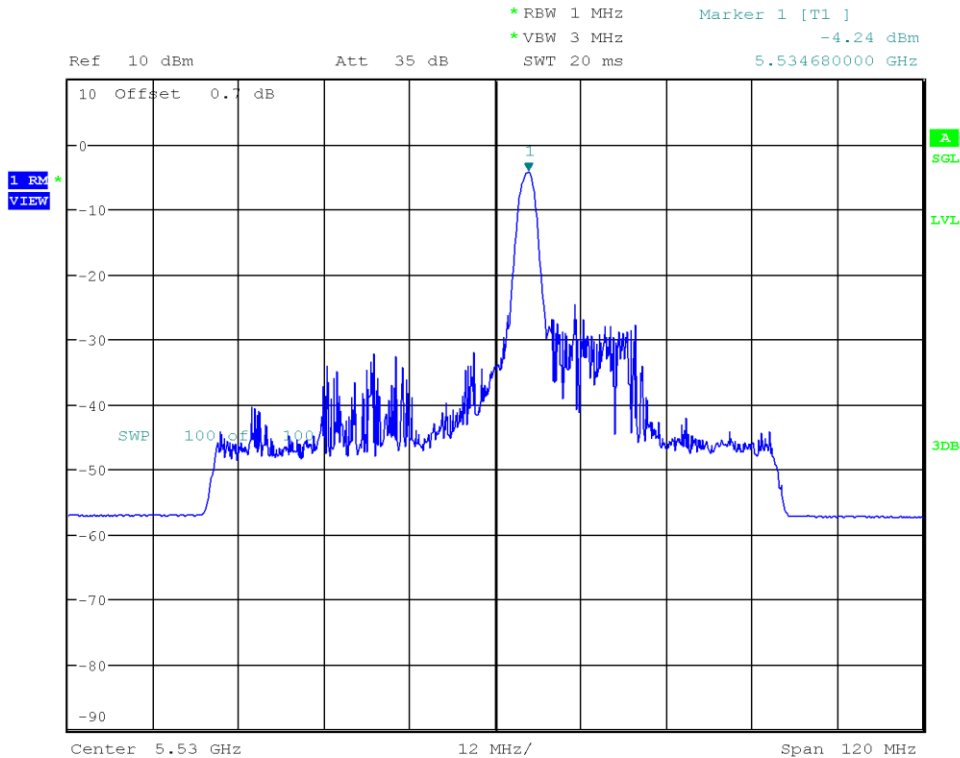


Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE80-TB), Channel: 106, 5530 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 26 tones
 Maximum Frequency [MHz]: 5534.680
 Spectral Density [dBm/RBW]: -4.240
 Resolution Bandwidth [MHz]: 1



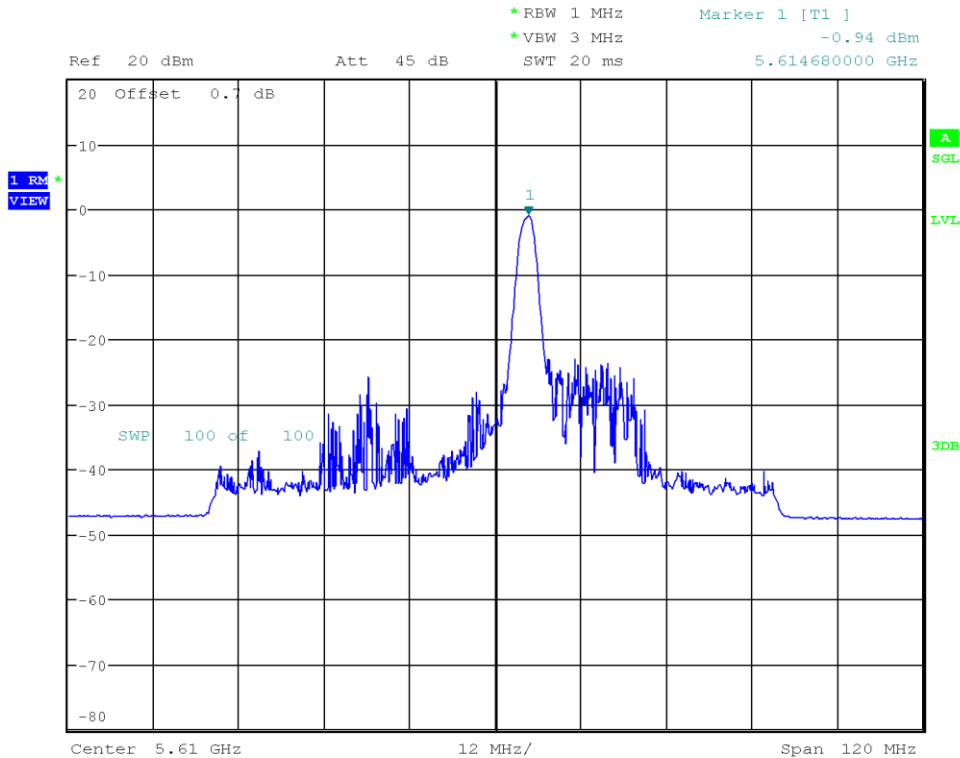
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE80-TB), Channel: 122, 5610 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 26 tones
 Maximum Frequency [MHz]: 5614.680
 Spectral Density [dBm/RBW]: -0.940
 Resolution Bandwidth [MHz]: 1



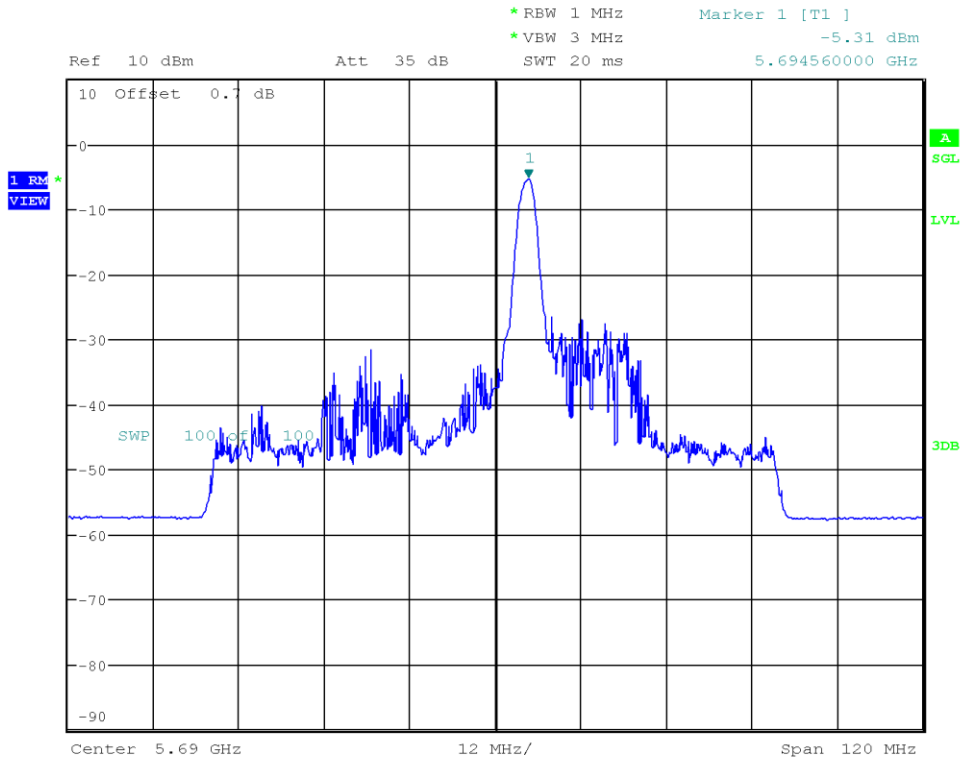
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE80-TB), Channel: 138, 5690 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 26 tones
 Maximum Frequency [MHz]: 5694.560
 Spectral Density [dBm/RBW]: -5.312
 Resolution Bandwidth [MHz]: 1



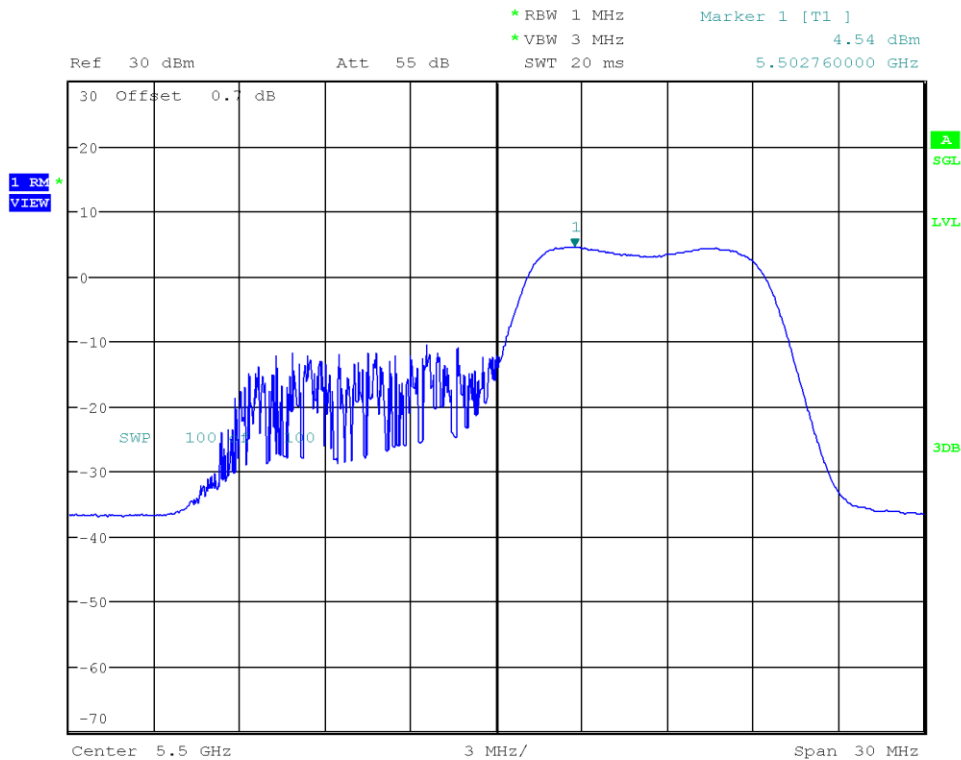
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-SU ER), Channel: 100, 5500 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5502.760
 Spectral Density [dBm/RBW]: 4.542
 Resolution Bandwidth [MHz]: 1



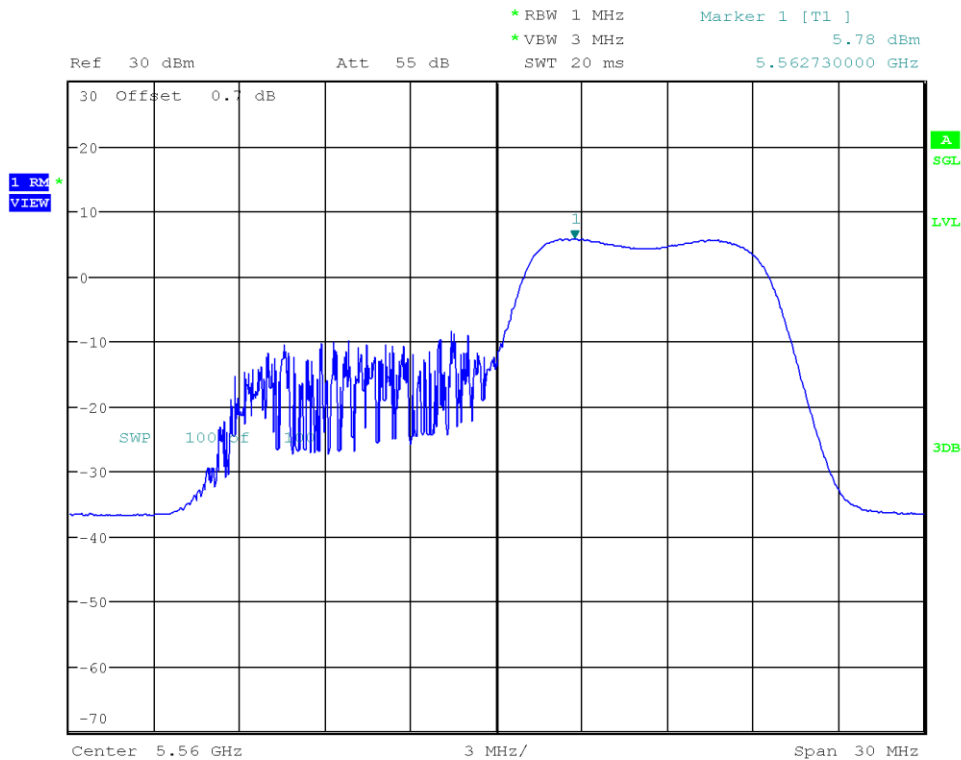
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-SU ER), Channel: 112, 5560 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5562.730
 Spectral Density [dBm/RBW]: 5.776
 Resolution Bandwidth [MHz]: 1



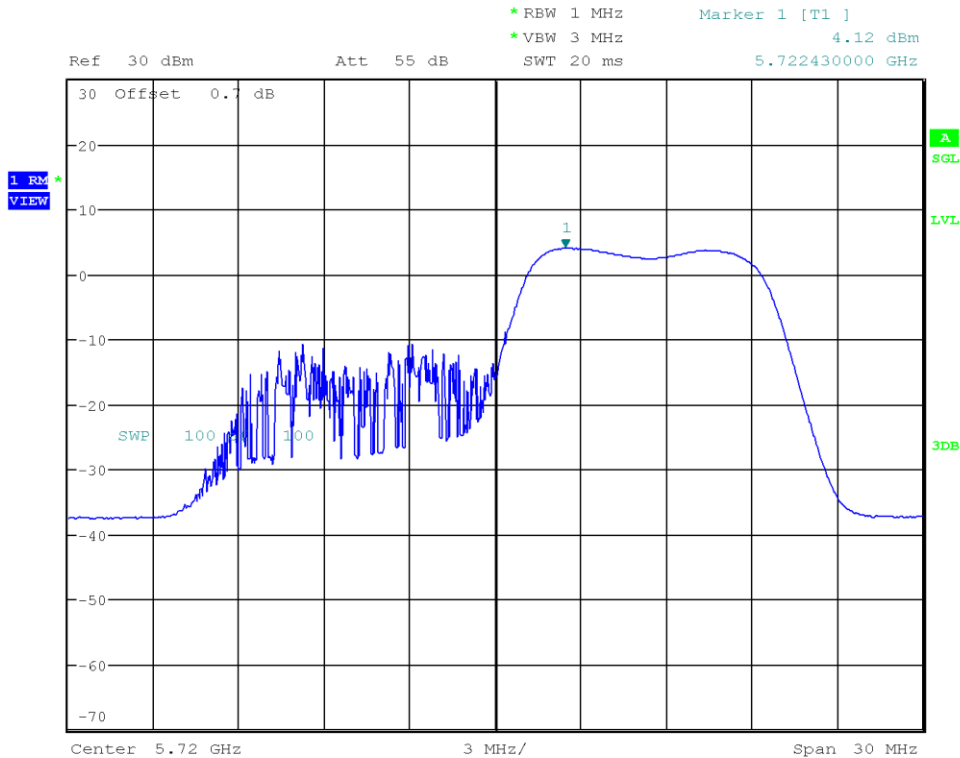
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-SU ER), Channel: 144, 5720 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5722.430
 Spectral Density [dBm/RBW]: 4.117
 Resolution Bandwidth [MHz]: 1



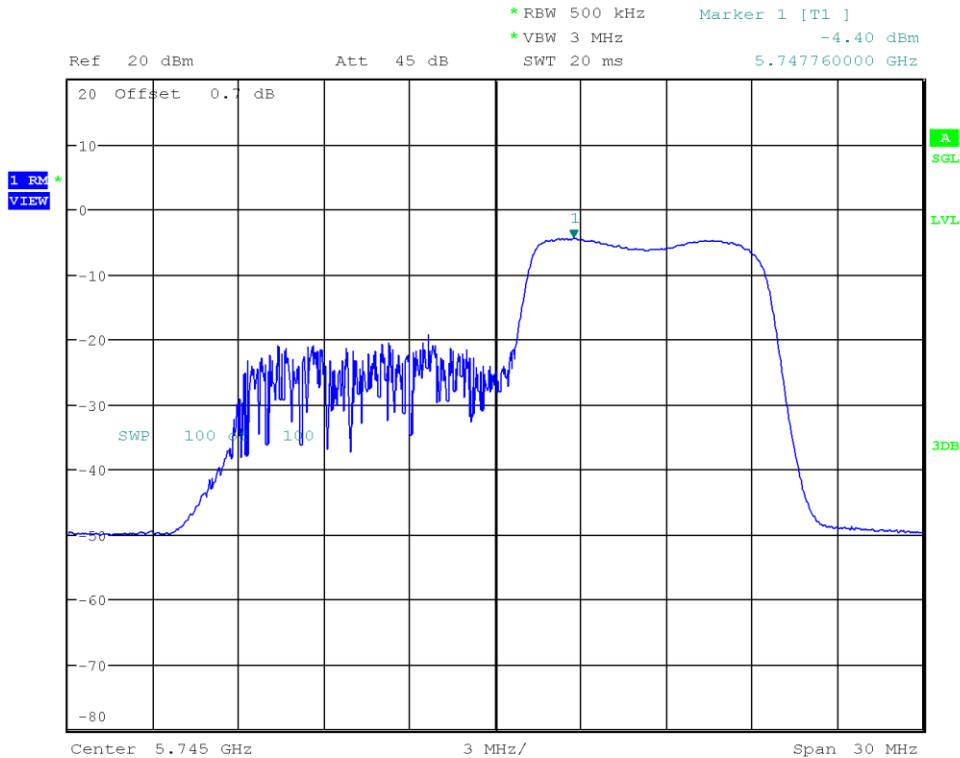
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-TB), Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5747.760
 Spectral Density [dBm/RBW]: -4.398
 Resolution Bandwidth [MHz]: 0.5



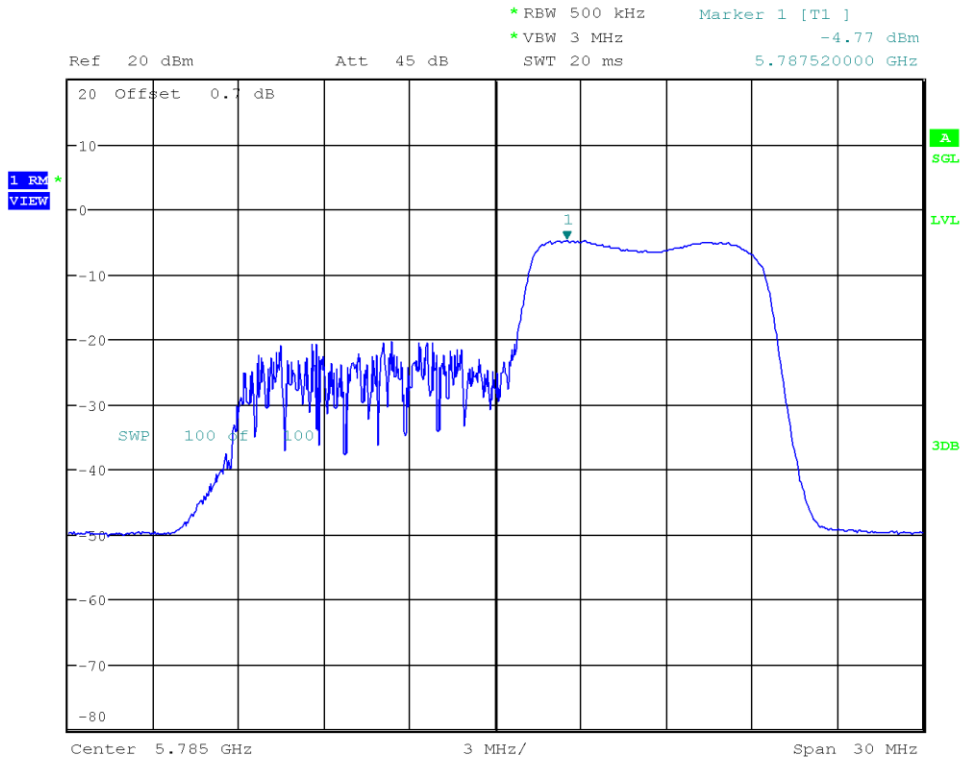
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-TB), Channel: 157, 5785 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5787.520
 Spectral Density [dBm/RBW]: -4.772
 Resolution Bandwidth [MHz]: 0.5



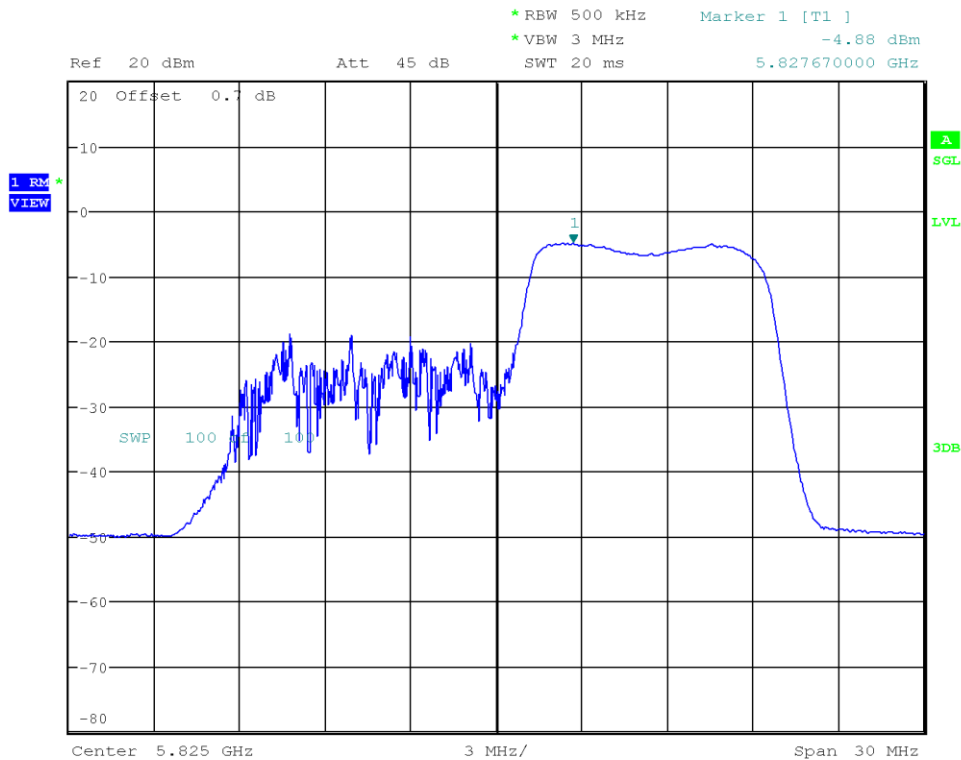
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-TB), Channel: 165, 5825 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5827.670
 Spectral Density [dBm/RBW]: -4.881
 Resolution Bandwidth [MHz]: 0.5



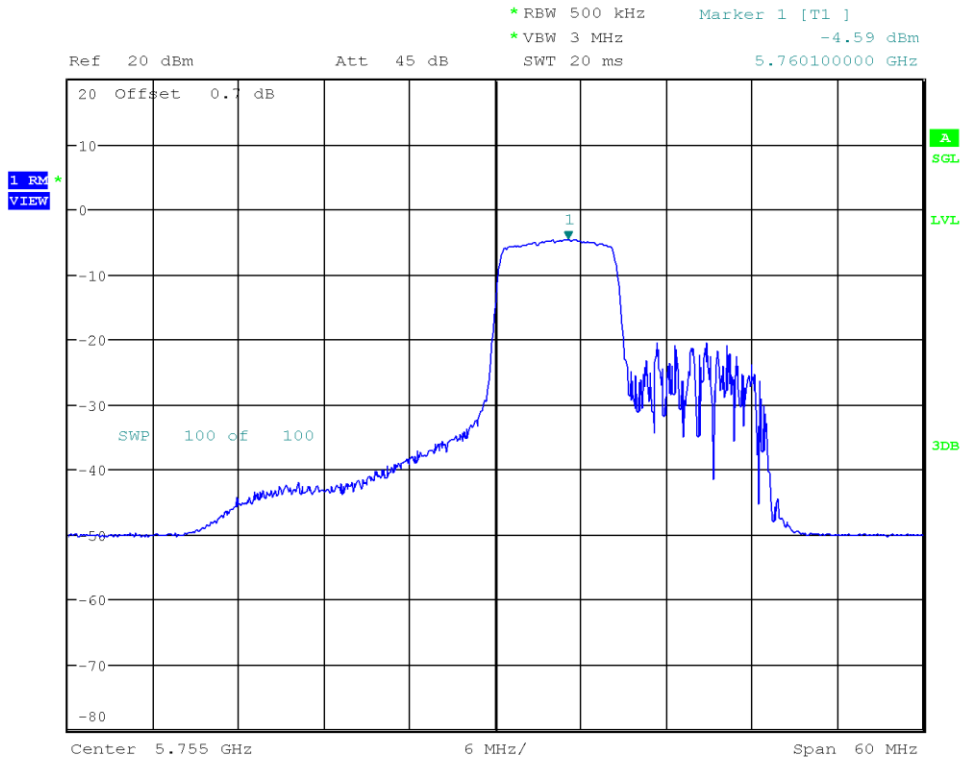
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE40-TB), Channel: 151, 5755 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5760.100
 Spectral Density [dBm/RBW]: -4.592
 Resolution Bandwidth [MHz]: 0.5



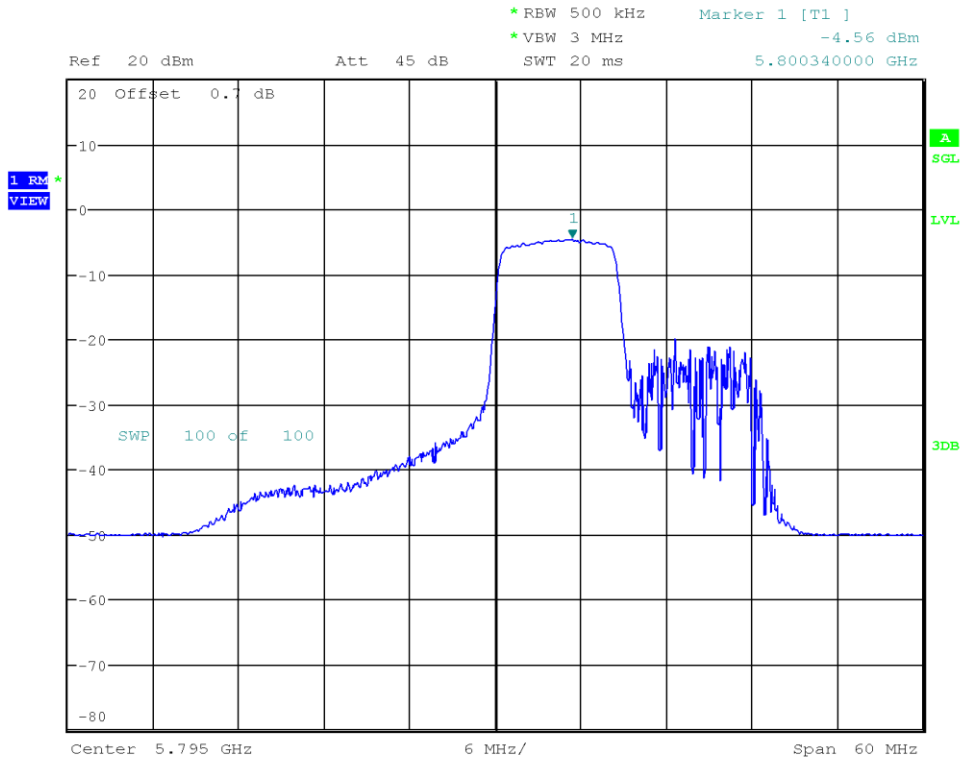
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE40-TB), Channel: 159, 5795 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5800.340
 Spectral Density [dBm/RBW]: -4.563
 Resolution Bandwidth [MHz]: 0.5



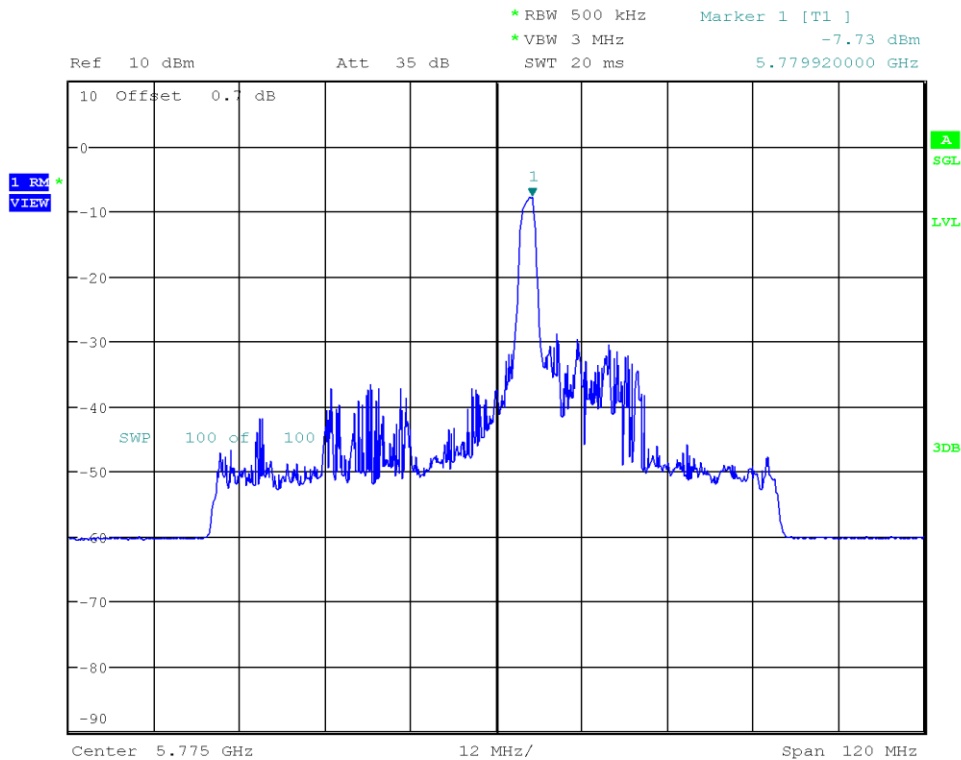
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE80-TB), Channel: 155, 5775 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 26 tones
 Maximum Frequency [MHz]: 5779.920
 Spectral Density [dBm/RBW]: -7.731
 Resolution Bandwidth [MHz]: 0.5



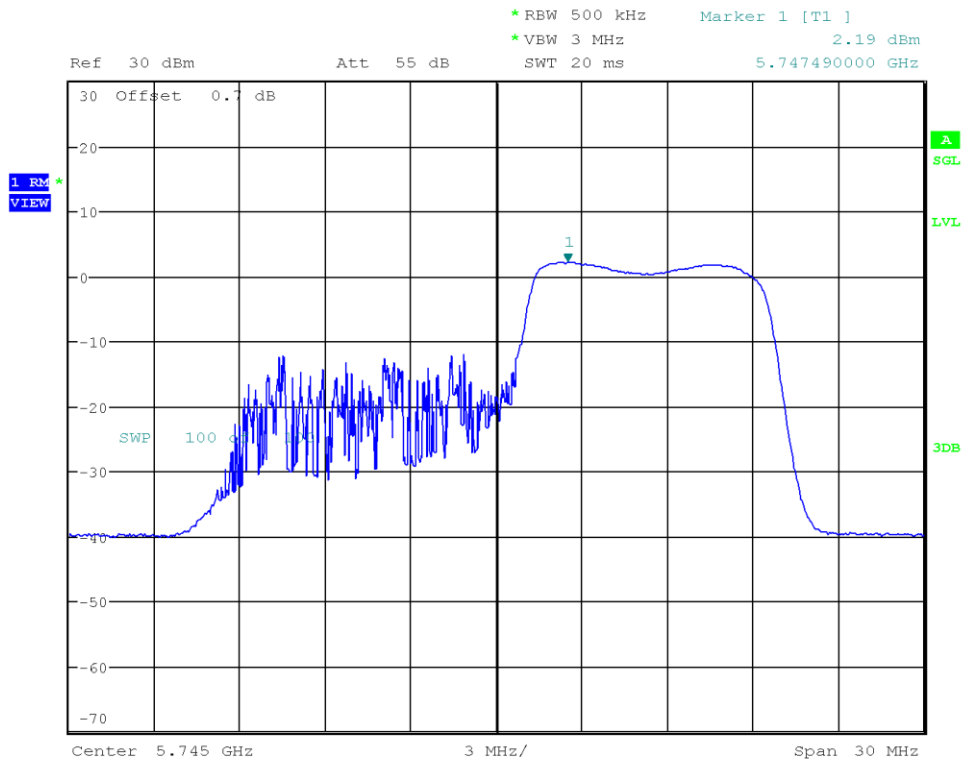
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-SU ER), Channel: 149, 5745 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5747.490
 Spectral Density [dBm/RBW]: 2.192
 Resolution Bandwidth [MHz]: 0.5



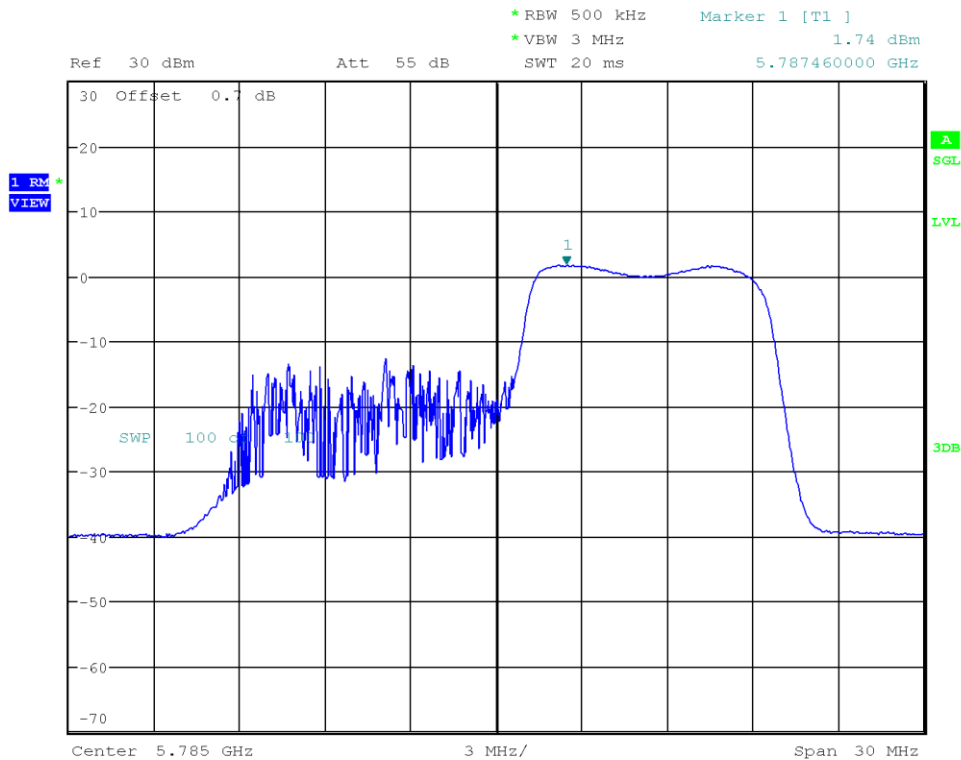
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Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-SU ER), Channel: 157, 5785 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5787.460
 Spectral Density [dBm/RBW]: 1.742
 Resolution Bandwidth [MHz]: 0.5



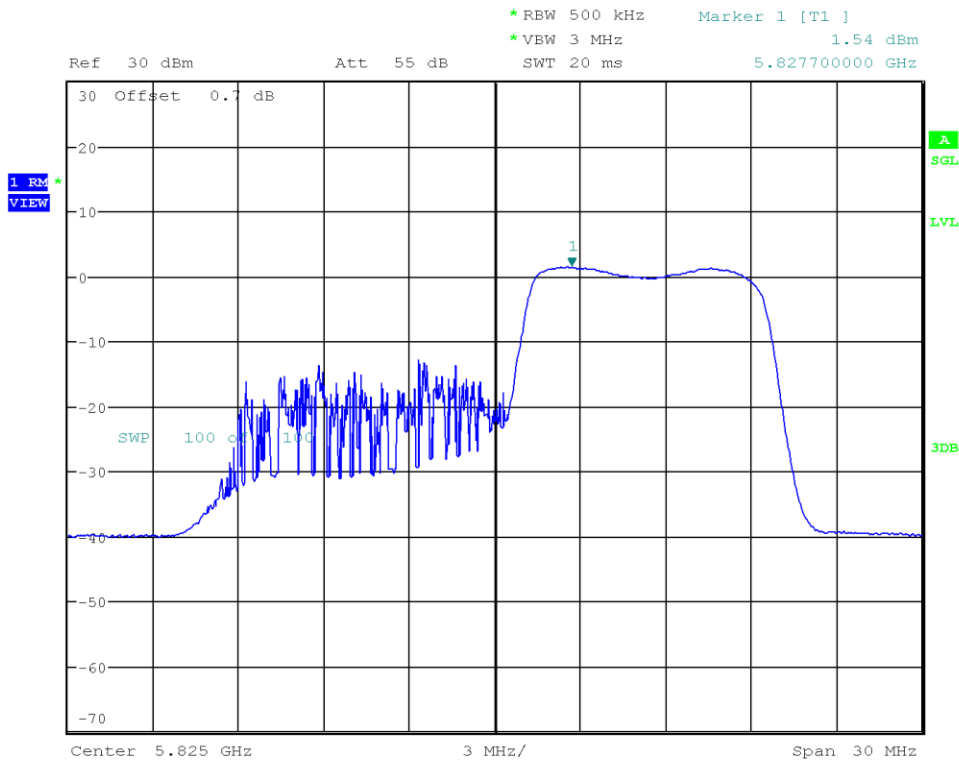
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Test Report No.: G0M-2309-2215-TFC407WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Maximum Power Spectral Density

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Reference Standards: FCC 15.407, RSS-247
 Reference Method: ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
 Operational Mode: IEEE 802.11ax (HE20-SU ER), Channel: 165, 5825 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Azamat Ibraimov
 Test Site: Eurofins Product Service GmbH
 Test Date: 2024-02-28
 Number of Antenna Ports: 1
 Note: 106 tones
 Maximum Frequency [MHz]: 5827.700
 Spectral Density [dBm/RBW]: 1.537
 Resolution Bandwidth [MHz]: 0.5



Date: 28.FEB.2024 11:27:43

3.6 Test Conditions and Results - Transmitter radiated emissions

3.6.1 Information

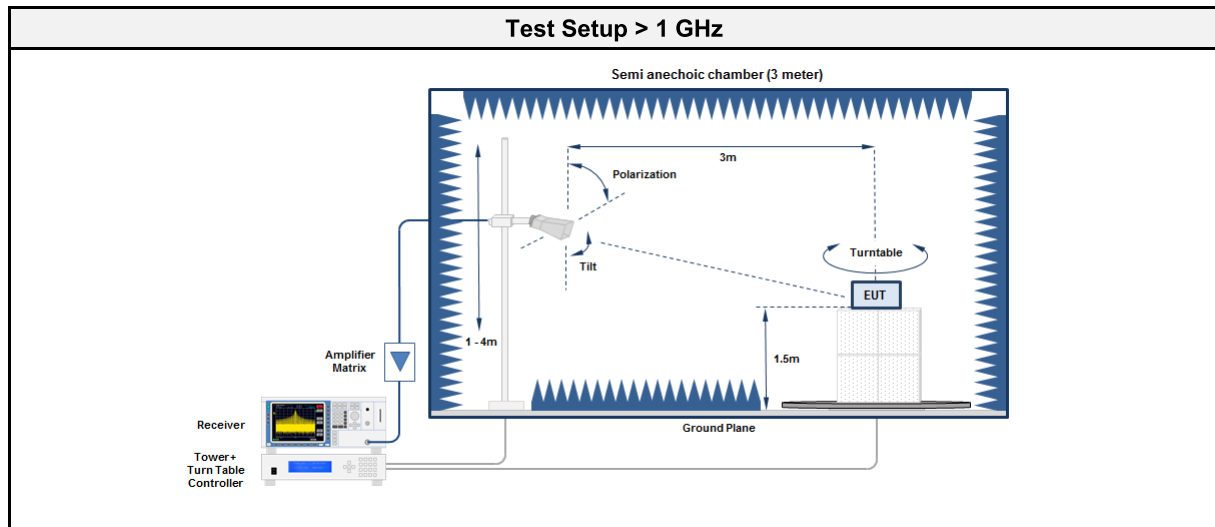
Test Information	
Reference	FCC 15.407(b) ISED RSS-247 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.2
Measurement Method	KDB 789033 G ANSI C63.10 12.5
Operator	Azamat Ibraimov
Date	2024-02-24 – 2024-03-05
Measurement uncertainty	±2.86 %

3.6.2 Limits

Limits - Restricted frequency bands and below 1 GHz			
Frequency [MHz]	Detector	Field strength [$\mu\text{V}/\text{m}$]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

Limits - Outside restricted frequency bands above 1 GHz			
Frequency band [MHz]	Power limit [dBm EIRP]	Field strength limit [dB $\mu\text{V}/\text{m}$]	Measurement distance [m]
5150 - 5250	-27 dBm/MHz	68.2	3
5250 - 5350	-27 dBm/MHz	68.2	3
5470 - 5725	-27 dBm/MHz	68.2	3
5725 - 5850	-27 dBm/MHz @ ±75 MHz from band edge	68.2	3
5725 - 5850	10 to -27 dBm/MHz @ ±25 to ±75 MHz from band edge	105.2 to 68.2	3
5725 - 5850	15.6 to 10 dBm/MHz @ ±5 to ±25 MHz from band edge	110.8 to 105.2	3
5725 - 5850	27 to 15.6 dBm/MHz @ ±0 to ±5 MHz from band edge	122.2 to 110.8	3

3.6.3 Setup



3.6.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber	Frankonia	AC 2	EF01616	2023-12	2024-12
Spectrum analyzer	R&S	FSW43	EF00896	2023-08	2024-08
Horn antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2024-03
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2024-03
Antenna	Amplifier Research	AT4560	EF00302	2023-09	2025-09

3.6.5 Procedure

Test Procedure > 1 GHz
<ol style="list-style-type: none"> 1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

3.6.6 Results

Test Results 2J antenna							
Mode	Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
HE20-SU ER	5500	1200	38.87	pk	hor	74.00	-35.13
HE20-SU ER	5500	1400	38.34	pk	ver	74.00	-35.66
HE20-SU ER	5500	1600	39.97	pk	ver	74.00	-34.03
HE20-SU ER	5500	2400	38.87	pk	ver	68.20	-29.33
HE20-SU ER	5500	3600	40.42	pk	hor	68.20	-27.78
HE40-TB	5755	1200	38.08	pk	ver	74.00	-35.92
HE40-TB	5755	1400	38.24	pk	hor	74.00	-35.76
HE40-TB	5755	1600	40.01	pk	ver	74.00	-33.99
HE40-TB	5755	2400	39.51	pk	ver	68.20	-28.69
HE20-SU ER	5180	5148	40.28	RMS	hor	54.00	-13.72
HE20-SU ER	5320	5353	40.15	RMS	hor	54.00	-13.85
HE20-SU ER	5700	5725	55.49	RMS	hor	68.20	-12.71
HE20-TB	5320	5354	39.47	RMS	hor	54.00	-14.53
HE20-TB	5700	5728	44.79	RMS	hor	68.20	-23.41
HE20-TB	5825	5853	44.16	RMS	hor	122.00	-77.84
HE40-TB	5510	5442	36.31	RMS	hor	54.00	-17.69

Note: Only cases with notable emissions are presented.

Test Results Taoglas antenna							
Mode	Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
HE20-SU ER	5180	1200	38.37	pk	hor	74.00	-35.63
HE20-SU ER	5180	1600	37.49	pk	hor	74.00	-36.51
HE20-SU ER	5180	2400	38.77	pk	ver	68.20	-29.43
HE20-SU ER	5180	5095	44.18	pk	ver	74.00	-29.82
HE20-SU ER	5180	5149	40.88	RMS	ver	54.00	-13.12
HE40-TB	5310	1200	37.02	pk	ver	74.00	-36.98
HE40-TB	5310	1400	37.72	pk	hor	74.00	-36.28
HE40-TB	5310	1600	38.74	pk	ver	74.00	-35.26
HE40-TB	5310	2400	38.62	pk	ver	68.20	-29.58
HE40-TB	5310	3540	38.48	pk	ver	68.20	-29.72

Note: Only cases with notable emissions are presented.

Test Results TDK antenna							
Mode	Channel [MHz]	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Margin [dB]
HE20-SU ER	5320	1200	39.85	pk	hor	74.00	-34.15
HE20-SU ER	5320	1600	40.40	pk	ver	74.00	-33.60
HE20-SU ER	5320	2400	38.65	pk	ver	68.20	-29.55
HE20-SU ER	5320	2800	38.72	pk	ver	74.00	-35.28
HE20-SU ER	5320	3600	39.90	pk	hor	68.20	-28.30
HE80-TB	5775	1400	40.21	pk	hor	74.00	-33.79
HE80-TB	5775	1600	39.96	pk	hor	74.00	-34.04
HE80-TB	5775	2400	39.20	pk	ver	68.20	-29.00
HE80-TB	5775	2800	38.97	pk	ver	74.00	-35.03
HE80-TB	5775	5662	49.23	pk	hor	77.45	-28.21

Note: Only cases with notable emissions are presented.

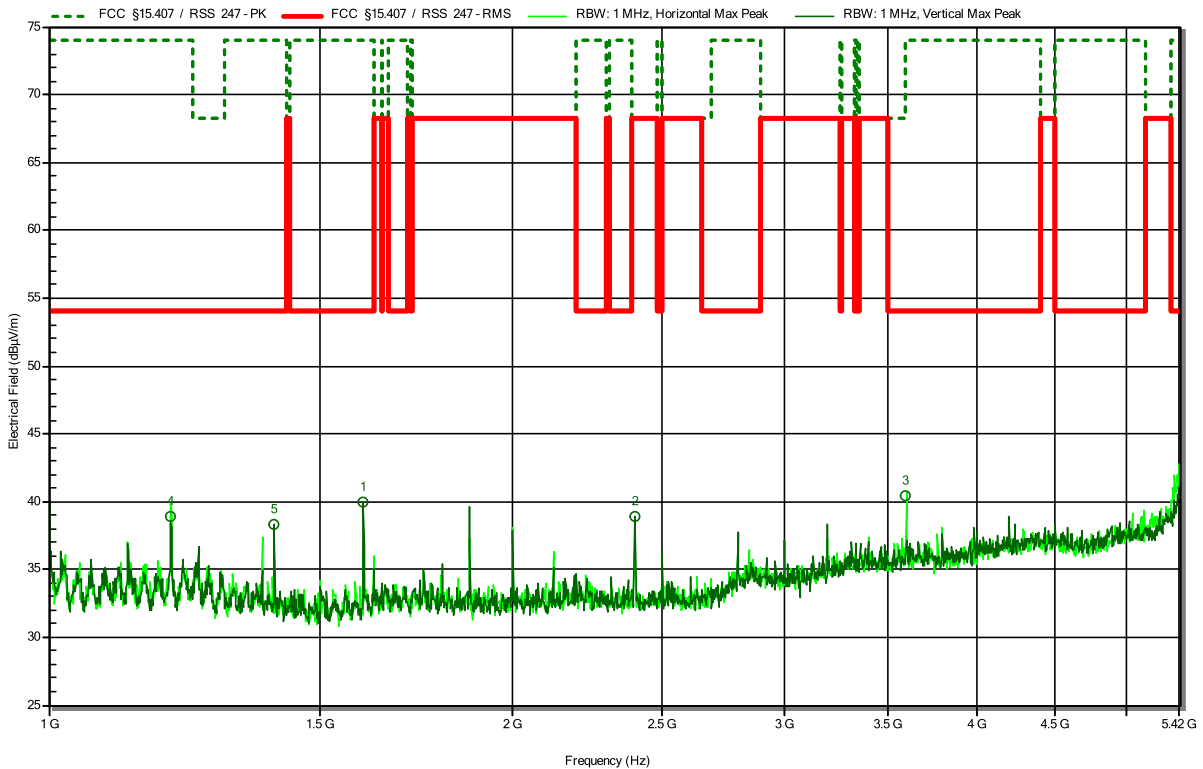
ANNEX A Transmitter spurious emissions with 2J antenna

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5500 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation



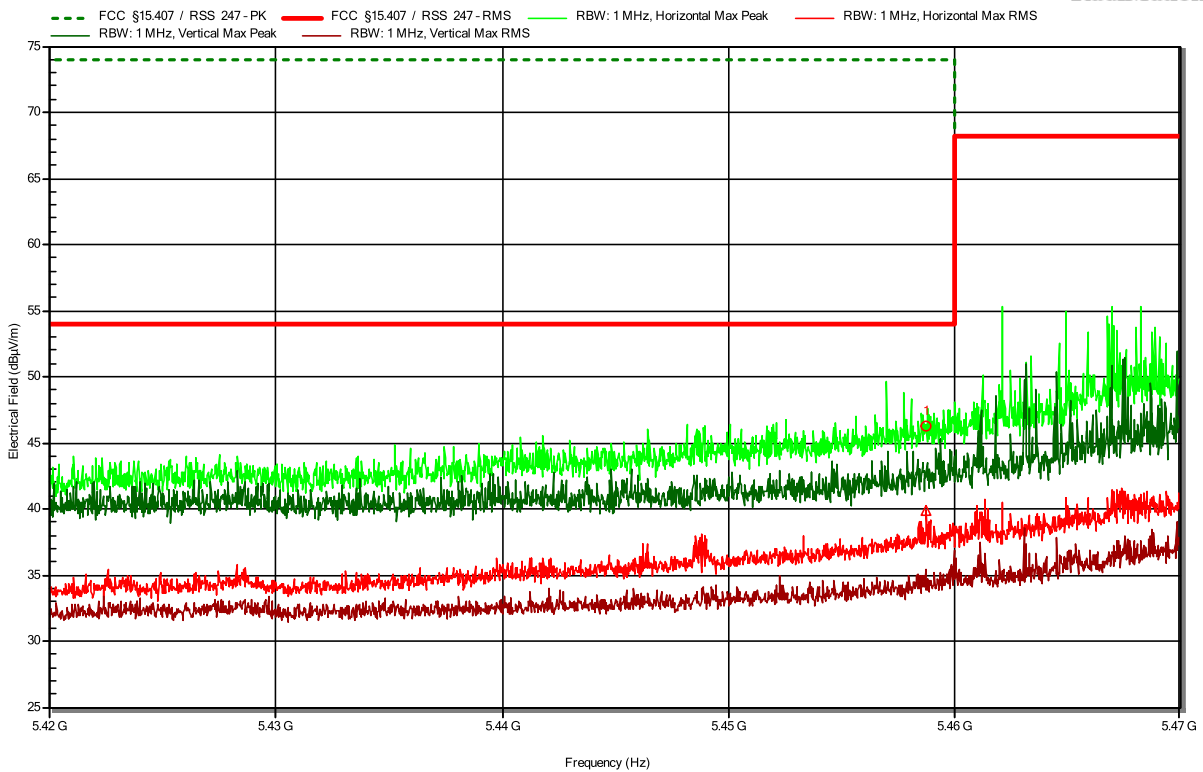
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.2 GHz	38.87 dBµV/m	74 dBµV/m	-35.13 dB	Pass	Horizontal
1.4 GHz	38.34 dBµV/m	74 dBµV/m	-35.66 dB	Pass	Vertical
1.6 GHz	39.97 dBµV/m	74 dBµV/m	-34.03 dB	Pass	Vertical
2.4 GHz	38.87 dBµV/m	68.2 dBµV/m	-29.33 dB	Pass	Vertical
3.6 GHz	40.42 dBµV/m	68.2 dBµV/m	-27.78 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5500 MHz
 Test Date: 2024-02-24
 Note: lower band area

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RadiMation



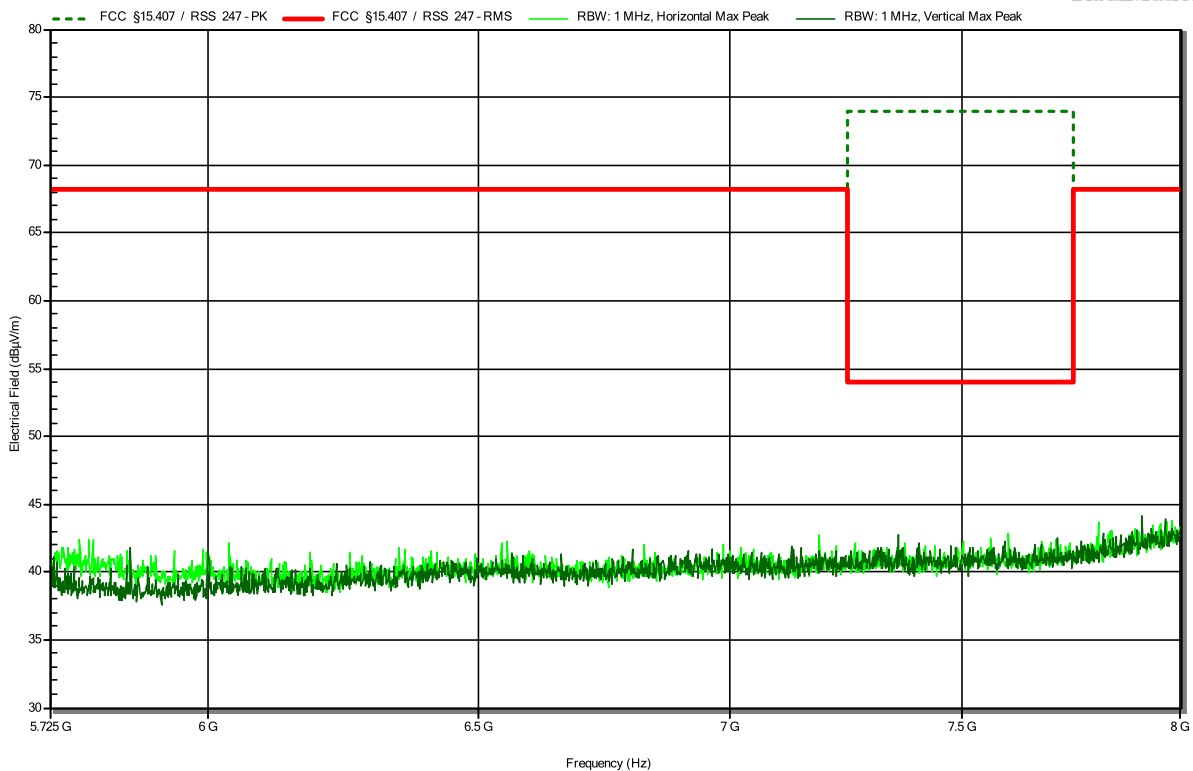
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.459 GHz	39.83 dBµV/m	54 dBµV/m	-14.17 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5500 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation

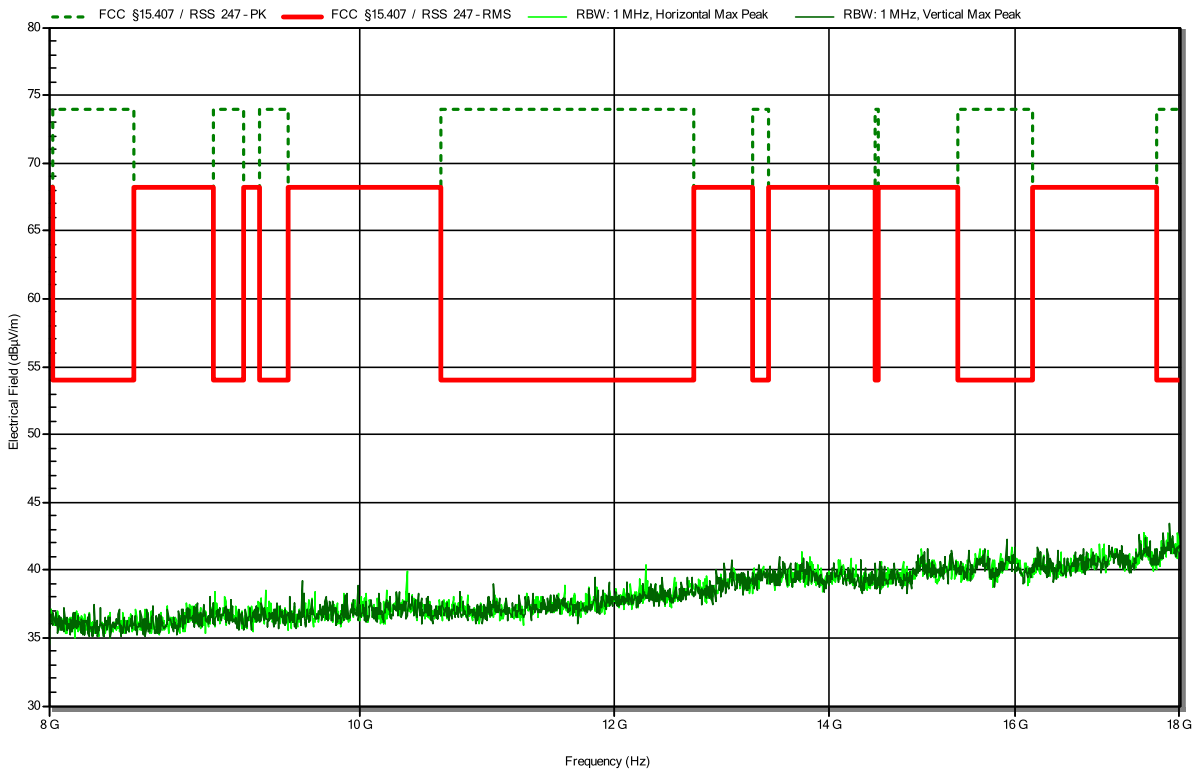


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5500 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation

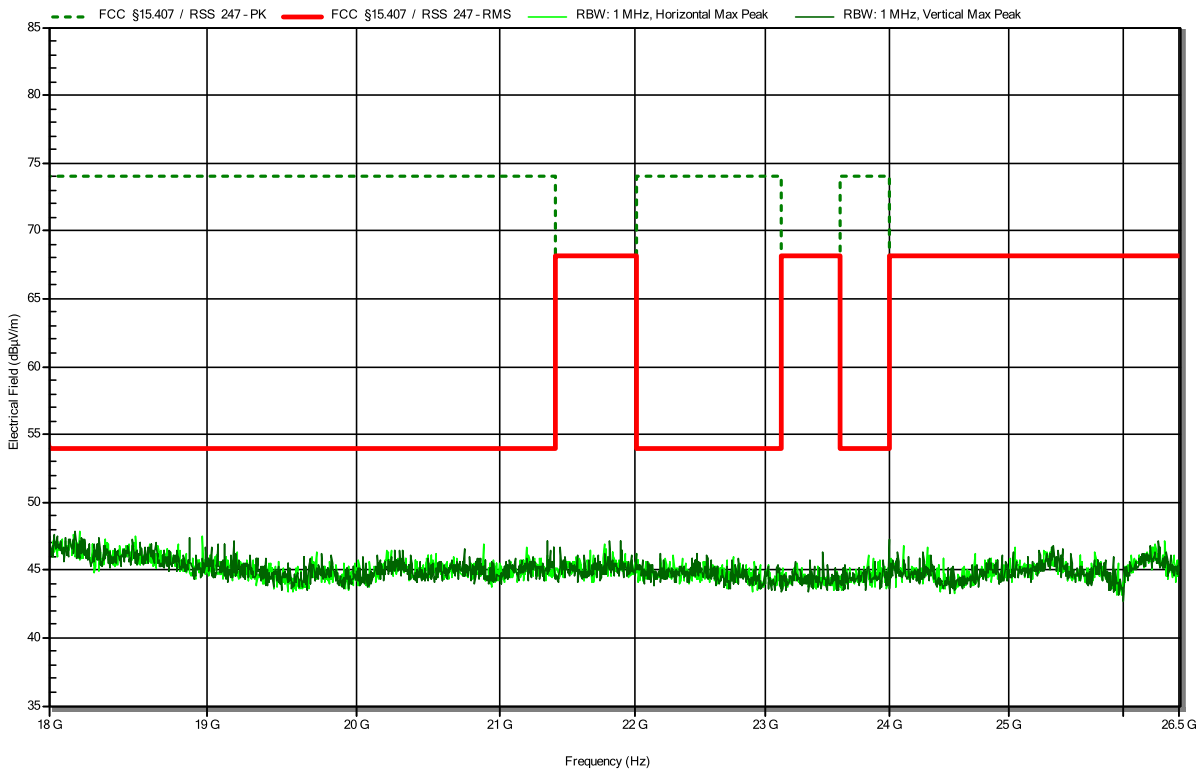


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5500 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation

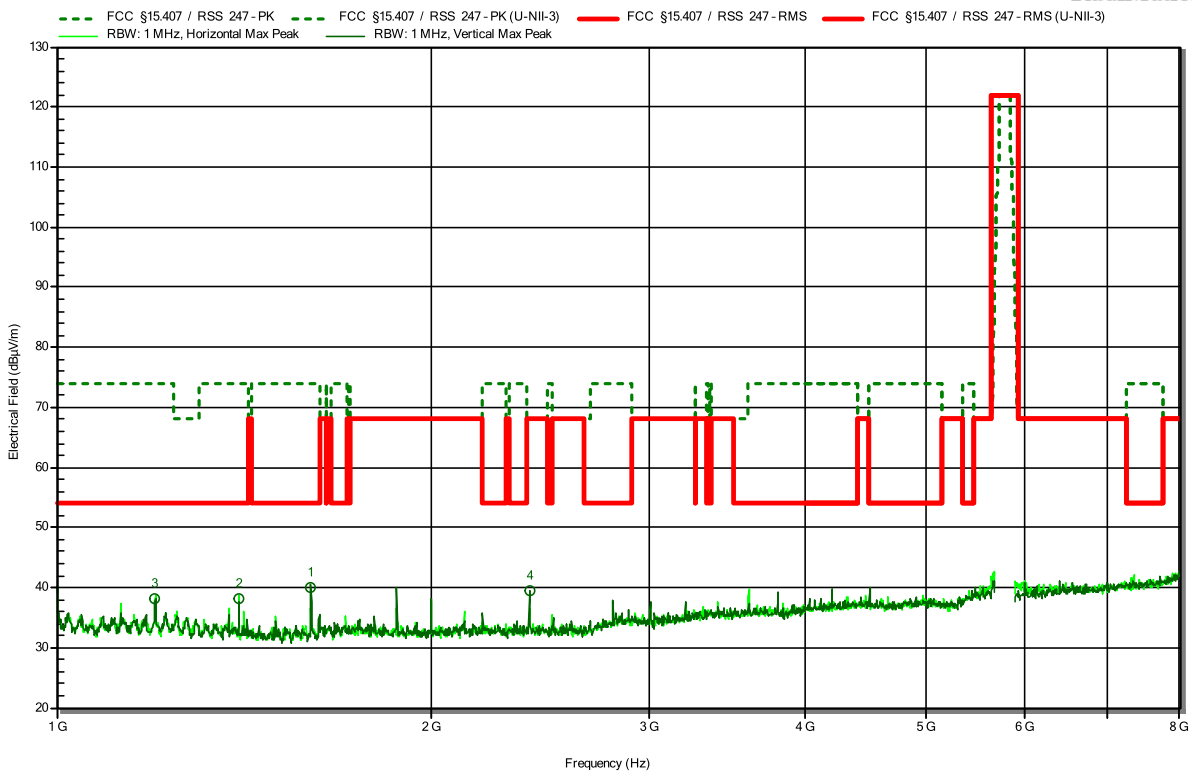


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5755 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation



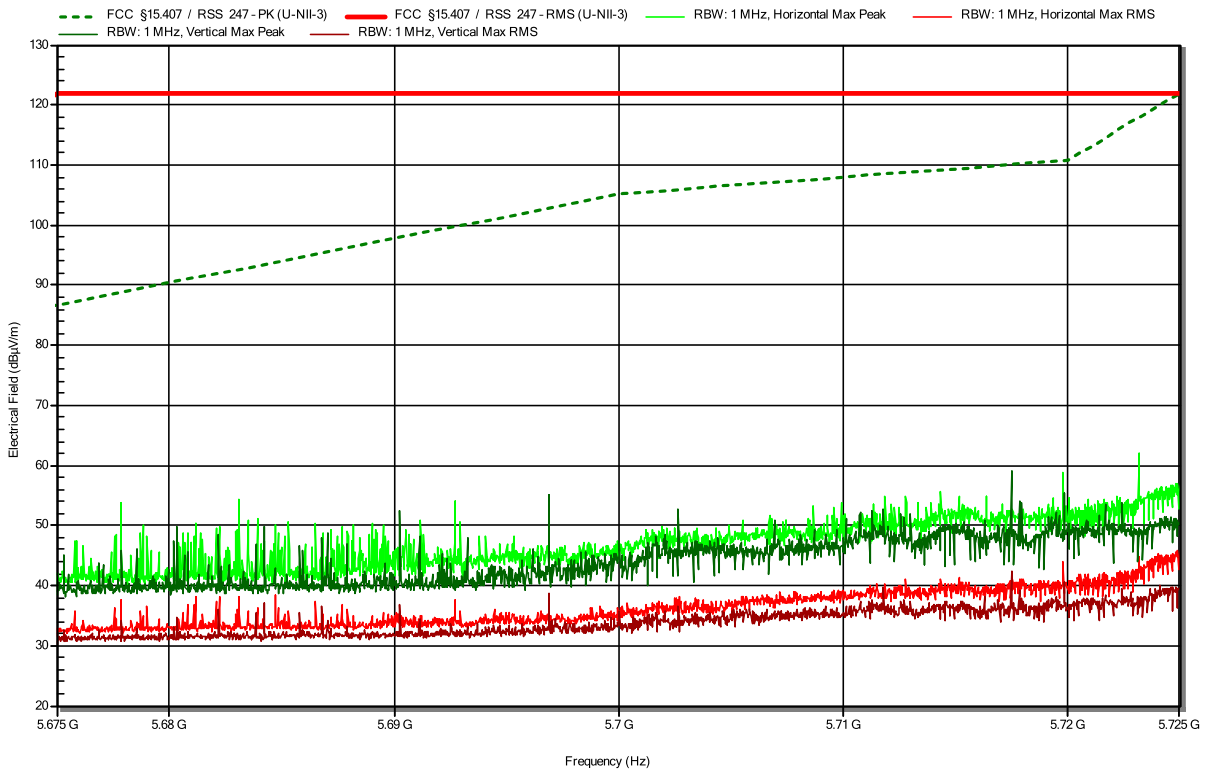
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.2 GHz	38.08 dBµV/m	74 dBµV/m	-35.92 dB	Pass	Vertical
1.4 GHz	38.24 dBµV/m	74 dBµV/m	-35.76 dB	Pass	Horizontal
1.6 GHz	40.01 dBµV/m	74 dBµV/m	-33.99 dB	Pass	Vertical
2.4 GHz	39.51 dBµV/m	68.2 dBµV/m	-28.69 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5755 MHz
 Test Date: 2024-02-26
 Note: lower band area

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RadiMation

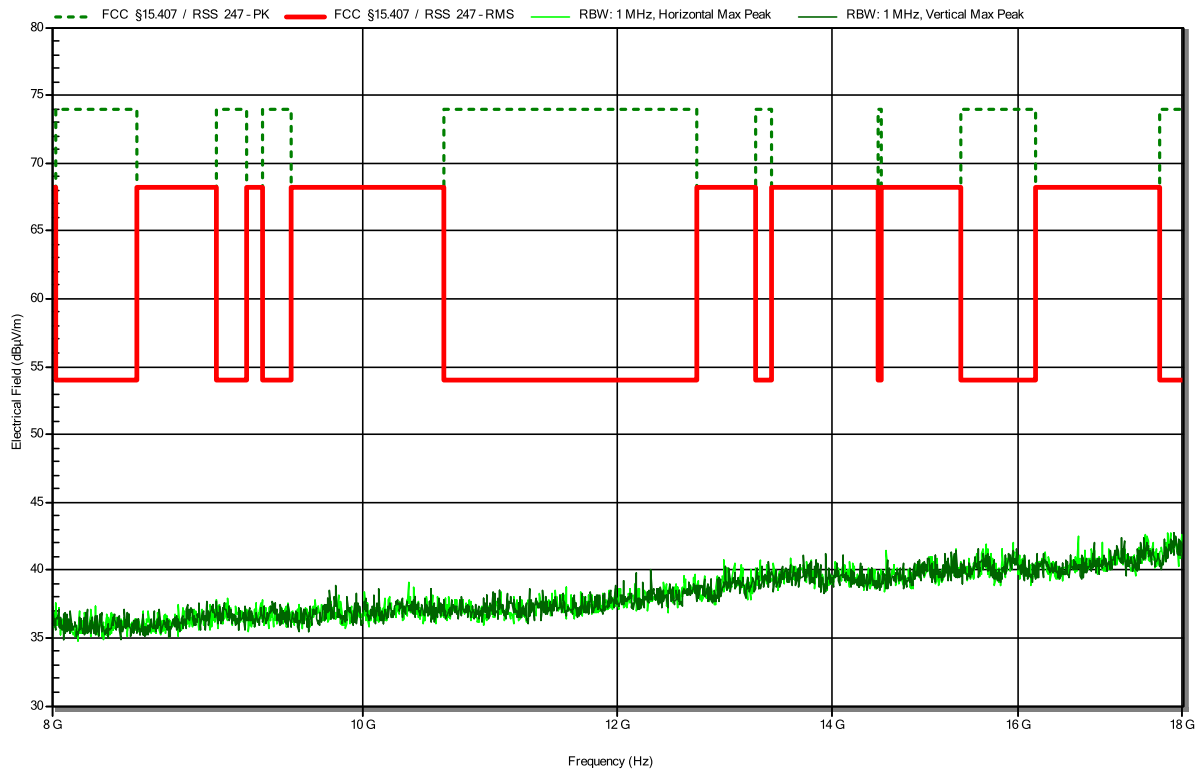


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5755 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation

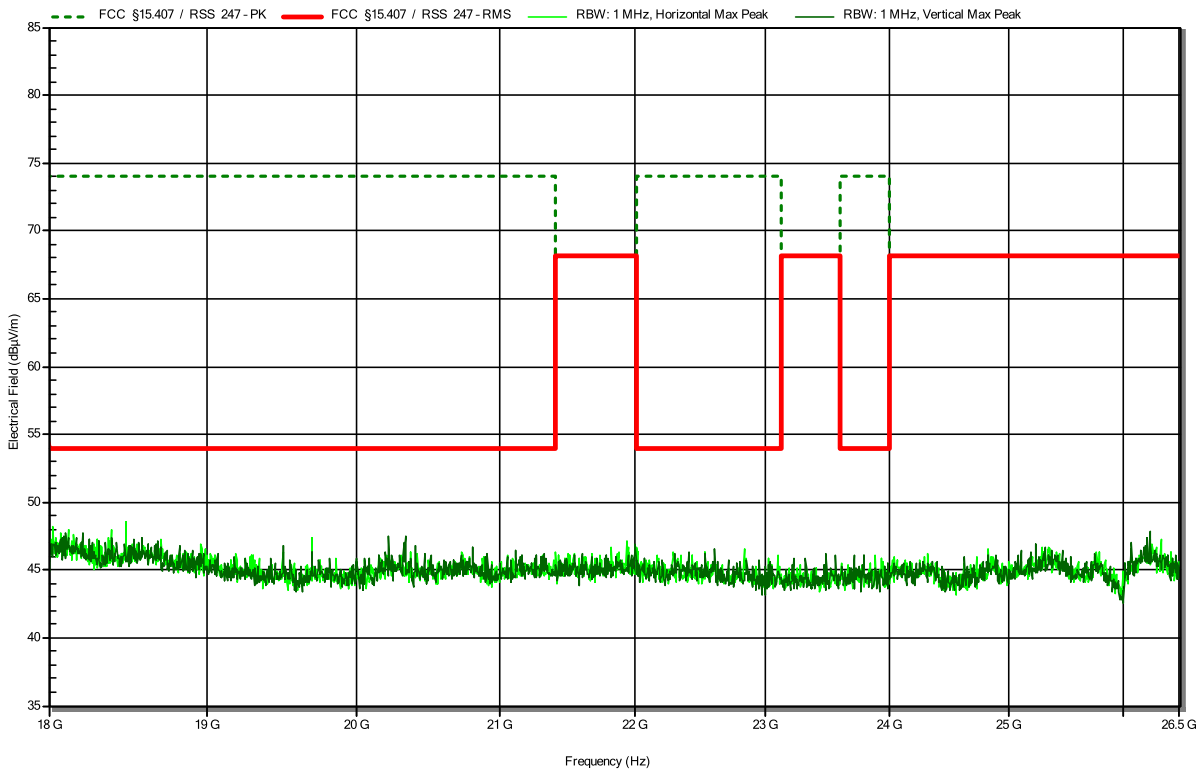


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5755 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation

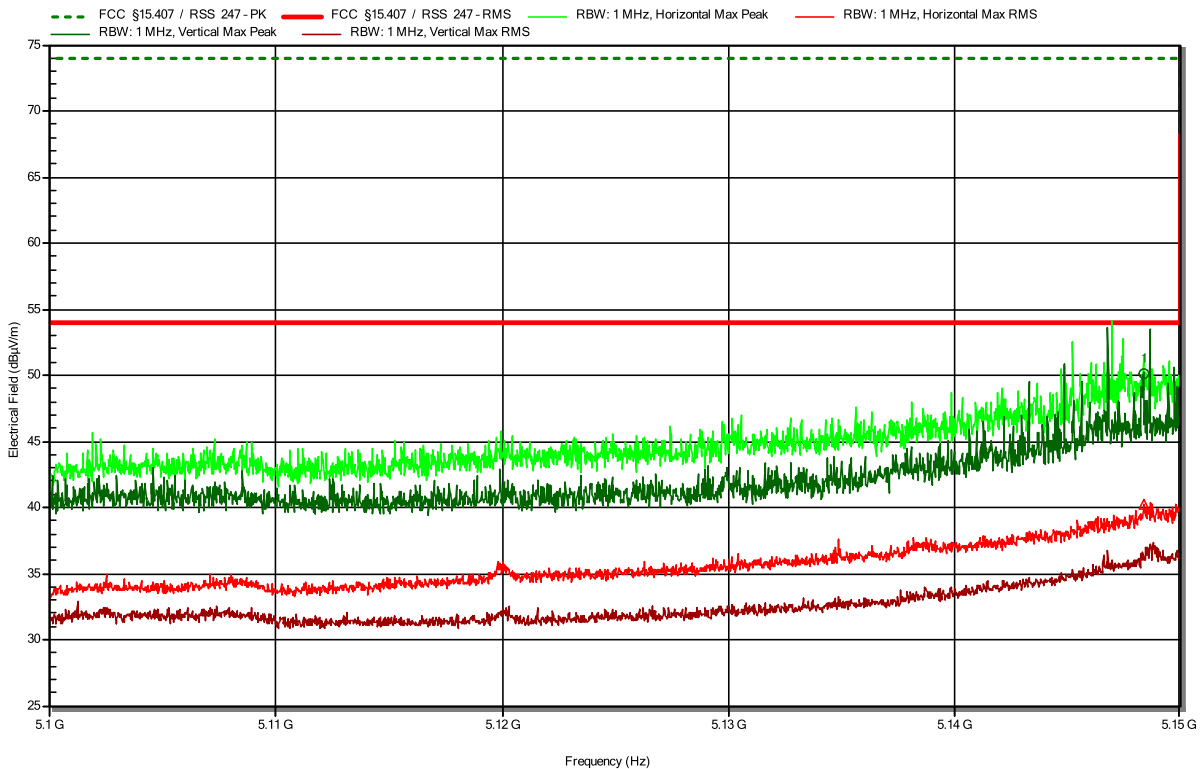


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5180 MHz
 Test Date: 2024-02-24
 Note: lower band area

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RadiMation



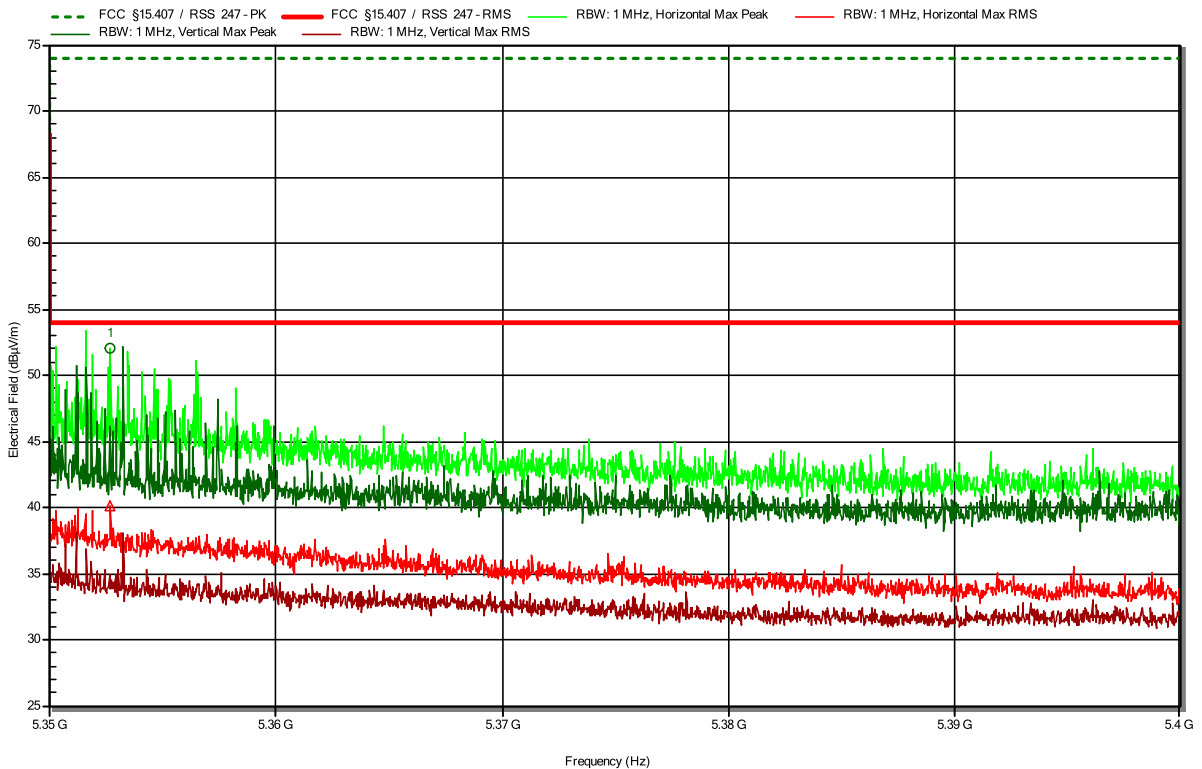
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.148 GHz	40.28 dBµV/m	54 dBµV/m	-13.72 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5320 MHz
 Test Date: 2024-02-24
 Note: upper bandedge

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RadiMation



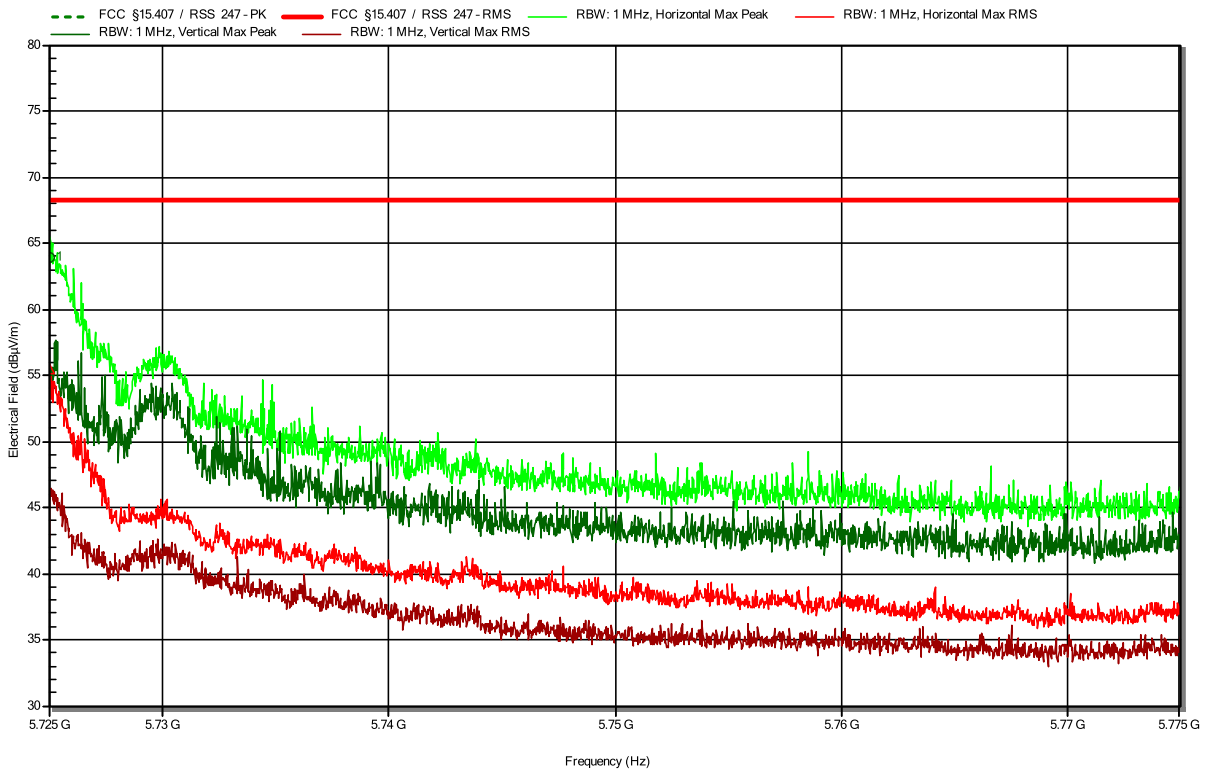
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.353 GHz	40.15 dBµV/m	54 dBµV/m	-13.85 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5700 MHz
 Test Date: 2024-02-24
 Note: upper band area

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RadiMation



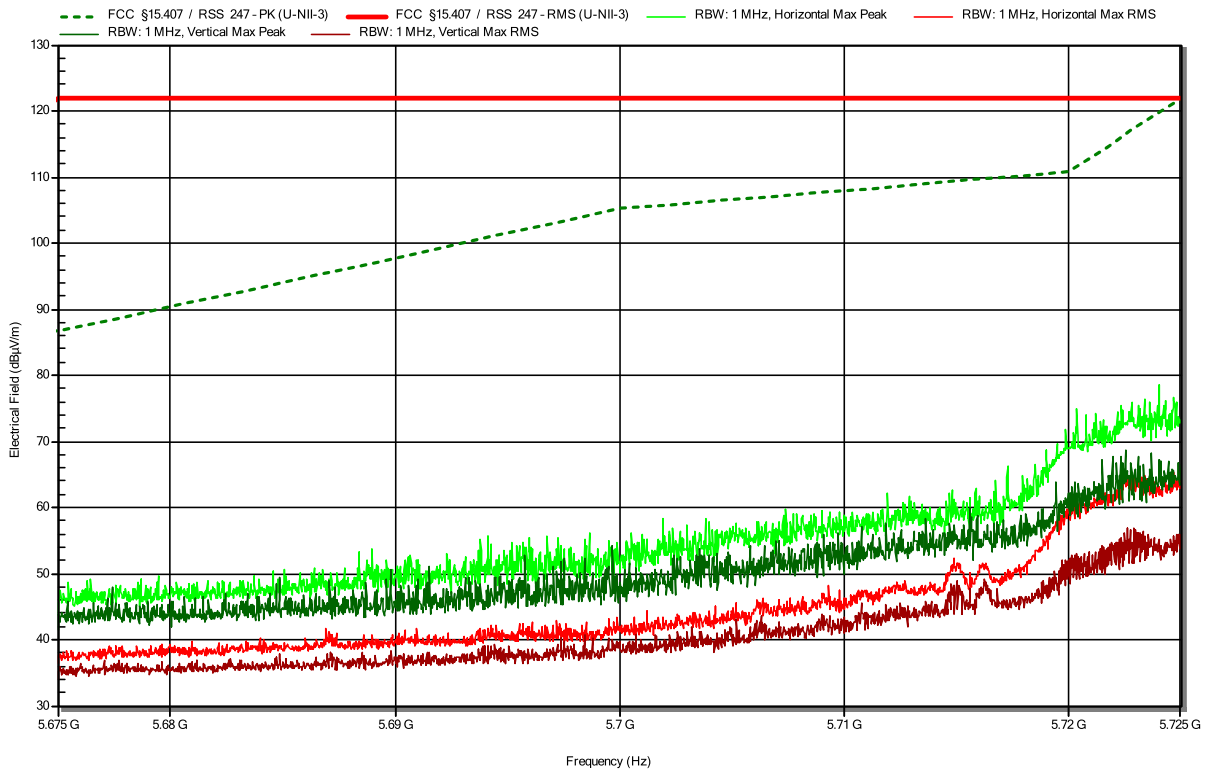
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.725 GHz	55.49 dBµV/m	68.2 dBµV/m	-12.71 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5745 MHz
 Test Date: 2024-02-24
 Note: lower band area

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RadiMation

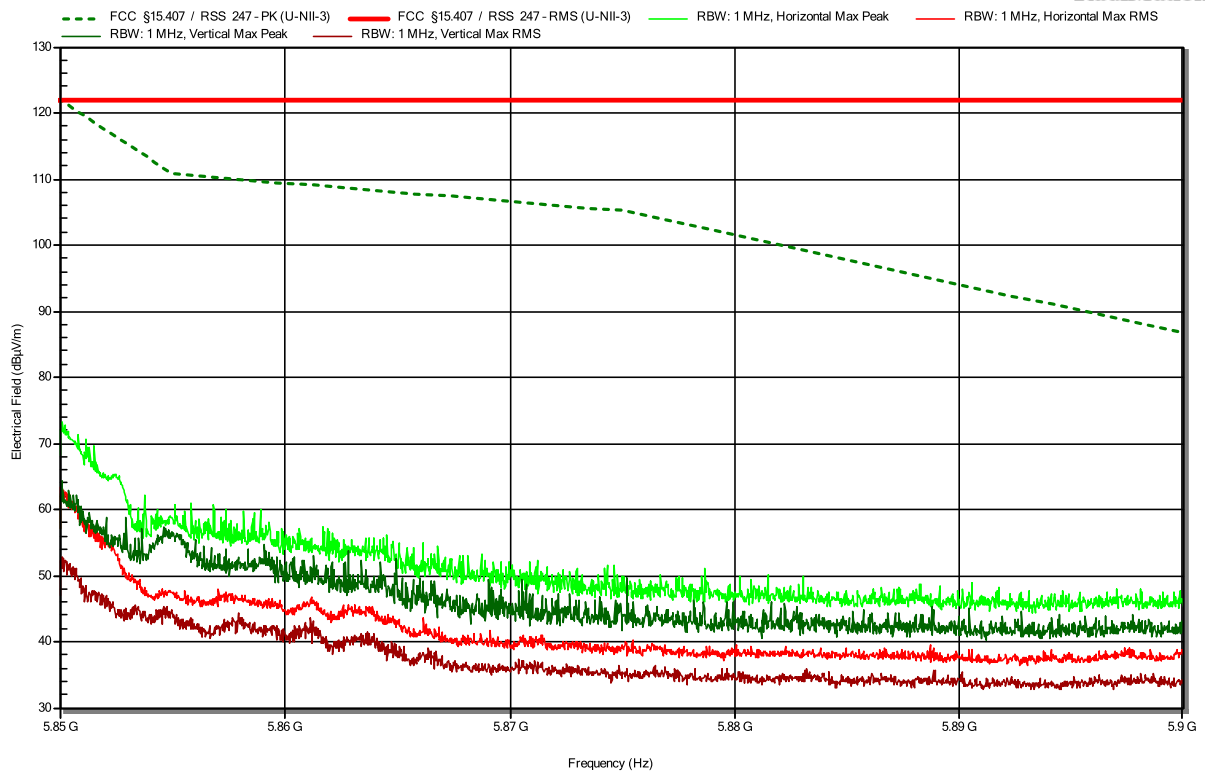


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5825 MHz
 Test Date: 2024-02-24
 Note: upper band area

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RadiMation

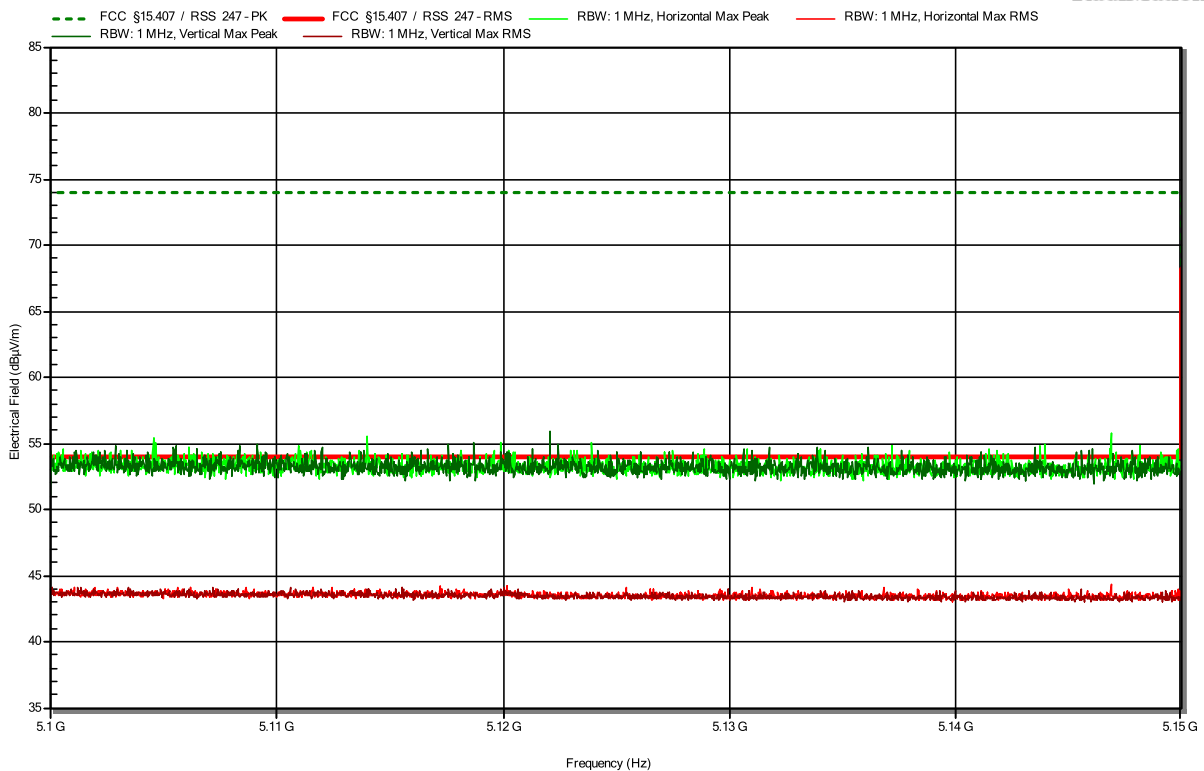


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-TB, 5180 MHz, RU-53 (106tones)
 Test Date: 2024-03-05
 Note: lower band area

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RadiMation

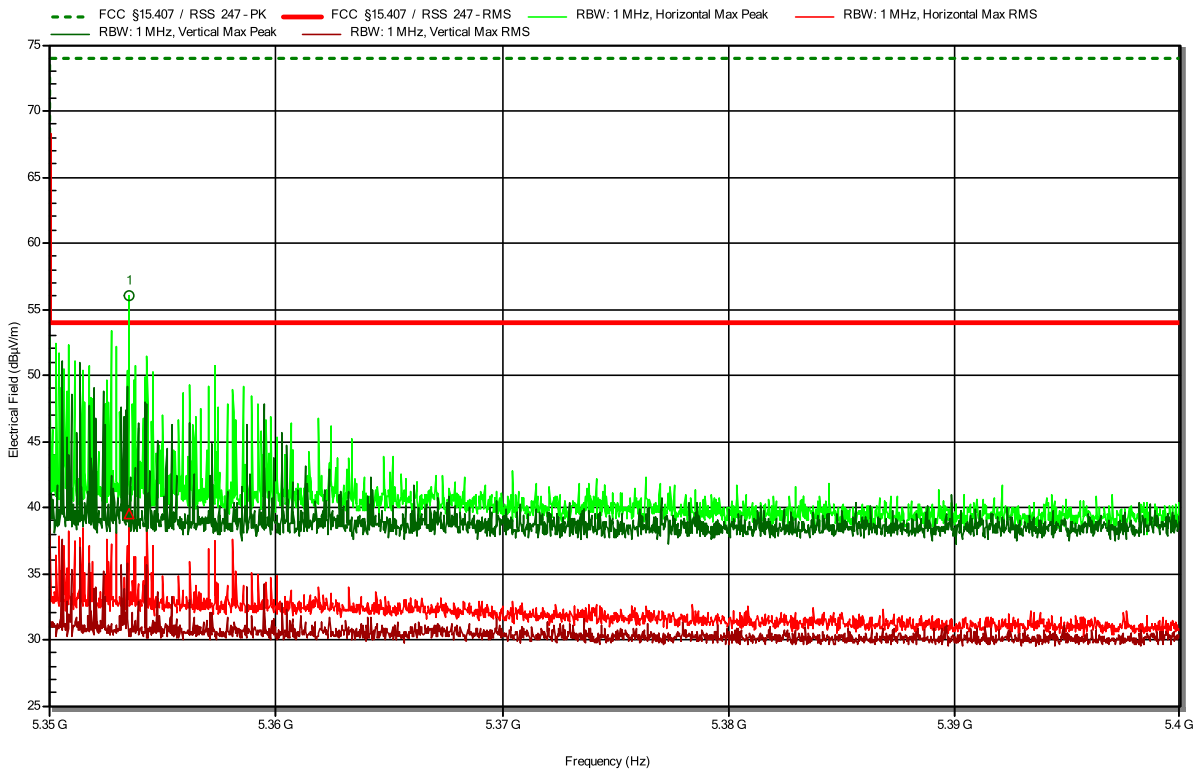


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-TB, 5320 MHz
 Test Date: 2024-02-24
 Note: upper bandedge

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RadiMation



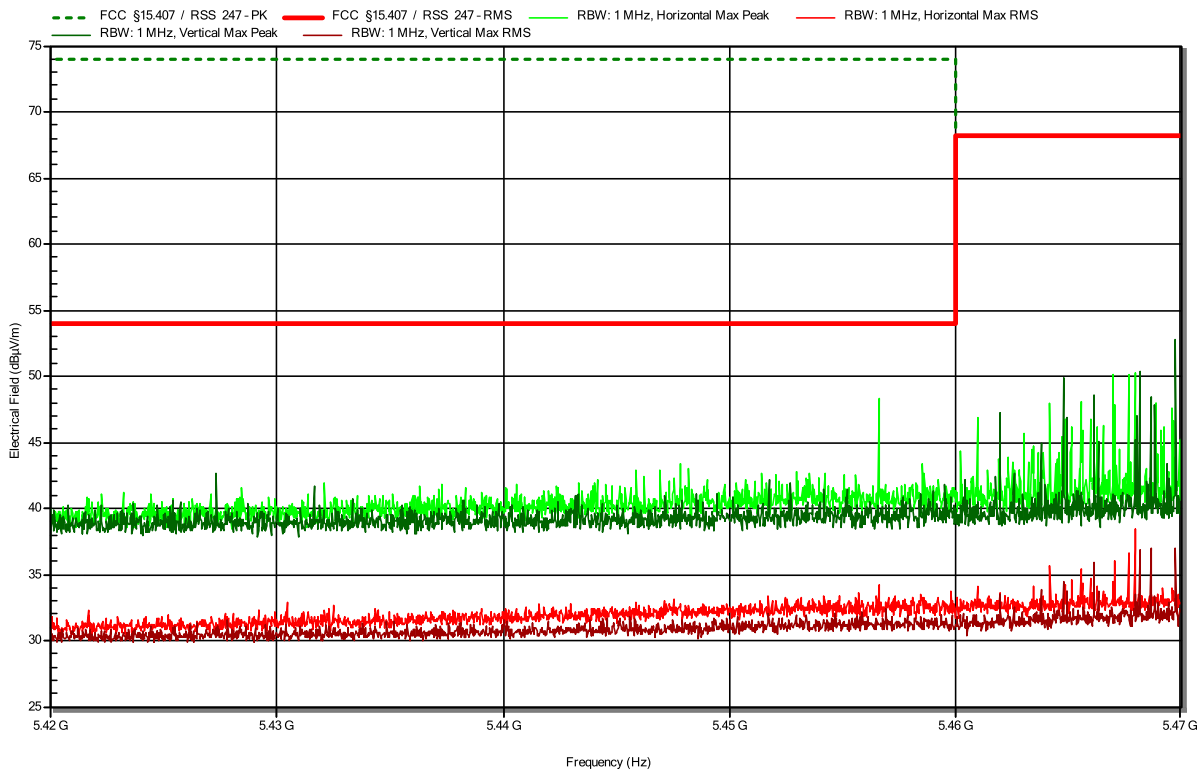
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.354 GHz	39.47 dBµV/m	54 dBµV/m	-14.53 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-TB, 5500 MHz, RU-53 (106tones)
 Test Date: 2024-03-05
 Note: lower band area

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RadiMation

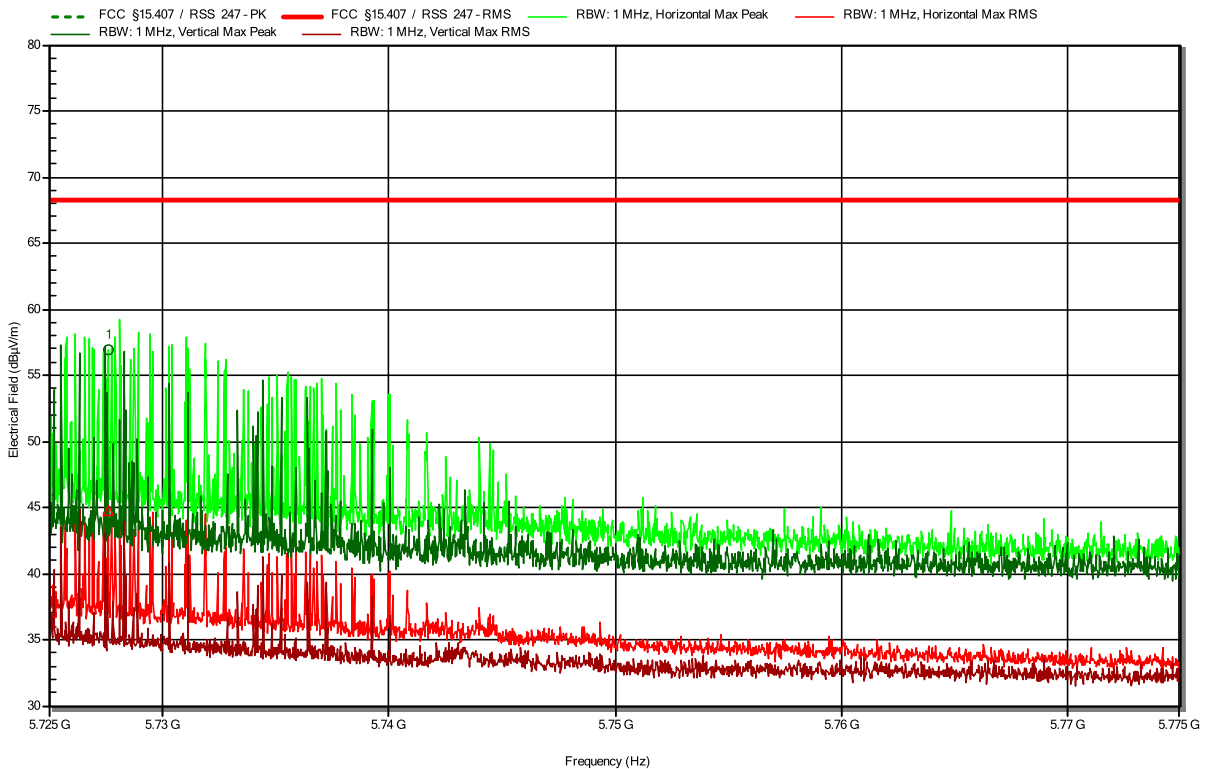


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-TB, 5700 MHz, RU-54 (106tones)
 Test Date: 2024-02-24
 Note: upper band area

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RadiMation



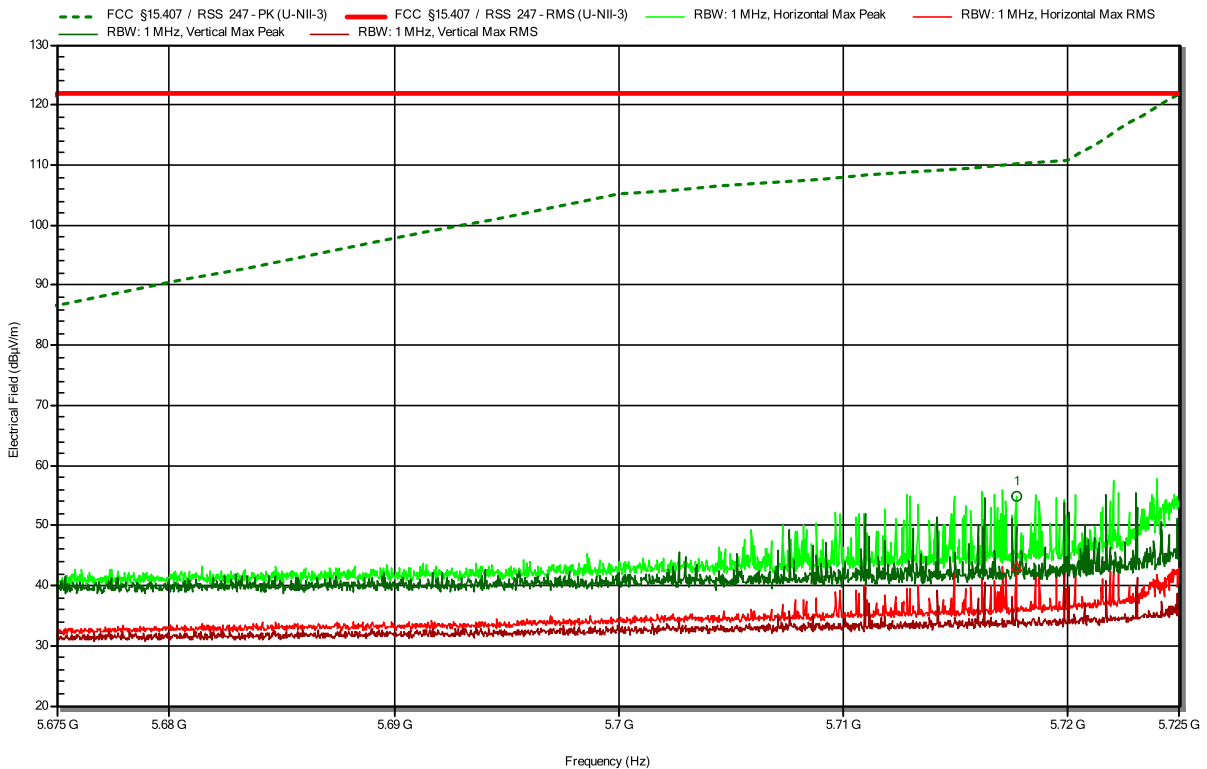
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.728 GHz	44.79 dBµV/m	68.2 dBµV/m	-23.41 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-TB, 5745 MHz, RU-53 (106tones)
 Test Date: 2024-03-05
 Note: lower band area

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RadiMation



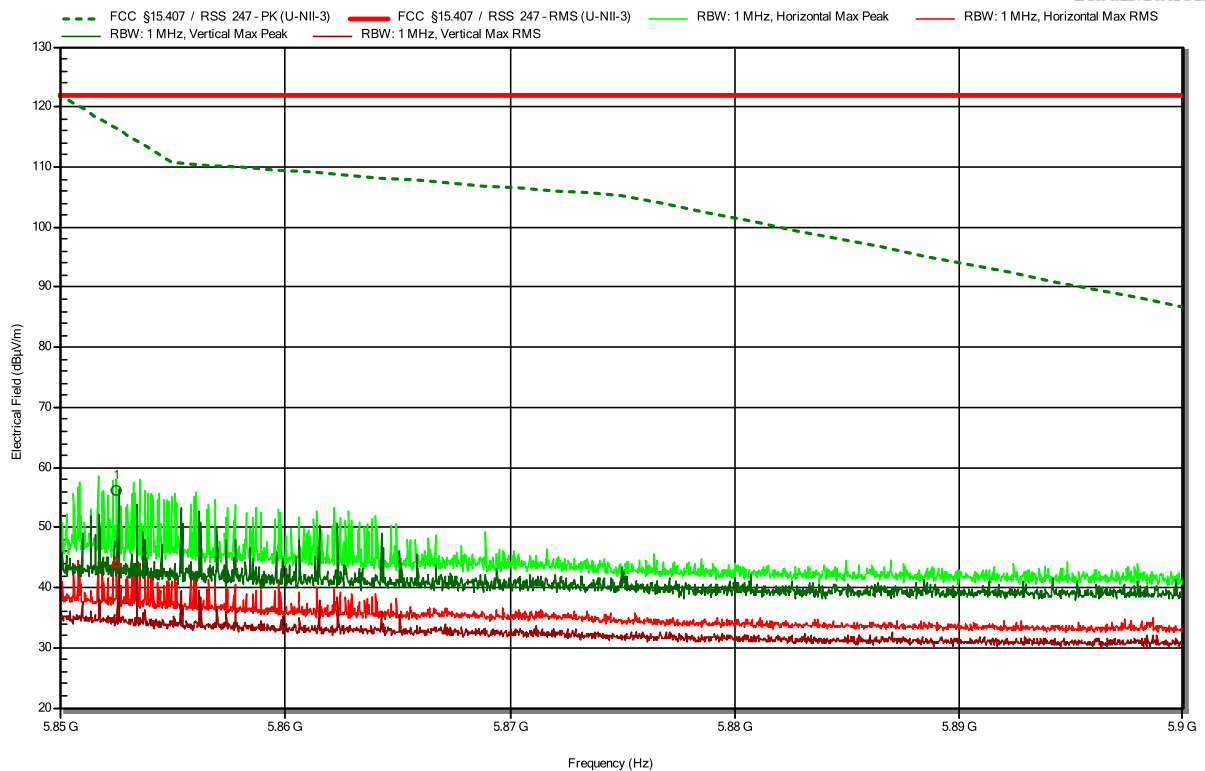
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.718 GHz	43.21 dBµV/m	122 dBµV/m	-78.79 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-TB, 5825 MHz, RU-53 (106tones)
 Test Date: 2024-02-24
 Note: upper band area

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RadiMation



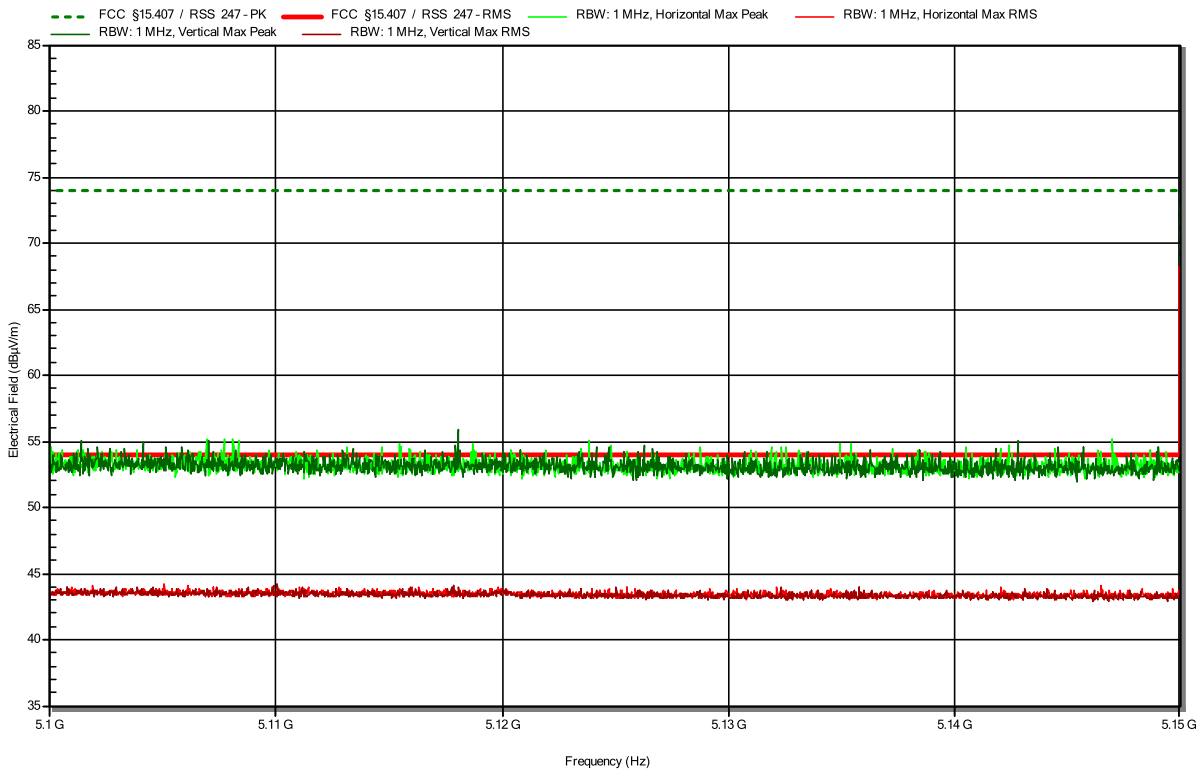
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.853 GHz	44.16 dBµV/m	122 dBµV/m	-77.84 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5190 MHz
 Test Date: 2024-02-24
 Note: lower band area

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RadiMation

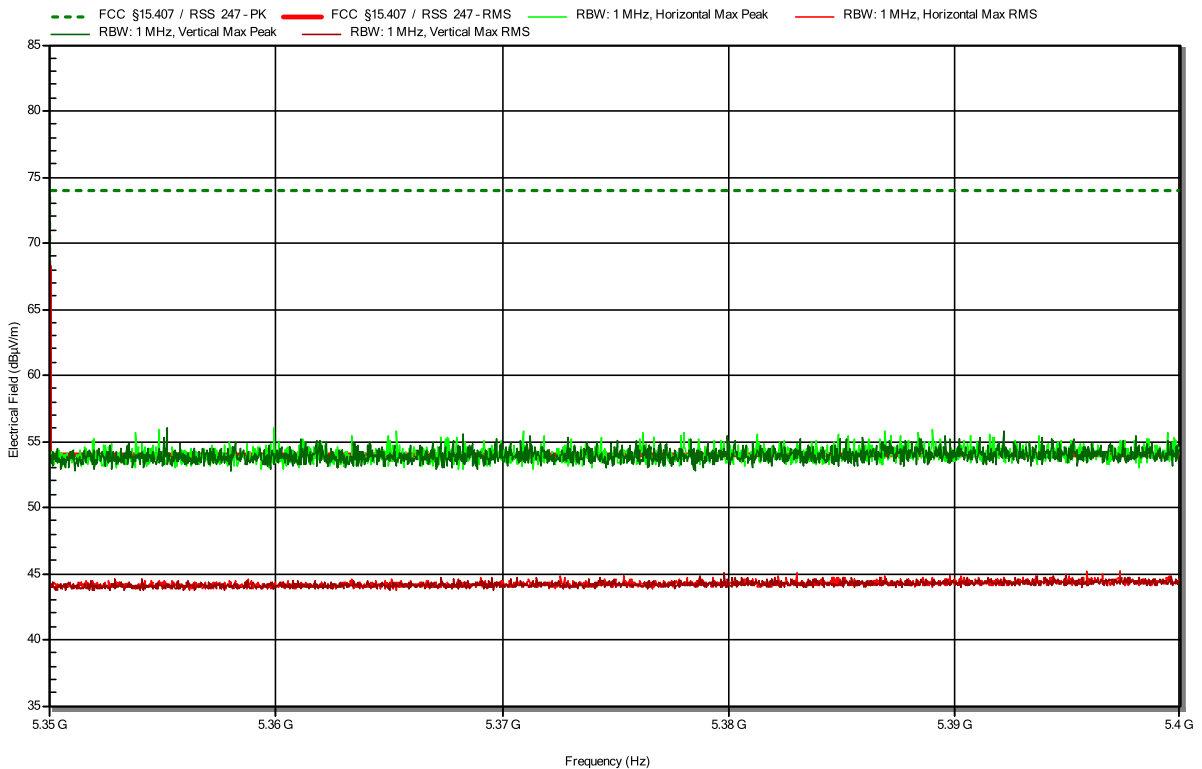


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5310 MHz
 Test Date: 2024-02-24
 Note: upper band area

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RadiMation

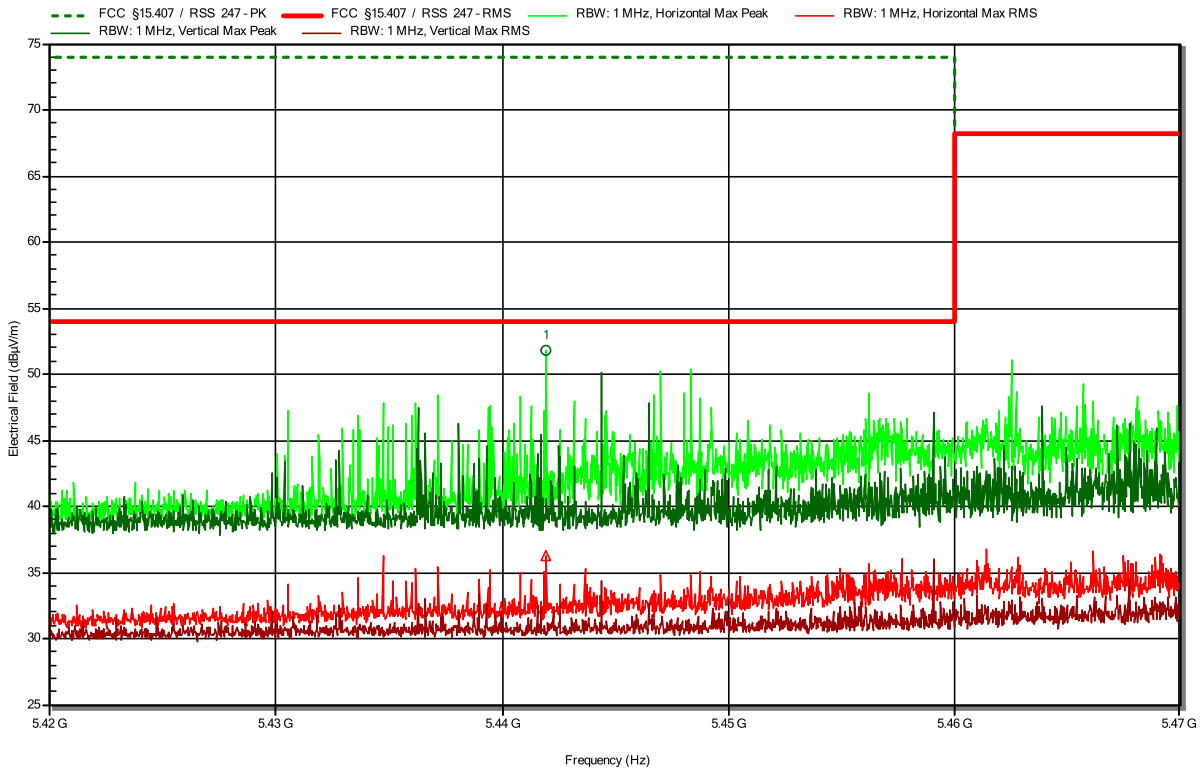


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5510 MHz, , RU-37 (52tones)
 Test Date: 2024-02-24
 Note: lower band area

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RadiMation



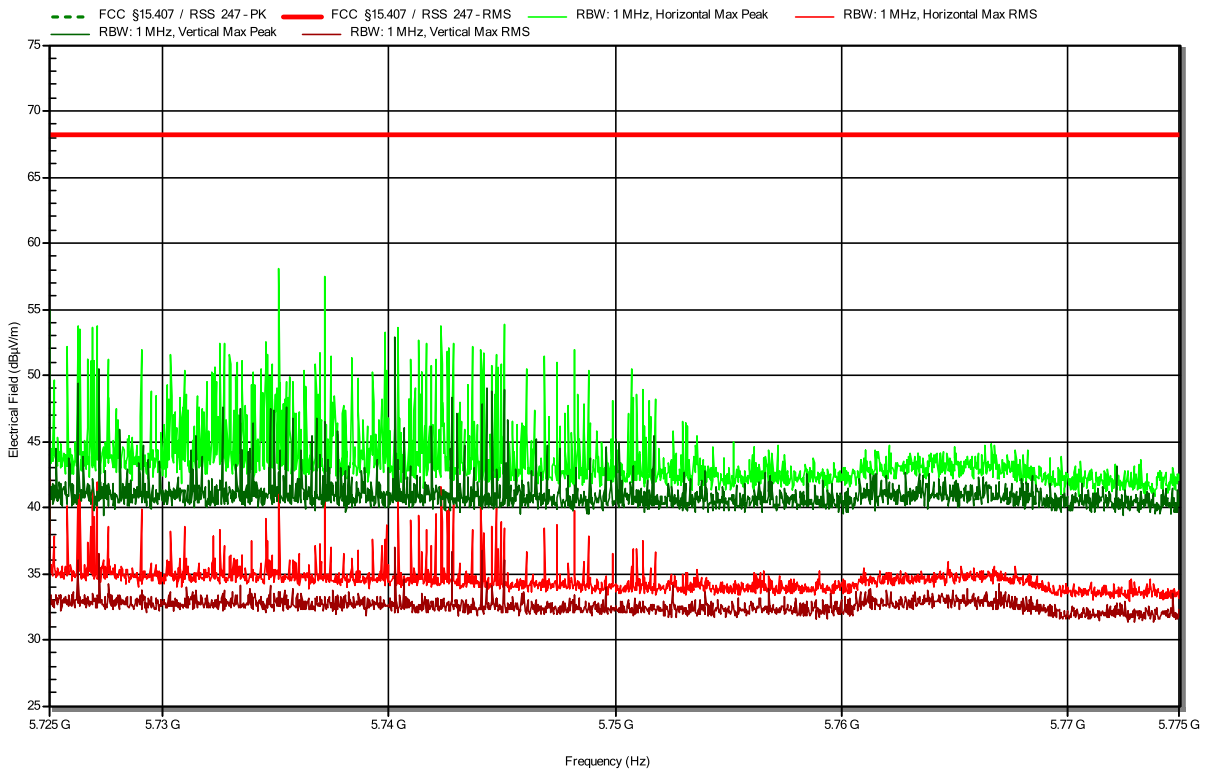
Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.442 GHz	36.31 dBµV/m	54 dBµV/m	-17.69 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5670 MHz, RU-56 (106tones)
 Test Date: 2024-03-05
 Note: upper band area

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RadiMation

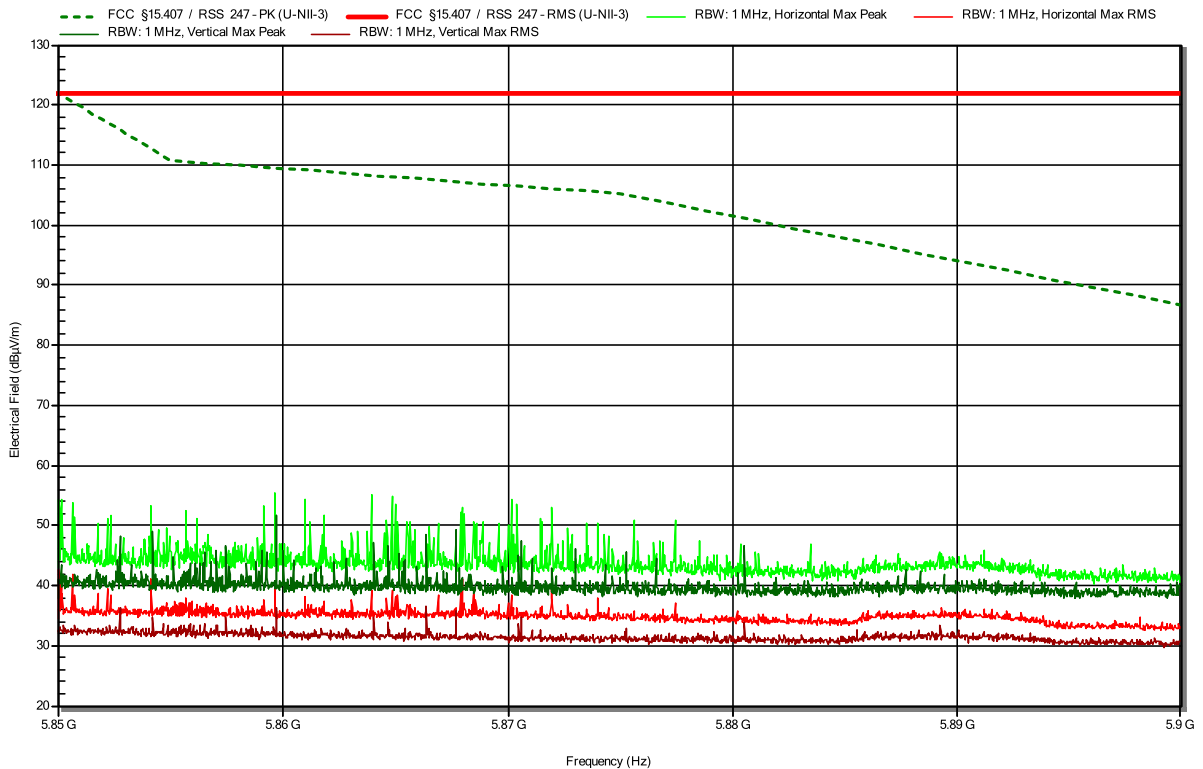


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5795 MHz, RU-56 (106tones)
 Test Date: 2024-03-05
 Note: upper band area

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RadiMation

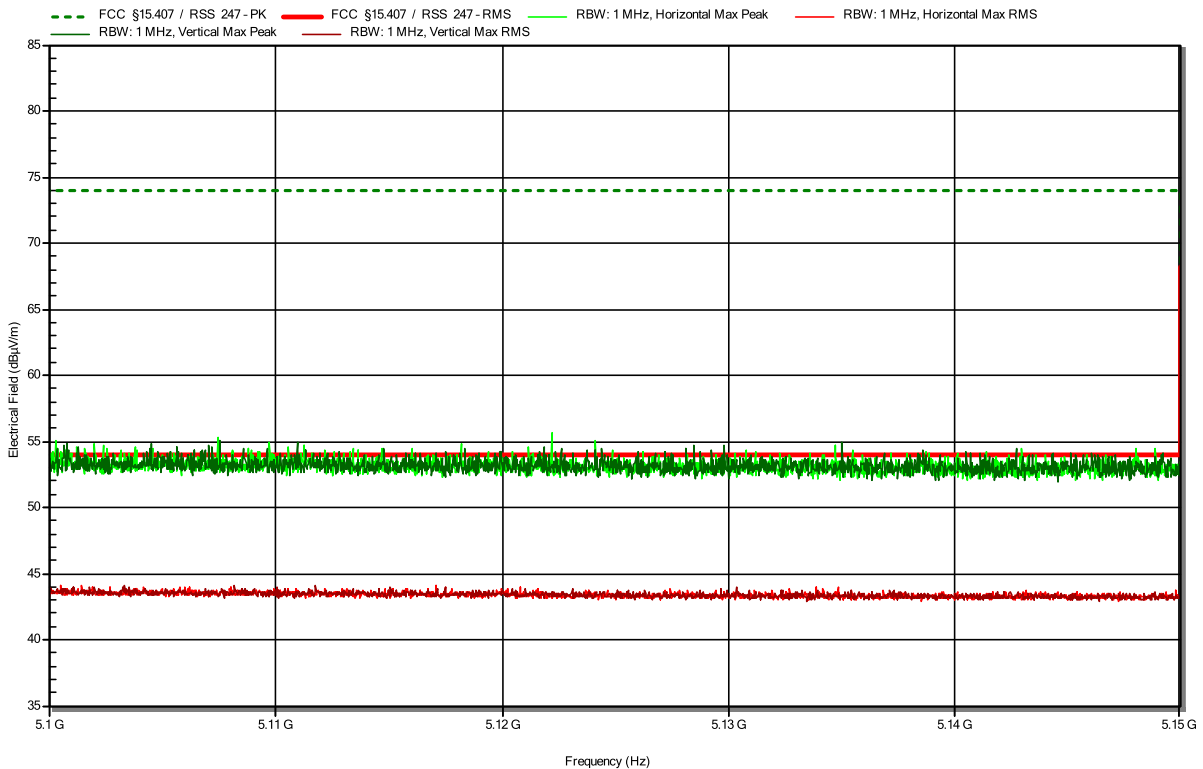


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE80-TB, 5210 MHz, RU-37 (52tones)
 Test Date: 2024-03-05
 Note: lower band area

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RadiMation

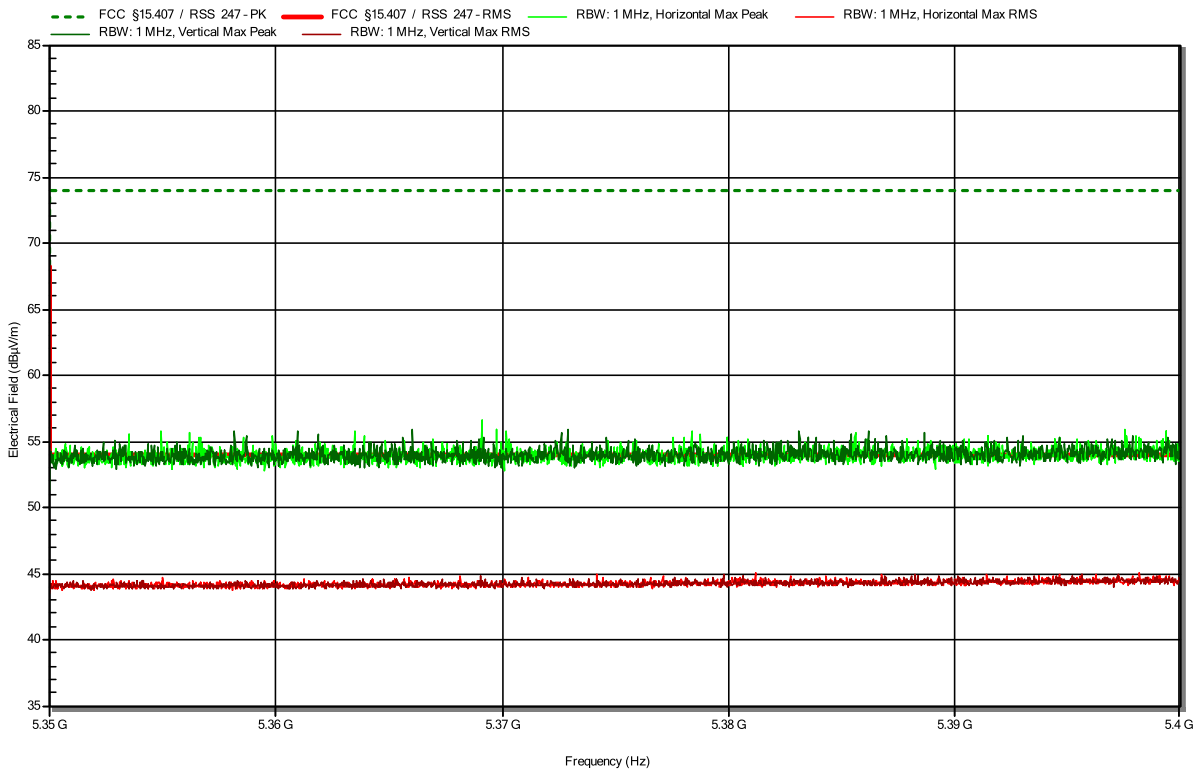


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE80-TB, 5290 MHz, RU-52 (52tones)
 Test Date: 2024-03-05
 Note: upper band area

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RadiMation

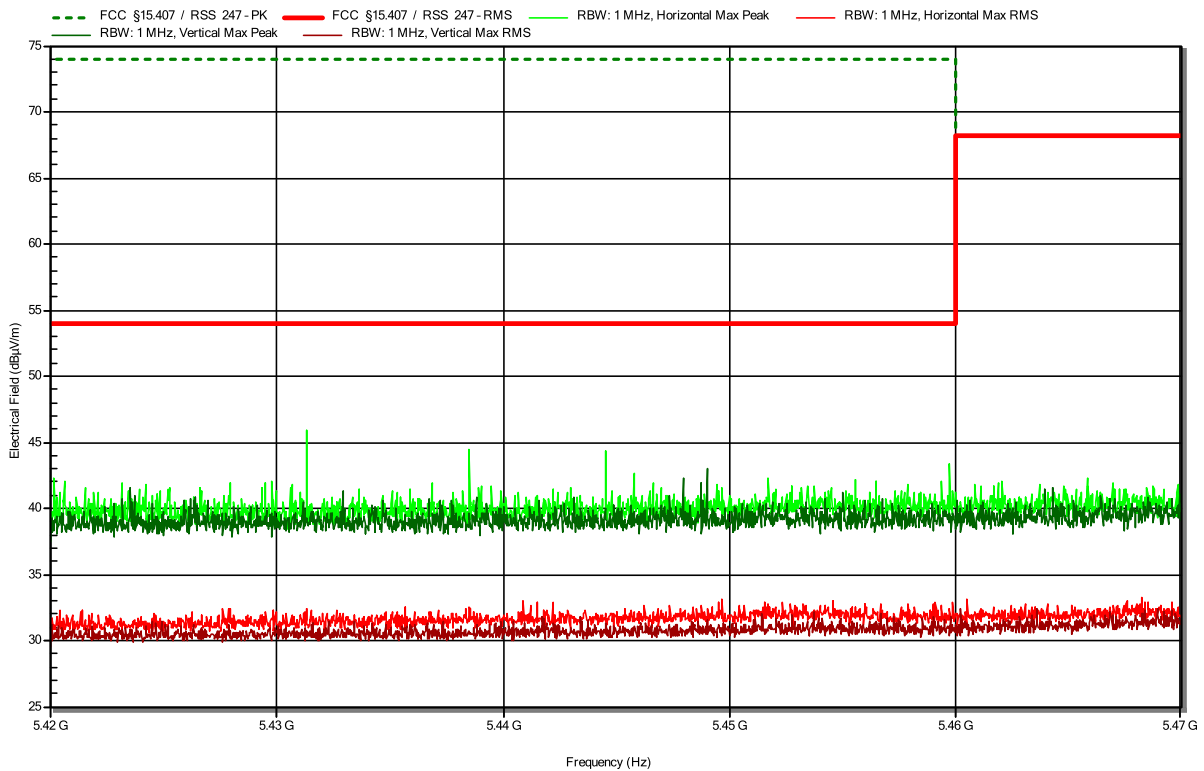


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE80-TB, 5530 MHz, RU-37 (52tones)
 Test Date: 2024-03-05
 Note: lower band area

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RadiMation

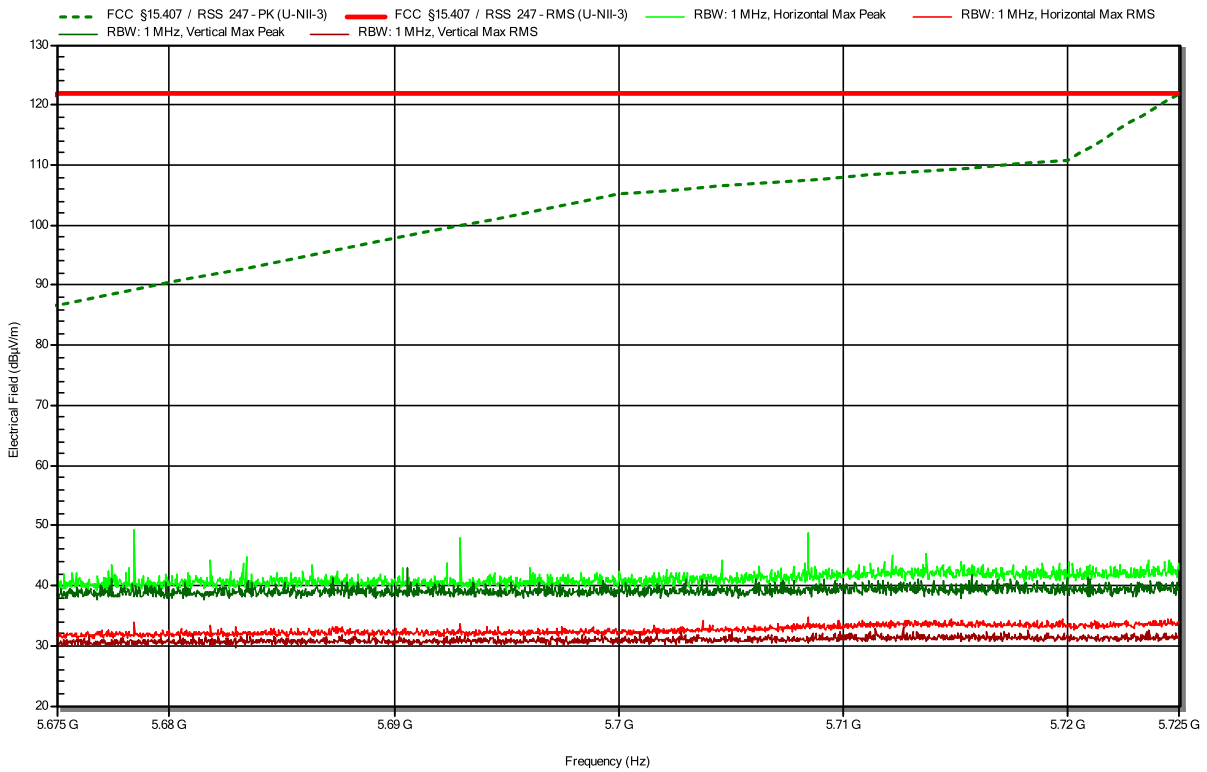


Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE80-TB, 5775 MHz, RU-37 (52tones)
 Test Date: 2024-03-05
 Note: lower band area

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RadiMation



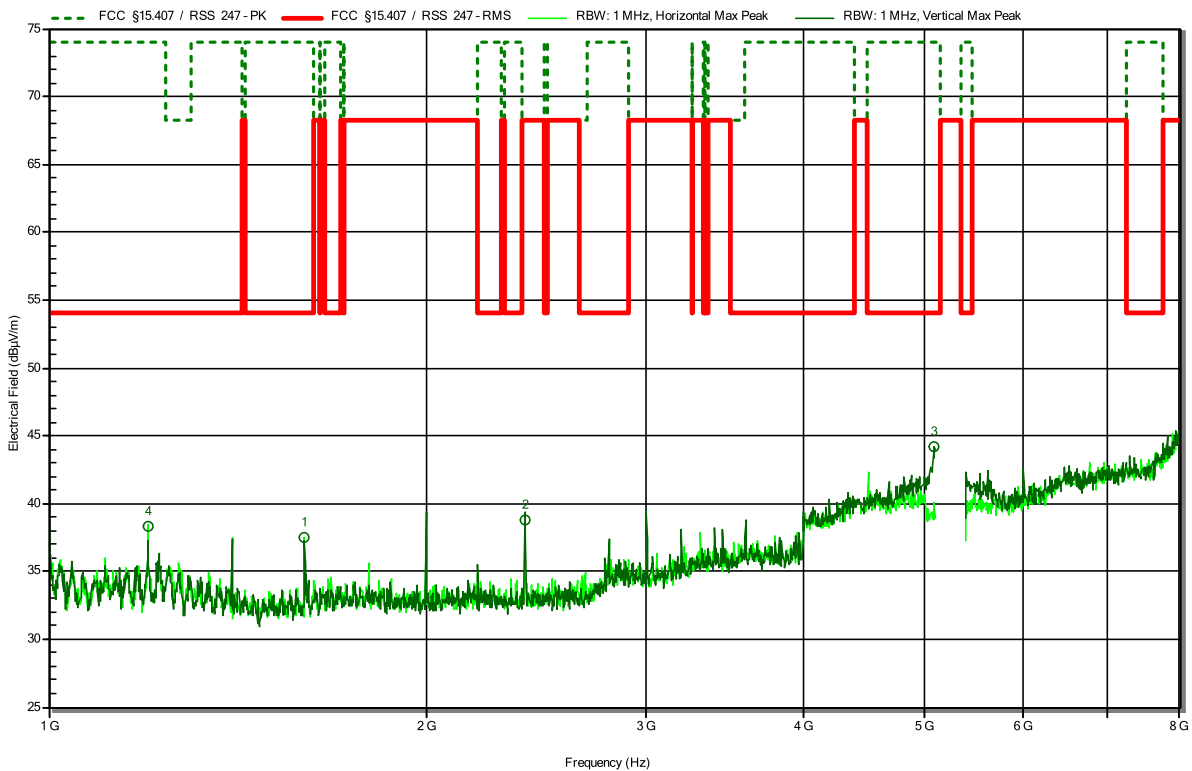
ANNEX B Transmitter spurious emissions with Taoglas antenna

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5180 MHz, 242tones
 Test Date: 2024-02-24
 Note:

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RadiMation



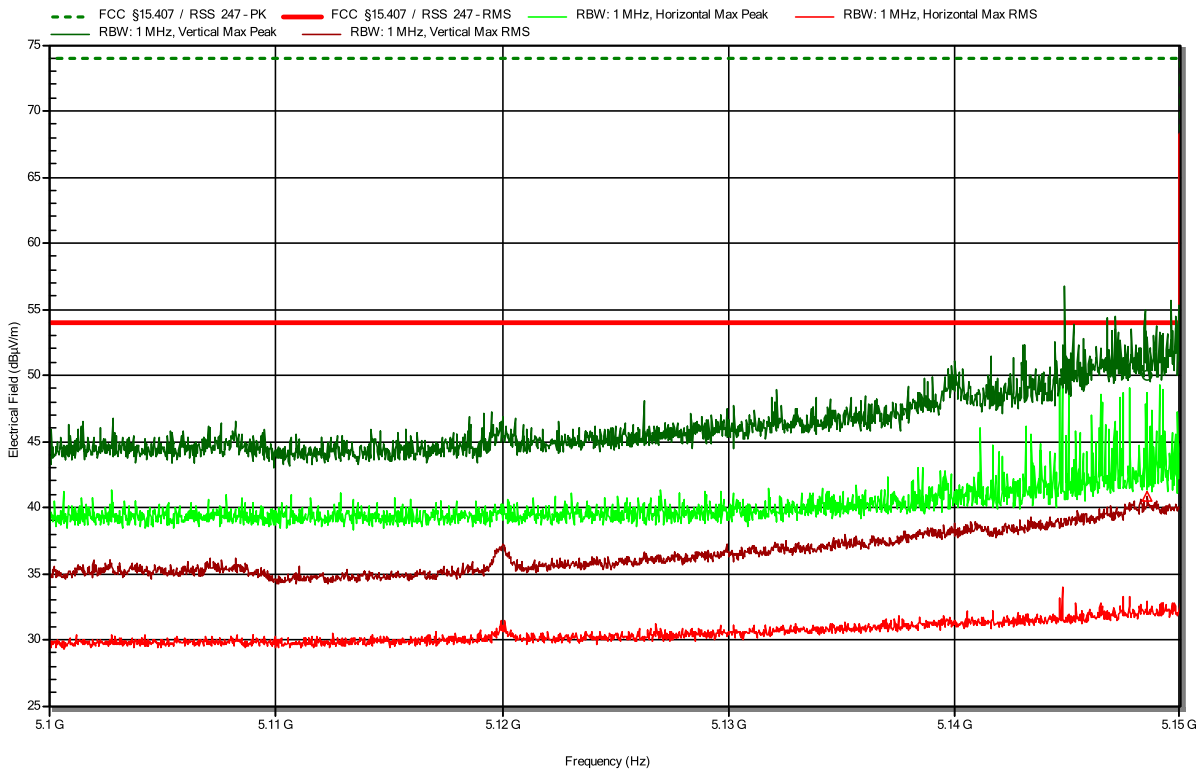
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.2 GHz	38.37 dBµV/m	74 dBµV/m	-35.63 dB	Pass	Horizontal
1.6 GHz	37.49 dBµV/m	74 dBµV/m	-36.51 dB	Pass	Horizontal
2.4 GHz	38.77 dBµV/m	68.2 dBµV/m	-29.43 dB	Pass	Vertical
5.095 GHz	44.18 dBµV/m	74 dBµV/m	-29.82 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5180 MHz, 242Tones
 Test Date: 2024-02-23
 Note: lower band area

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RadiMation



Frequency	RMS	RMS Limit	RMS Difference	RMS Status	Polarization
5.149 GHz	40.88 dBµV/m	54 dBµV/m	-13.12 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.407

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5180 MHz
 Test Date: 2024-02-24
 Note:

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