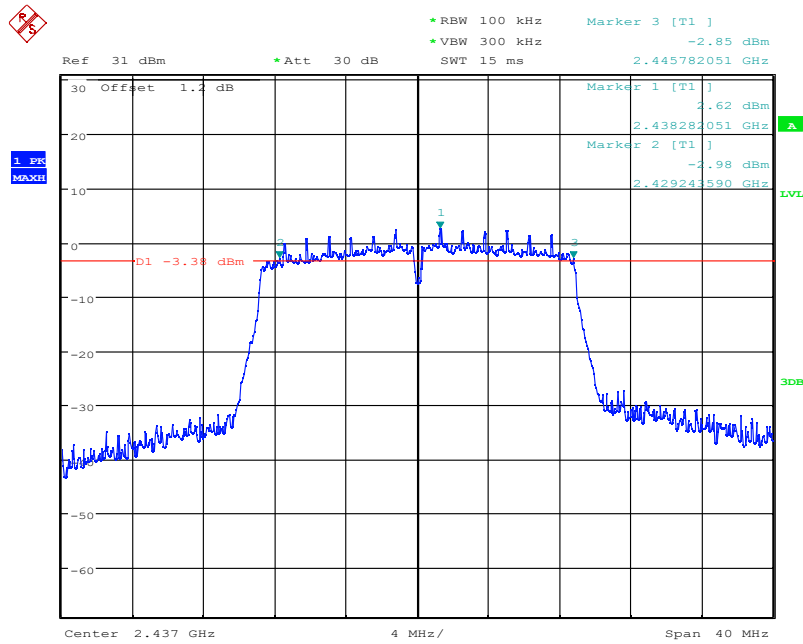
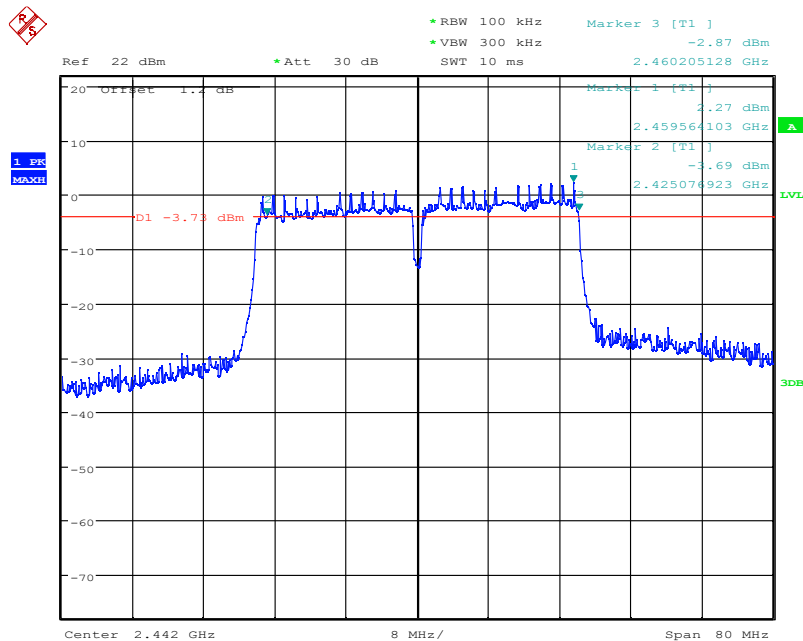


Report No.:I21W00012-WLAN_Rev2



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Fig.79 6dB Bandwidth: Ch6,11n



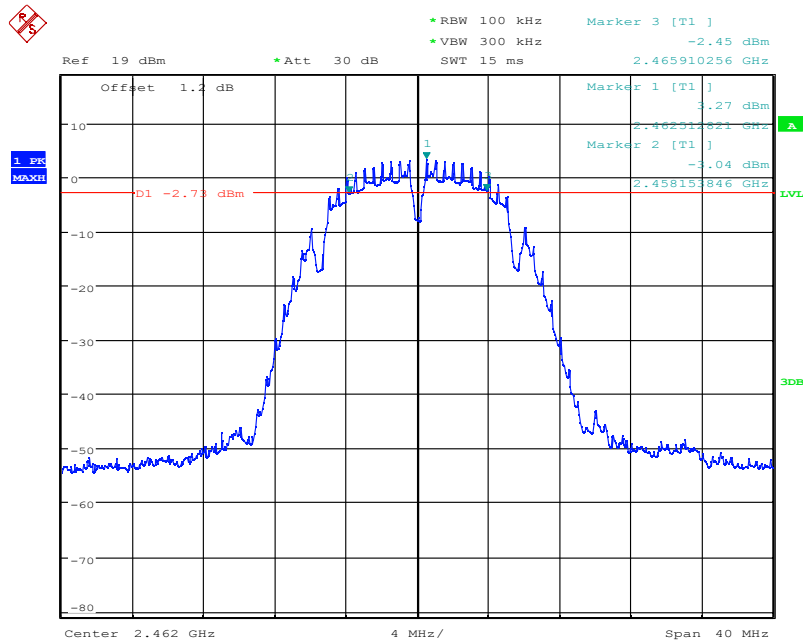
Date: 16.JUN.2021 22:25:56

Fig.80 6dB Bandwidth: Ch6,11n(40M)

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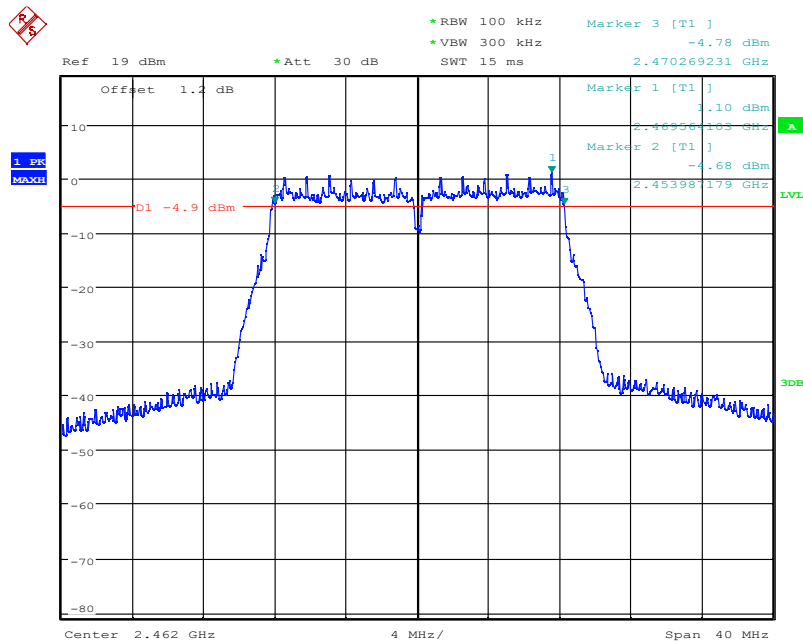
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Date: 16.JUN.2021 22:08:02

Fig.81 6dB Bandwidth: Ch11,11b



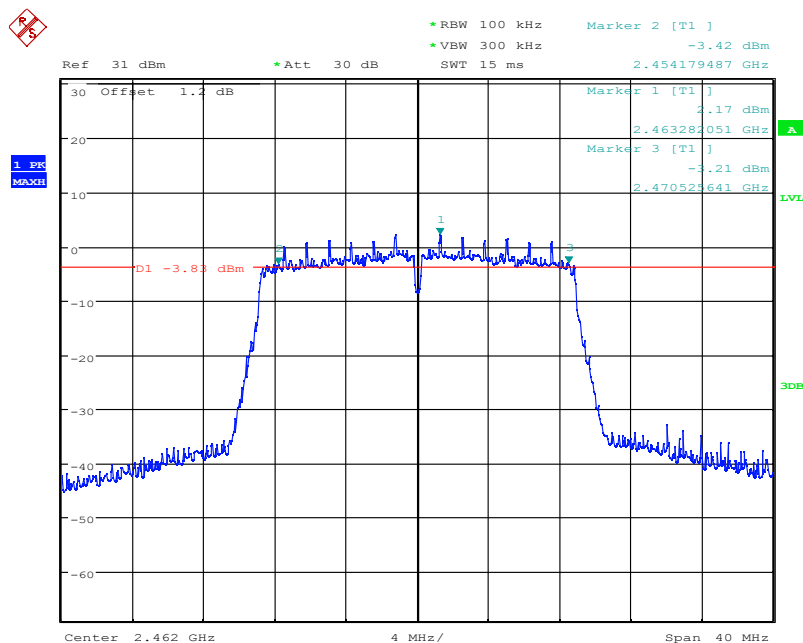
Date: 16.JUN.2021 22:10:23

Fig.82 6dB Bandwidth: Ch11,11g

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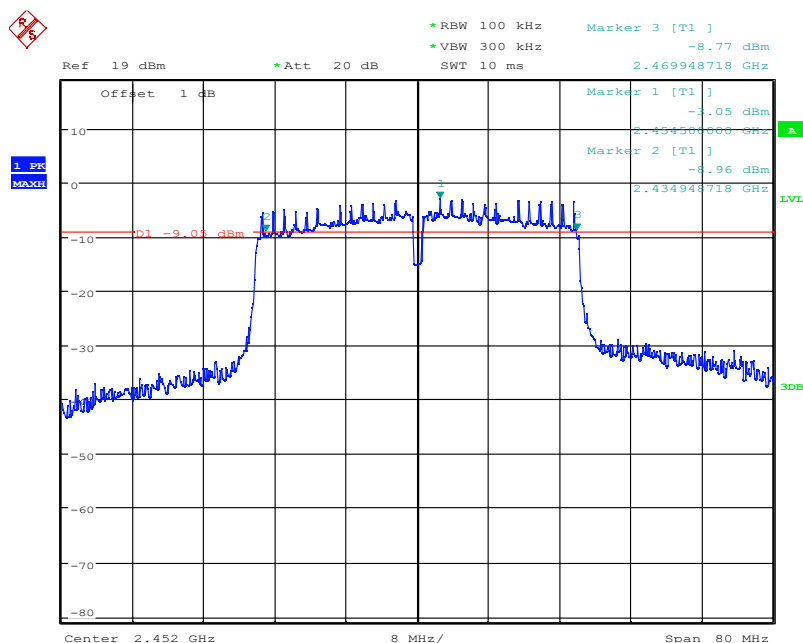
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Date: 16.JUN.2021 22:20:54

Fig.83 6dB Bandwidth: Ch11,11n



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Fig.84 6dB Bandwidth: Ch9,11n(40M)

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5.4 Band Edges Compliance

Specifications:	FCC 47 CFR Part 15.205
DUT Serial Number:	866884045648193
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limited(dBuV/m)	
FCC 47 CFR Part 15.209	Peak	74
	Average	54

Measurement Uncertainty:

Frequency Range	Uncertainty
1 GHz to 6 GHz	4.68

Test Procedure

The measurement is according to ANSI C63.10 clause11.13.

- Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
- Reference level offset: Corrected for gains and losses of test antenna factor, preamp gain and cable loss, so as to indicate field strength, in units of dBμV/m at 3 m, directly on the instrument display. Alternatively, the reference level offset may be set to zero and calculations shall be provided showing the conversion of raw measured data to the field strength in dBμV/m at 3 m.
- Reference level: As required to keep the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2..
- Attenuation: Auto (at least 10 dB preferred).
- Sweep time: Coupled.
- Resolution bandwidth: Above 1 GHz: 1 MHz
- Video bandwidth: VBW for Peak, Quasi-peak, or Average Detector Function: 3×RBW
- Detector (unless specified otherwise): Peak and average above 1 GHz
- Trace: Max hold for final measurement; a combination of two traces, clear-write and max hold, is recommended for maximizing the emission.

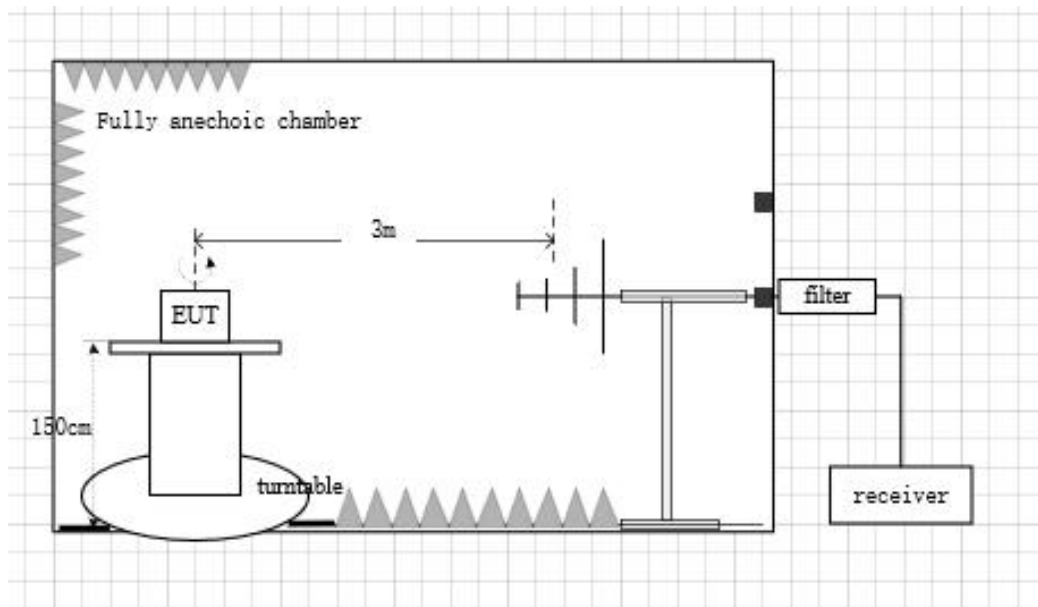
Note: The curve represents V polarization.

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Test block diagram:



Test Result:

802.11b/g mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11b	1	Fig.109	Pass
	11	Fig.110	Pass
802.11g	1	Fig.111	Pass
	11	Fig.112	Pass

802.11n mode

mode	Channel	Test Results(dBuV/m)	Conclusion
802.11n (20MHz)	1	Fig.113	Pass
	11	Fig.114	Pass
802.11n (40MHz)	3	Fig.115	Pass

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	9	Fig.116	Pass
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Conclusion: PASS

Test figure as below:

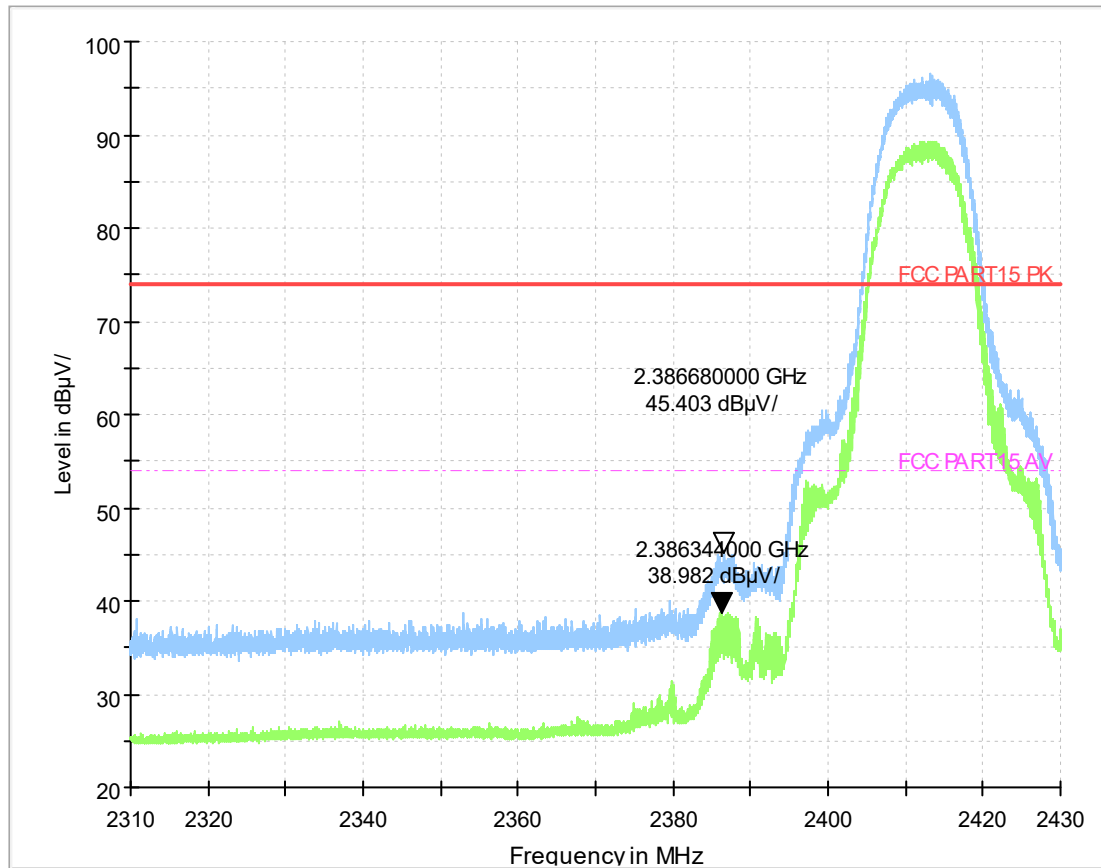


Fig.85 Frequency Band Edge: Ch1,11b

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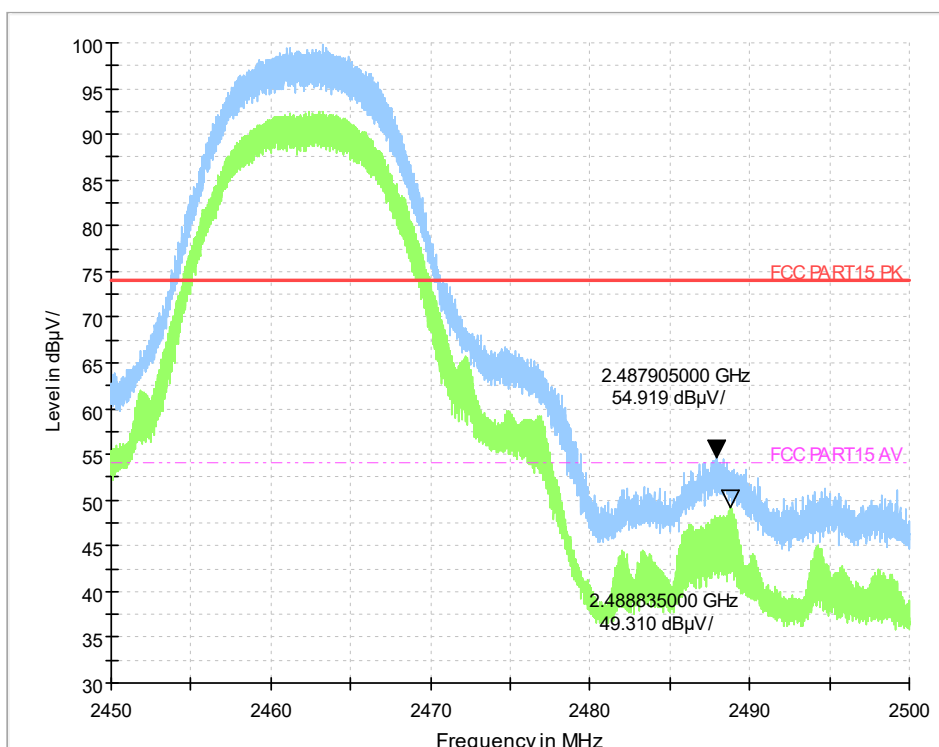


Fig.86 Frequency Band Edge: Ch11,11b

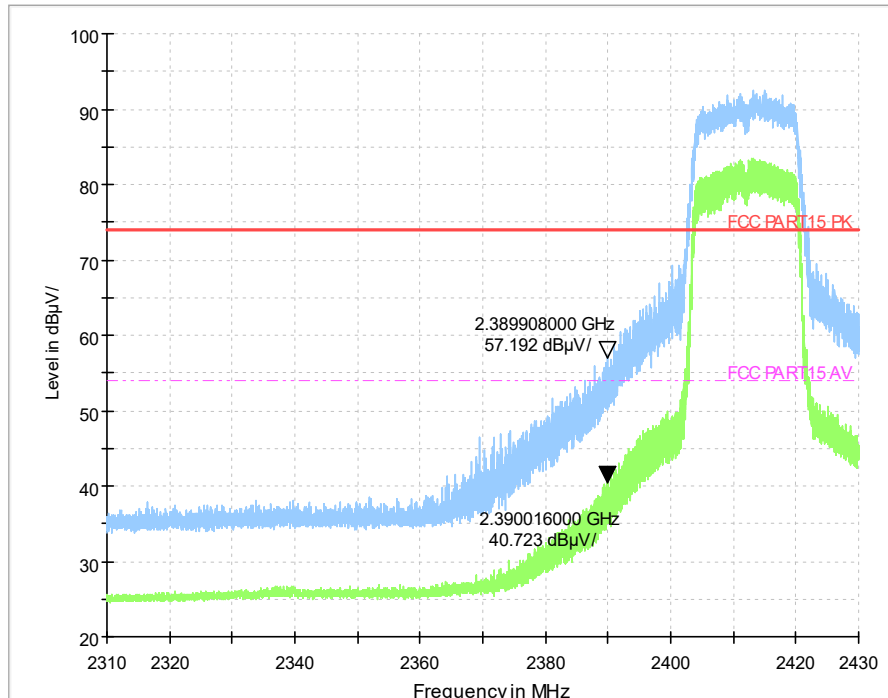


Fig.87 Frequency Band Edge: Ch1,11g

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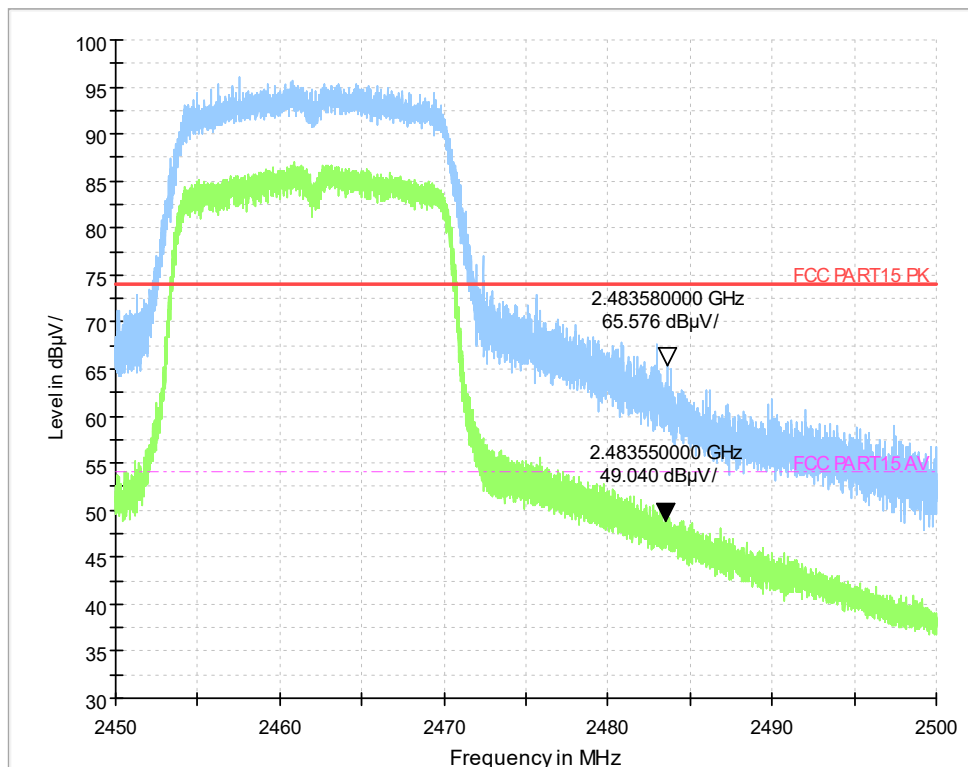


Fig.88 Frequency Band Edge: Ch11,11g

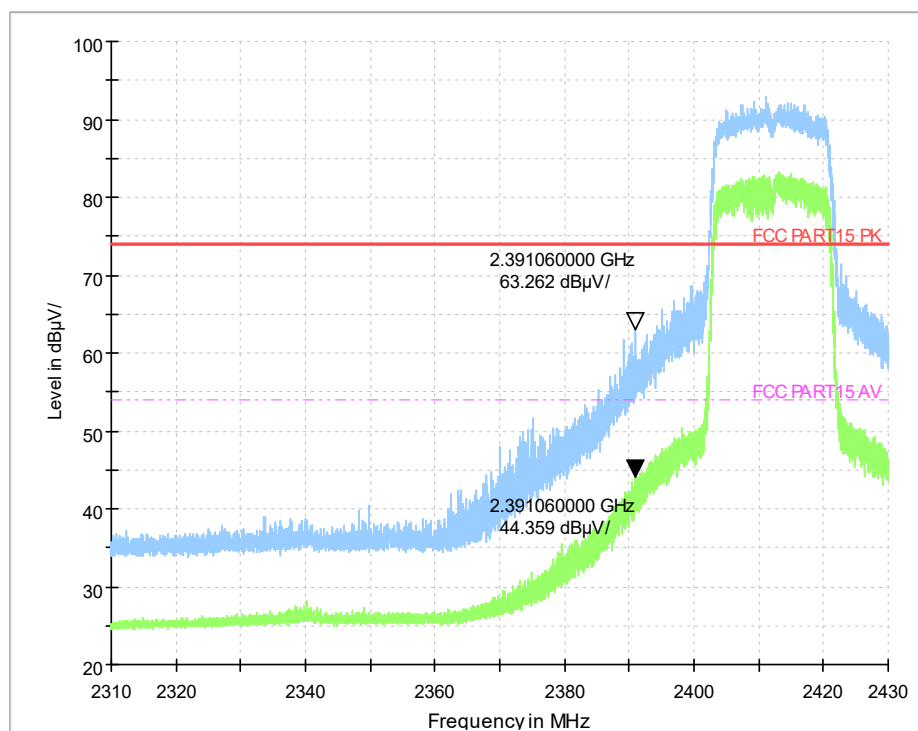


Fig.89 Frequency Band Edge: Ch1,11n(20M)

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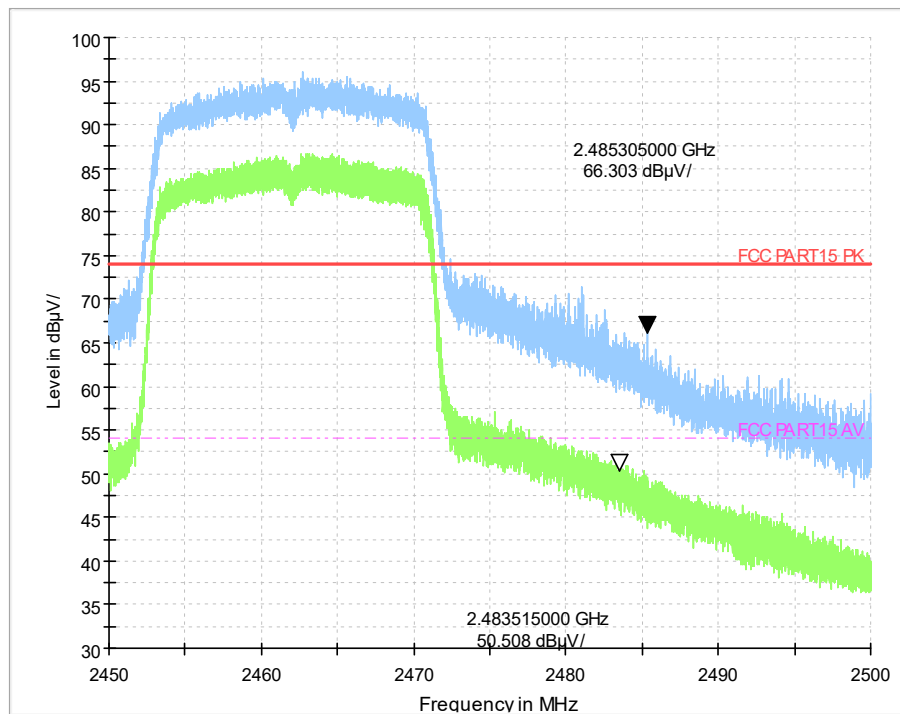


Fig.90 Frequency Band Edge: Ch11,11n(20M)

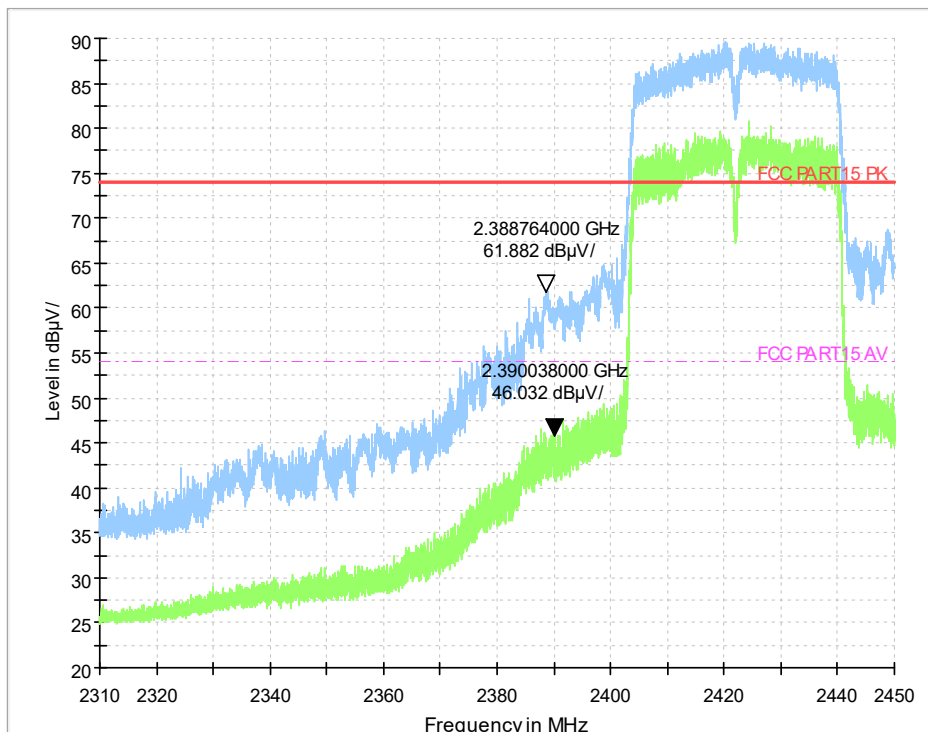


Fig.91 Frequency Band Edge: Ch3,11n(40M)

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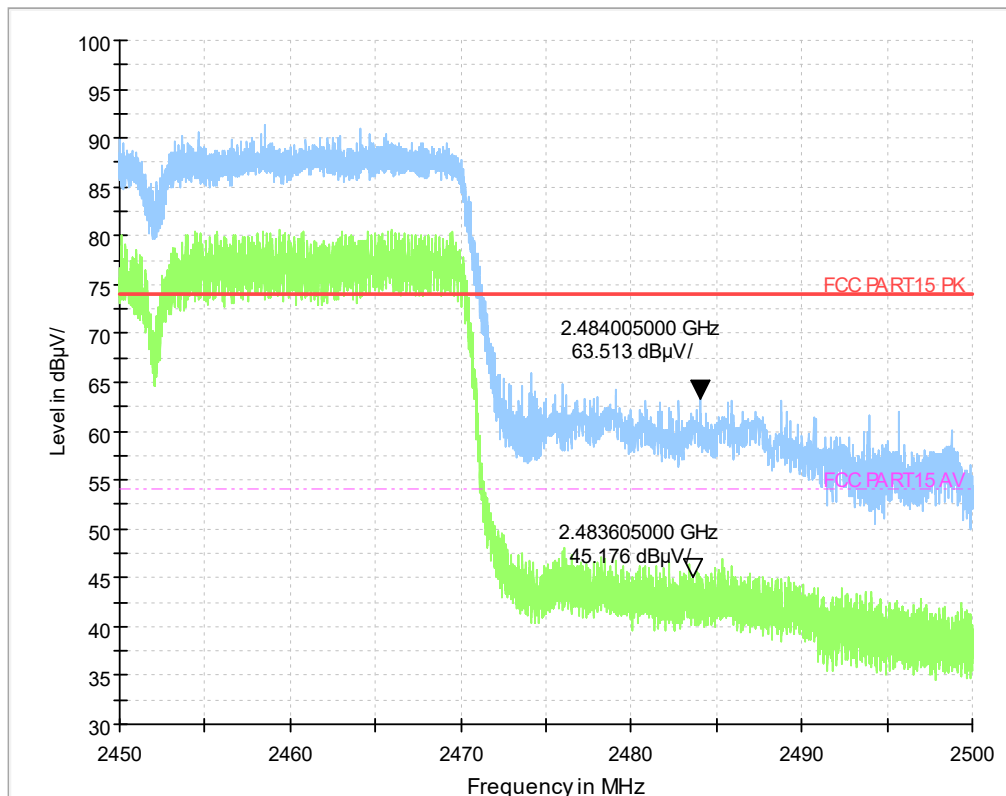


Fig.92 Frequency Band Edge: Ch9,11n(40M)

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5.5 Transmitter Spurious Emission-Conducted

Specifications:	FCC 47 CFR Part15.247 (d)
DUT Serial Number:	866884045647971
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

Standard	Limit
FCC 47 CFR Part15.247 (d)	20dB below peak output power in 100KHz bandwidth

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 26\text{GHz}$	± 2.7

Test Procedure

This measurement is according to ANSI C63.10 clause 11.11.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Enable EUT transmitter maximum power continuously.

Reference level measurement

3. Set instrument center frequency to DTS channel center frequency.
4. Set the span to ≥ 1.5 times the DTS bandwidth.
5. Set the RBW = 100 kHz.
6. Set the VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.
11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

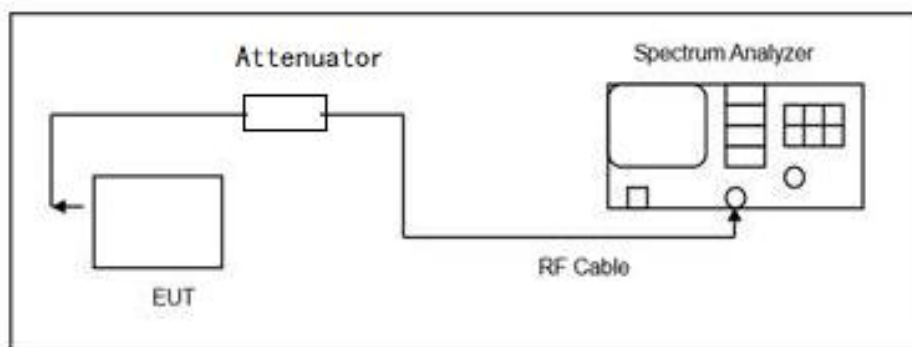
12. Set the center frequency and span to encompass frequency range to be measured.
13. Set the RBW = 100 kHz.
14. Set the VBW $\geq [3 \times \text{RBW}]$.
15. Detector = peak.
16. Sweep time = auto couple.
17. Trace mode = max hold.
18. Allow trace to fully stabilize.
19. Use the peak marker function to determine the maximum amplitude level.

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Test block diagram:



Test Result:

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412GHz	Fig.117	Pass
		30MHz~26GHz	Fig.118	Pass
	6	2.437GHz	Fig.119	Pass
		30MHz~26GHz	Fig.120	Pass
	11	2.462GHz	Fig.121	Pass
		30MHz~26GHz	Fig.122	Pass
802.11g	1	2.412GHz	Fig.123	Pass
		30MHz~26GHz	Fig.124	Pass
	6	2.437GHz	Fig.125	Pass
		30MHz~26GHz	Fig.126	Pass
	11	2.462GHz	Fig.127	Pass
		30MHz~26GHz	Fig.128	Pass

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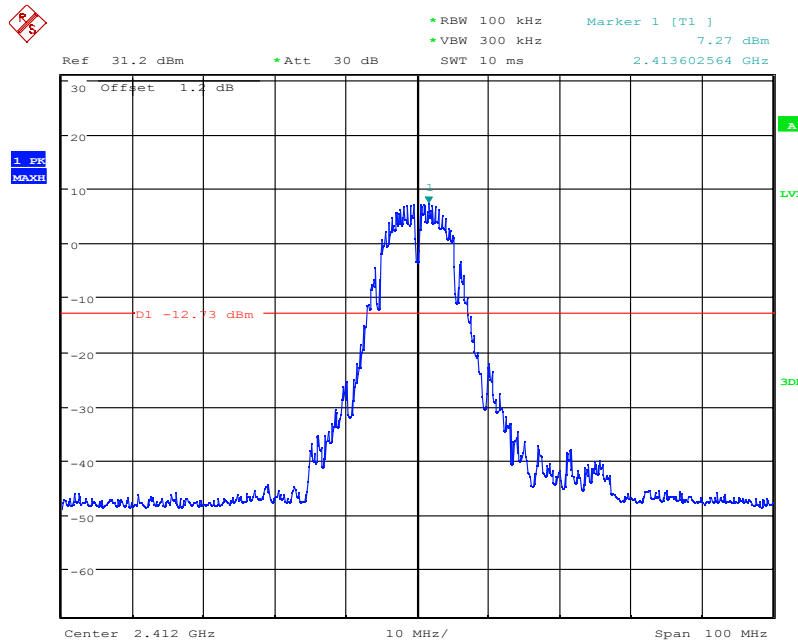
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802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	1	2.412GHz	Fig.129	Pass
		30MHz~26GHz	Fig.130	Pass
	6	2.437GHz	Fig.131	Pass
		30MHz~26GHz	Fig.132	Pass
	11	2.462GHz	Fig.133	Pass
		30MHz~26GHz	Fig.134	Pass
802.11n (40MHz)	3	2.422GHz	Fig.135	Pass
		30MHz~26GHz	Fig.136	Pass
	7	2.442GHz	Fig.137	Pass
		30MHz~26GHz	Fig.138	Pass
	9	2.462GHz	Fig.139	Pass
		30MHz~26GHz	Fig.140	Pass

Conclusion: PASS

Test figure as below:



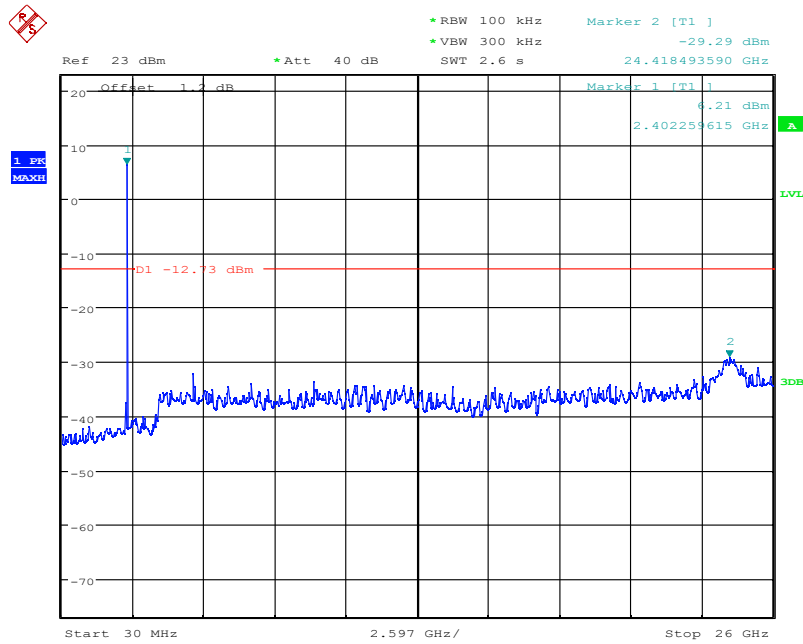
Date: 16.JUN.2021 22:41:27

Fig.93 Conducted spurious emission: Ch1,11b,2412MHz

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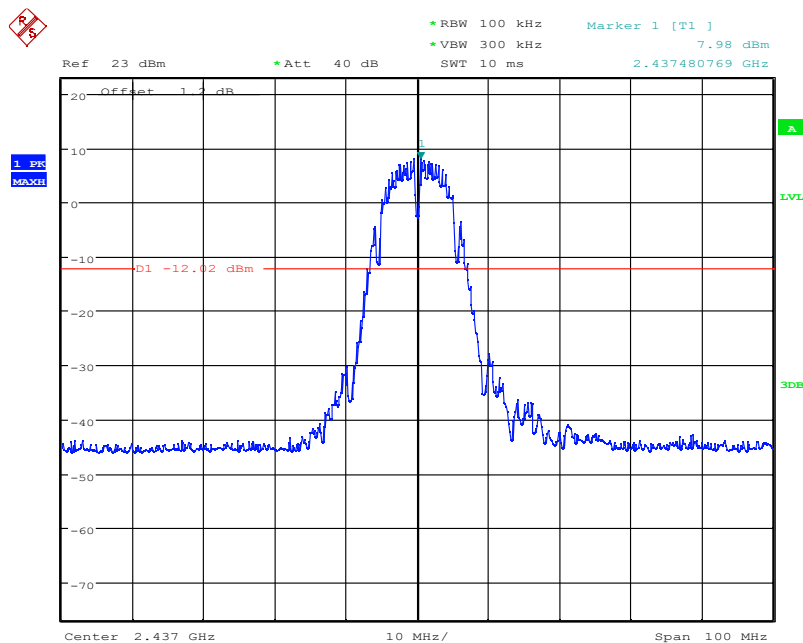
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Report No.:I21W00012-WLAN_Rev2



Date: 16.JUN.2021 22:43:34

Fig.94 Conducted spurious emission: Ch1,11b,30MHz~26GHz



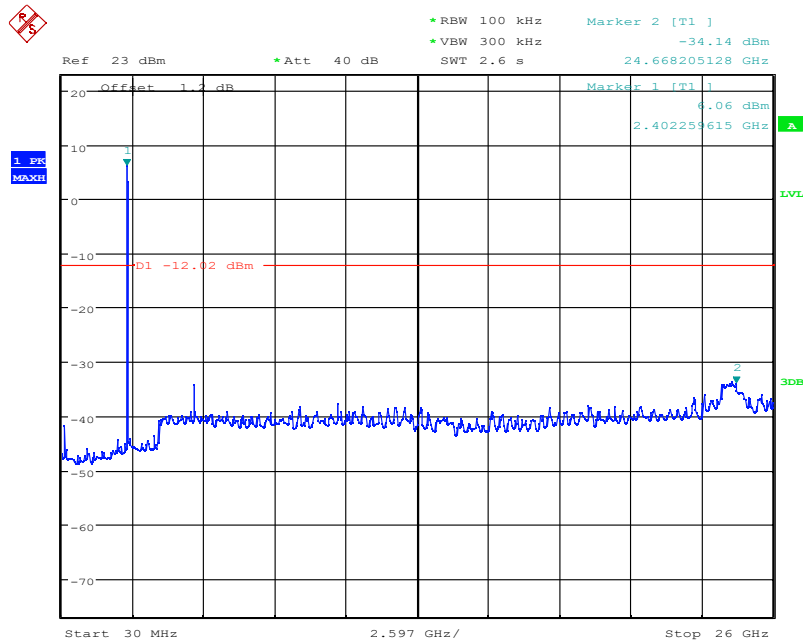
Date: 16.JUN.2021 22:45:08

Fig.95 Conducted spurious emission: Ch6,11b,2437MHz

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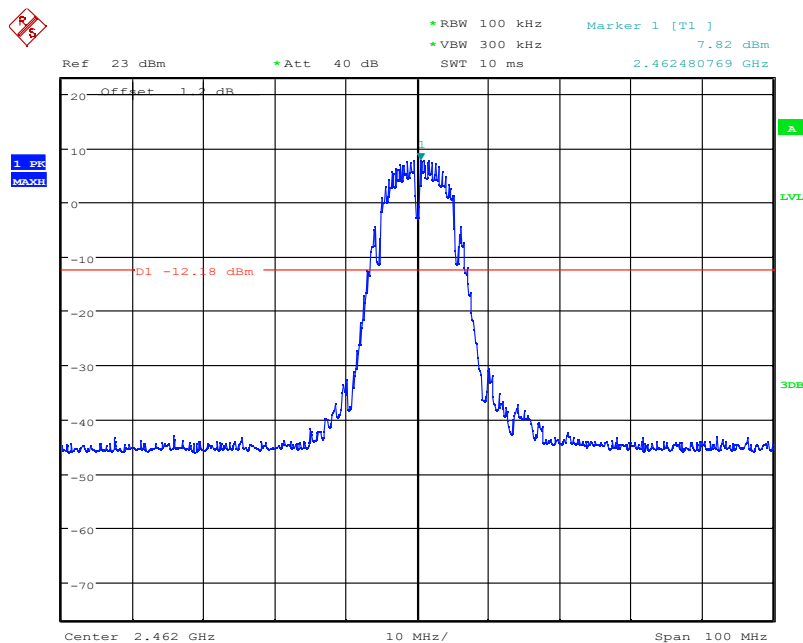
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Date: 16.JUN.2021 22:45:33

Fig.96 Conducted spurious emission: Ch6,11b,30MHz~26GHz



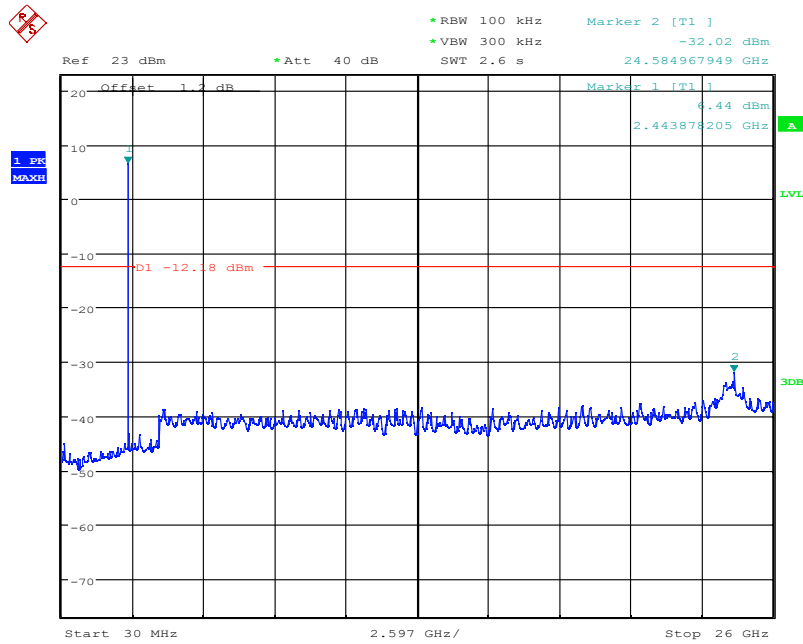
Date: 16.JUN.2021 22:47:15

Fig.97 Conducted spurious emission: Ch11,11b,2462MHz

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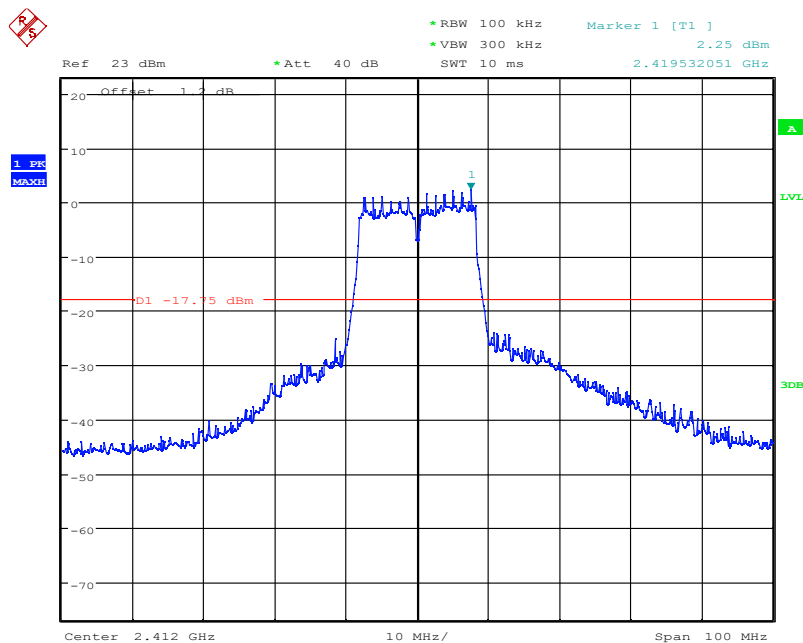
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Date: 16.JUN.2021 22:47:34

Fig.98 Conducted spurious emission: Ch11b,30MHz~26GHz



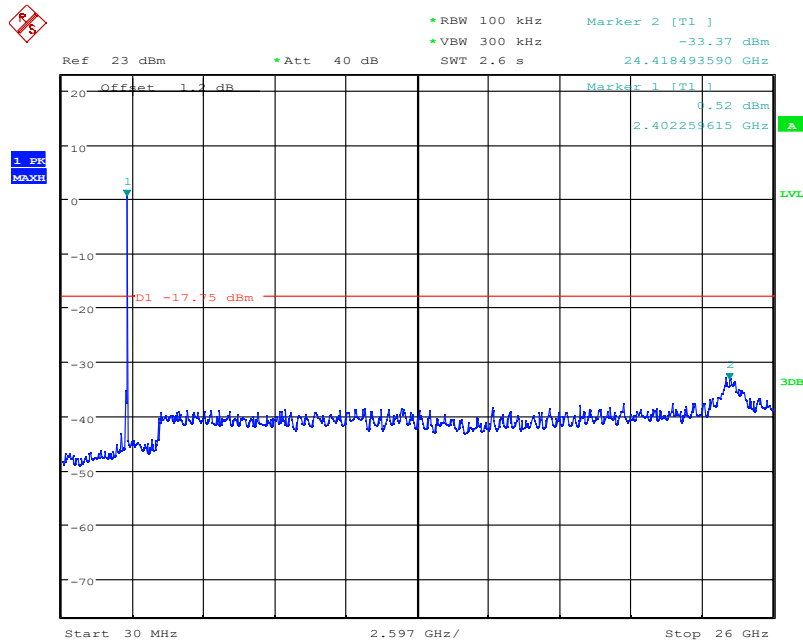
Date: 16.JUN.2021 22:49:07

Fig.99 Conducted spurious emission: Ch1,11g,2412MHz

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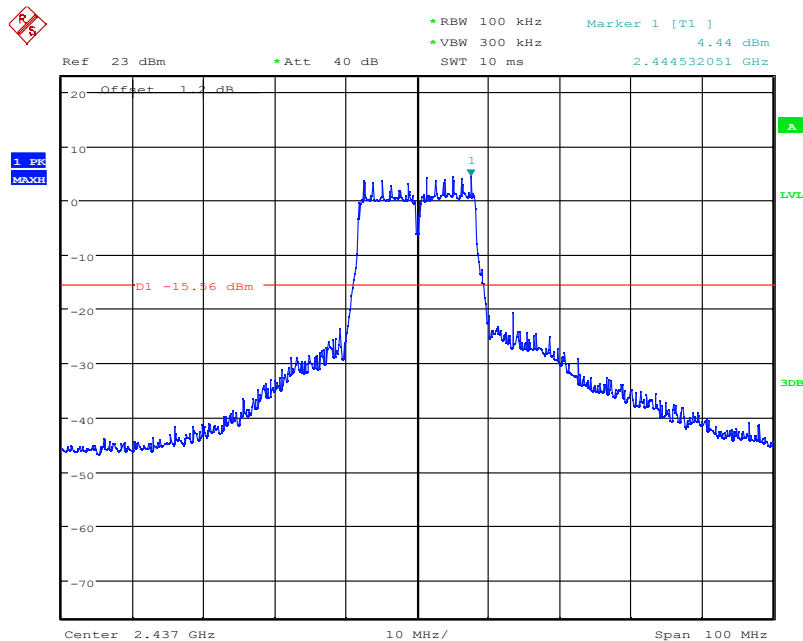
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Date: 16.JUN.2021 22:49:32

Fig.100 Conducted spurious emission: Ch1,11g,30MHz~26GHz



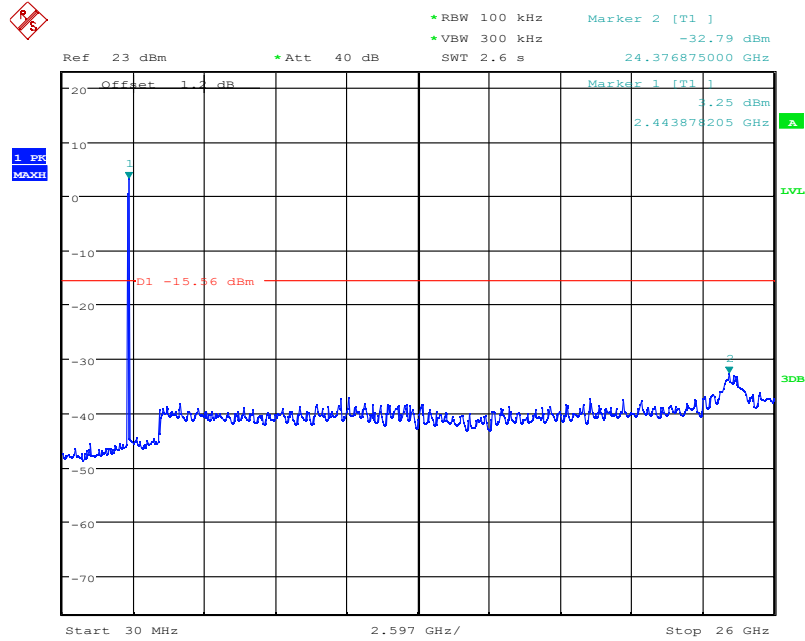
Date: 16.JUN.2021 22:51:01

Fig.101 Conducted spurious emission: Ch6,11g,2437MHz

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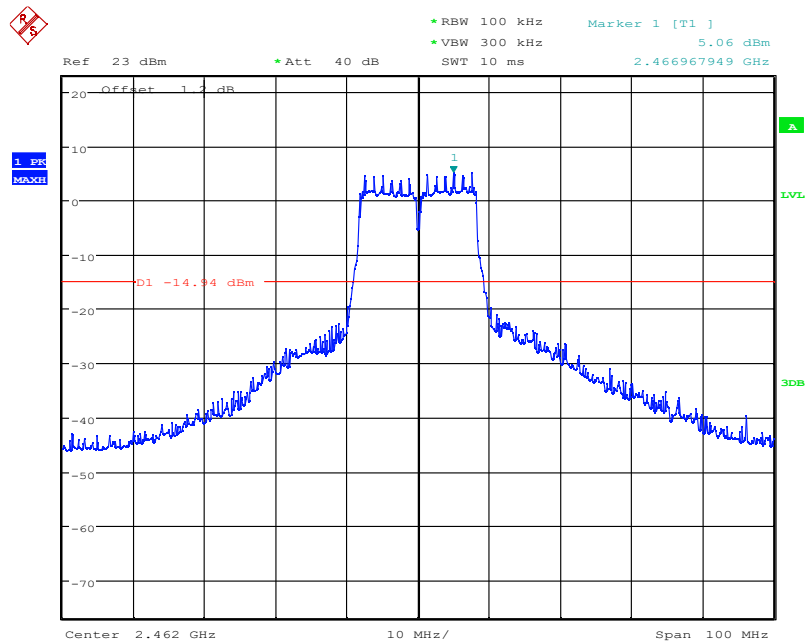
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Report No.:I21W00012-WLAN_Rev2



Date: 16.JUN.2021 22:51:43

Fig.102 Conducted spurious emission: Ch6,11g,30MHz~26GHz



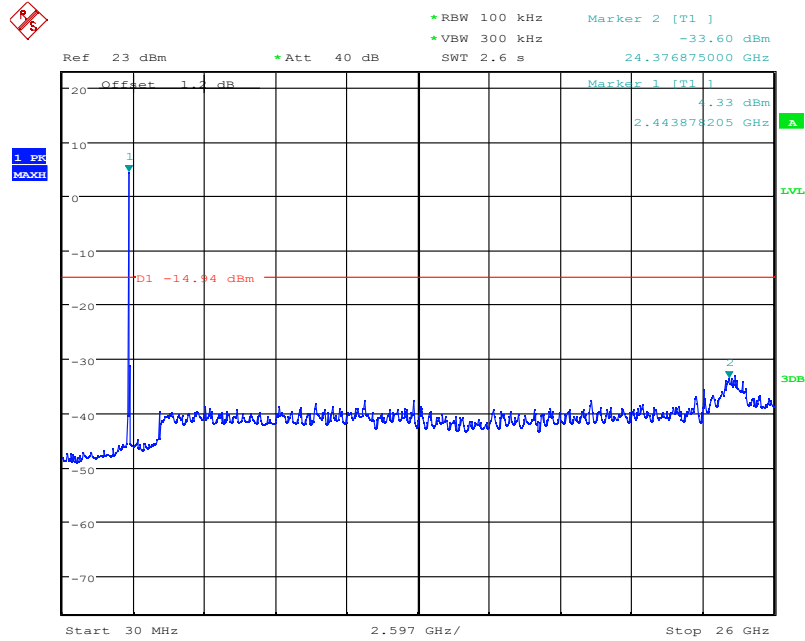
Date: 16.JUN.2021 22:52:42

Fig.103 Conducted spurious emission: Ch11,11g,2462MHz

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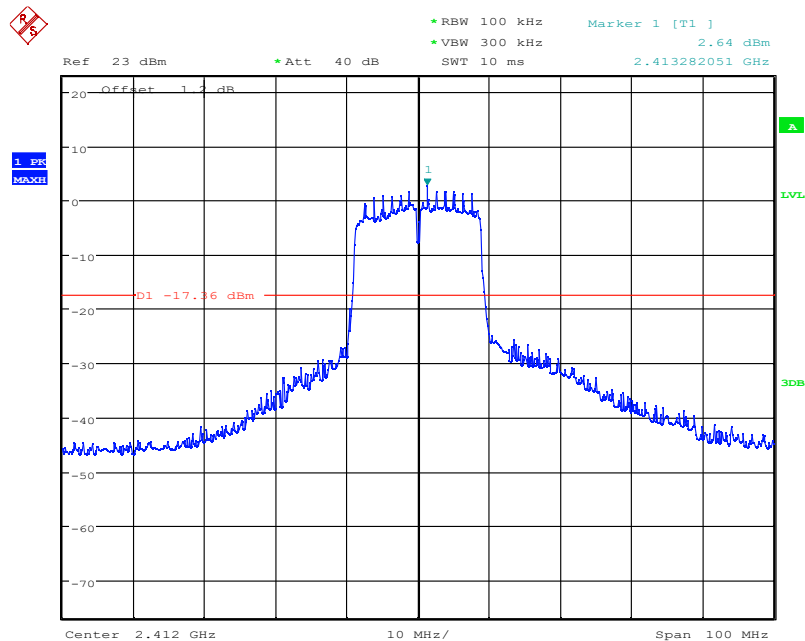
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Report No.:I21W00012-WLAN_Rev2



Date: 16.JUN.2021 22:53:00

Fig.104 Conducted spurious emission: Ch11,11g,30MHz~26GHz



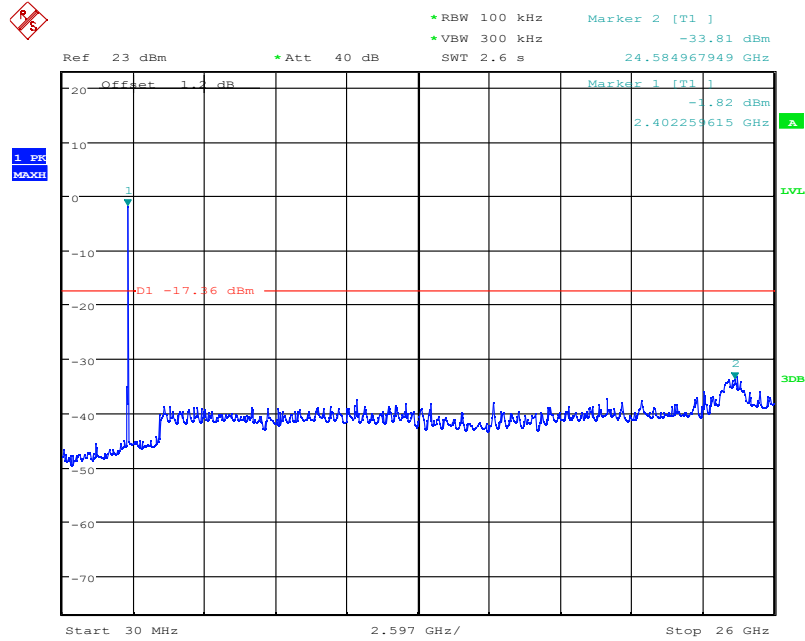
Date: 16.JUN.2021 22:53:52

Fig.105 Conducted spurious emission: Ch1,11n,2412MHz

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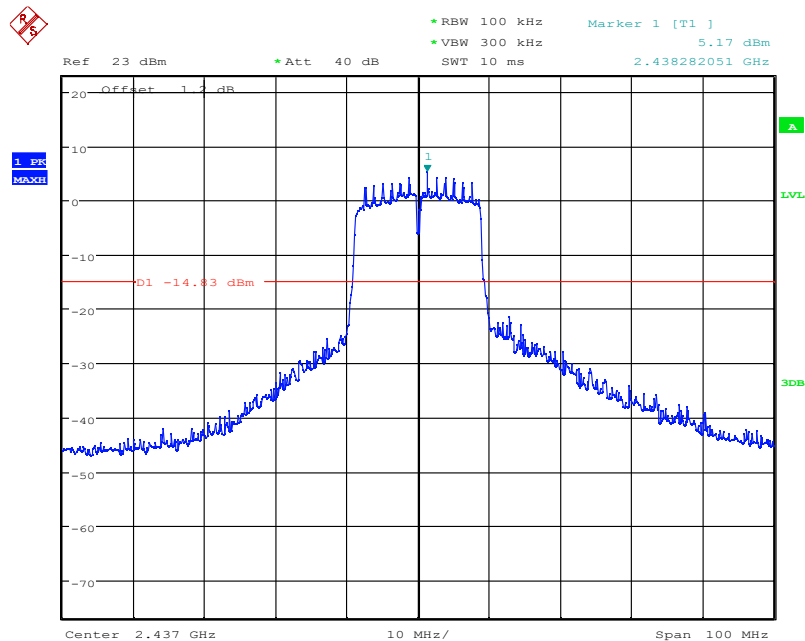
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Date: 16.JUN.2021 22:54:11

Fig.106 Conducted spurious emission: Ch1,11n,30MHz~26GHz



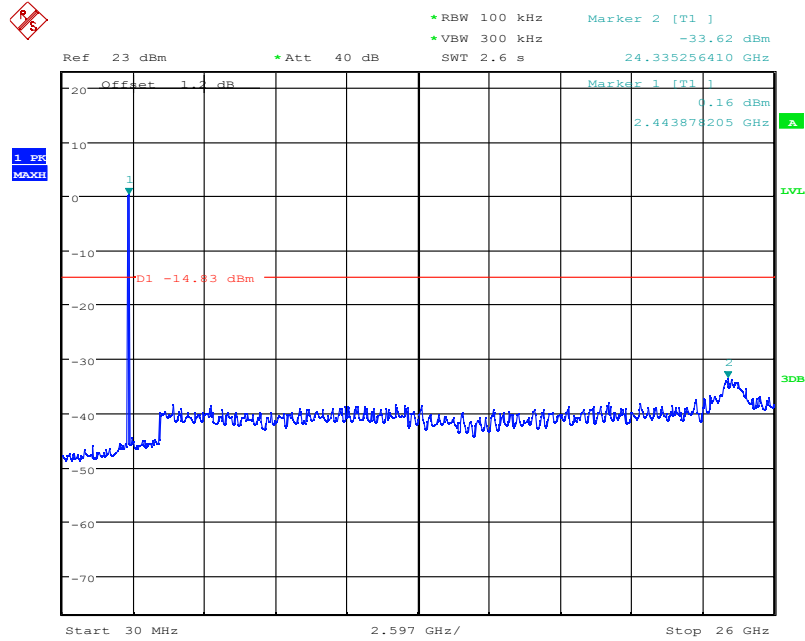
Date: 16.JUN.2021 22:54:53

Fig.107 Conducted spurious emission: Ch6,11n,2437MHz

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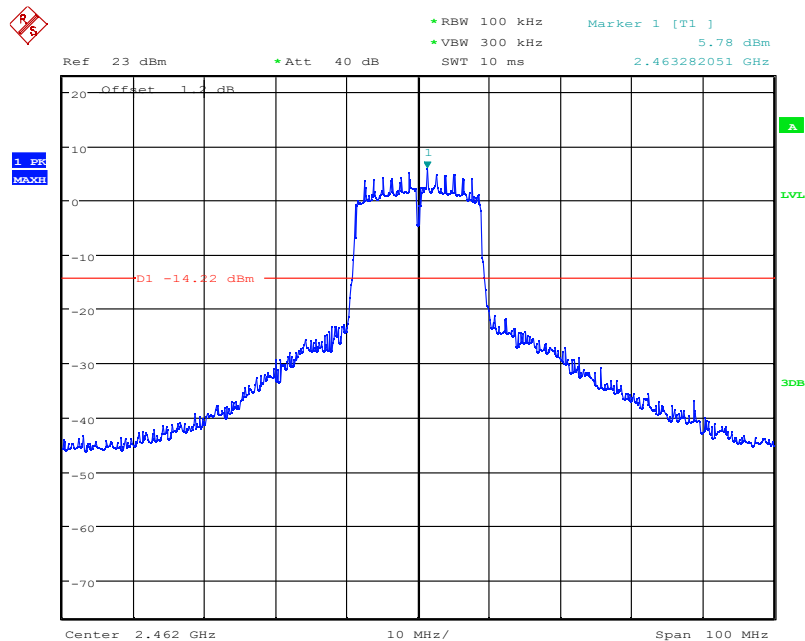
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Date: 16.JUN.2021 22:55:19

Fig.108 Conducted spurious emission: Ch6,11n,30MHz~26GHz



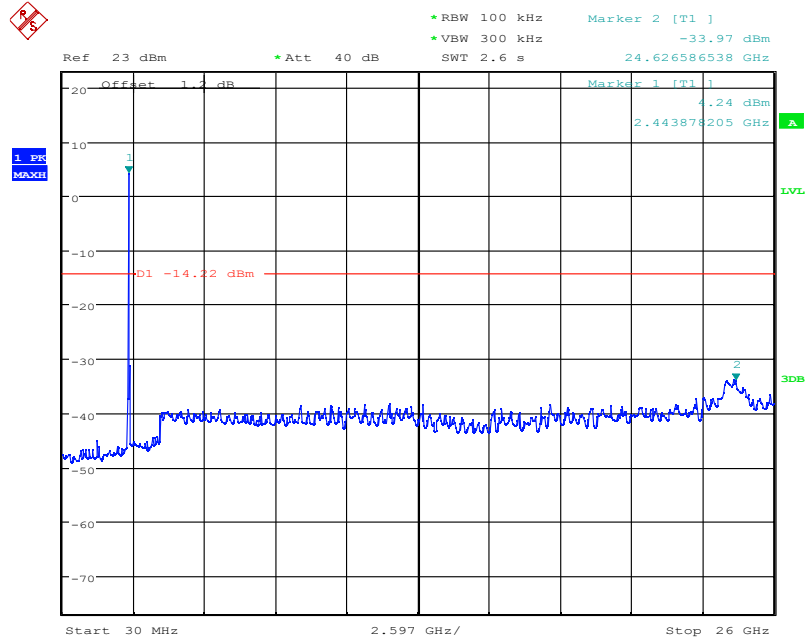
Date: 16.JUN.2021 22:56:13

Fig.109 Conducted spurious emission: Ch11,11n,2462MHz

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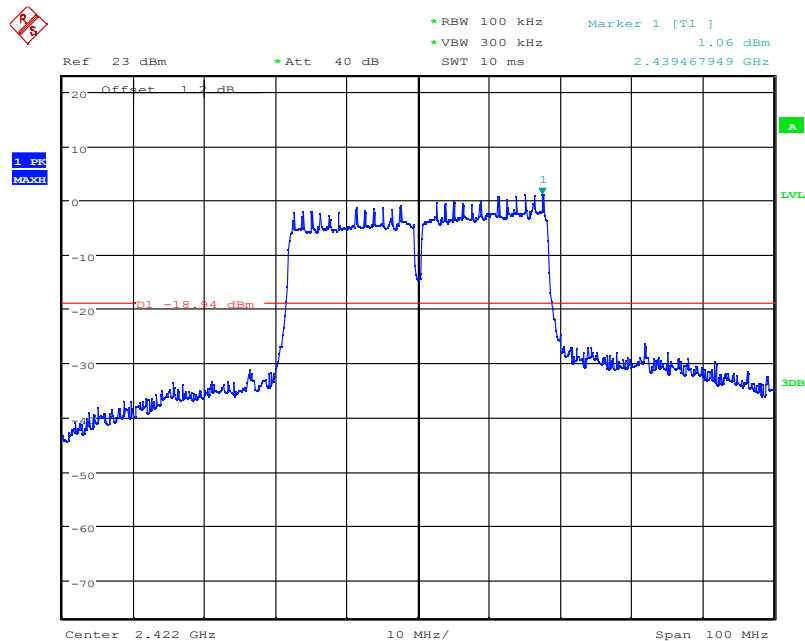
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Report No.:I21W00012-WLAN_Rev2



Date: 16.JUN.2021 22:56:31

Fig.110 Conducted spurious emission: Ch1,11n,30MHz~26GHz



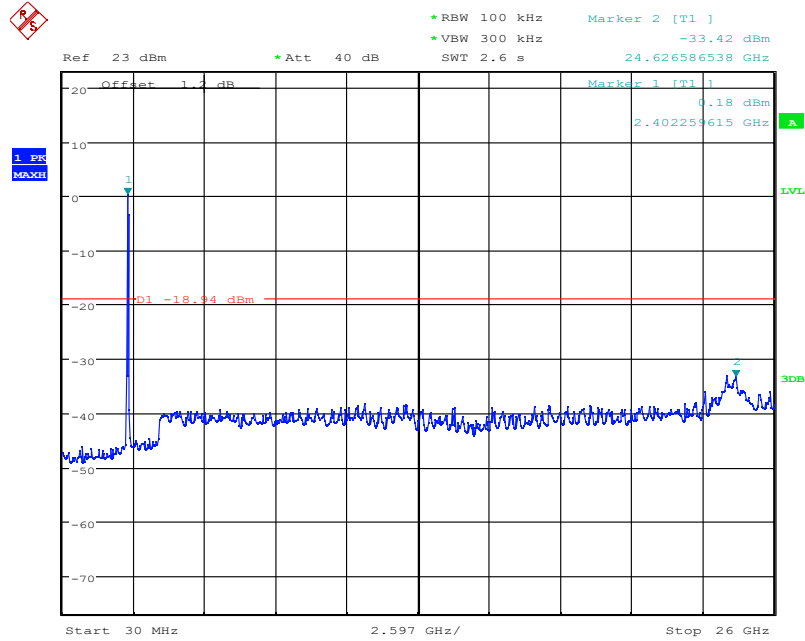
Date: 16.JUN.2021 22:57:52

Fig.111 Conducted spurious emission: Ch3,11n(40M),2422MHz

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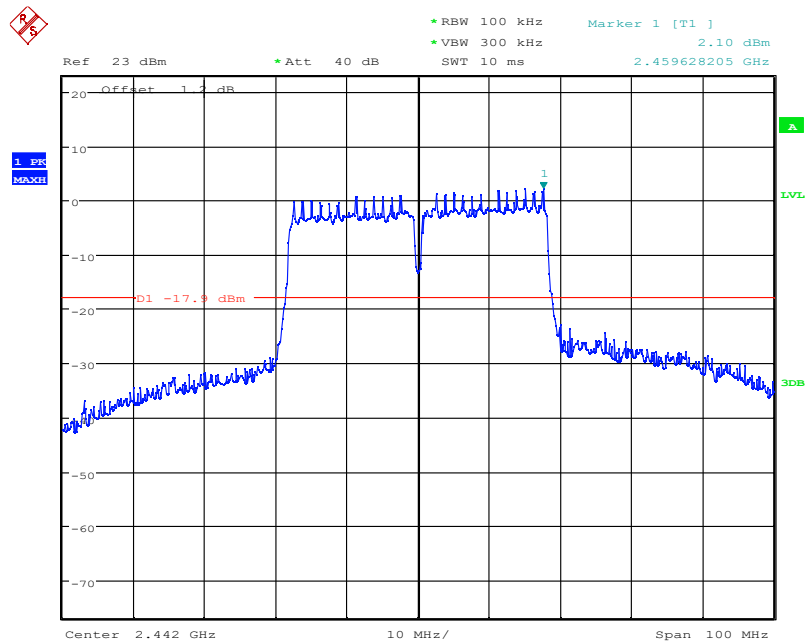
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Report No.:I21W00012-WLAN_Rev2



Date: 16.JUN.2021 22:58:14

Fig.112 Conducted spurious emission: Ch3,11n(40M),30MHz~26GHz



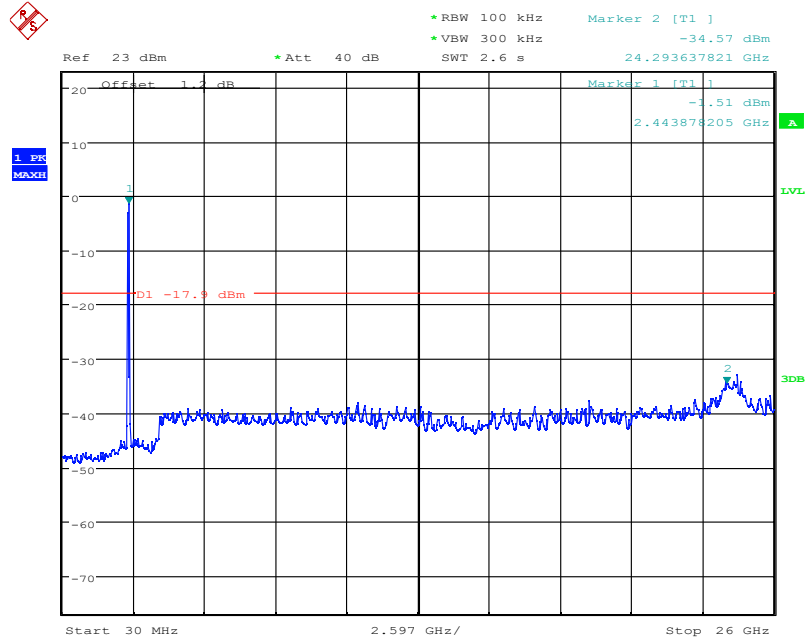
Date: 16.JUN.2021 22:59:08

Fig.113 Conducted spurious emission: Ch7,11n(40M),2442MHz

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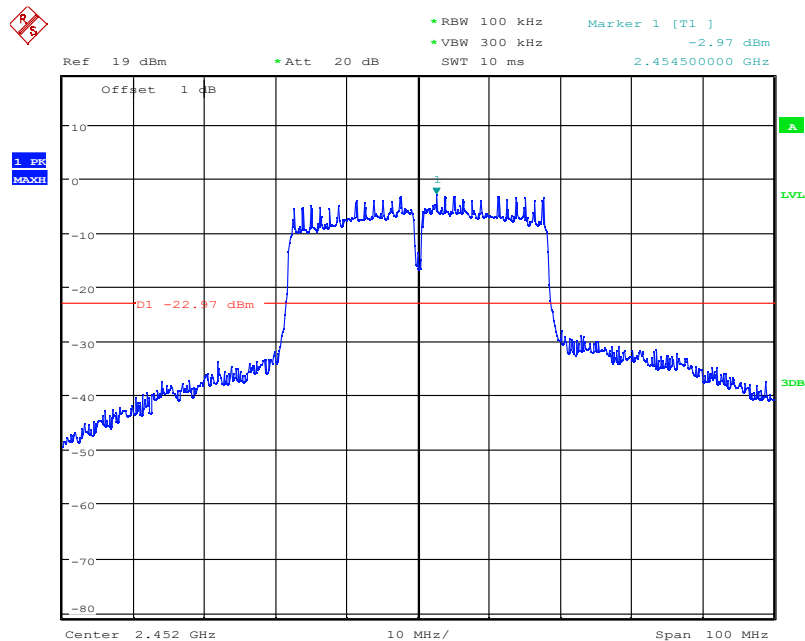
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Report No.:I21W00012-WLAN_Rev2



Date: 16.JUN.2021 22:59:25

Fig.114 Conducted spurious emission: Ch7,11n(40M),30MHz~26GHz



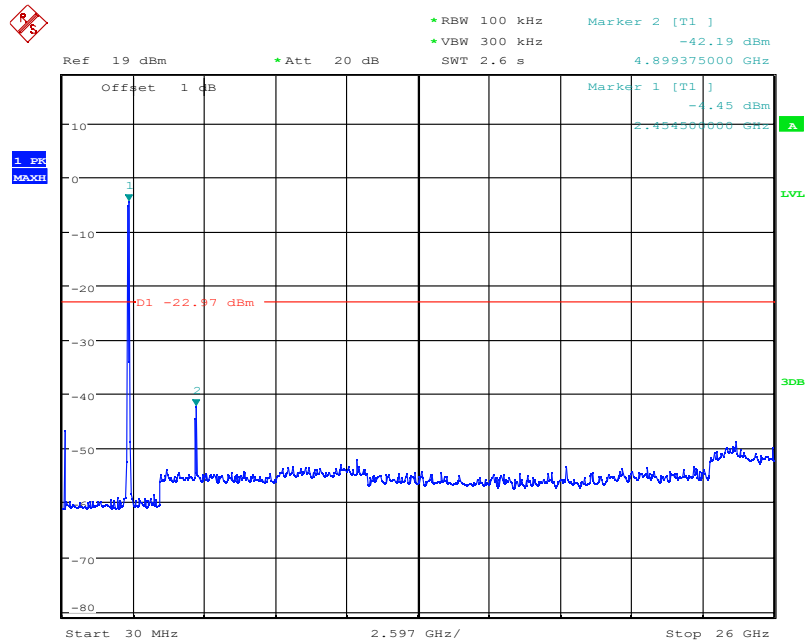
Date: 25.JUN.2021 13:58:43

Fig.115 Conducted spurious emission: Ch9,11n(40M),2452MHz

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Date: 25.JUN.2021 13:59:17

Fig.116 Conducted spurious emission: Ch9,11n(40M),30MHz~26GHz

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5.6 Transmitter Spurious Emission-Radiated

Specifications:	FCC 47 CFR Part 15.247, 15.205, 15.209
DUT Serial Number:	866884045648193
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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)).

Measurement Uncertainty:

Frequency Range	Uncertainty
$30\text{MHz} \leq f \leq 2\text{GHz}$	± 1.13
$2\text{GHz} \leq f \leq 3.6\text{GHz}$	± 1.16
$3.6\text{GHz} \leq f \leq 8\text{GHz}$	± 2.45
$8\text{GHz} \leq f \leq 12.75\text{GHz}$	± 2.99

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)
30~88	100	40
88~216	150	43.5
216~960	200	46
Above 960	500	54

Test Procedure

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs.

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For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/1MHz	15
4000~18000	1MHz/1MHz	40
18000~26500	1MHz/1MHz	20

Test Result:

A “reference path loss” is established and AR_{pi} is the attenuation of “reference path loss”, and including the gain of receive antenna , the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

AR_{pi}= Cable loss + Antenna Gain-Preamplifier gain

Result=PM_{ea} + AR_{pi}

Channel	Frequency Range	Test Results	Conclusion
802.11n (20M) Ch11 (worst case)	30MHz-1GHz	Fig.141	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11b Ch1	1GHz-3GHz	Fig.142	Pass
	3GHz-18GHz	Fig.143	Pass

Channel	Frequency Range	Test Results	Conclusion
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802.11b Ch6	1GHz-3GHz	Fig.144	Pass
	3GHz-18GHz	Fig.145	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11b Ch11	1GHz-3GHz	Fig.146	Pass
	3GHz-18GHz	Fig.147	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11g Ch1	1GHz-3GHz	Fig.148	Pass
	3GHz-18GHz	Fig.149	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11g Ch6	1GHz-3GHz	Fig.150	Pass
	3GHz-18GHz	Fig.151	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11g Ch11	1GHz-3GHz	Fig.152	Pass
	3GHz-18GHz	Fig.153	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11n(20M) Ch1	1GHz-3GHz	Fig.154	Pass
	3GHz-18GHz	Fig.155	Pass

Channel	Frequency Range	Test Results	Conclusion
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802.11n(20M) Ch6	1GHz-3GHz	Fig.156	Pass
	3GHz-18GHz	Fig.157	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11n(20M) Ch11	1GHz-3GHz	Fig.158	Pass
	3GHz-18GHz	Fig.159	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11n(40M) Ch3	1GHz-3GHz	Fig.160	Pass
	3GHz-18GHz	Fig.161	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11n(40M) Ch6	1GHz-3GHz	Fig.162	Pass
	3GHz-18GHz	Fig.163	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11n(40M) Ch9	1GHz-3GHz	Fig.164	Pass
	3GHz-18GHz	Fig.165	Pass

Channel	Frequency Range	Test Results	Conclusion
802.11n(20M) Ch11 (worst case)	18GHz-26.5GHz	Fig.166	Pass

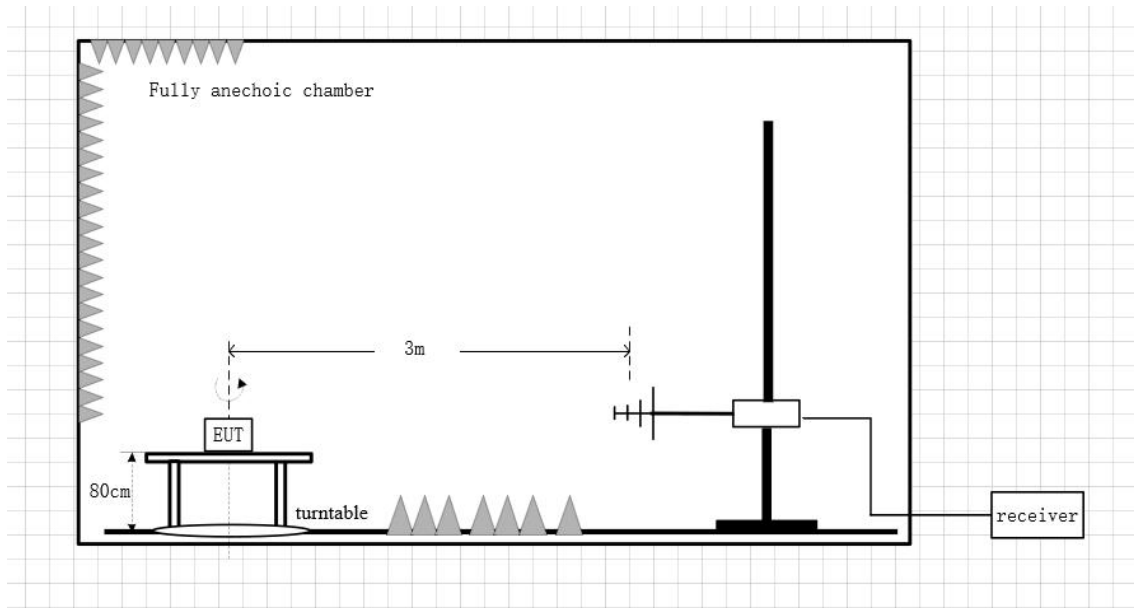
Note: all the test data shown was peak detected.

Test block diagram:

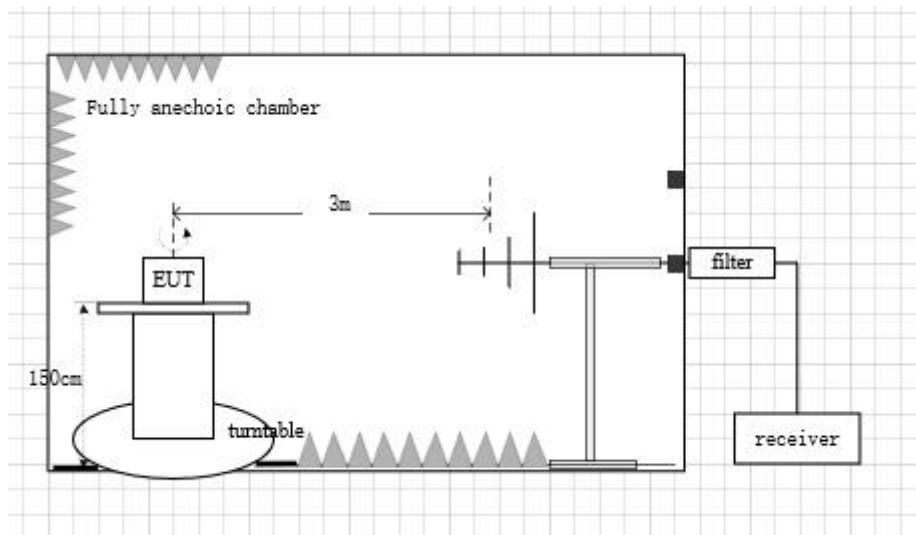
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30MHz-1GHz



Above 1GHz

Note:

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement - X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

EUT is placed horizontally, Transmitter Spurious Emission-Radiated H and V are tested together.,The test is maximum hold. Therefore, the result is only one set of data. Found the emission level are attenuated 20dB below the limits for frequency range 9kHz to 30MHz, so it does not recorded in report.

Conclusion: PASS

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Test graphs as below:

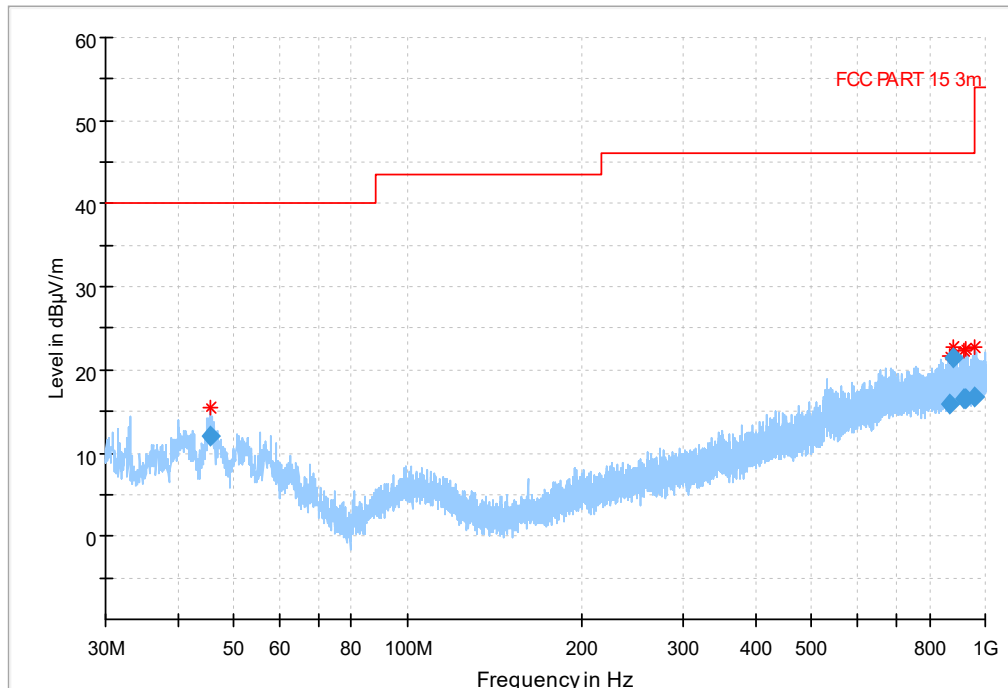


Fig.117 Radiated emission: 802.11b Ch11, 30MHz-1GHz

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
45.568500	12.09	40.00	27.91	117.0	H	235.0	-18.3
868.271500	15.85	47.00	31.15	310.0	H	135.0	-7.3
879.551500	21.57	47.00	25.43	186.0	V	112.0	-7.0
921.174000	16.63	47.00	30.37	105.0	H	126.0	-6.6
922.597500	16.51	47.00	30.49	132.0	V	-27.0	-6.5
958.948500	16.69	47.00	30.31	143.0	H	133.0	-6.4

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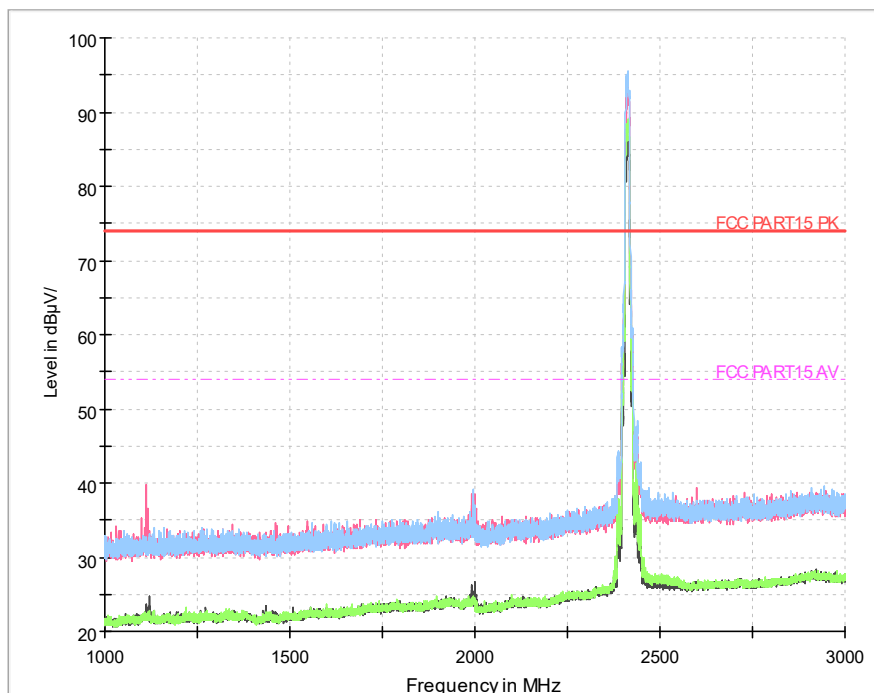


Fig.118 Radiated emission: 802.11b Ch1, 1GHz-3GHz

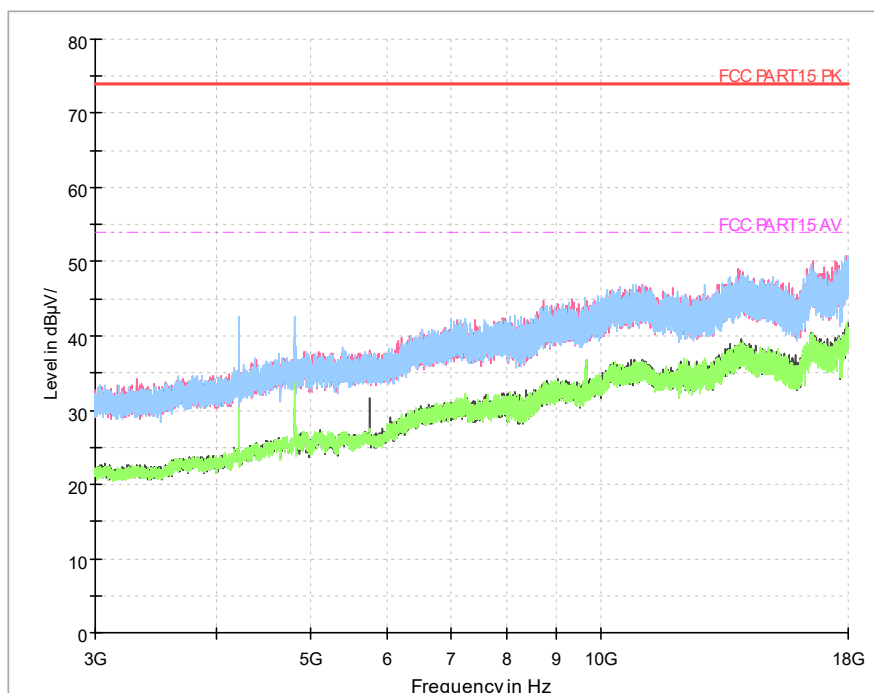


Fig.119 Radiated emission: 802.11b Ch1, 3GHz-18GHz

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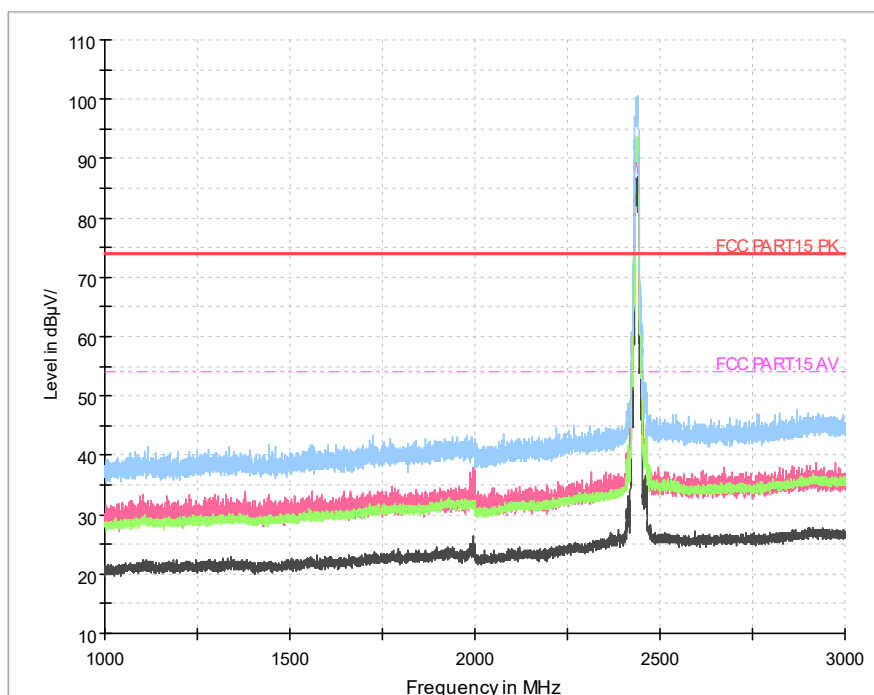


Fig.120 Radiated emission:802.11b Ch6, 1GHz-3GHz

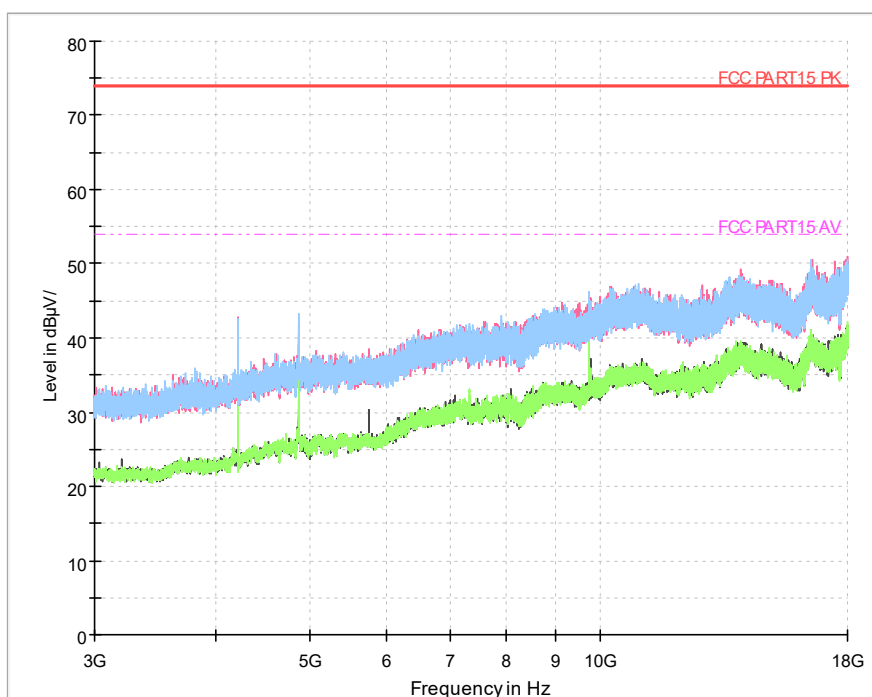


Fig.121 Radiated emission:802.11b Ch6, 3GHz-18GHz

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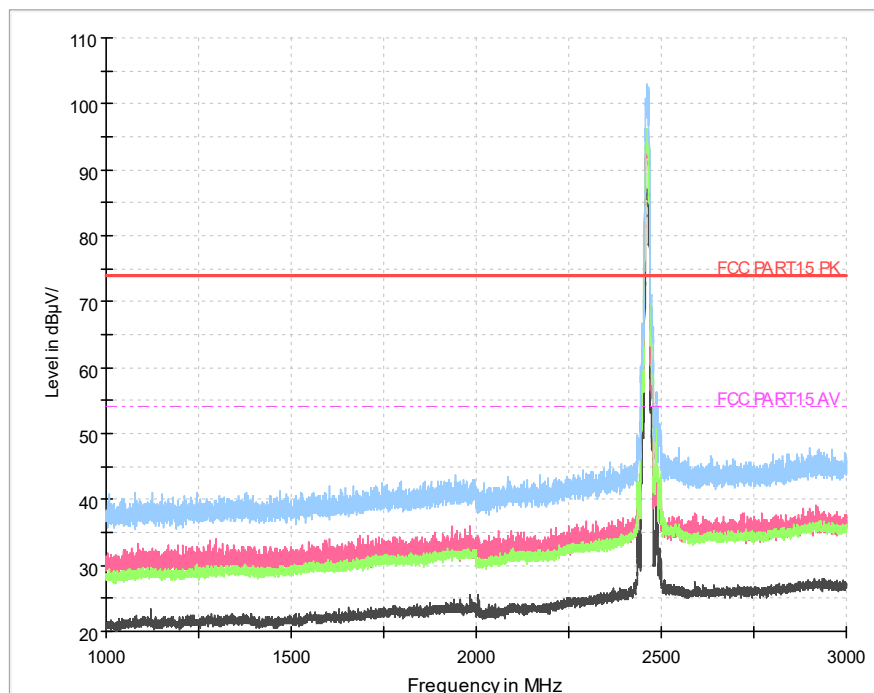


Fig.122 Radiated emission: 802.11b Ch11, 1GHz-3GHz

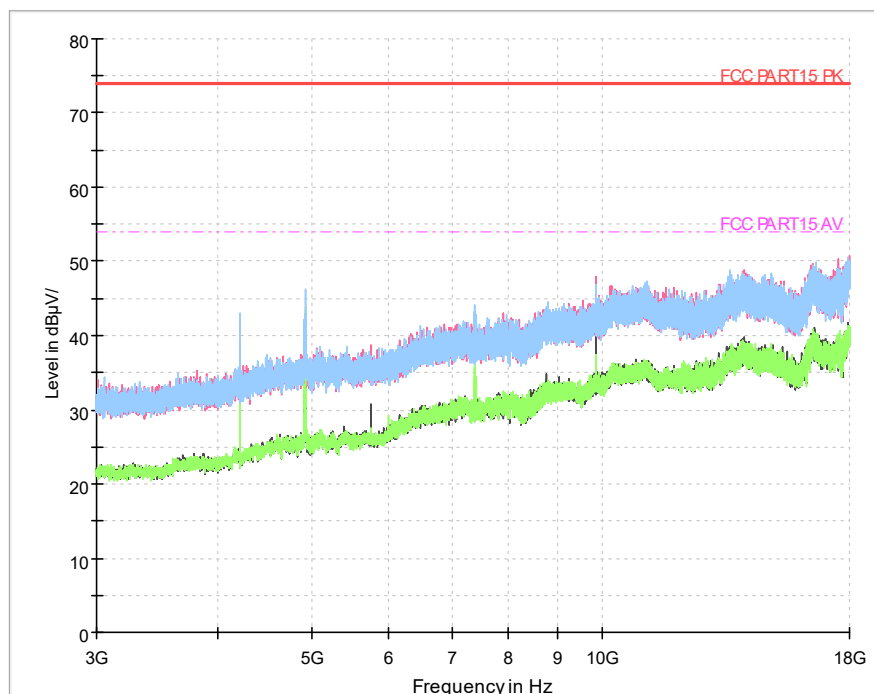


Fig.123 Radiated emission: 802.11b Ch11, 3GHz-18GHz

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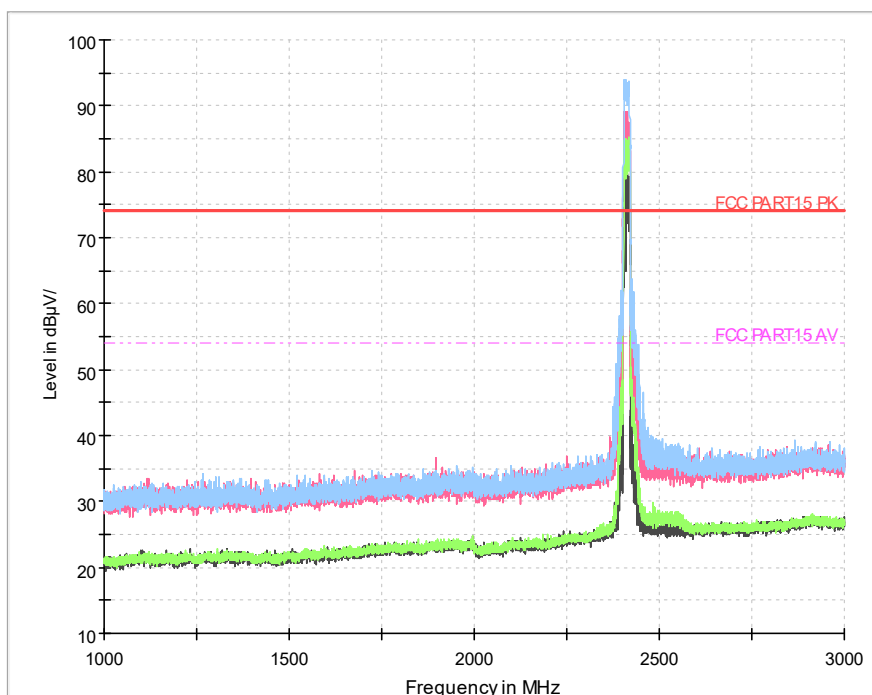


Fig.124 Radiated emission: 802.11g Ch1, 1GHz-3GHz

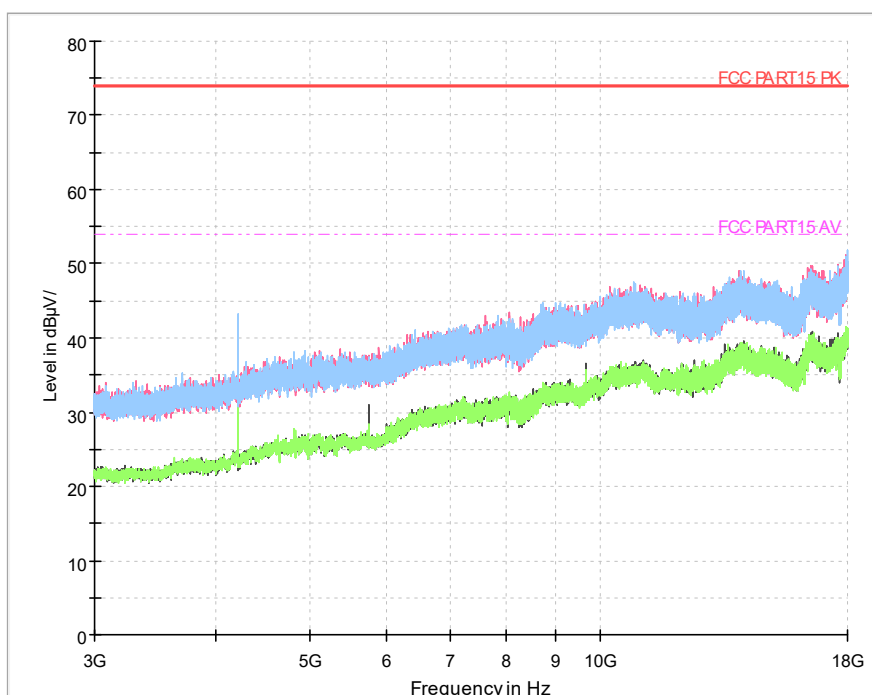


Fig.125 Radiated emission: 802.11g Ch1, 3GHz-18GHz

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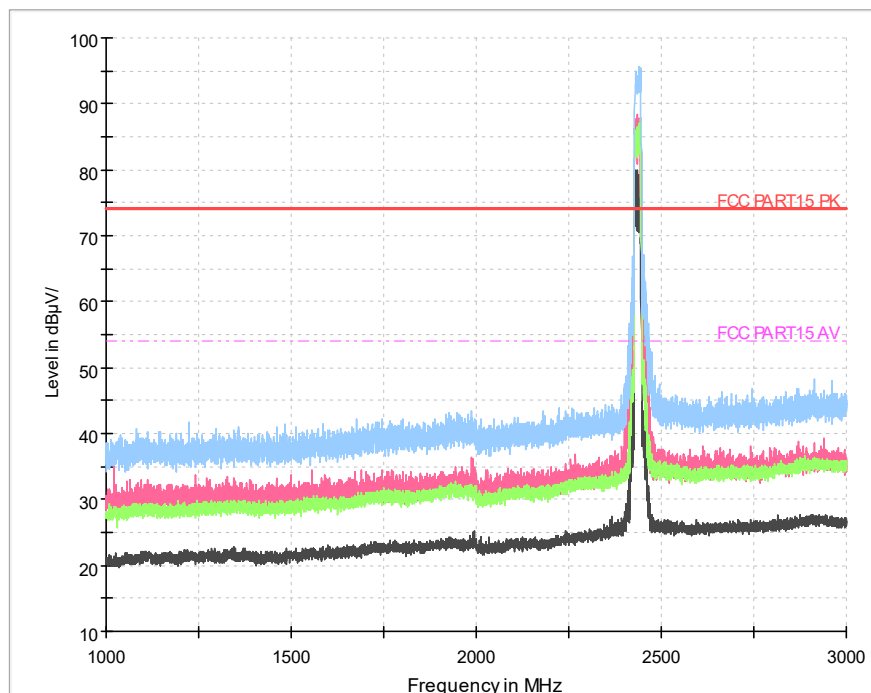


Fig.126 Radiated emission: 802.11g Ch6, 1GHz-3GHz

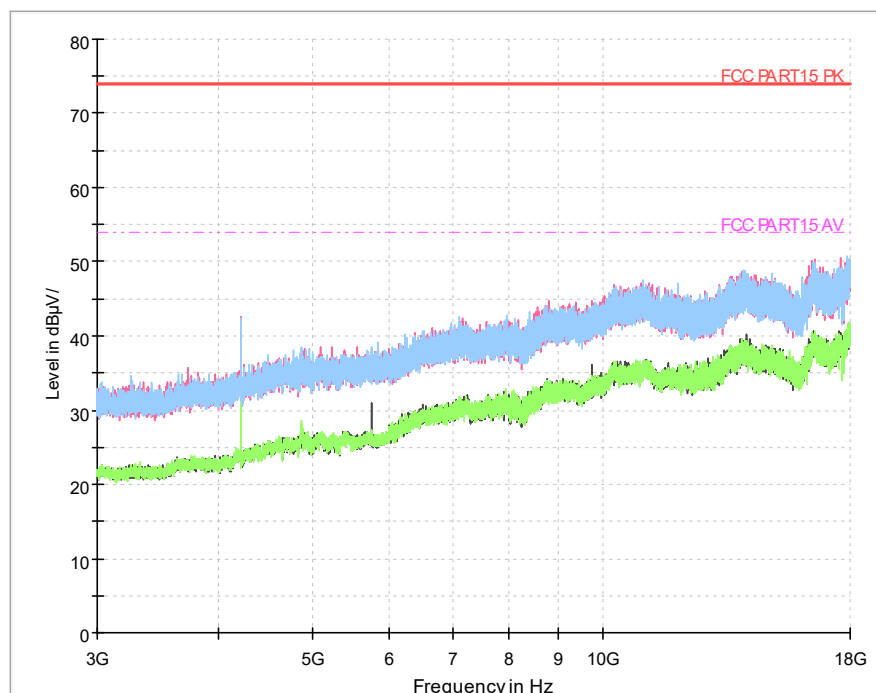


Fig.127 Radiated emission: 802.11g Ch6, 3GHz-18GHz

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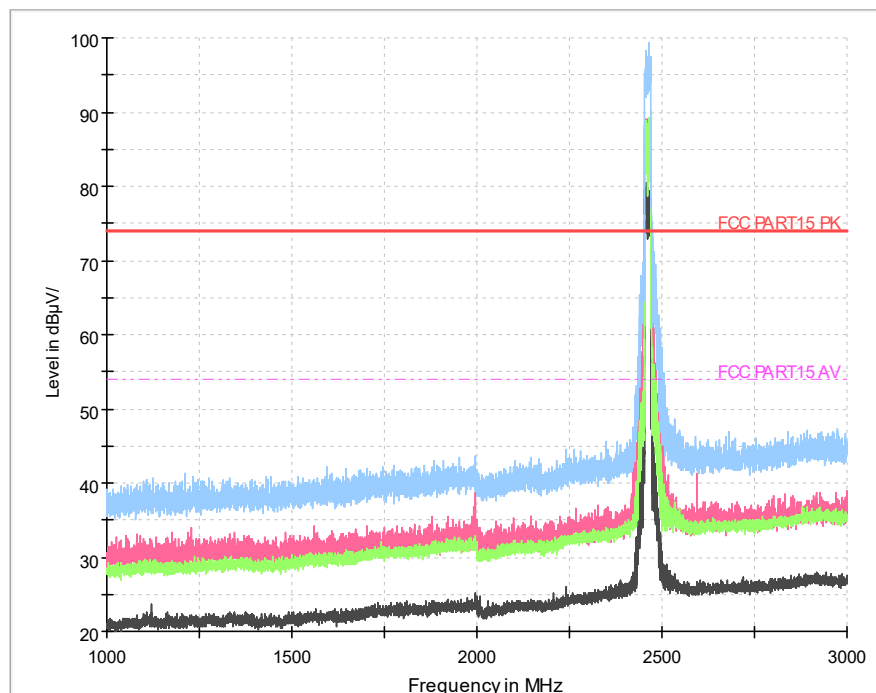


Fig.128 Radiated emission: 802.11g Ch11, 1GHz-3GHz

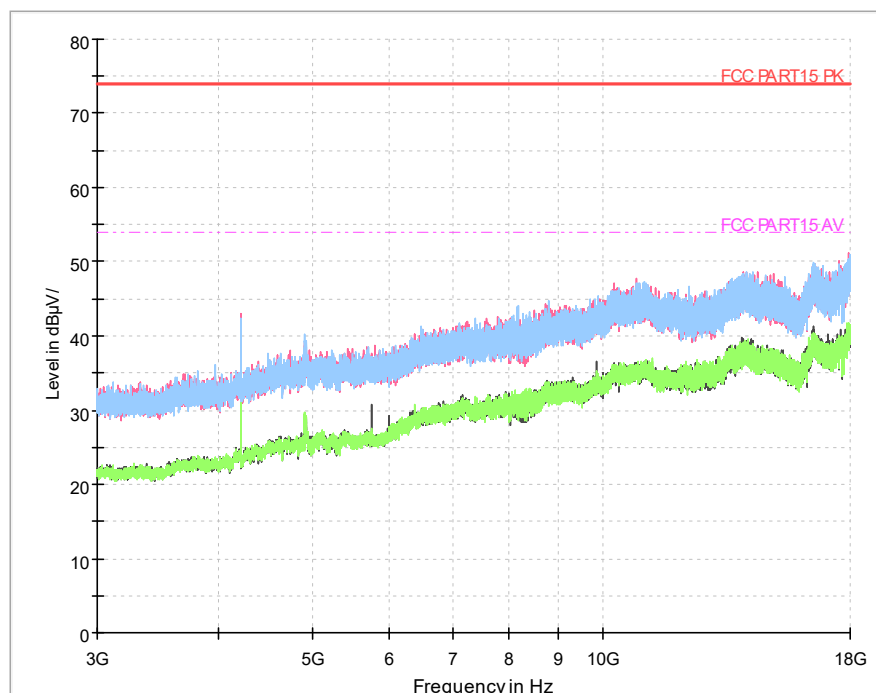


Fig.129 Radiated emission: 802.11g Ch11, 3GHz-18GHz

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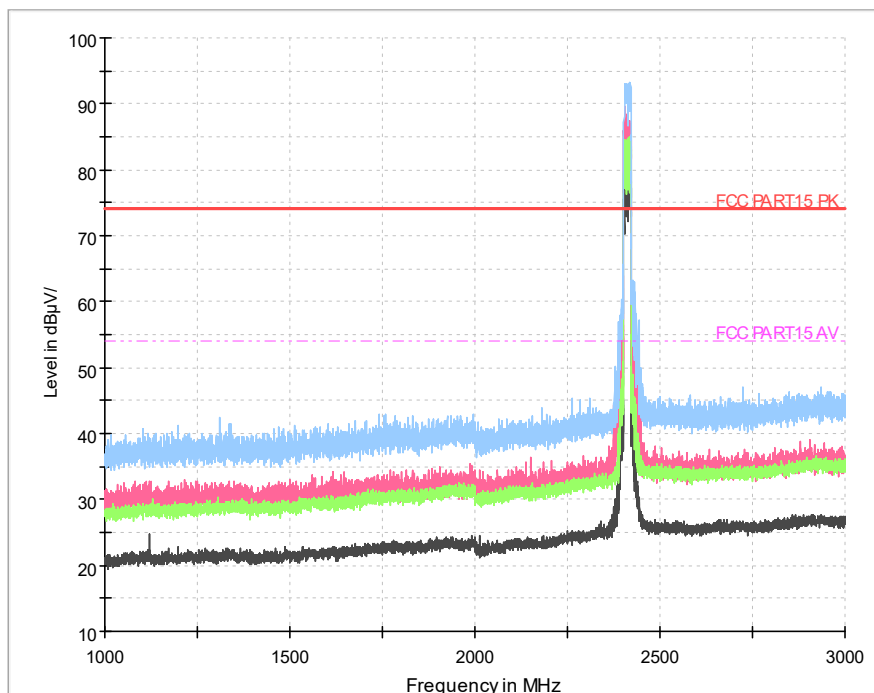


Fig.130 Radiated emission: 802.11n(20M) Ch1, 1GHz-3GHz

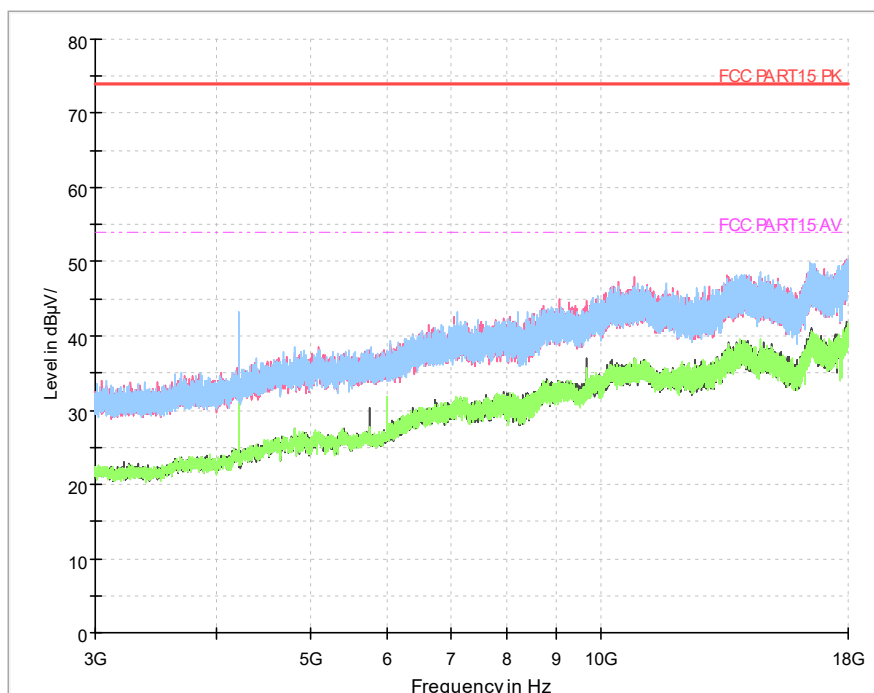


Fig.131 Radiated emission: 802.11n(20M) Ch1, 3GHz-18GHz

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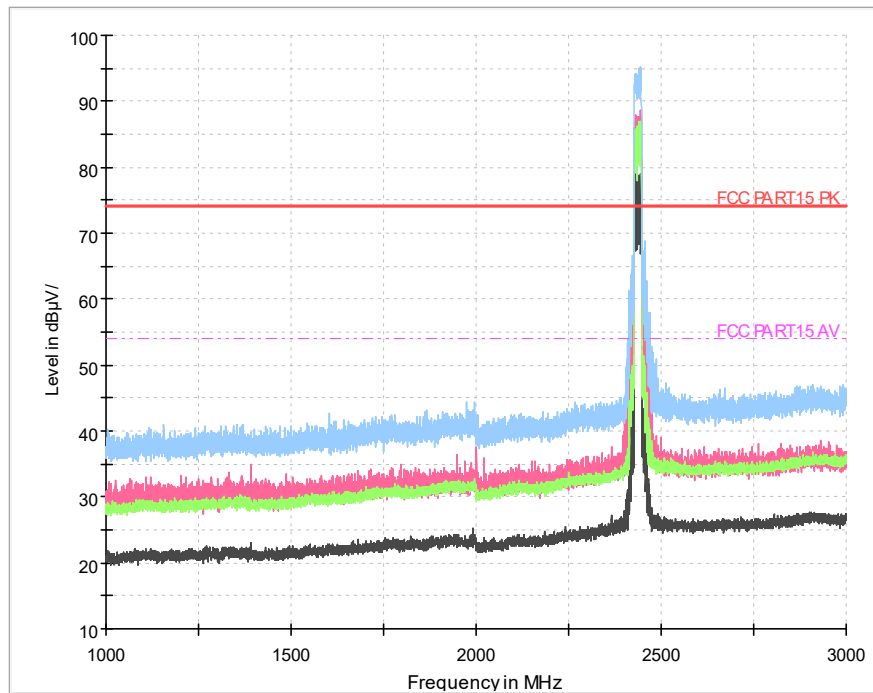


Fig.132 Radiated emission: 802.11n(20M) Ch6, 1GHz-3GHz

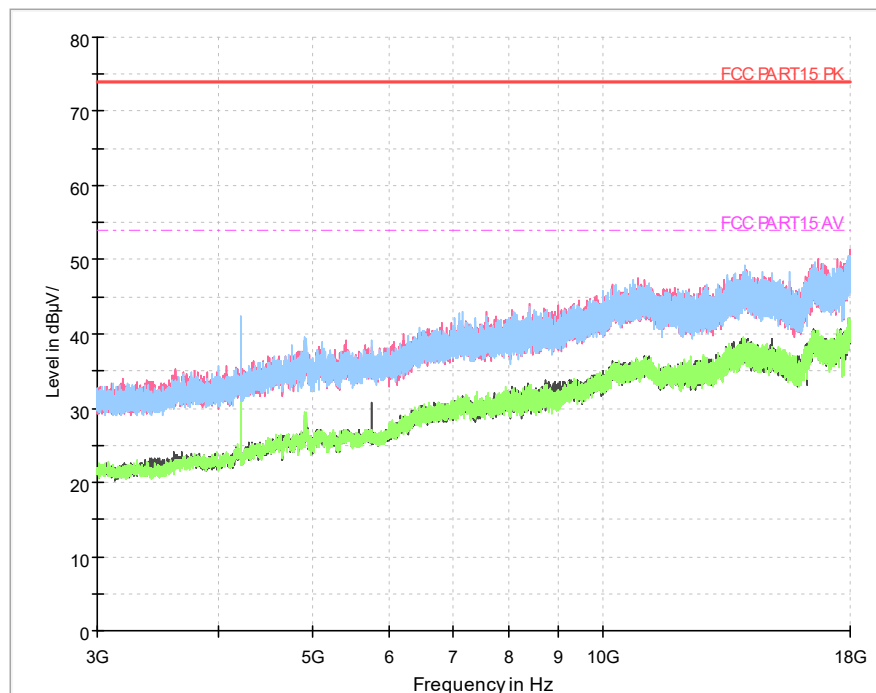


Fig.133 Radiated emission: 802.11n(20M) Ch6, 3GHz-18GHz

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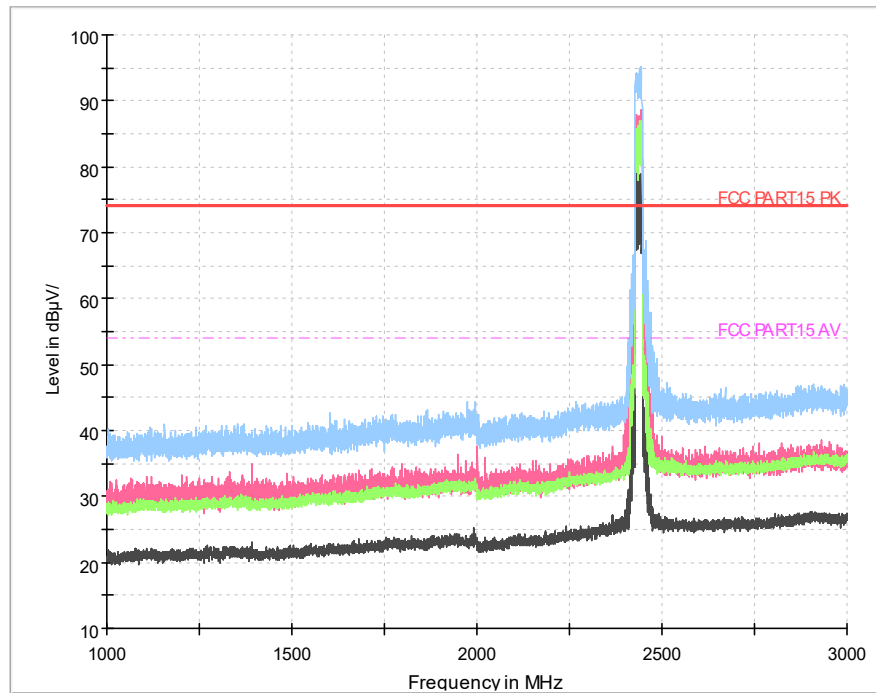


Fig.134 Radiated emission: 802.11n(20M) Ch11, 1GHz-3GHz

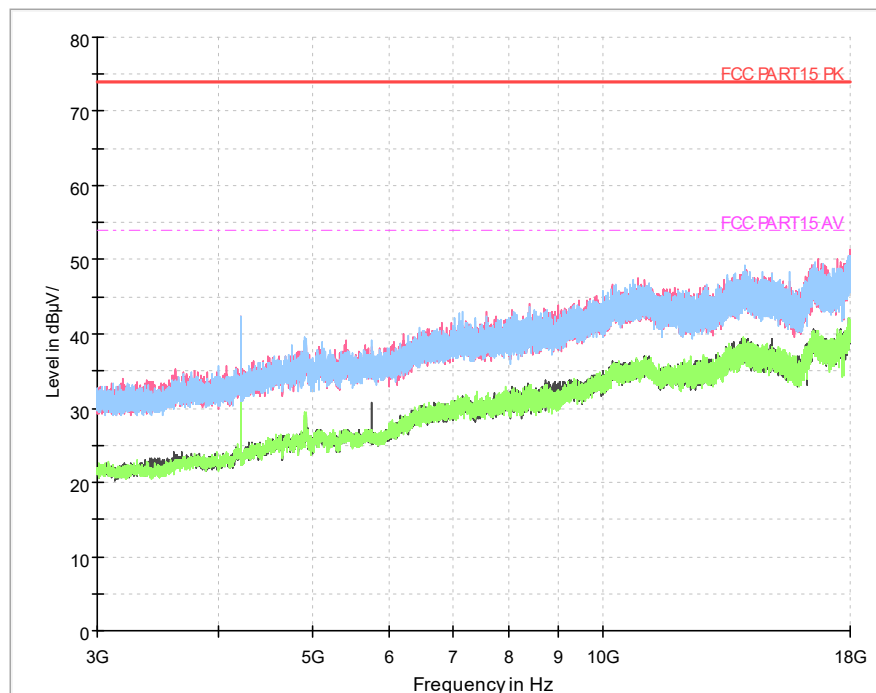


Fig.135 Radiated emission: 802.11n(20M) Ch11, 3GHz-18GHz

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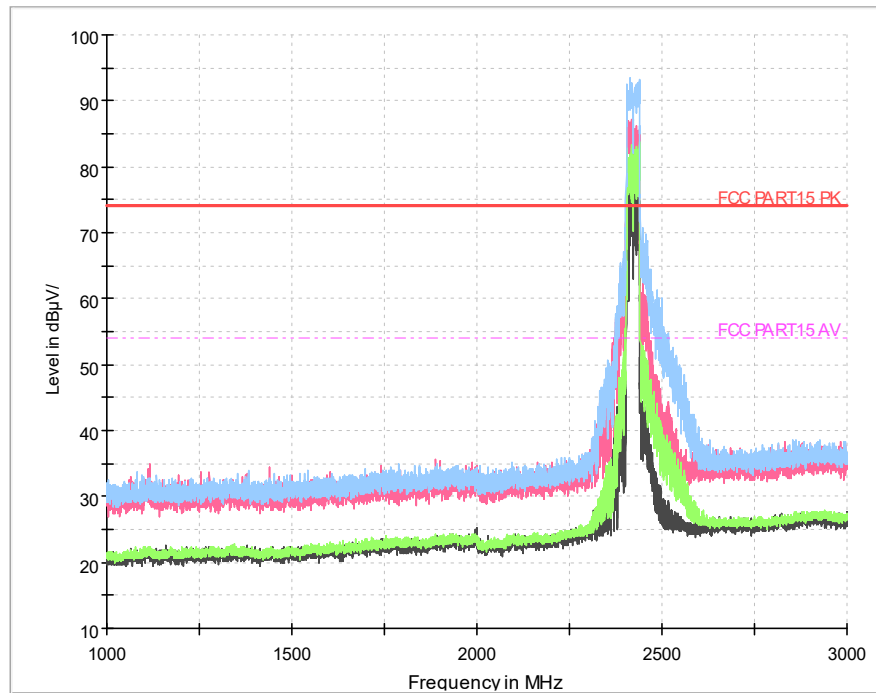


Fig.136 Radiated emission: 802.11n(40M) Ch3, 1GHz-3GHz

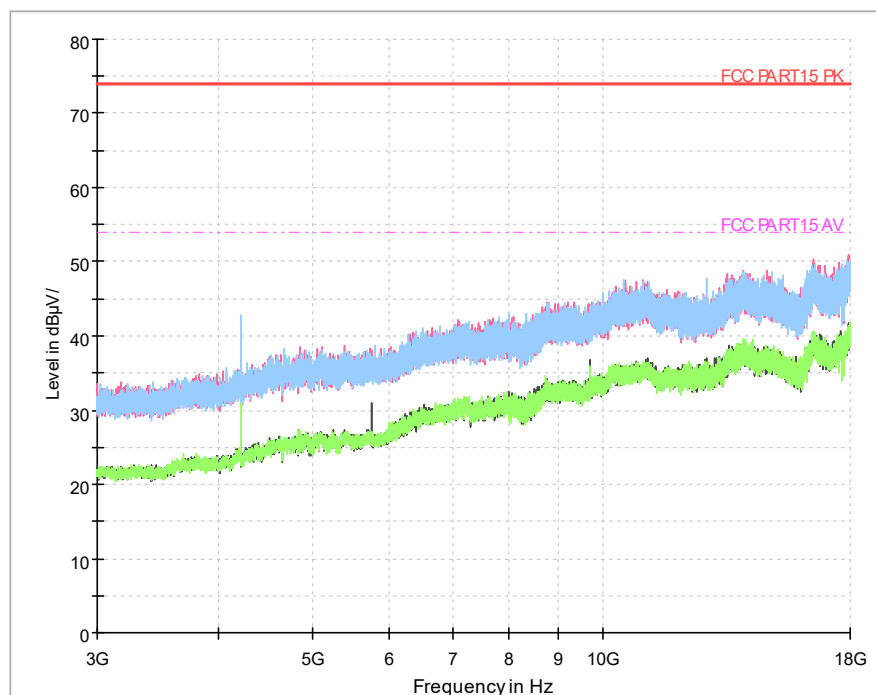


Fig.137 Radiated emission: 802.11n(40M) Ch3, 3GHz-18GHz

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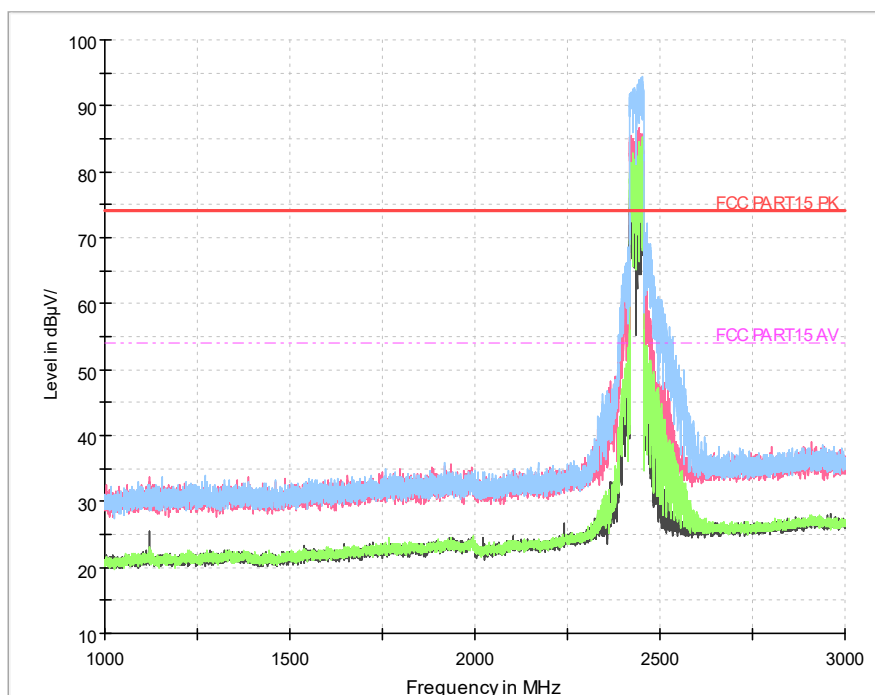


Fig.138 Radiated emission: 802.11n(40M) Ch6, 1GHz-3GHz

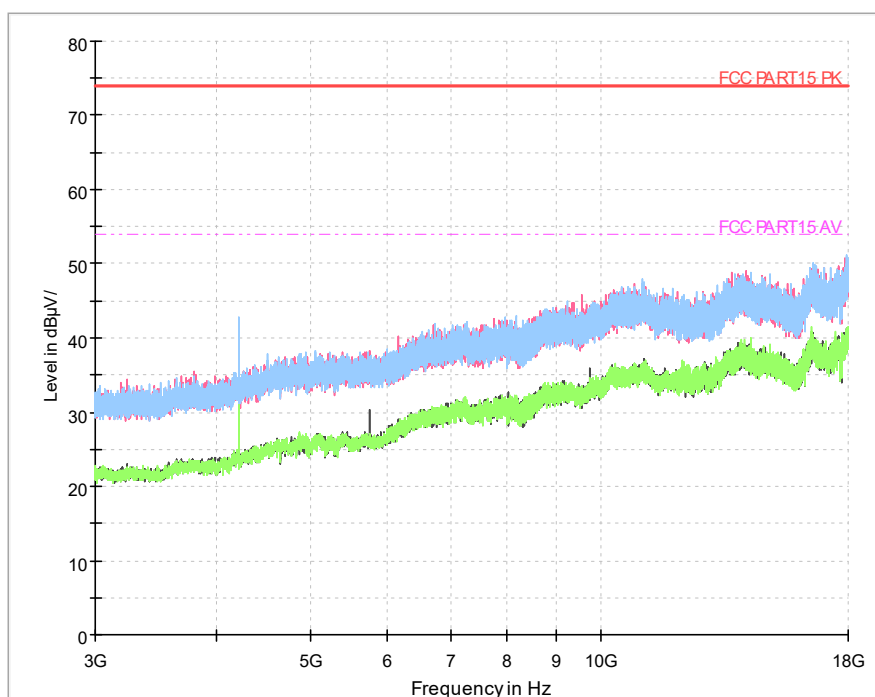


Fig.139 Radiated emission: 802.11n(40M) Ch6, 3GHz-18GHz

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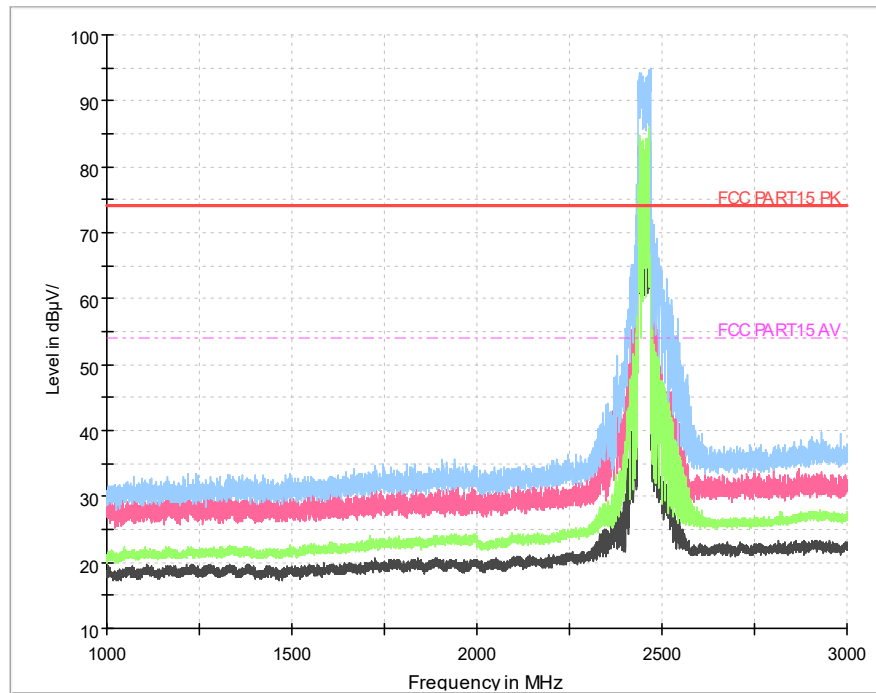


Fig.140 Radiated emission: 802.11n(40M) Ch9, 1GHz-3GHz

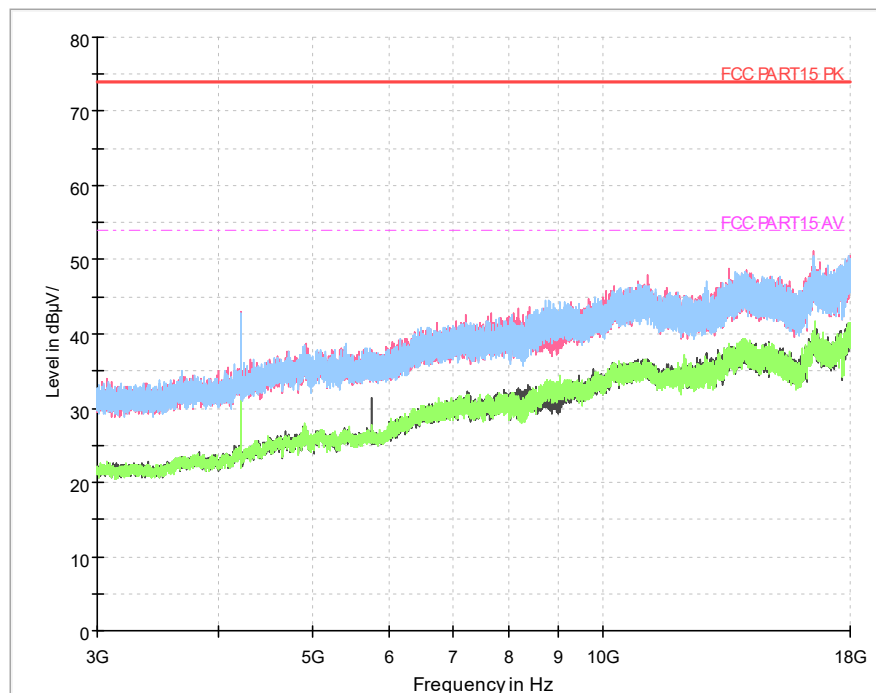


Fig.141 Radiated emission: 802.11n(40M) Ch9, 3GHz-18GHz

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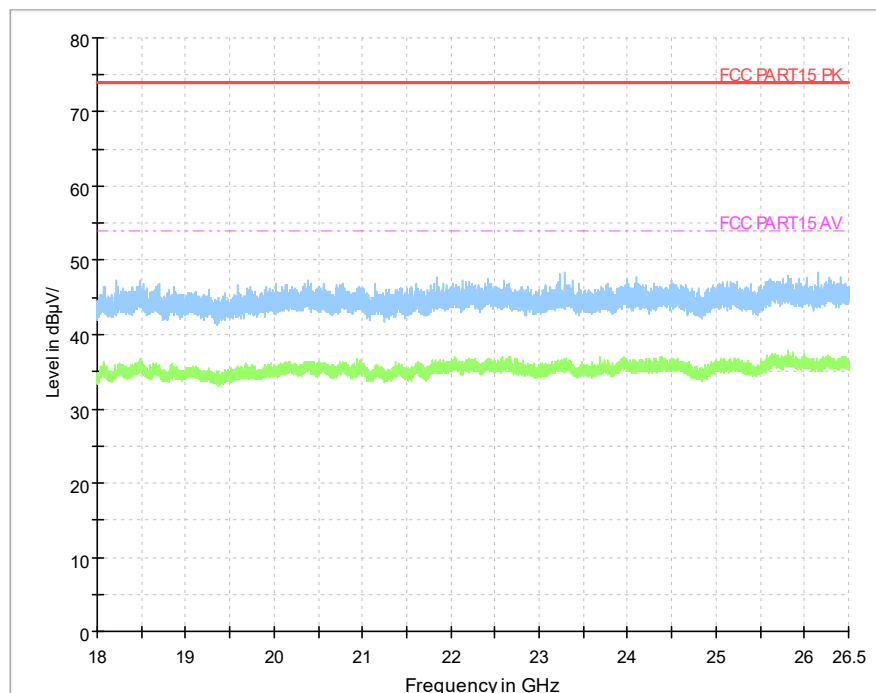


Fig.142 Radiated emission: 802.11b Ch11, 18GHz-26.5GHz

Test photo

See the Pic1- Pic 2 in document" AT Pro NG _Wifi_BT_Test Setup Photos".

Report No.:I21W00012-WLAN_Rev2**5.7 Power line Conducted Emissions**

Specifications:	ANSI C63.10 voltage mains test
DUT Serial Number:	866884045648193
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Measurement Uncertainty:

Frequency Range	Uncertainty
150 kHz to 30 MHz	1.83

Limits of the conducted disturbance at the AC mains ports:

Frequency range	Limit(Quasi-peak)	Limit(Average)
0.15 MHz to 0.5 MHz	66 dB μ V – 56 dB μ V	56 dB μ V – 46 dB μ V
>0.5 MHz to 5MHz	56 dB μ V	46 dB μ V
>5 MHz to 30 MHz	60 dB μ V	50 dB μ V
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

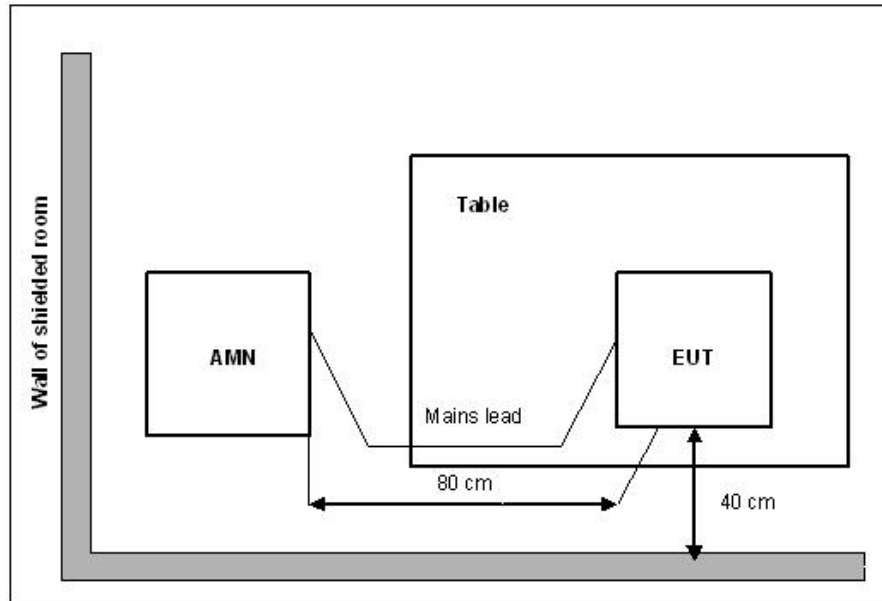
Test Setup

The EUT was placed in a shielding room. The WLAN TESTER was used to set the TX channel and power level. The ac adapter output is connected to Receiver through an AMN (Artificial Mains Network).

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Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

The measurement is made according to ANSI C63.10-2013.

Test Result:

Line L&N

Frequency	QuasiPeak	CAverage	Limit	Margin	Meas. Time	Line	Filter	Corr.
0.434007	41.33	---	57.18	15.84	1000.0	L1	ON	10.0
0.488007	---	35.03	46.20	11.17	1000.0	L1	ON	10.1
0.922588	---	32.28	46.00	13.72	1000.0	L1	ON	9.9
0.972088	42.42	---	56.00	13.58	1000.0	L1	ON	9.9
1.185971	37.89	---	56.00	18.11	1000.0	L1	ON	9.8
1.251926	---	28.65	46.00	17.35	1000.0	L1	ON	9.8
1.795037	---	24.28	46.00	21.72	1000.0	L1	ON	9.8
1.990500	32.69	---	56.00	23.31	1000.0	L1	ON	9.8
4.373228	---	24.50	46.00	21.50	1000.0	L1	ON	9.8
4.633213	34.17	---	56.00	21.83	1000.0	L1	ON	9.8
4.854552	---	26.89	46.00	19.11	1000.0	L1	ON	9.8
4.961448	33.09	---	56.00	22.91	1000.0	L1	ON	9.8

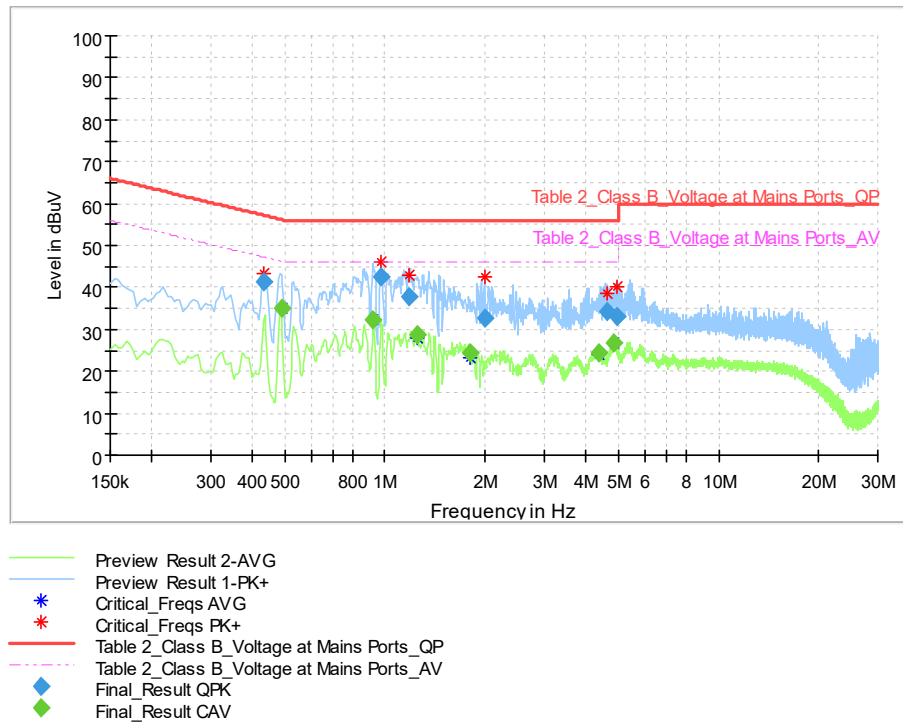
Note: Conduction tests L and N are tested together, but the test curve retains only the maximum curve.

Conclusion: PASS

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Line L& N

Test photo

See the Pic3 in document" AT NG _Wifi Test Setup Photos".

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Annex A EUT Photos

See the document'' AT NG -External Photos''.

See the document'' AT NG -Internal Photos''.

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

*****End Of Report*****

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