

TEST REPORT

Report Reference No.:	80260100023001	
Sample ID.....:	BLC-01-0892449-011	
Date of issue	16/02/2026	
Total number of pages	36	
Testing Laboratory	TUV SUD South Asia Pvt Ltd	
Address	Plot No. 3-P1-B, Hitech Defence & Aerospace Park, KIADB Industrial Area, BK Palya, Bengaluru, Bengaluru North Taluk Pin code – 562149 India	
Applicant's name	Cardiac Design Labs Pvt Ltd	
Address	#184, 2, Whitefield Main Rd, Whitefield, Bengaluru, Karnataka 560066	
Test specification Standard.....:	FCC Part 15 Subpart C 15.203, 15.205, 15.209 & 15.247	
Test Method	ANSI C63.10-2020	
Non-standard test method.....:	NA	
Test Report Form Number.....:	LAB_F(EE)_138-51	
Product Name.....:	Padma Rhythms	
Test Item Description.....:	2 channel continuous ECG recorder	
Manufacturer	Cardiac Design Labs Pvt Ltd	
Model Number.....:	PR01	
Serial Number.....:	CDLIN01232220019W	
Ratings.....:	6V DC through Battery	
FCC ID.....:	2BU3APADMAPR01	
Tested by (Name + Signature)	Nikhil G	
Reviewed & Approved by (Name + Signature)	Raghunath M N	

TEST REPORT

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Possible test case verdicts:

- test case does not apply to the test object.... : N/A
- test object does meet the requirement : Pass
- test object does not meet the requirement ... : Fail

Testing:

Condition of the EUT on Receipt.....: Good
 Date of receipt of test item.....: 24/02/2025
 Date (s) of performance of tests.....: 03/07/2025 to 10/09/2025

General remarks:

1. The submitted sample(s) were not drawn by laboratory.
2. The test results presented in this report relate only to the object tested.
3. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.
4. The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/E-mail is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.
5. The laboratory will retain the sample(s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.
6. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
 "(see Enclosure #)" refers to additional information appended to the report.
 "(see appended table)" refers to a table appended to the report.
7. Throughout this report a point is used as the decimal separator.

Use of uncertainty of measurement for decisions on conformity (decision rule): Yes/No

☒ No decision rule is specified by the IEC/EN standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule, previously known as "accuracy method").

☐ Other: (to be specified)

Decisions on conformity: Decision on conformity of results is based on as per standard limits or criteria.

Summary of compliance: The Product comply with the requirements of FCC Part 15 Subpart C 15.203, 15.205, 15.209 & 15.247.

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Revision History of Records

Test Report Number	Version	Reason for Change	Date Issued
80260100023001	01	Initial Report	16/02/2026

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1 GENERAL INFORMATION

1.1 Appendices

The following documents are appended to this report as separate attachments:

Test Setup Photographs, External and Internal Photographs of the EUT, Label and its Location, Block Diagram, EUT Specifications, Schematic Diagrams, Bill of Materials, User Manual, and Maximum Permissible Exposure (MPE) information.

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2 TEST SUMMARY

Sl.no	Requirement – Test	Basic Standard	Result
1.	Maximum conducted (Peak) output power	FCC 15.247 (b)(3)	Pass
2.	Maximum Power Spectral Density	FCC 15.247(e)	*N/T
3.	DTS Bandwidth	FCC 15.247(a)(2)	*N/T
4.	Emissions in non-restricted frequency bands	FCC 15.247(d)	*N/T
5.	Spurious Radiated Emissions and Restricted Bands of Operation	FCC 15.247 (d) / 15.209 / 15.205	Pass
6.	Conducted Emissions on AC Power Lines	FCC 15.207	*NA
7.	Antenna Requirement	FCC 15.203	Pass

Note:

Antenna Requirement:

The RF module incorporates a permanently affixed antenna with no provision for a standard detachable connector, thereby restricting antenna replacement or modification by the end user. This design complies with the technical requirements of FCC 47 CFR §15.203 for intentional radiators.

***NA** - Not Applicable

***N/T → Not Tested** - These test cases are not tested, the product uses certified RF module BMD-340 Module for Bluetooth 5 and 802.15.4, Model Name: BMD-340 from RIGADO, with FCC ID: 2AA9B10 Issued by the Intertek Testing Services NA, Inc.

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3 MEASUREMENT UNCERTAINTY

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

Table 1: Measurement Uncertainty

No.	Item	Uncertainty
1	Conducted Emission Test	2.25dB
2	Radiated Emission Test	4.71 dB

4 TEST EQUIPMENT USED

Table 2: Test Equipment Used

S. No	Test Equipment	Manufacturer	Model No	Serial No	Calibration Due Date
1.	Active Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519C	43	07/04/2026
2.	Biconical Antenna	Schwarzbeck Mess-Elektronik	VHBB 9124	1940	17/02/2026
3.	Log-Periodic Antenna	Schwarzbeck Mess-Elektronik	VUSLP 9111 B	735	18/02/2026
4.	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120D	2733	31/03/2026
5.	Double Ridge Broadband Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9120L	18	15/05/2026
6.	EMI Test Receiver	ROHDE & SCHWARZ	ESR3	103112	25/02/2026
7.	Open Switch and Control Platform	ROHDE & SCHWARZ	OSP150	101158	27/02/2026
8.	EMI Test Receiver	ROHDE & SCHWARZ	ESW44	103295	10/03/2026
9.	Signal controlling unit	ROHDE & SCHWARZ	SCU01F	100507	--
10.	Signal Conditioning Unit	ROHDE & SCHWARZ	SCU18F	101037	--
11.	Signal controlling unit	ROHDE & SCHWARZ	SCU40F1	100653	--

Table 3: Instrument application Software versions

Sl. No	Test Type	Application software and version
1	Antenna Port conducted measurement: TS8997 system	WMS 32 V11.60.00
2	Radiated spurious emission measurement: 10-meter Semi Anechoic Chamber	Elektra V5.03.0

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5 EQUIPMENT INFORMATION

5.1 Product Function

Padma Rhythms is a battery operated, 2 channel ECG Patch that is designed to continuously record, store, and transfer the ambulatory ECG data to the user's mobile phone via Bluetooth. The device does not perform analysis on the recorded ECG, but the data can be analyzed, reviewed, and reported by a trained technician or licensed healthcare practitioner manually using the software application provided with the device.

5.2 General Information of EUT

Table 4: EUT details as declared by client*

EUT Name	Padma Rhythms	
Protocol	BLE	
Operating Frequency Range	2402MHz – 2480MHz	
Channel Spacing	2MHz	
Environmental conditions	Storage	Temperature: +10°C to +27°C Humidity: 40% to 60% RH Atmospheric Pressure: 700 to 1060 hPa
	Operating	Temperature: +10°C to +40°C Humidity: 40% to 60% RH Atmospheric Pressure: 700 to 1060 hPa
Supply Voltage	6V DC through Battery	
Maximum Measured Power (dBm)	-2.7 dBm	
Modulation	GFSK	
Number of antennas	1	
Antenna Type	PCB Antenna	
Antenna Gain	-1dBi	
EUT Dimension (LxWxH)	123mm x 72mm x 10.3mm	

***Disclaimer:** The TÜV SÜD is not responsible for the accuracy of the customer declared specification.

Note:

Although the hardware platform supports IEEE 802.15.4 protocols, the client has declared that the Padma Rhythms firmware enables only Bluetooth Low Energy (BLE) functionality with GFSK modulation. Consequently, compliance testing has been performed exclusively for BLE operation.

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6 TEST DESCRIPTION

6.1 Test Operation and software mode

Hardware Version: PR-REPM-C3

Software Version: 0xA2

6.2 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle on low, mid and high channels

6.3 Accessories and Auxiliary Equipment

Auxiliary Equipment: NA

6.4 List of frequencies

Table 5: List of BLE Centre frequencies:

Frequency Band (MHz)	Channel No.	Frequency (MHz)
BLE (2402-2483.5)	0	2402
	1	2404
	2	2406
	3	2408
	:	:
	:	:
	18	2438
	19	2440
	20	2442
	:	:
	:	:
	36	2474
	37	2476
	38	2478
	39	2480

Channel used for BLE testing:

Channel low: 2402MHz

Channel mid: 2440MHz

Channel High: 2480MHz

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7 OPERATIONAL DESCRIPTION

Padma Rhythms consists of a device and a disposable patch that is supplied as an accessory. The device is a 2 channel Ambulatory ECG Patch that can be stuck onto the patient's skin for multiple days. The firmware bundled with the device records ECG and sends the recorded ECG to an App on a mobile phone via Bluetooth. The recorded ECG data is displayed by a PC based application.

The device is powered with 6V DC power using 2 CR2430 Lithium coin cell battery in series and runs for multiple days and stores recorded ECG data in its on-board memory and transfers to the Padma Rhythms application on phone using Bluetooth. There is a provision for capturing patient triggered events that can be used by patients to register the time at which any symptomatic events are experienced.

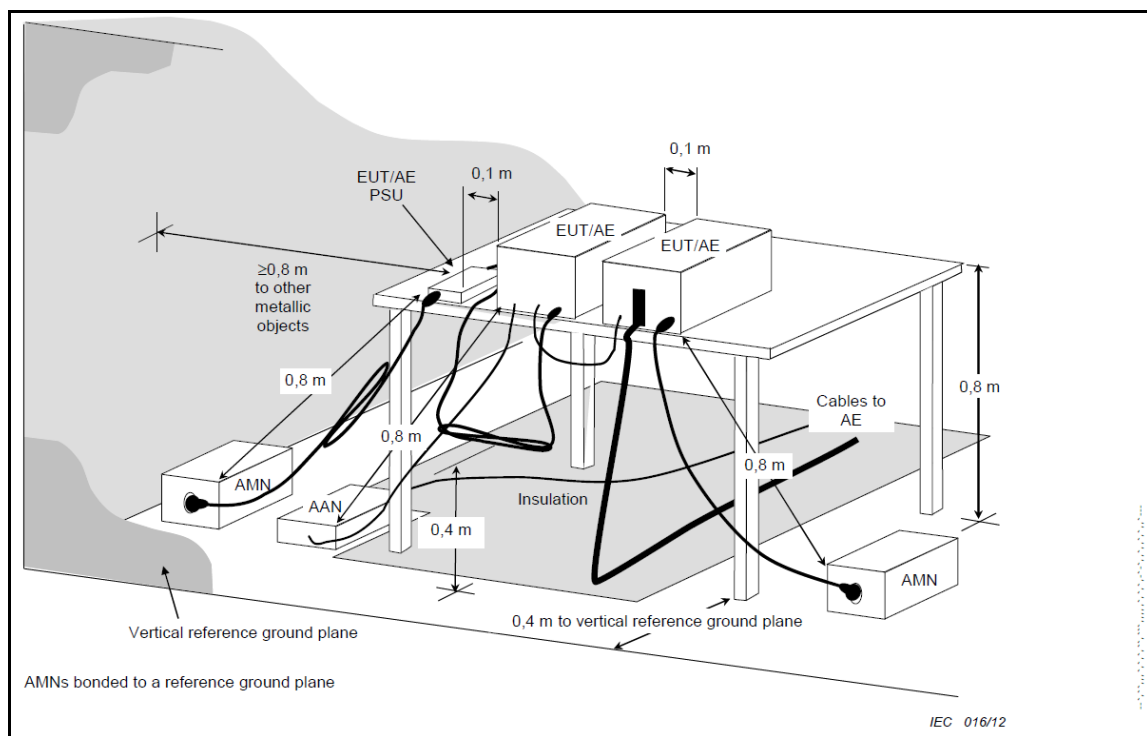
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8 TEST METHODOLOGY

8.1 Conducted Spurious Emission Test on AC Power Lines

AC powerline conducted emissions were measured across the 50Ω LISN port connected to the Equipment Under Test (EUT). Emission voltage and current measurements were performed on each current-carrying conductor at the EUT power cord plug using mating plugs and receptacles on the LISN. The EUT was tested using manufacturer-supplied or recommended power cords, ensuring equivalent electrical and shielding characteristics. The device will be positioned on a test table 80cm above the reference ground plane, with a vertical conducting plane located 40cm to its rear. AC conducted emission measurements were conducted over a frequency range of 150kHz to 30MHz, utilizing an AC adapter with a 110V AC 60Hz supply.

8.1.1 Test Setup Configuration



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8.2 Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 1mtr high turntable for below 1 GHz and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360 ° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1GHz was performed by Horn Antenna, the measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 1000 MHz was performed by Broadband Trilog Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded

8.2.1 Test Setup Configuration

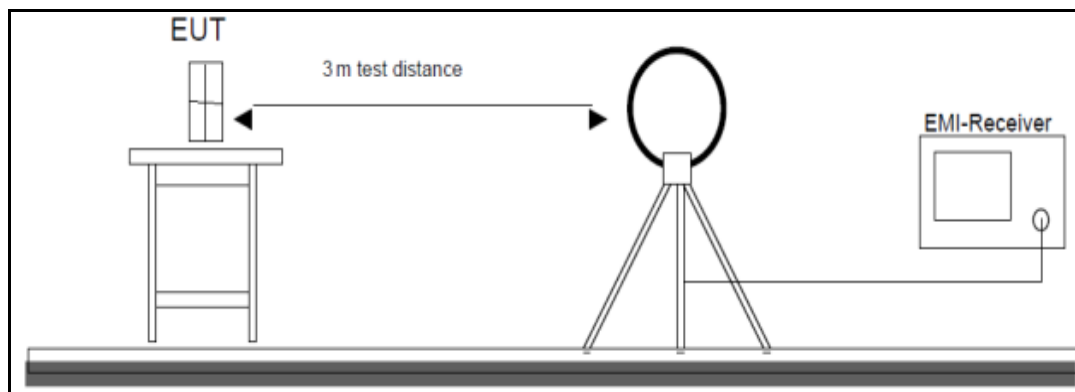


Figure 1: Frequency Range 9kHz- 30MHz

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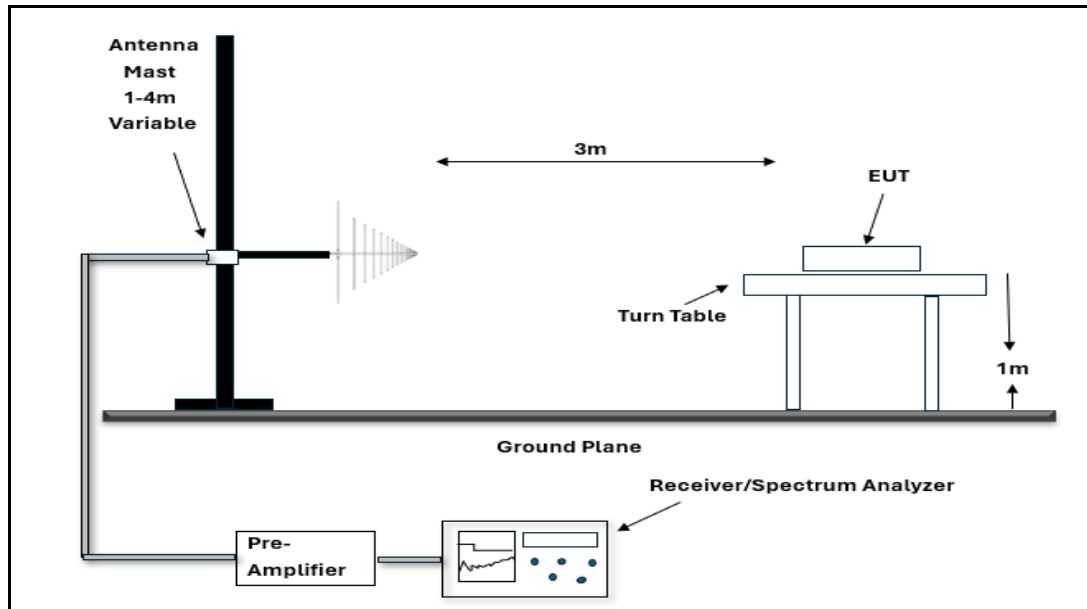


Figure 2: Frequency Range 30MHz - 1GHz

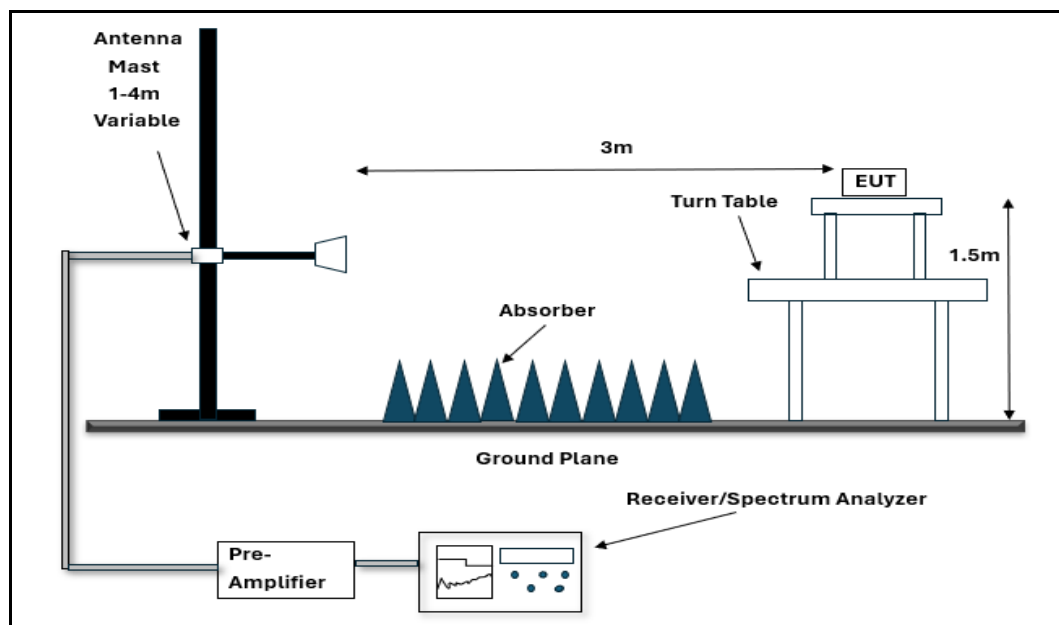


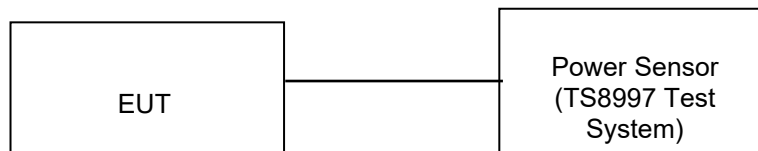
Figure 3: Frequency Range above 1GHz

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9 TEST CONDITIONS AND RESULTS – Maximum Peak Conducted Output Power

Test Specification	FCC part 15 Subpart C 15.247 (b)(3)
Test Method	Subclause 11.9.2.3.2 of ANSI C63.10-2020
Measurement Bandwidth	1MHz
Detector	Gated RMS
Requirement	Power $\leq$ 1 W (30 dBm)

Test Setup:



9.1 Environmental Conditions

Temperature	: 25°C
Relative humidity	: 53%
Power supply	: 6V DC through Battery

9.2 Test results

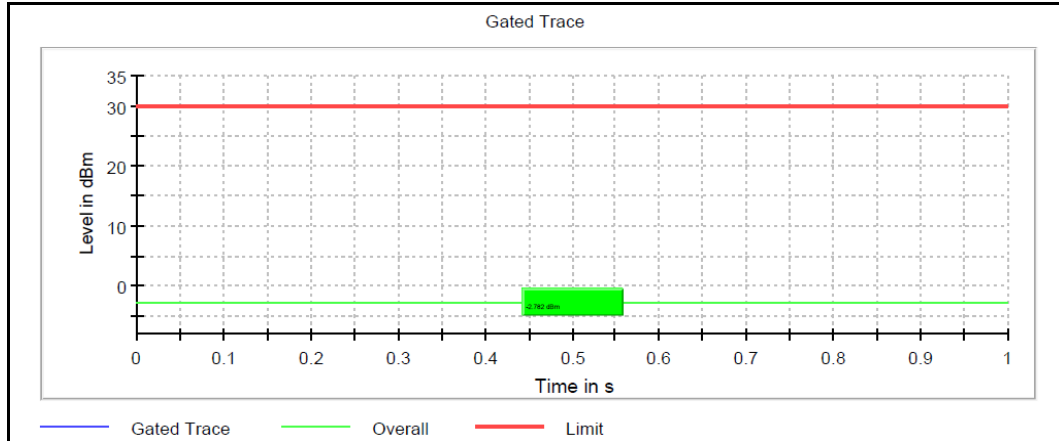
Table 6: Maximum peak conducted output power results

Data rate	Channel Frequency (MHz)	RF Output Power (dBm)	Limit (dBm)	Margin (dB)
1 Mbps	2402	-2.78	30	-32.78
	2440	-3.12	30	-33.12
	2480	-2.70	30	-32.70
2 Mbps	2402	-2.80	30	-32.80
	2440	-3.13	30	-33.13
	2480	-2.71	30	-32.71

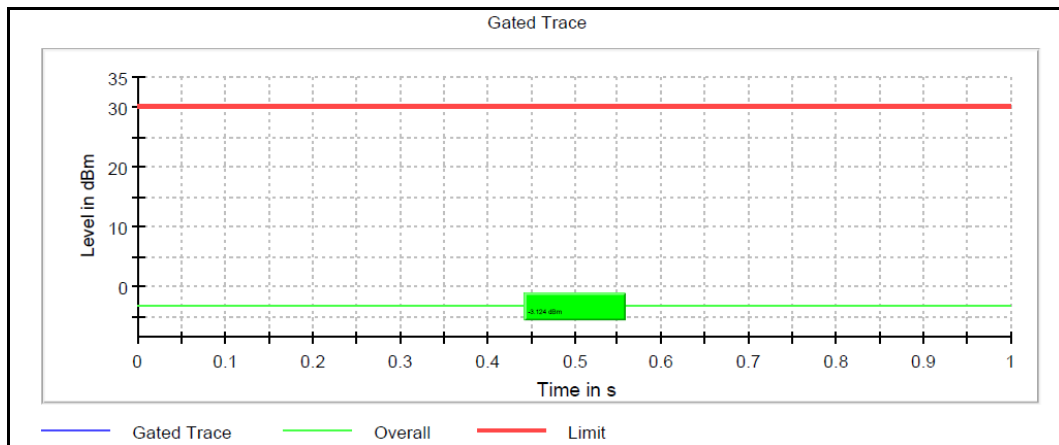
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Test plots:

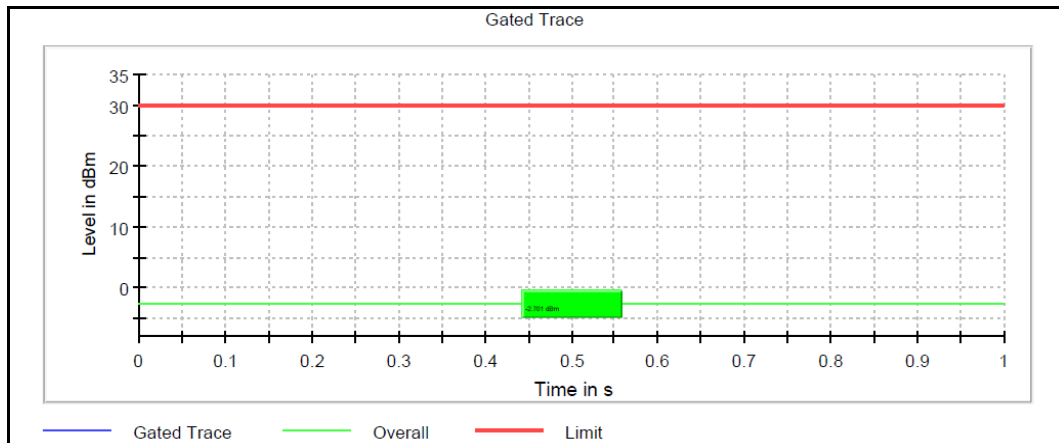
Data Rate: 1Mbps



Channel Frequency: 2402MHz



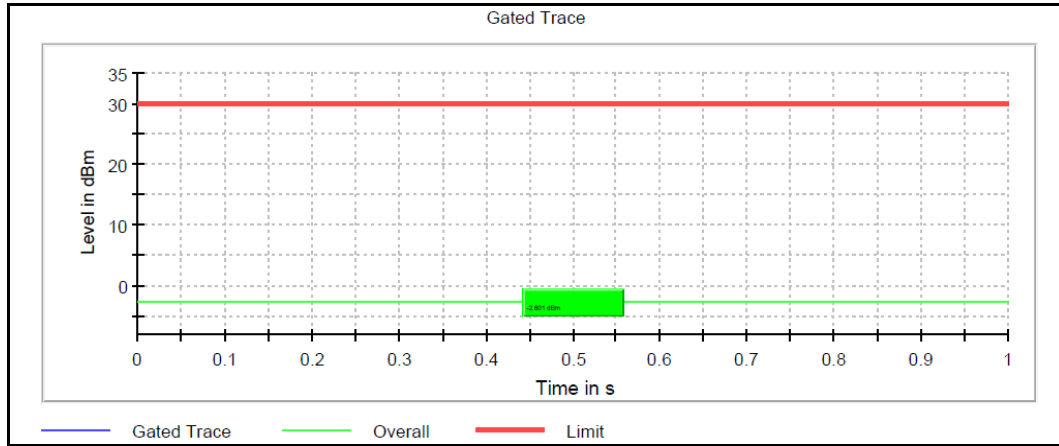
Channel Frequency: 2440MHz



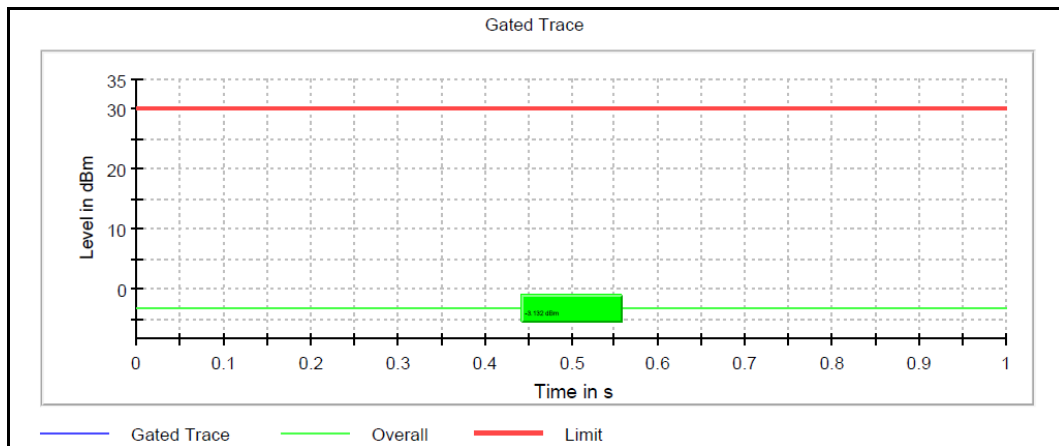
Channel Frequency: 2480MHz

Report Reference. No.: 80260100023001

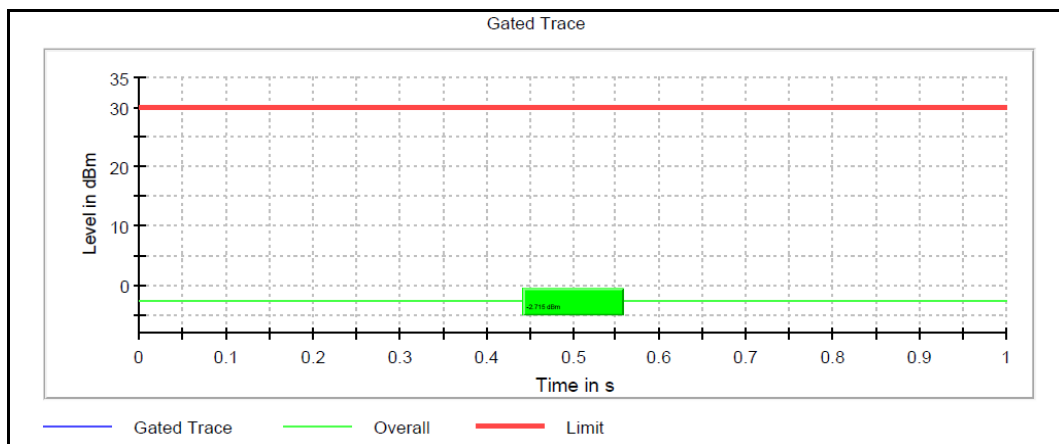
Data Rate: 2Mbps



Channel Frequency: 2402MHz



Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

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10 TEST CONDITIONS AND RESULTS – Spurious Radiated Emissions & Restricted Bands of Operation

Test Specification	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205)
Test Method	ANSI C63.10
Testing Location	Semi Anechoic Chamber 9kHz - 1 GHz Fully Anechoic Chamber 1 GHz - 26GHz
Measurement Bandwidth	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Measuring Distance	3 m
Requirement	As per the limits mentioned in the below table
Test Setup	Refer <u>TEST METHODOLOGY</u>

Table 7: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300-meter, 30-meter and 30-meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on 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.

10.1 Environmental Conditions

Temperature	: 25°C
Relative humidity	: 53%
Power supply	: 6V DC through Battery

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10.2 Test result:

Test results for frequency range 9kHz – 30MHz

No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported.

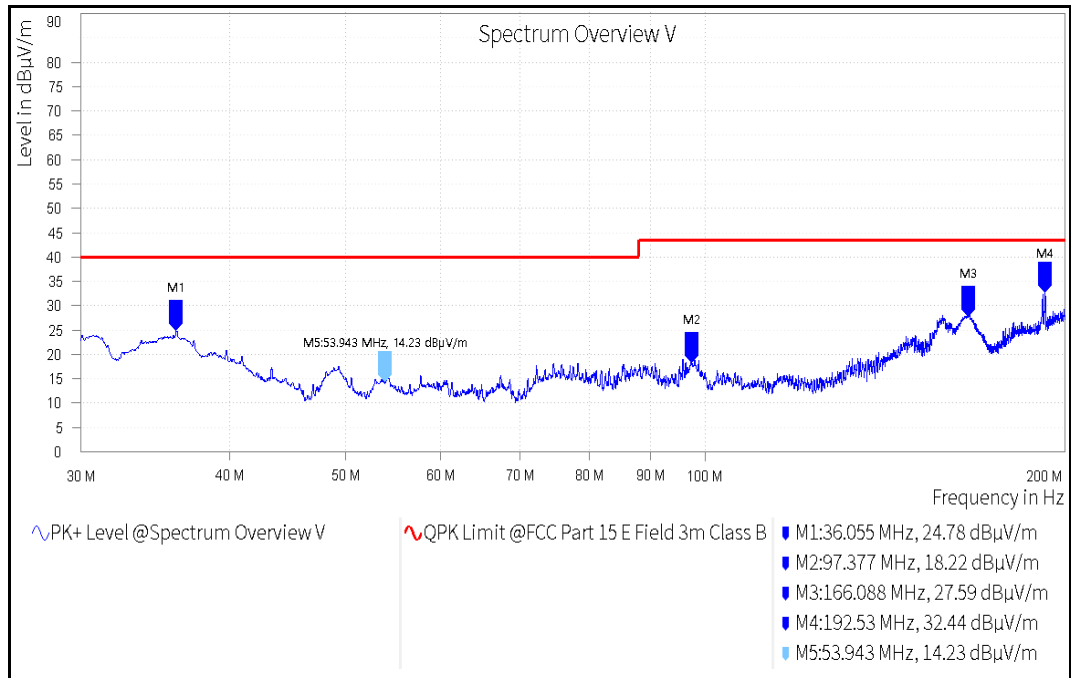
Test results for frequency range 30MHz – 1GHz

Table 8: Test results for frequency range 30MHz – 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured Spurious emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	36.05	24.78	40.00	-15.22
	97.37	18.22	43.50	-25.28
	166.08	27.59	43.50	-15.91
	192.53	32.44	43.50	-11.06
	204.29	30.35	43.50	-13.15
	422.49	31.42	46.00	-14.58
	556.75	33.84	46.00	-12.16
	840.72	40.35	46.00	-5.65
Horizontal	46.53	9.71	40.00	-30.29
	168.45	31.04	43.50	-12.46
	191.61	37.83	43.50	-5.67
	192.57	37.73	43.50	-5.77
	243.41	35.87	46.00	-10.13
	426.11	36.55	46.00	-9.45
	840.53	38.74	46.00	-7.26
	834.14	35.80	46.00	-10.20

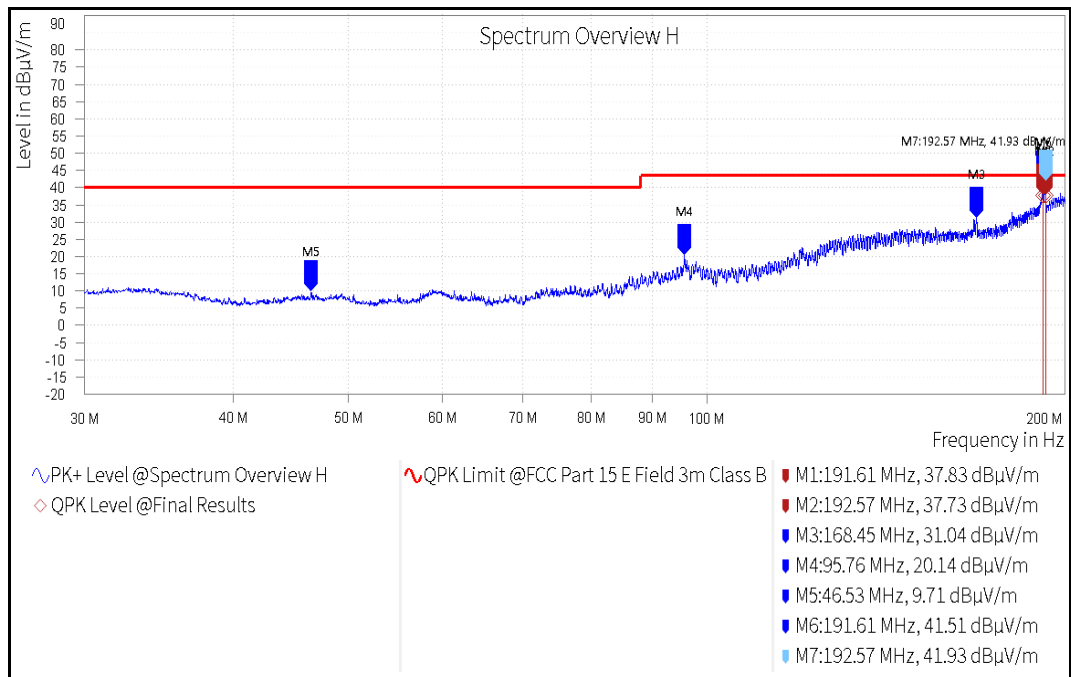
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Test Plots:



Frequency range: 30MHz -200MHz

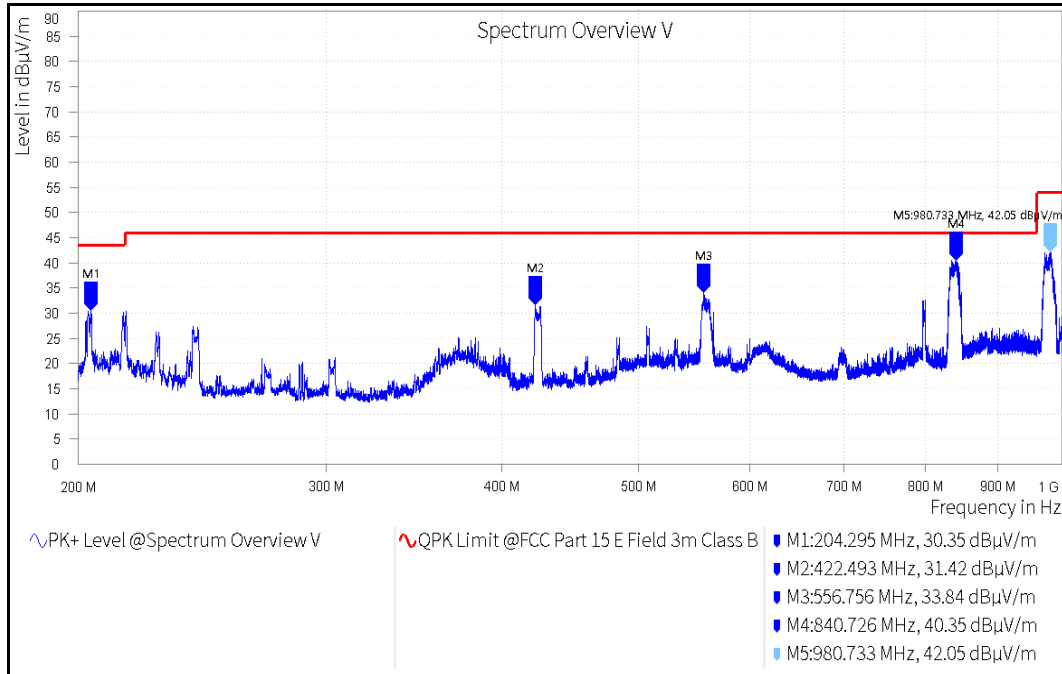
Polarization: Vertical



Frequency range: 30MHz -200MHz

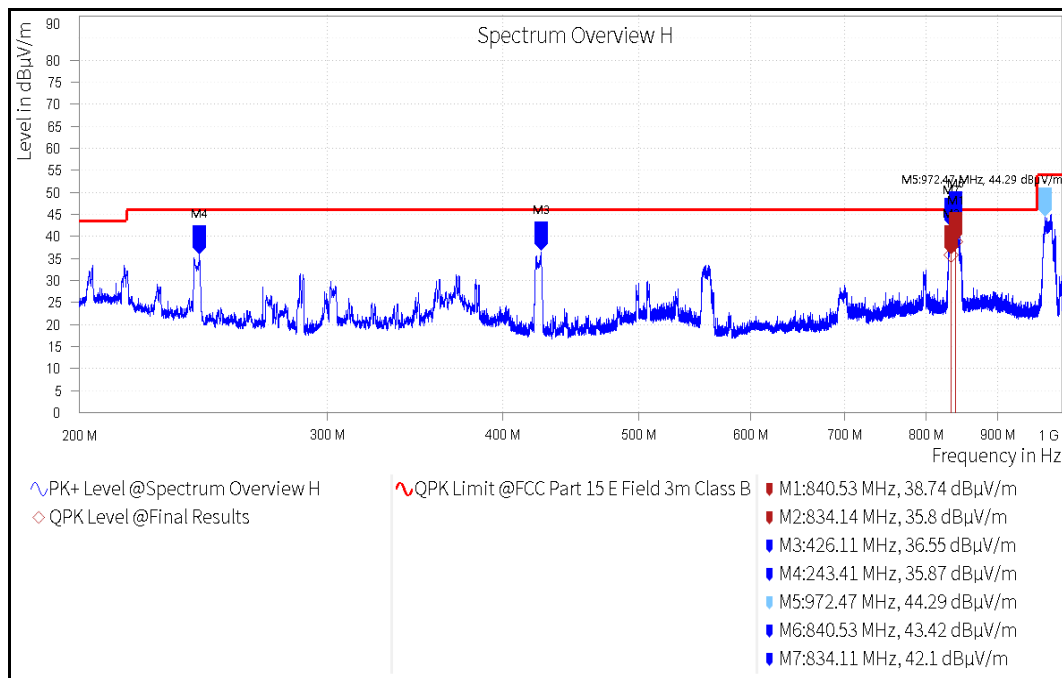
Polarization: Horizontal

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Frequency range: 200MHz – 1GHz

Polarization: Vertical



Frequency range: 200MHz – 1GHz

Polarization: Horizontal

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Test results for the frequencies above 1GHz:

Data Rate: 1Mbps

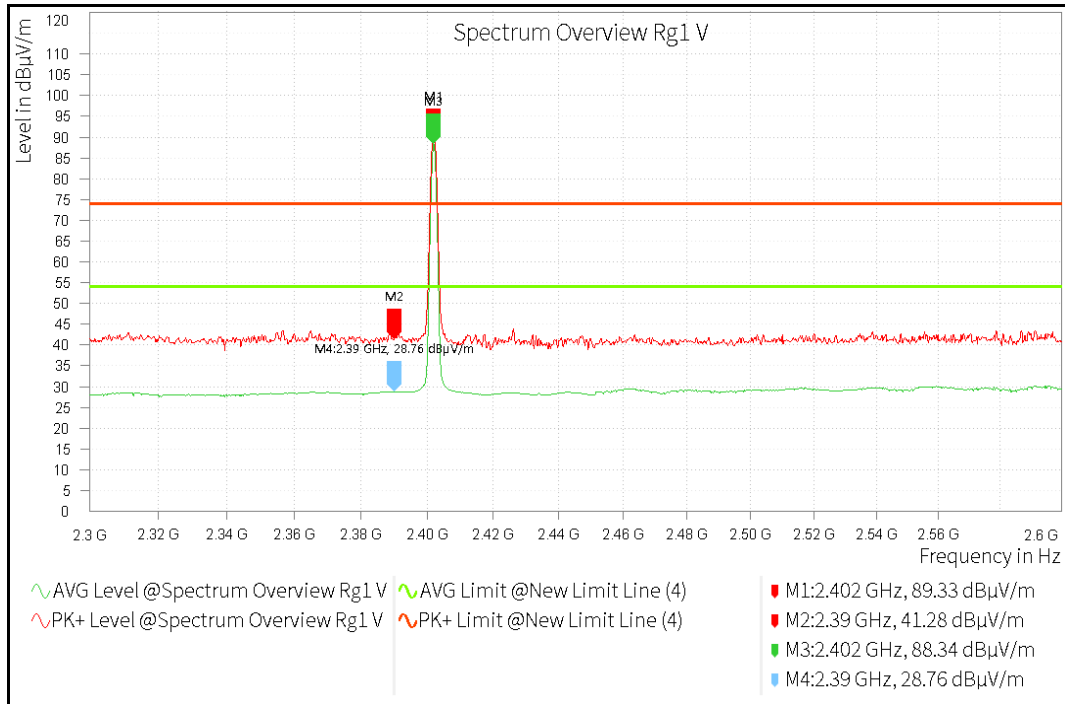
Table 9: 1Mbps Test results

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	2402(Pk)	Vertical	89.33	-	-
	2402(Av)		88.34	-	-
	2390(Pk)		41.28	74.00	-32.72
	2390(Av)		28.76	54.00	-25.24
	4804(Pk)		42.68	74.00	-31.32
	4804(Av)		31.15	54.00	-22.85
	7206(Pk)		49.11	74.00	-24.89
	7206(Av)		37.28	54.00	-16.72
	2402(Pk)	Horizontal	97.05	-	-
	2402(Av)		96.03	-	-
	2390(Pk)		44.44	74.00	-29.56
	2390(Av)		28.88	54.00	-25.12
	4804(Pk)		45.62	74.00	-28.38
	4804(Av)		36.58	54.00	-17.42
	7206(Pk)		48.94	74.00	-25.06
	7206(Av)		36.72	54.00	-17.28
2440	2440(Pk)	Vertical	88.81	-	-
	2440(Av)		87.81	-	-
	4880(Pk)		44.51	74.00	-29.49
	4880(Av)		31.69	54.00	-22.31
	7320(Pk)		49.30	74.00	-24.70
	7320(Av)		37.33	54.00	-16.67
	2440(Pk)	Horizontal	97.10	-	-
	2440(Av)		96.10	-	-
	4880(Pk)		47.78	74.00	-26.22
	4880(Av)		36.49	54.00	-17.51
2480	2480(Pk)	Vertical	87.85	-	-
	2480(Av)		86.87	-	-
	2483.5(Pk)		41.37	74.00	-32.63
	2483.5(Av)		29.85	54.00	-24.15
	4960(Pk)		46.23	74.00	-27.77
	4960(Av)		35.42	54.00	-18.58
	7440(Pk)		47.50	74.00	-26.50
	7440(Av)		36.33	54.00	-17.67
	2480(Pk)	Horizontal	94.93	-	-
	2480(Av)		93.95	-	-
	2483.5(Pk)		44.78	74.00	-29.22
	2483.5(Av)		32.64	54.00	-21.36
	4960(Pk)		52.10	74.00	-21.90
	4960(Av)		47.13	54.00	-6.87
	7440(Pk)		48.57	74.00	-25.43
	7440(Av)		36.66	54.00	-17.34

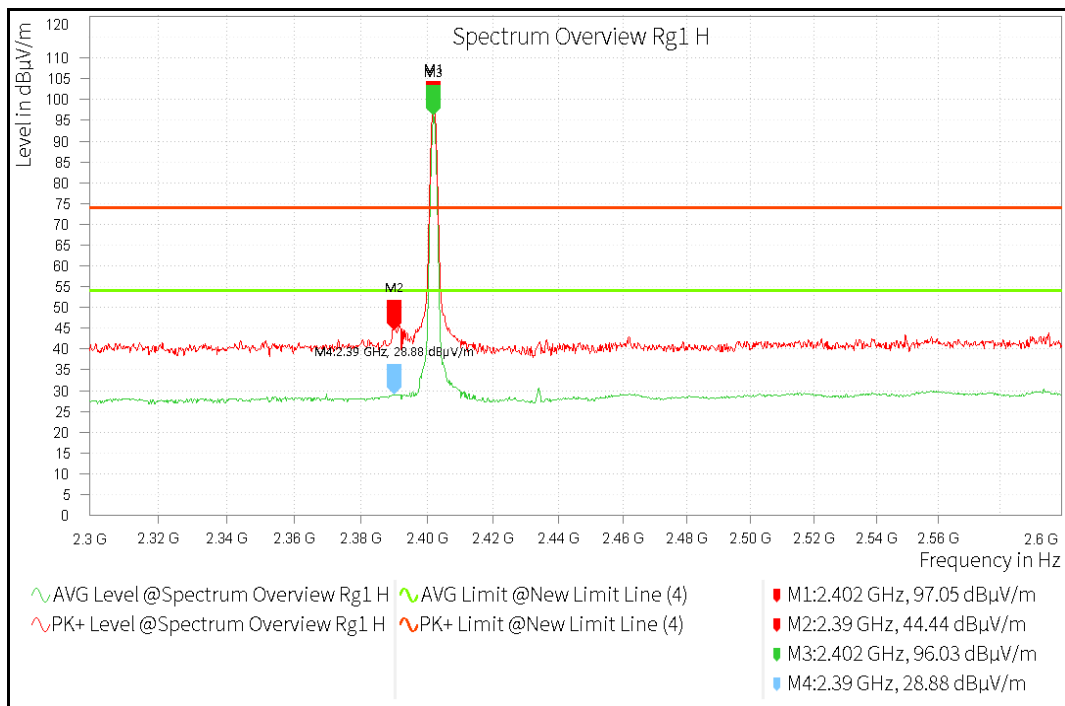
Report Reference. No.: 80260100023001

Test Plots:

Channel Frequency: 2402MHz

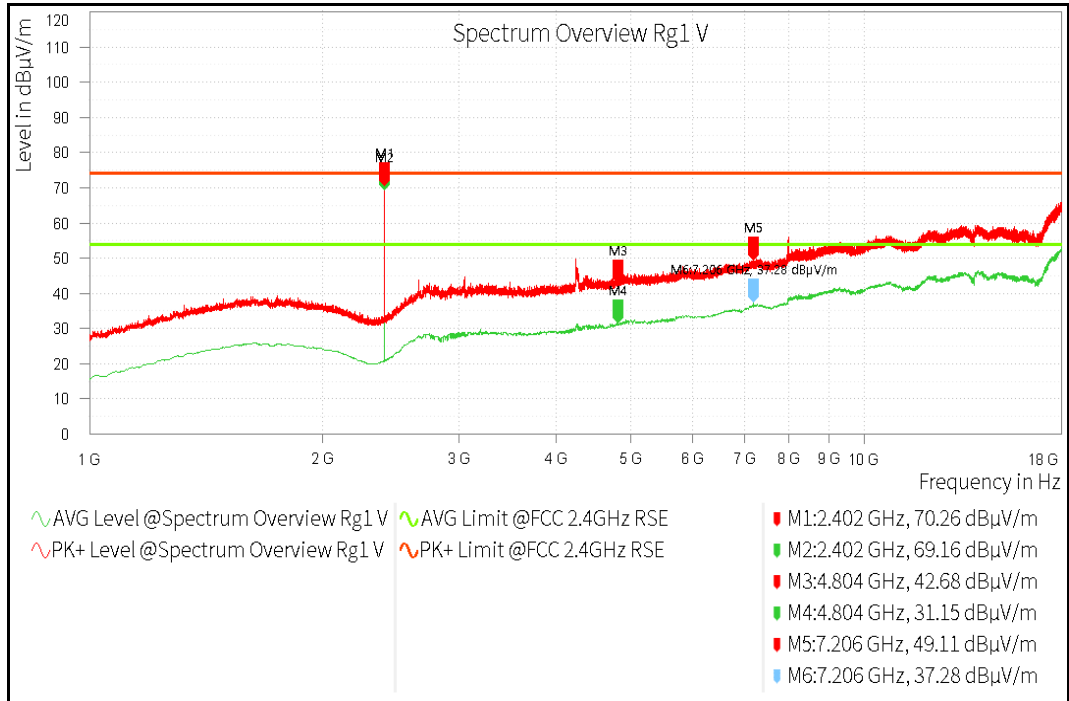


Polarization: Vertical



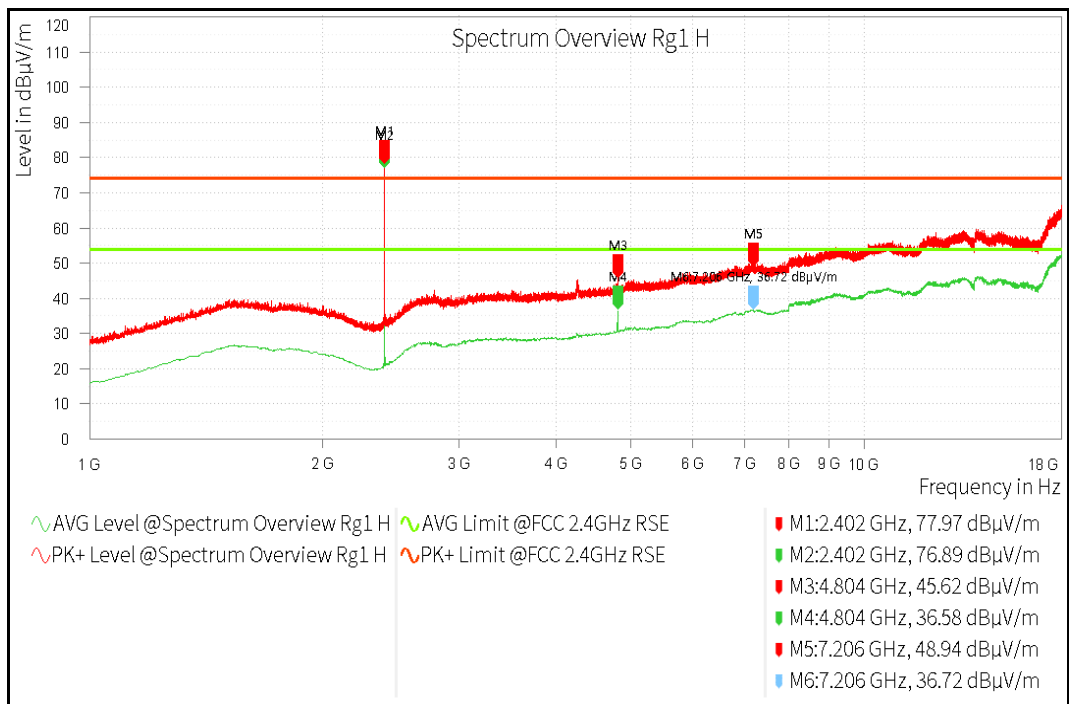
Polarization: Horizontal

Report Reference. No.: 80260100023001



Frequency Range: 1GHz-18GHz

Polarization: Vertical

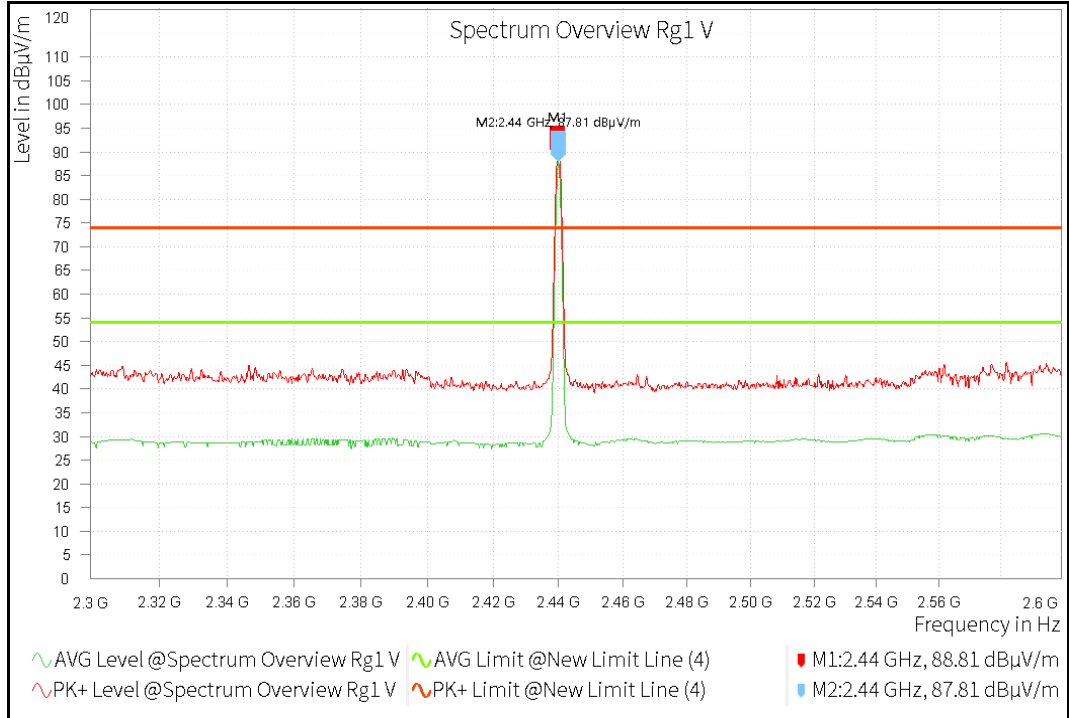


Frequency Range: 1GHz-18GHz

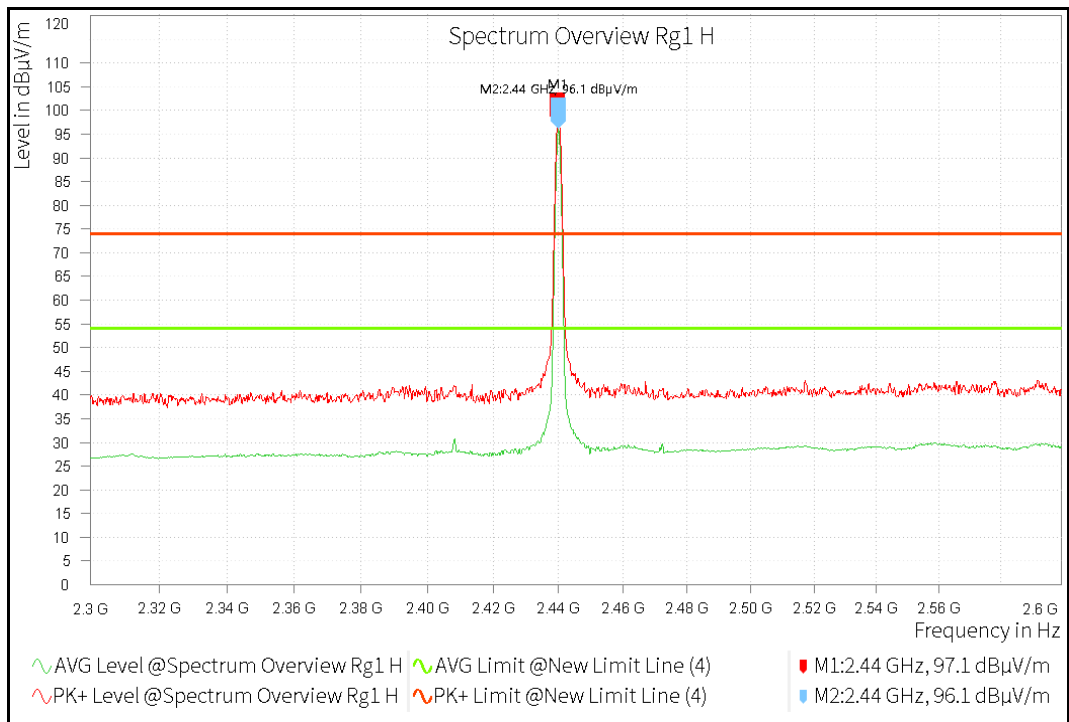
Polarization: Horizontal

Report Reference. No.: 80260100023001

Channel Frequency: 2440MHz

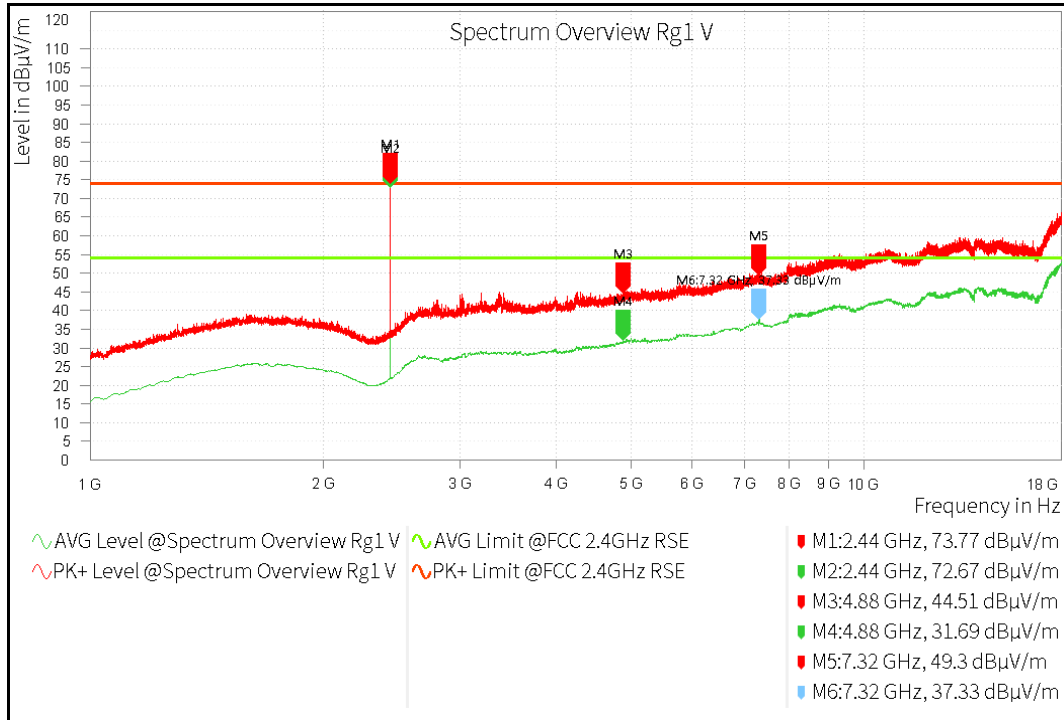


Polarization: Vertical



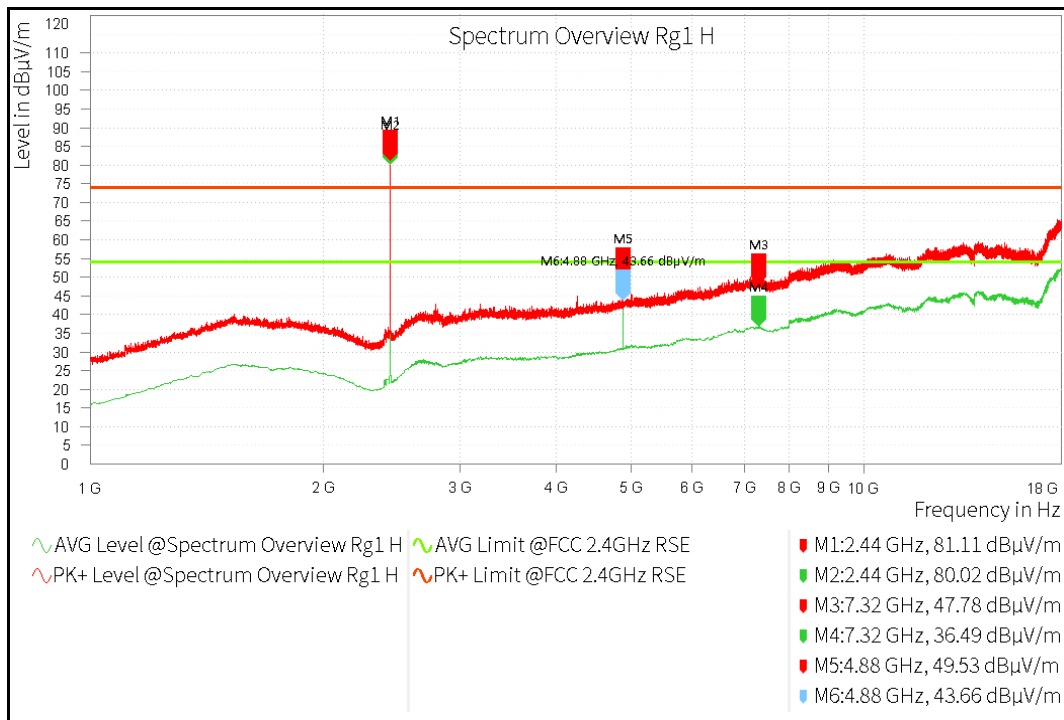
Polarization: Horizontal

Report Reference. No.: 80260100023001



Frequency Range: 1GHz-18GHz

Polarization: Vertical

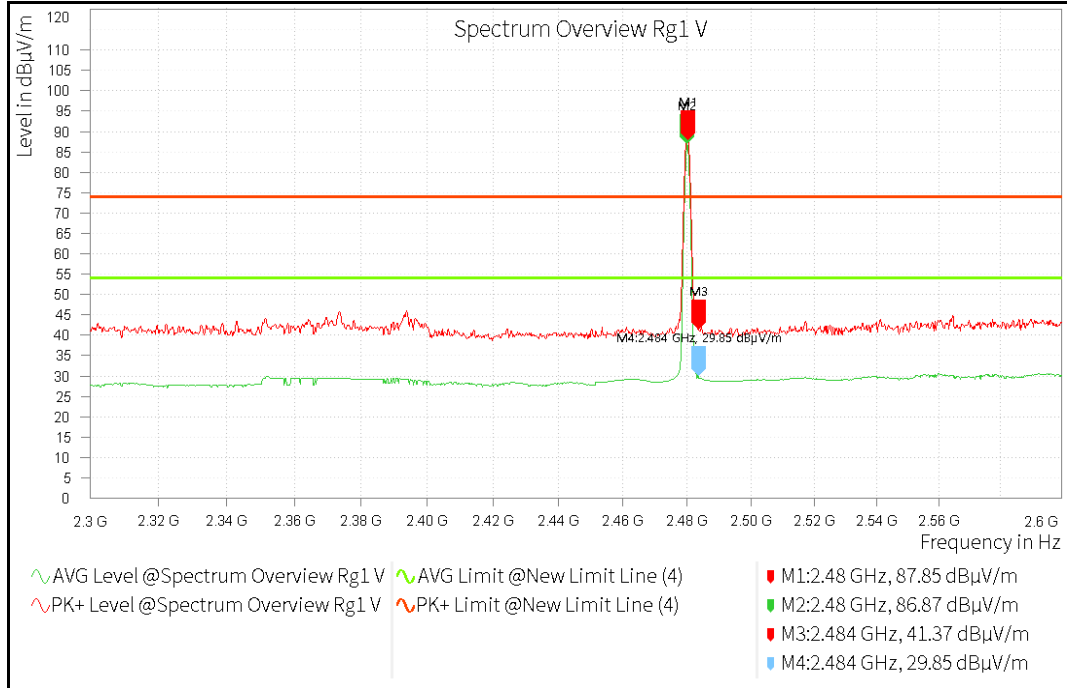


Frequency Range: 1GHz-18GHz

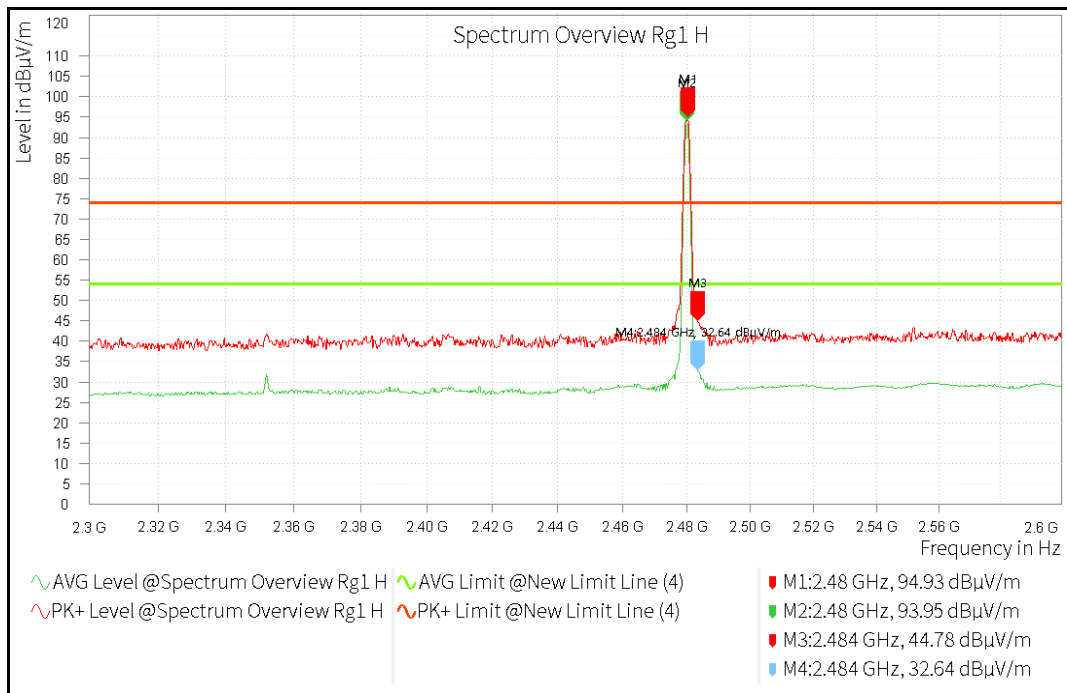
Polarization: Horizontal

Report Reference. No.: 80260100023001

Channel Frequency: 2480MHz

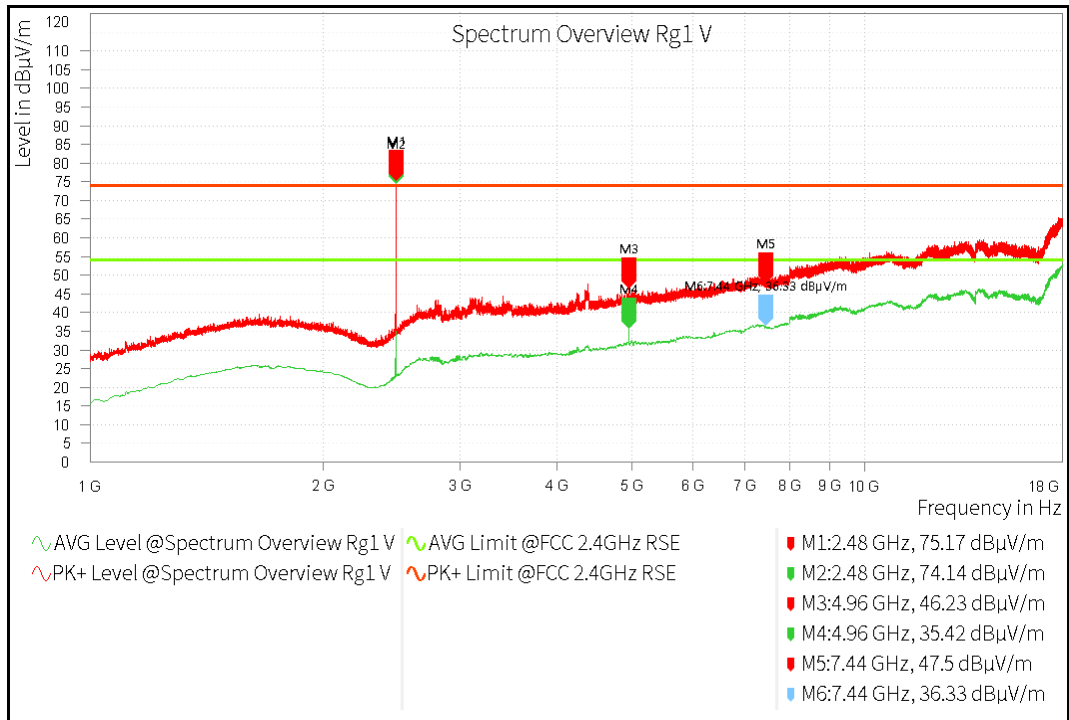


Polarization: Vertical



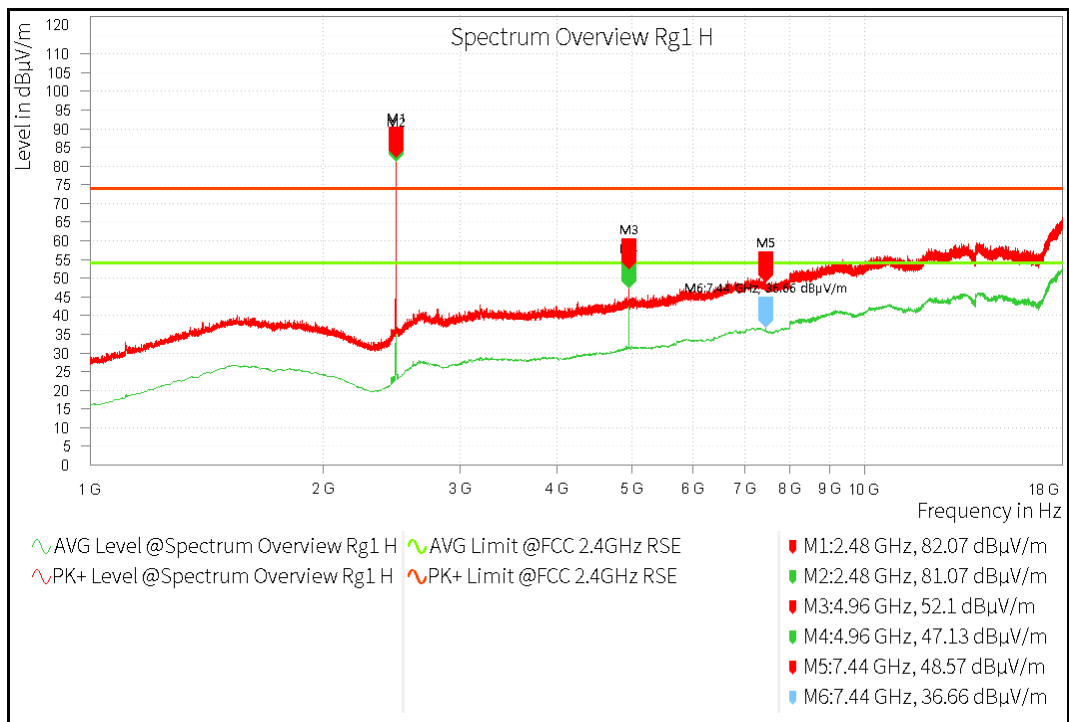
Polarization: Horizontal

Report Reference. No.: 80260100023001



Frequency Range: 1GHz-18GHz

Polarization: Vertical



Frequency Range: 1GHz-18GHz

Polarization: Horizontal

TEST REPORT

Report Reference. No.: 80260100023001

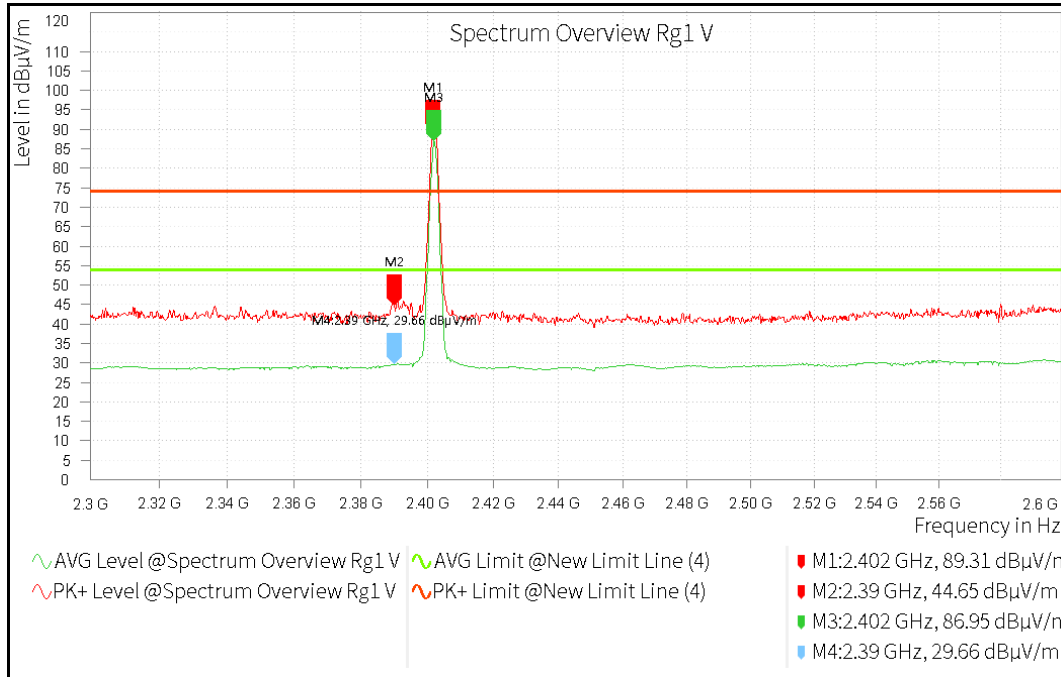
Data Rate: 2Mbps
Table 10: 2Mbps Test results

Channel Frequency (MHz)	Measured Frequency (MHz)	Antenna Polarization	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2402	2402(Pk)	Vertical	89.31	-	-
	2402(Av)		86.95	-	-
	2390(Pk)		44.65	74.00	-29.35
	2390(Av)		29.66	54.00	-24.34
	4804(Pk)		42.63	74.00	-31.37
	4804(Av)		31.11	54.00	-22.89
	7206(Pk)		47.44	74.00	-26.56
	7206(Av)		36.19	54.00	-17.81
	2402(Pk)	Horizontal	97.10	-	-
	2402(Av)		94.73	-	-
	2390(Pk)		41.72	74.00	-32.28
	2390(Av)		28.83	54.00	-25.17
	4804(Pk)		44.79	74.00	-29.21
	4804(Av)		34.25	54.00	-19.75
	7206(Pk)		48.49	74.00	-25.51
	7206(Av)		36.59	54.00	-17.41
2440	2440(Pk)	Vertical	88.97	-	-
	2440(Av)		86.50	-	-
	4880(Pk)		43.81	74.00	-30.19
	4880(Av)		31.92	54.00	-22.08
	7320(Pk)		49.09	74.00	-24.91
	7320(Av)		36.99	54.00	-17.01
	2440(Pk)	Horizontal	97.09	-	-
	2440(Av)		94.62	-	-
	4880(Pk)		49.08	74.00	-24.92
	4880(Av)		40.20	54.00	-13.80
	7320(Pk)		48.59	74.00	-25.41
	7320(Av)		37.12	54.00	-16.88
2480	2480(Pk)	Vertical	87.72	-	-
	2480(Av)		85.21	-	-
	2483.5(Pk)		44.91	74.00	-29.09
	2483.5(Av)		32.01	54.00	-21.99
	4960(Pk)		44.98	74.00	-29.02
	4960(Av)		33.81	54.00	-20.19
	7440(Pk)		47.49	74.00	-26.51
	7440(Av)		36.04	54.00	-17.96
	2480(Pk)	Horizontal	94.92	-	-
	2480(Av)		92.37	-	-
	2483.5(Pk)		50.77	74.00	-23.23
	2483.5(Av)		37.52	54.00	-16.48
	4960(Pk)		52.53	74.00	-21.47
	4960(Av)		44.26	54.00	-9.74
	7440(Pk)		49.19	74.00	-24.81
	7440(Av)		36.43	54.00	-17.57

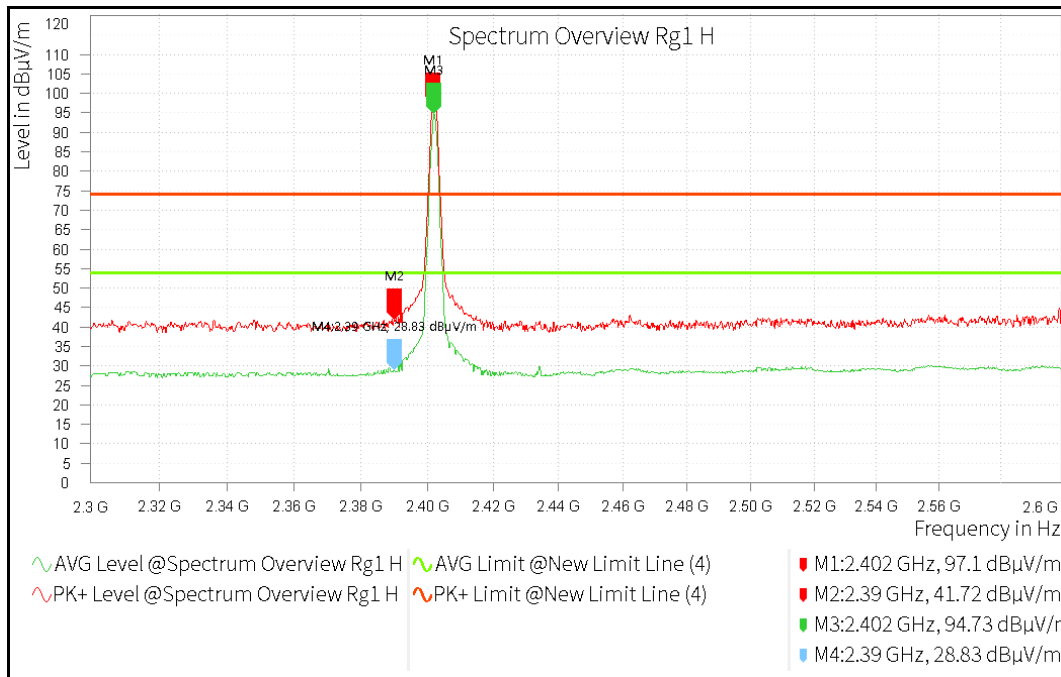
Report Reference. No.: 80260100023001

Test Plots:

Channel Frequency: 2402MHz

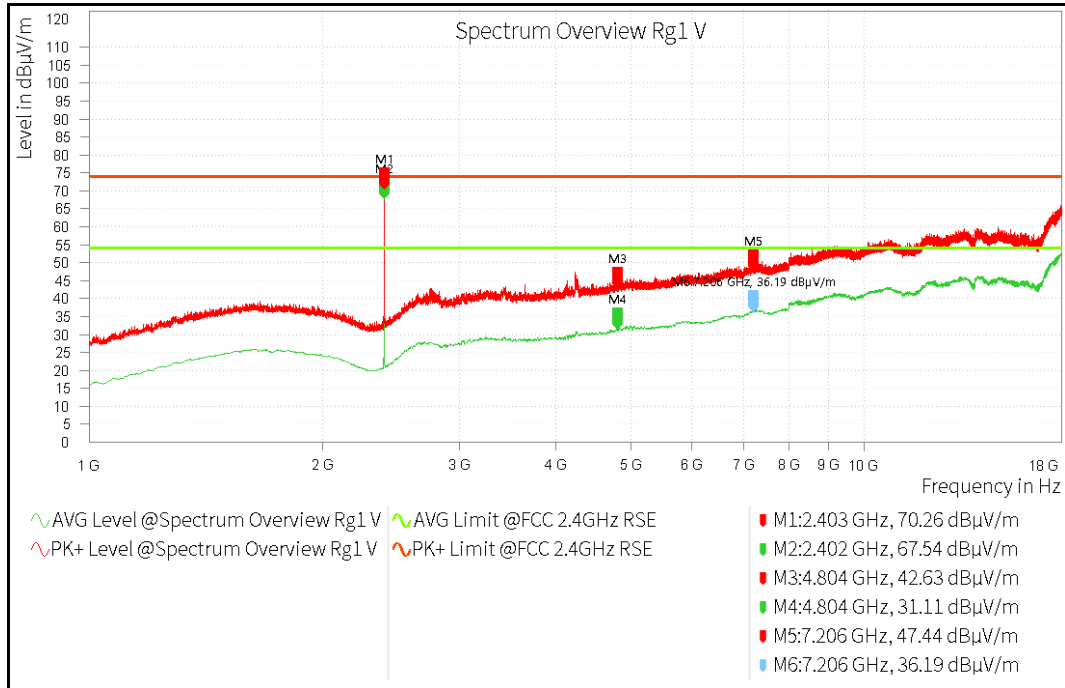


Polarization: Vertical



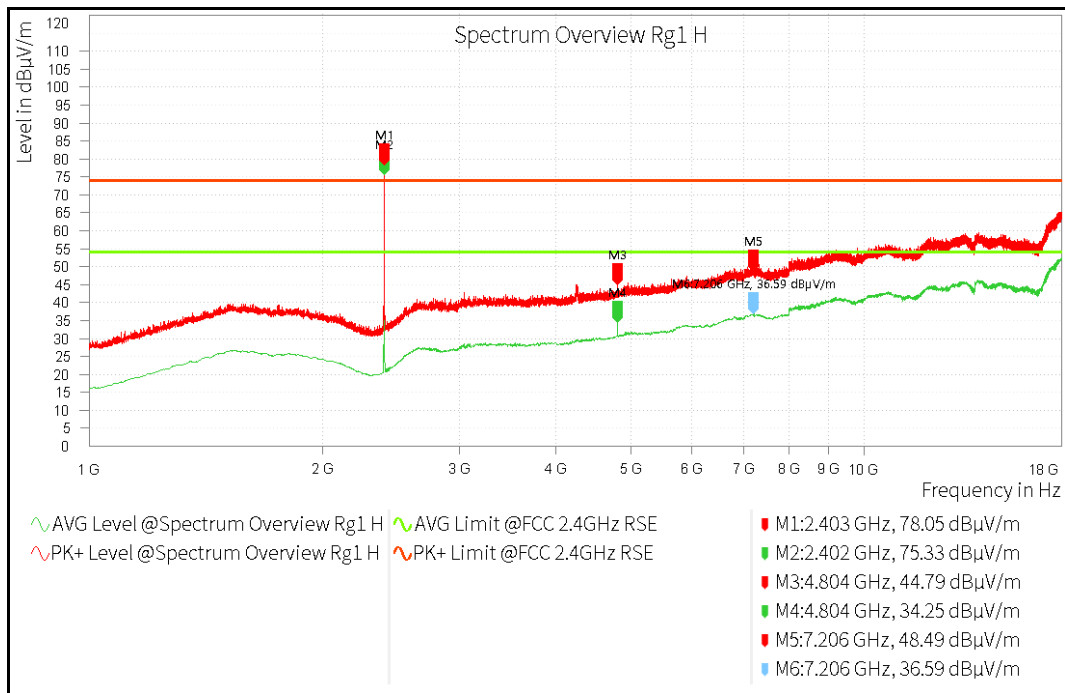
Polarization: Horizontal

Report Reference. No.: 80260100023001



Frequency Range: 1GHz-18GHz

Polarization: Vertical

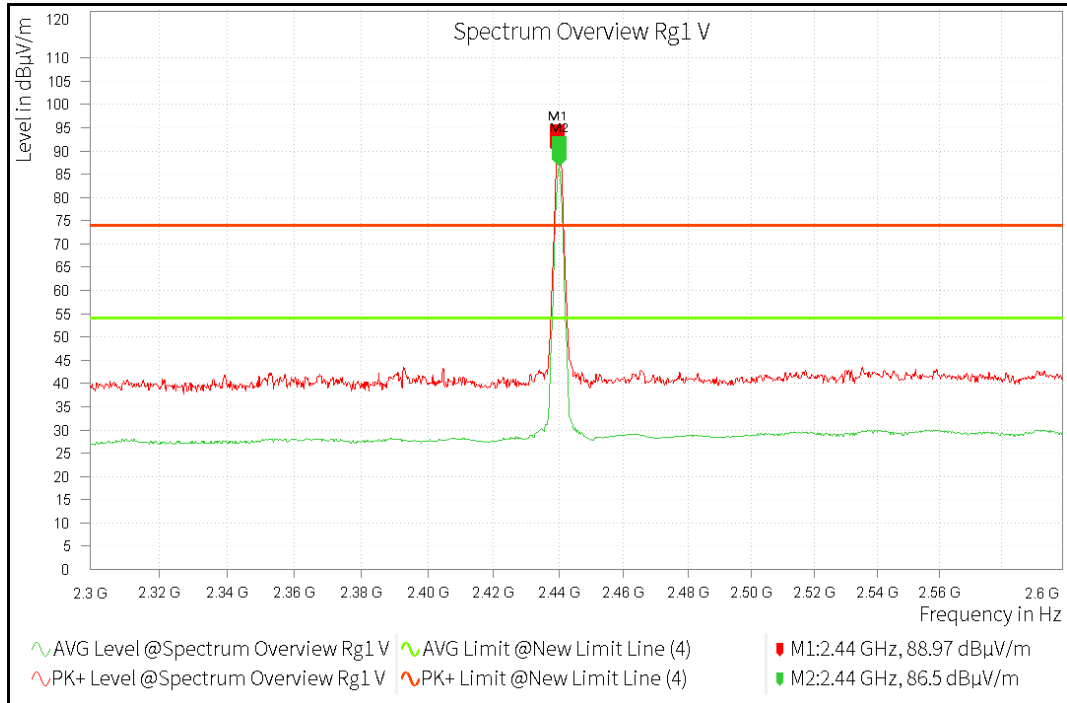


Frequency Range: 1GHz-18GHz

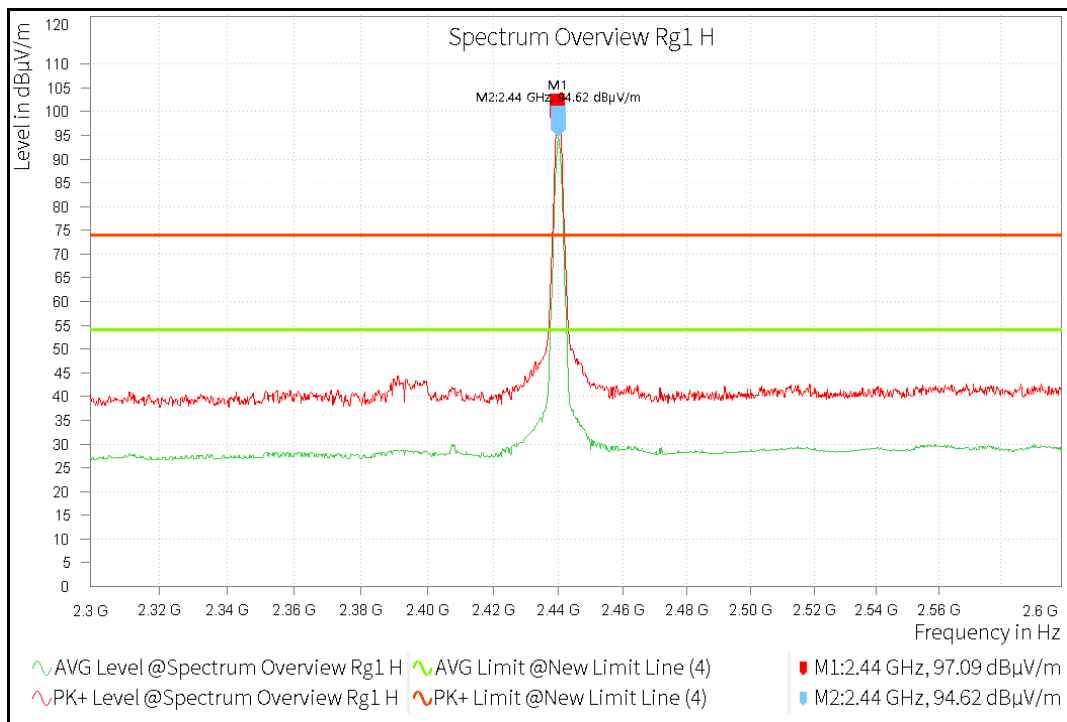
Polarization: Horizontal

Report Reference. No.: 80260100023001

Channel Frequency: 2440MHz

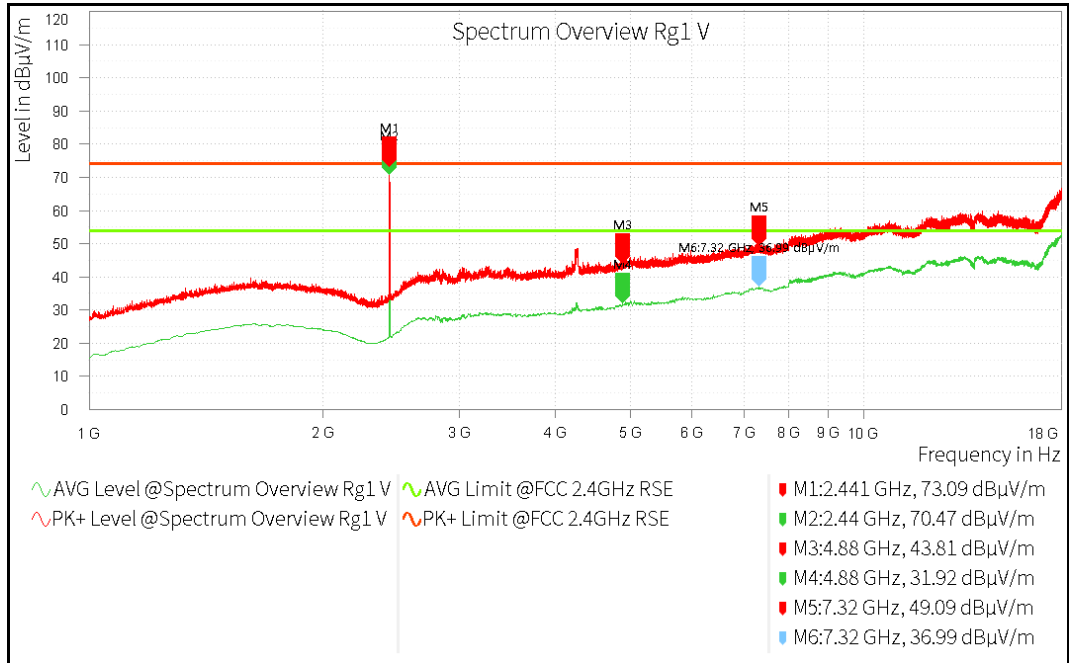


Polarization: Vertical



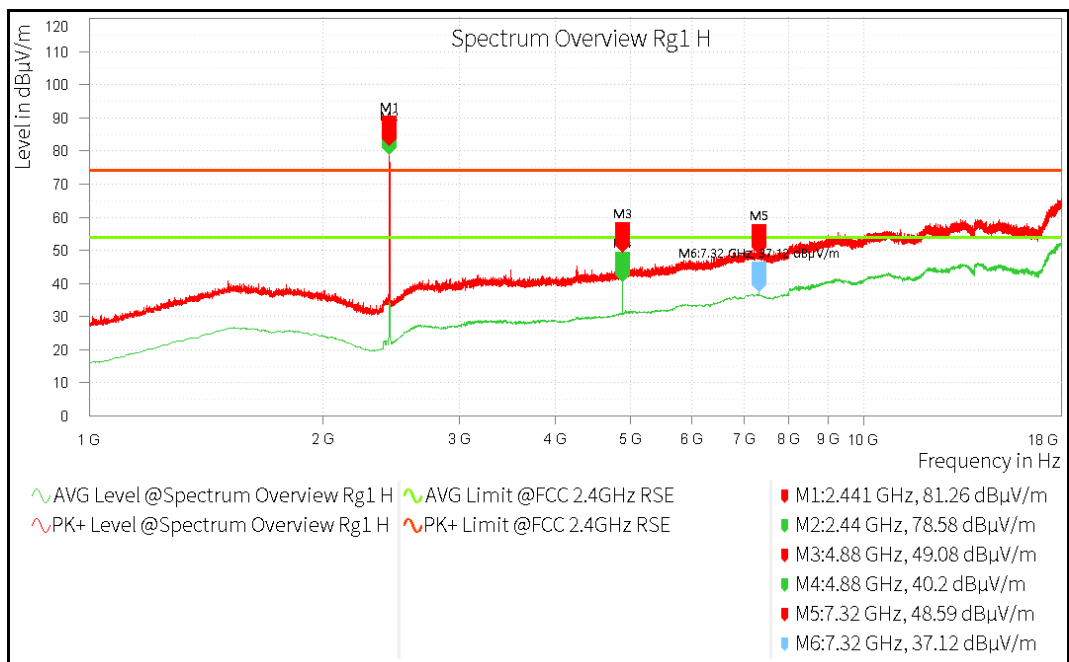
Polarization: Horizontal

Report Reference. No.: 80260100023001



Frequency Range: 1GHz-18GHz

Polarization: Vertical

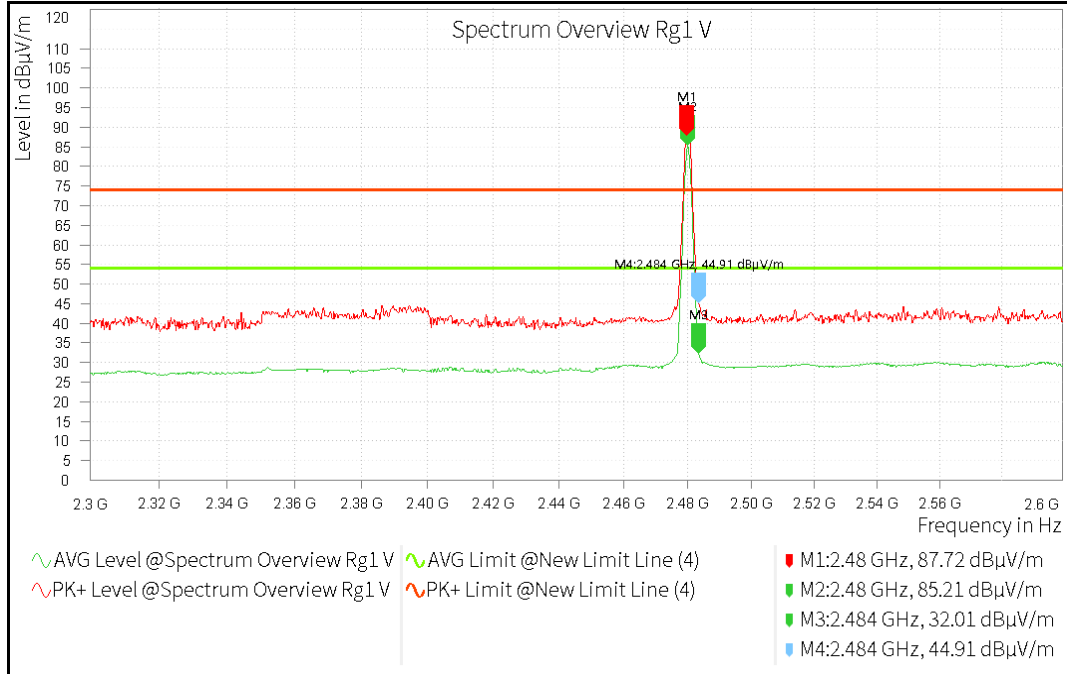


Frequency Range: 1GHz-18GHz

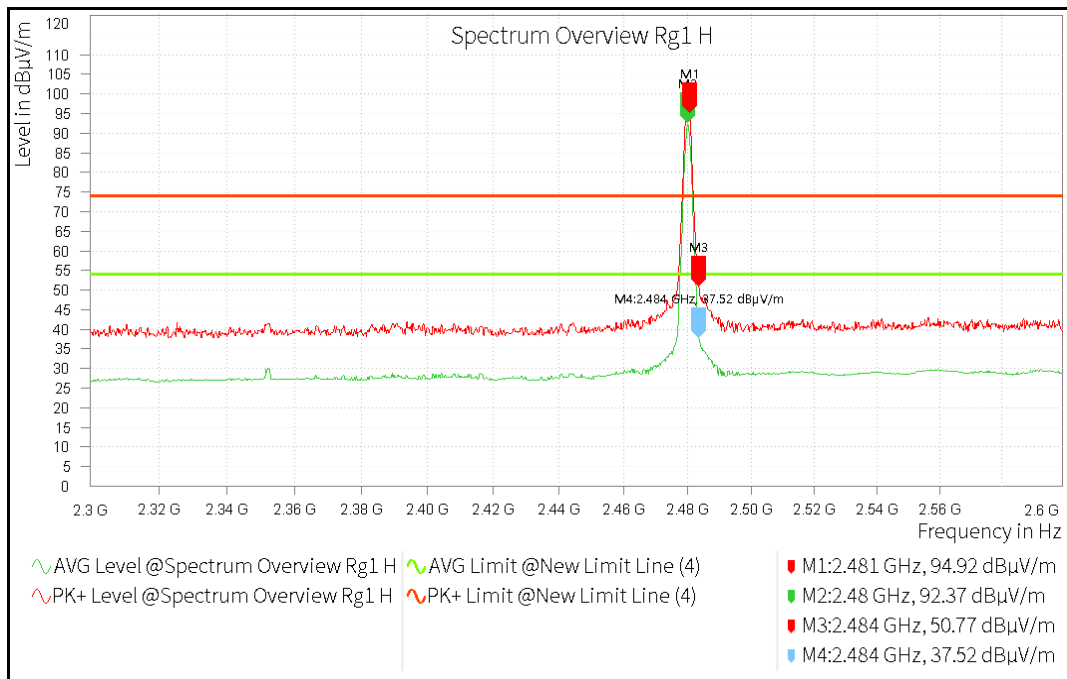
Polarization: Horizontal

Report Reference. No.: 80260100023001

Channel Frequency: 2480MHz

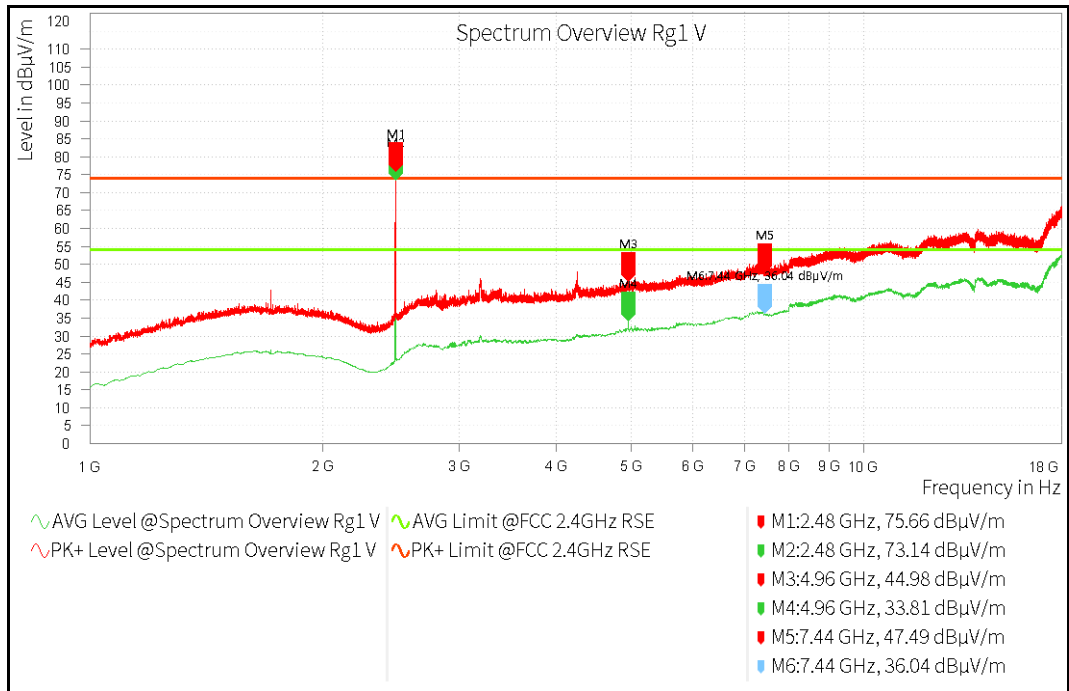


Polarization: Vertical



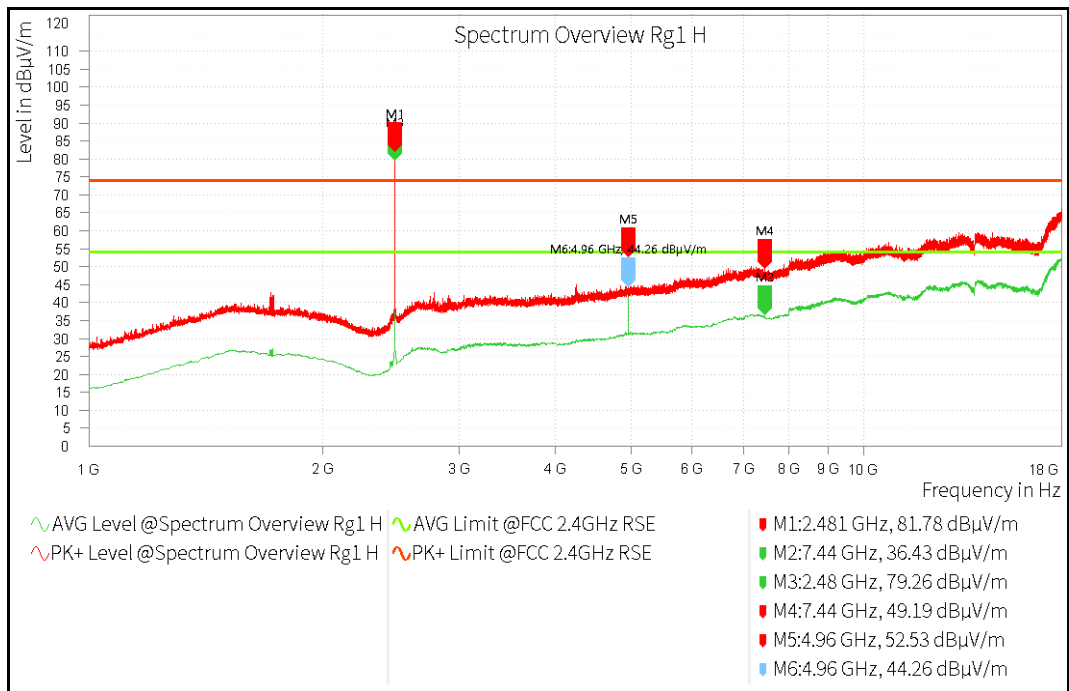
Polarization: Horizontal

Report Reference. No.: 80260100023001



Frequency Range: 1GHz-18GHz

Polarization: Vertical



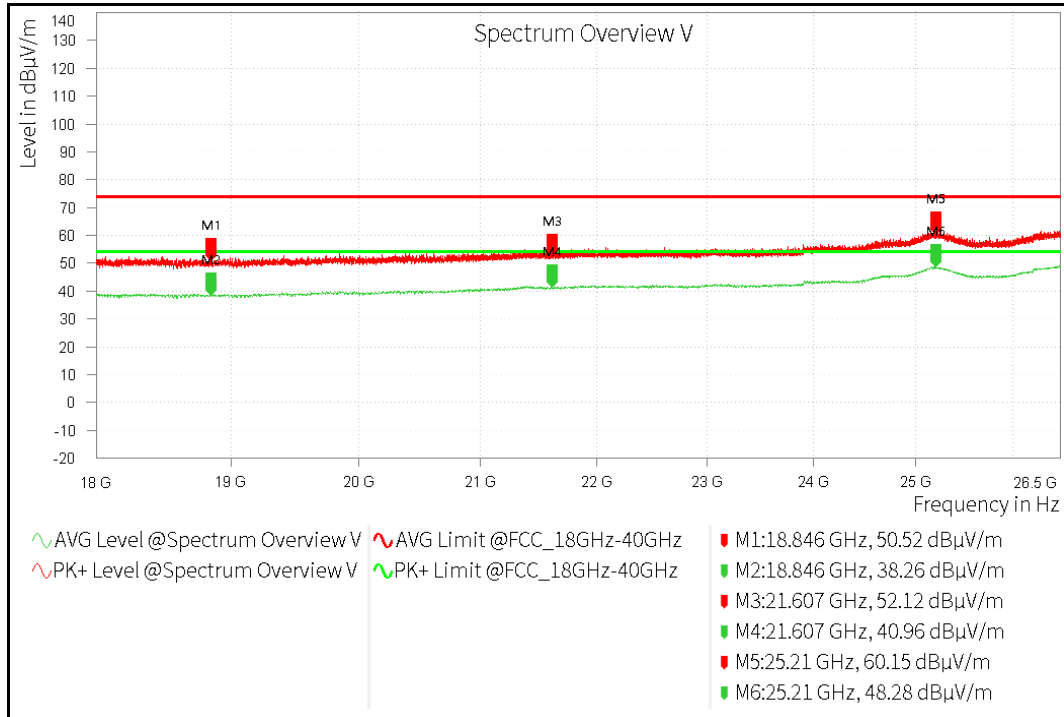
Frequency Range: 1GHz-18GHz

Polarization: Horizontal

Report Reference. No.: 80260100023001

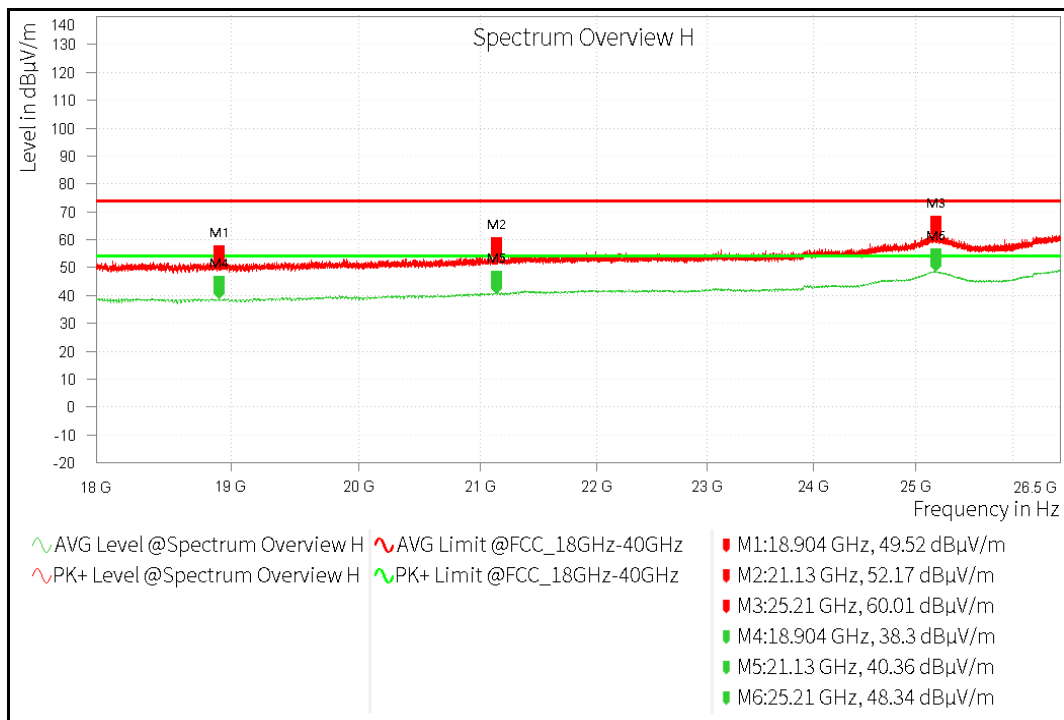
Test Plots for above 18GHz:

Channel Frequency: 2402MHz



Frequency Range: 18GHz-26.5GHz

Polarization: Vertical



Frequency Range: 18GHz-26.5GHz

Polarization: Horizontal

Report Reference. No.: 80260100023001

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-----End of Report-----