

5.9 Duty Cycle

RESULT:	For. Ref.
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Date of testing:	2026-06-19, 2026-06-29, 2026-06-30 2026-07-02
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Ambient temperature:	23, 23, 28, 27°C
Relative humidity:	64, 59, 46, 49%
Atmospheric pressure:	1009, 1009, 1006, 1002hPa

Requirements:

N/A, this test item was performed as reference.

Test procedure:

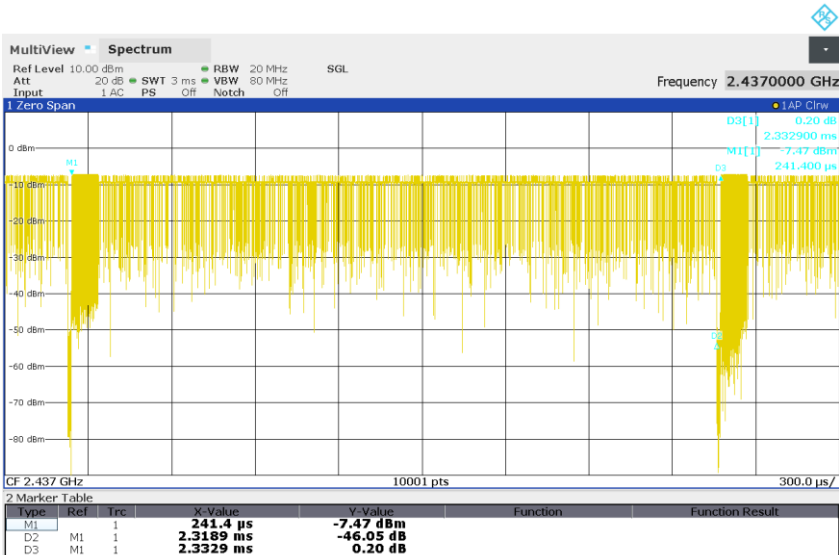
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 §7.5 and KDB 558074 D01.

Table 21: Duty Cycle, Mode B

Operating Frequency [MHz]	Data Rate	On-Time [ms]	Period [ms]	Duty Cycle [%]
802.11b	5.5Mbps	2.3189	2.3329	99.40%
802.11g	6Mbps	2.0654	2.0863	99.00%
802.11n-20	MCS 1	0.9824	1.0010	98.14%

Note: The duty cycle was measured at the data rate that produced the highest output power for each transmit speed.

Figure 54: Duty Cycle, 802.11b, Mode B (2437MHz)



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Figure 55: Duty Cycle, 802.11g, Mode B (2437MHz)

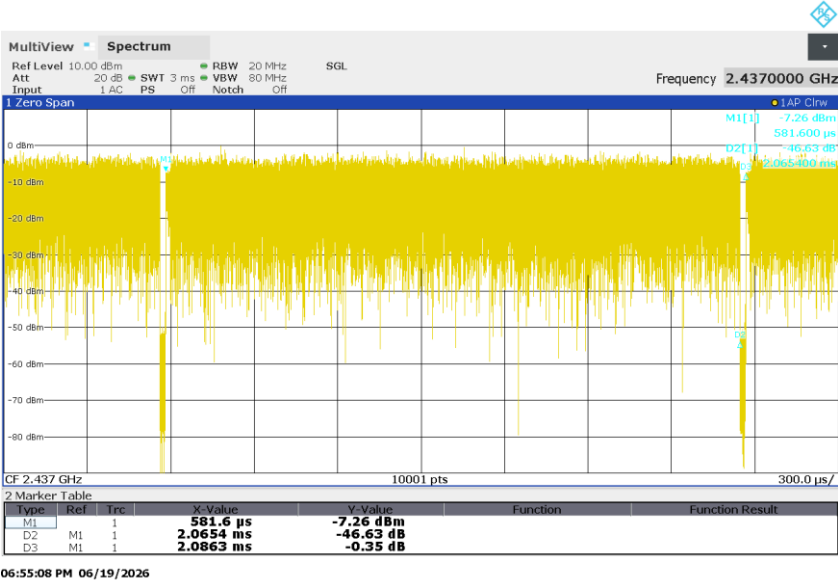
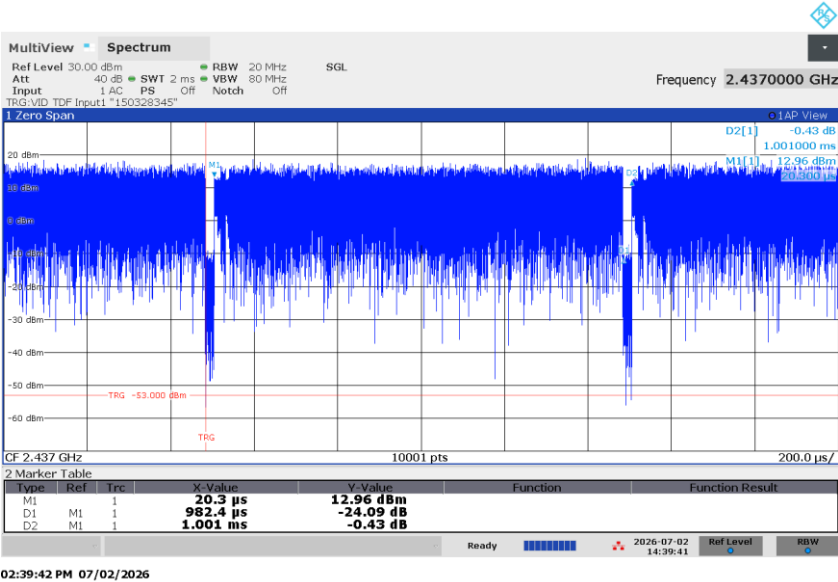


Figure 56: Duty Cycle, 802.11n (HT20), Mode B (2437MHz)



5.10 Radiated Spurious Emissions of Transmitter

RESULT:

Pass

Date of testing: 2026-06-22, 2026-06-23, 2026-06-26

Ambient temperature: 23, 24, 23°C

Relative humidity: 54, 54, 55%

Atmospheric pressure: 1015, 1007, 1006hPa

Frequency range: 9kHz - 25GHz

Measurement distance: 3m

Kind of test site: Semi Anechoic Chamber

Requirements:

FCC §15.205, §15.209, §15.247(d) and RSS-247 §6.6, RSS-Gen §8.9, §8.10.

Radiated emissions which fall in the restricted bands, as defined in FCC §15.205(a) must comply with the radiated emission limits specified in FCC §15.209(a).

Radiated emissions which fall outside the operation frequency band and outside restricted bands shall either meet the limit specified in FCC §15.209(a) or be attenuated at least 20dB below the power level in the 100kHz bandwidth within the band that contains the highest level of the desired power (the less severe limit applies).

Test procedure:

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 §6.3, §6.4, §6.5, §6.6, §6.10 and KDB 558074 D01

The EUT was placed on a nonconductive turntable. The table height was 80cm for measurements below 1GHz and 1.5m for measurements above 1GHz. Before final measurements of radiated emissions were performed, the EUT was scanned to determine its emission spectrum profile. The physical arrangement of the test system, the associated cabling were varied in order to ensure that maximum emission amplitudes were attained.

The spectrum was examined from 9kHz to the 10th harmonic of the highest fundamental transmitter frequency (25GHz). Final radiated emission measurements were made at 3m distance.

At each frequency where a spurious emission was found, the EUT was rotated 360° in order to determine the emission's maximum level. For frequencies above 30MHz, the antenna was raised and lowered from 1 to 4m and measurements were taken using both horizontal and vertical antenna polarizations.

For emissions between 30MHz and 1GHz, measurements were performed with a test receiver operating in the CISPR quasi-peak detection mode with a 6dB bandwidth set to 120kHz.

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For emissions above 1GHz, measurements were performed with a spectrum analyzer using the following settings: for peak field strength: RBW = 1MHz & VBW = 3MHz; for average field strength: RBW = 1MHz & VBW = 10Hz. Positive peak detector was applied.

Absorbers have been placed on the floor between the EUT and the measuring antenna for testing above 1GHz.

The highest emission amplitudes relative to the appropriate limit were recorded in this report. Emissions other than those mentioned are small or not detectable.

Measurement below 1GHz was performed on 802.11g, 2437MHz only, since it has the highest Maximum Conducted Output Power.

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Table 22: Radiated Emissions, Quasi Peak Data, 9kHz - 30MHz, 802.11g, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Angle [°]
0.0098	H	23.5	19.8	43.3	127.8	84.5	169
0.0098	V	23.5	19.8	43.3	127.8	84.5	169
0.0205	H	12.0	19.6	31.6	121.4	89.8	117
0.0352	V	7.1	19.6	26.7	116.7	90.0	2
0.0591	V	2.3	19.6	21.9	112.1	90.2	62
0.2613	H	8.7	19.4	28.1	99.3	71.2	242
0.4004	V	9.4	19.4	28.8	95.6	66.8	208
7.9080	H	4.2	19.7	23.9	69.5	45.6	164
13.9468	H	4.3	19.8	24.1	69.5	45.4	304
22.3059	V	4.7	20.2	24.9	69.5	44.6	204

Note: Level QP = Reading QP + Factor

Table 23: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, 802.11g, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Height [cm]	Angle [°]
43.011	H	36.2	-21.1	15.1	40.0	24.9	100	359
43.216	V	42.8	-21.1	21.7	40.0	18.3	120	359
109.371	V	44.8	-24.0	20.8	43.5	22.7	101	89
137.437	V	43.5	-21.0	22.5	43.5	21.0	100	55
145.887	H	36.9	-20.6	16.3	43.5	27.2	282	280
257.580	H	43.7	-20.7	23.0	46.0	23.0	111	220
889.989	V	30.4	-7.3	23.1	46.0	22.9	168	265
916.541	H	30.7	-7.2	23.5	46.0	22.5	111	161

Note: Level QP = Reading QP + Factor

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Table 24: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11b, Mode A (2412MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1120.113	H	65.3	-20.5	44.8	74.0	29.2	148	359
1128.049	V	63.5	-20.4	43.1	74.0	30.9	138	59
1539.983	H	72.8	-19.5	53.3	74.0	20.7	123	159
1831.849	H	57.6	-19.1	38.5	74.0	35.5	275	359
1924.166	V	62.8	-18.1	44.7	74.0	29.3	352	359
7156.162	H	53.5	-3.9	49.6	74.0	24.4	400	359
9626.890	V	46.7	-3.1	43.6	74.0	30.4	100	359
9710.170	H	47.2	-3.0	44.2	74.0	29.8	100	1
12991.300	H	46.9	0.1	47.0	74.0	27.0	100	3
13430.220	H	47.0	0.0	47.0	74.0	27.0	100	8
15543.200	V	44.1	1.2	45.3	74.0	28.7	100	1
17414.990	V	43.3	4.9	48.2	74.0	25.8	100	229
25002.630	V	46.0	-4.7	41.3	74.0	32.7	100	1

Note: Level PK = Reading PK + Factor

Table 25: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11b, Mode A (2412MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1120.113	H	61.2	-20.5	40.7	54.0	13.3	148	359
1128.049	V	59.3	-20.4	38.9	54.0	15.1	138	59
1539.983	H	63.0	-19.5	43.5	54.0	10.5	123	159
1831.849	H	55.0	-19.1	35.9	54.0	18.1	275	359
1924.166	V	55.5	-18.1	37.4	54.0	16.6	352	359
7156.162	H	51.8	-3.9	47.9	54.0	6.1	400	359
9626.890	V	44.3	-3.1	41.2	54.0	12.8	100	359
9710.170	H	44.5	-3.0	41.5	54.0	12.5	100	1
12991.300	H	43.4	0.1	43.5	54.0	10.5	100	3
13430.220	H	43.7	0.0	43.7	54.0	10.3	100	8
15543.200	V	43.9	1.2	45.1	54.0	8.9	100	1
17414.990	V	39.9	4.9	44.8	54.0	9.2	100	229
25002.630	V	43.5	-4.7	38.8	54.0	15.2	100	1

Note: Level AV = Reading AV + Factor

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Table 26: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11b, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1126.254	H	56.9	-20.4	36.5	74.0	37.5	296	116
1130.470	V	63.6	-20.4	43.2	74.0	30.8	165	359
1539.933	H	71.1	-19.5	51.6	74.0	22.4	267	170
1877.617	H	76.2	-18.7	57.5	74.0	16.5	300	163
7899.419	V	52.8	-3.0	49.8	74.0	24.2	400	6
9748.000	H	46.8	-3.0	43.8	74.0	30.2	100	359
9748.000	V	46.7	-3.0	43.7	74.0	30.3	100	1
14547.060	H	45.5	0.9	46.4	74.0	27.6	100	1
15197.740	V	45.3	1.0	46.3	74.0	27.7	100	359
17284.450	V	43.9	4.4	48.3	74.0	25.7	100	351
17737.560	H	43.0	5.4	48.4	74.0	25.6	100	1
24303.630	V	46.2	-5.1	41.1	74.0	32.9	100	0

Note: Level PK = Reading PK + Factor

Table 27: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11b, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1126.254	H	56.2	-20.4	35.8	54.0	18.2	296	116
1130.470	V	60.6	-20.4	40.2	54.0	13.8	165	359
1539.933	H	61.6	-19.5	42.1	54.0	11.9	267	170
1877.617	H	45.4	-18.7	26.7	54.0	27.3	300	163
7899.419	V	48.9	-3.0	45.9	54.0	8.1	400	6
9748.000	H	43.6	-3.0	40.6	54.0	13.4	100	359
9748.000	V	44.2	-3.0	41.2	54.0	12.8	100	1
14547.060	H	43.1	0.9	44.0	54.0	10.0	100	1
15197.740	V	42.7	1.0	43.7	54.0	10.3	100	359
17284.450	V	38.7	4.4	43.1	54.0	10.9	100	351
17737.560	H	40.5	5.4	45.9	54.0	8.1	100	1
24303.630	V	44.0	-5.1	38.9	54.0	15.1	100	0

Note: Level AV = Reading AV + Factor

Table 28: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11b, Mode C (2462MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBµV]	Factor [dB(1/m)]	Level PK [dBµV/m]	Limit [dBµV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1128.048	V	64.1	-20.4	43.7	74.0	30.3	400	352
1316.301	H	62.5	-19.7	42.8	74.0	31.2	104	355
1539.833	H	70.0	-19.5	50.5	74.0	23.5	234	186
1540.083	V	72.8	-19.5	53.3	74.0	20.7	219	199
1926.483	V	55.9	-18.1	37.8	74.0	36.2	400	187
9848.000	V	47.5	-2.8	44.7	74.0	29.3	168	351
9848.000	H	46.8	-2.8	44.0	74.0	30.0	100	352
16064.470	V	44.4	2.5	46.9	74.0	27.1	100	1
17347.950	H	43.8	4.7	48.5	74.0	25.5	100	359
17710.290	V	43.0	5.3	48.3	74.0	25.7	100	292
17817.570	H	43.1	5.4	48.5	74.0	25.5	100	1
24655.025	V	46.5	-4.7	41.8	74.0	32.2	100	359

Note: Level PK = Reading PK + Factor

Table 29: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11b, Mode C (2462MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBµV]	Factor [dB(1/m)]	Level AV [dBµV/m]	Limit [dBµV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1128.048	V	59.9	-20.4	39.5	54.0	14.5	400	352
1316.301	H	60.5	-19.7	40.8	54.0	13.2	104	355
1539.833	H	61.1	-19.5	41.6	54.0	12.4	234	186
1540.083	V	62.2	-19.5	42.7	54.0	11.3	219	199
1926.483	V	54.3	-18.1	36.2	54.0	17.8	400	187
9848.000	V	44.0	-2.8	41.2	54.0	12.8	168	351
9848.000	H	45.8	-2.8	43.0	54.0	11.0	100	352
16064.470	V	41.3	2.5	43.8	54.0	10.2	100	1
17347.950	H	39.4	4.7	44.1	54.0	9.9	100	359
17710.290	V	40.1	5.3	45.4	54.0	8.6	100	292
17817.570	H	39.7	5.4	45.1	54.0	8.9	100	1
24655.025	V	42.0	-4.7	37.3	54.0	16.7	100	359

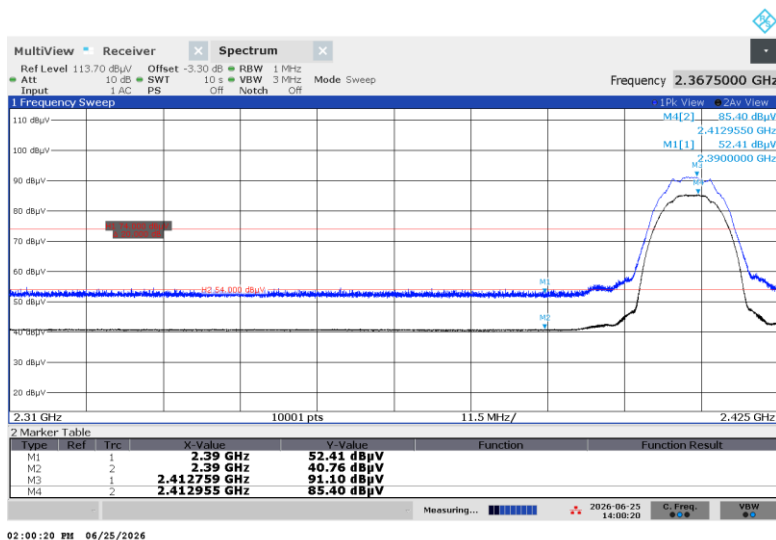
Note: Level AV = Reading AV + Factor

Table 30: Restricted-band Band-edge, 802.11b

Operating Frequency [MHz]	Antenna Orient.	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
2412	H	40.76	52.41	54.00	74.00	13.24	21.59
2412	V	41.92	52.29	54.00	74.00	12.08	21.71
2462	H	40.16	51.18	54.00	74.00	13.84	22.82
2462	V	41.91	53.80	54.00	74.00	12.09	20.20

Note: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
Average limit in dBµV/m is calculated as follows: Average limit = $20 \times \log_{10}(500 \mu V/m)$.
Peak limit in dBµV/m is calculated as follows: Peak limit = Average limit + 20dB.

Figure 57: Restricted-band Band-edge, Spectral Diagram, 802.11b, Mode A (2412MHz), Horizontal Antenna Orientation



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Figure 58: Restricted-band Band-edge, Spectral Diagram, 802.11b, Mode A (2412MHz), Vertical Antenna Orientation

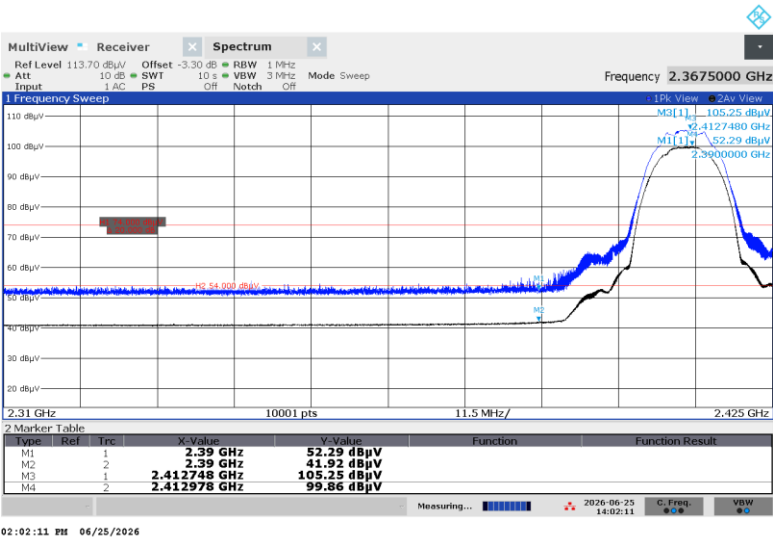


Figure 59: Restricted-band Band-edge, Spectral Diagram, 802.11b, Mode C (2462MHz), Horizontal Antenna Orientation

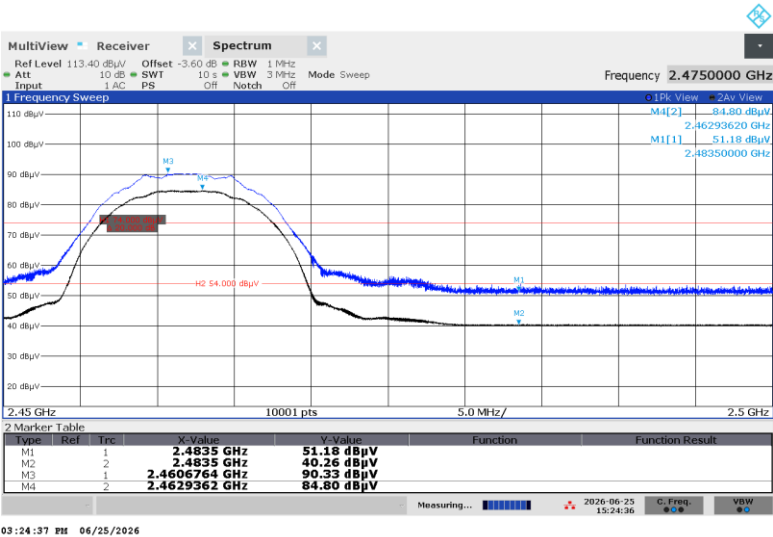


Figure 60: Restricted-band Band-edge, Spectral Diagram, 802.11b, Mode C (2462MHz), Vertical Antenna Orientation

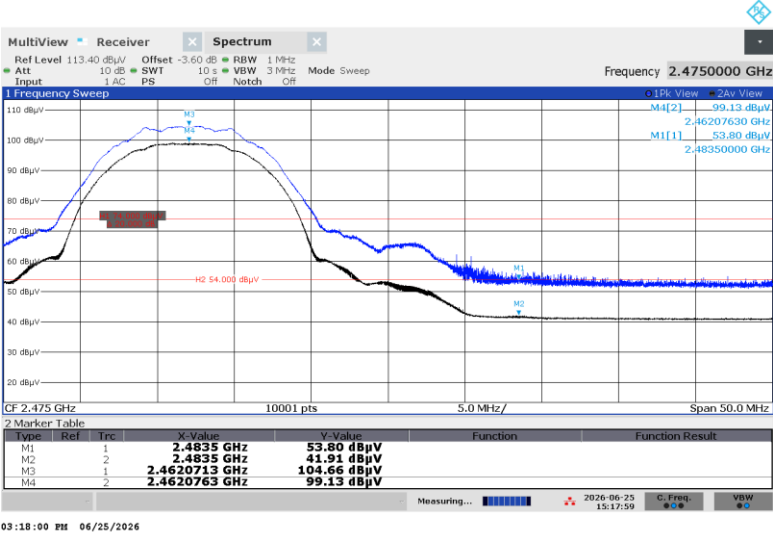


Table 31: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11g, Mode A (2412MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1127.781	V	63.4	-20.4	43.0	74.0	31.0	181	1
1540.033	V	70.3	-19.5	50.8	74.0	23.2	172	198
1876.884	H	55.5	-18.7	36.8	74.0	37.2	400	194
1880.531	V	65.8	-18.7	47.1	74.0	26.9	374	236
2025.933	H	58.3	-16.8	41.5	74.0	32.5	400	270
9648.000	V	47.3	-3.1	44.2	74.0	29.8	100	1
9648.000	H	47.1	-3.1	44.0	74.0	30.0	100	359
11173.670	H	46.4	-1.3	45.1	74.0	28.9	100	359
14156.200	H	45.5	0.4	45.9	74.0	28.1	100	1
15210.630	V	46.2	1.0	47.2	74.0	26.8	196	356
17279.470	V	44.0	4.4	48.4	74.0	25.6	100	1
26056.165	V	46.3	-4.6	41.7	74.0	32.3	100	1

Note: Level PK = Reading PK + Factor

Table 32: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11g, Mode A (2412MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1127.781	V	59.1	-20.4	38.7	54.0	15.3	181	1
1540.033	V	62.8	-19.5	43.3	54.0	10.7	172	198
1876.884	H	55.4	-18.7	36.7	54.0	17.3	400	194
1880.531	V	56.1	-18.7	37.4	54.0	16.6	374	236
2025.933	H	53.9	-16.8	37.1	54.0	16.9	400	270
9648.000	V	43.9	-3.1	40.8	54.0	13.2	100	1
9648.000	H	45.9	-3.1	42.8	54.0	11.2	100	359
11173.670	H	43.2	-1.3	41.9	54.0	12.1	100	359
14156.200	H	42.3	0.4	42.7	54.0	11.3	100	1
15210.630	V	42.1	1.0	43.1	54.0	10.9	196	356
17279.470	V	39.7	4.4	44.1	54.0	9.9	100	1
26056.165	V	42.1	-4.6	37.5	54.0	16.5	100	1

Note: Level AV = Reading AV + Factor

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Table 33: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11g, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1124.914	V	58.4	-20.4	38.0	74.0	36.0	400	359
1308.685	H	61.9	-19.7	42.2	74.0	31.8	100	359
1539.883	H	68.5	-19.5	49.0	74.0	25.0	231	124
1540.233	V	72.8	-19.5	53.3	74.0	20.7	253	195
1938.383	H	69.4	-17.9	51.5	74.0	22.5	400	1
8697.551	V	47.5	-3.1	44.4	74.0	29.6	100	359
9748.000	H	47.5	-3.0	44.5	74.0	29.5	100	1
9748.000	V	46.8	-3.0	43.8	74.0	30.2	100	1
10745.600	V	46.5	-1.4	45.1	74.0	28.9	100	332
17571.620	V	42.7	5.2	47.9	74.0	26.1	100	1

Note: Level PK = Reading PK + Factor

Table 34: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11g, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1124.914	V	55.8	-20.4	35.4	54.0	18.6	400	359
1308.685	H	60.4	-19.7	40.7	54.0	13.3	100	359
1539.883	H	59.2	-19.5	39.7	54.0	14.3	231	124
1540.233	V	63.6	-19.5	44.1	54.0	9.9	253	195
1938.383	H	54.0	-17.9	36.1	54.0	17.9	400	1
8697.551	V	43.0	-3.1	39.9	54.0	14.1	100	359
9748.000	H	43.9	-3.0	40.9	54.0	13.1	100	1
9748.000	V	43.8	-3.0	40.8	54.0	13.2	100	1
10745.600	V	45.4	-1.4	44.0	54.0	10.0	100	332
17571.620	V	40.1	5.2	45.3	54.0	8.7	100	1

Note: Level AV = Reading AV + Factor

Table 35: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11g, Mode C (2462MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1123.637	H	61.1	-20.4	40.7	74.0	33.3	400	359
1539.783	V	70.7	-19.5	51.2	74.0	22.8	239	211
1540.133	H	69.4	-19.5	49.9	74.0	24.1	149	127
1882.851	V	56.0	-18.7	37.3	74.0	36.7	400	1
1925.433	H	71.4	-18.1	53.3	74.0	20.7	349	192
9848.000	V	47.6	-2.8	44.8	74.0	29.2	100	359
9848.000	H	47.1	-2.8	44.3	74.0	29.7	100	359
14828.100	H	44.8	0.9	45.7	74.0	28.3	199	1
15999.360	V	44.3	2.5	46.8	74.0	27.2	100	359
16814.570	V	44.0	3.1	47.1	74.0	26.9	100	4
17805.960	V	43.9	5.4	49.3	74.0	24.7	100	1

Note: Level PK = Reading PK + Factor

Table 36: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11g, Mode C (2462MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1123.637	H	57.5	-20.4	37.1	54.0	16.9	400	359
1539.783	V	64.1	-19.5	44.6	54.0	9.4	239	211
1540.133	H	60.3	-19.5	40.8	54.0	13.2	149	127
1882.851	V	53.8	-18.7	35.1	54.0	18.9	400	1
1925.433	H	54.5	-18.1	36.4	54.0	17.6	349	192
9848.000	V	43.8	-2.8	41.0	54.0	13.0	100	359
9848.000	H	43.9	-2.8	41.1	54.0	12.9	100	359
14828.100	H	42.2	0.9	43.1	54.0	10.9	199	1
15999.360	V	41.7	2.5	44.2	54.0	9.8	100	359
16814.570	V	40.5	3.1	43.6	54.0	10.4	100	4
17805.960	V	39.6	5.4	45.0	54.0	9.0	100	1

Note: Level AV = Reading AV + Factor

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Table 37: Restricted-band Band-edge, 802.11g

Operating Frequency [MHz]	Antenna Orient.	Level AV [dBμV/m]	Level PK [dBμV/m]	Limit AV [dBμV/m]	Limit PK [dBμV/m]	Margin AV [dB]	Margin PK [dB]
2412	H	40.45	51.16	54.00	74.00	13.55	22.84
2412	V	43.33	56.27	54.00	74.00	10.67	17.73
2462	H	40.36	50.92	54.00	74.00	13.64	23.08
2462	V	43.44	58.69	54.00	74.00	10.56	15.31

Note: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
Average limit in dBμV/m is calculated as follows: Average limit = $20 \times \log_{10}(500 \mu V/m)$.
Peak limit in dBμV/m is calculated as follows: Peak limit = Average limit + 20dB.

Figure 61: Restricted-band Band-edge, Spectral Diagram, 802.11g, Mode A (2412MHz), Horizontal Antenna Orientation

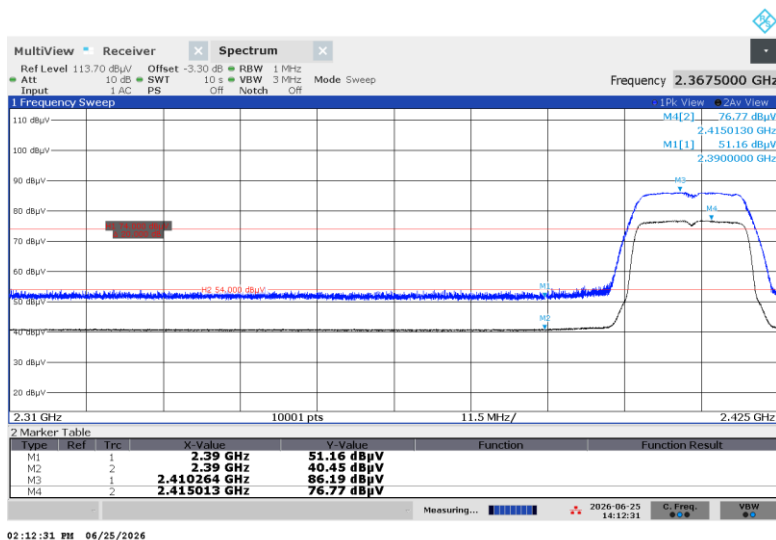


Figure 62: Restricted-band Band-edge, Spectral Diagram, 802.11g, Mode A (2412MHz), Vertical Antenna Orientation

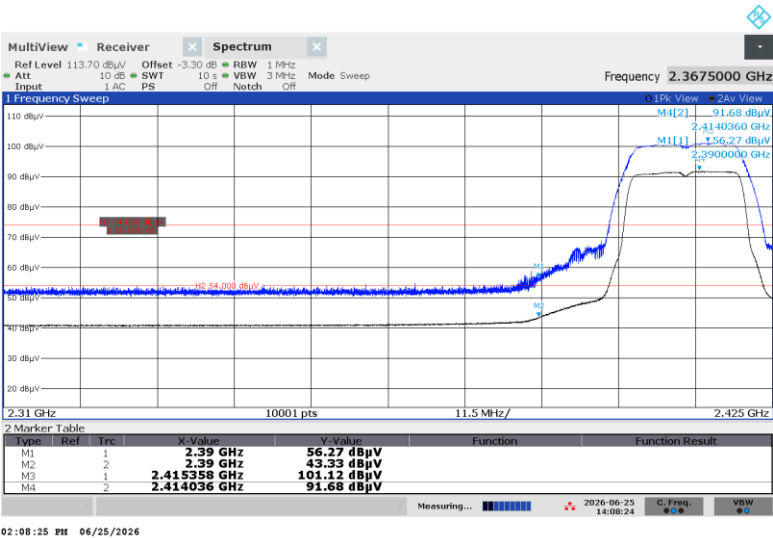


Figure 63: Restricted-band Band-edge, Spectral Diagram, 802.11g, Mode C (2462MHz), Horizontal Antenna Orientation

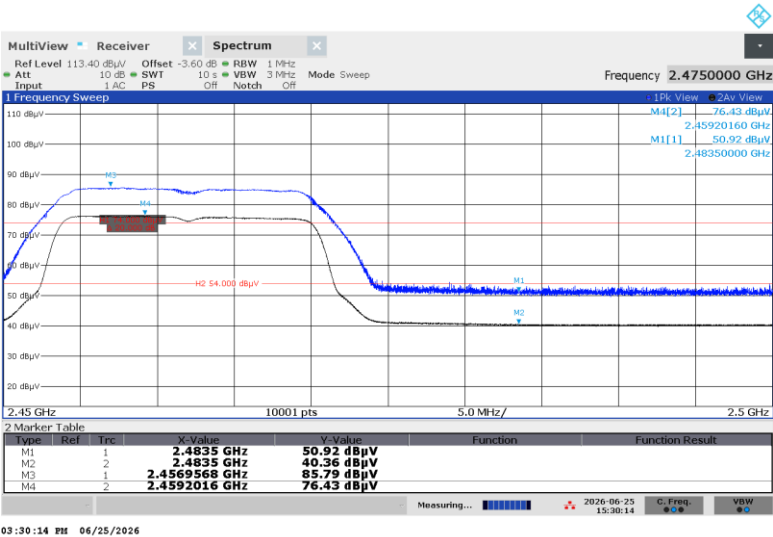
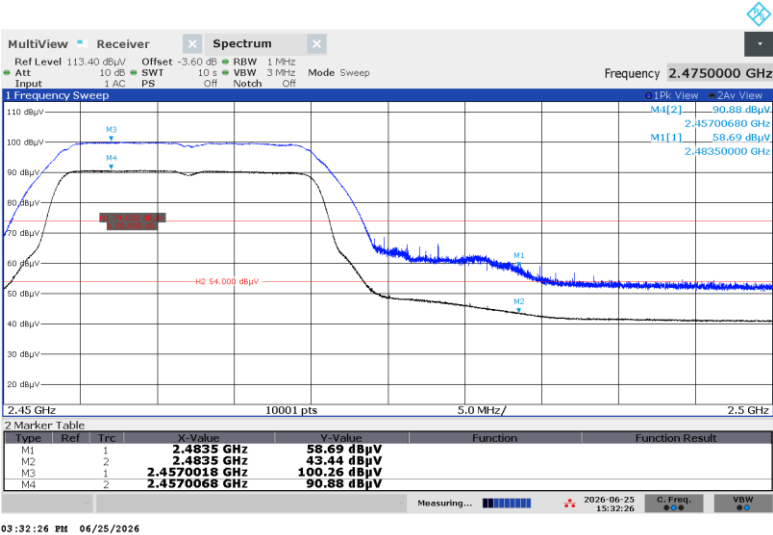


Figure 64: Restricted-band Band-edge, Spectral Diagram, 802.11g, Mode C (2462MHz), Vertical Antenna Orientation



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Table 38: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11n (HT20), Mode A (2412MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1126.460	V	66.1	-20.4	45.7	74.0	28.3	101	122
1539.983	V	68.6	-19.5	49.1	74.0	24.9	149	69
1794.827	H	56.8	-19.4	37.4	74.0	36.6	400	359
1946.617	H	57.3	-17.8	39.5	74.0	34.5	400	359
2009.250	H	61.1	-16.9	44.2	74.0	29.8	400	1
7515.043	V	54.0	-3.9	50.1	74.0	23.9	400	0
7846.310	H	54.3	-3.2	51.1	74.0	22.9	400	359
9648.000	H	47.4	-3.1	44.3	74.0	29.7	199	359
9648.000	V	47.0	-3.1	43.9	74.0	30.1	200	326
16610.680	V	44.2	2.9	47.1	74.0	26.9	199	171
17271.430	H	44.3	4.4	48.7	74.0	25.3	200	359
17787.190	H	44.0	5.4	49.4	74.0	24.6	200	1
17991.717	V	42.9	5.5	48.4	74.0	25.6	200	359

Note: Level PK = Reading PK + Factor

Table 39: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11n (HT20), Mode A (2412MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1126.460	V	57.6	-20.4	37.2	54.0	16.8	101	122
1539.983	V	57.3	-19.5	37.8	54.0	16.2	149	69
1794.827	H	56.2	-19.4	36.8	54.0	17.2	400	359
1946.617	H	55.2	-17.8	37.4	54.0	16.6	400	359
2009.250	H	54.5	-16.9	37.6	54.0	16.4	400	1
7515.043	V	50.4	-3.9	46.5	54.0	7.5	400	0
7846.310	H	49.4	-3.2	46.2	54.0	7.8	400	359
9648.000	H	44.4	-3.1	41.3	54.0	12.7	199	359
9648.000	V	43.6	-3.1	40.5	54.0	13.5	200	326
16610.680	V	40.6	2.9	43.5	54.0	10.5	199	171
17271.430	H	39.2	4.4	43.6	54.0	10.4	200	359
17787.190	H	38.8	5.4	44.2	54.0	9.8	200	1
17991.717	V	39.5	5.5	45.0	54.0	9.0	200	359

Note: Level AV = Reading AV + Factor

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Table 40: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11n (HT20), Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1124.310	V	64.5	-20.4	44.1	74.0	29.9	375	359
1138.480	H	56.4	-20.4	36.0	74.0	38.0	226	359
1334.817	H	55.3	-19.7	35.6	74.0	38.4	158	355
1790.227	H	58.0	-19.4	38.6	74.0	35.4	400	229
1876.866	H	58.2	-18.7	39.5	74.0	34.5	400	1
1974.583	H	58.0	-17.4	40.6	74.0	33.4	400	359
2096.140	V	57.7	-16.2	41.5	74.0	32.5	400	359
5083.963	V	55.3	-9.4	45.9	74.0	28.1	400	359
7473.193	H	53.6	-3.9	49.7	74.0	24.3	400	359
9748.000	H	46.9	-3.0	43.9	74.0	30.1	150	150
9748.000	V	47.3	-3.0	44.3	74.0	29.7	150	150
10037.750	V	46.4	-2.6	43.8	74.0	30.2	199	359
14610.020	H	45.9	1.0	46.9	74.0	27.1	173	52
17741.030	V	43.5	5.4	48.9	74.0	25.1	199	359
17808.530	H	44.2	5.4	49.6	74.0	24.4	199	359

Note: Level PK = Reading PK + Factor

Table 41: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11n (HT20), Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1124.310	V	55.3	-20.4	34.9	54.0	19.1	375	359
1138.480	H	57.1	-20.4	36.7	54.0	17.3	226	359
1334.817	H	57.9	-19.7	38.2	54.0	15.8	158	355
1790.227	H	54.8	-19.4	35.4	54.0	18.6	400	229
1876.866	H	54.6	-18.7	35.9	54.0	18.1	400	1
1974.583	H	54.6	-17.4	37.2	54.0	16.8	400	359
2096.140	V	54.2	-16.2	38.0	54.0	16.0	400	359
5083.963	V	52.4	-9.4	43.0	54.0	11.0	400	359
7473.193	H	50.3	-3.9	46.4	54.0	7.6	400	359
9748.000	H	43.5	-3.0	40.5	54.0	13.5	150	150
9748.000	V	39.1	-3.0	36.1	54.0	17.9	150	150
10037.750	V	42.8	-2.6	40.2	54.0	13.8	199	359
14610.020	H	42.5	1.0	43.5	54.0	10.5	173	52
17741.030	V	41.1	5.4	46.5	54.0	7.5	199	359
17808.530	H	40.2	5.4	45.6	54.0	8.4	199	359

Note: Level AV = Reading AV + Factor

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Table 42: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11n (HT20), Mode C (2462MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1122.870	V	56.2	-20.4	35.8	74.0	38.2	400	1
1539.833	H	70.6	-19.5	51.1	74.0	22.9	197	116
1829.717	V	55.7	-19.1	36.6	74.0	37.4	180	359
1924.469	H	72.3	-18.1	54.2	74.0	19.8	100	119
1973.133	V	58.1	-17.4	40.7	74.0	33.3	398	359
4556.633	H	56.6	-11.1	45.5	74.0	28.5	400	1
4868.780	V	55.2	-10.0	45.2	74.0	28.8	119	359
7331.583	H	53.5	-3.6	49.9	74.0	24.1	400	1
9643.310	H	47.0	-3.1	43.9	74.0	30.1	198	1
9694.660	V	46.9	-3.1	43.8	74.0	30.2	100	3
13621.080	V	46.0	-0.2	45.8	74.0	28.2	200	83
17245.570	V	44.6	4.3	48.9	74.0	25.1	199	359
17255.070	H	44.2	4.3	48.5	74.0	25.5	200	1

Note: Level PK = Reading PK + Factor

Table 43: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, 802.11n (HT20), Mode C (2462MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1122.870	V	54.9	-20.4	34.5	54.0	19.5	400	1
1539.833	H	60.6	-19.5	41.1	54.0	12.9	197	116
1829.717	V	54.1	-19.1	35.0	54.0	19.0	180	359
1924.469	H	54.3	-18.1	36.2	54.0	17.8	100	119
1973.133	V	54.9	-17.4	37.5	54.0	16.5	398	359
4556.633	H	52.6	-11.1	41.5	54.0	12.5	400	1
4868.780	V	53.6	-10.0	43.6	54.0	10.4	119	359
7331.583	H	49.1	-3.6	45.5	54.0	8.5	400	1
9643.310	H	43.2	-3.1	40.1	54.0	13.9	198	1
9694.660	V	43.4	-3.1	40.3	54.0	13.7	100	3
13621.080	V	44.3	-0.2	44.1	54.0	9.9	200	83
17245.570	V	40.7	4.3	45.0	54.0	9.0	199	359
17255.070	H	40.4	4.3	44.7	54.0	9.3	200	1

Note: Level AV = Reading AV + Factor

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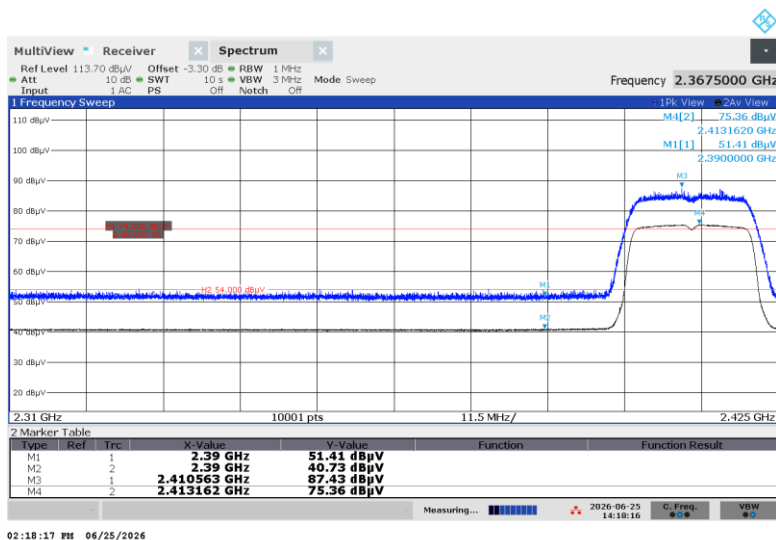
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Table 44: Restricted-band Band-edge, 802.11n (HT20)

Operating Frequency [MHz]	Antenna Orient.	Level AV [dBμV/m]	Level PK [dBμV/m]	Limit AV [dBμV/m]	Limit PK [dBμV/m]	Margin AV [dB]	Margin PK [dB]
2412	H	40.73	51.41	54.00	74.00	13.27	22.59
2412	V	42.68	55.38	54.00	74.00	11.32	18.62
2462	H	40.36	50.88	54.00	74.00	13.64	23.12
2462	V	43.64	56.77	54.00	74.00	10.36	17.23

Note: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
Average limit in dBμV/m is calculated as follows: Average limit = $20 \times \log_{10}(500 \mu\text{V/m})$.
Peak limit in dBμV/m is calculated as follows: Peak limit = Average limit + 20dB.

Figure 65: Restricted-band Band-edge, Spectral Diagram, 802.11n (HT20), Mode A (2412MHz), Horizontal Antenna Orientation



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Figure 66: Restricted-band Band-edge, Spectral Diagram, 802.11n (HT20), Mode A (2412MHz), Vertical Antenna Orientation

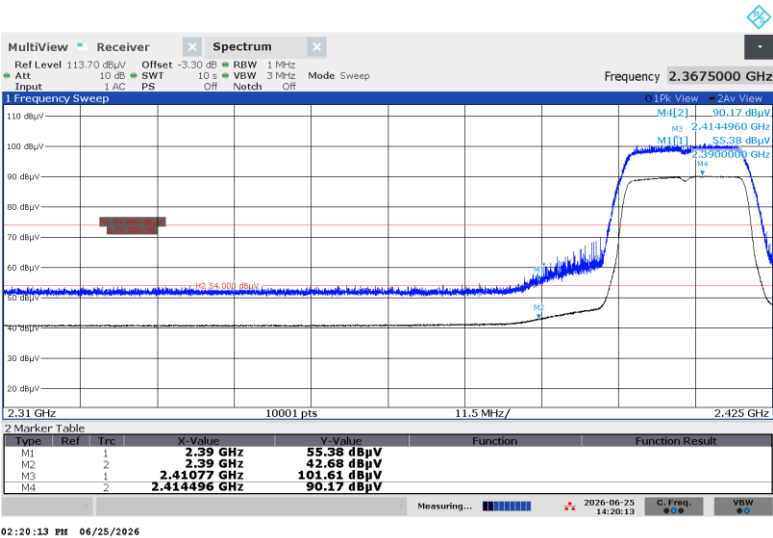


Figure 67: Restricted-band Band-edge, Spectral Diagram, 802.11n (HT20), Mode C (2462MHz), Horizontal Antenna Orientation

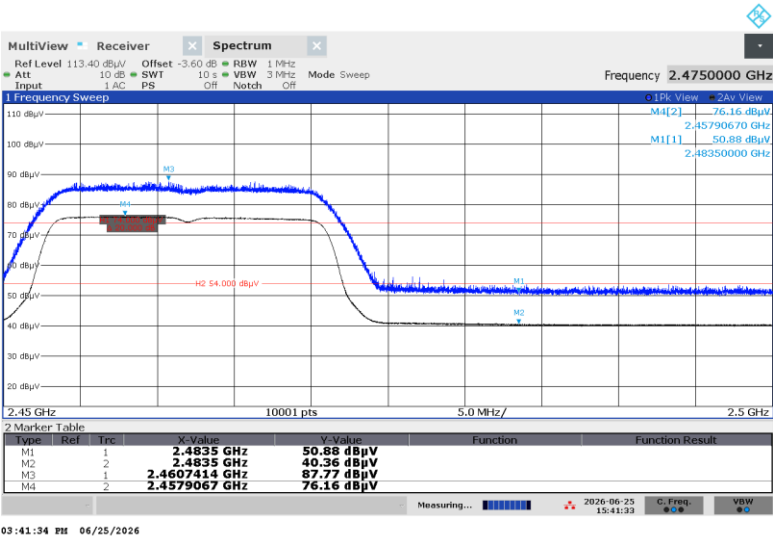
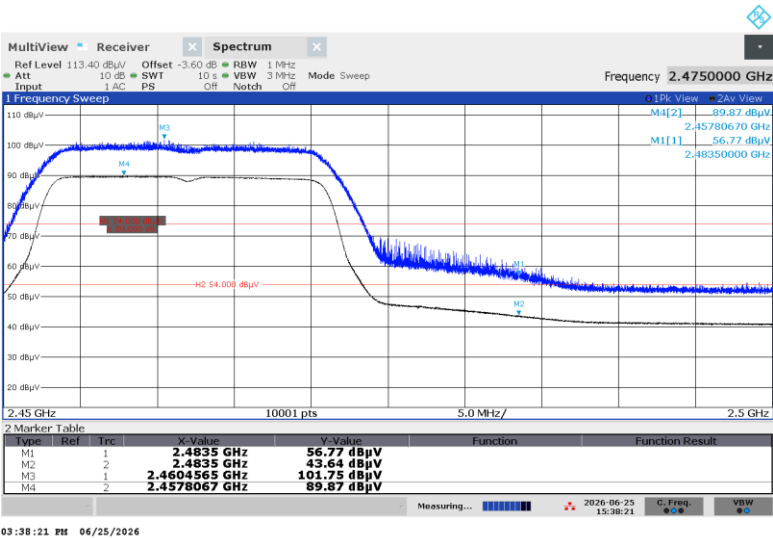


Figure 68: Restricted-band Band-edge, Spectral Diagram, 802.11n (HT20), Mode C (2462MHz), Vertical Antenna Orientation



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Table 45: Radiated Emissions, Quasi Peak Data, 9kHz - 30MHz, Simultaneous Transmission, Bluetooth 3DH1 Middle CH + 802.11g, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Angle [°]
0.0092	H	20.4	19.9	40.3	128.3	88.0	177
0.0101	V	20.1	19.8	39.9	127.5	87.6	174
0.5528	V	6.5	19.4	25.9	72.7	46.8	132
0.6163	H	5.1	19.4	24.5	71.8	47.3	86
0.7023	V	6.0	19.4	25.4	70.7	45.3	201
2.8877	H	3.9	19.5	23.4	69.5	46.1	56
8.8184	V	6.3	19.7	26.0	69.5	43.5	350
23.1320	H	4.6	20.2	24.8	69.5	44.7	1
28.8917	V	6.8	19.9	26.7	69.5	42.8	286

Note: Level QP = Reading QP + Factor

Table 46: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, Simultaneous Transmission, Bluetooth 3DH1 Middle CH + 802.11g, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Height [cm]	Angle [°]
31.412	V	56.6	-22.1	34.5	40.0	5.5 (*)	100	104
31.856	H	48.4	-22.0	26.4	40.0	13.6	390	151
43.925	V	51.2	-21.1	30.1	40.0	9.9	100	305
46.500	H	49.1	-21.0	28.1	40.0	11.9	400	227
53.484	V	51.4	-21.2	30.2	40.0	9.8	100	202
61.491	H	49.7	-21.9	27.8	40.0	12.2	271	190
83.070	V	49.2	-25.8	23.4	40.0	16.6	181	47
187.688	V	44.0	-21.9	22.1	43.5	21.4	100	157
335.294	H	39.6	-17.8	21.8	46.0	24.2	100	204

Note: Level QP = Reading QP + Factor

(*) The measured result is below the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to determine compliance at a level of confidence of 95%. However, the measured result indicates a high probability that the tested product complies with the specification limit.

Table 47: Radiated Emissions, Peak Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Simultaneous Transmission, Bluetooth 3DH1 Middle CH + 802.11g, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
1140.033	V	55.5	-20.3	35.2	74.0	38.8	100	100
1312.200	H	63.2	-19.7	43.5	74.0	30.5	400	346
1539.917	H	76.3	-19.5	56.8	74.0	17.2	164	152
1542.483	V	68.8	-19.4	49.4	74.0	24.6	128	126
1983.883	H	61.6	-17.2	44.4	74.0	29.6	168	86
2061.200	V	59.2	-16.5	42.7	74.0	31.3	241	164
7676.233	V	53.7	-3.6	50.1	74.0	23.9	400	359
9748.000	H	46.5	-3.0	43.5	74.0	30.5	100	359
9748.000	V	47.1	-3.0	44.1	74.0	29.9	100	359
12344.480	H	45.7	-0.3	45.4	74.0	28.6	100	1
12348.790	V	46.1	-0.3	45.8	74.0	28.2	183	359
14634.130	V	46.6	1.0	47.6	74.0	26.4	100	359
17094.600	V	44.5	3.7	48.2	74.0	25.8	100	281
21786.885	H	47.6	-6.4	41.2	74.0	32.8	100	99
21825.165	V	47.7	-6.4	41.3	74.0	32.7	199	359
24246.145	V	46.1	-5.1	41.0	74.0	33.0	196	1
24340.980	H	47.2	-5.1	42.1	74.0	31.9	199	359

Note: Level PK = Reading PK + Factor

Table 48: Radiated Emissions, Average Data, 1 - 25GHz, Horizontal and Vertical Antenna Orientations, Simultaneous Transmission, Bluetooth 3DH1 Middle CH + 802.11g, Mode B (2437MHz)

Freq. [MHz]	Antenna Orient.	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
1140.033	V	56.6	-20.3	36.3	54.0	17.7	100	100
1312.200	H	59.6	-19.7	39.9	54.0	14.1	400	346
1539.917	H	65.4	-19.5	45.9	54.0	8.1	164	152
1542.483	V	62.2	-19.4	42.8	54.0	11.2	128	126
1983.883	H	54.8	-17.2	37.6	54.0	16.4	168	86
2061.200	V	54.7	-16.5	38.2	54.0	15.8	241	164
7676.233	V	50.0	-3.6	46.4	54.0	7.6	400	359
9748.000	H	43.8	-3.0	40.8	54.0	13.2	100	359
9748.000	V	44.2	-3.0	41.2	54.0	12.8	100	359
12344.480	H	42.6	-0.3	42.3	54.0	11.7	100	1
12348.790	V	43.0	-0.3	42.7	54.0	11.3	183	359
14634.130	V	42.6	1.0	43.6	54.0	10.4	100	359
17094.600	V	41.2	3.7	44.9	54.0	9.1	100	281
21786.885	H	44.5	-6.4	38.1	54.0	15.9	100	99
21825.165	V	44.9	-6.4	38.5	54.0	15.5	199	359
24246.145	V	43.5	-5.1	38.4	54.0	15.6	196	1
24340.980	H	43.9	-5.1	38.8	54.0	15.2	199	359

Note: Level AV = Reading AV + Factor

Table 49: Restricted-band Band-edge, Simultaneous Transmission, Bluetooth 3DH1 + 802.11g

Operating Frequency [MHz]	Antenna Orient.	Level AV [dBµV/m]	Level PK [dBµV/m]	Limit AV [dBµV/m]	Limit PK [dBµV/m]	Margin AV [dB]	Margin PK [dB]
2412	H	40.69	51.06	54.00	74.00	13.31	22.94
2412	V	40.78	52.31	54.00	74.00	13.22	21.69
2462	H	40.12	50.98	54.00	74.00	13.88	23.02
2462	V	40.18	50.16	54.00	74.00	13.82	23.84

Note: All correction factors (antenna, cable, pre-amplifier) are included in the measurement values.
Average limit in dBµV/m is calculated as follows: Average limit = $20 \times \log_{10}(500\mu\text{V/m})$.
Peak limit in dBµV/m is calculated as follows: Peak limit = Average limit + 20dB.

Figure 69: Restricted-band Band-edge, Spectral Diagram, Simultaneous Transmission, Bluetooth 3DH1 Low CH + 802.11g, Mode A (2412MHz), Horizontal Antenna Orientation

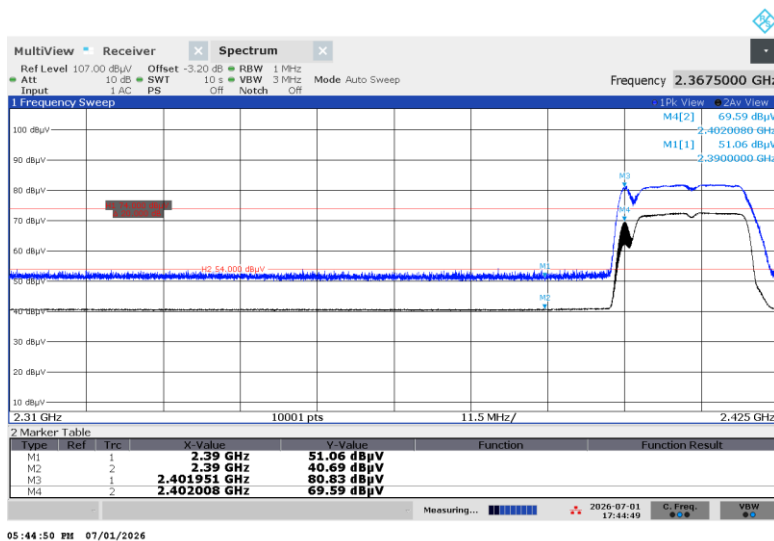


Figure 70: Restricted-band Band-edge, Spectral Diagram, Simultaneous Transmission, Bluetooth 3DH1 Low CH + 802.11g, Mode A (2412MHz), Vertical Antenna Orientation

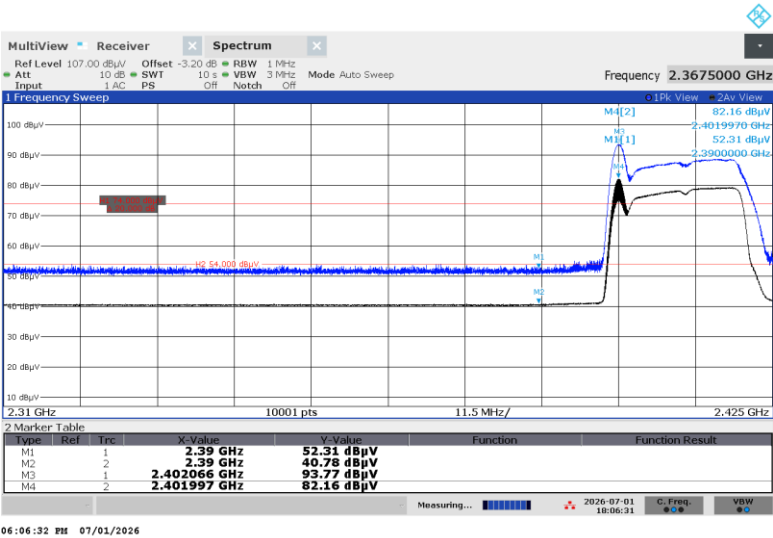


Figure 71: Restricted-band Band-edge, Spectral Diagram, Simultaneous Transmission, Bluetooth 3DH1 High CH + 802.11g, Mode C (2462MHz), Horizontal Antenna Orientation

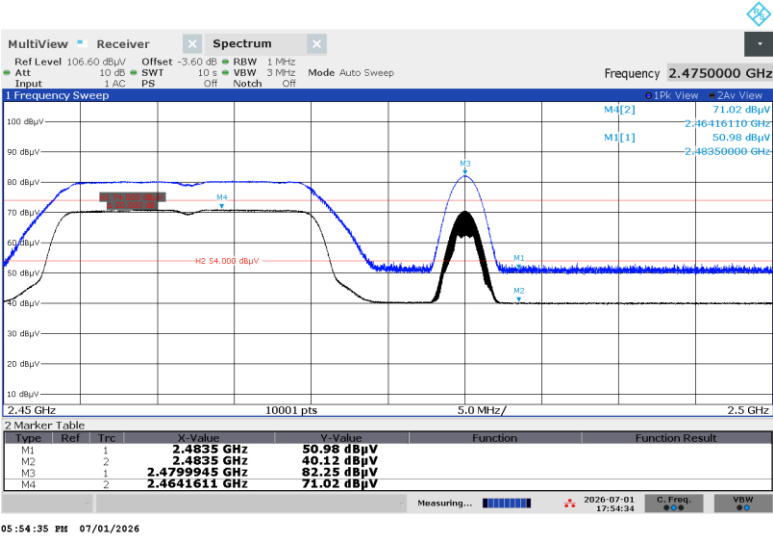
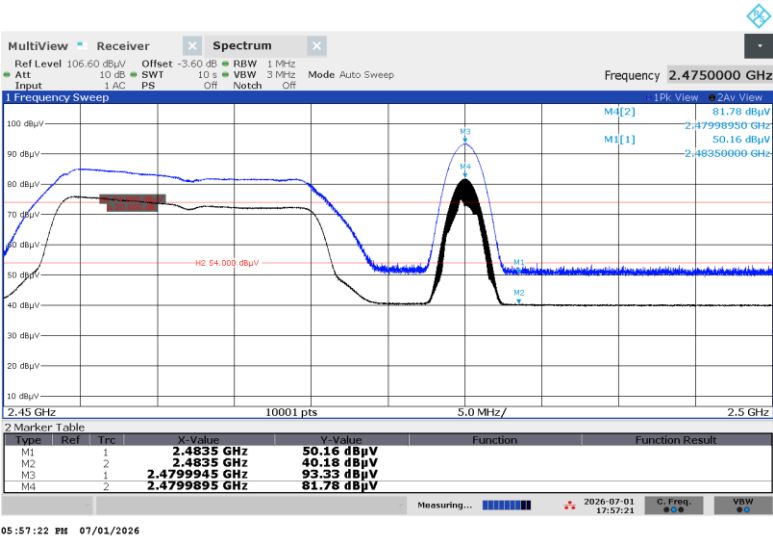


Figure 72: Restricted-band Band-edge, Spectral Diagram, Simultaneous Transmission, Bluetooth 3DH1 High CH + 802.11g, Mode C (2462MHz), Vertical Antenna Orientation



05:57:22 PM 07/01/2026

5.11 AC Power Line Conducted Emission of Transmitter

RESULT:

N/A

Requirements:

FCC §15.207 and RSS-Gen §8.8

The AC power line conducted emission on any frequency within the band 150kHz to 30MHz shall not exceed the limits specified in FCC §15.207(a) and RSS-Gen §8.8 (table 4).

Test procedure:

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024 §6.2 and RSS-Gen §8.1

Note:

Not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.

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– End of test report –