

RF TEST REPORT

Applicant Positec Technology (China) Co., Ltd.

FCC ID 2ASC3NR102L

Product DC Residential Robotic Vacuum Cleaner

Model NR102; NR102.* ; NR102L; NR102L.*
(*=0-99, A-Z or M1-M9)

Report No. R2407A0865-R3V1

Issue Date August 26, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (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.	July 17, 2025
Rev.1	Updated information.	August 26, 2025
Note: This revised report (Report No.: R2407A0865-R3V1) supersedes and replaces the previously issued report (Report No.: R2407A0865-R3). 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
1	Average output power	Refer to the Module report (Report No.: GTS20191209006-2-25, FCC ID: AL6KBL-M8821CS1 Grant date: 01/06/2020).	
2	Occupied bandwidth		
3	Frequency stability		
4	Power spectral density		
5	Unwanted Emissions	15.407(b), 15.205, 15.209	PASS
6	Conducted Emissions	15.207	PASS
Date of Testing: December 4, 2024 ~ January 3, 2025 Date of Sample Received: July 11, 2024			
<p>Note: PASS: The EUT complies with the essential requirements in the standard.</p> <p>FAIL: The EUT does not comply with the essential requirements in the standard.</p> <p>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.</p>			

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 electromagnetic emissions measurements.

A2LA (Certificate Number: 3857.01)

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

1.3. Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Positec Technology (China) Co., Ltd.
Applicant address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China.
Manufacturer	Positec Technology (China) Co., Ltd.
Manufacturer address	18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P.R.China.

2.2. General information

EUT Description	
Model	NR102; NR102.* ; NR102L; NR102L.* (* = 0-99, A-Z or M1-M9)
Lab Internal SN	R2407A0865/S01
Hardware Version	MS311_A1_V0_4
Software Version	v2.1.60
Power Supply	Battery
Antenna Type	Internal Antenna
Antenna Connector	A permanently attached antenna (meet with the standard FCC Part 15.203 requirement)
Antenna Gain	2.0 dBi
Directional Gain	NA
Operating Frequency Range(s)	U-NII-1: 5150MHz-5250MHz U-NII-3: 5725MHz -5850MHz
Modulation Type	802.11a: OFDM 802.11n (HT20/HT40): OFDM 802.11ac (VHT20/VHT40/VHT80): OFDM
State voltage	18 VDC
EUT Accessory	
Battery	Manufacturer: Positec Technology (China) Co., Ltd. Model: NA0321
<p>Note:</p> <ol style="list-style-type: none"> The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. This device support automatically discontinue transmission, while the device is not transmitting any information, the device can automatically discontinue transmission and become standby mode for power saving. The device can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (a) Manufacturers implements security features in any digitally modulated devices capable of 	

operating in any of the U-NII bands, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software prevents the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device.

Manufacturers uses means including, but not limited to the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment authorization.

(b) Manufacturers take steps to ensure that DFS functionality cannot be disabled by the operator of the U-NII device.

4. The customer claims that the only difference between NR102, NR102.*, NR102L and NR102L.* (*=0-99, A-Z or M1-M9) are model and packaging. This report only test NR102.

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 15E (2024) Unlicensed National Information Infrastructure Devices

ANSI C63.10-2013

Reference standard:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

4. Test Configuration

Test Mode

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

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (X axis) 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.

The test software is used MTS8310 V2.0.0.0

Worst-case data rates are shown as following table.

Mode	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

5. Test Case Results

5.1. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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 radiated emissions measurements were made in a typical installation configuration.

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

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. 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.

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.

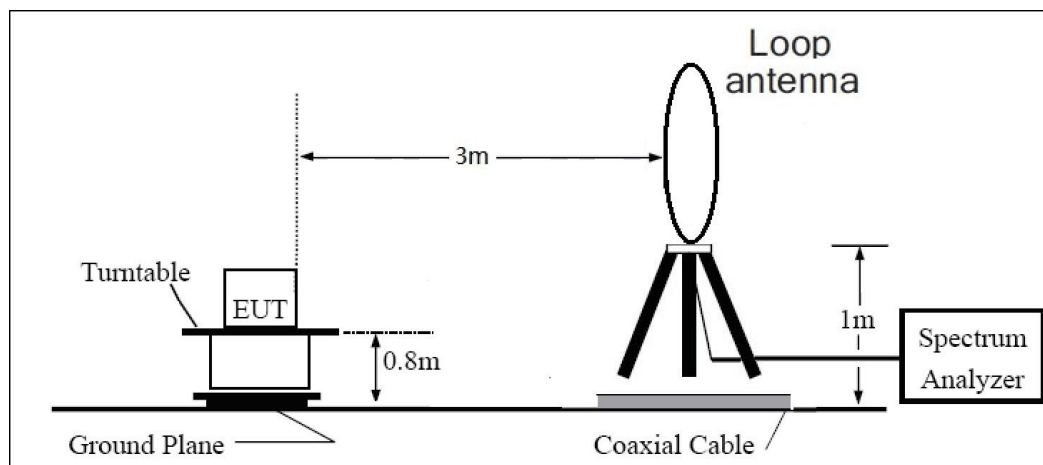
Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than $[1 / (\text{minimum transmitter on time})]$ and no less than 1 Hz.

The field strength of spurious 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 stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

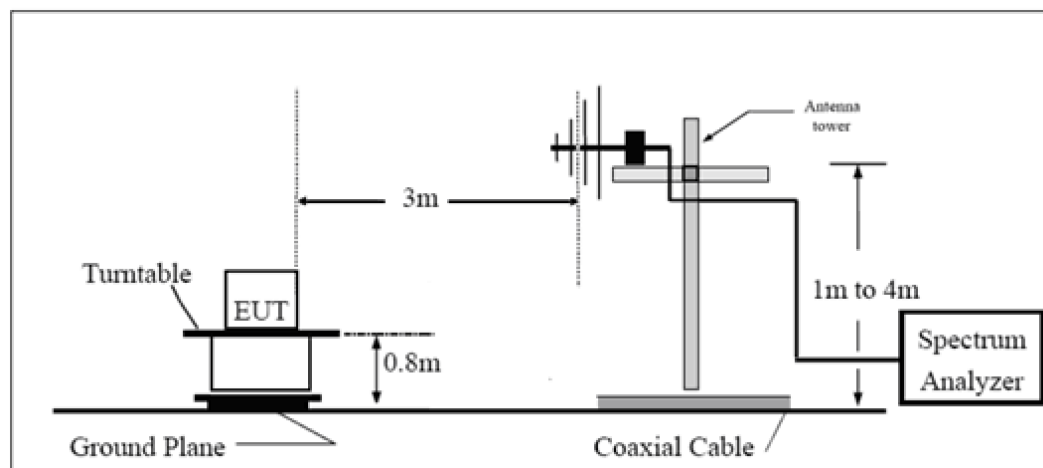
The test is in transmitting mode.

Test setup

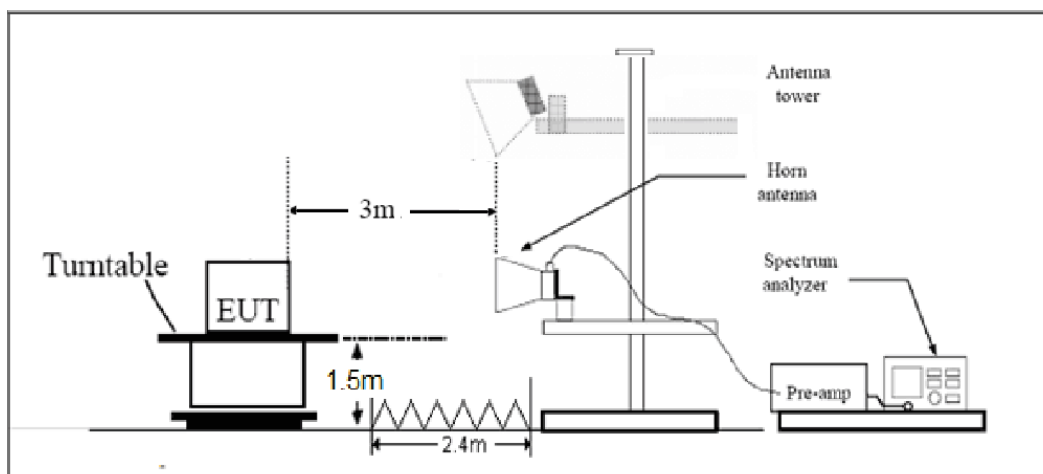
9kHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

- (1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

- (3) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBμV/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

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
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.

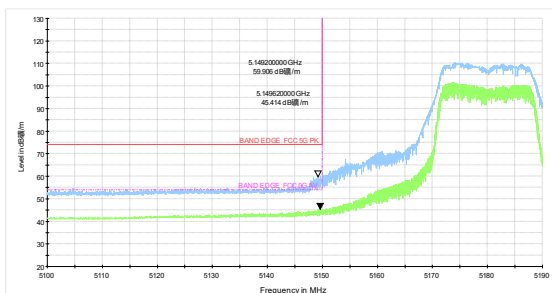
The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

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

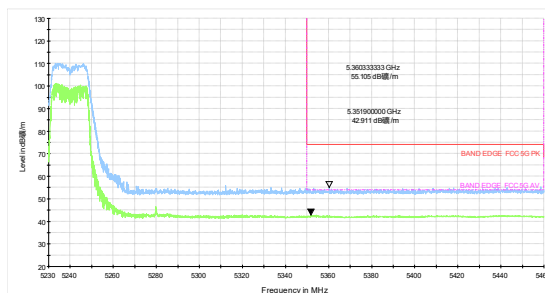
The signal beyond the limit is carrier.

U-NII-1

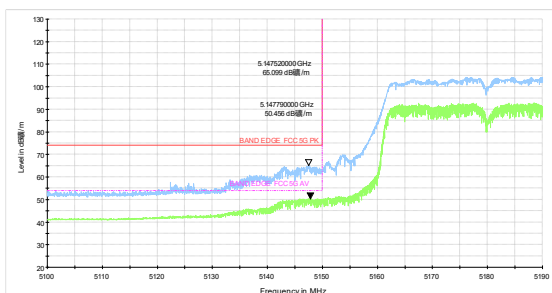
802.11a-Channel 36: Peak + Average



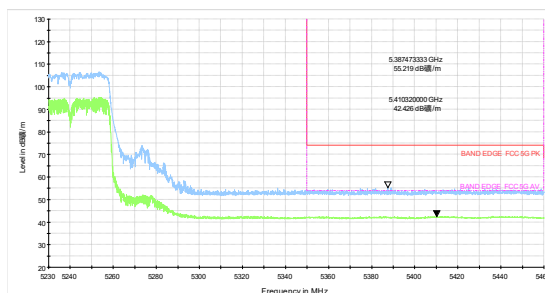
802.11a-Channel 48: Peak + Average



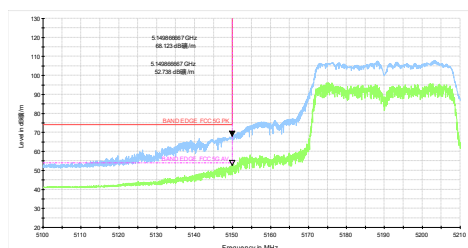
802.11n HT20-Channel 36: Peak + Average



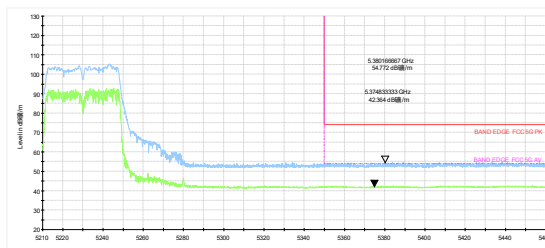
802.11n HT20-Channel 48: Peak + Average



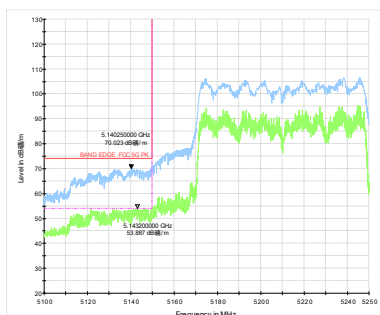
802.11ac VHT40-Channel 38: Peak + Average



802.11ac VHT40-Channel 46: Peak + Average

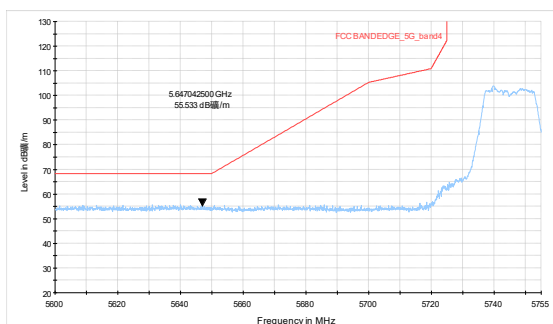


802.11ac VHT80 -Channel 42: Peak + Average

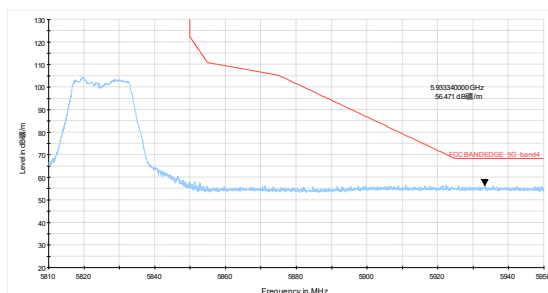


U-NII-3

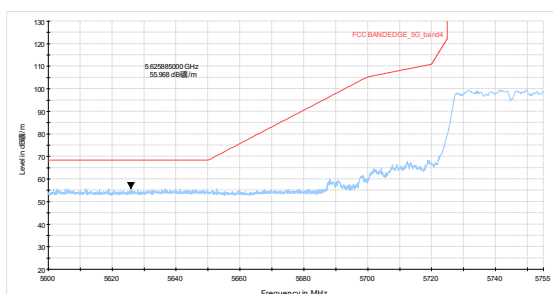
802.11a-Channel 149: Peak



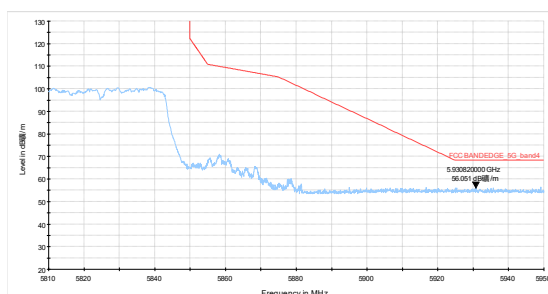
802.11a-Channel 165: Peak



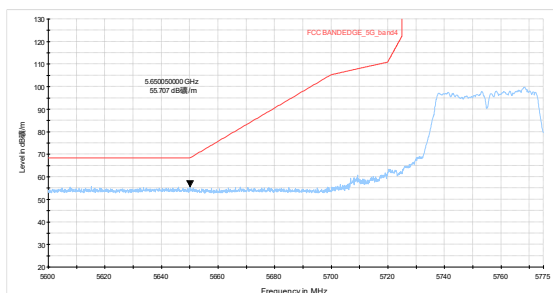
802.11ac VHT20-Channel 149: Peak



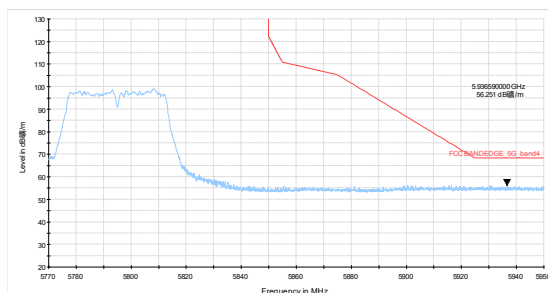
802.11ac VHT20-Channel 165: Peak



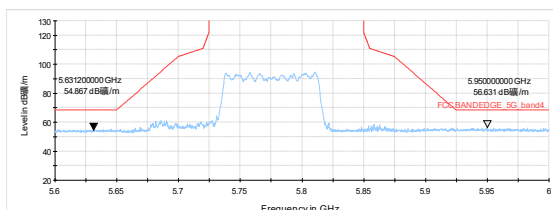
802.11ac VHT40-Channel 151: Peak



802.11ac VHT40-Channel 159: Peak



802.11ac VHT80- Channel 155: Peak



Result of RE

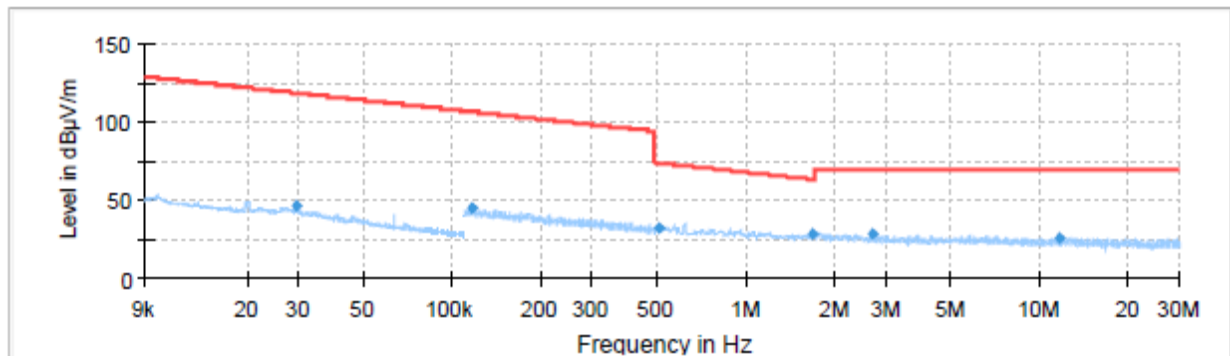
Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 26.5GHz-40GHz are more than 20dB below the limit are not reported.

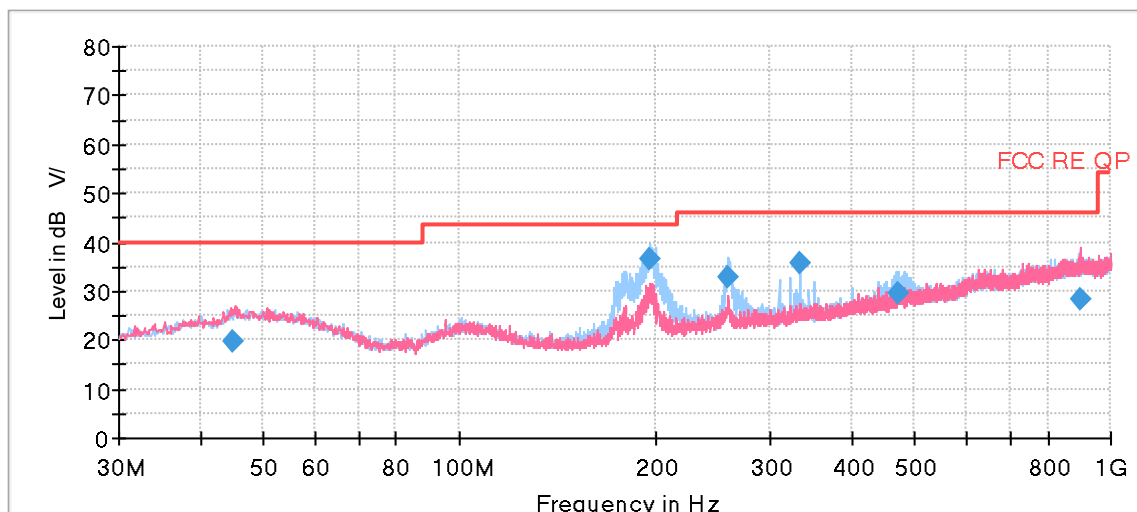
A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11ac (VHT80) CH155 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

Continuous TX mode:



Radiates Emission from 9kHz-30MHz



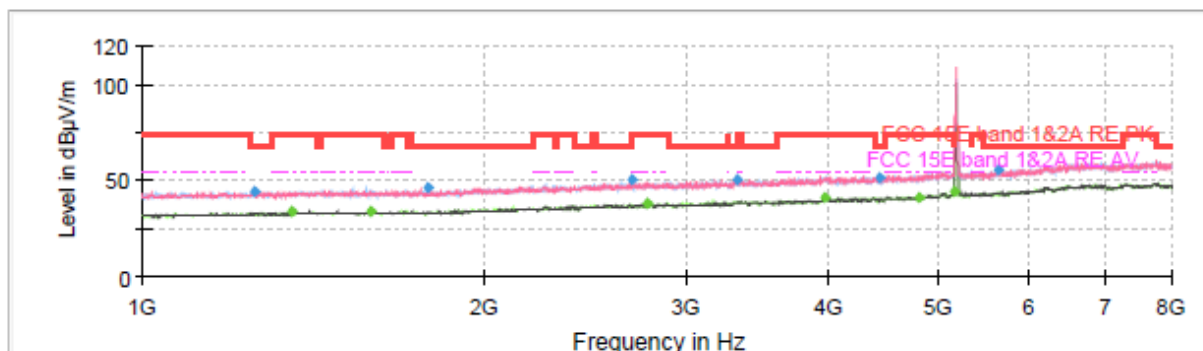
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
44.998750	19.63	40.00	20.37	208.0	V	135.0	20.9
196.031250	36.38	43.50	7.12	125.0	H	249.0	19.0
258.642500	32.83	46.00	13.17	100.0	H	230.0	20.2
332.721250	35.55	46.00	10.45	100.0	H	308.0	21.9
471.225000	29.57	46.00	16.43	184.0	H	111.0	24.4
896.128750	28.12	46.00	17.88	220.0	V	183.0	30.8

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

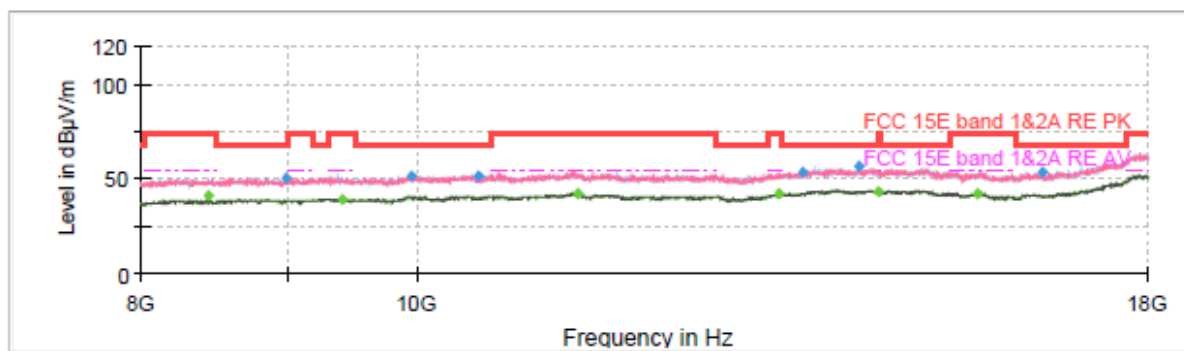
2. Margin = Limit – Quasi-Peak

802.11a CH36



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



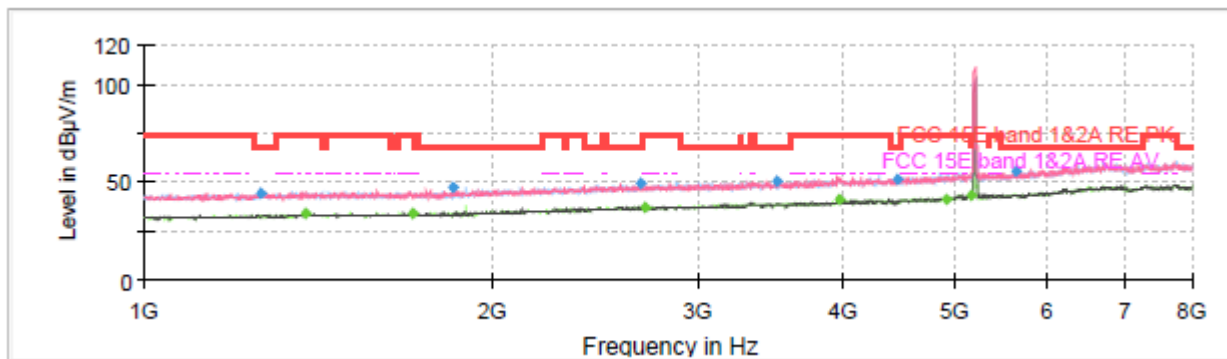
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1253.75	44.08	---	68.20	24.12	500.00	200.0	H	14.00	-4
1352.63	---	33.41	54.00	20.59	500.00	200.0	H	338.00	-3
1584.50	---	34.03	54.00	19.97	500.00	200.0	H	139.00	-2
1780.50	45.92	---	68.20	22.28	500.00	200.0	V	108.00	-2
2684.38	50.11	---	68.20	18.09	500.00	200.0	V	245.00	2
2774.50	---	37.54	54.00	16.46	500.00	200.0	H	0.00	3
3322.25	50.45	---	68.20	17.75	500.00	200.0	H	42.00	4
3967.13	---	40.65	54.00	13.35	500.00	200.0	H	2.00	7
4430.88	51.45	---	68.20	16.75	500.00	200.0	V	0.00	7
4794.88	---	41.32	54.00	12.68	500.00	200.0	V	317.00	8
5148.38	---	43.99	54.00	10.01	500.00	200.0	V	95.00	10
5646.25	55.37	---	68.20	12.83	500.00	200.0	H	0.00	11

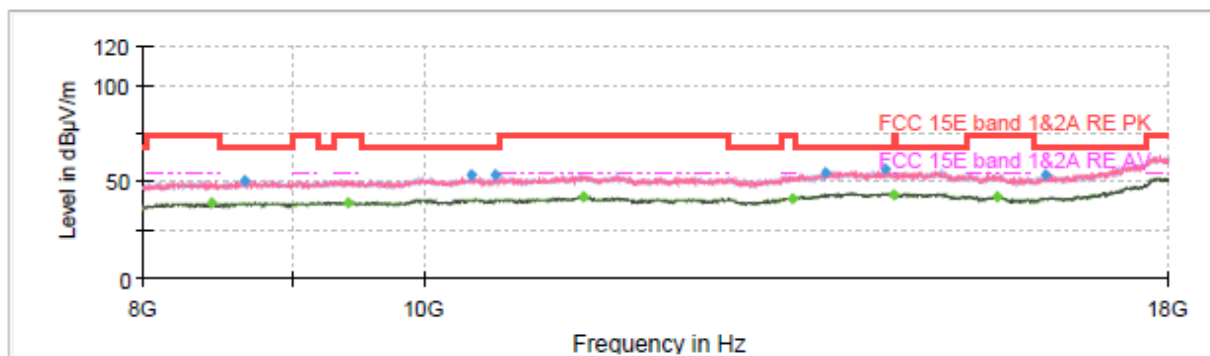
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH40



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



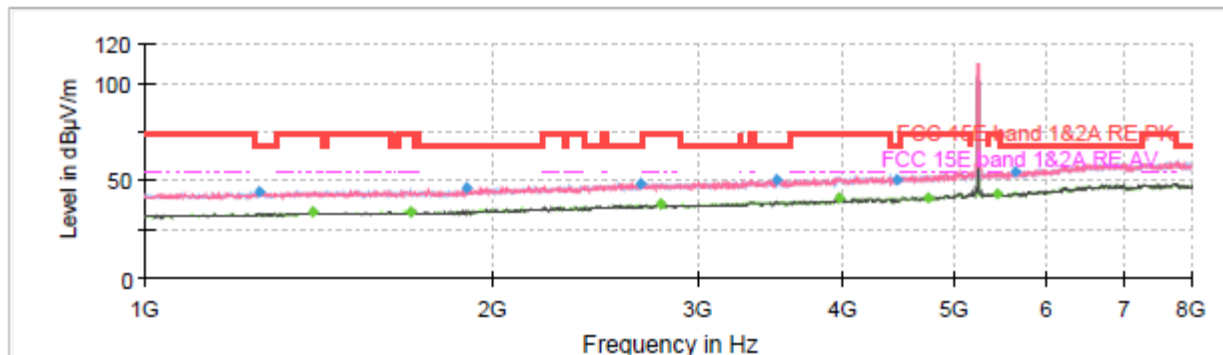
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1261.63	44.44	---	68.20	23.76	500.00	200.0	V	333.00	-4
1377.13	---	33.65	54.00	20.35	500.00	200.0	H	328.00	-3
1700.88	---	33.90	54.00	20.10	500.00	200.0	V	0.00	-2
1844.38	47.63	---	68.20	20.57	500.00	200.0	V	170.00	-1
2677.38	48.72	---	68.20	19.48	500.00	200.0	V	256.00	2
2694.88	---	37.37	54.00	16.63	500.00	200.0	H	253.00	3
3510.38	50.07	---	68.20	18.13	500.00	200.0	H	79.00	4
3966.25	---	40.78	54.00	13.22	500.00	200.0	V	57.00	7
4447.50	51.34	---	68.20	16.86	500.00	200.0	V	344.00	7
4911.25	---	41.38	54.00	12.62	500.00	200.0	V	32.00	9
5149.25	---	43.28	54.00	10.72	500.00	200.0	V	106.00	10
5637.50	55.35	---	68.20	12.85	500.00	200.0	V	194.00	11

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

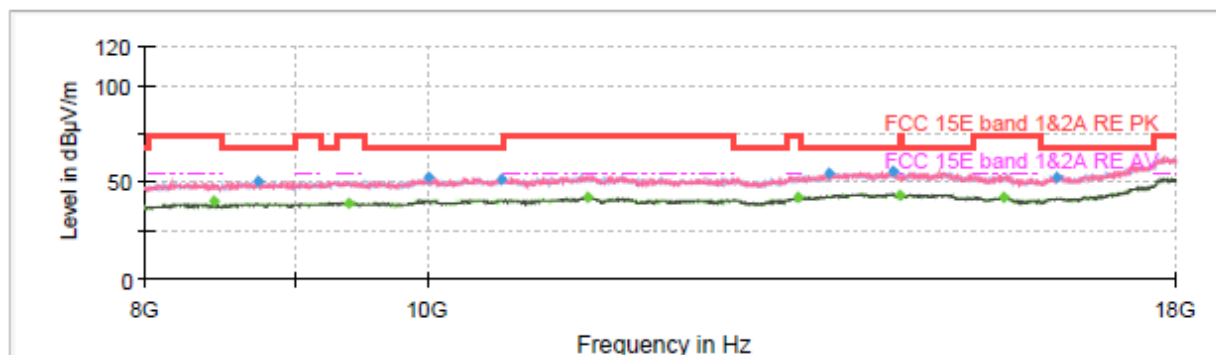
2. Margin = Limit –MAX Peak/ Average

802.11a CH48



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



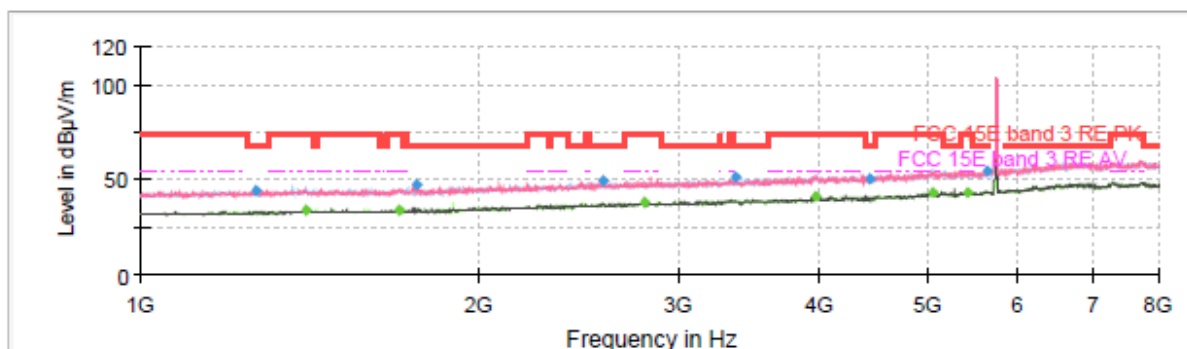
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1255.50	43.94	---	68.20	24.26	500.00	200.0	H	51.00	-4
1392.88	---	33.60	54.00	20.40	500.00	200.0	H	6.00	-3
1697.38	---	33.74	54.00	20.26	500.00	200.0	H	1.00	-2
1894.25	45.95	---	68.20	22.25	500.00	200.0	V	88.00	-1
2674.75	48.57	---	68.20	19.63	500.00	200.0	V	0.00	2
2778.88	---	37.46	54.00	16.54	500.00	200.0	V	332.00	3
3512.13	50.51	---	68.20	17.69	500.00	200.0	V	6.00	4
3967.13	---	40.94	54.00	13.06	500.00	200.0	V	355.00	7
4451.00	50.20	---	68.20	18.00	500.00	200.0	H	265.00	7
4731.88	---	40.79	54.00	13.21	500.00	200.0	H	0.00	8
5445.00	---	43.21	54.00	10.79	500.00	200.0	H	291.00	10
5645.38	54.80	---	68.20	13.40	500.00	200.0	V	339.00	11

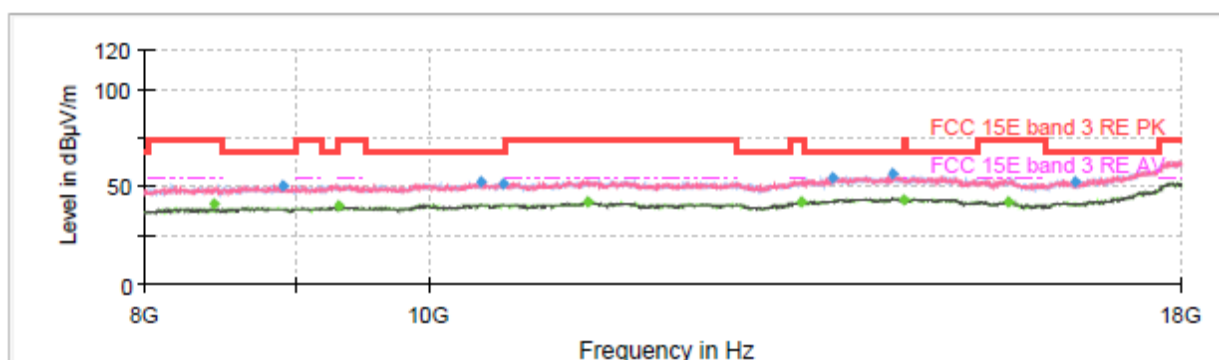
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11a CH149



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz

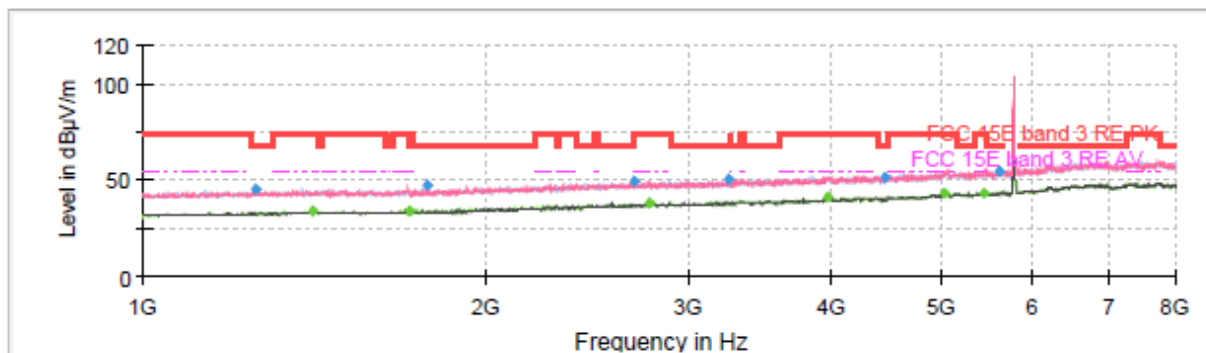


Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1264.25	44.20	---	68.20	24.00	500.00	200.0	V	345.00	-4
1403.38	---	33.56	54.00	20.44	500.00	200.0	H	22.00	-3
1693.88	---	33.79	54.00	20.21	500.00	200.0	H	119.00	-2
1757.75	47.43	---	68.20	20.77	500.00	200.0	V	5.00	-2
2571.50	48.99	---	68.20	19.21	500.00	200.0	V	359.00	3
2794.63	---	37.55	54.00	16.45	500.00	200.0	H	109.00	3
3374.75	50.97	---	68.20	17.23	500.00	200.0	H	29.00	4
3968.88	---	40.89	54.00	13.11	500.00	200.0	H	8.00	7
4436.13	50.64	---	68.20	17.56	500.00	200.0	V	318.00	7
5044.25	---	43.04	54.00	10.96	500.00	200.0	V	0.00	11
5411.75	---	43.13	54.00	10.87	500.00	200.0	H	119.00	10
5633.13	54.74	---	68.20	13.46	500.00	200.0	V	357.00	11

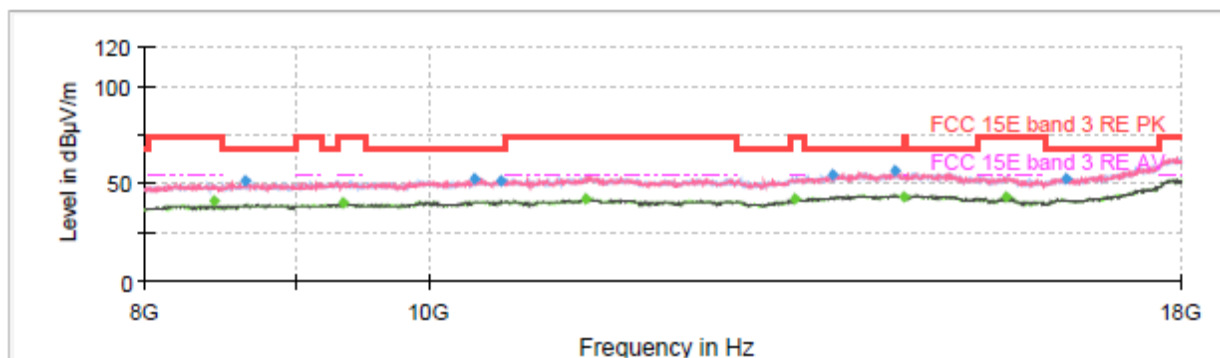
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



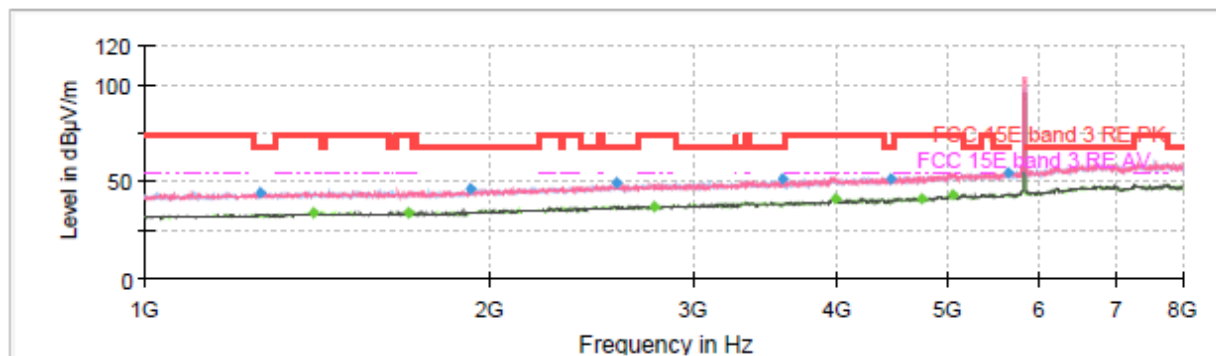
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1254.63	44.65	---	68.20	23.55	500.00	200.0	V	352.00	-4
1404.25	---	33.62	54.00	20.38	500.00	200.0	H	115.00	-3
1707.88	---	33.84	54.00	20.16	500.00	200.0	V	262.00	-2
1769.13	47.06	---	68.20	21.14	500.00	200.0	H	178.00	-2
2687.88	48.94	---	68.20	19.26	500.00	200.0	V	0.00	2
2776.25	---	37.59	54.00	16.41	500.00	200.0	H	5.00	3
3248.75	50.73	---	68.20	17.47	500.00	200.0	H	189.00	4
3964.50	---	40.65	54.00	13.35	500.00	200.0	H	14.00	6
4451.00	51.48	---	68.20	16.72	500.00	200.0	H	72.00	7
5031.13	---	42.59	54.00	11.41	500.00	200.0	H	297.00	10
5438.00	---	43.37	54.00	10.63	500.00	200.0	H	7.00	10
5615.63	54.53	---	68.20	13.67	500.00	200.0	V	283.00	11

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

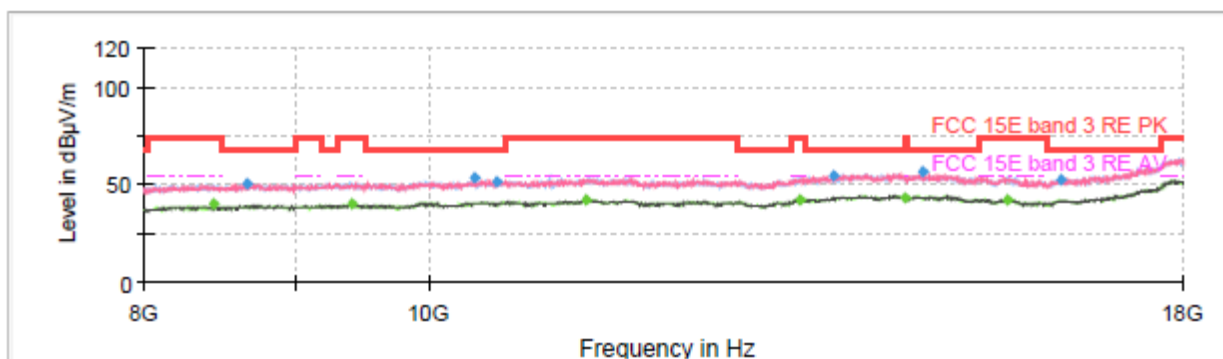
2. Margin = Limit –MAX Peak/ Average

802.11a CH165



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



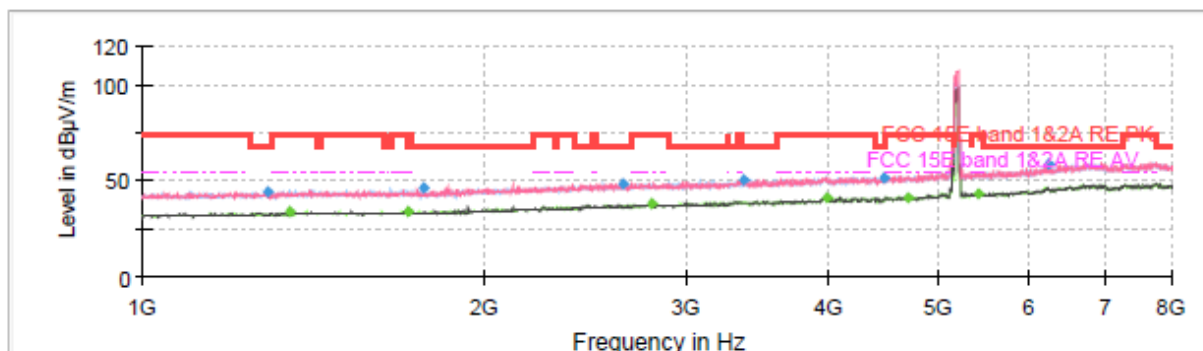
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1261.63	44.40	---	68.20	23.80	500.00	200.0	H	122.00	-4
1399.88	---	33.52	54.00	20.48	500.00	200.0	V	358.00	-3
1693.88	---	33.83	54.00	20.17	500.00	200.0	H	101.00	-2
1919.63	46.62	---	68.20	21.58	500.00	200.0	V	306.00	-1
2574.13	49.05	---	68.20	19.15	500.00	200.0	H	155.00	3
2778.00	---	37.43	54.00	16.57	500.00	200.0	V	0.00	3
3590.88	50.88	---	68.20	17.32	500.00	200.0	V	353.00	4
3980.25	---	40.70	54.00	13.30	500.00	200.0	V	243.00	7
4452.75	50.97	---	68.20	17.23	500.00	200.0	V	212.00	7
4738.00	---	40.81	54.00	13.19	500.00	200.0	V	332.00	8
5055.63	---	43.22	54.00	10.78	500.00	200.0	V	353.00	10
5626.13	54.57	---	68.20	13.63	500.00	200.0	H	24.00	11

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

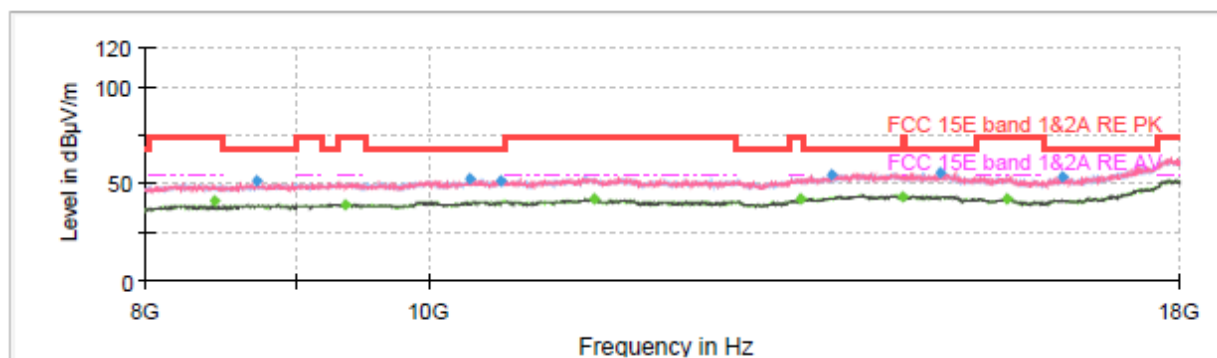
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH36



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



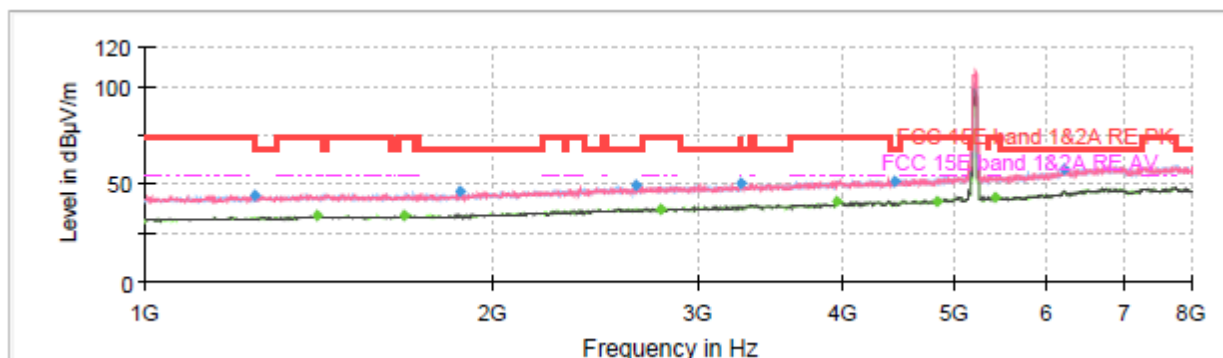
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1288.75	43.91	---	68.20	24.29	500.00	200.0	V	253.00	-4
1344.75	---	33.63	54.00	20.37	500.00	200.0	H	165.00	-3
1709.63	---	33.66	54.00	20.34	500.00	200.0	H	91.00	-2
1760.38	46.21	---	68.20	21.99	500.00	200.0	H	345.00	-2
2638.00	48.53	---	68.20	19.67	500.00	200.0	V	253.00	2
2800.75	---	37.56	54.00	16.44	500.00	200.0	H	224.00	3
3370.38	50.26	---	68.20	17.94	500.00	200.0	H	356.00	4
3981.13	---	40.80	54.00	13.20	500.00	200.0	H	62.00	6
4469.38	51.70	---	68.20	16.50	500.00	200.0	H	358.00	7
4696.88	---	41.07	54.00	12.93	500.00	200.0	V	6.00	8
5409.13	---	42.81	54.00	11.19	500.00	200.0	V	283.00	10
6228.13	58.79	---	68.20	9.41	500.00	200.0	H	306.00	14

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

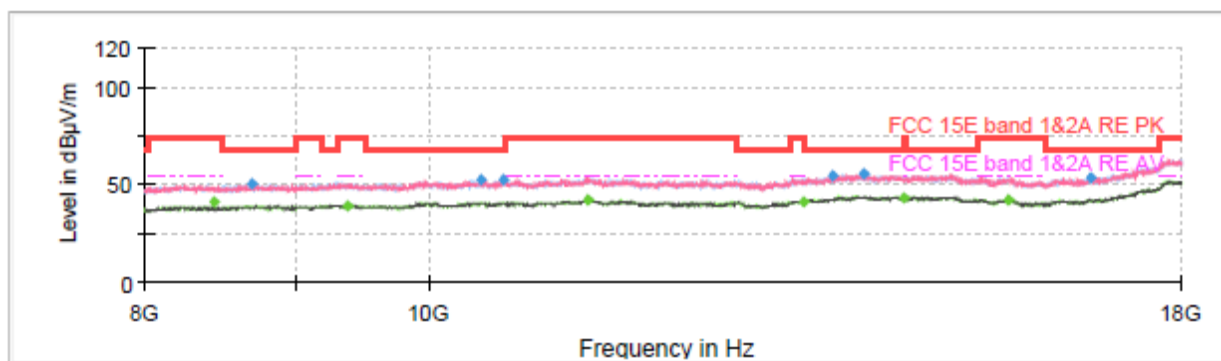
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH40



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



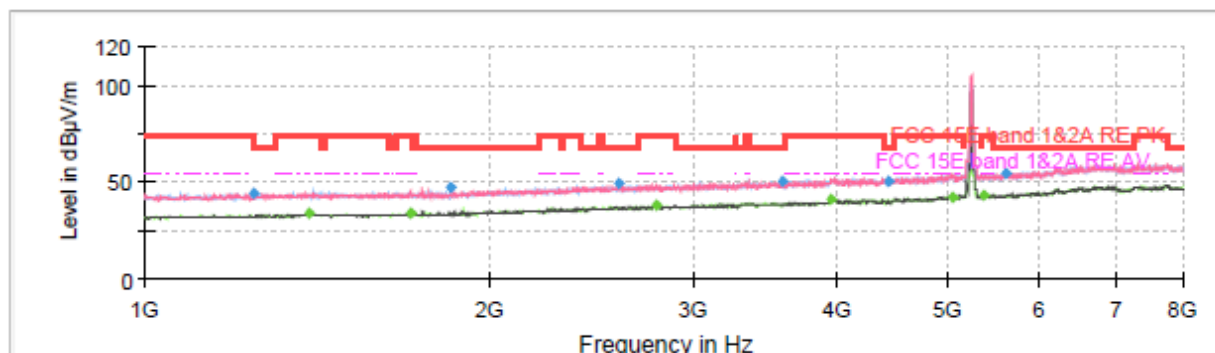
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1241.50	44.20	---	68.20	24.00	500.00	200.0	H	194.00	-4
1406.00	---	33.51	54.00	20.49	500.00	200.0	H	357.00	-3
1669.38	---	33.70	54.00	20.30	500.00	200.0	V	43.00	-2
1864.50	45.84	---	68.20	22.36	500.00	200.0	H	164.00	-1
2646.75	49.12	---	68.20	19.08	500.00	200.0	H	2.00	2
2786.75	---	37.35	54.00	16.65	500.00	200.0	H	0.00	3
3273.25	50.22	---	68.20	17.98	500.00	200.0	V	211.00	4
3958.38	---	40.65	54.00	13.35	500.00	200.0	H	293.00	6
4432.63	51.20	---	68.20	17.00	500.00	200.0	H	0.00	7
4816.75	---	41.34	54.00	12.66	500.00	200.0	V	66.00	8
5407.38	---	42.86	54.00	11.14	500.00	200.0	V	123.00	10
6226.38	57.11	---	68.20	11.09	500.00	200.0	V	79.00	14

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

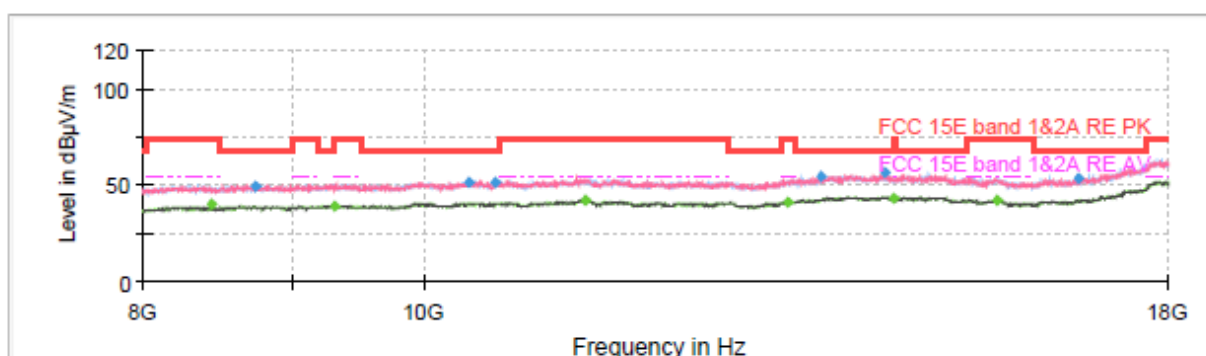
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH48



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



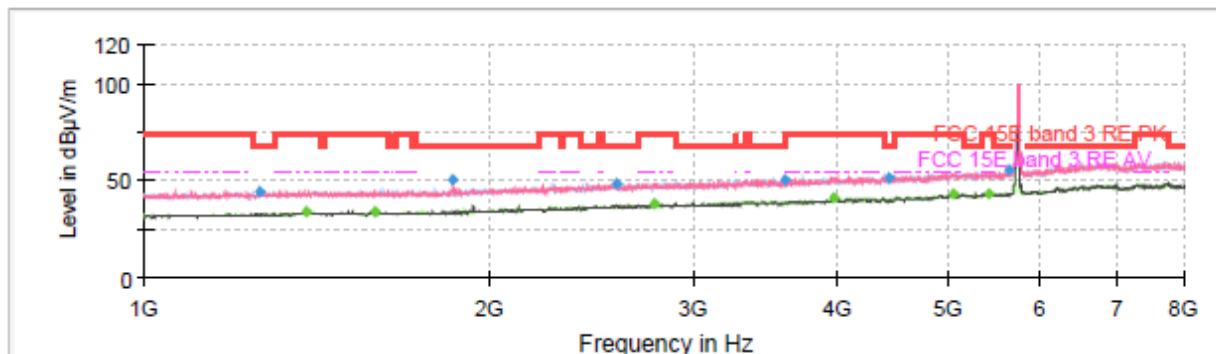
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1245.00	44.58	---	68.20	23.62	500.00	200.0	V	110.00	-4
1387.63	---	33.38	54.00	20.62	500.00	200.0	H	341.00	-3
1699.13	---	33.94	54.00	20.06	500.00	200.0	V	80.00	-2
1843.50	47.67	---	68.20	20.53	500.00	200.0	V	5.00	-1
2588.13	48.93	---	68.20	19.27	500.00	200.0	H	207.00	2
2781.50	---	37.61	54.00	16.39	500.00	200.0	H	346.00	3
3590.88	50.02	---	68.20	18.18	500.00	200.0	H	207.00	4
3959.25	---	40.79	54.00	13.21	500.00	200.0	V	5.00	6
4436.13	50.56	---	68.20	17.65	500.00	200.0	H	46.00	7
5037.25	---	42.12	54.00	11.88	500.00	200.0	V	274.00	10
5361.00	---	43.17	54.00	10.83	500.00	200.0	V	346.00	10
5614.75	54.79	---	68.20	13.41	500.00	200.0	V	53.00	11

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

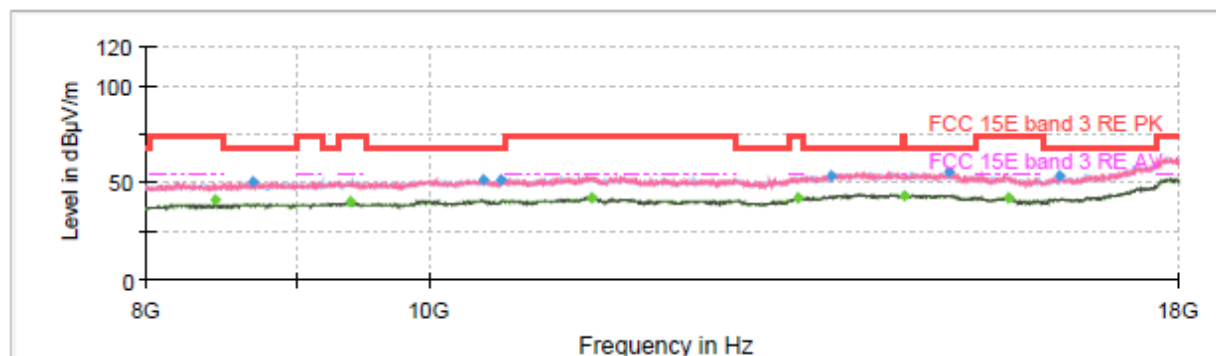
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH149



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



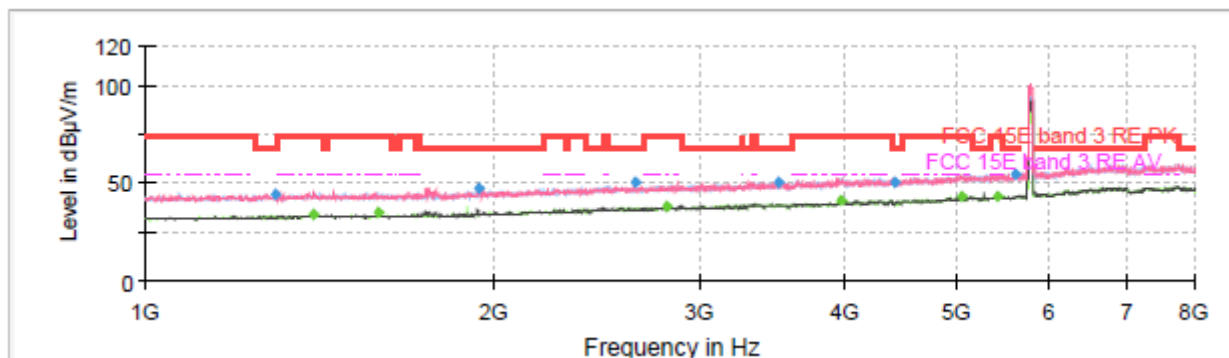
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1259.88	44.21	---	68.20	23.99	500.00	200.0	H	344.00	-4
1379.75	---	33.44	54.00	20.56	500.00	200.0	H	234.00	-3
1583.63	---	34.23	54.00	19.77	500.00	200.0	H	234.00	-2
1854.88	50.35	---	68.20	17.85	500.00	200.0	V	0.00	-1
2568.00	48.54	---	68.20	19.66	500.00	200.0	H	312.00	3
2777.13	---	37.65	54.00	16.35	500.00	200.0	V	20.00	3
3598.75	50.45	---	68.20	17.75	500.00	200.0	V	5.00	4
3974.13	---	40.72	54.00	13.28	500.00	200.0	V	124.00	7
4440.50	51.32	---	68.20	16.88	500.00	200.0	V	197.00	7
5042.50	---	42.91	54.00	11.09	500.00	200.0	H	301.00	11
5413.50	---	43.04	54.00	10.97	500.00	200.0	H	248.00	10
5626.13	55.81	---	68.20	12.39	500.00	200.0	V	79.00	11

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

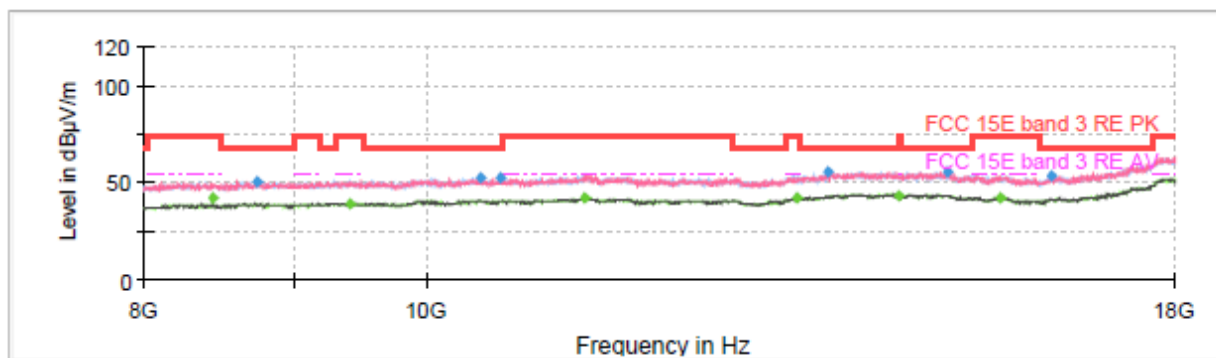
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH157



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



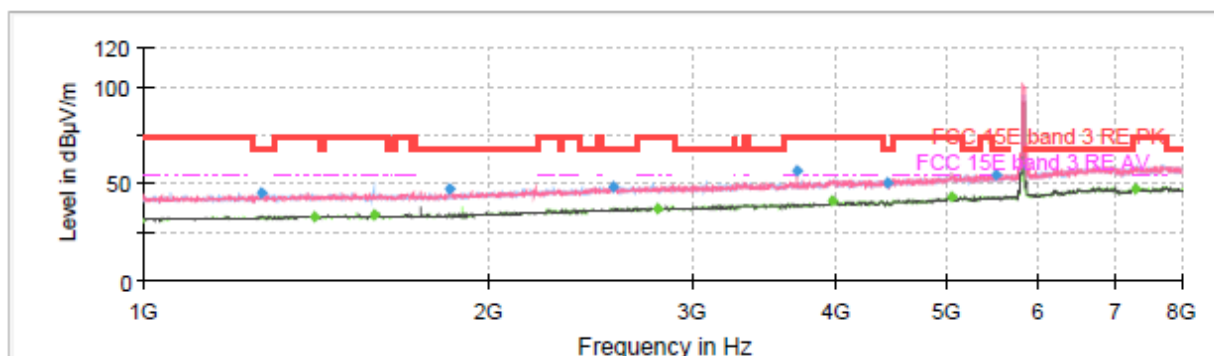
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1293.13	43.93	---	68.20	24.27	500.00	200.0	H	344.00	-4
1395.50	---	33.47	54.00	20.53	500.00	200.0	H	352.00	-3
1583.63	---	34.63	54.00	19.37	500.00	200.0	H	293.00	-2
1931.88	47.04	---	68.20	21.16	500.00	200.0	V	1.00	0
2639.75	49.92	---	68.20	18.28	500.00	200.0	V	3.00	2
2804.25	---	38.00	54.00	16.00	500.00	200.0	V	0.00	3
3504.25	50.26	---	68.20	17.94	500.00	200.0	V	3.00	4
3968.88	---	40.79	54.00	13.21	500.00	200.0	V	35.00	7
4423.88	50.76	---	68.20	17.44	500.00	200.0	H	104.00	7
5034.63	---	43.05	54.00	10.95	500.00	200.0	V	0.00	10
5422.25	---	42.85	54.00	11.15	500.00	200.0	V	65.00	10
5617.38	54.64	---	68.20	13.56	500.00	200.0	H	60.00	11

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

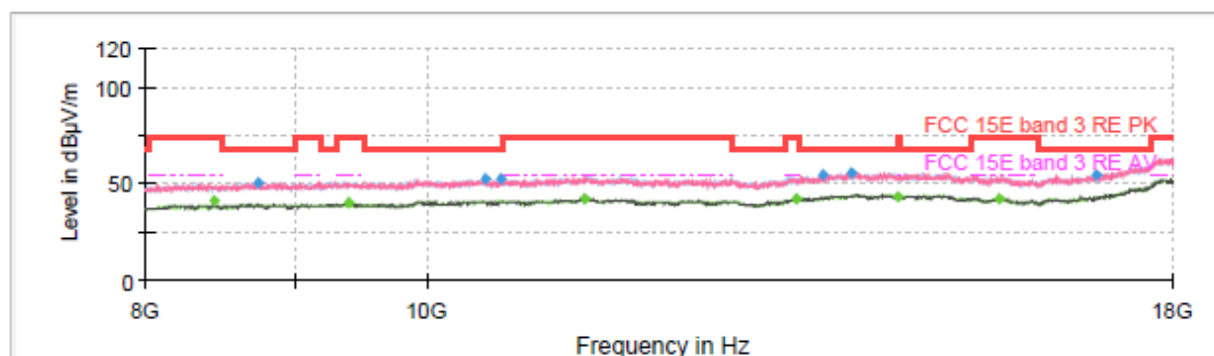
2. Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH165



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



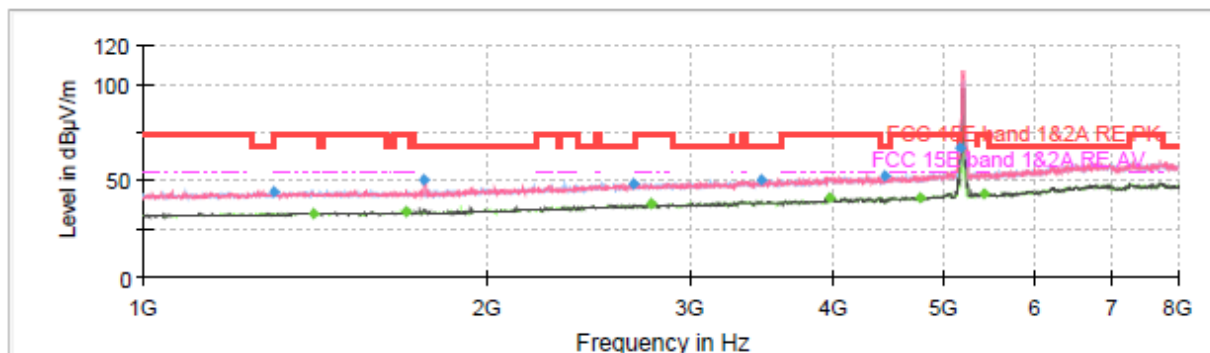
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1264.25	44.80	---	68.20	23.40	500.00	200.0	V	14.00	-4
1404.25	---	33.32	54.00	20.68	500.00	200.0	V	339.00	-3
1582.75	---	33.79	54.00	20.21	500.00	200.0	H	305.00	-2
1847.00	47.17	---	68.20	21.03	500.00	200.0	V	5.00	-1
2555.75	48.40	---	68.20	19.80	500.00	200.0	V	0.00	3
2801.63	---	37.36	54.00	16.64	500.00	200.0	H	78.00	3
3700.25	56.49	---	74.00	17.51	500.00	200.0	V	0.00	5
3969.75	---	40.93	54.00	13.07	500.00	200.0	H	348.00	7
4443.13	49.83	---	68.20	18.37	500.00	200.0	H	48.00	7
5041.63	---	43.08	54.00	10.92	500.00	200.0	V	14.00	11
5517.63	54.84	---	68.20	13.36	500.00	200.0	V	25.00	10
7288.63	---	47.53	54.00	6.47	500.00	200.0	H	359.00	16

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

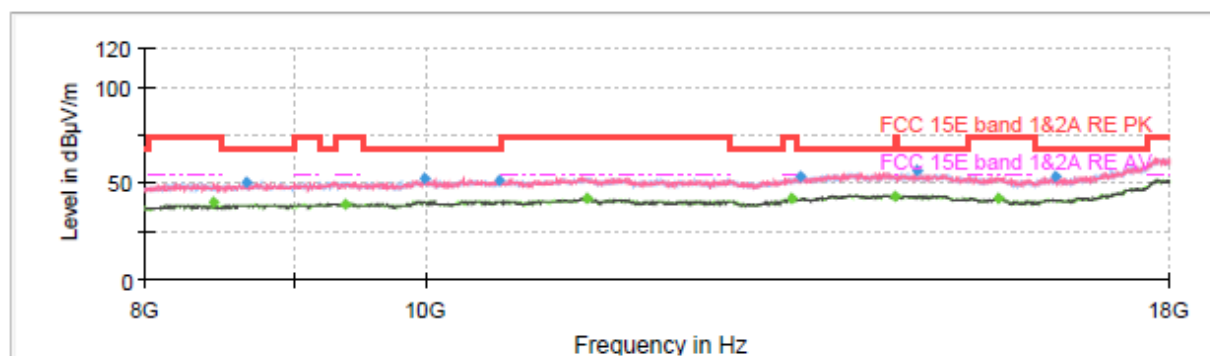
2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT40) CH38



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



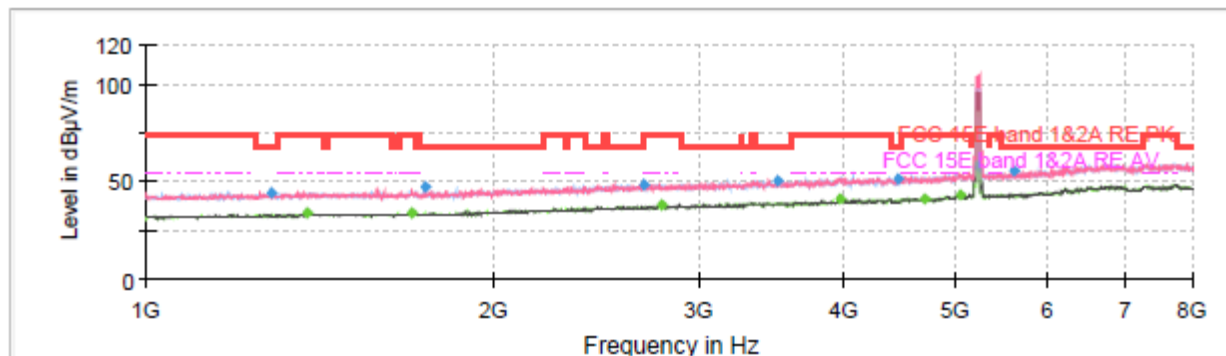
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1296.63	43.86	---	68.20	24.34	500.00	200.0	H	325.00	-4
1406.00	---	33.29	54.00	20.71	500.00	200.0	V	28.00	-3
1696.50	---	33.73	54.00	20.27	500.00	200.0	V	96.00	-2
1759.50	50.00	---	68.20	18.20	500.00	200.0	V	246.00	-2
2680.00	48.15	---	68.20	20.05	500.00	200.0	H	344.00	2
2778.00	---	37.55	54.00	16.45	500.00	200.0	V	96.00	3
3464.00	50.37	---	68.20	17.83	500.00	200.0	H	118.00	4
3964.50	---	40.95	54.00	13.05	500.00	200.0	H	359.00	6
4432.63	51.95	---	68.20	16.25	500.00	200.0	V	338.00	7
4759.88	---	40.79	54.00	13.21	500.00	200.0	H	344.00	8
5148.38	66.26	---	74.00	7.74	500.00	200.0	V	300.00	10
5421.38	---	42.74	54.00	11.26	500.00	200.0	V	300.00	10

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

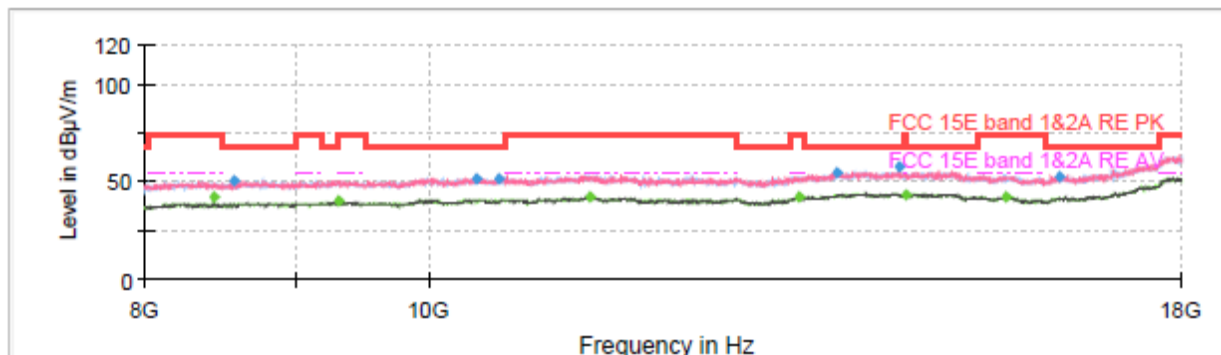
2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT40) CH46



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



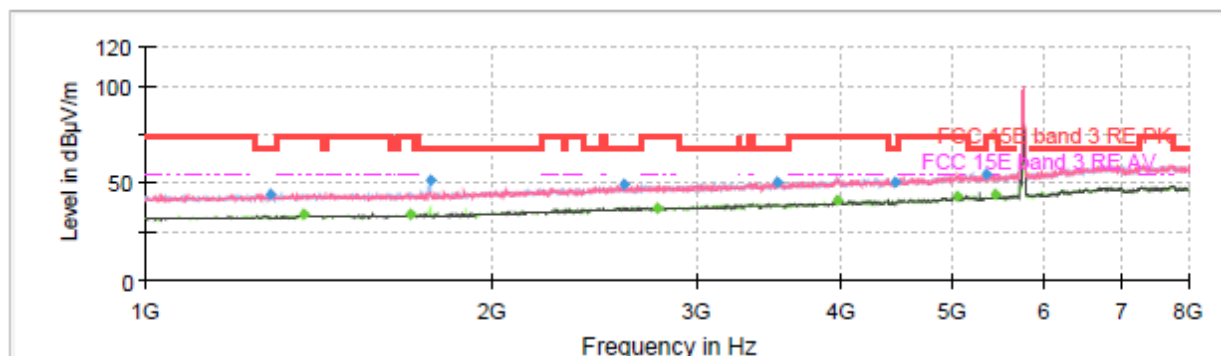
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1284.38	43.79	---	68.20	24.41	500.00	200.0	H	350.00	-4
1375.38	---	33.34	54.00	20.66	500.00	200.0	H	346.00	-3
1695.63	---	33.59	54.00	20.41	500.00	200.0	H	259.00	-2
1742.00	46.99	---	68.20	21.21	500.00	200.0	V	301.00	-2
2682.63	48.15	---	68.20	20.05	500.00	200.0	V	42.00	2
2782.38	---	37.44	54.00	16.56	500.00	200.0	V	114.00	3
3509.50	50.76	---	68.20	17.44	500.00	200.0	H	355.00	4
3968.00	---	41.02	54.00	12.98	500.00	200.0	V	0.00	7
4451.88	51.50	---	68.20	16.70	500.00	200.0	V	0.00	7
4701.25	---	40.83	54.00	13.17	500.00	200.0	H	259.00	8
5045.13	---	42.94	54.00	11.06	500.00	200.0	V	42.00	10
5604.25	54.92	---	68.20	13.28	500.00	200.0	V	0.00	11

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

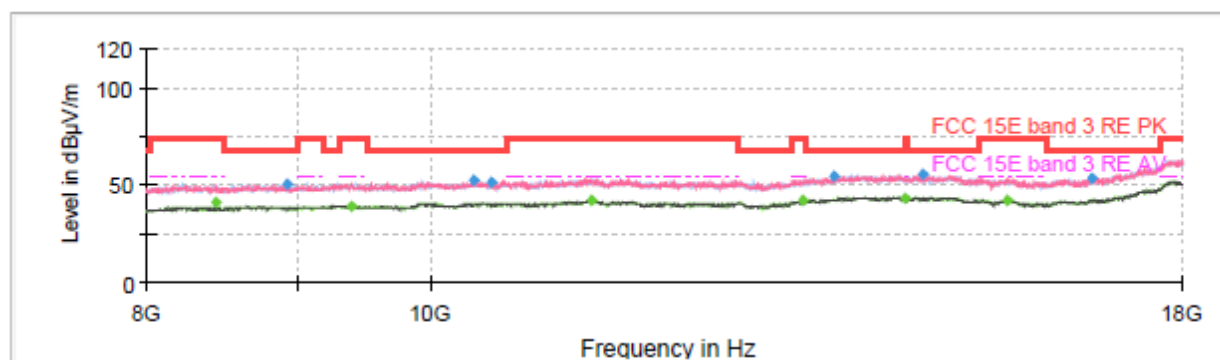
2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT40) CH151



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



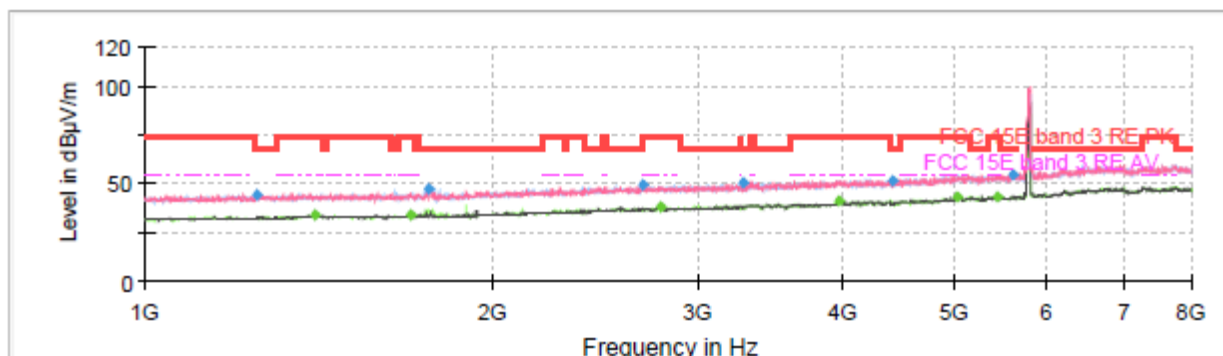
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1280.00	43.70	---	68.20	24.50	500.00	200.0	H	1.00	-4
1370.13	---	33.45	54.00	20.55	500.00	200.0	V	107.00	-3
1695.63	---	33.60	54.00	20.40	500.00	200.0	V	0.00	-2
1763.00	51.63	---	68.20	16.57	500.00	200.0	H	351.00	-2
2599.50	48.86	---	68.20	19.34	500.00	200.0	H	262.00	2
2771.00	---	37.28	54.00	16.72	500.00	200.0	V	122.00	3
3519.13	50.34	---	68.20	17.86	500.00	200.0	V	354.00	4
3970.63	---	40.92	54.00	13.08	500.00	200.0	V	6.00	7
4453.63	50.70	---	68.20	17.50	500.00	200.0	H	343.00	7
5040.75	---	43.21	54.00	10.79	500.00	200.0	H	330.00	11
5336.50	54.57	---	68.20	13.63	500.00	200.0	H	358.00	10
5432.75	---	43.60	54.00	10.40	500.00	200.0	H	275.00	10

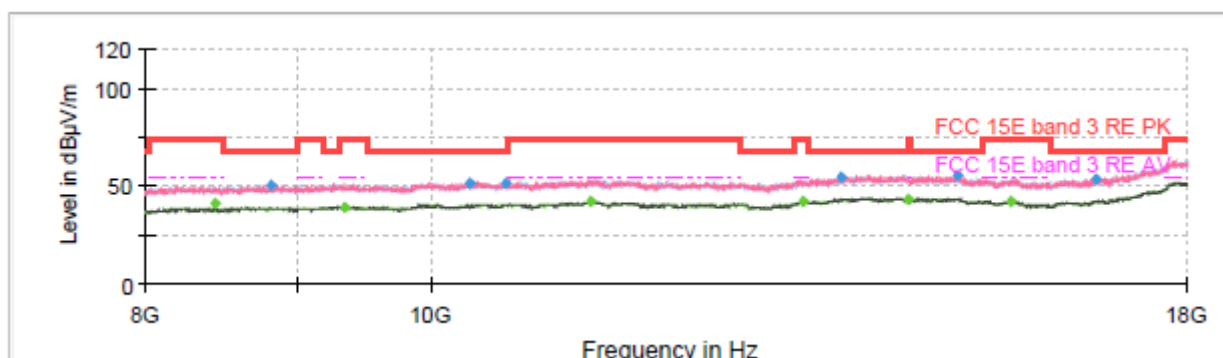
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT40) CH159



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 8GHz



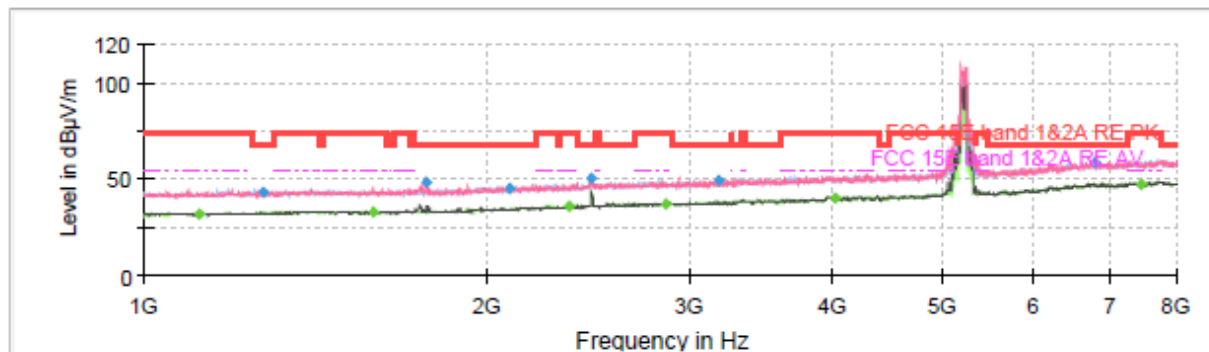
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1248.50	43.65	---	68.20	24.55	500.00	200.0	V	8.00	-4
1402.50	---	33.51	54.00	20.49	500.00	200.0	V	211.00	-3
1695.63	---	33.91	54.00	20.09	500.00	200.0	H	347.00	-2
1756.88	47.44	---	68.20	20.76	500.00	200.0	H	347.00	-2
2682.63	49.05	---	68.20	19.15	500.00	200.0	H	0.00	2
2781.50	---	37.53	54.00	16.47	500.00	200.0	V	36.00	3
3274.13	50.68	---	68.20	17.52	500.00	200.0	V	257.00	4
3966.25	---	41.05	54.00	12.95	500.00	200.0	H	0.00	7
4408.13	51.03	---	68.20	17.17	500.00	200.0	V	0.00	7
5028.50	---	42.72	54.00	11.28	500.00	200.0	H	194.00	10
5437.13	---	43.12	54.00	10.88	500.00	200.0	H	0.00	10
5611.25	54.49	---	68.20	13.71	500.00	200.0	V	68.00	11

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

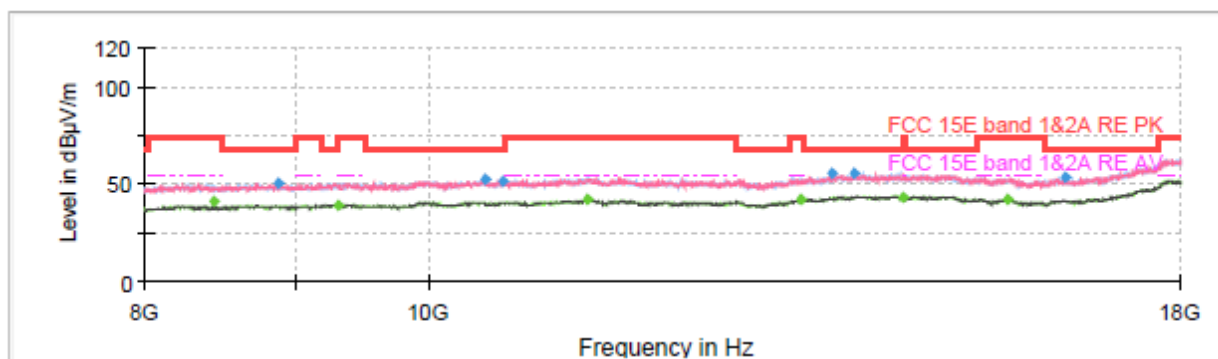
2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT80) CH42



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



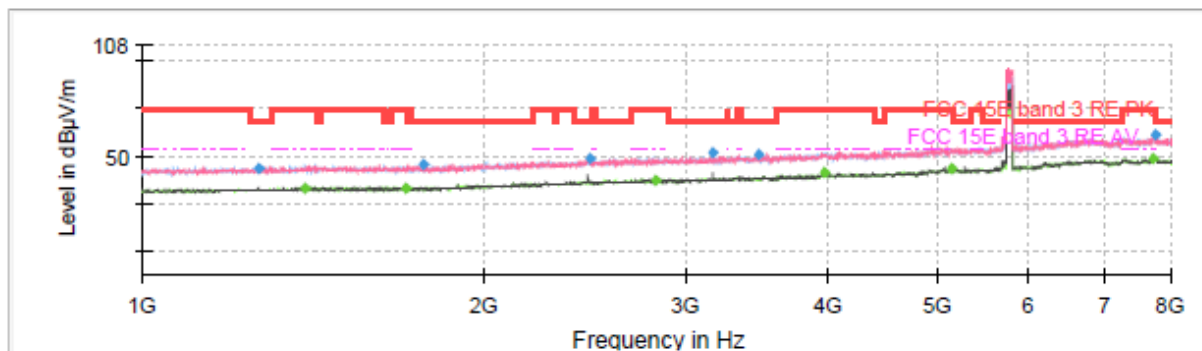
Radiates Emission from 8GHz to 18GHz

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)
1119.00	---	31.98	54.00	22.02	200.0	H	358.00	-5
1273.00	42.85	---	68.20	25.35	200.0	H	355.00	-4
1588.00	---	32.70	54.00	21.30	200.0	H	145.00	-2
1767.38	48.54	---	68.20	19.66	200.0	V	300.00	-2
2088.50	45.60	---	68.20	22.60	200.0	V	1.00	0
2349.25	---	35.54	54.00	18.46	200.0	V	100.00	1
2463.88	50.48	---	68.20	17.72	200.0	H	188.00	2
2863.75	---	36.78	54.00	17.22	200.0	H	160.00	3
3187.50	49.13	---	68.20	19.07	200.0	H	0.00	4
4028.38	---	39.71	54.00	14.29	200.0	H	0.00	6
6782.88	58.79	---	68.20	9.41	200.0	V	86.00	15
7436.50	---	47.58	54.00	6.42	200.0	V	0.00	16

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

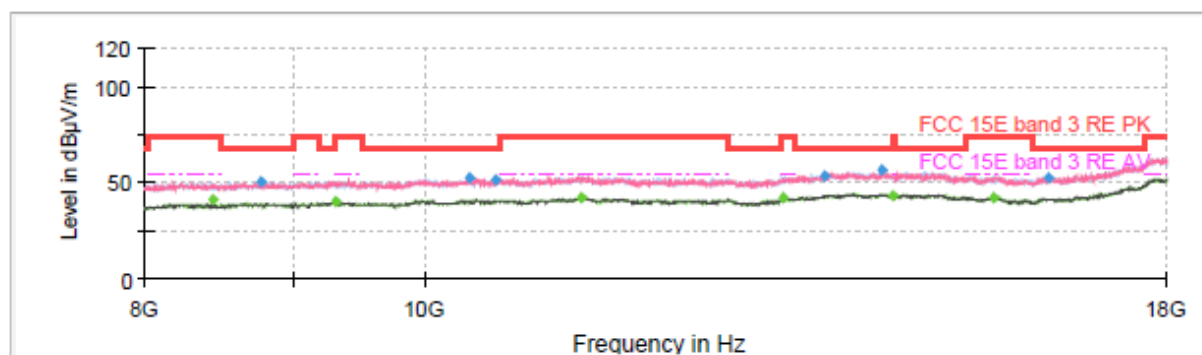
2. Margin = Limit –MAX Peak/ Average

802.11ac (VHT80) CH155



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1265.13	43.57	---	68.20	24.63	500.00	200.0	H	358.00	-4
1388.50	---	33.21	54.00	20.79	500.00	200.0	V	339.00	-3
1701.75	---	33.49	54.00	20.51	500.00	200.0	H	178.00	-2
1764.75	45.62	---	68.20	22.58	500.00	200.0	H	337.00	-2
2467.38	48.31	---	68.20	19.89	500.00	200.0	V	178.00	2
2827.00	---	37.42	54.00	16.58	500.00	200.0	H	343.00	3
3168.25	51.15	---	68.20	17.05	500.00	200.0	V	90.00	4
3478.88	50.16	---	68.20	18.04	500.00	200.0	V	1.00	4
3968.88	---	40.88	54.00	13.12	500.00	200.0	H	121.00	7
5136.13	---	43.19	54.00	10.81	500.00	200.0	V	225.00	10
7734.88	---	48.65	54.00	5.35	500.00	200.0	V	178.00	17
7762.88	60.52	---	68.20	7.68	500.00	200.0	H	356.00	17

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

2. Margin = Limit –MAX Peak/ Average

5.2. Conducted Emission

Ambient condition

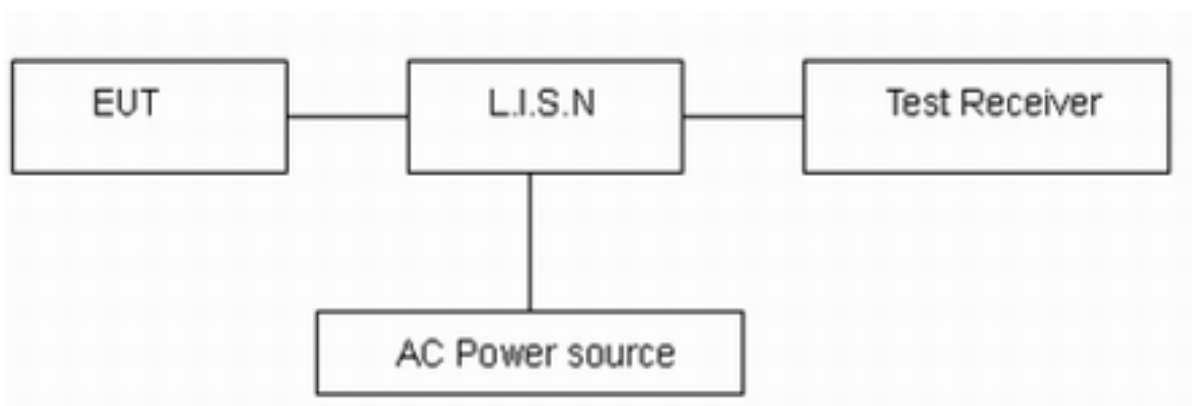
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

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 LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, 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

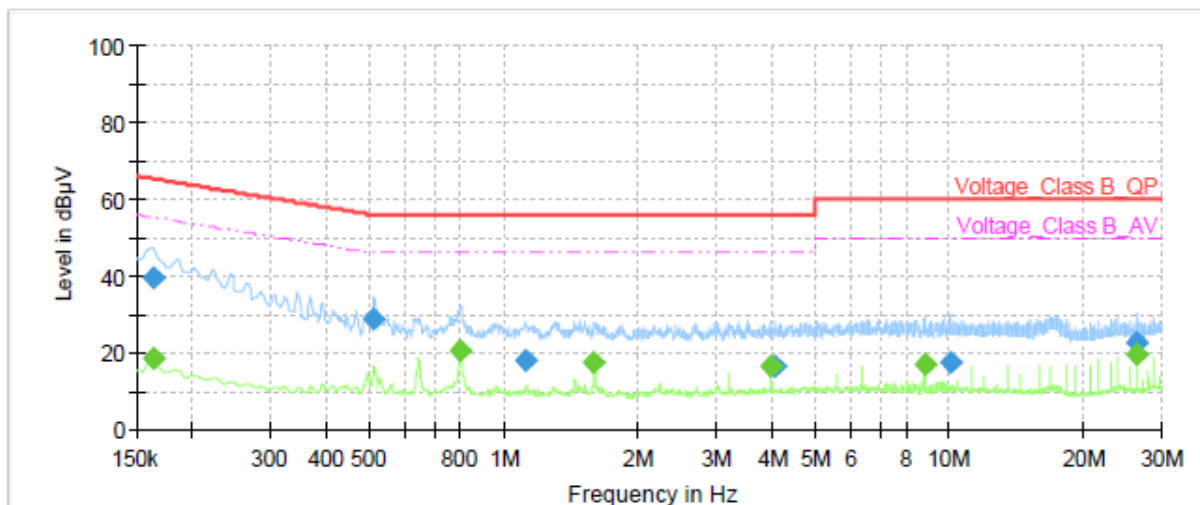
Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46*
0.5 - 5	56	46
5 - 30	60	50
*: Decreases with the logarithm of the frequency.		

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:

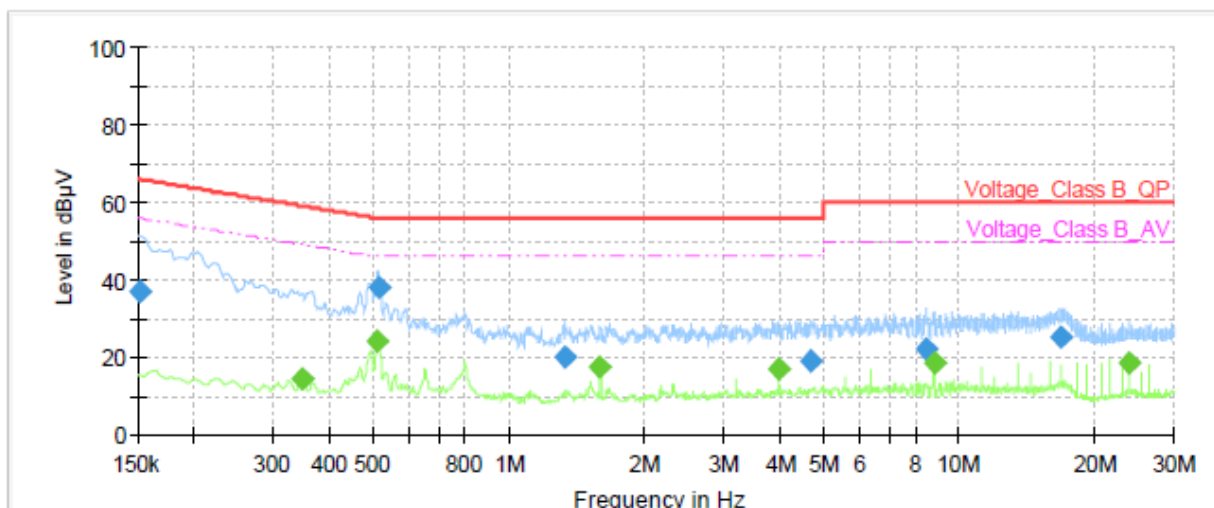
Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11ac (VHT80) CH155 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16	---	18.35	55.28	36.93	1000.0	9.000	L1	ON	20.9
0.16	39.52	---	65.28	25.77	1000.0	9.000	L1	ON	20.9
0.51	28.79	---	56.00	27.21	1000.0	9.000	L1	ON	20.8
0.80	---	20.75	46.00	25.25	1000.0	9.000	L1	ON	20.3
1.12	18.03	---	56.00	37.97	1000.0	9.000	L1	ON	20.1
1.60	---	17.18	46.00	28.82	1000.0	9.000	L1	ON	19.8
3.99	---	16.58	46.00	29.42	1000.0	9.000	L1	ON	19.4
4.07	16.50	---	56.00	39.50	1000.0	9.000	L1	ON	19.4
8.78	---	17.14	50.00	32.86	1000.0	9.000	L1	ON	19.4
10.01	17.43	---	60.00	42.57	1000.0	9.000	L1	ON	19.4
26.34	22.60	---	60.00	37.40	1000.0	9.000	L1	ON	19.8
26.34	---	19.51	50.00	30.49	1000.0	9.000	L1	ON	19.8

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	37.03	---	65.88	28.85	1000.0	9.000	N	ON	20.9
0.35	---	14.15	49.01	34.86	1000.0	9.000	N	ON	20.9
0.51	---	24.23	46.00	21.77	1000.0	9.000	N	ON	20.8
0.51	38.20	---	56.00	17.80	1000.0	9.000	N	ON	20.8
1.34	20.21	---	56.00	35.79	1000.0	9.000	N	ON	19.9
1.60	---	17.18	46.00	28.82	1000.0	9.000	N	ON	19.8
3.99	---	17.10	46.00	28.90	1000.0	9.000	N	ON	19.4
4.68	18.74	---	56.00	37.26	1000.0	9.000	N	ON	19.4
8.46	22.17	---	60.00	37.83	1000.0	9.000	N	ON	19.4
8.78	---	18.26	50.00	31.74	1000.0	9.000	N	ON	19.4
16.72	24.92	---	60.00	35.08	1000.0	9.000	N	ON	19.6
23.95	---	18.57	50.00	31.43	1000.0	9.000	N	ON	19.8

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
EMI Test Receiver	R&S	ESC13	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-010200 G40	YQ2103039B01	2024-05-07	2025-05-06
Horn Antenna	ETS-Lindgren	3160-09	00102643	2024-09-24	2027-09-23
Horn Antenna	STEATITE	QSH-SL-26-40-K-15	16779	2023-01-17	2026-01-16
Amplifier	MicroWave	KLNA-18040050	220826001	2024-05-08	2025-05-07
Software	R&S	EMC32	9.26.01	/	/
Artificial main network	R&S	ENV216	102191	2022-12-10	2024-12-09
EMI Test Receiver	R&S	ESR	101667	2024-05-07	2025-05-06
Software	R&S	EMC32	10.35.10	/	/

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 *****