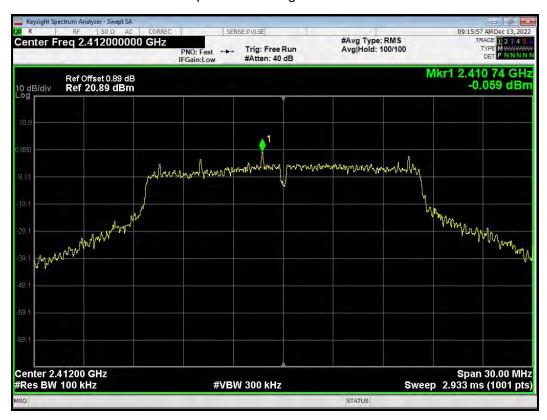
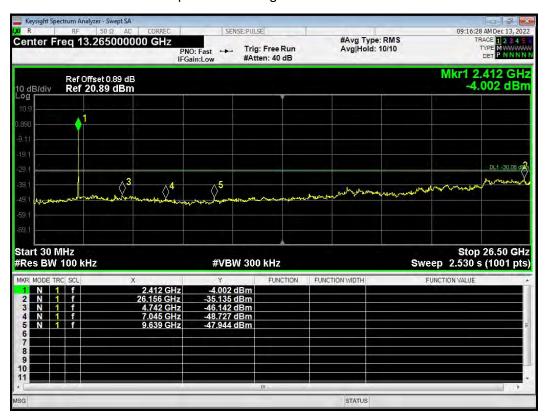
Tx. Spurious 802.11g 2412MHz Ref



Tx. Spurious 802.11g 2412MHz Emission



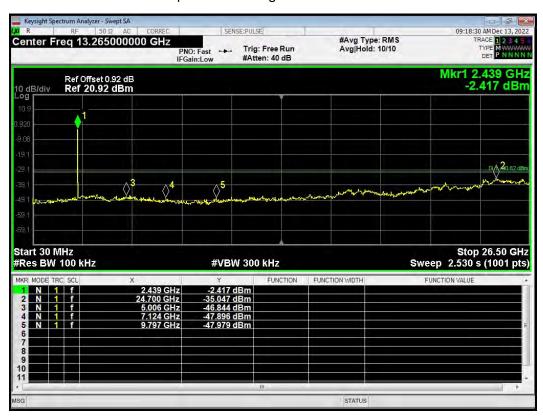
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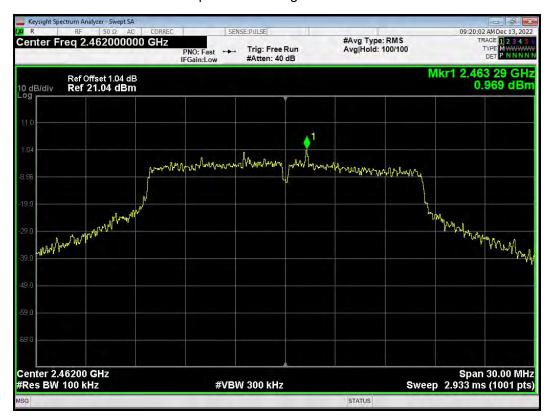
Tx. Spurious 802.11g 2437MHz Ref



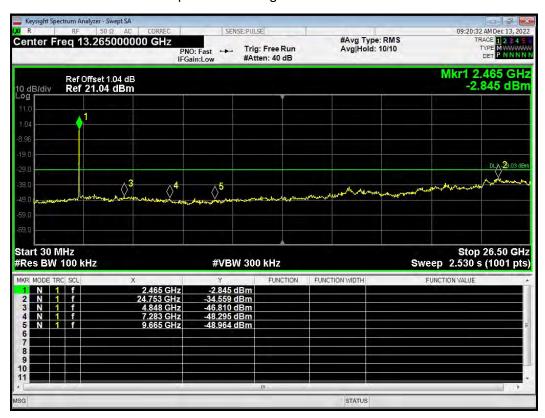
Tx. Spurious 802.11g 2437MHz Emission



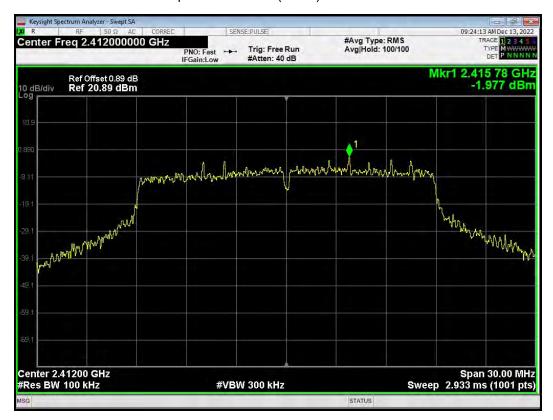
Tx. Spurious 802.11g 2462MHz Ref



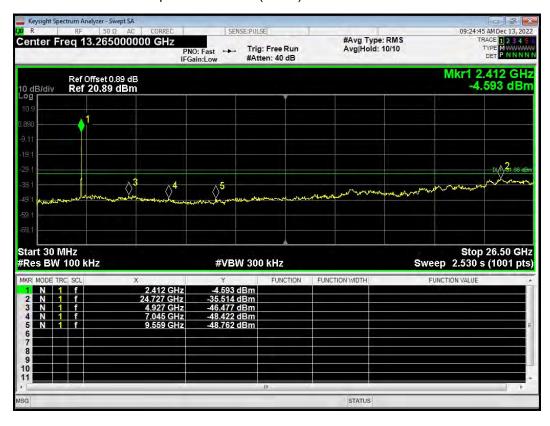
Tx. Spurious 802.11g 2462MHz Emission



Tx. Spurious 802.11n(HT20) 2412MHz Ref



Tx. Spurious 802.11n(HT20) 2412MHz Emission

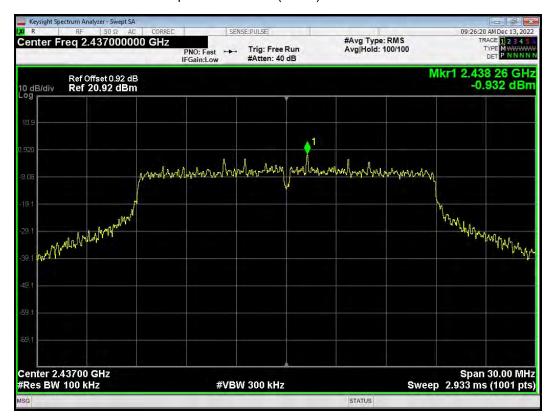


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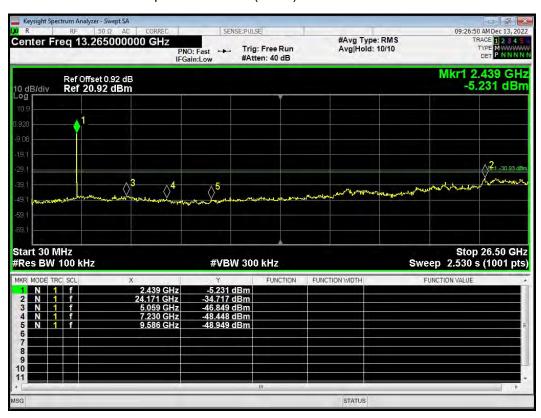
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Tx. Spurious 802.11n(HT20) 2437MHz Ref



Tx. Spurious 802.11n(HT20) 2437MHz Emission



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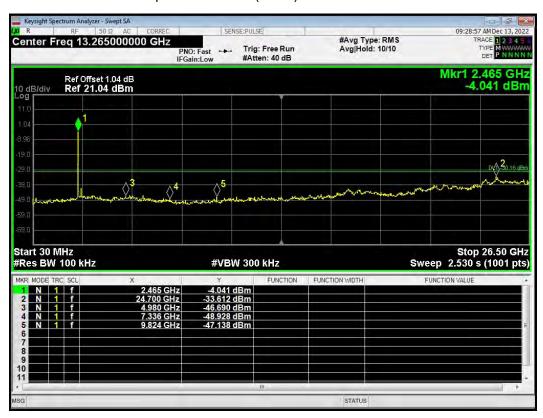
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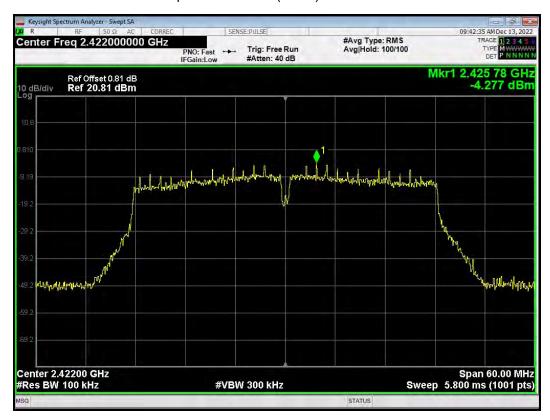
Tx. Spurious 802.11n(HT20) 2462MHz Ref



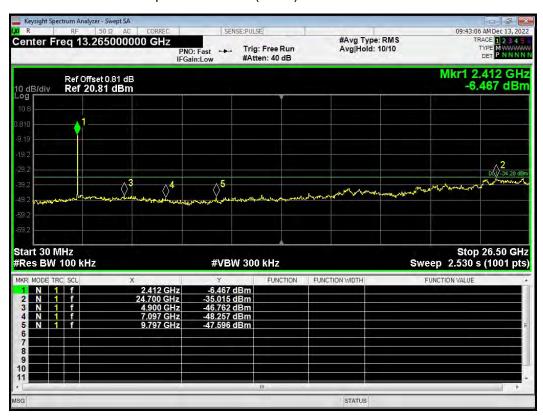
Tx. Spurious 802.11n(HT20) 2462MHz Emission



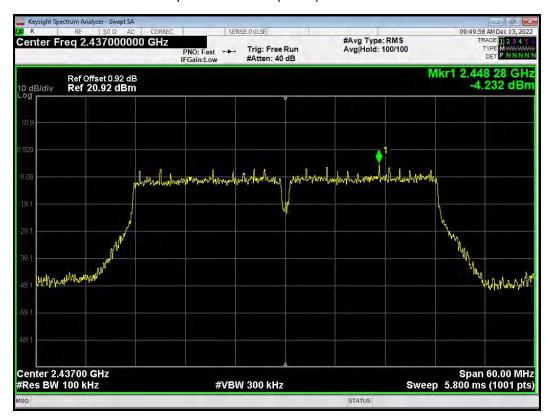
Tx. Spurious 802.11n(HT40) 2422MHz Ref



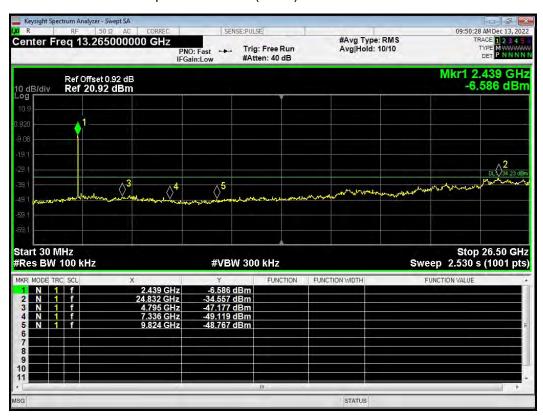
Tx. Spurious 802.11n(HT40) 2422MHz Emission



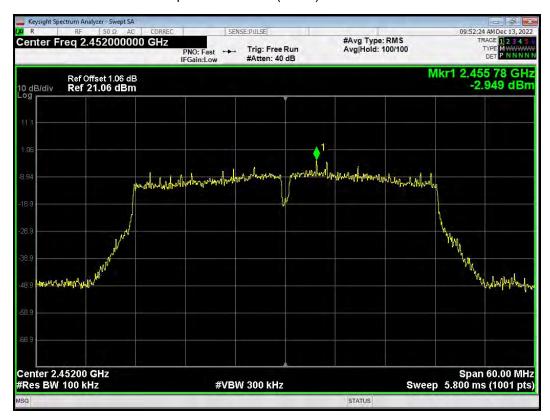
Tx. Spurious 802.11n(HT40) 2437MHz Ref



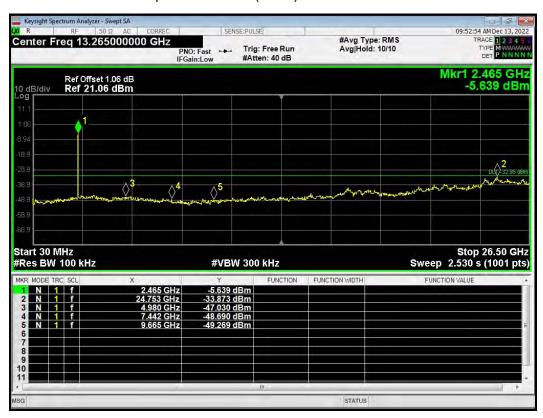
Tx. Spurious 802.11n(HT40) 2437MHz Emission



Tx. Spurious 802.11n(HT40) 2452MHz Ref



Tx. Spurious 802.11n(HT40) 2452MHz Emission



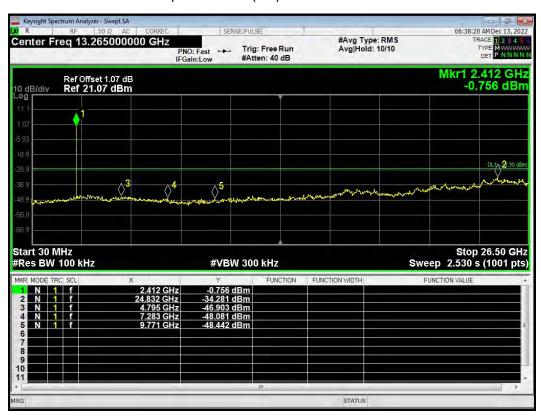
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Tx. Spurious BLE (1M) 2402MHz Ref



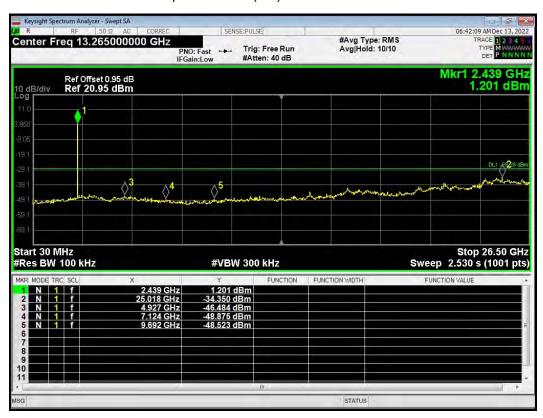
Tx. Spurious BLE (1M) 2402MHz Emission



Tx. Spurious BLE (1M) 2440MHz Ref



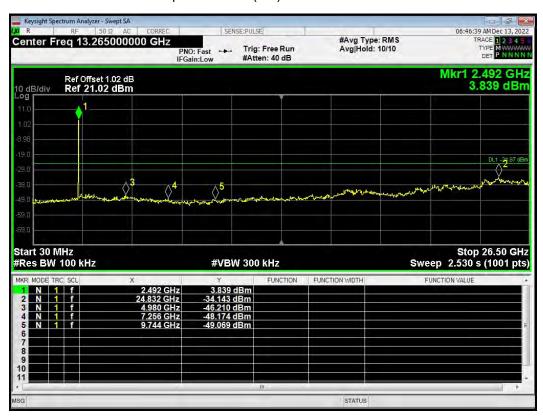
Tx. Spurious BLE (1M) 2440MHz Emission



Tx. Spurious BLE (1M) 2480MHz Ref



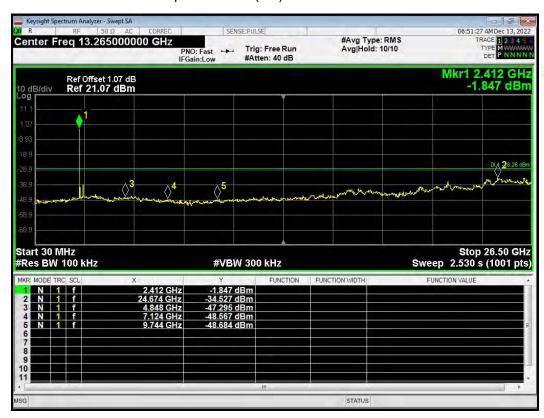
Tx. Spurious BLE (1M) 2480MHz Emission



Tx. Spurious BLE (2M) 2402MHz Ref



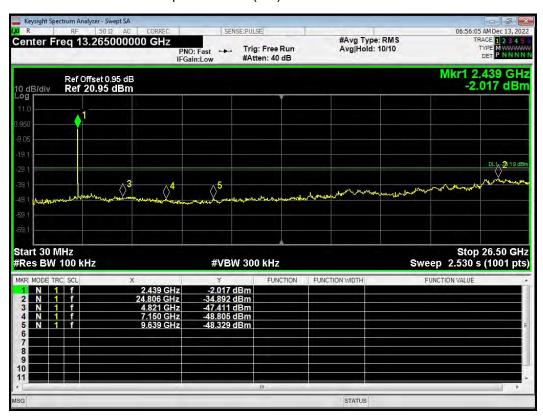
Tx. Spurious BLE (2M) 2402MHz Emission



Tx. Spurious BLE (2M) 2440MHz Ref



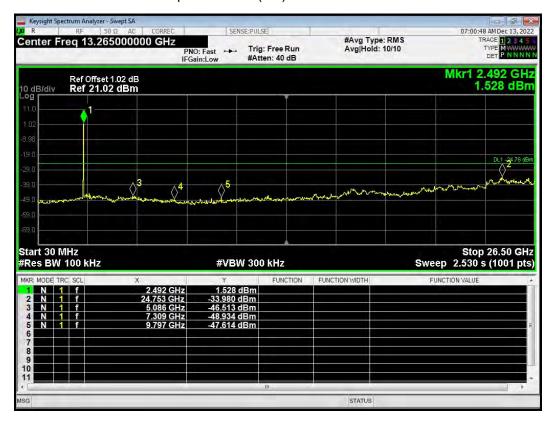
Tx. Spurious BLE (2M) 2440MHz Emission



Tx. Spurious BLE (2M) 2480MHz Ref



Tx. Spurious BLE (2M) 2480MHz Emission



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5.6. Unwanted Emission

Ambient Condition

Temperature	Relative humidity	Pressure		
23°C ~25°C	45%~50%	102.5kPa		

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10.

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna.

The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. Sweep the Restricted Band and the emissions less than 20 dB below the permissible value are reported.

The radiated emissions measurements were made in a typical installation configuration.

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

This method refer to ANSI C63.10.

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9KHz, VBW=30KHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

- c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage



averaging. Log or dB averaging shall not be used.)

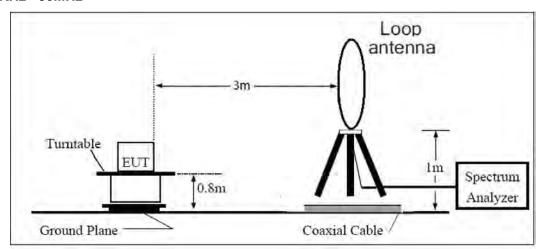
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.
- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

The test is in transmitting mode.

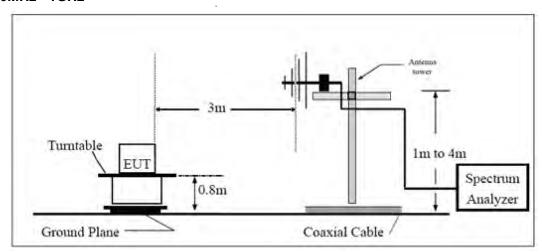


Test Setup

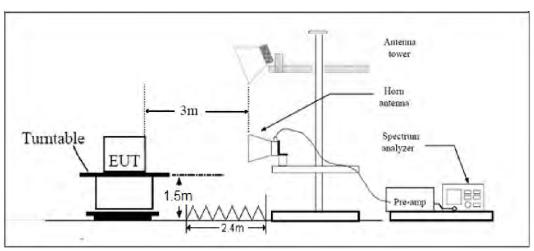
9KHz~30MHz



30MHz~1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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Limits

Rule Part 15.247(d) specifies that "In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))."

Limit in restricted band

Frequency of emission (MHz)	Field strength(µV/m)	Field strength(dBµV/m)	
0.009-0.490	2400/F(kHz)	1	
0.490-1.705	24000/F(kHz)	1	
1.705–30.0	30	1	
30-88	100	40	
88-216	150	43.5	
216-960	200	46	
Above960	500	54	

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit. Peak Limit=74 dB μ V/m

Average Limit=54 dBµV/m



Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

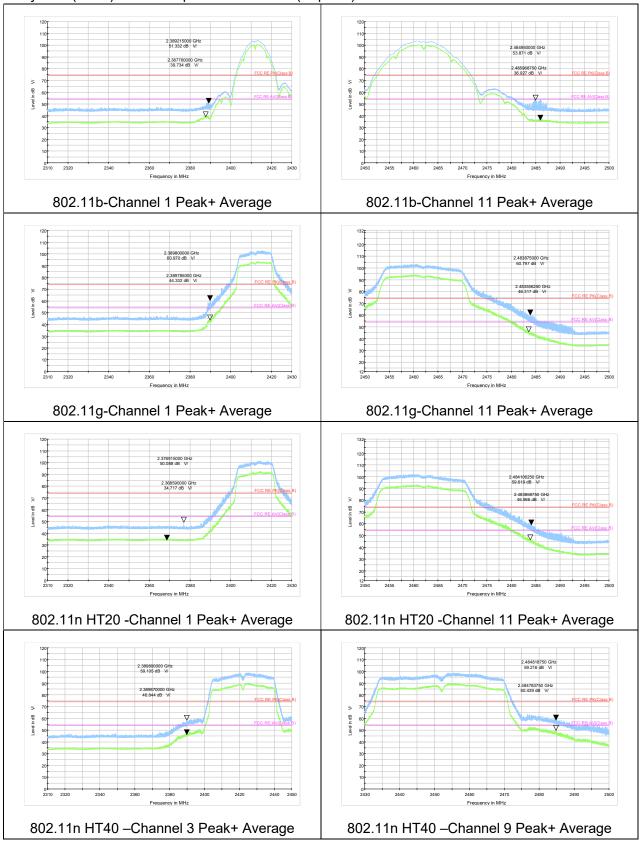
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

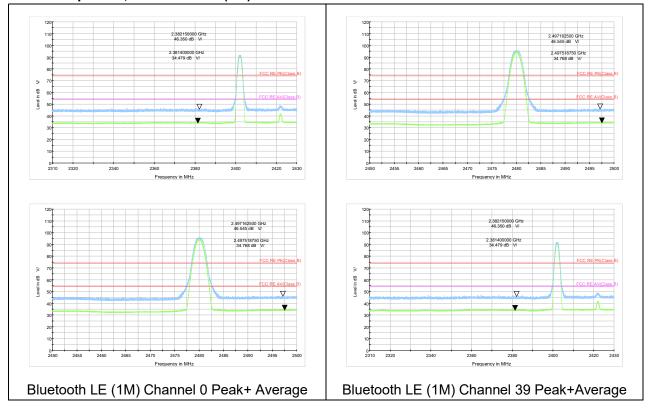
Frequency	Uncertainty		
9KHz-30MHz	3.55 dB		
30MHz-200MHz	4.17 dB		
200MHz-1GHz	4.84 dB		
1-18GHz	4.35 dB		
18-26.5GHz	5.90 dB		
26.5GHz~40GHz	5.92 dB		

Test Results:

A symbol (dB V/) in the test plot below means (dBµV/m)



After the pretest, Bluetooth LE (1M) was selected as the worst Mode for Bluetooth LE.





Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

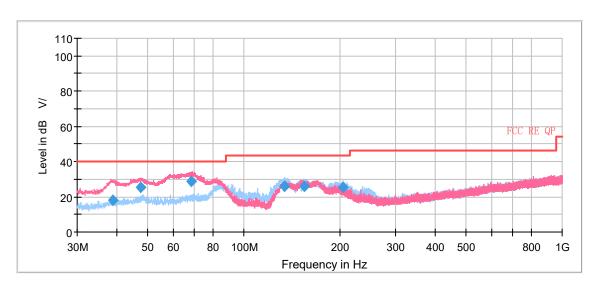
The following graphs display the maximum values of horizontal and vertical by software. For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

Continuous TX mode:

Wi-Fi 2.4G

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11n (HT40) CH3 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

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



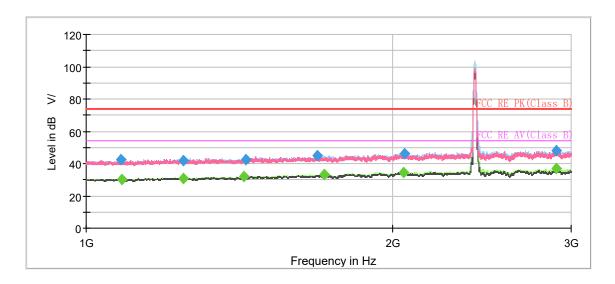
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
38.845000	29.77	40.00	10.23	100.0	V	95.0	18.9
47.542667	30.65	40.00	9.35	100.0	V	28.0	20.4
68.649333	34.69	40.00	5.31	100.0	V	1.0	16.6
133.973667	30.91	43.50	12.59	225.0	Н	119.0	14.9
155.435333	29.89	43.50	13.61	184.0	Н	120.0	14.9
205.308000	29.32	43.50	14.18	125.0	Н	96.0	17.7

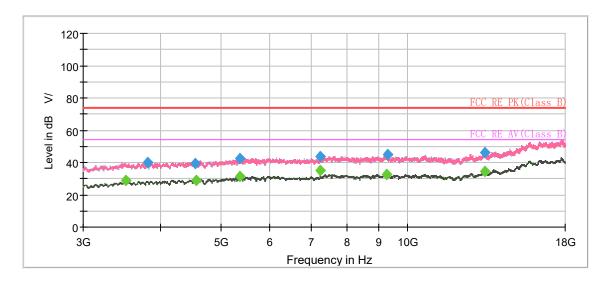
Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

2. Margin = Limit - Quasi-Peak

802.11b CH1



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

47.76



2903.500000

Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1082.250000 42.41 74.00 31.59 500.0 200.0 Н 226.0 -8.2 1083.500000 30.07 54.00 23.93 500.0 200.0 Η 203.0 -8.2 74.00 32.16 -7.2 1245.000000 41.84 500.0 100.0 ٧ 278.0 1247.500000 54.00 23.35 500.0 200.0 180.0 -7.2 30.65 Н 1430.750000 31.84 54.00 22.16 500.0 100.0 36.0 -6.0 Η ---1435.500000 42.42 74.00 31.58 500.0 200.0 Η 266.0 -6.0 500.0 100.0 1686.750000 44.95 ---74.00 29.05 Η 0.0 -4.6 1715.250000 54.00 20.78 500.0 200.0 330.0 -4.4 33.22 Η 2050.250000 34.61 54.00 19.39 500.0 100.0 Η 54.0 -2.6 Н 2056.250000 74.00 27.57 500.0 100.0 77.0 -2.6 46.43 ---17.17 2900.250000 36.83 54.00 500.0 200.0 Η 321.0 0.9

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

26.24

500.0

200.0

Н

212.0

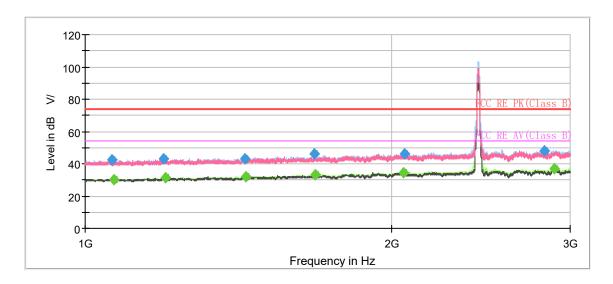
0.9

74.00

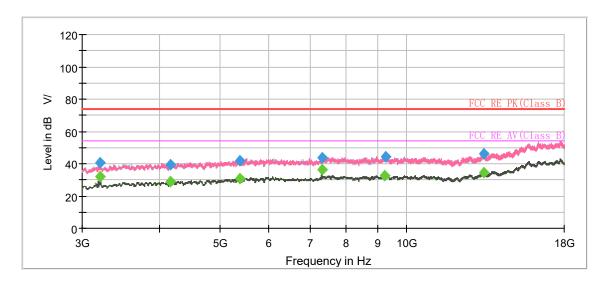
Report No.: R2212A1269-R2

^{2.} Margin = Limit -MAX Peak/ Average

802.11b CH6



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz



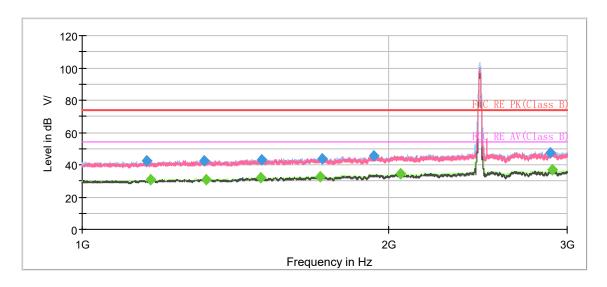
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1063.500000 42.37 74.00 31.63 500.0 200.0 Н 354.0 -8.3 1068.000000 30.34 54.00 23.66 500.0 100.0 Η 75.0 -8.3 ---74.00 31.13 1194.500000 42.87 500.0 100.0 ٧ 340.0 -7.5 ---1200.250000 54.00 22.36 500.0 200.0 V 0.0 -7.4 31.64 1435.250000 74.00 30.99 500.0 200.0 359.0 -6.0 43.01 ---Н 1440.250000 32.12 54.00 21.88 500.0 200.0 V 233.0 -5.9 27.64 500.0 100.0 152.0 1679.750000 46.36 74.00 V -4.6 1685.500000 54.00 20.75 500.0 100.0 70.0 -4.6 33.25 Η 2055.000000 34.51 54.00 19.49 500.0 200.0 Η 354.0 -2.6 ---2059.500000 74.00 27.80 500.0 100.0 Н 66.0 -2.6 46.20 ---74.00 26.14 2829.750000 47.86 500.0 200.0 Н 354.0 0.6 2897.250000 36.91 54.00 17.09 500.0 100.0 Н 21.0 8.0

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

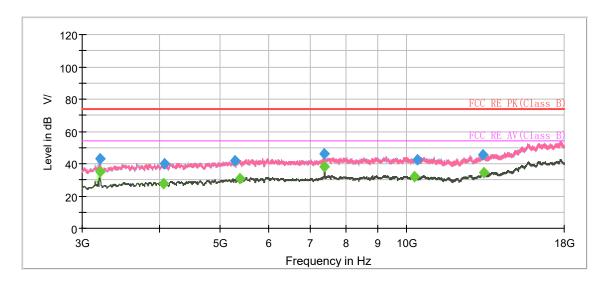
Report No.: R2212A1269-R2

^{2.} Margin = Limit –MAX Peak/ Average

802.11b CH11



Note: The signal beyond the limit is carrier.
Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz



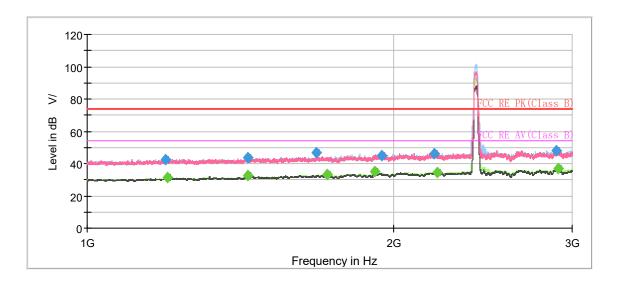
Frequency MaxPeak Limit Meas. Time Corr. Average Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1157.250000 42.32 74.00 31.68 500.0 100.0 24.0 -7.7 Η 1167.000000 30.74 54.00 23.26 500.0 200.0 Η 232.0 -7.7 ---74.00 31.28 1319.750000 42.72 500.0 100.0 Н 199.0 -6.7 ---1324.500000 54.00 22.96 500.0 200.0 273.0 31.04 Н -6.7 1499.500000 31.71 54.00 22.29 500.0 200.0 319.0 -5.5 Н ---1502.750000 74.00 30.88 500.0 100.0 V 193.0 -5.5 43.12 500.0 200.0 1714.750000 32.75 54.00 21.25 Η 227.0 -4.4 1721.250000 43.93 74.00 30.07 500.0 100.0 1.0 -4.4 Η 74.00 1937.000000 45.40 28.60 500.0 100.0 V 313.0 -3.2 2055.750000 54.00 19.47 500.0 200.0 241.0 -2.6 ---34.53 Н 74.00 26.34 2885.000000 47.66 500.0 200.0 Н 190.0 8.0 2902.000000 36.70 54.00 17.30 500.0 100.0 Н 69.0 0.9

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

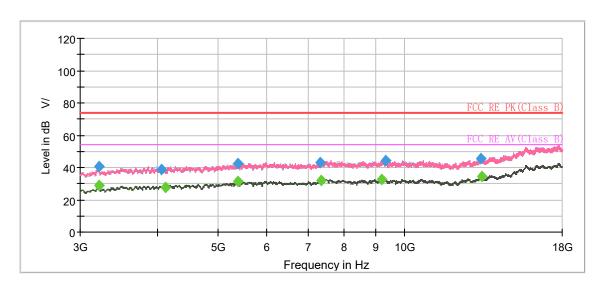
Report No.: R2212A1269-R2

^{2.} Margin = Limit -MAX Peak/ Average

802.11g CH1



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz



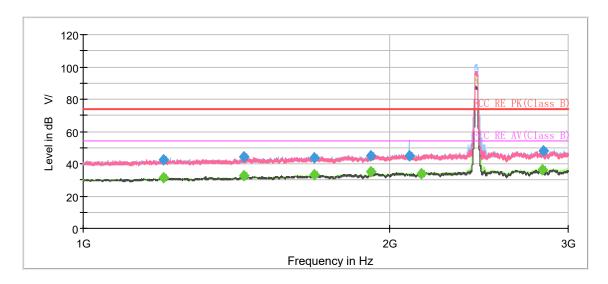
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1195.000000 42.53 74.00 31.47 500.0 100.0 V 349.0 -7.5 V 1200.000000 31.11 54.00 22.89 500.0 200.0 328.0 -7.4 ---74.00 1439.750000 43.93 30.07 500.0 200.0 ٧ 94.0 -5.9 ---1440.000000 54.00 21.24 500.0 200.0 V 90.0 -5.9 32.76 1680.500000 74.00 27.22 500.0 200.0 V 67.0 -4.6 46.78 ---1723.250000 33.00 54.00 21.00 500.0 100.0 49.0 -4.4 Η 500.0 200.0 72.0 1919.000000 ---34.88 54.00 19.12 Η -3.4 1946.750000 44.76 74.00 29.24 500.0 100.0 4.0 -3.2 Η 74.00 2195.750000 46.06 27.94 500.0 100.0 Η 150.0 -2.0 ---2209.750000 54.00 19.70 500.0 100.0 Н 72.0 -2.0 ---34.30 74.00 2891.750000 48.10 25.90 500.0 200.0 Н 144.0 8.0 2905.750000 36.70 54.00 17.30 500.0 100.0 Н 150.0 0.9

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

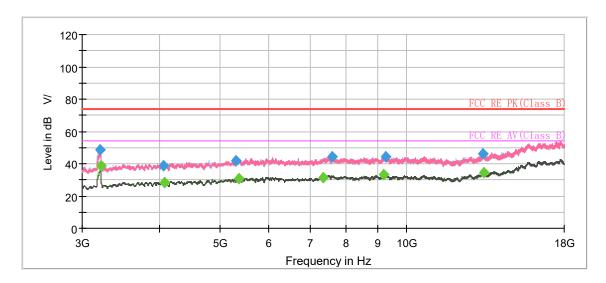
Report No.: R2212A1269-R2

^{2.} Margin = Limit -MAX Peak/ Average

802.11g CH6



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz



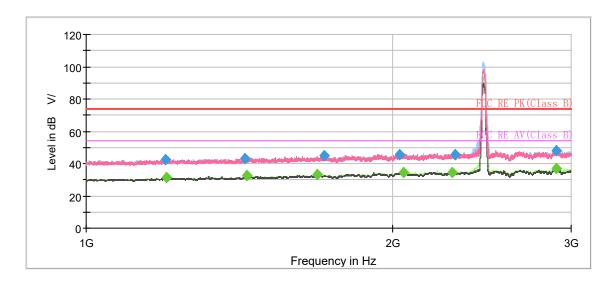
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1200.250000 31.19 54.00 22.81 500.0 200.0 V 341.0 -7.4 V 1200.500000 42.54 74.00 31.46 500.0 200.0 12.0 -7.4 ---74.00 1440.000000 44.08 29.92 500.0 200.0 ٧ 86.0 -5.9 ---1440.250000 54.00 21.20 500.0 200.0 V 146.0 -5.9 32.80 1688.500000 74.00 30.52 500.0 200.0 V 181.0 -4.6 43.48 ---1688.500000 33.28 54.00 20.72 500.0 100.0 -4.6 Η 6.0 29.14 500.0 100.0 V 1919.000000 44.86 74.00 159.0 -3.4 1920.250000 34.81 54.00 19.19 500.0 100.0 V 226.0 -3.3 74.00 2092.500000 44.62 29.38 500.0 100.0 V 359.0 -2.5 2153.000000 33.92 54.00 20.08 500.0 100.0 20.0 -2.2 Η 17.98 2831.750000 36.02 54.00 500.0 100.0 Н 38.0 0.6 2834.500000 47.83 74.00 26.17 500.0 100.0 Н 38.0 0.6

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

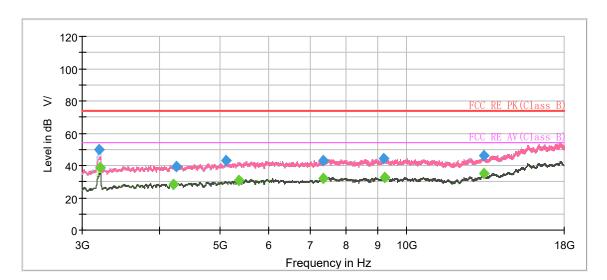
2. Margin = Limit -MAX Peak/ Average

Report No.: R2212A1269-R2

802.11g CH11



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz



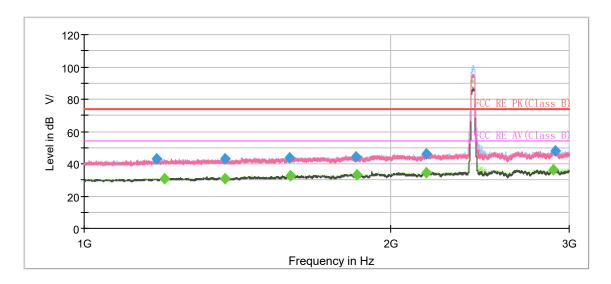
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1196.250000 42.22 74.00 31.78 500.0 100.0 V 125.0 -7.5 V 1200.000000 31.22 54.00 22.78 500.0 200.0 78.0 -7.4 ---74.00 1432.000000 43.33 30.67 500.0 100.0 ٧ 203.0 -6.0 ---1440.000000 54.00 21.57 500.0 200.0 V 83.0 -5.9 32.43 1688.750000 33.39 54.00 20.61 500.0 100.0 77.0 -4.6 Н ---1716.000000 44.76 74.00 29.24 500.0 200.0 V 173.0 -4.4 74.00 500.0 100.0 72.0 2032.750000 45.84 ---28.16 Η -2.7 2054.250000 34.56 54.00 19.44 500.0 100.0 0.0 -2.6 Η 2291.500000 34.45 54.00 19.55 500.0 100.0 Η 4.0 -1.7 ---2308.500000 74.00 28.55 500.0 200.0 Н 84.0 45.45 ----1.6 74.00 25.94 2902.250000 48.06 500.0 200.0 Н 181.0 0.9 2902.250000 54.00 17.19 500.0 100.0 Н 18.0 0.9 36.81

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

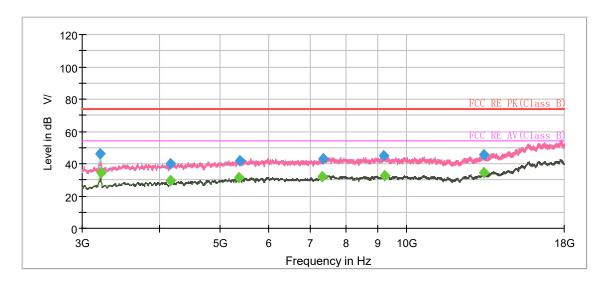
Report No.: R2212A1269-R2

^{2.} Margin = Limit -MAX Peak/ Average

802.11n (HT20) CH1



Note: The signal beyond the limit is carrier. Radiates Emission from 1GHz to 3GHz



Radiates Emission from 3GHz to 18GHz

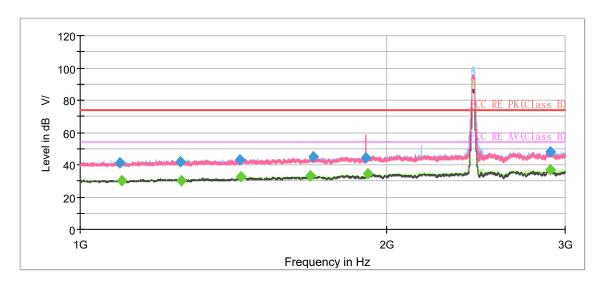


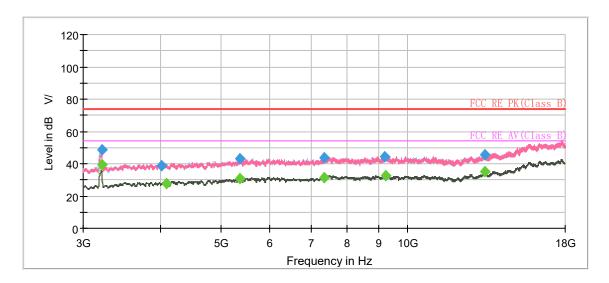
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1178.750000 42.79 74.00 31.21 500.0 100.0 Н 333.0 -7.6 V 1200.500000 31.06 54.00 22.94 500.0 200.0 347.0 -7.4 ---74.00 1376.250000 42.99 31.01 500.0 100.0 Η 185.0 -6.4 ---1377.000000 54.00 23.01 500.0 100.0 30.99 Н 0.0 -6.4 1591.250000 74.00 30.52 500.0 100.0 V 13.0 -5.1 43.48 ---1596.750000 32.42 54.00 21.58 500.0 100.0 306.0 -5.0 Η 500.0 100.0 1848.750000 44.09 74.00 29.91 Η 198.0 -3.7 1856.250000 54.00 20.87 500.0 100.0 229.0 -3.7 33.13 Η 2171.000000 34.40 54.00 19.60 500.0 100.0 Η 140.0 -2.1 2171.250000 74.00 27.67 500.0 100.0 V 162.0 -2.1 46.33 ---17.71 2897.250000 36.29 54.00 500.0 100.0 Η 338.0 8.0 2907.750000 47.90 74.00 26.10 500.0 100.0 Н 343.0 0.9

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

2. Margin = Limit -MAX Peak/ Average

802.11n (HT20) CH6





Radiates Emission from 3GHz to 18GHz

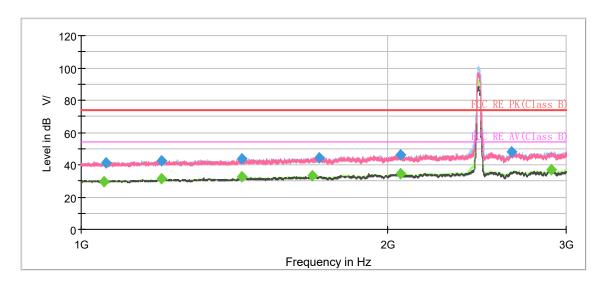


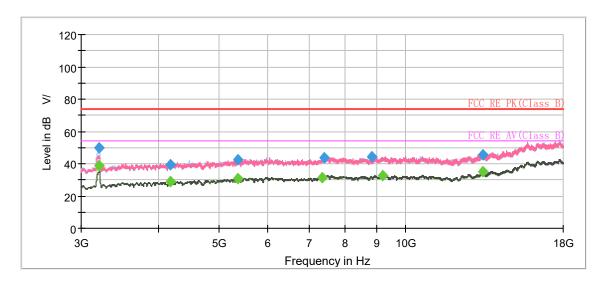
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1094.750000 40.99 74.00 33.01 500.0 100.0 ٧ 44.0 -8.1 1099.750000 30.37 54.00 23.63 500.0 100.0 Η 289.0 -8.1 74.00 77.0 -7.1 1254.750000 41.57 32.43 500.0 200.0 Η ---1256.250000 54.00 23.59 500.0 100.0 270.0 -7.1 30.41 Н 1437.250000 74.00 30.77 500.0 100.0 211.0 -6.0 43.23 ---Η 1440.000000 32.46 54.00 21.54 500.0 200.0 ٧ 90.0 -5.9 500.0 100.0 1683.500000 ---33.28 54.00 20.72 Η 321.0 -4.6 1693.750000 44.89 74.00 29.11 500.0 100.0 248.0 -4.6 Η 74.00 1911.750000 44.39 29.61 500.0 100.0 Η 279.0 -3.4 ---1920.000000 54.00 19.43 500.0 100.0 V 173.0 -3.3 34.57 17.32 2900.500000 36.68 54.00 500.0 100.0 Н 257.0 0.9 2901.000000 48.00 74.00 26.00 500.0 100.0 Н 298.0 0.9

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

^{2.} Margin = Limit –MAX Peak/ Average

802.11n (HT20) CH11





Radiates Emission from 3GHz to 18GHz

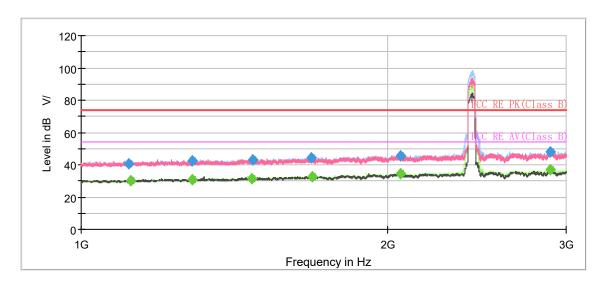


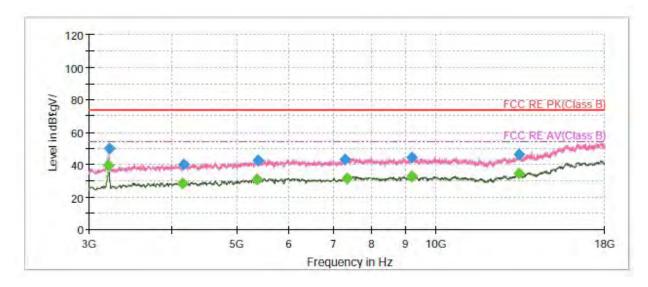
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1053.000000 29.81 54.00 24.19 500.0 100.0 Н 0.0 -8.4 V 1056.750000 41.48 74.00 32.52 500.0 100.0 9.0 -8.4 22.70 1200.000000 31.30 54.00 500.0 200.0 ٧ 96.0 -7.4 ---1200.250000 74.00 31.48 500.0 200.0 V 265.0 -7.4 42.52 1440.000000 54.00 21.36 500.0 200.0 V 242.0 -5.9 ---32.64 1440.500000 74.00 30.32 500.0 200.0 ٧ 96.0 -5.9 43.68 500.0 100.0 1689.250000 33.02 54.00 20.98 Η 317.0 -4.6 1714.000000 44.47 74.00 29.53 500.0 100.0 254.0 -4.4 Η 74.00 27.78 2060.250000 46.22 500.0 100.0 Η 262.0 -2.6 Н 2063.750000 54.00 19.62 500.0 100.0 240.0 -2.6 ---34.38 74.00 25.87 2653.750000 48.13 500.0 200.0 Н 56.0 -0.1 2898.750000 36.68 54.00 17.32 500.0 100.0 Н 340.0 8.0

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

^{2.} Margin = Limit -MAX Peak/ Average

802.11n (HT40) CH3





Radiates Emission from 3GHz to 18GHz



2896.250000

Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1114.500000 40.86 74.00 33.14 500.0 200.0 189.0 -8.0 Η 1118.250000 29.90 54.00 24.10 500.0 100.0 Η 190.0 -8.0 74.00 -7.0 1286.000000 42.50 31.50 500.0 100.0 Н 331.0 ---1286.250000 54.00 23.44 500.0 100.0 177.0 -7.0 30.56 Н 1473.000000 31.66 54.00 22.34 500.0 100.0 331.0 -5.7 Н ---1475.500000 42.92 74.00 31.08 500.0 100.0 350.0 -5.7 Η 500.0 100.0 1685.000000 44.42 ---74.00 29.58 Η 327.0 -4.6 1689.000000 32.78 54.00 21.22 500.0 100.0 309.0 -4.6 Η 2060.250000 34.54 54.00 19.46 500.0 100.0 Η 260.0 -2.6 ---2061.750000 74.00 28.25 500.0 100.0 ٧ -2.6 45.75 ---6.0 74.00 26.07 2893.250000 47.93 500.0 100.0 Н 0.0 8.0

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

17.02

500.0

100.0

Н

282.0

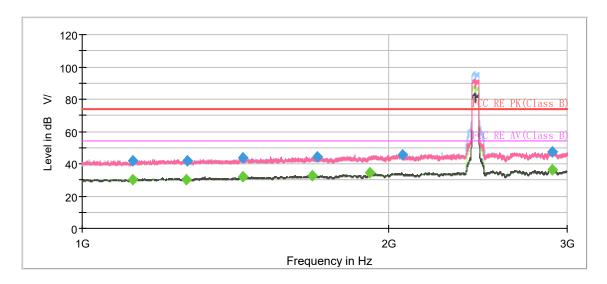
8.0

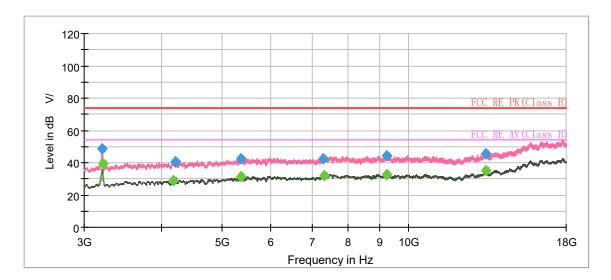
54.00

36.98

^{2.} Margin = Limit -MAX Peak/ Average

802.11n (HT40) CH6





Radiates Emission from 3GHz to 18GHz

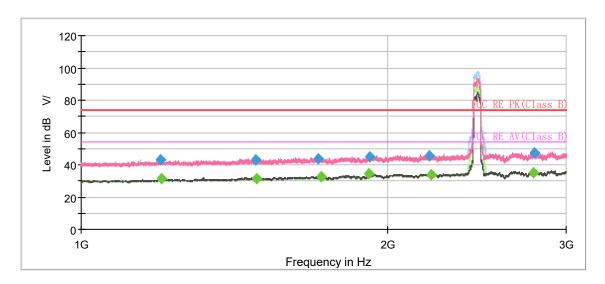


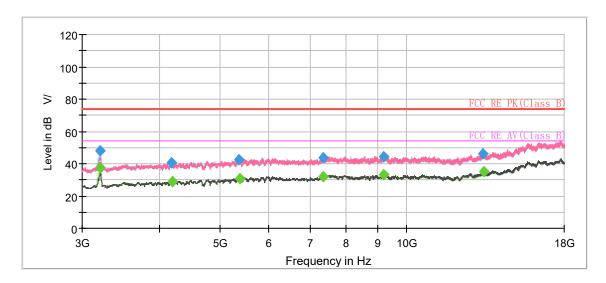
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1121.500000 30.16 54.00 23.84 500.0 200.0 Н 26.0 -8.0 1122.250000 41.60 74.00 32.40 500.0 200.0 Η 13.0 -8.0 -7.1 1266.250000 30.35 54.00 23.65 500.0 100.0 Н 260.0 ---1270.250000 41.77 74.00 32.23 500.0 200.0 V 179.0 -7.1 1439.500000 74.00 30.49 500.0 200.0 V 143.0 -5.9 43.51 ---1440.000000 32.18 54.00 21.82 500.0 200.0 ٧ 0.88 -5.9 500.0 200.0 V 277.0 1684.750000 ---32.61 54.00 21.39 -4.6 1702.250000 44.54 74.00 29.46 500.0 100.0 V 335.0 -4.5 54.00 1920.500000 34.61 19.39 500.0 100.0 V 162.0 -3.3 2065.750000 45.55 74.00 28.45 500.0 100.0 251.0 -2.6 Н 74.00 2897.750000 47.39 26.61 500.0 100.0 Н 192.0 8.0 2898.500000 36.15 54.00 17.85 500.0 100.0 V 158.0 8.0

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

^{2.} Margin = Limit -MAX Peak/ Average

802.11n (HT40) CH9





Radiates Emission from 3GHz to 18GHz



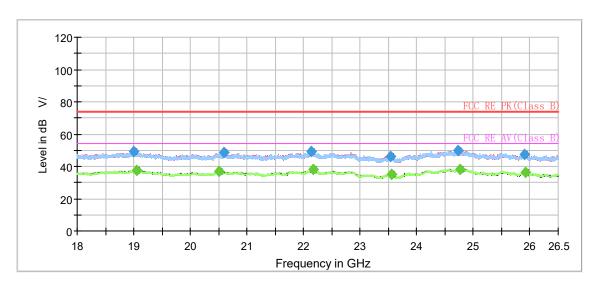
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1196.250000 42.90 74.00 31.10 500.0 100.0 V 149.0 -7.5 V 1200.500000 31.09 54.00 22.91 500.0 200.0 0.08 -7.4 ---74.00 1484.000000 43.05 30.95 500.0 100.0 ٧ 0.0 -5.6 ---1488.500000 54.00 22.82 500.0 200.0 72.0 -5.6 31.18 Н 1712.500000 74.00 30.61 500.0 100.0 V 123.0 -4.5 43.39 ---1721.500000 32.75 54.00 21.25 500.0 100.0 276.0 -4.4 Η 500.0 100.0 V 172.0 1920.000000 ---34.61 54.00 19.39 -3.3 1924.250000 45.02 74.00 28.98 500.0 200.0 V 85.0 -3.3 74.00 2200.000000 45.40 28.60 500.0 100.0 V 229.0 -2.0 ---2208.250000 54.00 20.27 500.0 200.0 87.0 -2.0 33.73 Η 2788.500000 34.91 54.00 19.09 500.0 100.0 Н 56.0 0.4 2789.500000 47.34 74.00 26.66 500.0 100.0 Н 304.0 0.4

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

^{2.} Margin = Limit –MAX Peak/ Average



During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, 802.11n (HT40) CH3 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Radiales Effission from 100HZ to 20.30HZ											
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)		
19007.250000	49.36		74.00	24.64	500.0	100.0	V	103.0	-6.5		
19050.812500		37.51	54.00	16.49	500.0	100.0	V	221.0	-6.4		
20499.000000		36.77	54.00	17.23	500.0	100.0	V	108.0	-6.2		
20590.375000	48.49		74.00	25.51	500.0	200.0	V	314.0	-6.2		
22139.500000	48.97		74.00	25.03	500.0	200.0	Н	56.0	-4.5		
22162.875000		37.90	54.00	16.10	500.0	100.0	V	181.0	-4.5		
23535.625000	46.06		74.00	27.94	500.0	200.0	Н	148.0	-5.8		
23548.375000		34.84	54.00	19.16	500.0	100.0	Н	100.0	-5.8		
24736.250000	49.72		74.00	24.28	500.0	100.0	V	236.0	-1.4		
24769.187500		38.36	54.00	15.64	500.0	200.0	Н	167.0	-1.5		
25897.562500	47.33		74.00	26.67	500.0	100.0	V	138.0	-2.9		
25918.812500		36.09	54.00	17.91	500.0	200.0	Н	239.0	-3.0		

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

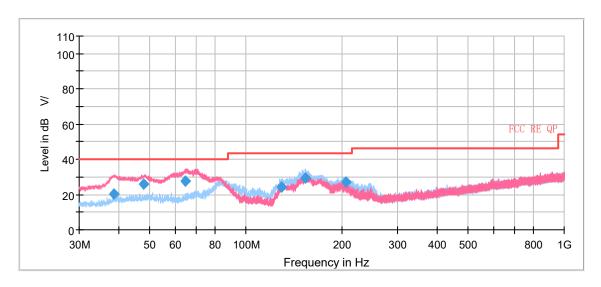
2. Margin = Limit –MAX Peak/ Average



Report No.: R2212A1269-R2

Bluetooth LE

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, Bluetooth LE-Channel 0 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



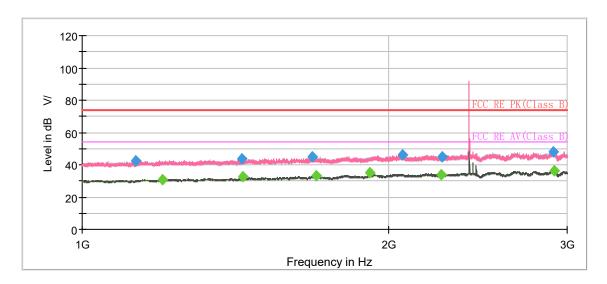
Radiates Emission from 30MHz to 1GHz

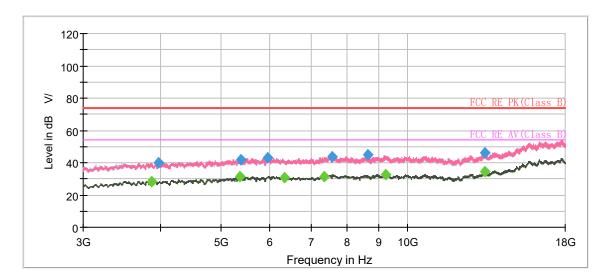
Frequency (MHz)	Quasi-Peak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
38.610000	20.15	40.00	19.85	100.0	V	349.0	19.0
47.843667	26.09	40.00	13.91	100.0	V	15.0	20.5
64.714000	27.81	40.00	12.19	100.0	V	0.0	18.0
129.952667	24.23	43.50	19.27	175.0	Н	307.0	15.3
154.115000	29.16	43.50	14.34	185.0	Н	117.0	14.8
206.045667	27.14	43.50	16.36	125.0	Н	94.0	17.7

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

2. Margin = Limit - Quasi-Peak

Bluetooth LE-Channel 0





Radiates Emission from 3GHz to 18GHz

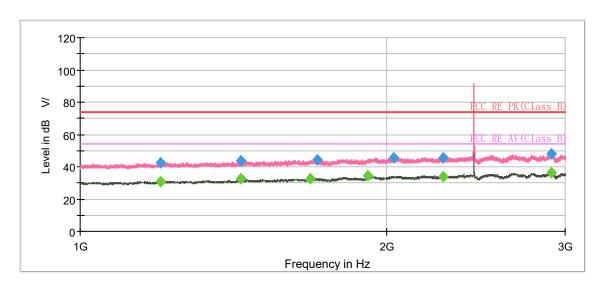


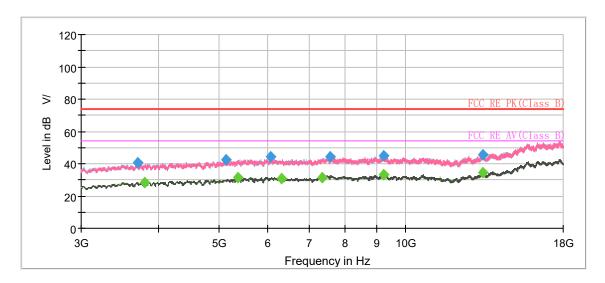
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1129.750000 42.47 74.00 31.53 500.0 100.0 Н 0.0 -7.9 V 1199.750000 30.90 54.00 23.10 500.0 200.0 14.0 -7.4 ---74.00 95.0 1434.500000 43.87 30.13 500.0 200.0 Н -6.0 ---1440.000000 32.73 54.00 21.27 500.0 200.0 V 84.0 -5.9 1684.500000 44.87 74.00 29.13 500.0 200.0 31.0 -4.6 ---Н 1699.500000 33.06 54.00 20.94 500.0 200.0 265.0 -4.5 Η 500.0 100.0 V 1920.500000 ---34.79 54.00 19.21 260.0 -3.3 2065.750000 74.00 28.09 500.0 100.0 V 156.0 -2.6 45.91 54.00 2257.250000 33.71 20.29 500.0 200.0 V 187.0 -1.9 2259.000000 74.00 28.88 500.0 200.0 ٧ 103.0 -1.8 45.12 74.00 26.22 2904.000000 47.78 500.0 200.0 Н 86.0 0.9 2910.750000 36.32 54.00 17.68 500.0 100.0 Н 27.0 0.9

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

^{2.} Margin = Limit -MAX Peak/ Average

Bluetooth LE-Channel 19





Radiates Emission from 3GHz to 18GHz

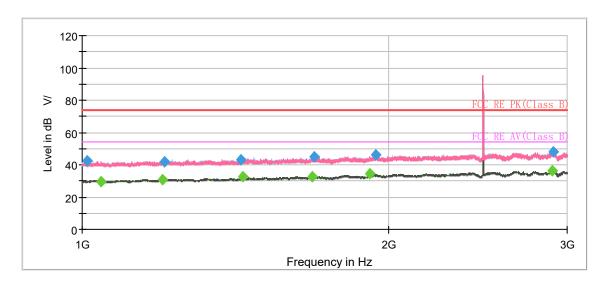
Report No.: R2212A1269-R2

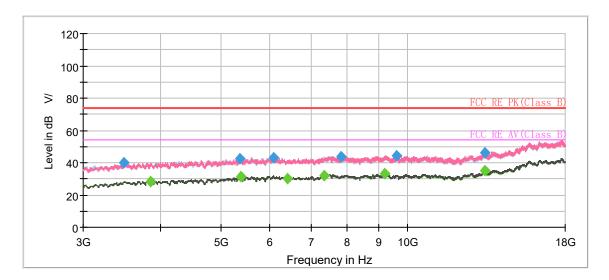
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1199.750000	42.25		74.00	31.75	500.0	200.0	V	44.0	-7.4
1200.250000		30.96	54.00	23.04	500.0	200.0	Н	0.0	-7.4
1440.000000		32.53	54.00	21.47	500.0	200.0	V	85.0	-5.9
1440.000000	43.47		74.00	30.53	500.0	200.0	Н	320.0	-5.9
1684.250000		32.84	54.00	21.16	500.0	200.0	V	109.0	-4.6
1711.750000	44.29		74.00	29.71	500.0	100.0	Н	140.0	-4.5
1920.250000		34.66	54.00	19.34	500.0	100.0	V	261.0	-3.3
2032.750000	45.64		74.00	28.36	500.0	200.0	Н	192.0	-2.7
2276.750000		33.73	54.00	20.27	500.0	200.0	Н	0.0	-1.7
2278.000000	45.34		74.00	28.66	500.0	100.0	V	351.0	-1.7
2908.500000		36.28	54.00	17.72	500.0	200.0	V	127.0	0.9
2910.000000	47.99		74.00	26.01	500.0	100.0	Н	169.0	0.9

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

2. Margin = Limit –MAX Peak/ Average

Bluetooth LE-Channel 39





Radiates Emission from 3GHz to 18GHz



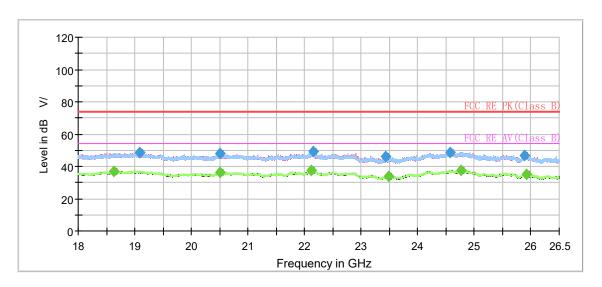
Frequency MaxPeak Meas. Time Corr. Average Limit Margin Height Azimuth Pol (MHz) (dBµV/m) (dBµV/m) (dBµV/m) (dB) (ms) (cm) (deg) (dB/m) 1012.000000 42.24 74.00 31.76 500.0 200.0 V 3.0 -8.7 1043.250000 29.73 54.00 24.27 500.0 100.0 Η 0.08 -8.5 ---1199.750000 30.89 54.00 23.11 500.0 100.0 ٧ 0.0 -7.4 ---1204.750000 41.74 74.00 32.26 500.0 100.0 315.0 -7.4 Н 1433.000000 74.00 30.79 500.0 200.0 V 129.0 -6.0 43.21 ---1440.250000 32.34 54.00 21.66 500.0 200.0 V 0.88 -5.9 32.72 500.0 200.0 1684.500000 ---54.00 21.28 Η 286.0 -4.6 1692.000000 44.68 74.00 29.32 500.0 100.0 V 27.0 -4.6 54.00 1920.250000 34.52 19.48 500.0 100.0 V 272.0 -3.3 1943.750000 46.09 74.00 27.91 500.0 200.0 254.0 -3.2 ---Η 17.79 2899.250000 36.21 54.00 500.0 100.0 Н 191.0 8.0 2906.500000 47.96 74.00 26.04 500.0 200.0 V 133.0 0.9

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

^{2.} Margin = Limit -MAX Peak/ Average



During the test, the Radiates Emission from 18GHz to 26.5GHz was performed in all modes with all channels, Bluetooth LE-Channel 0 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
18625.812500		36.94	54.00	17.06	500.0	200.0	V	241.0	-7.0
19084.812500	48.82		74.00	25.18	500.0	200.0	Н	2.0	-6.4
20508.562500		36.29	54.00	17.71	500.0	200.0	V	140.0	-6.2
20514.937500	47.98		74.00	26.02	500.0	200.0	V	338.0	-6.2
22126.750000		37.27	54.00	16.73	500.0	200.0	Н	104.0	-4.5
22158.625000	48.99		74.00	25.01	500.0	200.0	Н	171.0	-4.5
23440.000000	46.44		74.00	27.56	500.0	100.0	V	173.0	-5.9
23494.187500		33.84	54.00	20.16	500.0	100.0	V	258.0	-5.9
24580.062500	48.79		74.00	25.21	500.0	200.0	V	352.0	-1.7
24767.062500		37.42	54.00	16.58	500.0	200.0	Н	128.0	-1.5
25888.000000	46.89		74.00	27.11	500.0	200.0	V	347.0	-2.8
25922.000000		35.26	54.00	18.74	500.0	200.0	Н	0.0	-3.0

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

2. Margin = Limit –MAX Peak/ Average



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5.7. Conducted Emission

Ambient Condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

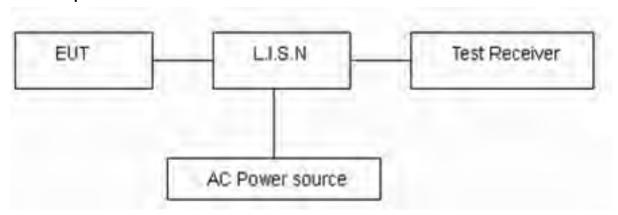
Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz.

The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

Limits

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

Measurement Uncertainty

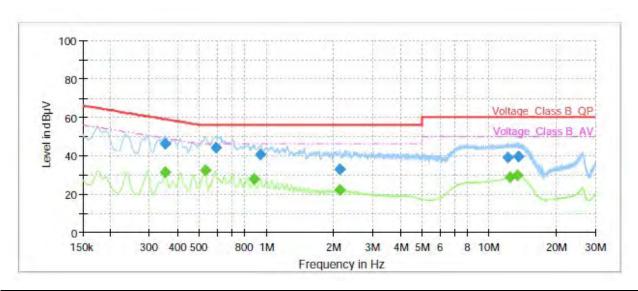
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U = 2.69 dB.



Test Results:

Following plots, Blue trace uses the peak detection and Green trace uses the average detection. **Wi-Fi 2.4G**

During the test, the Conducted Emission was performed in all modes with all channels, 802.11n (HT40) CH3 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

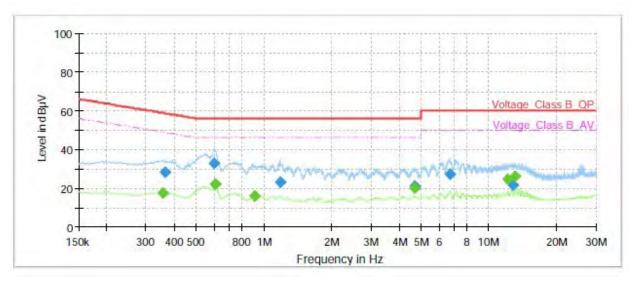


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.35	46.06		58.96	12.90	1000.0	9.000	L1	ON	20.8
0.35		31.47	48.90	17.43	1000.0	9.000	L1	ON	20.8
0.53		32.45	46.00	13.55	1000.0	9.000	L1	ON	20.6
0.60	44.25		56.00	11.75	1000.0	9.000	L1	ON	20.5
0.88		27.63	46.00	18.37	1000.0	9.000	L1	ON	20.1
0.94	40.33		56.00	15.67	1000.0	9.000	L1	ON	20.0
2.12		21.97	46.00	24.03	1000.0	9.000	L1	ON	19.4
2.13	32.71		56.00	23.29	1000.0	9.000	L1	ON	19.4
12.12	39.16		60.00	20.84	1000.0	9.000	L1	ON	19.3
12.38		28.94	50.00	21.06	1000.0	9.000	L1	ON	19.3
13.38		29.52	50.00	20.48	1000.0	9.000	L1	ON	19.4
13.46	39.54		60.00	20.46	1000.0	9.000	L1	ON	19.4

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

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Frequency (MHz)	QuasiPeak (dΒμV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.36		17.66	48.80	31.14	1000.0	9.000	N	ON	20.9
0.36	28.34		58.69	30.35	1000.0	9.000	N	ON	20.9
0.60	32.92	-	56.00	23.08	1000.0	9.000	N	ON	20.5
0.60		22.31	46.00	23.69	1000.0	9.000	N	ON	20.5
0.91		15.83	46.00	30.17	1000.0	9.000	N	ON	20.1
1.18	22.96		56.00	33.04	1000.0	9.000	N	ON	19.9
4.67		19.82	46.00	26.18	1000.0	9.000	N	ON	19.2
4.67	20.92		56.00	35.08	1000.0	9.000	N	ON	19.2
6.71	27.37		60.00	32.63	1000.0	9.000	N	ON	19.3
12.12		24.68	50.00	25.32	1000.0	9.000	N	ON	19.4
12.73	21.50		60.00	38.50	1000.0	9.000	N	ON	19.4
13.15		26.11	50.00	23.89	1000.0	9.000	N	ON	19.4

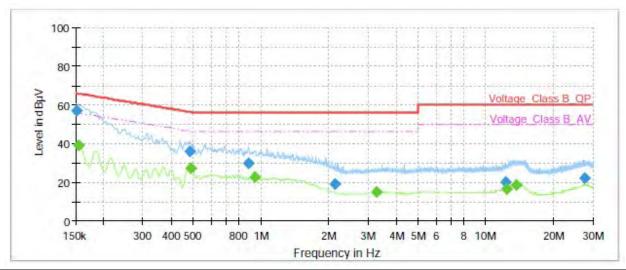
Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz



Bluetooth LE

During the test, the Conducted Emission was performed in all modes with all channels, Bluetooth LE-Channel 0 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

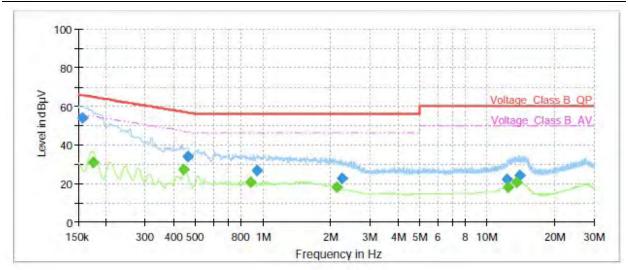


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	56.93		65.88	8.95	1000.0	9.000	L1	ON	20.9
0.15		38.82	55.75	16.93	1000.0	9.000	L1	ON	20.9
0.49	36.05		56.25	20.20	1000.0	9.000	L1	ON	20.6
0.49		27.26	46.17	18.91	1000.0	9.000	L1	ON	20.6
0.88	29.70		56.00	26.30	1000.0	9.000	L1	ON	20.1
0.94		22.57	46.00	23.43	1000.0	9.000	L1	ON	20.0
2.13	19.19		56.00	36.81	1000.0	9.000	L1	ON	19.4
3.28		14.73	46.00	31.27	1000.0	9.000	L1	ON	19.2
12.22	19.87		60.00	40.13	1000.0	9.000	L1	ON	19.3
12.40		16.42	50.00	33.58	1000.0	9.000	L1	ON	19.3
13.61		18.71	50.00	31.29	1000.0	9.000	L1	ON	19.4
27.39	21.84		60.00	38.16	1000.0	9.000	L1	ON	20.0

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz

Report No.: R2212A1269-R2



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16	53.84		65.63	11.79	1000.0	9.000	N	ON	20.9
0.17		30.53	54.73	24.20	1000.0	9.000	N	ON	21.1
0.44		27.25	46.97	19.72	1000.0	9.000	N	ON	20.8
0.46	33.79		56.64	22.85	1000.0	9.000	N	ON	20.7
0.88		20.40	46.00	25.60	1000.0	9.000	N	ON	20.1
0.94	26.77		56.00	29.23	1000.0	9.000	N	ON	20.0
2.14		17.83	46.00	28.17	1000.0	9.000	N	ON	19.4
2.25	22.58		56.00	33.42	1000.0	9.000	N	ON	19.4
12.20	21.99		60.00	38.01	1000.0	9.000	N	ON	19.4
12.40		17.98	50.00	32.02	1000.0	9.000	N	ON	19.4
13.55		20.76	50.00	29.24	1000.0	9.000	N	ON	19.5
13.91	24.18		60.00	35.82	1000.0	9.000	N	ON	19.5

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

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6. Main Test Instruments

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date						
Power sensor	R&S	NRP18S	101954	2022-05-14	2023-05-13						
Spectrum Analyzer	KEYSIGHT	N9020A	MY51330870	2022-05-14	2023-05-13						
	Radiated Emission										
EMI Test Receiver	R&S	ESR	102389	2022-05-25	2023-05-24						
Signal Analyzer	R&S	FSV40	101186	2022-05-14	2023-05-13						
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2020-04-02	2023-04-01						
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	1023	2020-05-05	2023-05-04						
Horn Antenna	R&S	HF907	102723	2020-08-11	2023-08-10						
Horn Antenna	ETS-Lindgren	3160-09	00102643	2021-10-10	2024-10-09						
Software	R&S	EMC32	9.26.0	1	/						
	Со	nducted Emissio	n								
EMI Test Receiver	R&S	ESR	101667	2022-05-25	2023-05-24						
LION	Dec	ENIV /04 C	400404	2018-12-15	2021-12-14						
LISN	R&S	ENV216	102191	2022-12-13	2024-12-09						
Software	R&S	EMC32	10.35.10	1	1						

******END OF REPORT ******



ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.