RF TEST REPORT

Applicant	ID TECH
FCC ID	WQJ-VP6800B
Product	VP6800
Brand	ViVOpay
Model	IDV68-11111
Report No.	EFTA25020034-IE-01-R1V1
Issue Date	April 17, 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.

Prepared by: Xu Ying *Approved by: Xu Kai*

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Version	Revision Description	Issue Date
Rev.0	Initial issue of report.	March 11, 2025
Rev.1	Updated information.	April 17, 2025
Note: This revised report (Report No.: EFTA25020034-IE-01-R1V1) supersedes and replaces the previously issued report (Report No.: EFTA25020034-IE-01-R1). Please discard or destroy the previously issued report and dispose of it accordingly.		

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Summary of Measurement Results

Number	Test Case	Clause in FCC rules	Verdict
1	Unwanted Emissions	15.247(d), 15.205, 15.209	PASS
2	Conducted Emissions	15.207	PASS
Date of Testing: February 18, 2025 ~ March 4, 2025 Date of Sample Received: February 15, 2025			
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.			

Only Unwanted Emissions and Conducted Emissions is tested for IDV68-11111 in this report. Other test items refer to the Module report (Report No.: RSHD200116001-00A, FCC ID: 2AC7Z-ESP32WROVERE, Grant date:04/13/2020).

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1. Test Laboratory

1.1. Notes of the Test Report

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1.2. Test Facility

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

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
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E-mail:	Kain.Xu@cpt.eurofinscn.com

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2. General Description of Equipment Under Test

2.1. Applicant and Manufacturer Information

Applicant	ID TECH
Applicant address	10721 Walker Street, Cypress, California 90630
Manufacturer	ID TECH
Manufacturer address	10721 Walker Street, Cypress, California 90630

2.2. General Information

EUT Description	
Model	IDV68-11111
SN	502F277060
Hardware Version	REV.A
Software Version	v1.00
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	2.00 dBi
Additional Beamforming Gain	NA
Operating Frequency Range(s)	802.11b/g/n(HT20): 2412 ~ 2462 MHz 802.11n(HT40): 2422 ~ 2452 MHz Bluetooth LE V4.2: 2402 ~2480 MHz
Modulation Type	802.11b: DSSS 802.11g/n: OFDM Bluetooth LE: GFSK
Note: 1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.	

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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 C63.10-2020+Cor.1-2023

Reference standard:

KDB 558074 D01 15.247 Meas Guidance v05r02

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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 (Y axis) and the loop antenna is vertical, the others are vertical and horizontal. and the worst case was recorded.

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

Worst-case data rates are shown as following table.

Test Mode	Data Rate
Bluetooth(Low Energy)	1Mbps
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

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5. Test Case Results

5.1. 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

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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.

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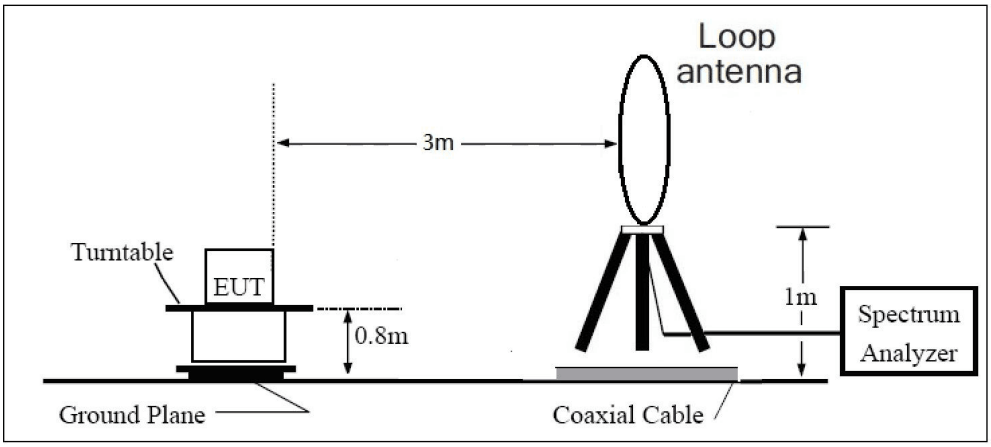
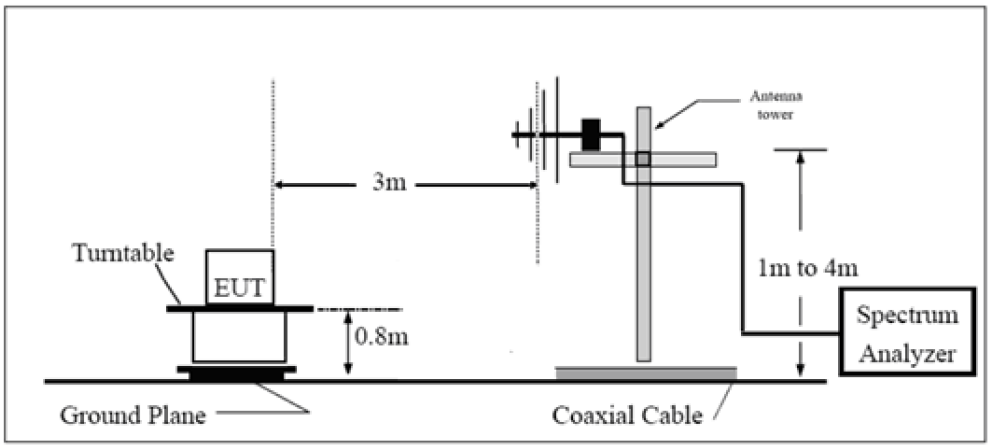
Test Setup

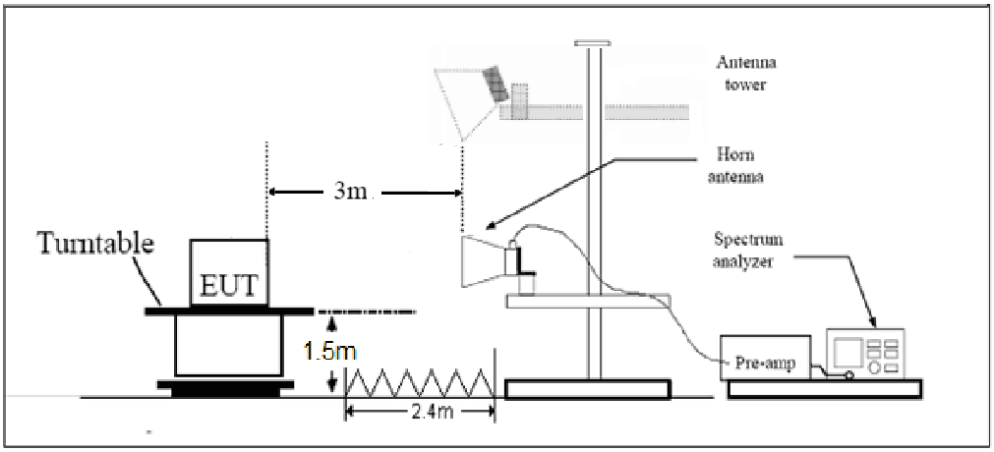
9kHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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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(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

§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 dBμV/m

Average Limit=54 dBμV/m

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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

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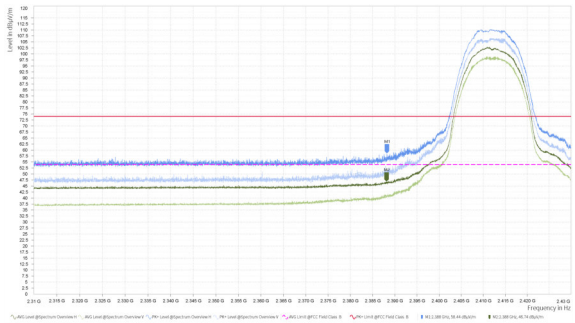
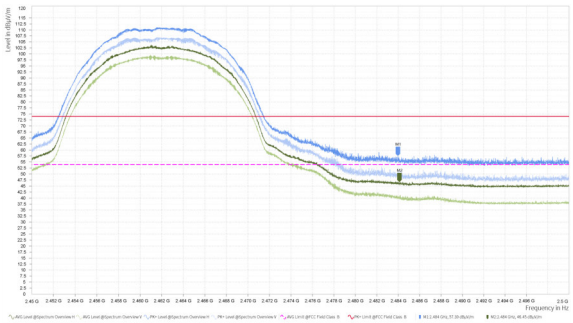
Test Results:

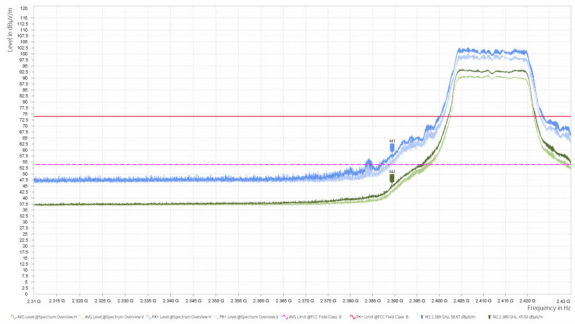
The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.



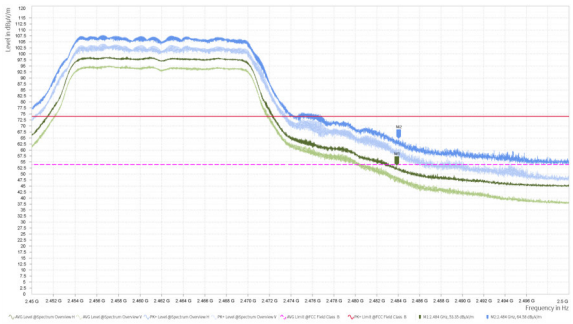
802.11b-Channel 1 Peak+ Average



802.11b-Channel 11 Peak+ Average



802.11g-Channel 1 Peak+ Average



802.11g-Channel 11 Peak+ Average

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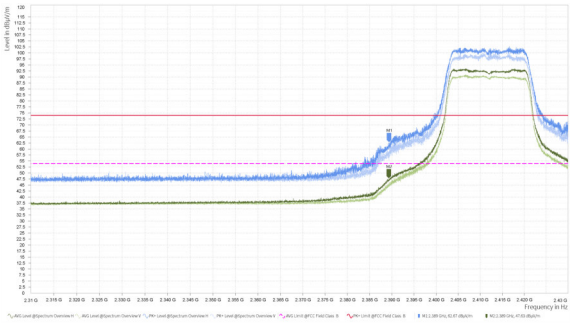
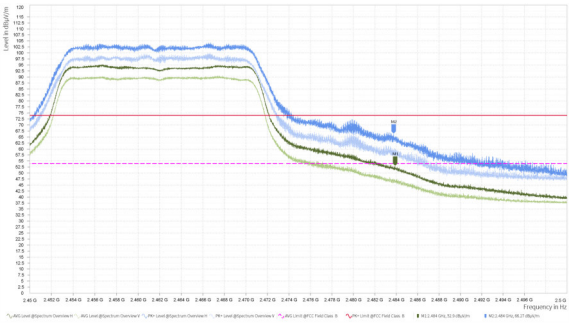
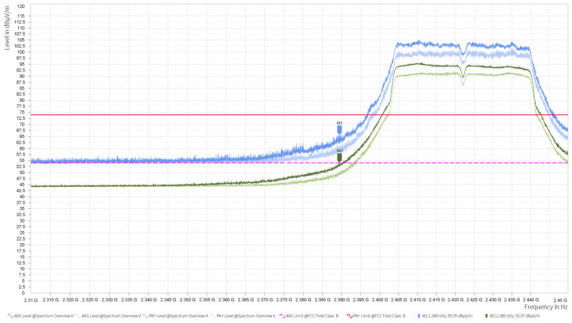


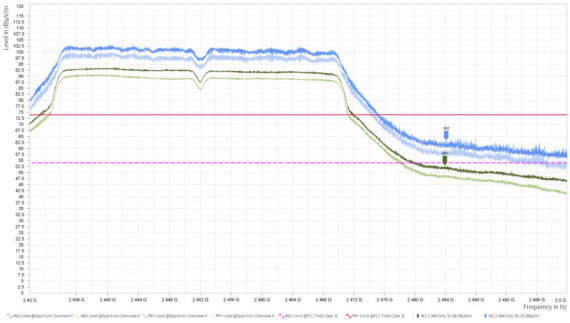
802.11n HT20-Channel 1 Peak+ Average



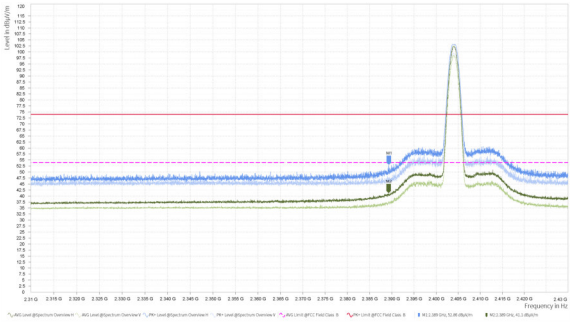
802.11n HT20-Channel 11 Peak+ Average



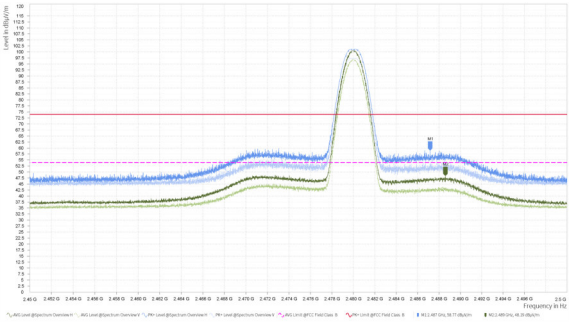
802.11n HT40-Channel 3 Peak+ Average



802.11n HT40–Channel 9 Peak+ Average



Bluetooth LE Channel 0 Peak+ Average



Bluetooth LE Channel 39 Peak+Average

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Result of RE

Test result

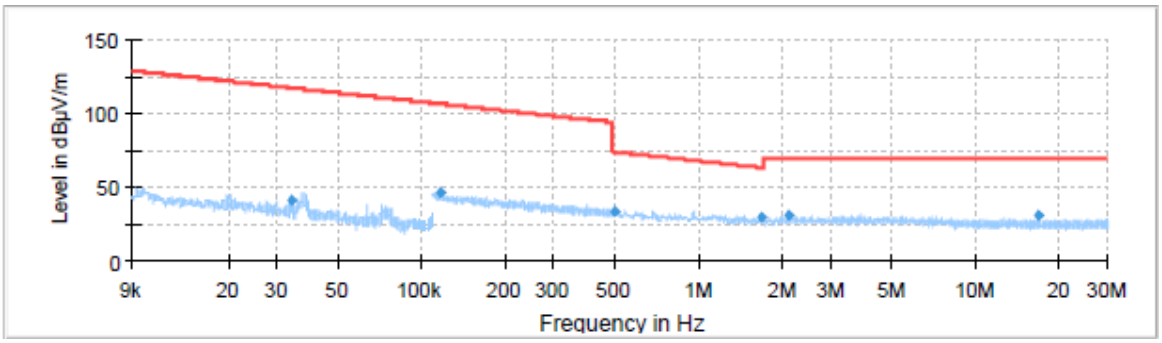
Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier,

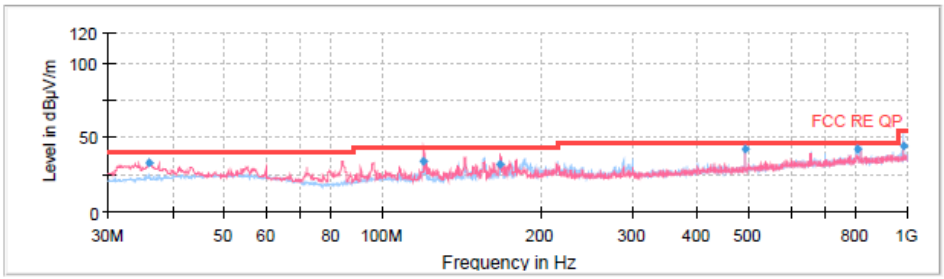
The following graphs display the maximum values of horizontal and vertical by software.
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

Continuous TX mode:

Wi-Fi 2.4GHz

During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels, The test data of the worst-case condition was recorded in this report.
A symbol (dB µV) in the test plot below means (dBµV/m)





Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
35.94	33.05	40.00	6.95	1000.00	120.000	103.0	V	91.00	18
119.97	34.08	43.50	9.42	1000.00	120.000	105.0	V	171.00	17
167.62	31.45	43.50	12.05	1000.00	120.000	101.0	V	280.00	16
491.60	41.88	46.00	4.12	1000.00	120.000	104.0	V	116.00	25
803.70	42.24	46.00	3.76	1000.00	120.000	102.0	H	261.00	30
983.27	44.14	54.00	9.86	1000.00	120.000	190.0	H	1.00	31

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

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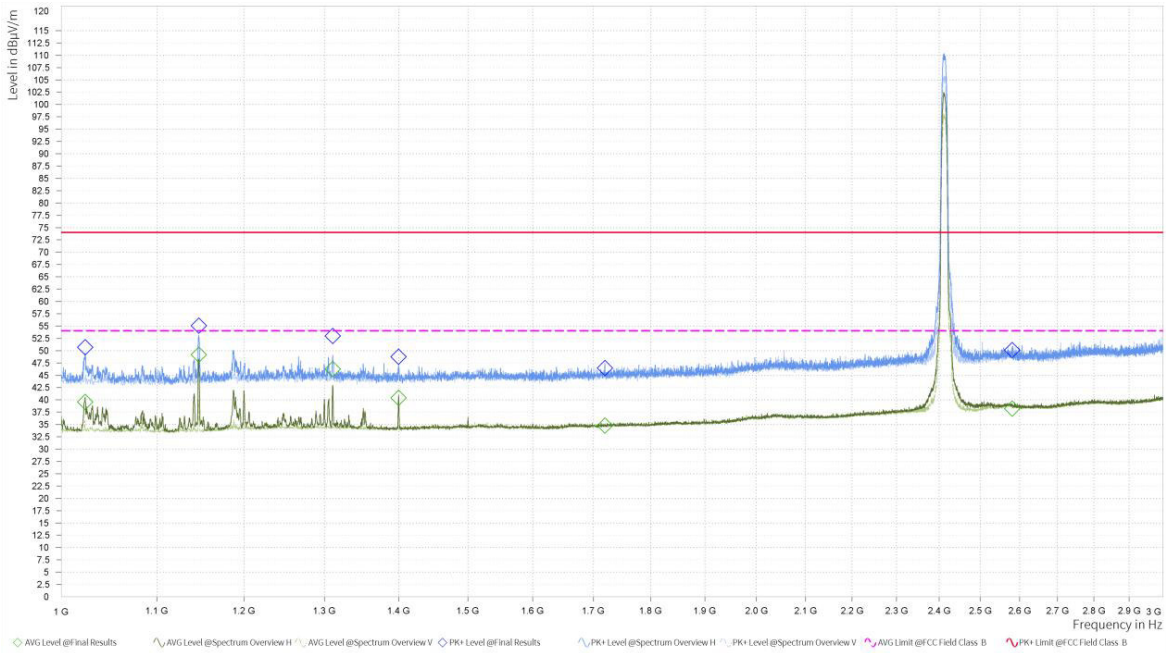
802.11b CH1



EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	1,024.000	50.66	74.00	23.34	39.54	54.00	14.46	-5.92	H	186.4	1.00	1.000	4:22:02
1	1,147.000	55.07	74.00	18.93	49.15	54.00	4.85	-5.45	H	214.7	2.00	1.000	4:21:30
1	1,310.750	52.96	74.00	21.04	46.23	54.00	7.77	-4.28	H	214.1	1.00	1.000	4:22:16
1	1,399.750	48.72	74.00	25.28	40.40	54.00	13.60	-4.48	H	194.2	2.00	1.000	4:21:17
1	1,719.500	46.44	74.00	27.56	34.73	54.00	19.27	-3.70	H	117.6	2.00	1.000	4:20:55
1	2,581.250	50.09	74.00	23.91	38.18	54.00	15.82	0.69	H	221.8	2.00	1.000	4:21:41

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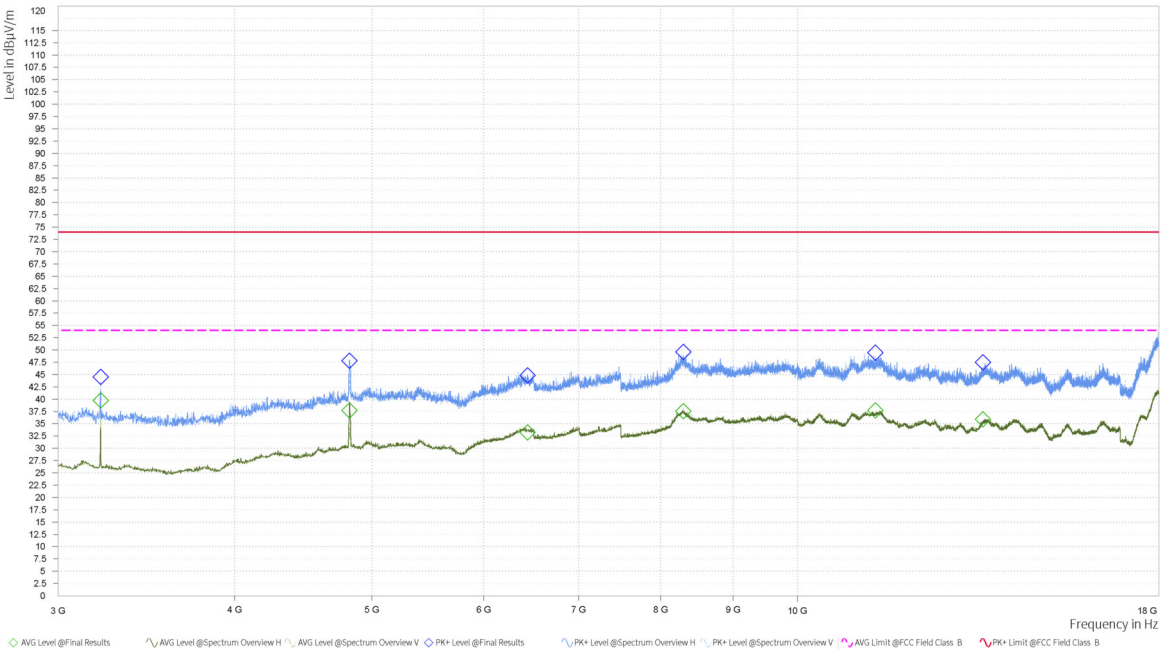

EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	3,215.625	44.54	74.00	29.46	39.71	54.00	14.29	-7.87	V	203.4	2.00	1.000	7:13:45
1	4,822.500	47.79	74.00	26.21	37.70	54.00	16.30	-1.88	H	128.4	2.00	1.000	7:12:10
1	6,442.500	44.85	74.00	29.15	33.23	54.00	20.77	1.44	H	283.1	2.00	1.000	7:12:54
1	8,302.500	49.64	74.00	24.36	37.58	54.00	16.42	6.65	H	144	2.00	1.000	7:12:23
1	11,351.250	49.49	74.00	24.51	37.73	54.00	16.27	7.45	V	141.3	2.00	1.000	7:13:25
1	13,516.875	47.53	74.00	26.47	35.87	54.00	18.13	6.80	V	264.3	2.00	1.000	7:14:05

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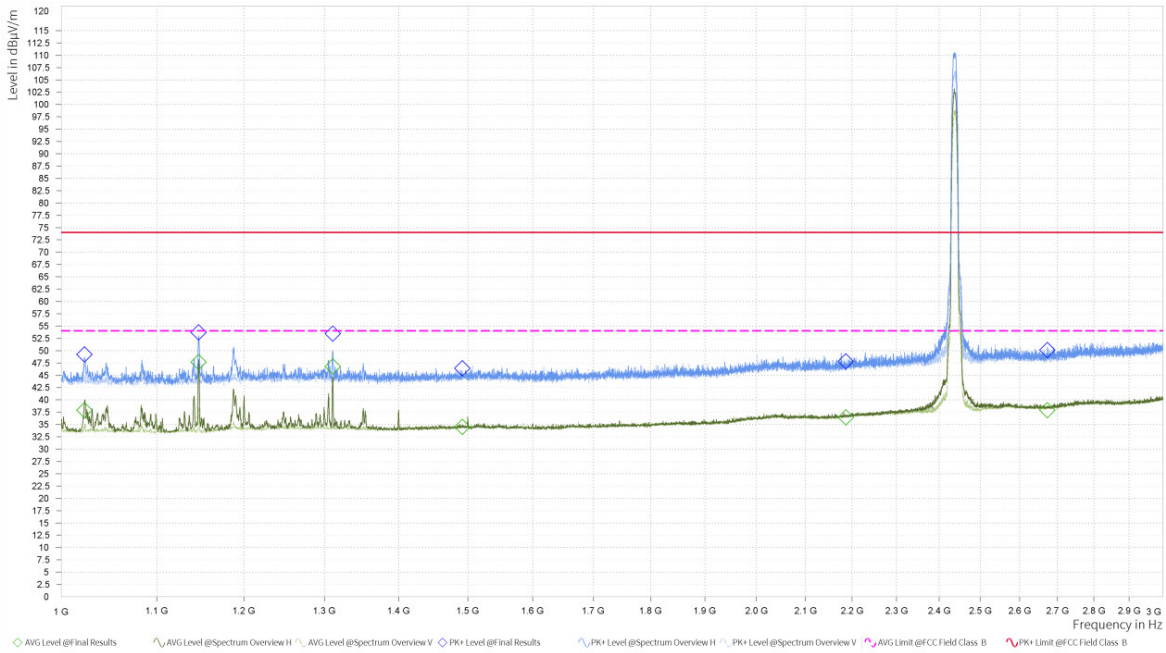
802.11b CH6



EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	1,023.250	49.18	74.00	24.82	37.87	54.00	16.13	-5.93	H	348.5	2.00	1.000	4:43:23
1	1,146.750	53.68	74.00	20.32	47.65	54.00	6.35	-5.44	H	188.2	2.00	1.000	4:42:50
1	1,310.750	53.44	74.00	20.56	46.76	54.00	7.24	-4.28	H	207.4	1.00	1.000	4:43:54
1	1,491.750	46.38	74.00	27.62	34.51	54.00	19.49	-3.92	V	146	2.00	1.000	4:45:32
1	2,186.750	47.77	74.00	26.23	36.39	54.00	17.61	-1.38	V	104.6	2.00	1.000	4:45:15
1	2,673.250	50.07	74.00	23.93	37.87	54.00	16.13	0.37	H	332.5	1.00	1.000	4:44:23

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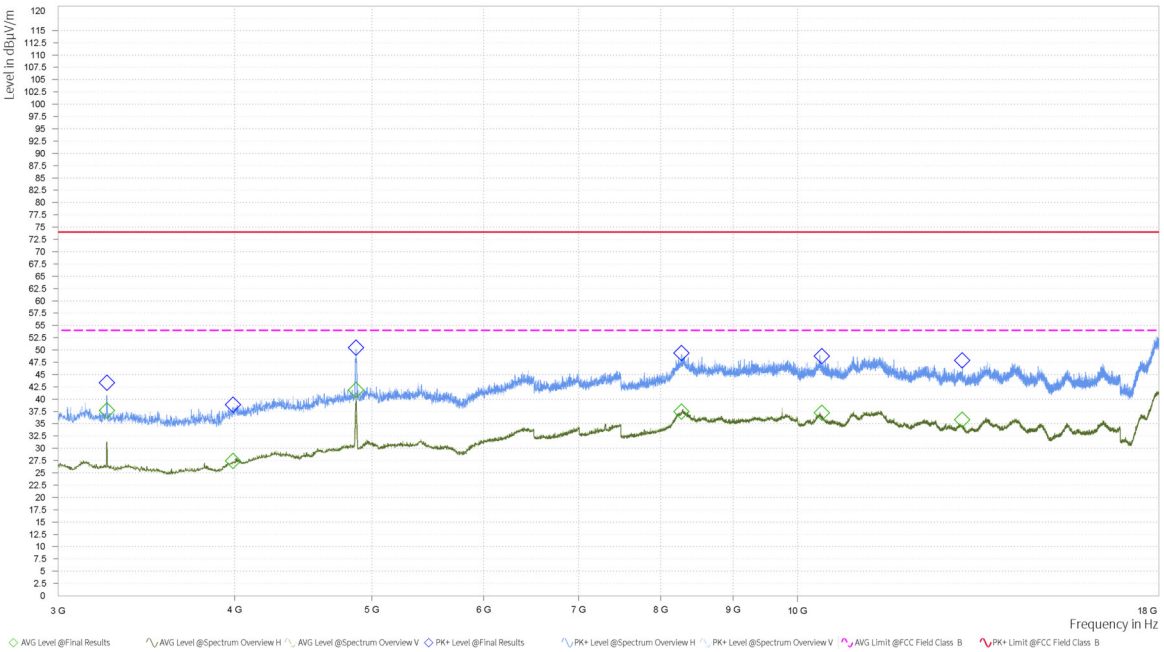

EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	3,249.375	43.33	74.00	30.67	37.69	54.00	16.31	-7.68	H	173.4	2.00	1.000	7:20:13
1	3,988.125	38.84	74.00	35.16	27.40	54.00	26.60	-5.66	H	0	2.00	1.000	7:19:13
1	4,873.125	50.51	74.00	23.49	41.84	54.00	12.16	-1.76	H	142.3	2.00	1.000	7:19:57
1	8,276.250	49.36	74.00	24.64	37.47	54.00	16.53	6.49	H	0	2.00	1.000	7:19:16
1	10,398.750	48.79	74.00	25.21	37.20	54.00	16.80	6.07	H	204.6	2.00	1.000	7:20:29
1	13,066.875	47.88	74.00	26.12	35.80	54.00	18.20	6.67	H	48.8	2.00	1.000	7:19:33

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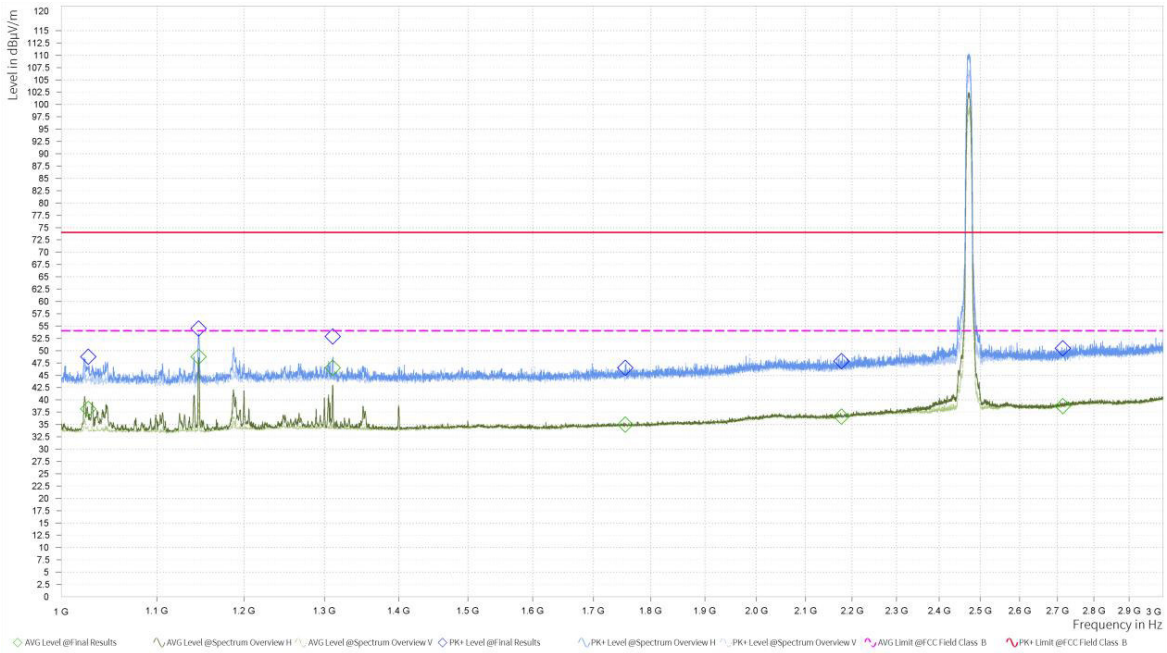
802.11b CH11



EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	1,027.250	48.73	74.00	25.27	38.12	54.00	15.88	-5.88	H	219.7	2.00	1.000	5:39:38
1	1,146.750	54.47	74.00	19.53	48.74	54.00	5.26	-5.44	H	205.2	2.00	1.000	5:39:26
1	1,310.750	52.84	74.00	21.16	46.49	54.00	7.51	-4.28	H	203.2	1.00	1.000	5:40:12
1	1,755.000	46.49	74.00	27.51	34.97	54.00	19.03	-3.58	H	163.1	2.00	1.000	5:39:09
1	2,176.750	47.82	74.00	26.18	36.55	54.00	17.45	-1.49	H	217.2	1.00	1.000	5:40:24
1	2,714.500	50.47	74.00	23.53	38.73	54.00	15.27	0.72	H	188.7	1.00	1.000	5:39:59

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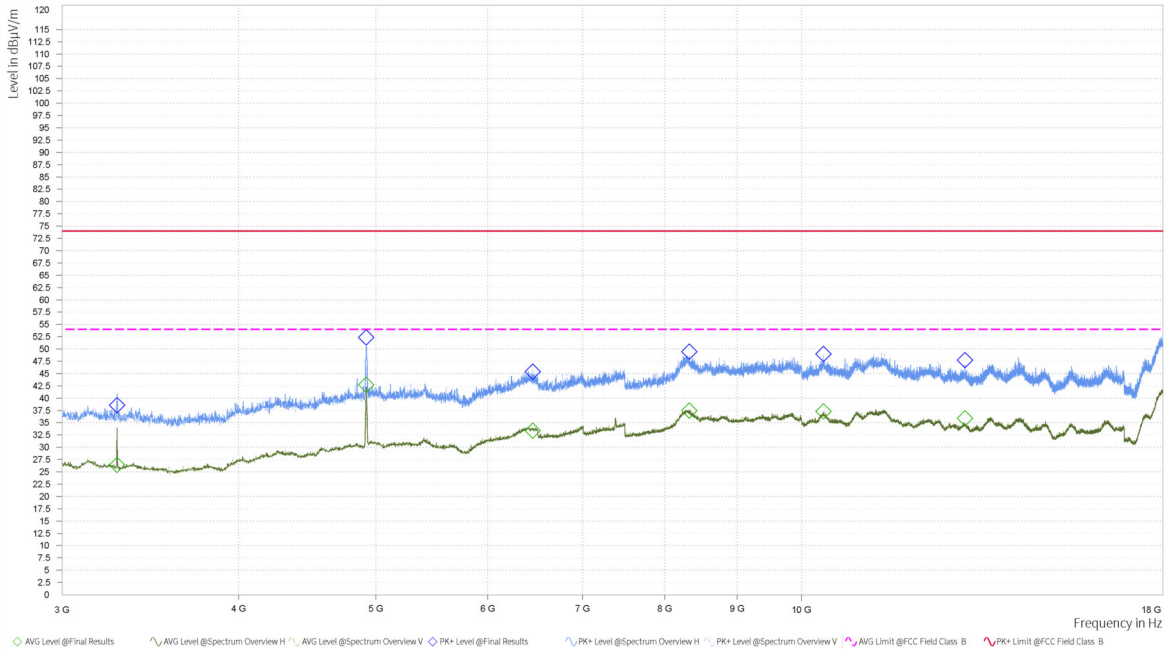

EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	3,281.250	38.53	74.00	35.47	26.39	54.00	27.61	-7.55	H	181.1	2.00	1.000	7:26:14
1	4,923.750	52.35	74.00	21.65	42.70	54.00	11.30	-1.64	H	150.1	2.00	1.000	7:25:59
1	6,453.750	45.36	74.00	28.64	33.40	54.00	20.60	1.36	V	71	2.00	1.000	7:26:56
1	8,330.625	49.45	74.00	24.55	37.45	54.00	16.55	6.26	V	305.4	2.00	1.000	7:27:51
1	10,363.125	49.02	74.00	24.98	37.30	54.00	16.70	6.28	V	242.8	2.00	1.000	7:27:31
1	13,046.250	47.76	74.00	26.24	35.88	54.00	18.12	6.83	H	196.7	2.00	1.000	7:26:27

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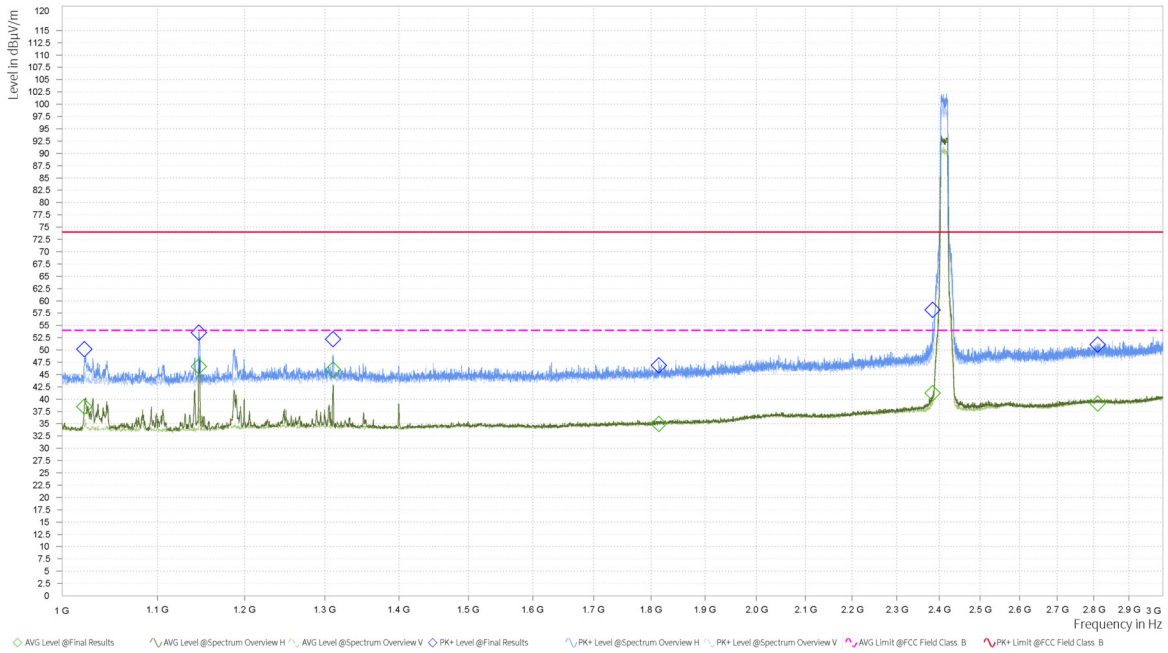
802.11g CH1



EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	1,022.750	50.13	74.00	23.87	38.47	54.00	15.53	-5.94	H	193.8	2.00	1.000	6:45:10
1	1,146.500	53.53	74.00	20.47	46.67	54.00	7.33	-5.44	H	215.7	2.00	1.000	6:45:26
1	1,310.750	52.20	74.00	21.80	46.03	54.00	7.97	-4.28	H	193.8	2.00	1.000	6:45:12
1	1,814.500	46.86	74.00	27.14	34.94	54.00	19.06	-3.33	H	309.9	2.00	1.000	6:45:50
1	2,384.250	58.13	74.00	15.87	41.21	54.00	12.79	-0.54	H	128.4	2.00	1.000	6:44:51
1	2,811.500	51.10	74.00	22.90	39.14	54.00	14.86	1.50	V	331	2.00	1.000	6:46:03

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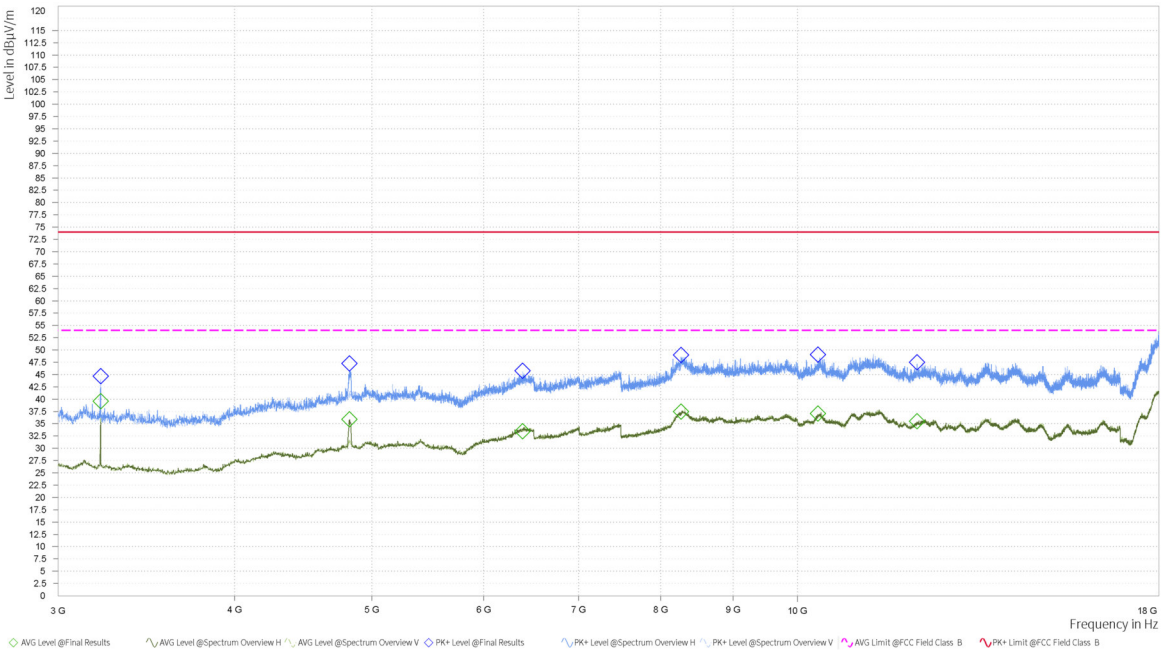

EMI Final Results

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	3,215.625	44.65	74.00	29.35	39.60	54.00	14.40	-7.87	V	209.5	2.00	1.000	7:06:16
1	4,820.625	47.29	74.00	26.71	35.88	54.00	18.12	-1.89	H	137.6	2.00	1.000	7:04:55
1	6,391.875	45.81	74.00	28.19	33.44	54.00	20.56	1.60	V	178.5	2.00	1.000	7:06:00
1	8,272.500	49.03	74.00	24.97	37.49	54.00	16.51	6.44	H	60.6	2.00	1.000	7:04:33
1	10,336.875	49.06	74.00	24.94	37.09	54.00	16.91	6.11	H	268.7	2.00	1.000	7:05:25
1	12,146.250	47.52	74.00	26.48	35.47	54.00	18.53	5.93	H	276.1	2.00	1.000	7:05:35

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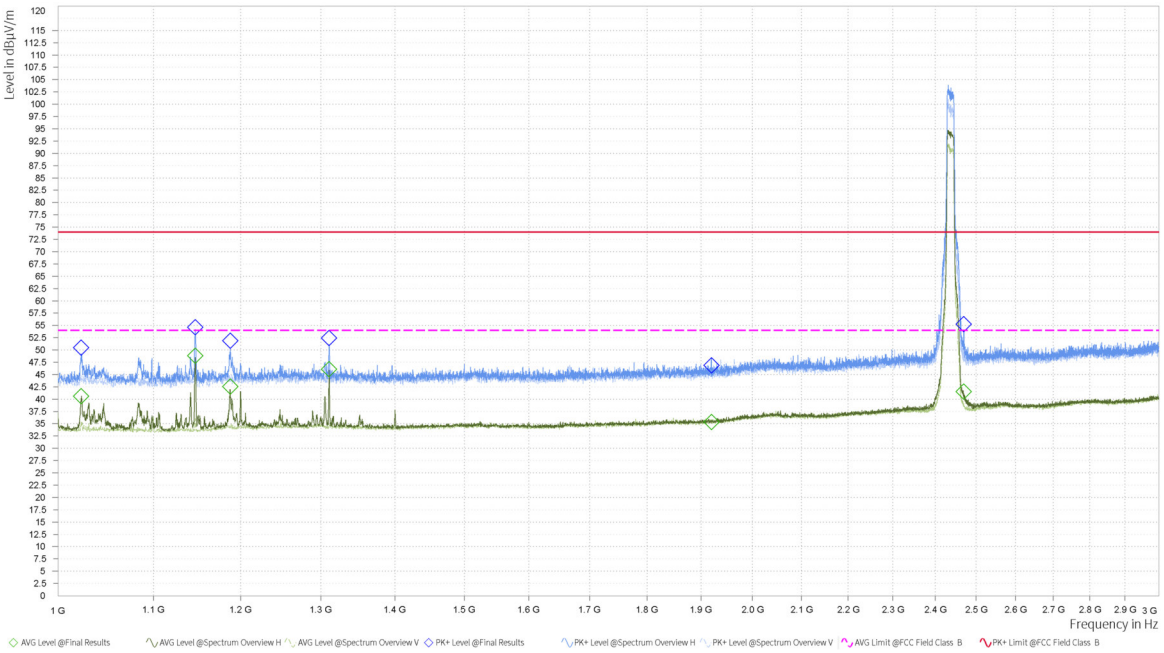
802.11g CH6



EMI Final Results (1/2)

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. Time [s]	Time of Meas.
1	1,023.500	50.51	74.00	23.49	40.62	54.00	13.38	-5.93	H	230.3	2.00	1.000	6:38:39
1	1,146.750	54.65	74.00	19.35	48.82	54.00	5.18	-5.44	H	215	2.00	1.000	6:38:26
1	1,187.750	51.89	74.00	22.11	42.54	54.00	11.46	-4.71	H	186.3	2.00	1.000	6:37:52
1	1,310.750	52.46	74.00	21.54	46.10	54.00	7.90	-4.28	H	200.5	2.00	1.000	6:38:13
1	1,919.500	46.84	74.00	27.16	35.37	54.00	18.63	-2.81	H	42.5	2.00	1.000	6:37:21
1	2,469.250	55.26	74.00	18.74	41.51	54.00	12.49	-0.21	H	193.4	2.00	1.000	6:38:03

EMI Final Results (2/2)

Rg	Frequency [MHz]	Source
1	1,023.500	Critical Points
1	1,146.750	Critical Points
1	1,187.750	Critical Points
1	1,310.750	Critical Points
1	1,919.500	Critical Points
1	2,469.250	Critical Points

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