



802.11n(HT20), Channel No. 1



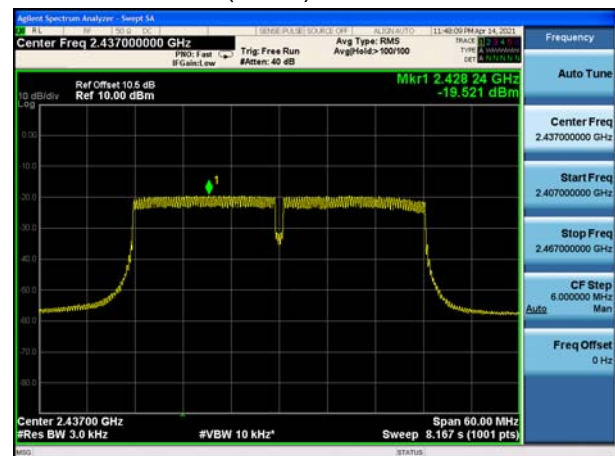
802.11n(HT40), Channel No. 3



802.11n(HT20), Channel No. 6



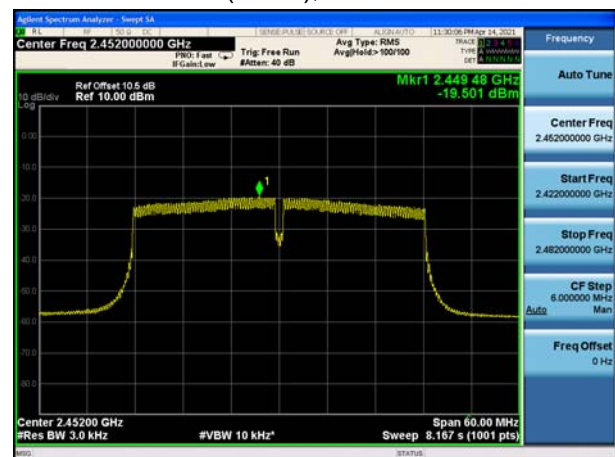
802.11n(HT40), Channel No. 6



802.11n(HT20), Channel No. 11



802.11n(HT40), Channel No. 9





802.11ax(HE20), Channel No. 1



802.11ax(HE40), Channel No. 3



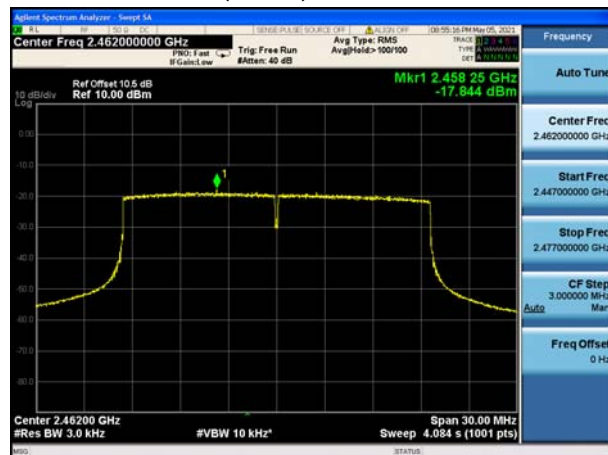
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802.11ax(HE40), Channel No. 6



802.11ax(HE20), Channel No. 11



802.11ax(HE40), Channel No. 9



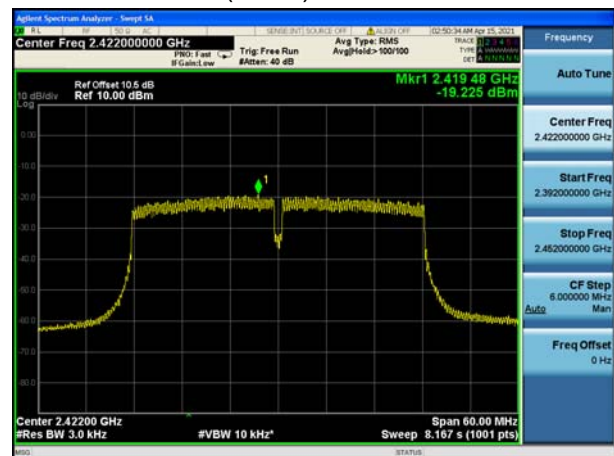


MIMO Antenna 1

802.11n(HT20), Channel No. 1



802.11n(HT40), Channel No. 3



802.11n(HT20), Channel No. 6



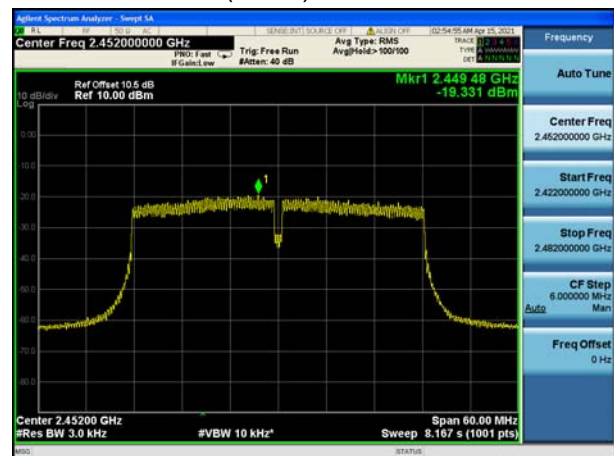
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802.11n(HT20), Channel No. 11



802.11n(HT40), Channel No. 9



802.11ax(HE20), Channel No. 1



802.11ax(HE40), Channel No. 3



802.11ax(HE20), Channel No. 6



802.11ax(HE40), Channel No. 6



802.11ax(HE20), Channel No. 11



802.11ax(HE40), Channel No. 9





MIMO Antenna 2

802.11n(HT20), Channel No. 1



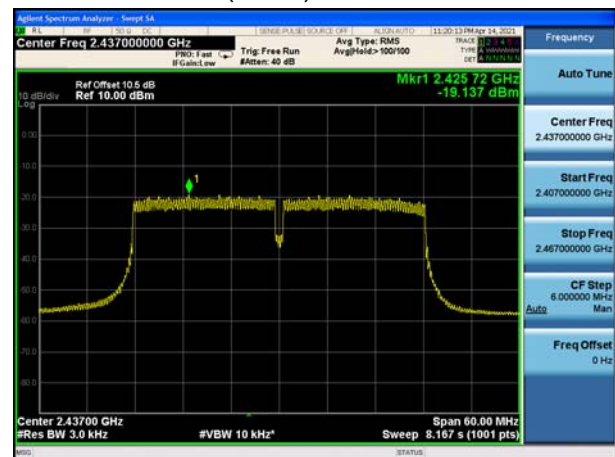
802.11n(HT40), Channel No. 3



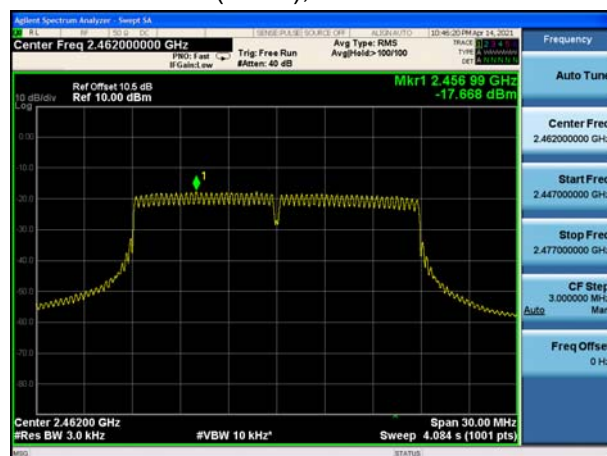
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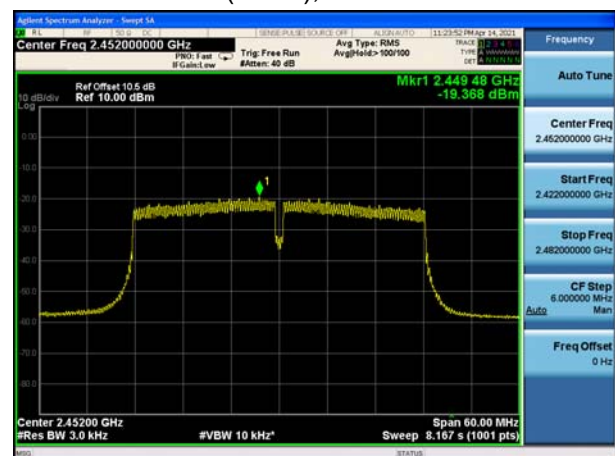
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802.11n(HT20), Channel No. 11



802.11n(HT40), Channel No. 9



802.11ax(HE20), Channel No. 1



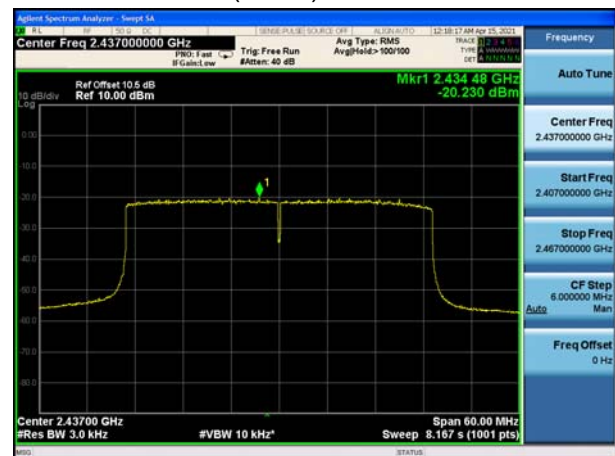
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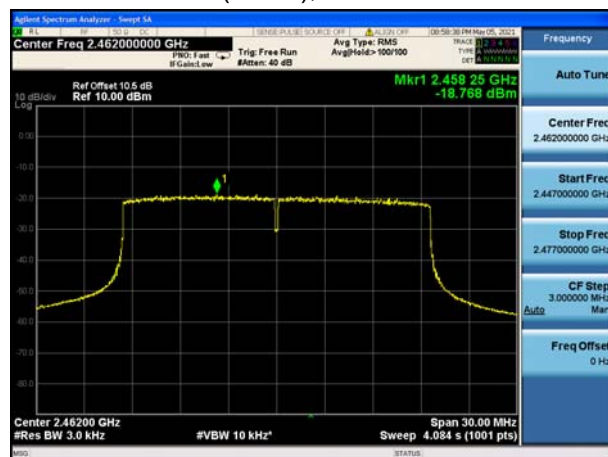
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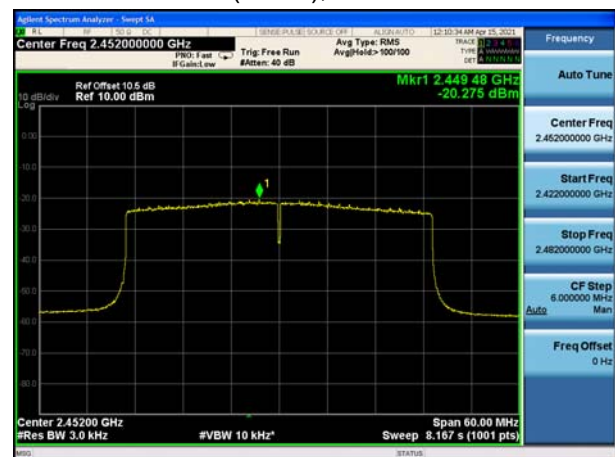
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802.11ax(HE20), Channel No. 11



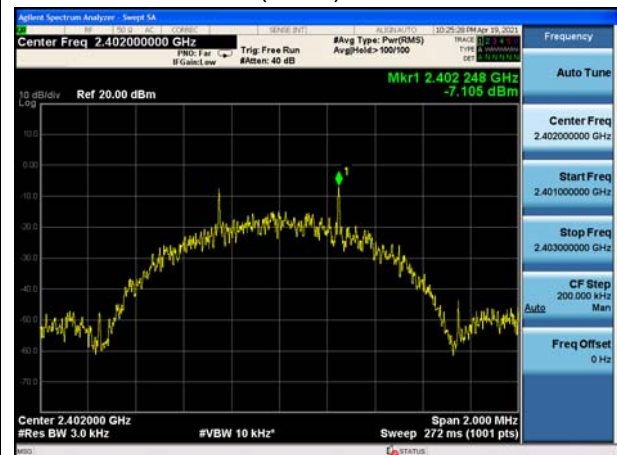
802.11ax(HE40), Channel No. 9



Bluetooth LE (125K), Channel No.: 0



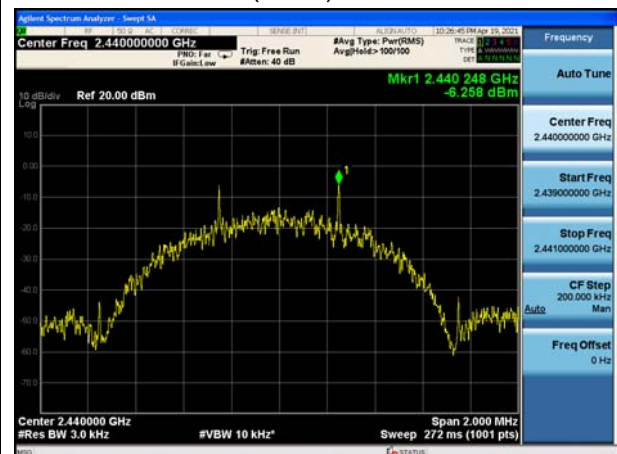
Bluetooth LE (500K), Channel No.: 0



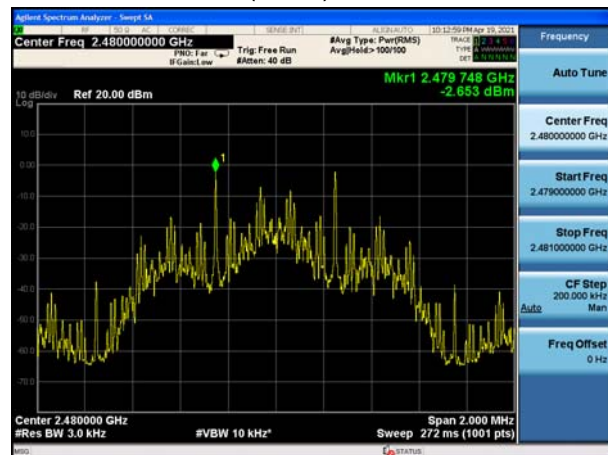
Bluetooth LE (125K), Channel No.: 19



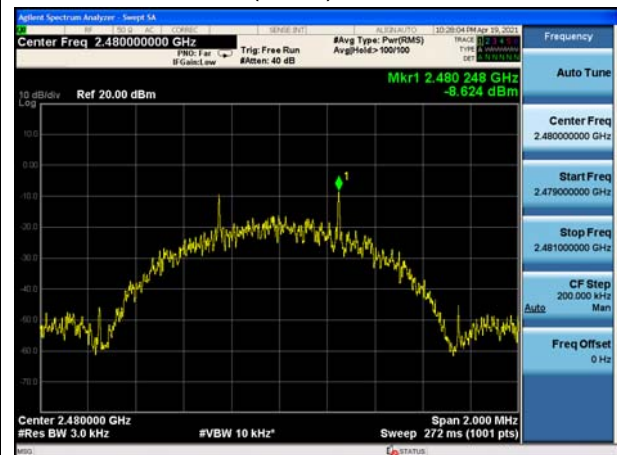
Bluetooth LE (500K), Channel No.: 19



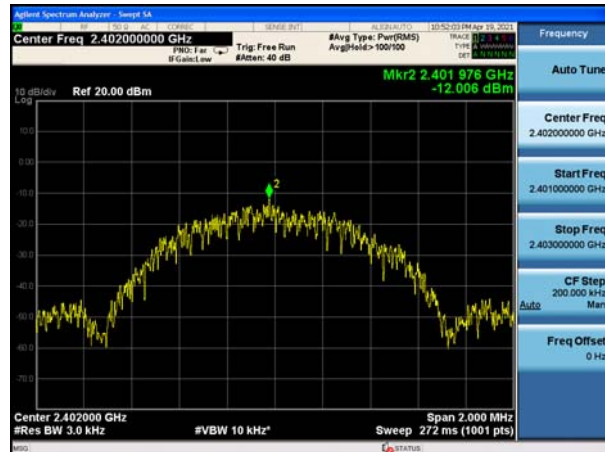
Bluetooth LE (125K), Channel No.: 39



Bluetooth LE (500K), Channel No.: 39



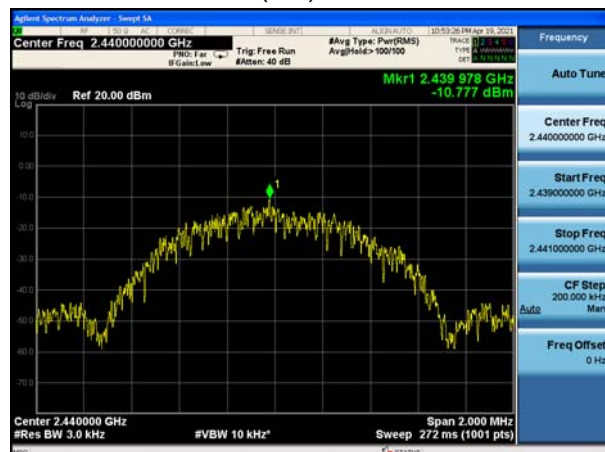
Bluetooth LE (1M), Channel No.: 0



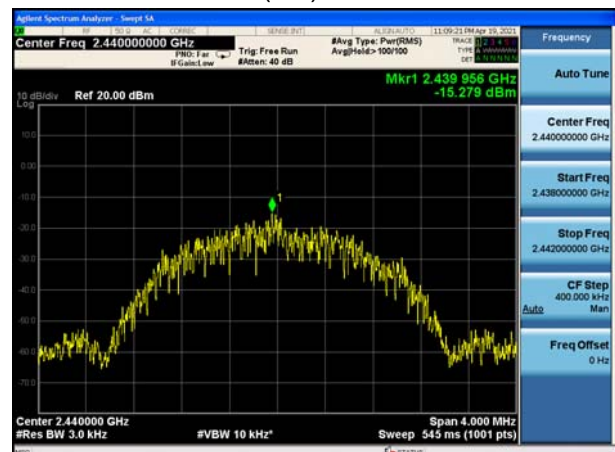
Bluetooth LE (2M), Channel No.: 0



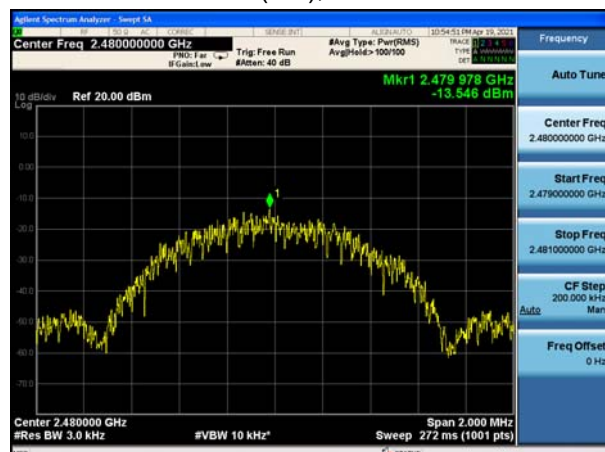
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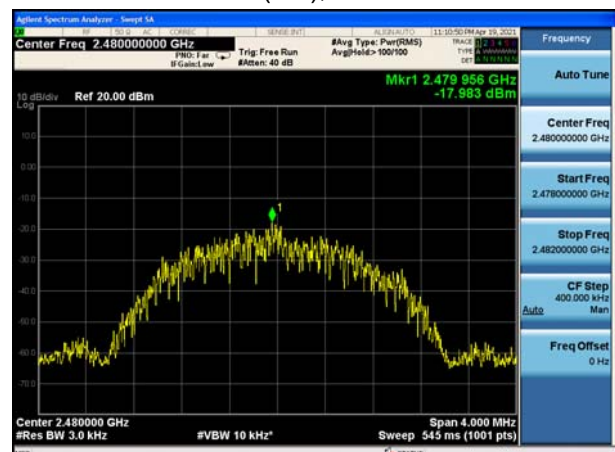
Bluetooth LE (2M), Channel No.: 19



Bluetooth LE (1M), Channel No.: 39



Bluetooth LE (2M), Channel No.: 39



5.5. Spurious RF Conducted Emissions

Ambient condition

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

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. Set RBW to 100 kHz and VBW to 300 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. ”

Test Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
802.11b	2412	10.67	-19.34
	2437	9.87	-20.13
	2462	7.71	-22.29
802.11g	2412	8.02	-21.98
	2437	7.20	-22.80
	2462	5.79	-24.21
802.11n HT20	2412	8.56	-21.45
	2437	7.19	-22.82
	2462	5.63	-24.37
802.11n HT40	2422	5.42	-24.58
	2437	4.00	-26.01
	2452	2.97	-27.03
802.11ax HE20	2412	7.25	-22.75
	2437	4.44	-25.56
	2462	4.31	-25.69
802.11ax HE40	2422	4.33	-25.68
	2437	3.81	-26.20
	2452	4.05	-25.95
Bluetooth (Low Energy) (125K)	2402	3.70	-26.30
	2440	3.43	-26.57
	2480	1.00	-29.00
Bluetooth (Low Energy) (500K)	2402	5.30	-24.71
	2440	6.55	-23.45
	2480	4.11	-25.89
Bluetooth (Low Energy) (1M)	2402	5.45	-24.55
	2440	6.45	-23.55
	2480	4.03	-25.97
Bluetooth (Low Energy) (2M)	2402	5.48	-24.52
	2440	6.44	-23.56
	2480	4.08	-25.92

Measurement Uncertainty

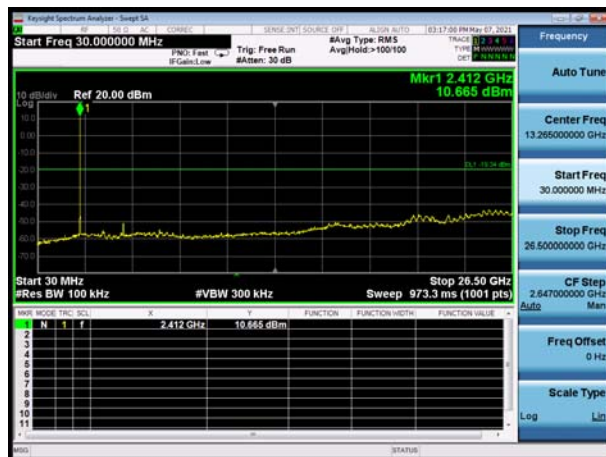
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

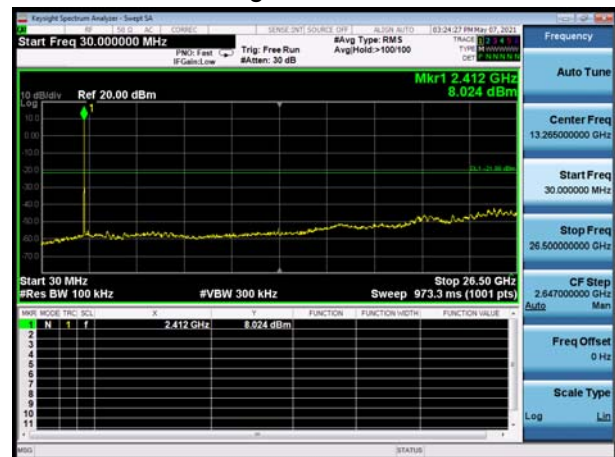


Test Results:

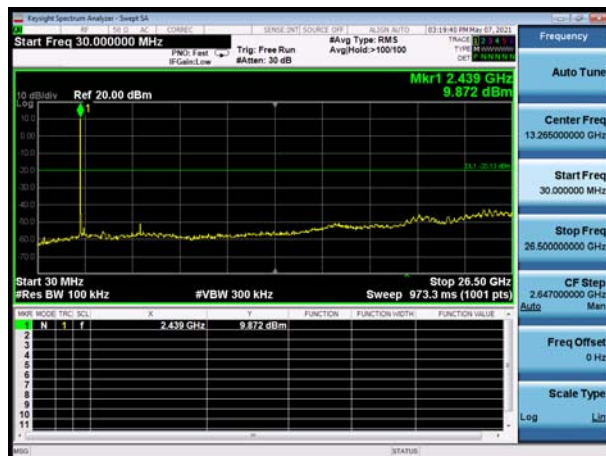
802.11b, Channel No.: 1



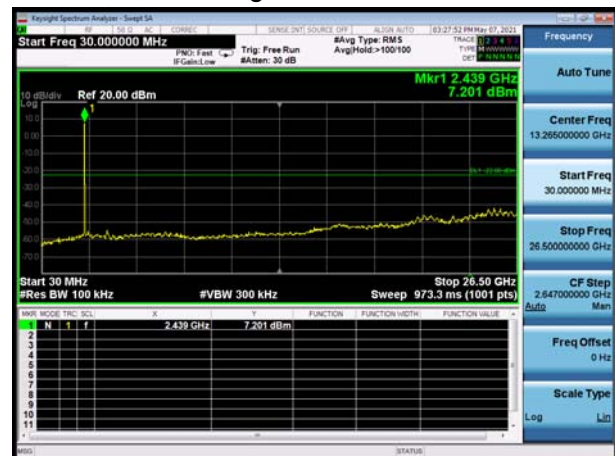
802.11g, Channel No.: 1



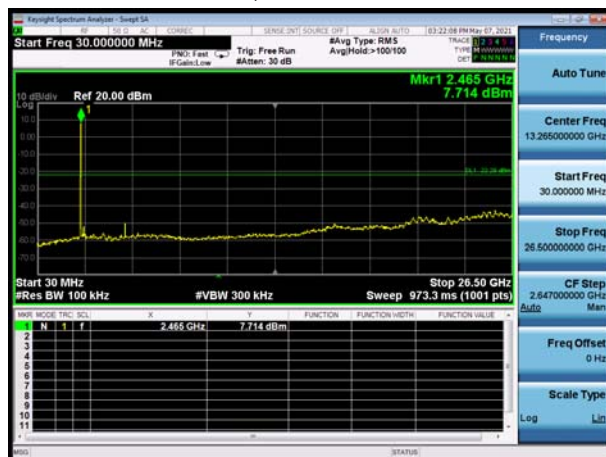
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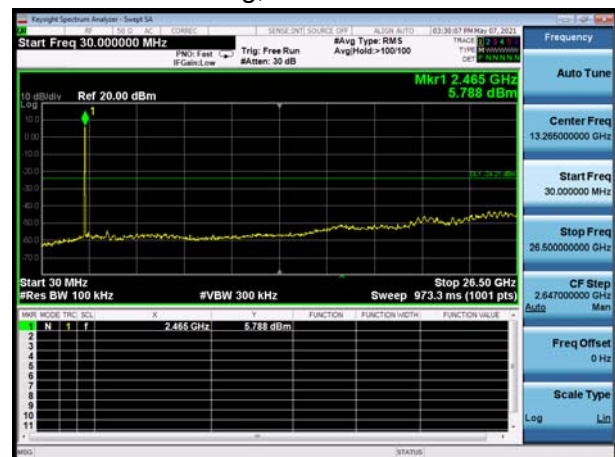
802.11g, Channel No.: 6



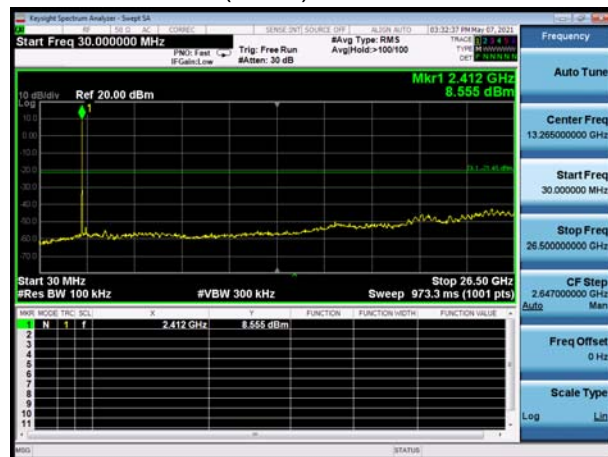
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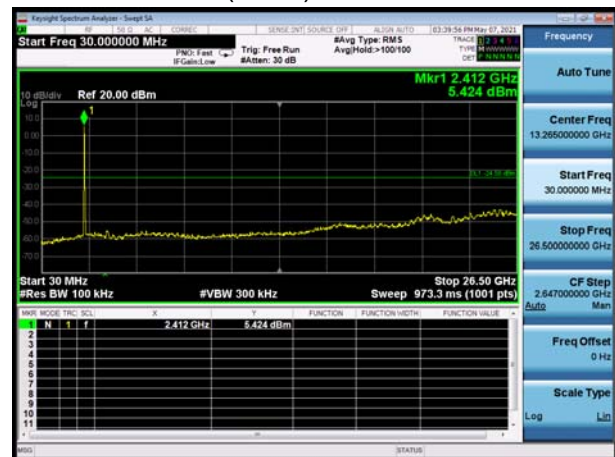
802.11g, Channel No.: 11



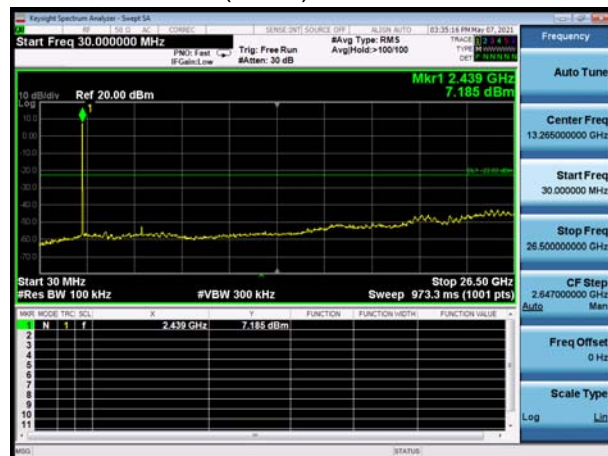
802.11n(HT20), Channel No. 1



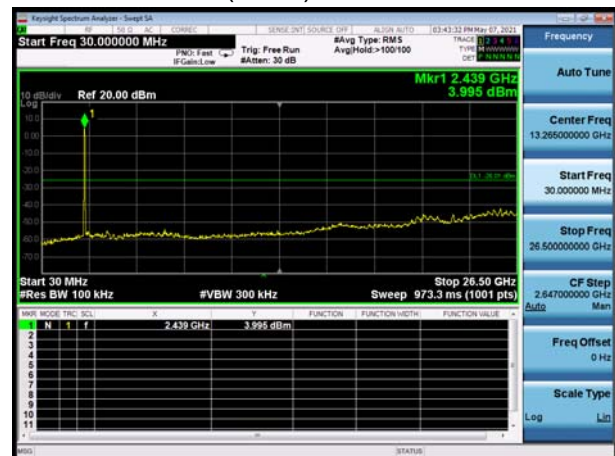
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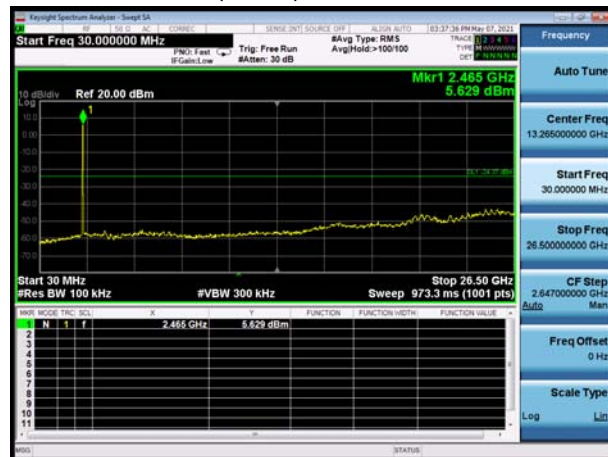
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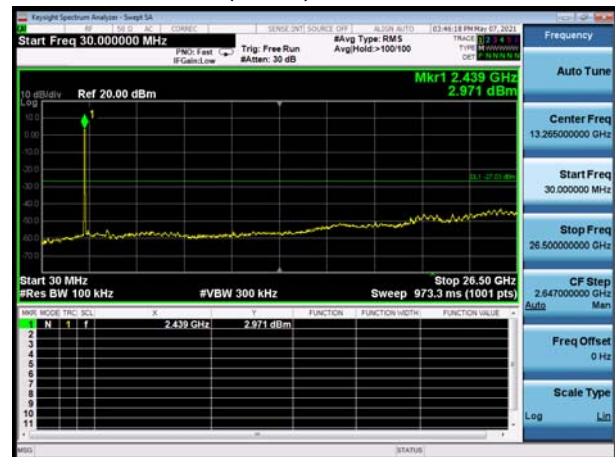
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802.11n(HT20), Channel No. 11

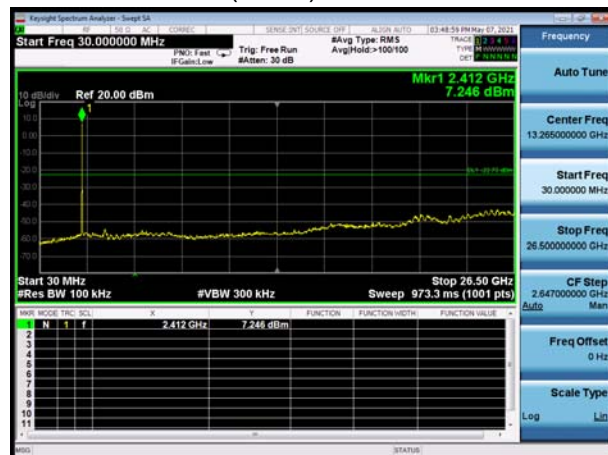


802.11n(HT40), Channel No. 9

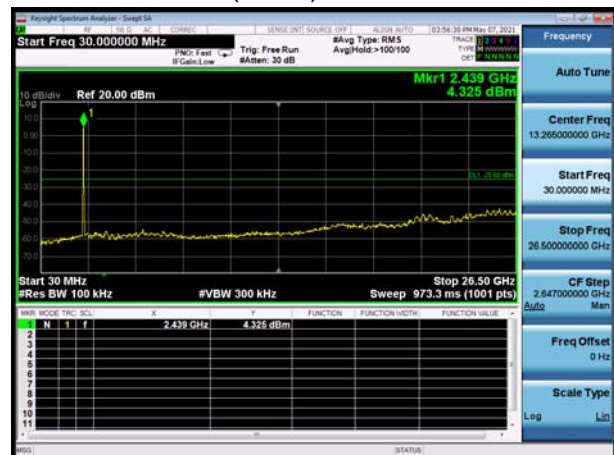




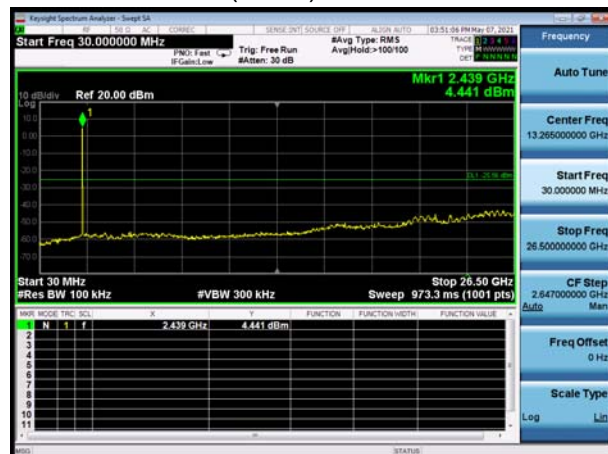
802.11ax(HE20), Channel No. 1



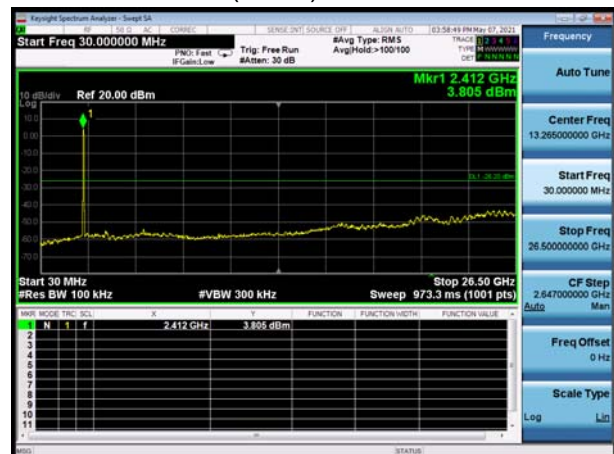
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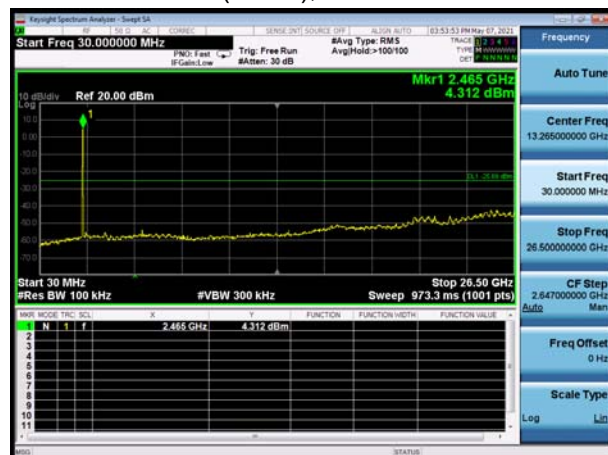
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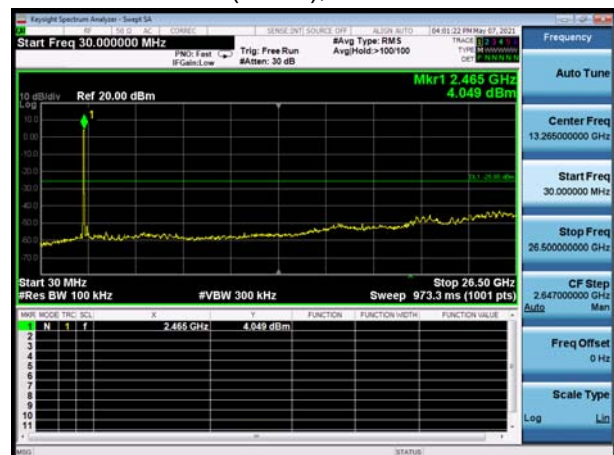
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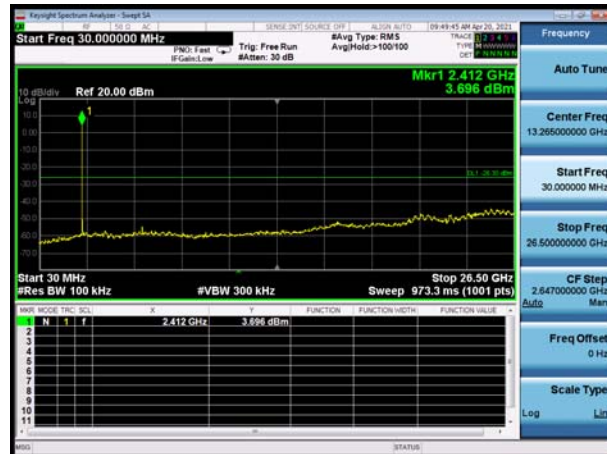
802.11ax(HE20), Channel No. 11



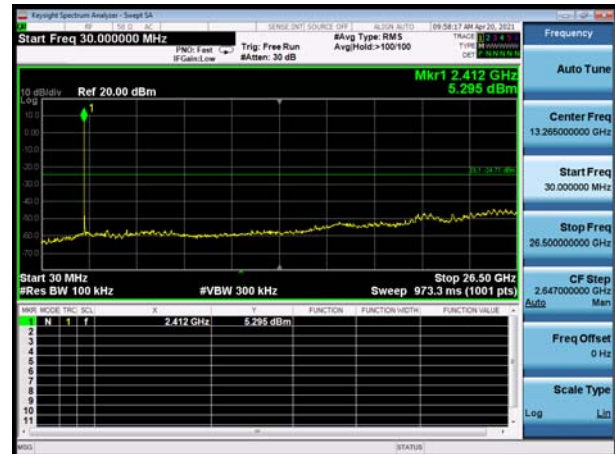
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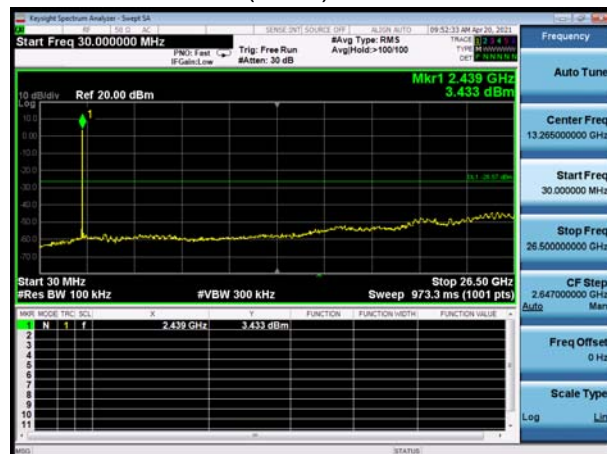
Bluetooth LE (125K), Channel No.: 0



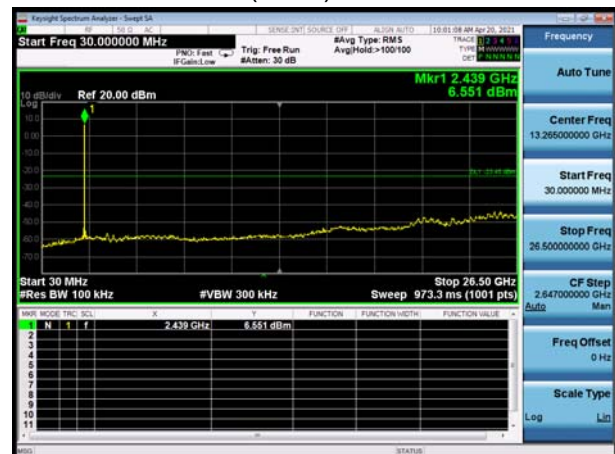
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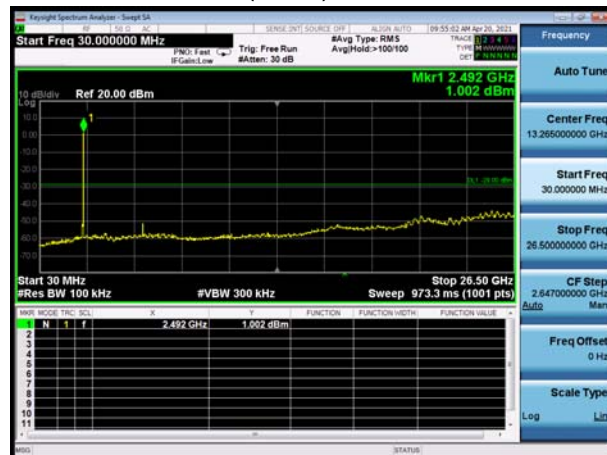
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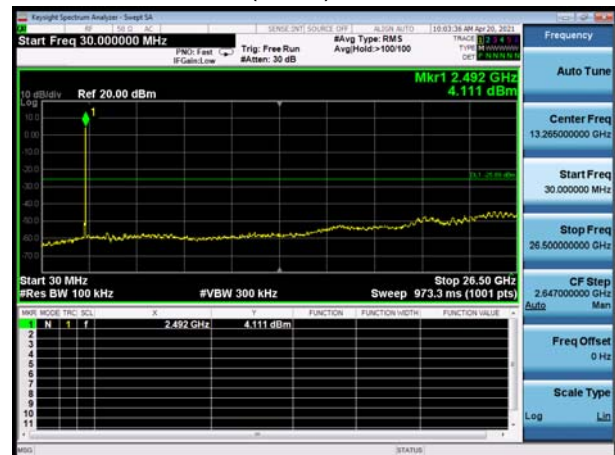
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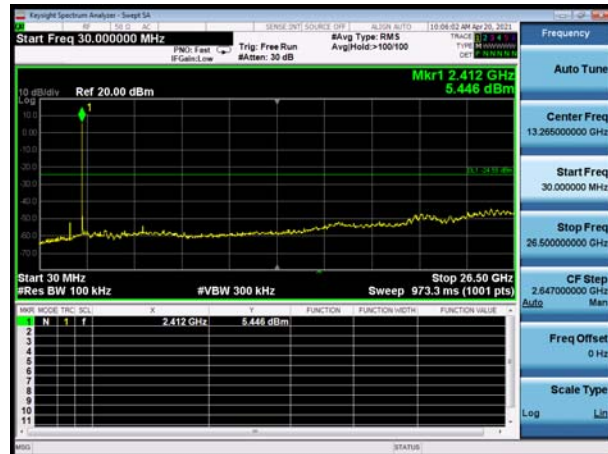
Bluetooth LE (125K), Channel No.: 39



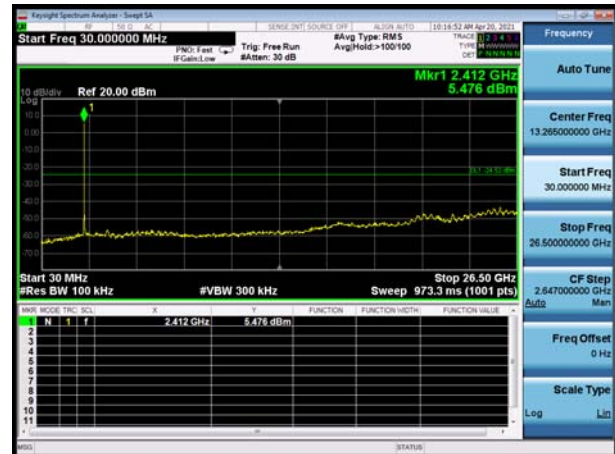
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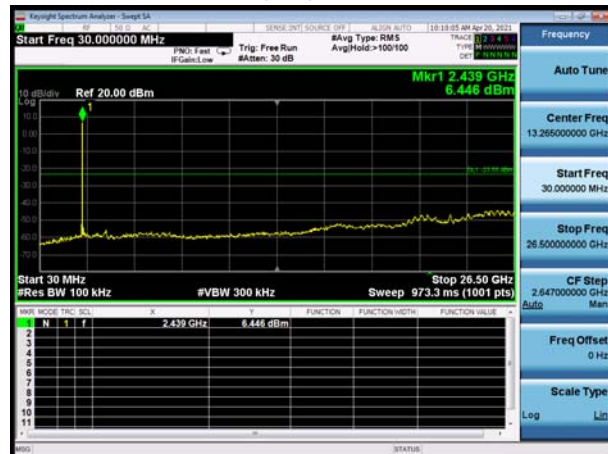
Bluetooth LE (1M), Channel No.: 0



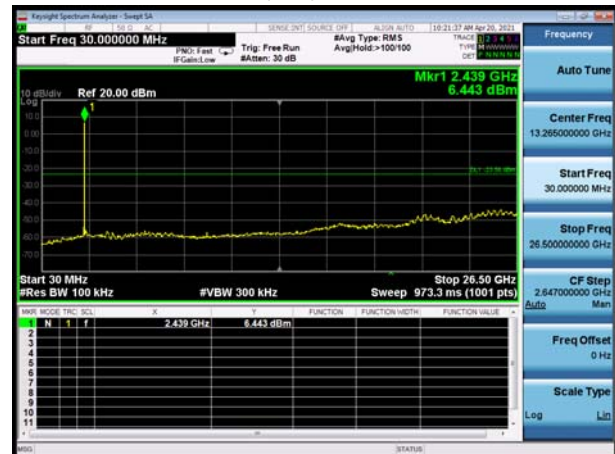
Bluetooth LE (2M), Channel No.: 0



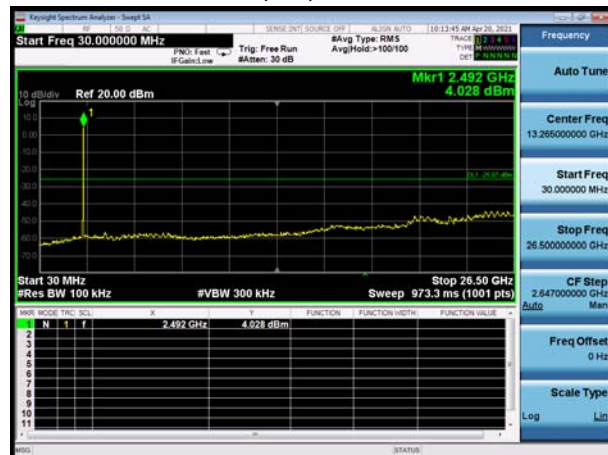
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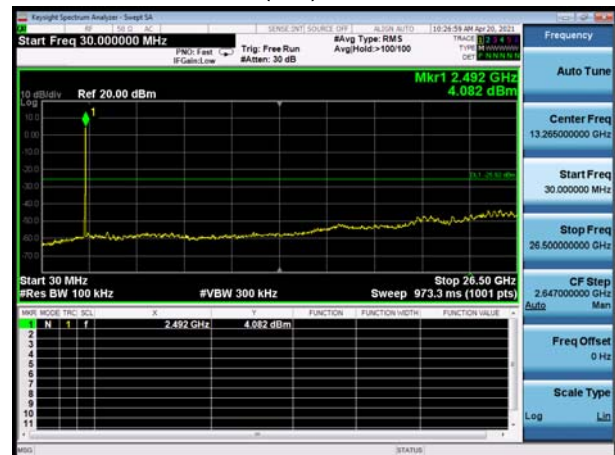
Bluetooth LE (2M), Channel No.: 19



Bluetooth LE (1M), Channel No.: 39



Bluetooth LE (2M), Channel No.: 39



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.

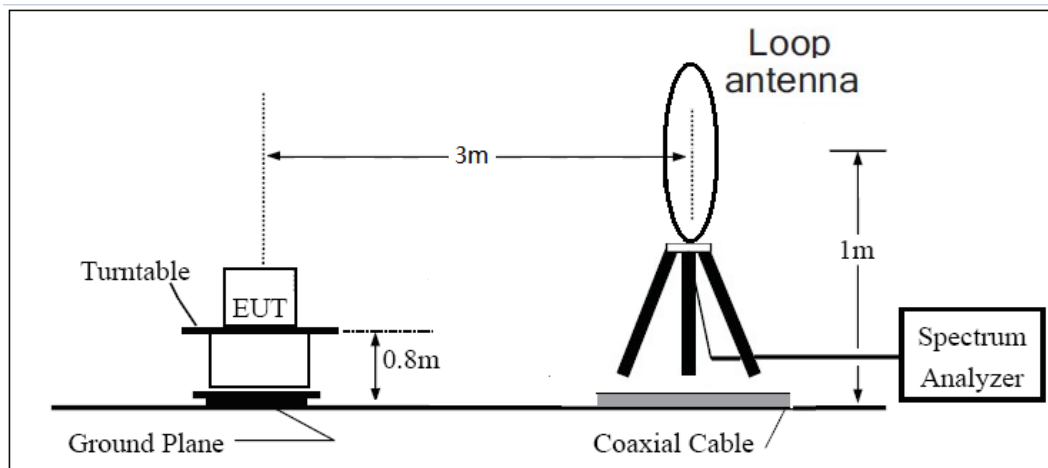
2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

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.

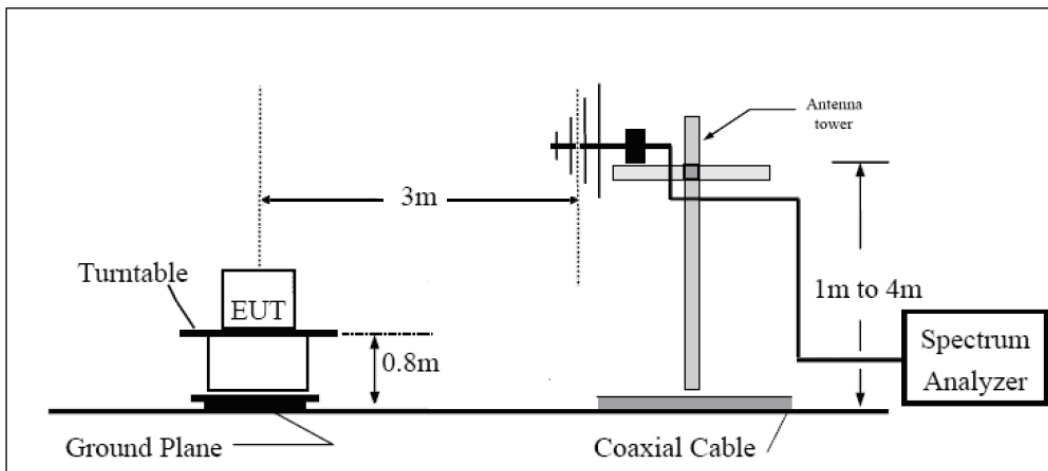
The test is in transmitting mode.

Test setup

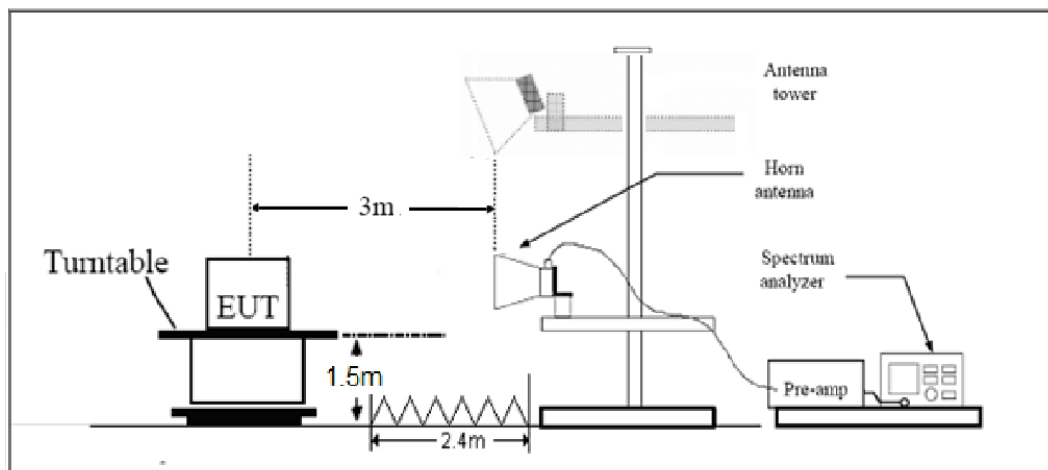
9KHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

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(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

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

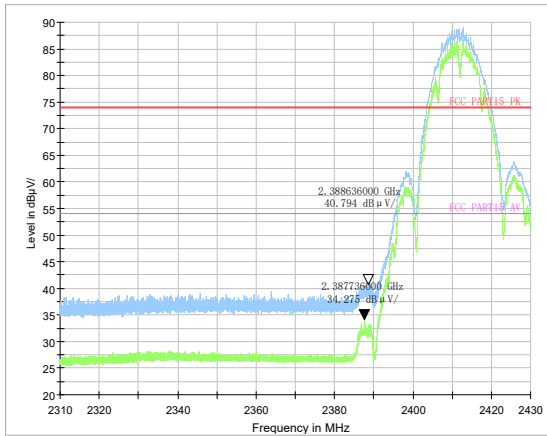
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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

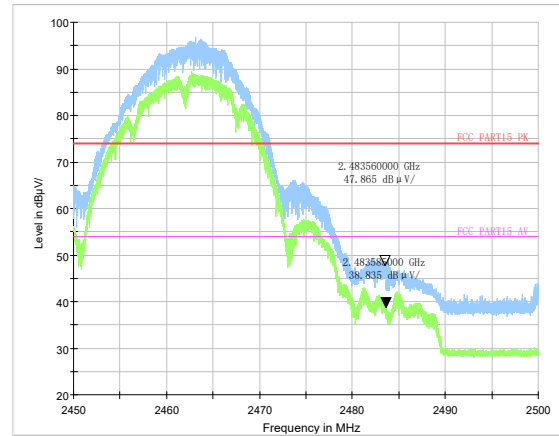
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

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

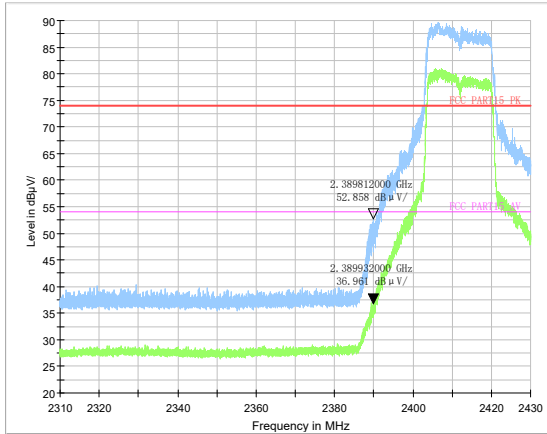
Test Results:



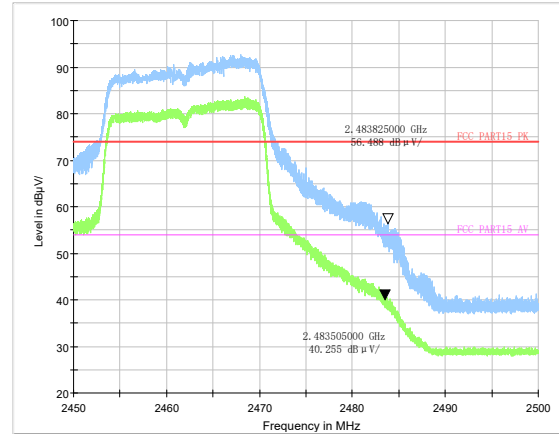
802.11b-Channel 1 Peak & Average



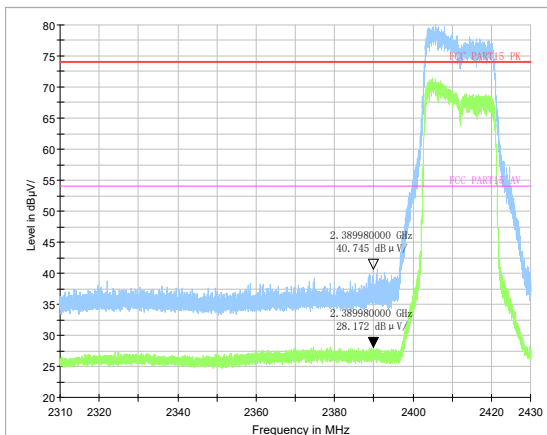
802.11b-Channel 11 Peak & Average



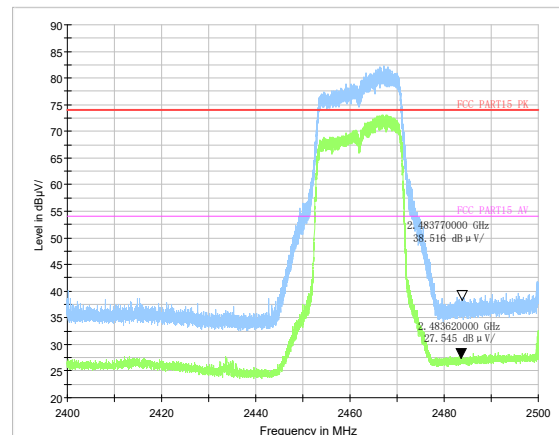
802.11g-Channel 1 Peak & Average



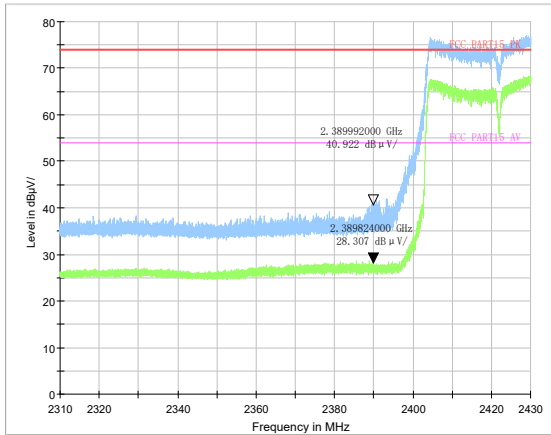
802.11g-Channel 11 Peak & Average



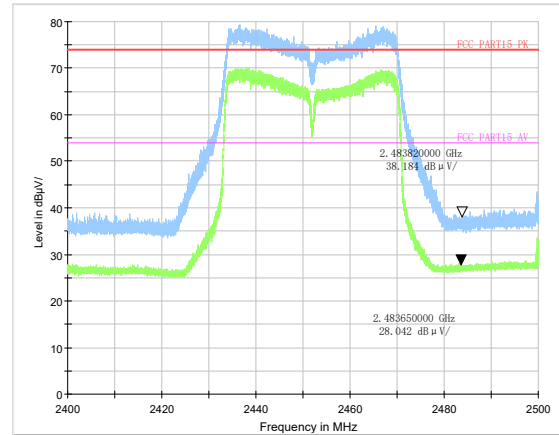
802.11n HT20 -Channel 1 Peak & Average



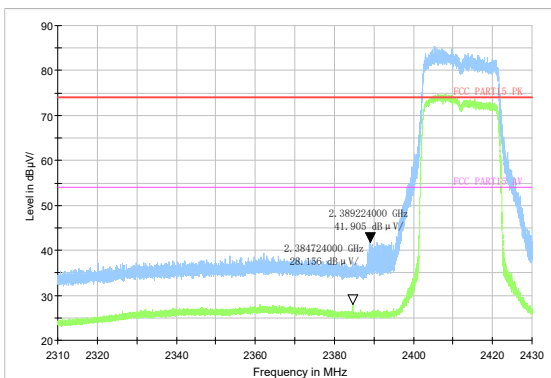
802.11n HT20 -Channel 11 Peak & Average



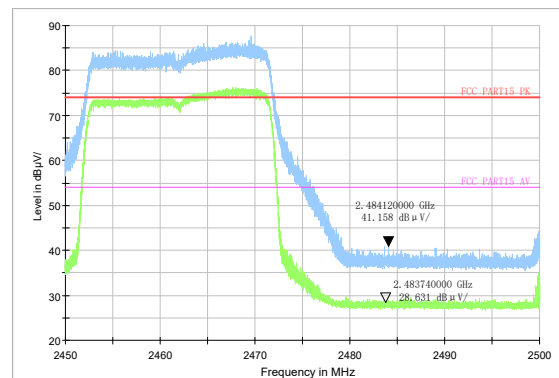
802.11n HT40 -Channel 3 Peak & Average



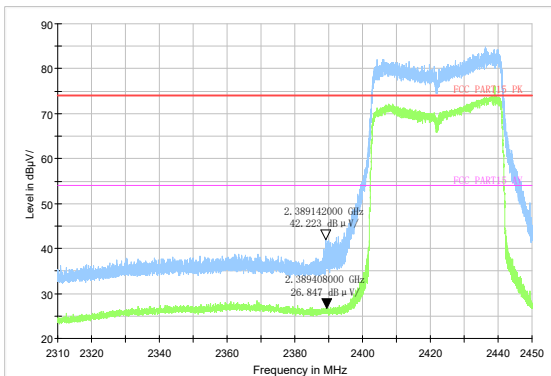
802.11n HT40 -Channel 9 Peak & Average



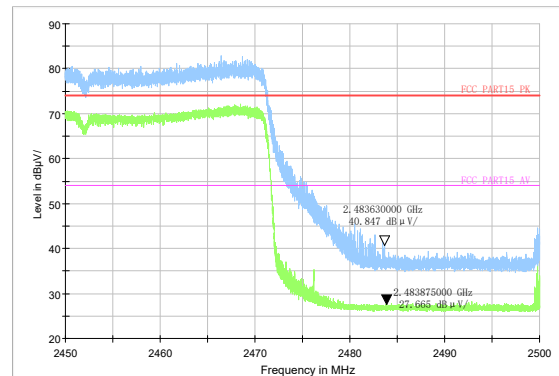
802.11ax HE20 -Channel 1 Peak & Average



802.11ax HE20 -Channel 11 Peak & Average

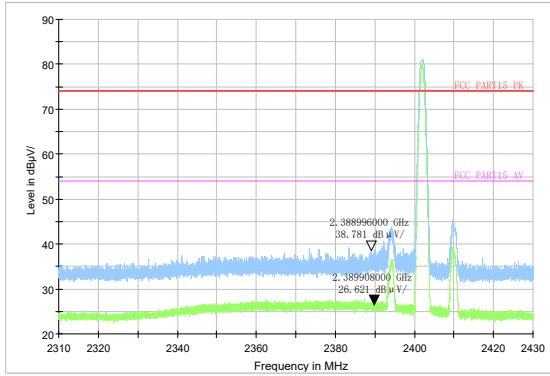


802.11ax HE40 -Channel 3 Peak & Average

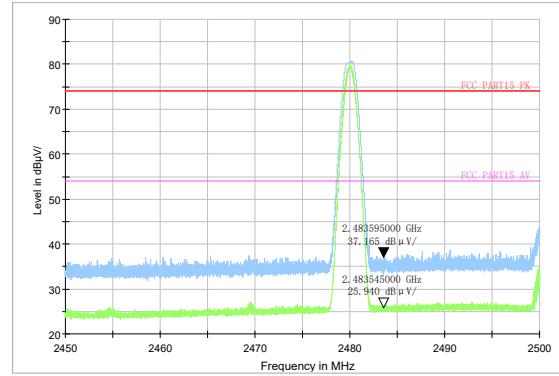


802.11ax HE40 -Channel 9 Peak & Average

During the test, the preliminary test was performed in both data rate for BLE, 125Kbps was selected as the worst case. The test data of the worst-case condition was recorded in this report



Bluetooth LE (125K) Channel 0 Peak & Average



Bluetooth LE (125K) Channel 39 Peak & Average

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.

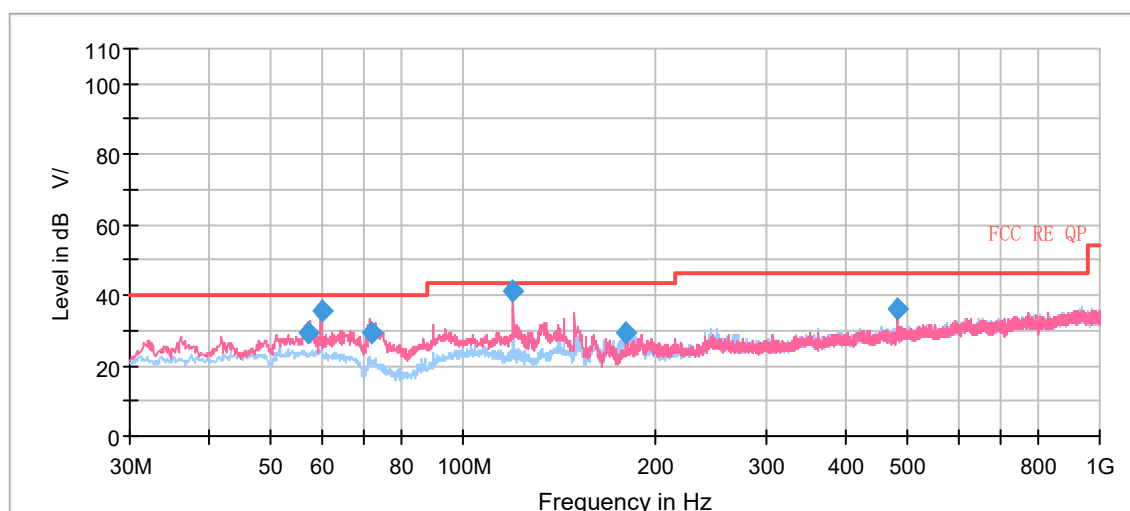
For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

After the pretest, MIMO was selected as the worst antenna for 802.11n HT20/ HT40/802.11ax HE20/ HE40. SISO Antenna 1 was selected as the worst SISO antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11ax (HE20) CH11 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

A font (Level in dB μ V/) in the test plot =(level in dB μ V/m)

Continuous TX mode:



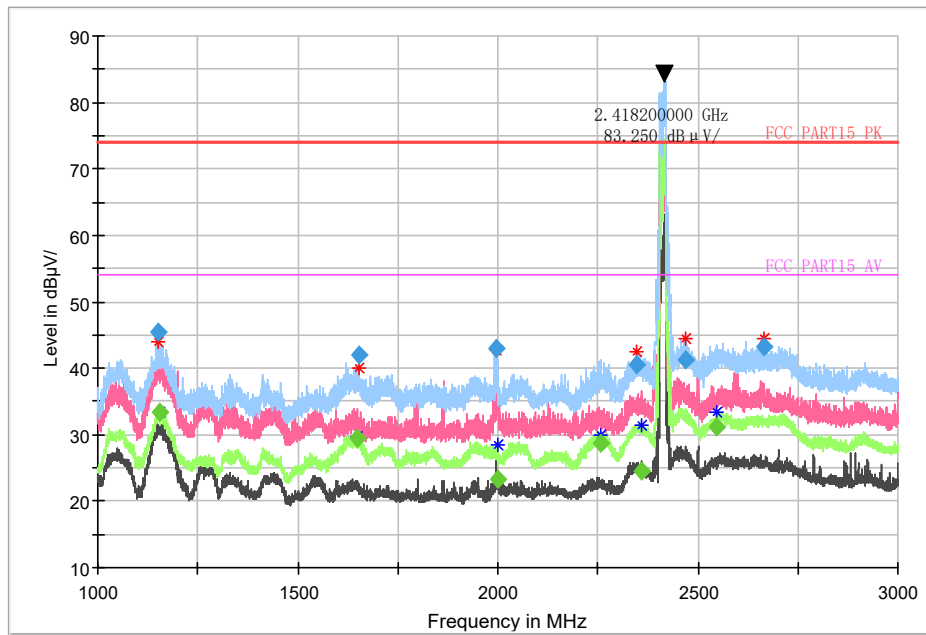
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)	Margin (dB)	Limit (dB μ V/m)
57.120000	29.42	100.0	V	189.0	-4.8	10.58	40.00
60.028750	35.66	100.0	V	188.0	-5.3	4.34	40.00
72.027500	29.58	100.0	V	311.0	-9.9	10.42	40.00
120.047500	41.21	100.0	V	302.0	-8.0	2.29	43.50
180.067500	29.50	184.0	H	269.0	-8.0	14.00	43.50
480.201250	35.94	175.0	H	12.0	-0.1	10.06	46.00

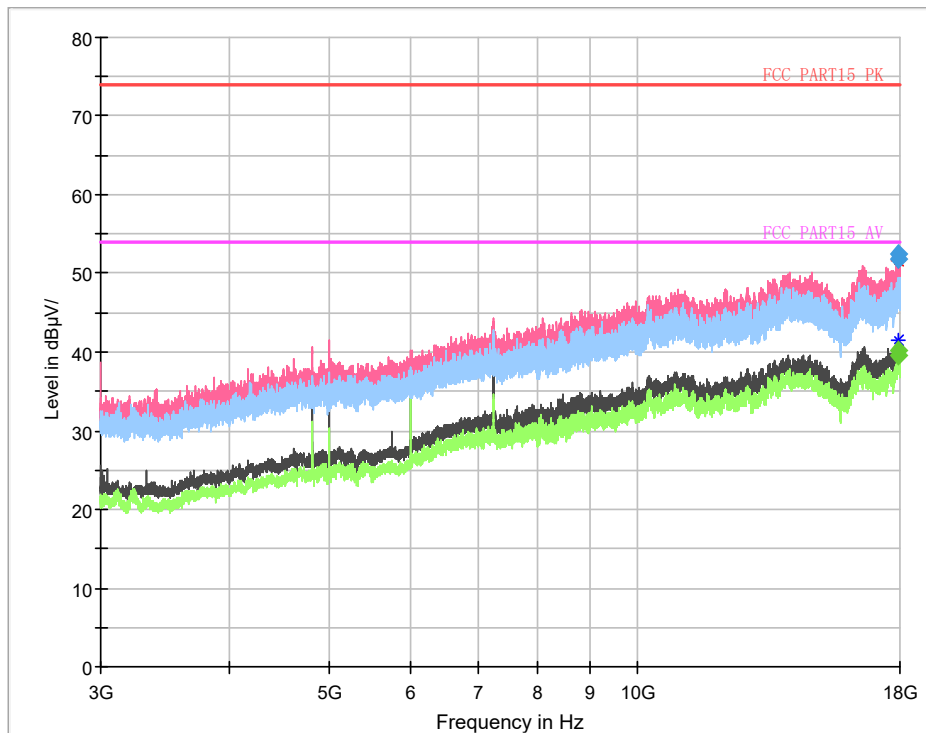
Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

2. Margin = Limit – Quasi-Peak

802.11b CH1



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

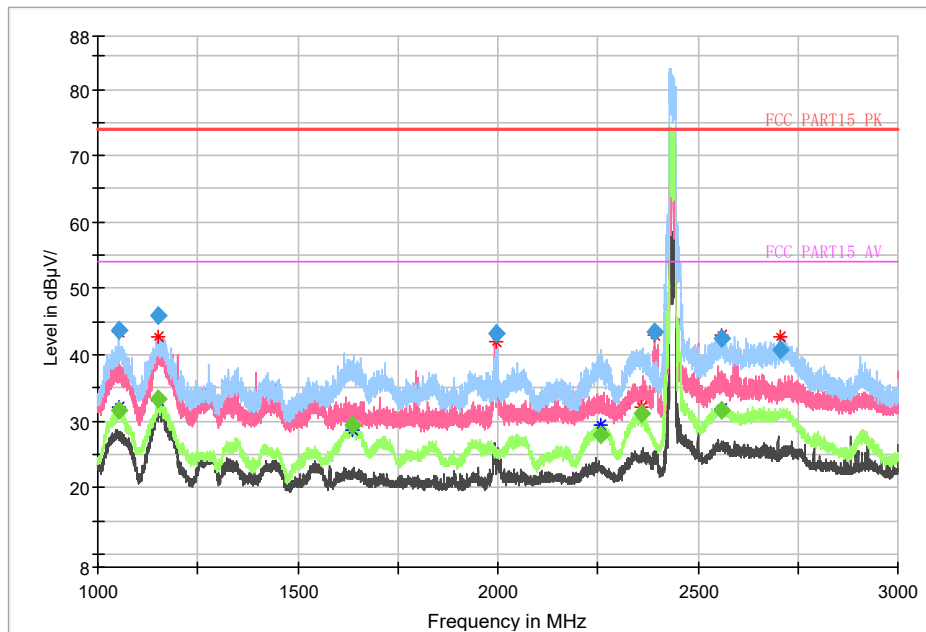


Radiates Emission from 3GHz to 18GHz

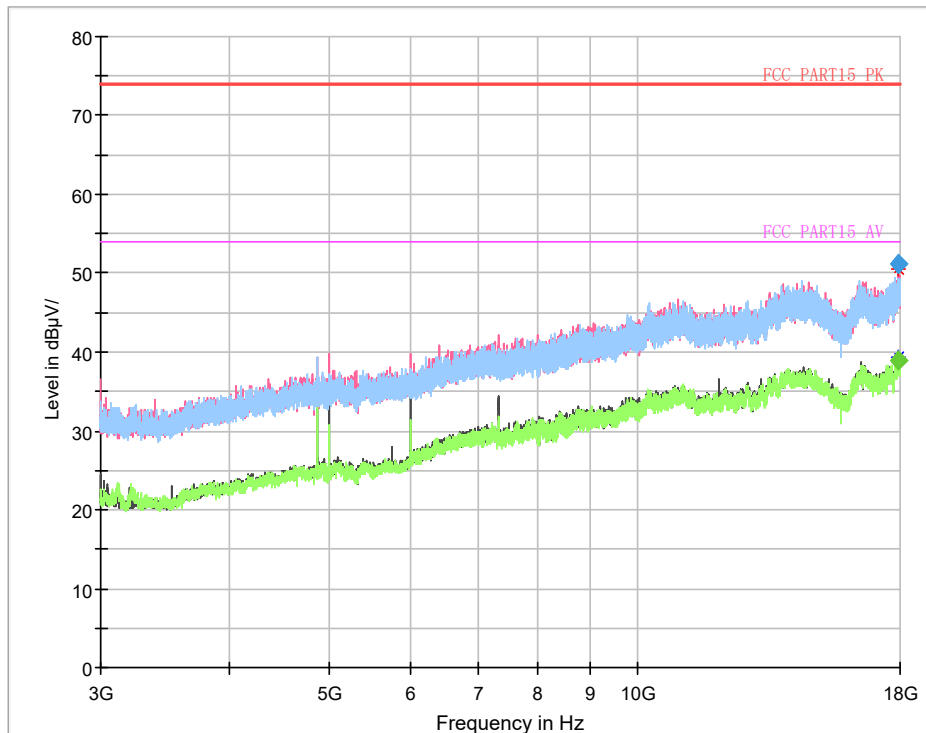
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1152.000000	45.52	---	74.00	28.48	180.0	H	117.0	-13.2
1155.600000	---	33.34	54.00	20.66	180.0	H	117.0	-13.2
1650.400000	---	29.53	54.00	24.47	180.0	H	-29.0	-12.4
1652.400000	42.01	---	74.00	31.99	180.0	H	-29.0	-12.4
1995.200000	43.09	---	74.00	30.91	180.0	H	-90.0	-11.6
1998.400000	---	23.30	54.00	30.70	180.0	H	-90.0	-11.6
2255.800000	---	28.69	54.00	25.31	180.0	H	90.0	-10.4
2348.600000	40.63	---	74.00	33.37	180.0	H	-16.0	-10.0
2358.200000	---	24.64	54.00	29.36	180.0	H	104.0	-10.0
2469.800000	41.27	---	74.00	32.73	180.0	H	-3.0	-9.5
2546.400000	---	31.17	54.00	22.83	180.0	H	90.0	-9.1
2665.000000	43.24	---	74.00	30.76	180.0	H	-3.0	-9.0

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

802.11b CH6



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

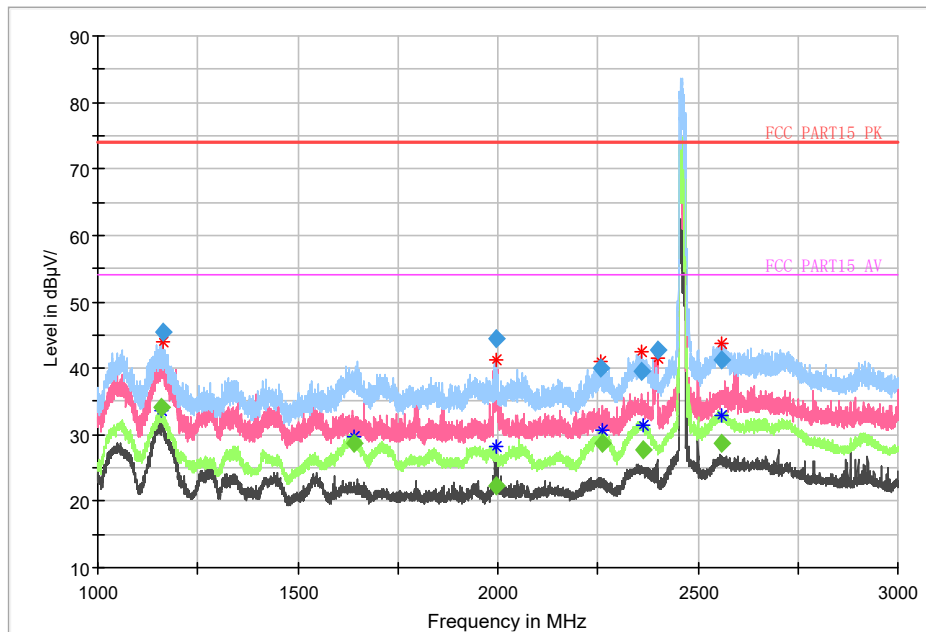


Radiates Emission from 3GHz to 18GHz

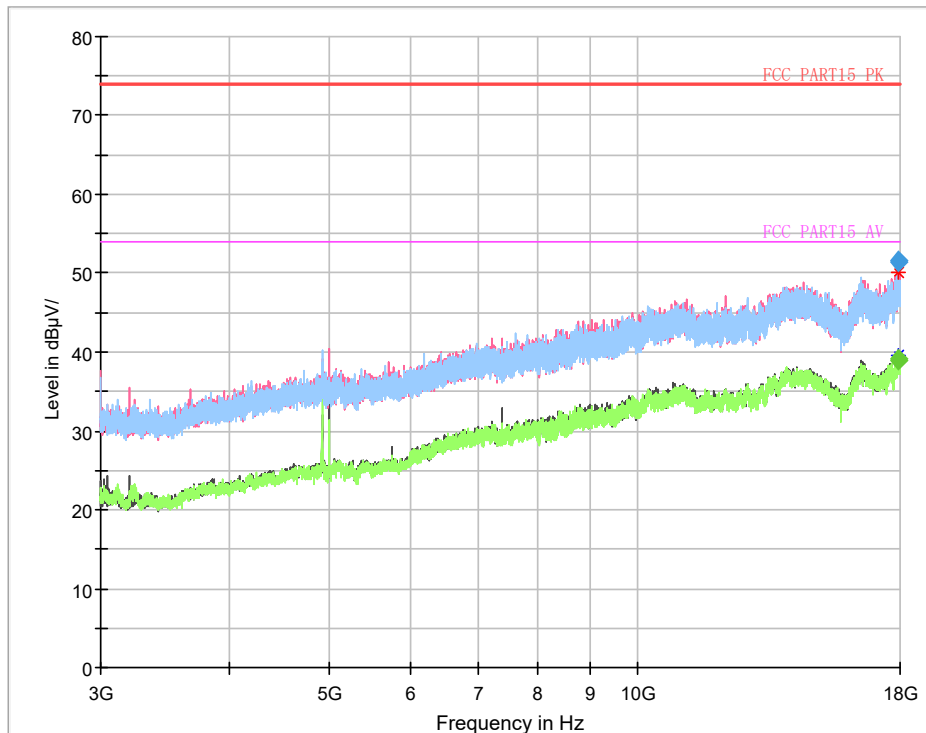
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1051.200000	43.80	---	74.00	30.20	180.0	H	119.0	-13.6
1054.400000	---	31.63	54.00	22.37	180.0	H	11.0	-13.6
1150.000000	---	33.26	54.00	20.74	180.0	H	119.0	-13.2
1150.200000	45.92	---	74.00	28.08	180.0	H	119.0	-13.2
1635.800000	---	29.44	54.00	24.56	180.0	H	-28.0	-12.4
1997.400000	43.20	---	74.00	30.80	180.0	H	-90.0	-11.6
2256.000000	---	28.00	54.00	26.00	180.0	H	91.0	-10.4
2357.200000	---	31.17	54.00	22.83	180.0	V	266.0	-10.0
2392.800000	43.52	---	74.00	30.48	180.0	V	270.0	-9.9
2559.000000	---	31.73	54.00	22.27	180.0	H	91.0	-9.1
2560.400000	42.34	---	74.00	31.66	180.0	H	-15.0	-9.1
2705.600000	40.86	---	74.00	33.14	180.0	H	-2.0	-8.7

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

802.11b CH11



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



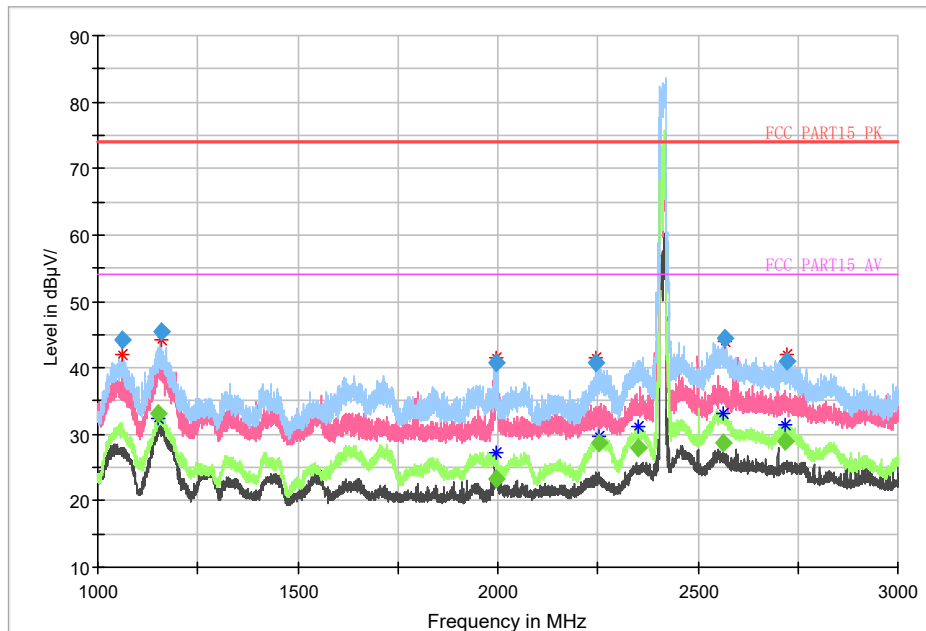
Radiates Emission from 3GHz to 18GHz



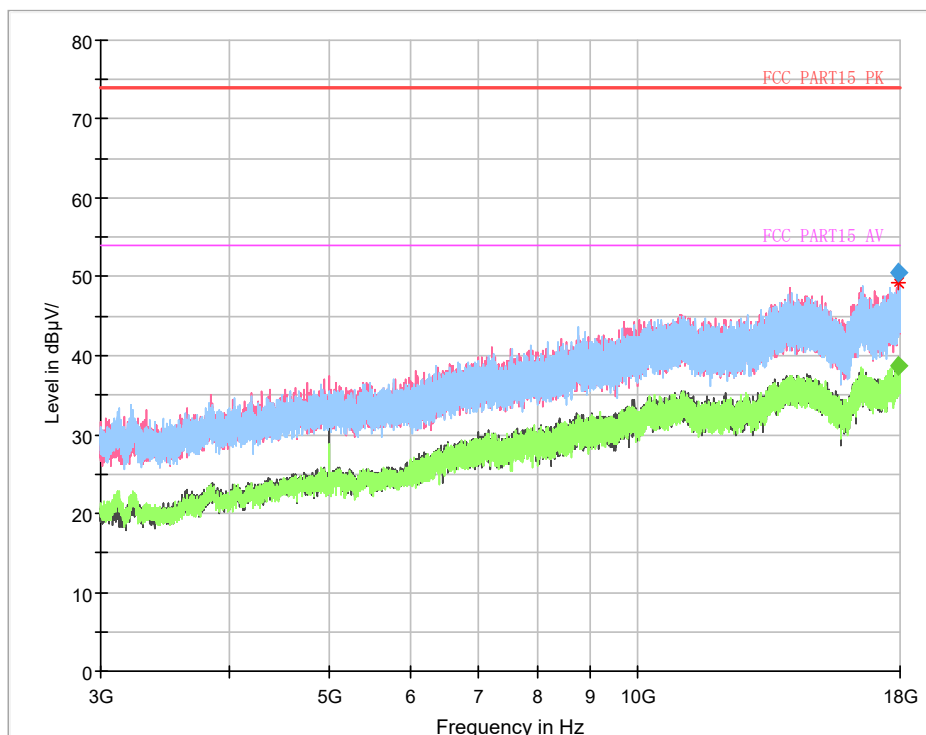
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1158.600000	---	34.02	54.00	19.98	180.0	H	118.0	-13.2
1161.400000	45.51	---	74.00	28.49	180.0	H	118.0	-13.2
1642.200000	---	28.79	54.00	25.21	180.0	H	-26.0	-12.4
1995.400000	---	22.40	54.00	31.60	180.0	V	77.0	-11.6
1996.000000	44.53	---	74.00	29.47	180.0	H	-90.0	-11.6
2258.000000	40.04	---	74.00	33.96	180.0	H	90.0	-10.4
2259.800000	---	28.67	54.00	25.33	180.0	H	90.0	-10.4
2359.200000	39.48	---	74.00	34.52	180.0	H	-13.0	-10.0
2362.200000	---	27.68	54.00	26.32	180.0	H	-13.0	-10.0
2399.600000	42.68	---	74.00	31.32	180.0	V	270.0	-9.9
2558.600000	41.35	---	74.00	32.65	180.0	H	-13.0	-9.1
2561.200000	---	28.68	54.00	25.32	180.0	H	-13.0	-9.1

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

802.11g CH1



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

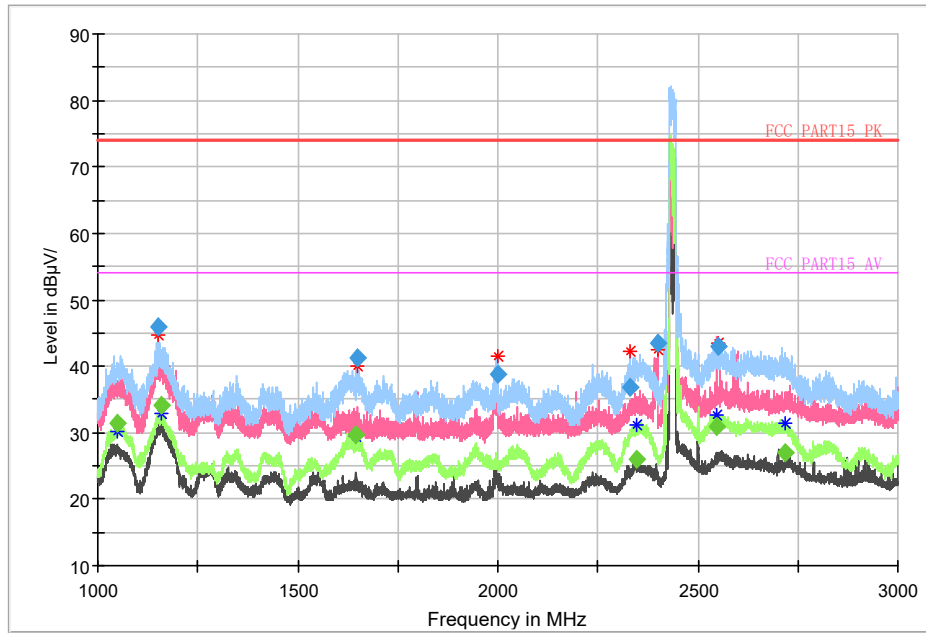


Radiates Emission from 3GHz to 18GHz

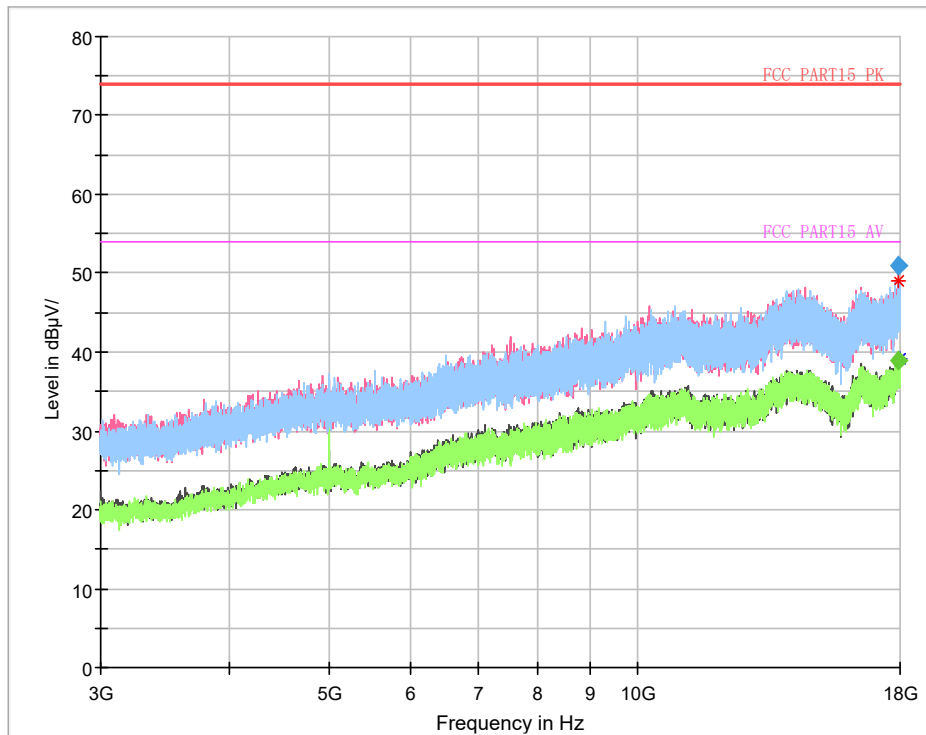
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1063.200000	44.23	---	74.00	29.77	180.0	H	115.0	-13.5
1151.000000	---	33.03	54.00	20.97	180.0	H	103.0	-13.2
1159.200000	45.39	---	74.00	28.61	180.0	H	115.0	-13.2
1994.200000	40.78	---	74.00	33.22	180.0	H	263.0	-11.6
1994.600000	---	23.23	54.00	30.77	180.0	V	90.0	-11.6
2245.400000	40.83	---	74.00	33.17	180.0	H	77.0	-10.4
2254.800000	---	28.66	54.00	25.34	180.0	H	77.0	-10.4
2349.800000	---	28.08	54.00	25.92	180.0	H	77.0	-10.0
2562.600000	---	28.59	54.00	25.41	180.0	H	51.0	-9.1
2566.200000	44.36	---	74.00	29.64	180.0	H	-24.0	-9.1
2719.000000	---	29.06	54.00	24.94	180.0	H	77.0	-8.7
2723.200000	40.91	---	74.00	33.09	180.0	H	77.0	-8.7

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

802.11g CH6



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

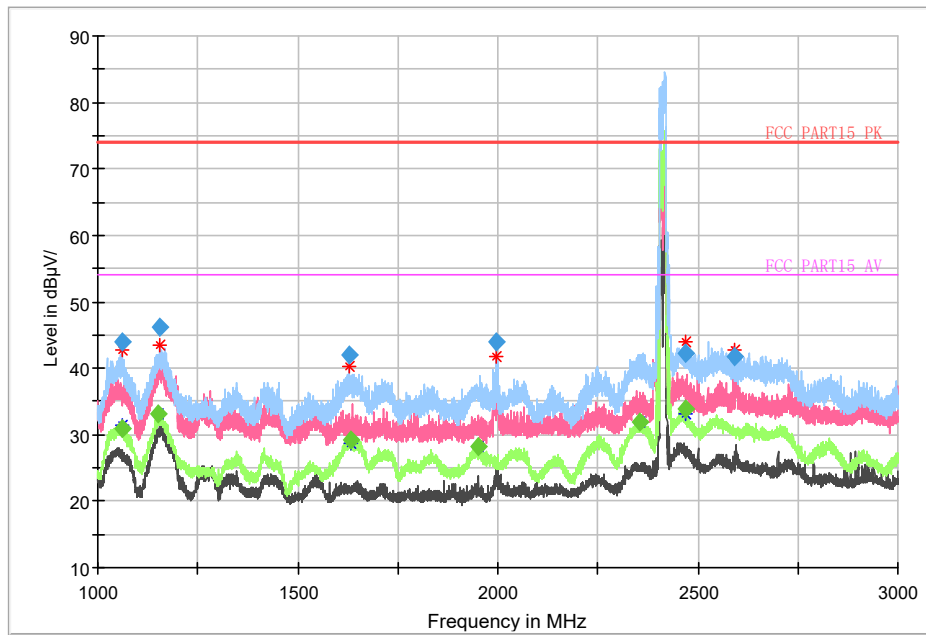


Radiates Emission from 3GHz to 18GHz

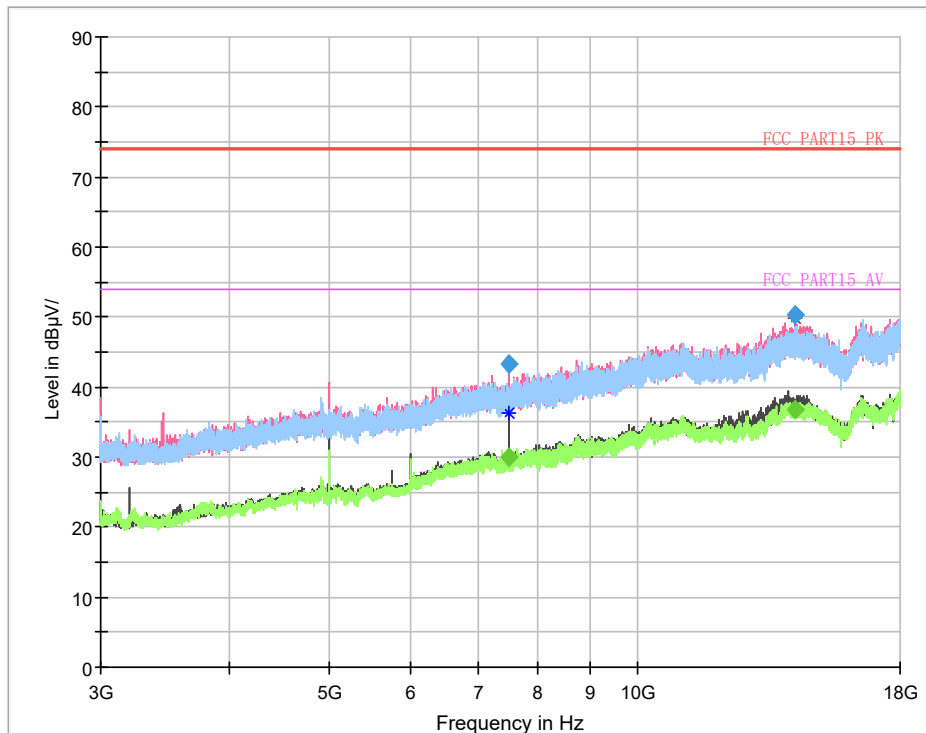
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1047.200000	---	31.36	54.00	22.64	180.0	H	102.0	-13.6
1153.000000	45.87	---	74.00	28.13	180.0	H	116.0	-13.2
1159.000000	---	34.05	54.00	19.95	180.0	H	116.0	-13.2
1643.600000	---	29.63	54.00	24.37	180.0	H	-29.0	-12.4
1647.800000	41.38	---	74.00	32.62	180.0	H	-29.0	-12.4
1999.000000	38.71	---	74.00	35.29	180.0	H	74.0	-11.6
2329.600000	36.80	---	74.00	37.20	180.0	H	102.0	-10.0
2346.200000	---	25.89	54.00	28.11	180.0	H	102.0	-10.0
2398.400000	43.60	---	74.00	30.40	180.0	V	267.0	-9.9
2547.200000	---	30.99	54.00	23.01	180.0	H	88.0	-9.1
2549.800000	42.96	---	74.00	31.04	180.0	H	88.0	-9.1
2717.400000	---	26.92	54.00	27.08	180.0	H	-16.0	-8.7

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

802.11g CH11



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

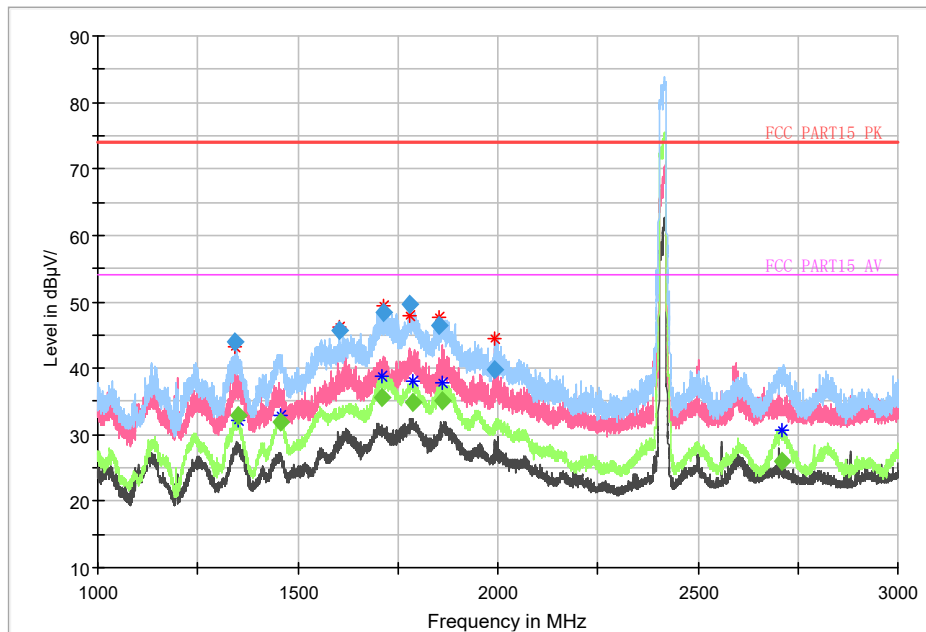


Radiates Emission from 3GHz to 18GHz

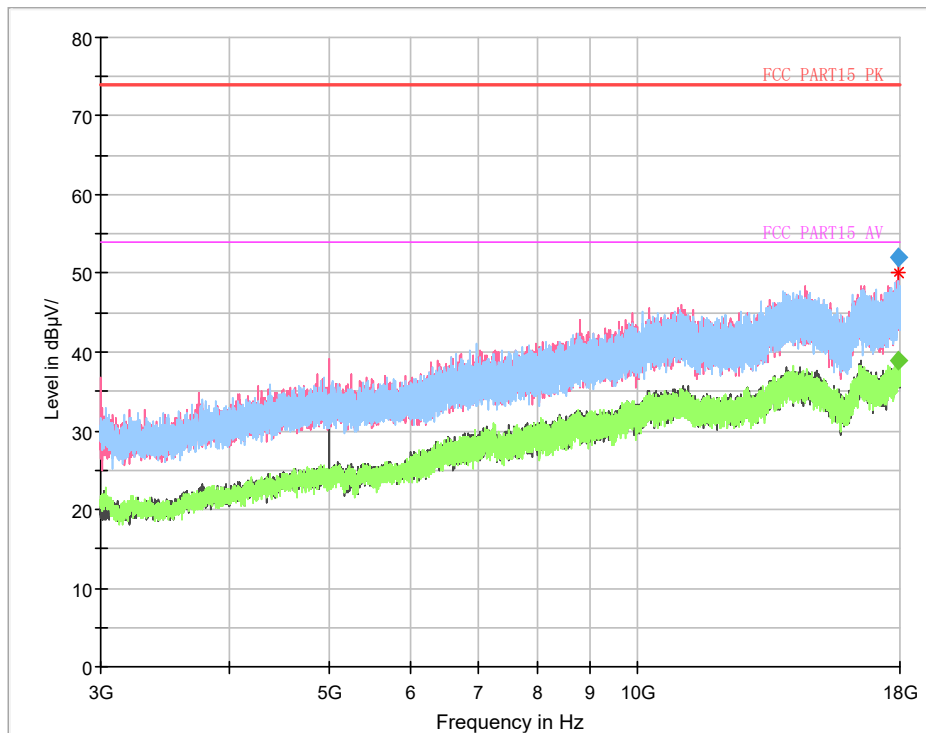
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1060.000000	43.89	---	74.00	30.11	180.0	H	116.0	-13.5
1060.000000	---	31.02	54.00	34.48	180.0	H	116.0	-13.5
1149.200000	---	33.21	54.00	34.88	180.0	H	116.0	-13.2
1156.400000	46.22	---	74.00	27.78	180.0	H	116.0	-13.2
1629.600000	41.93	---	74.00	32.07	180.0	H	-29.0	-12.5
1634.200000	---	29.11	54.00	34.55	180.0	H	-29.0	-12.4
1950.000000	---	28.25	54.00	33.86	180.0	H	-3.0	-11.7
1995.600000	44.04	---	74.00	29.96	180.0	H	-89.0	-11.6
2353.200000	---	31.96	54.00	32.50	180.0	H	102.0	-10.0
2467.400000	---	33.94	54.00	32.19	180.0	H	-3.0	-9.6
2469.800000	42.34	---	74.00	31.66	180.0	H	-3.0	-9.5
2590.600000	41.82	---	74.00	32.18	180.0	H	-29.0	-9.1

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

802.11n (HT20) CH1



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

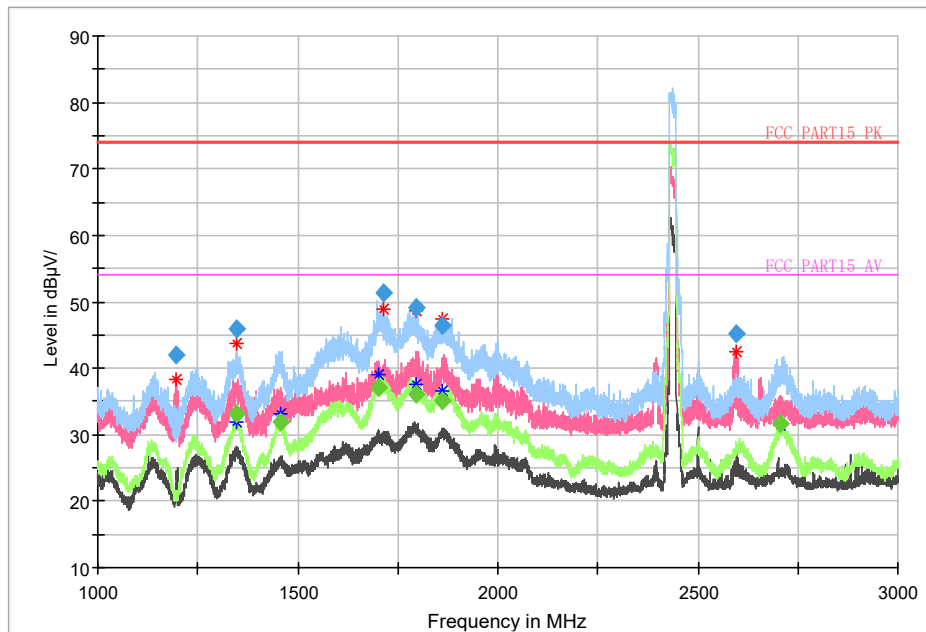


Radiates Emission from 3GHz to 18GHz

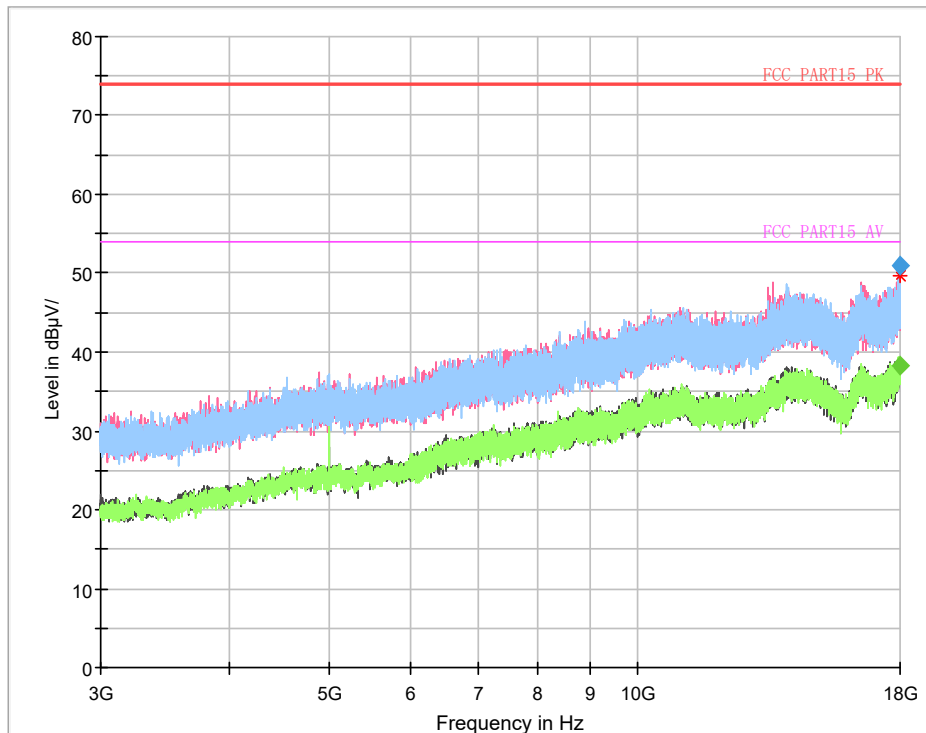
Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.600000	44.08	---	74.00	29.92	180.0	H	-11.0	-12.8
1351.600000	---	32.82	54.00	21.18	180.0	H	-50.0	-12.8
1458.800000	---	31.84	54.00	22.16	180.0	H	107.0	-13.2
1603.800000	45.74	---	74.00	28.26	180.0	H	2.0	-12.5
1711.400000	---	35.56	54.00	18.44	180.0	H	-11.0	-12.1
1712.800000	48.36	---	74.00	25.64	180.0	H	-11.0	-12.1
1779.600000	49.72	---	74.00	24.28	180.0	H	93.0	-11.9
1788.000000	---	34.78	54.00	19.22	180.0	H	-24.0	-11.9
1854.400000	46.42	---	74.00	27.58	180.0	H	2.0	-11.8
1862.000000	---	35.03	54.00	18.97	180.0	H	2.0	-11.8
1993.400000	39.89	---	74.00	34.11	180.0	H	15.0	-11.6
2712.000000	---	25.91	54.00	28.10	180.0	H	93.0	-8.7

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

802.11n (HT20) CH6



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



Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1196.200000	41.88	---	74.00	32.12	180.0	V	193.0	-13.1
1347.400000	45.83	---	74.00	28.17	180.0	H	-13.0	-12.8
1347.600000	---	33.07	54.00	20.93	180.0	H	-13.0	-12.8
1456.000000	---	31.99	54.00	22.01	180.0	H	105.0	-13.2
1703.400000	---	36.99	54.00	17.01	180.0	H	-13.0	-12.2
1715.600000	51.24	---	74.00	22.76	180.0	H	-13.0	-12.1
1797.200000	49.15	---	74.00	24.85	180.0	H	90.0	-11.9
1797.600000	---	35.98	54.00	18.02	180.0	H	0.0	-11.9
1861.000000	---	35.16	54.00	18.84	180.0	H	-13.0	-11.8
1861.400000	46.48	---	74.00	27.52	180.0	H	-13.0	-11.8
2597.800000	45.29	---	74.00	28.71	180.0	V	270.0	-9.1
2705.400000	---	31.57	54.00	22.43	180.0	H	90.0	-8.7

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