



TEST REPORT

No. I18D00226-SRD03

For

Client: Advanced Mobile Payment Inc.

Production: AMP 6500

Model Name: AMP 6500

Brand Name: AMP POS

FCC ID : 2AKJB-AMP6500-1

Hardware Version: AMP 6500-CD

Software Version: V1.0.11

Issued date: 2019-02-15

NOTE

1. The test results in this test report relate only to the devices specified in this report.
2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications.
3. KDB558074 has not been approved by A2LA.
4. For the test results, the uncertainty of measurement is not taken into account when judging the compliance with specification, and the results of measurement or the average value of measurement results are taken as the criterion of the compliance with specification directly.

Test Laboratory:

East China Institute of Telecommunications

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Revision Version

Report Number	Revision	Date	Memo
I18D00226-SRD03	00	2019-01-04	Initial creation of test report
I18D00226-SRD03	01	2019-02-15	Second creation of test report

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1. Test Laboratory

1.1. Testing Location

Company Name	East China Institute of Telecommunications
Address	7-8/F., Area G, No.666, Beijing East Road, Shanghai, China
Postal Code	200001
Telephone	+86 21 63843300
Fax	+86 21 63843301
FCC registration No	958356

1.2. Testing Environment

Normal Temperature	15°C-35°C
Relative Humidity	20%-75%

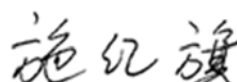
1.3. Project Data

Project Leader	Yu Anlu
Testing Start Date	2018-12-03
Testing End Date	2019-02-14

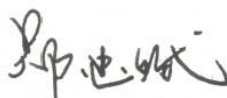
1.4. Signature



Yang Dejun
(Prepared this test report)



Shi Hongqi
(Reviewed this test report)



Zheng Zhongbin
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name	Advanced Mobile Payment Inc.
Address	Units 401-403, 15 Wertheim Court. Richmond Hill, Ontario L4B 3H7 CANAD A
Telephone	1 (905) 597 2333
Postcode	L4B 3H7

2.2. Manufacturer Information

Company Name	NEW POS TECHNOLOGY LIMITED
Address	Floor, Block A, Financial Technology Building, No.11 Keyuan Rd, Nanshan District, Shenzhen
Telephone	/
Postcode	/

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1.About EUT

Production	AMP 6500
Model name	AMP 6500
WLAN Frequency(2.4G)	2412MHz-2462MHz
WLAN Channel(2.4G)	Channel1-Channel11
WLAN type of modulation	802.11b:DSSS 802.11g/n: OFDM
GSM Frequency Band	GSM1900
UMTS Frequency Band	Band II
CDMA Frequency Band	NA
LTE Frequency Band	LTE 2/4/5/7/25/26
Additional Communication Function	BT4.2, BLE, WiFi 802.11a,b,g,n20,n40
Extreme Temperature	-20/+60°C
Nominal Voltage	12V
Extreme High Voltage	15V
Extreme Low Voltage	10V

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2.Internal Identification of EUT used during the test

EUT ID*	Model Name	SN or IMEI	HW Version	SW Version	Date of receipt
N01	AMP 6500	/	AMP 6500-CD	V1.0.11	2018-11-10
N05	AMP 6500	/	AMP 6500-CD	V1.0.11	2018-11-10

*EUT ID: is used to identify the test sample in the lab internally.

3.3.Internal Identification of AE used during the test

AE ID*	Description	Type	Manufacturer
AE1	RF cable	---	AE1

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Documents supplied by applicant

All technical documents are supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.	2018/10/1
ANSI 63.10	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	2013
KDB558074	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247	2018/08/24

5. Test Results

5.1. Summary of Test Results

Measurement Items	Sub-clause of Part15C	Sub-clause of IC	Verdict
Maximum Peak Output Power	15.247(a)	/	P
Peak Power Spectral Density	15.247(e)	/	P
Occupied 6dB Bandwidth	15.247(d)	/	P
Band Edges Compliance	15.247(b)	/	P
Transmitter Spurious Emission-Conducted	15.247	/	P
Transmitter Spurious Emission-Radiated	15.247,15.209,	/	P
AC Powerline Conducted Emission	15.107,15.207	/	P

Note: please refer to Annex A in this test report for the detailed test results.

Please refer to part 5 for detail.

The measurements are according to Public notice KDB558074 and ANSI C63.10.

Terms used in Verdict column

The following terms are used in the above table.

P	Pass, the EUT complies with the essential requirements in the standard.
NP	Not Perform, the test was not performed by ECIT.
NA	Not Applicable, the test was not applicable.
F	Fail, the EUT does not comply with the essential requirements in the standard.

Test Conditions

Tnom	Normal Temperature
Tmin	Low Temperature
Tmax	High Temperature
Vnom	Normal Voltage
Vmin	Low Voltage
Vmax	High Voltage
Hnom	Norm Humidity

Anom	Norm Air Pressure
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For this report, all the test case listed above are tested under Normal Temperature and Normal Voltage, and also under norm humidity, the specific conditions as following:

Temperature	Tnom	25°C
Voltage	Vnom	12V
Humidity	Hnom	48%
Air Pressure	Anom	1010hPa

5.2. Statements

The AMP 6500, support GSM/GPRS/EDGE/WCDMA/LTE/BT/BLE/WLAN, manufactured by NEW POS TECHNOLOGY LIMITED, which is a new product for testing

ECIT only performed test cases which identified with P/NP/NA/F results in Annex A.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

6. Test Equipments Utilized

6.1. Conducted Test System

Item	Instrument Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Vector Signal Analyzer	FSQ26	101091	Rohde&Schwarz	2018-05-11	1 Year
2	DC Power Supply	ZUP60-14	LOC-220Z0 06 -0007	TDL-Lambda	2018-05-11	1 Year

6.2. Radiated Emission Test System

Item	Instrument Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. interval
1	Universal Radio Communication Tester	CMU200	123123	R&S	2018-05-11	1 Year
2	EMI Test Receiver	ESU40	100307	R&S	2018-05-11	1 Year
3	TRILOG Broadband Antenna	VULB9163	VULB9163-515	Schwarzbeck	2017-02-25	3 Year
4	Double- ridged Waveguide Antenna	ETS-3117	00135890	ETS	2017-01-11	3 Year
5	2-Line V-Network	ENV216	101380	R&S	2018-05-11	1 Year

Anechoic chamber

Fully anechoic chamber by Frankonia German.

7. Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in ECIT documents . The detailed measurement uncertainty is defined in ECIT documents.

Measurement Items	Range	Confidence Level	Calculated Uncertainty
Peak Output Power-Conducted	2412MHz-2462MHz	95%	$\pm 0.88\text{db}$
Peak Power Spectral Density	2412MHz-2462MHz	95%	$\pm 0.88\text{dB}$
Occupied 6dB Bandwidth	2412MHz-2462MHz	95%	$\pm 0.0031\text{MHz}$
Frequency Band Edges-Conducted	2412MHz-2462MHz	95%	$\pm 4.56\text{dB}$
Conducted Emission	$30\text{MHz} \leq f \leq 2\text{GHz}$	95%	$\pm 4.56\text{dB}$
Conducted Emission	$2\text{GHz} \leq f \leq 3.6\text{GHz}$	95%	0.63
Conducted Emission	$3.6\text{GHz} \leq f \leq 8\text{GHz}$	95%	0.88
Conducted Emission	$8\text{GHz} \leq f \leq 20\text{GHz}$	95%	1.55
Conducted Emission	$20\text{GHz} \leq f \leq 22\text{GHz}$	95%	1.86
Conducted Emission	$22\text{GHz} \leq f \leq 26\text{GHz}$	95%	1.90
Transmitter Spurious Emission-Radiated	9KHz-30MHz	95%	$\pm 5.66\text{db}$
Transmitter Spurious Emission-Radiated	30MHz-1000MHz	95%	$\pm 4.98\text{db}$
Transmitter Spurious Emission-Radiated	1000MHz -18000MHz	95%	$\pm 5.06\text{db}$
Transmitter Spurious Emission-Radiated	18000MHz -40000MHz	95%	$\pm 5.20\text{db}$
AC Power line Conducted Emission	0.15MHz-30MHz	95%	$\pm 5.66\text{ db}$

8. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Ground system resistance	< 0.5 Ω

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB, 30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz

ANNEX A. Detailed Test Results

ANNEX A.1. Output Power-Conducted

A.1.1 Measurement Limit and method:

Standard	Limit(dBm)
FCC CRF 15.247(b)	< 30

A.1.2 Test procedure

The measurement is according to ANSI C63.10 clause 11.2

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.
3. Set RBW \geq OBW(1MHz), VBW \geq 3RBW(3MHz).
4. Span : 80MHz
5. Detector : Peak/RMS.
6. Trace mode: Max Hold
7. Spectrum Analyzer setting : Meas—channel PWR ACP—CP/ACP Config—channel bandwidth—20/40MHz

A.1.3 Maximum Peak Output Power-conducted

Measurement Results:

802.11b/g mode

Mode	Data Rate(Mbps)	Teat Result(dBm)		
		2412MHz(Ch1)	2437MHz(Ch6)	2462MHz(Ch11)
802.11b	1	/	/	20.42
	2	/	/	20.62
	5.5	/	/	22.12
	11	22.35	23.04	23.65
802.11g	6	/	/	25.07
	9	/	/	25.17
	12	/	/	25.21
	18	/	/	25.34
	24	/	/	25.67

	36	/	/	25.72
	48	/	/	25.83
	54	24.41	24.73	25.87

The data rate 11 Mbps and 54 Mbps are selected as worse condition, and the following cases are performed with this condition.

802.11n mode

Mode	Data Rate(Index)	Teat Result(dBm)		
		2412MHz(Ch1)	2437MHz(Ch6)	2462MHz(Ch11)
802.11n(20MHz)	MCS0	/	/	24.96
	MCS1	/	/	25.21
	MCS2	/	/	25.42
	MCS3	/	/	25.59
	MCS4	/	/	25.69
	MCS5	/	/	25.74
	MCS6	/	/	25.83
	MCS7	24.66	25.32	25.94
Mode	Data Rate(Index)	Teat Result(dBm)		
		2422MHz(Ch3)	2437MHz(Ch6)	2452MHz(Ch9)
802.11n(40MHz)	MCS0	/	/	22.84
	MCS1	/	/	22.97
	MCS2	/	/	23.15
	MCS3	/	/	23.35
	MCS4	/	/	23.51
	MCS5	/	/	23.56
	MCS6	/	/	23.66
	MCS7	22.35	23.18	23.74

The data rate MCS7 for 802.11n(20M) and MCS7 for 802.11n(40M) are selected as worse condition, and

the following case are performed with this condition.

A.1.4 Maximum Average Output Power-conducted

802.11b/g mode

Mode	Test Result(dBm)		
	2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
802.11b	18.77	19.23	20.02
802.11g	18.63	19.45	19.78

802.11n mode

Mode	Test Result(dBm)		
	2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
802.11n(20MHz)	18.56	19.03	19.65
Mode	Test Result(dBm)		
	2422MHz (Ch3)	2437MHz (Ch6)	2452MHz (Ch9)
802.11n(40MHz)	16.89	17.21	17.64

Conclusion: PASS

ANNEX A.2. Peak Power Spectral Density

A.2.1 Measurement Limit:

Standard	Limit
FCC CFR Part 15.247(e)	< 8dBm/3 KHz

A.2.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.10.

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.
3. Set analyzer center frequency to DTS channel center frequency.
4. Set the span to 1.5 times the DTS bandwidth.

5. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
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 amplitude level within the RBW.
12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Measurement Results:

802.11b/g mode

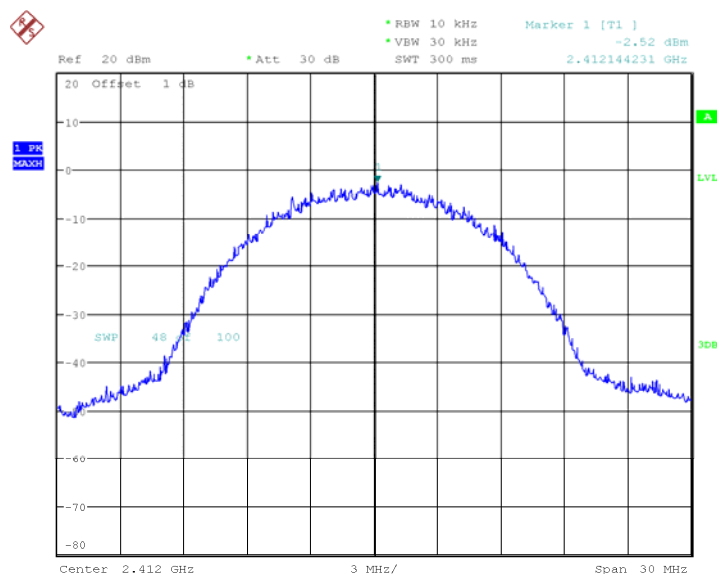
Mode	Channel	Power Spectral Density(dBm/3kHz)		Conclusion
802.11b	1	Fig 1.	-2.52	P
	6	Fig 2.	-1.49	P
	11	Fig 3.	-0.74	P
802.11g	1	Fig 4.	-4.68	P
	6	Fig 5.	-4.07	P
	11	Fig 6.	-3.18	P

802.11n mode

Mode	Channel	Power Spectral Density(dBm/3kHz)		Conclusion
802.11n(20MHz)	1	Fig 7.	-4.29	P
	6	Fig 8.	-2.92	P
	11	Fig 9.	-3.40	P
802.11n(40MHz)	3	Fig 10.	-6.20	P
	6	Fig 11.	-6.60	P
	9	Fig 12.	-5.99	P

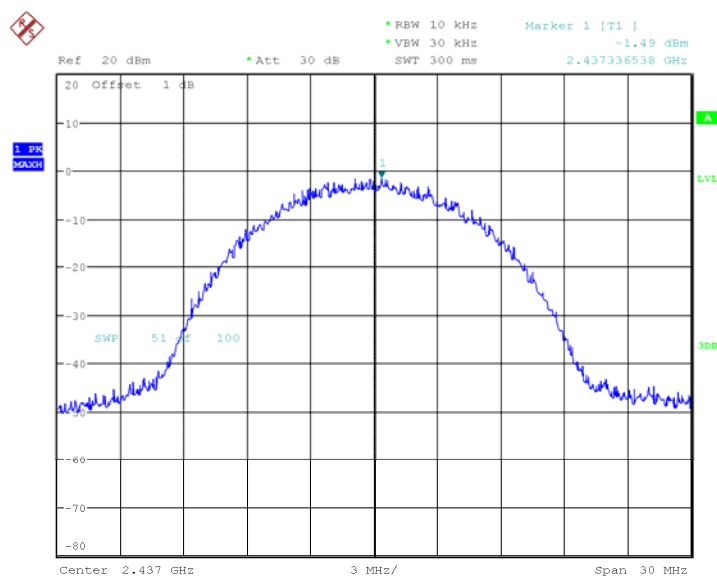
Conclusion: PASS

Test graphs as below:



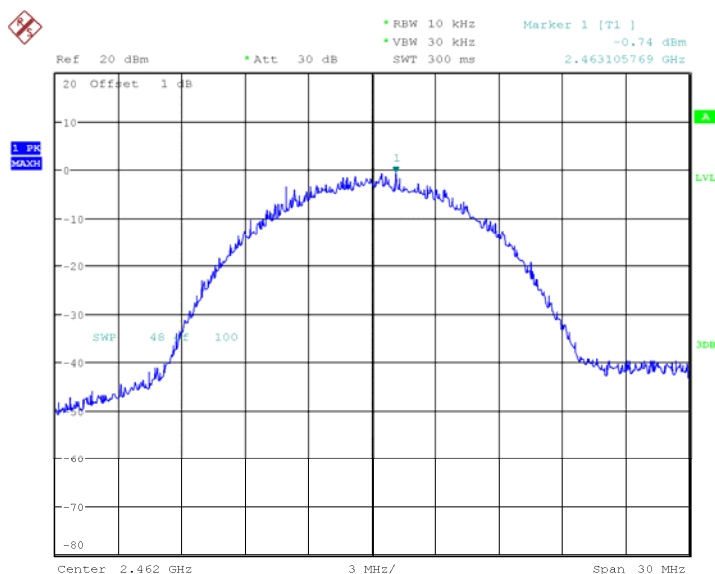
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Fig 1. Power Spectral Density (802.11b,Ch1)



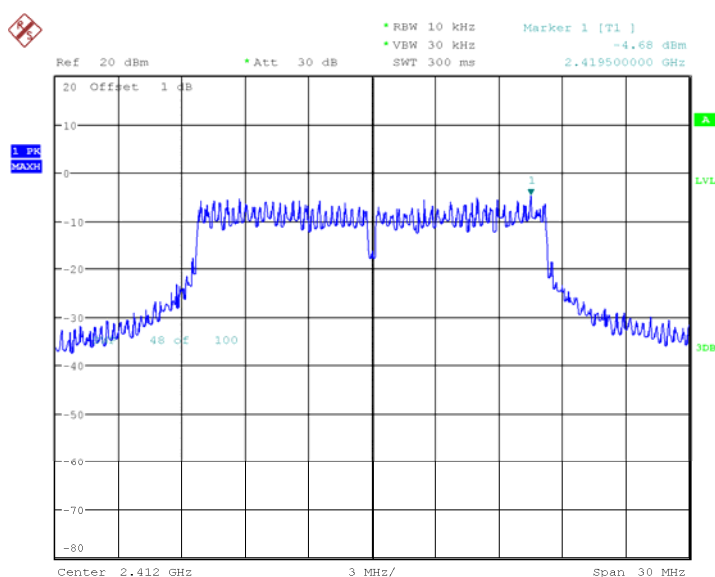
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Fig 2. Power Spectral Density (802.11b,Ch6)



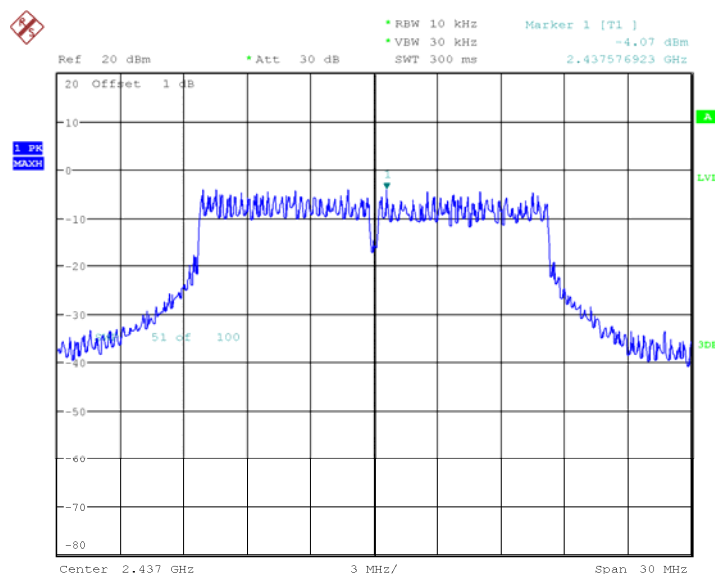
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Fig 3. Power Spectral Density (802.11b,Ch11)



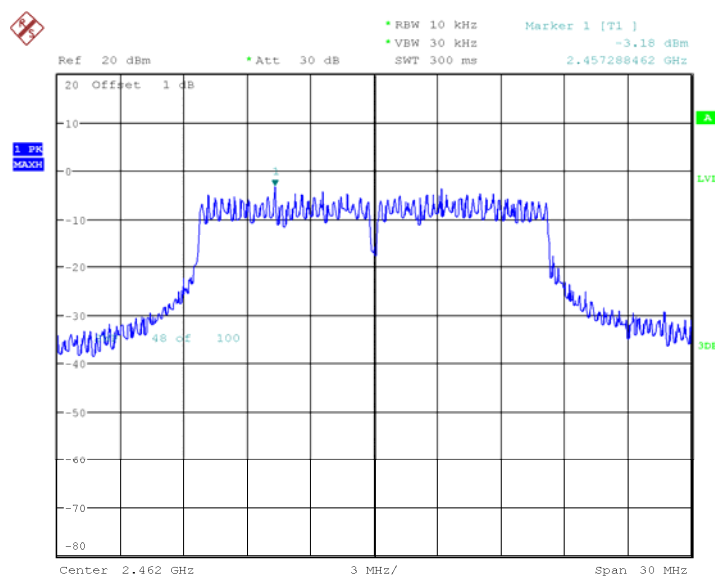
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Fig 4. Power Spectral Density (802.11g,Ch1)



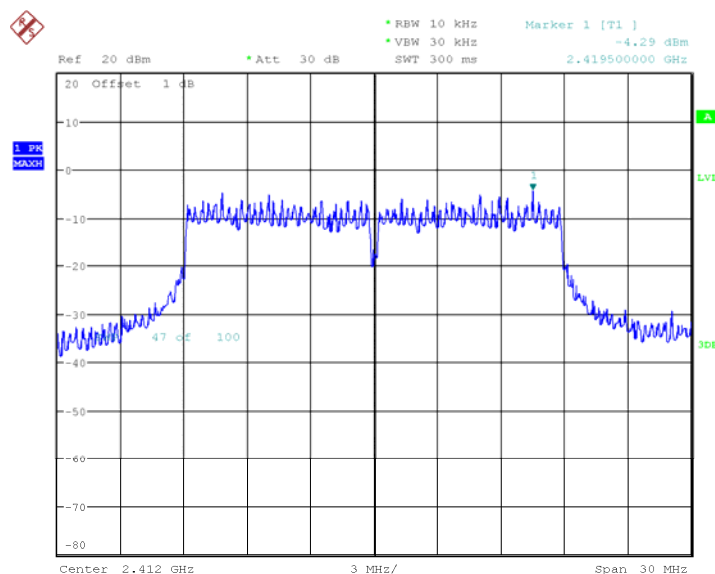
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Fig 5. Power Spectral Density (802.11g,Ch6)



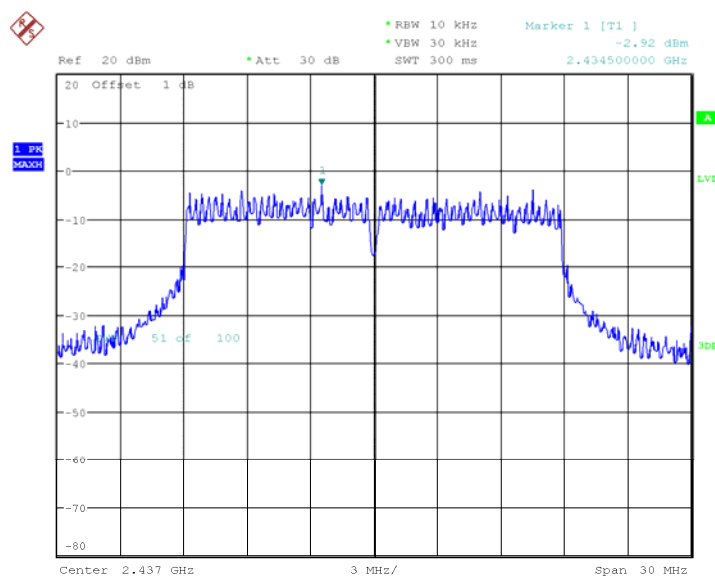
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Fig 6. Power Spectral Density (802.11g,Ch11)



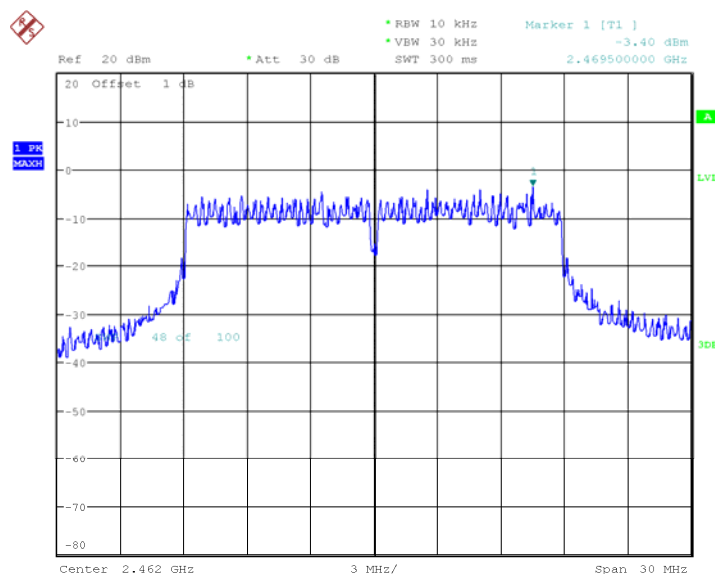
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Fig 7. Power Spectral Density (802.11n-20MHz,Ch1)



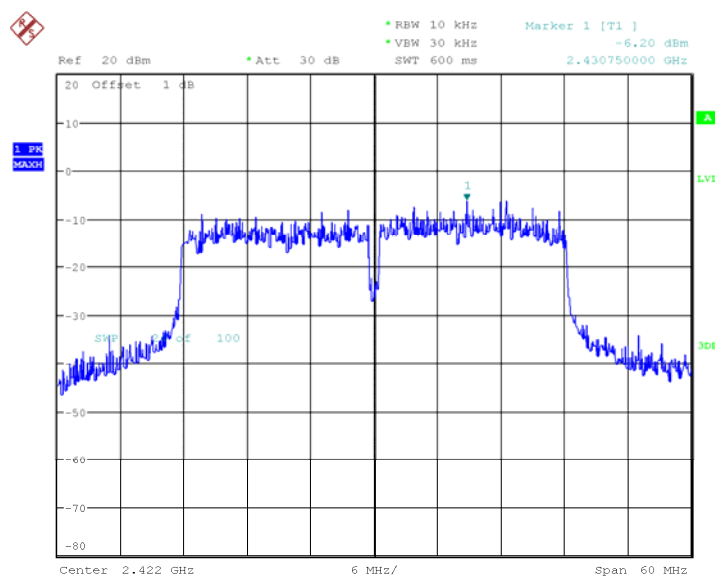
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Fig 8. Power Spectral Density (802.11n-20MHz,Ch6)



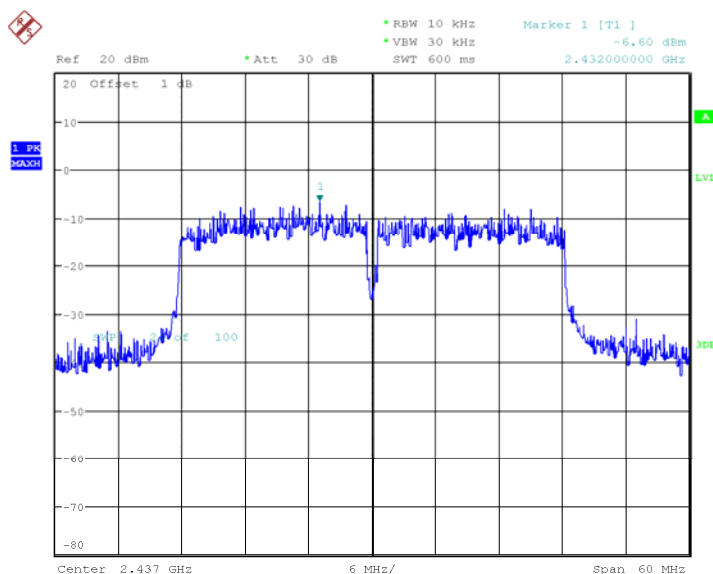
Date: 1.FEB.2019 14:02:42

Fig 9. Power Spectral Density (802.11n-20MHz,Ch11)



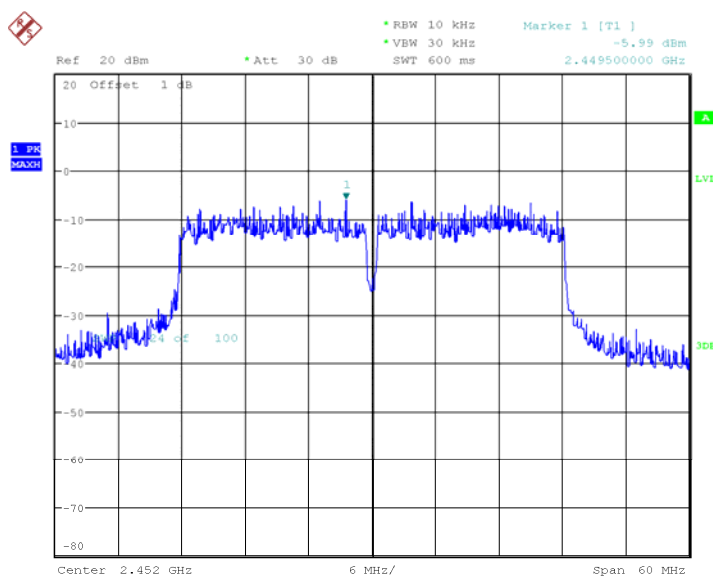
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Fig 10. Power Spectral Density (802.11n-40MHz,Ch3)



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Fig 11. Power Spectral Density (802.11n-40MHz,Ch6)



Date: 1.FEB.2019 14:05:41

Fig 12. Power Spectral Density (802.11n-40MHz,Ch9)

ANNEX A.3. Occupied 6dB Bandwidth

A.3.1 Measurement Limit:

Standard	Limit(KHz)
FCC 47 CFR Part 15.247(a)	≥500

A.3.2 Test procedure

The measurement is according to ANSI C63.10 clause 11.8.

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.
3. Set RBW = 100 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Result:

802.11b/g mode

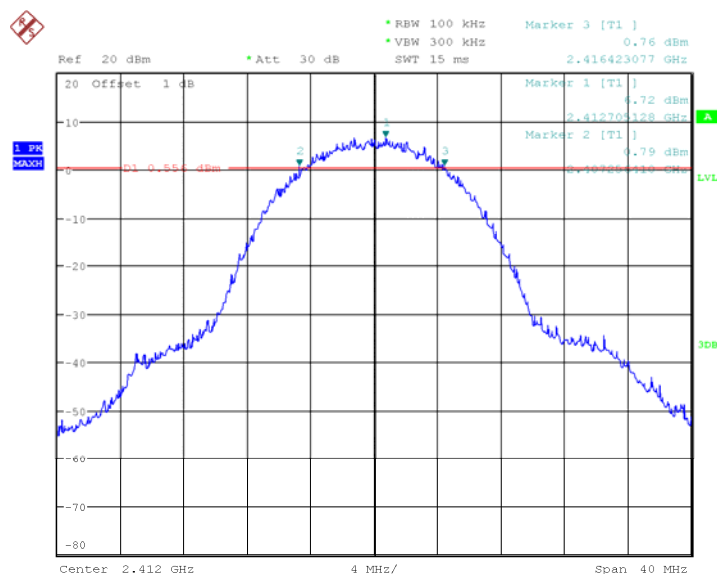
Mode	Channel	Occupied 6dB Bandwidth(MHz)		Conclusion
802.11b	1	Fig 13.	9.17	P
	6	Fig 14.	8.85	P
	11	Fig 15.	9.36	P
802.11g	1	Fig 16.	16.47	P
	6	Fig 17.	16.47	P
	11	Fig 18.	16.47	P

802.11n mode

Mode	Channel	Occupied 6dB Bandwidth(MHz)		Conclusion
802.11n(20MHz)	1	Fig 19.	17.76	P
	6	Fig 20.	17.76	P
	11	Fig 21.	17.63	P
802.11n(40MHz)	3	Fig 22.	35.38	P
	6	Fig 23.	35.38	P
	9	Fig 24.	36.41	P

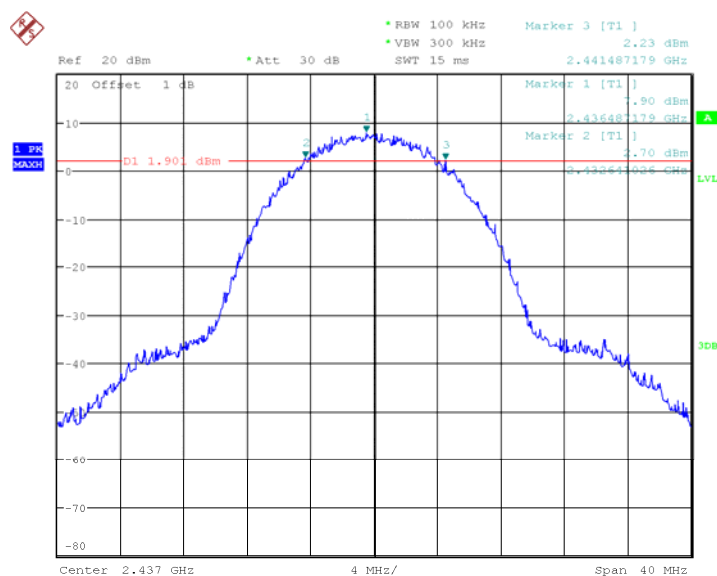
Conclusion: PASS

Test graphs as below:



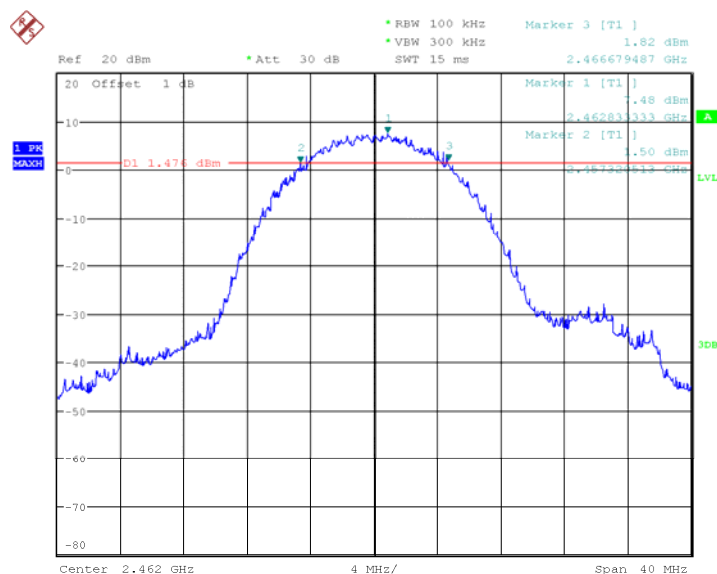
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Fig 13. Occupied 6dB Bandwidth (802.11b, Ch1)



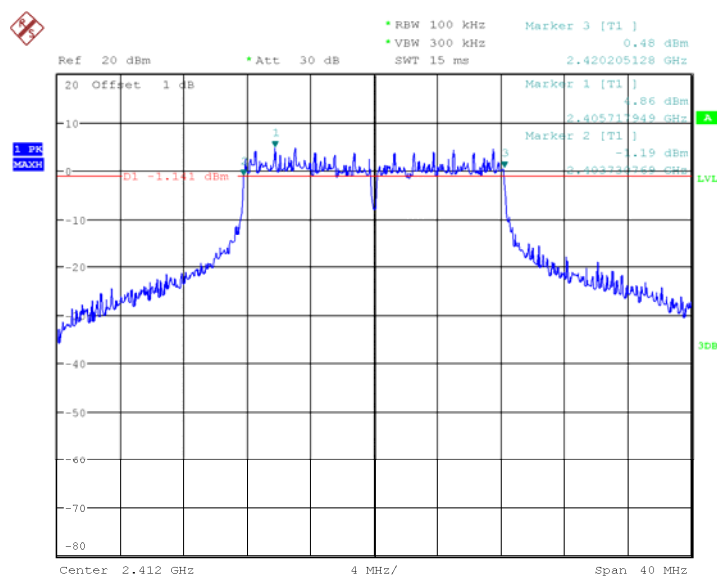
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Fig 14. Occupied 6dB Bandwidth (802.11b, Ch6)



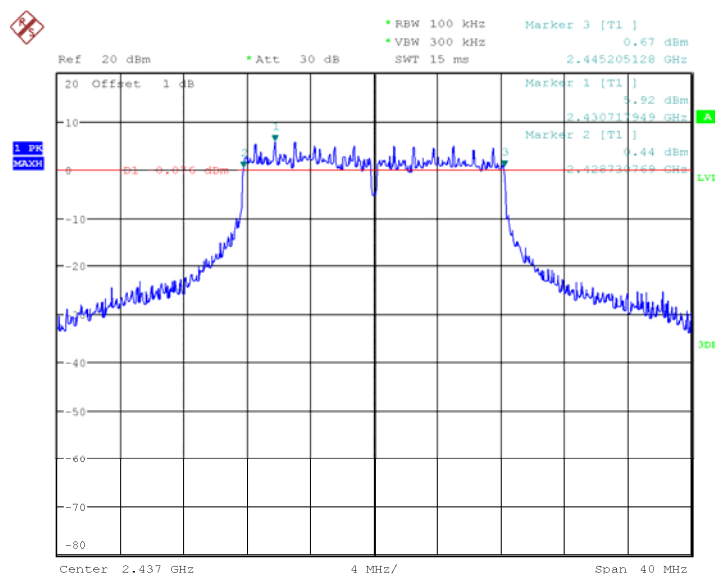
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Fig 15. Occupied 6dB Bandwidth (802.11b, Ch11)



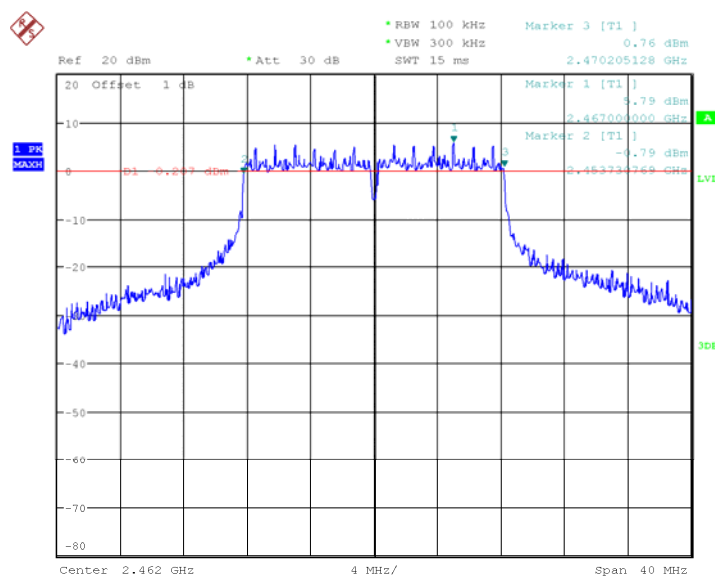
Date: 1.FEB.2019 13:41:44

Fig 16. Occupied 6dB Bandwidth (802.11g, Ch1)



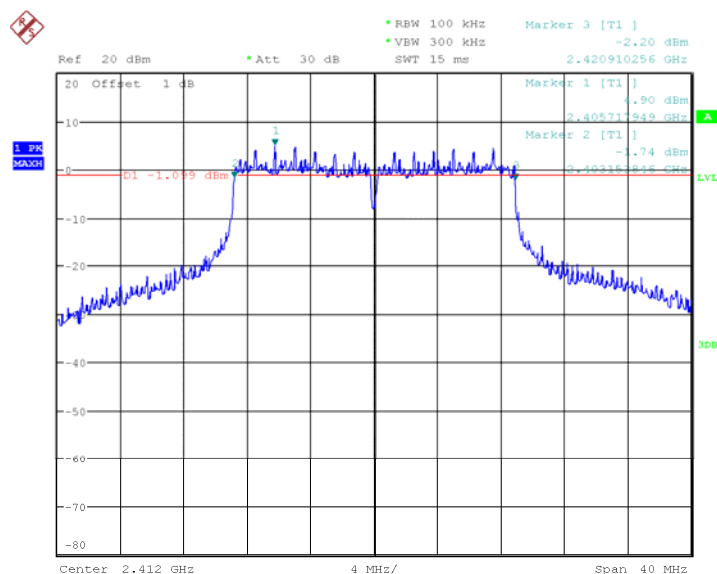
Date: 1.FEB.2019 13:43:50

Fig 17. Occupied 6dB Bandwidth (802.11g, Ch6)



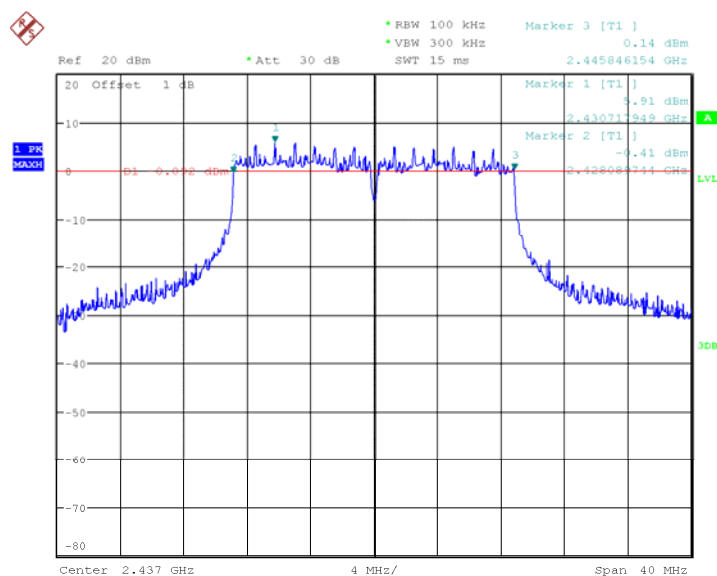
Date: 1.FEB.2019 13:45:07

Fig 18. Occupied 6dB Bandwidth (802.11g, Ch11)



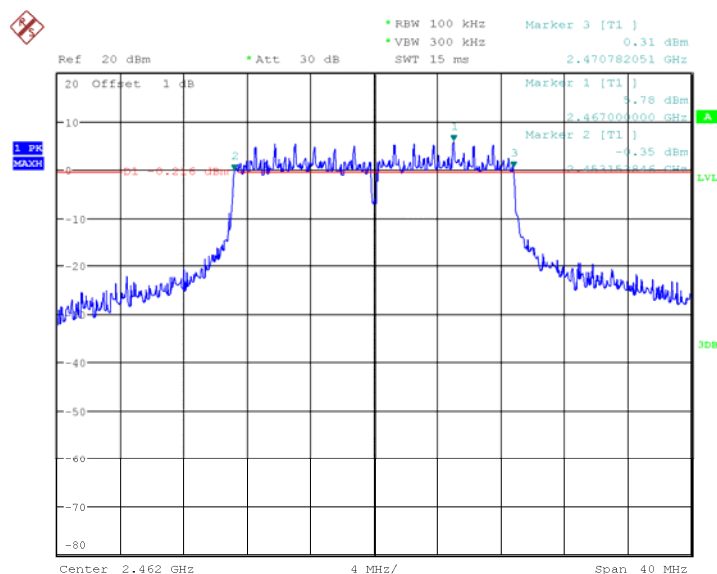
Date: 1.FEB.2019 13:46:10

Fig 19. Occupied 6dB Bandwidth (802.11n-20MHz, Ch1)



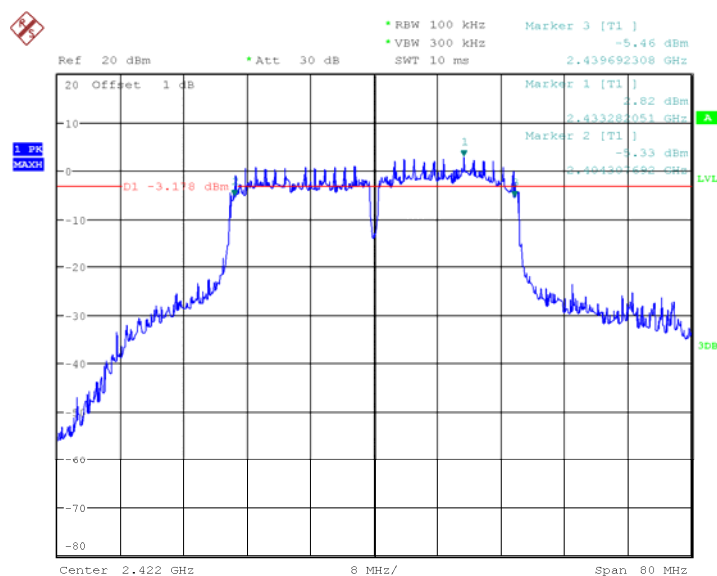
Date: 1.FEB.2019 13:47:11

Fig 20. Occupied 6dB Bandwidth (802.11n-20MHz, Ch6)



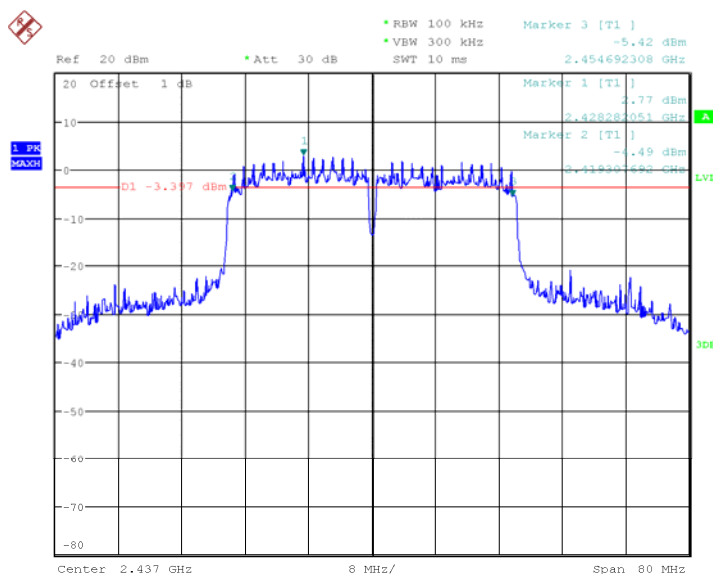
Date: 1.FEB.2019 13:48:10

Fig 21. Occupied 6dB Bandwidth (802.11n-20MHz, Ch11)



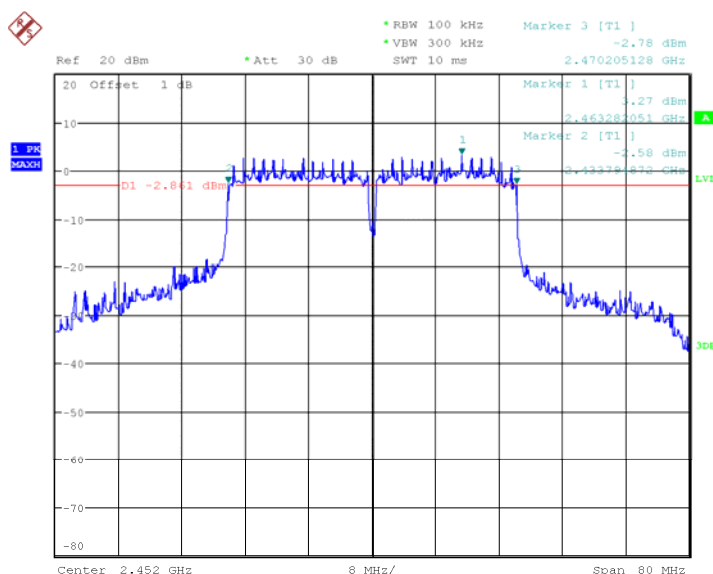
Date: 1.FEB.2019 13:49:13

Fig 22. Occupied 6dB Bandwidth (802.11n-40MHz, Ch3)



Date: 1.FEB.2019 13:50:22

Fig 23. Occupied 6dB Bandwidth (802.11n-40MHz, Ch6)



Date: 1.FEB.2019 13:51:41

Fig 24. Occupied 6dB Bandwidth (802.11n-40MHz, Ch9)

ANNEX A.4. Band Edges Compliance

A.4.1 Measurement Limit:

Standard	Limited(dBc)
FCC 47 CFR Part 15.247(d)	>20

A.4.2 Test procedures

The measurement is according to ANSI C63.10 clause 11.13.

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.
3. Set instrument center frequency to the frequency of the emission to be measured (must be within 2MHz of the authorized band edge).
4. Set span to 2 MHz.
5. RBW = 100 kHz.
6. VBW $\geq [3 \times \text{RBW}]$.
7. Detector = peak.
8. Sweep time = auto.
9. Trace mode = max hold.
10. Allow sweep to continue until the trace stabilizes

Measurement results**802.11b/g mode**

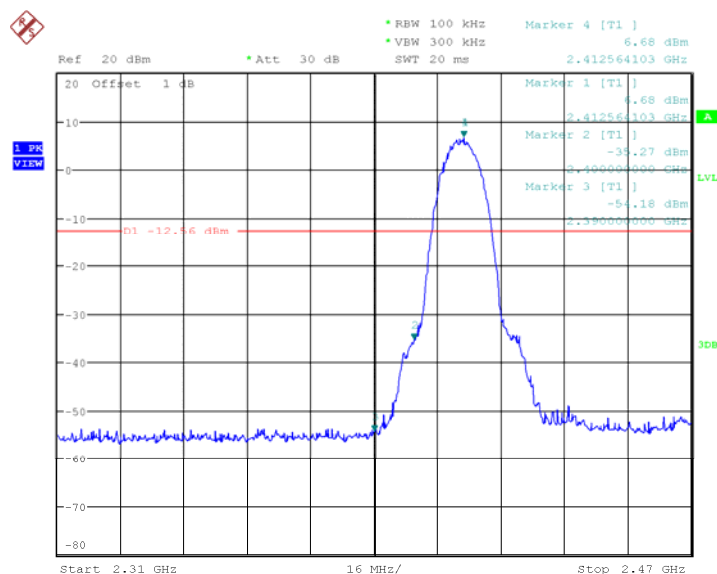
Mode	Channel	Test Results	Conclusion
802.11b	1	Fig 25.	P
	11	Fig 26.	P
802.11g	1	Fig 27.	P
	11	Fig 28.	P

802.11n mode

Mode	Channel	Test Results	Conclusion
802.11n(20MHz)	1	Fig 29.	P
	11	Fig 30.	P
802.11n(40MHz)	3	Fig 31.	P
	9	Fig 32.	P

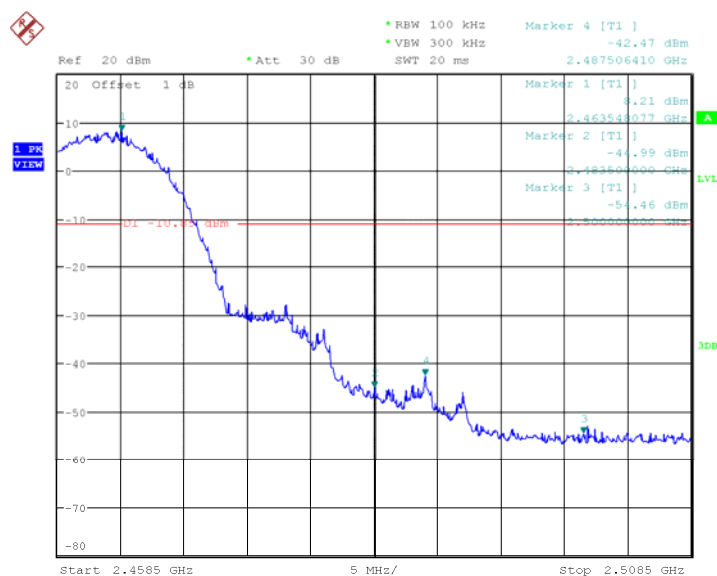
Conclusion: PASS

Test graphs as blew:



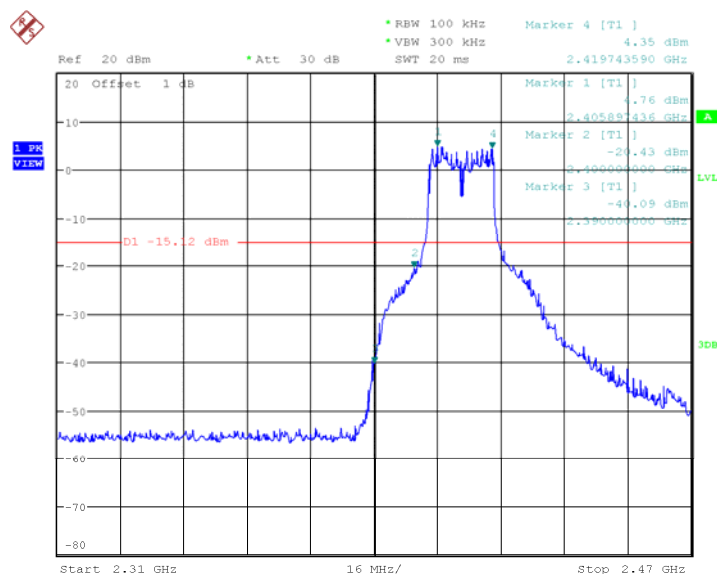
Date: 1.FEB.2019 14:07:40

Fig 25. Band Edges (802.11b, Ch1)



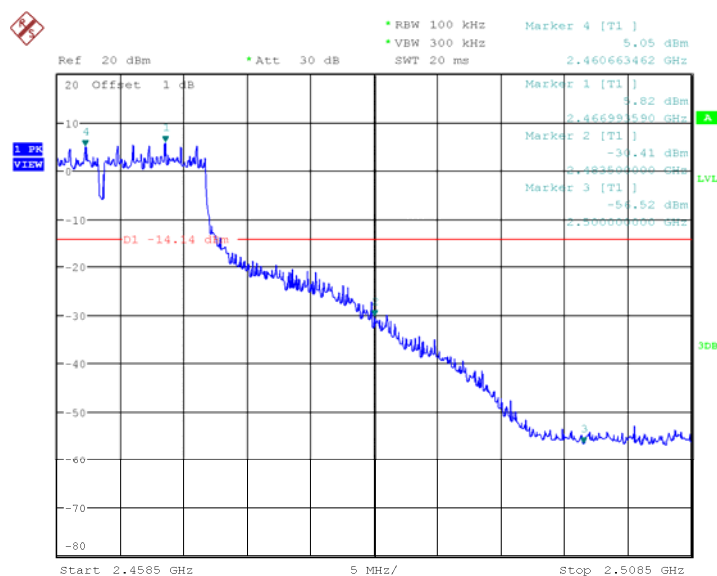
Date: 1.FEB.2019 14:12:00

Fig 26. Band Edges (802.11b, Ch11)



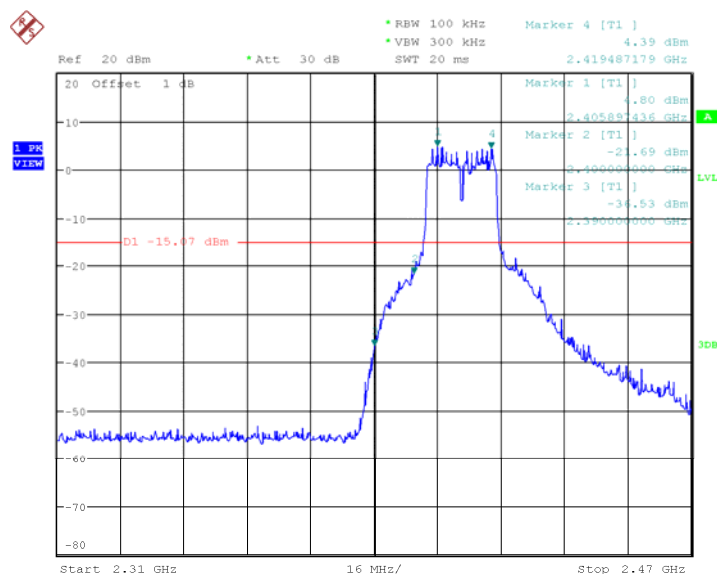
Date: 1.FEB.2019 14:14:15

Fig 27. Band Edges (802.11g, Ch1)



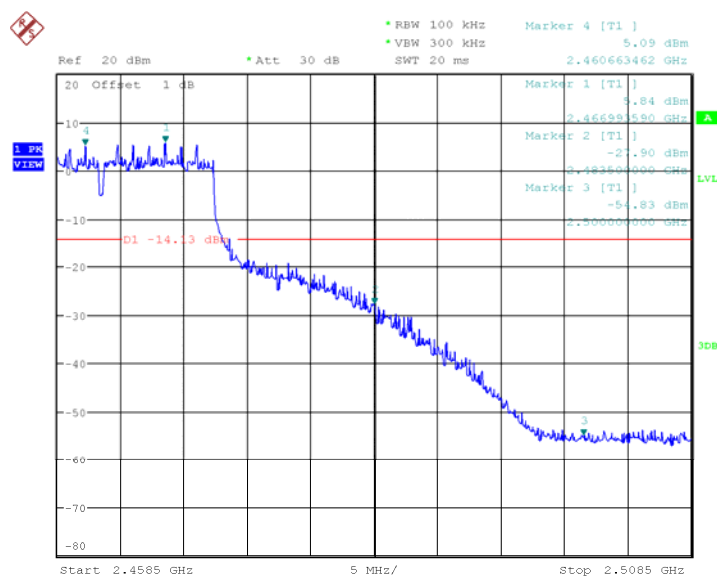
Date: 1.FEB.2019 14:18:39

Fig 28. Band Edges (802.11g, Ch1)



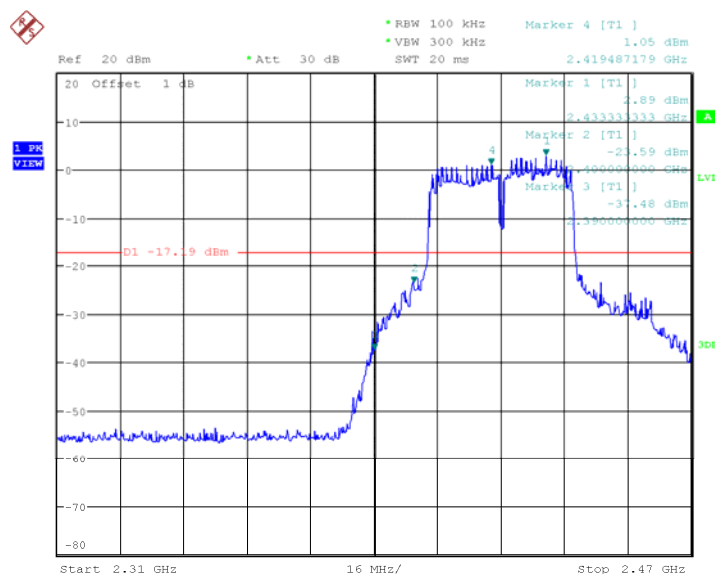
Date: 1.FEB.2019 14:20:55

Fig 29. Band Edges (802.11n-20MHz, Ch1)



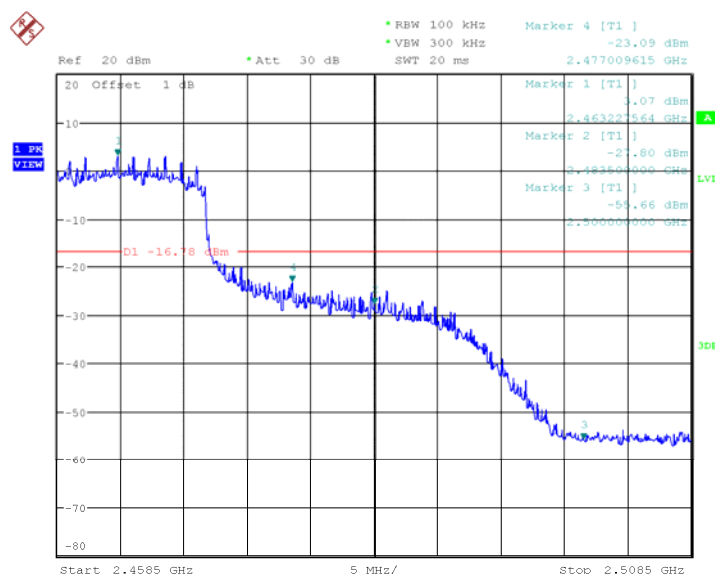
Date: 1.FEB.2019 14:25:39

Fig 30. Band Edges (802.11n-20MHz, Ch11)



Date: 1.FEB.2019 14:27:57

Fig 31. Band Edges (802.11n-40MHz, Ch3)



Date: 1.FEB.2019 14:32:12

Fig 32. Band Edges (802.11n-40MHz, Ch9)

ANNEX A.5. Transmitter Spurious Emission-conducted

A.5.1 Measurement Limit:

Standard	Limit
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FCC 47 CFR Part 15.247(d)	20dB below peak output power in 100KHz bandwidth
---------------------------	--

A.5.2 Test procedures

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.

Measurement Result:

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.412GHz	Fig 33.	P
		30MHz~26GHz	Fig 34.	P
	6	2.437GHz	Fig 35.	P
		30MHz~26GHz	Fig 36.	P
	11	2.462GHz	Fig 37.	P
		30MHz~26GHz	Fig 38.	P
802.11g	1	2.412GHz	Fig 39.	P

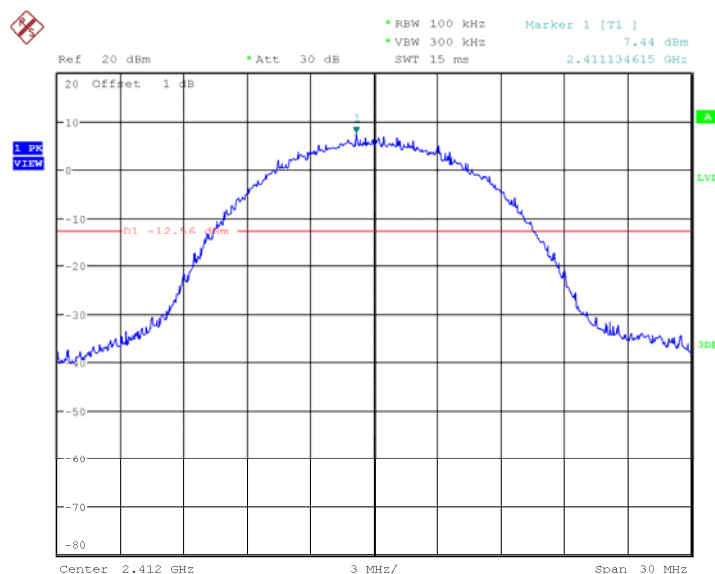
		30MHz~26GHz	Fig 40.	P
		2.437GHz	Fig 41.	P
	6	30MHz~26GHz	Fig 42.	P
	11	2.462GHz	Fig 43.	P
		30MHz~26GHz	Fig 44.	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(20MHz)	1	2.412GHz	Fig 45.	P
		30MHz~26GHz	Fig 46.	P
	6	2.437GHz	Fig 47.	P
		30MHz~26GHz	Fig 48.	P
	11	2.462GHz	Fig 49.	P
		30MHz~26GHz	Fig 50.	P
802.11n(40MHz)	3	2.422GHz	Fig 51.	P
		30MHz~26GHz	Fig 52.	P
	6	2.437GHz	Fig 53.	P
		30MHz~26GHz	Fig 54.	P
	9	2.452GHz	Fig 55.	P
		30MHz~26GHz	Fig 56.	P

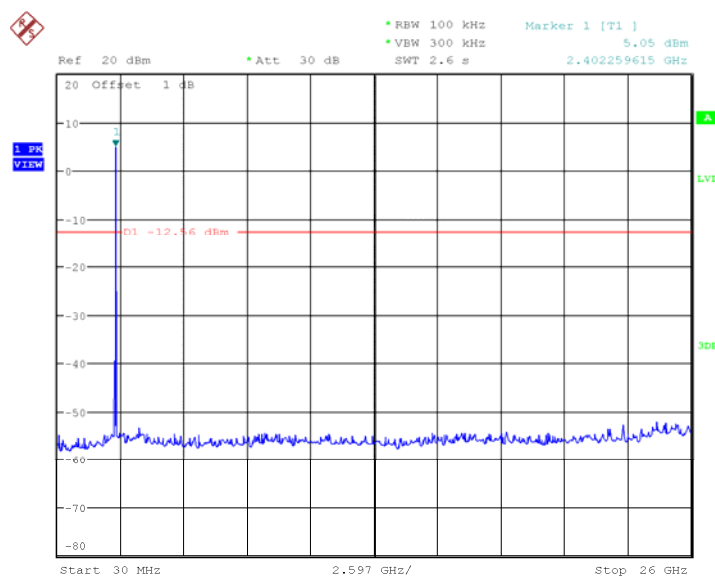
Conclusion: PASS

Test graphs as below:



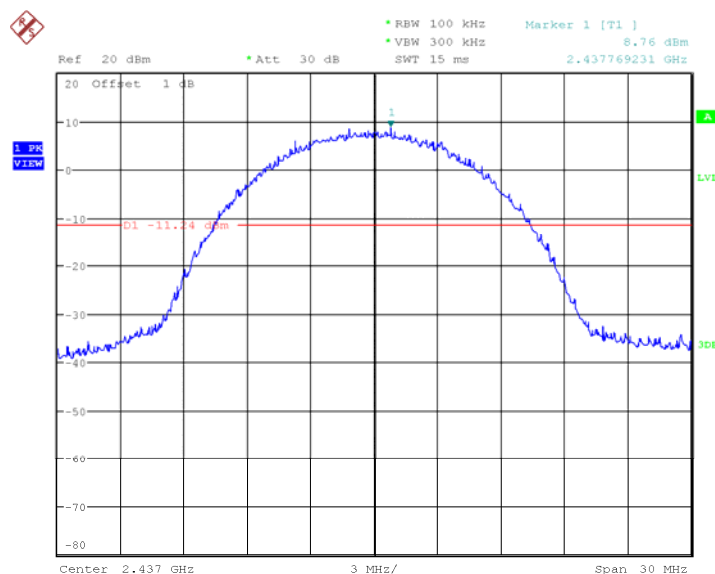
Date: 1.FEB.2019 14:07:04

Fig 33. Conducted Spurious Emission (802.11b, Ch1)



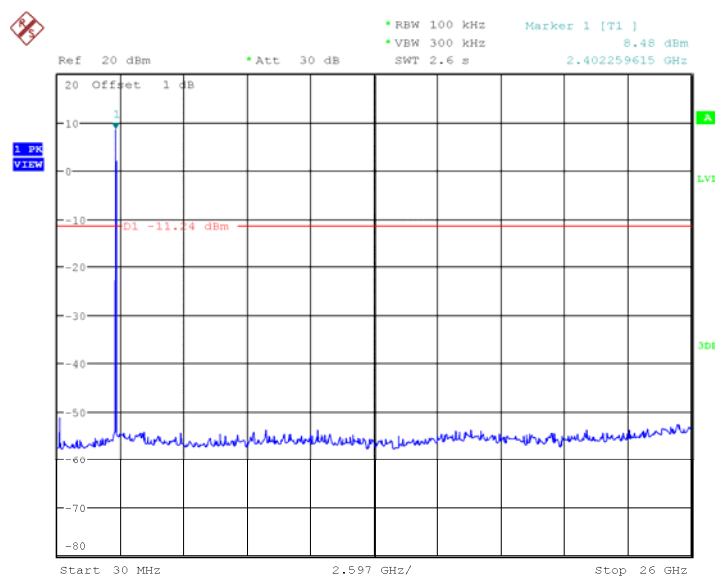
Date: 1.FEB.2019 14:08:14

Fig 34. Conducted Spurious Emission (802.11b, Ch1, 30MHz~26GHz)



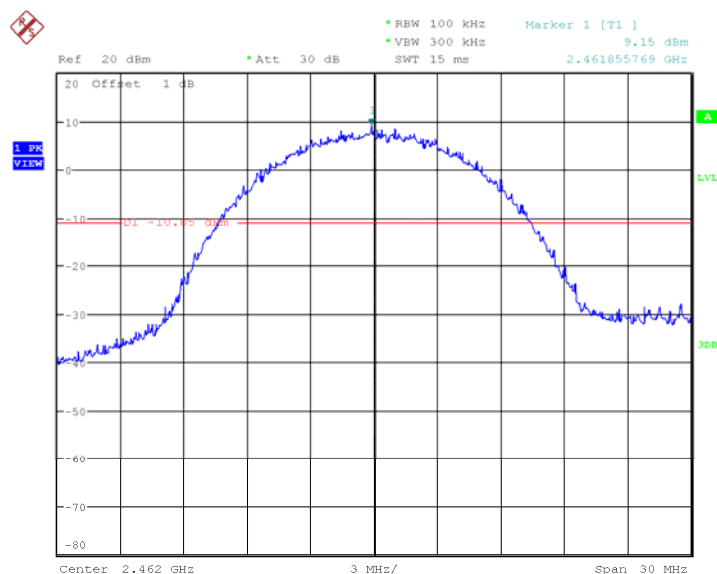
Date: 1.FEB.2019 14:09:09

Fig 35. Conducted Spurious Emission (802.11b, Ch6)



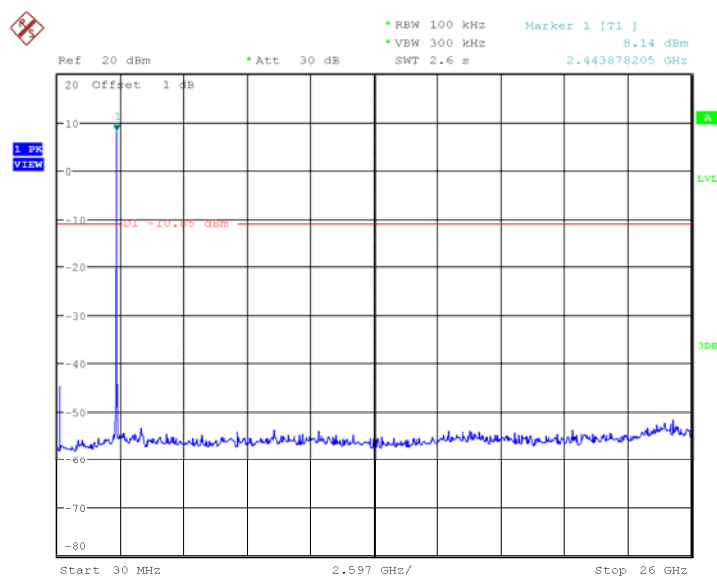
Date: 1.FEB.2019 14:10:27

Fig 36. Conducted Spurious Emission (802.11b, Ch6, 30MHz~26GHz)



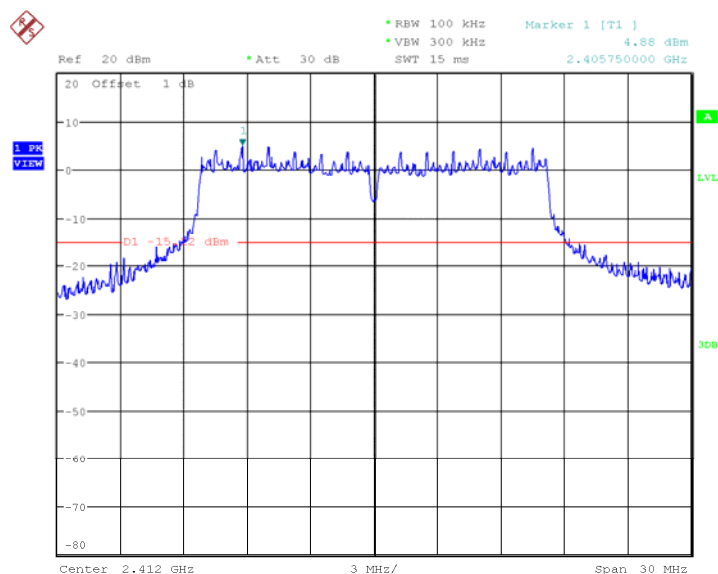
Date: 1.FEB.2019 14:11:24

Fig 37. Conducted Spurious Emission (802.11b, Ch11)



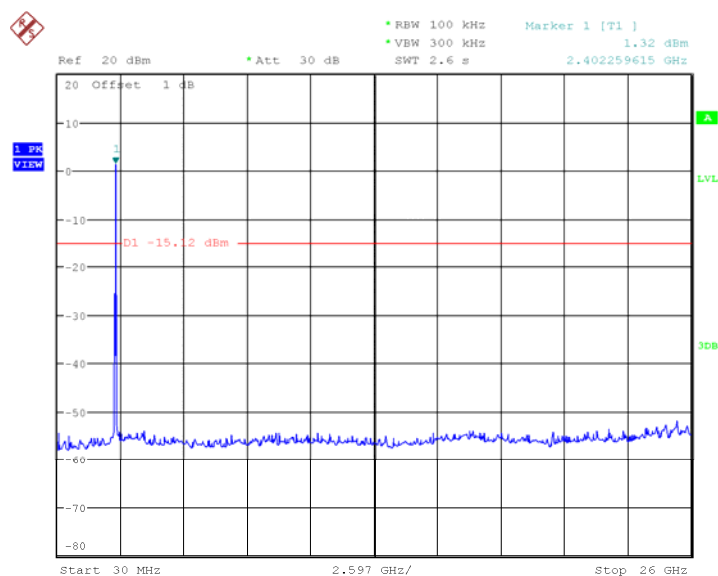
Date: 1.FEB.2019 14:12:35

Fig 38. Conducted Spurious Emission (802.11b, Ch11, 30MHz~26GHz)



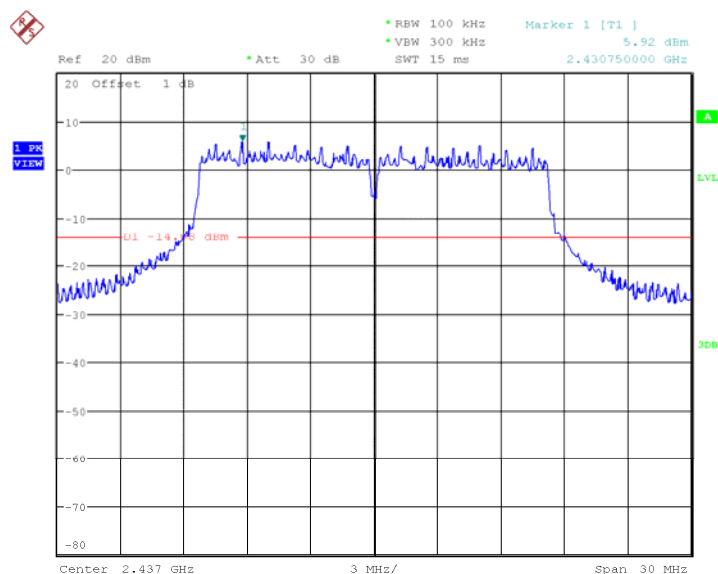
Date: 1.FEB.2019 14:13:37

Fig 39. Conducted Spurious Emission (802.11g, Ch1)



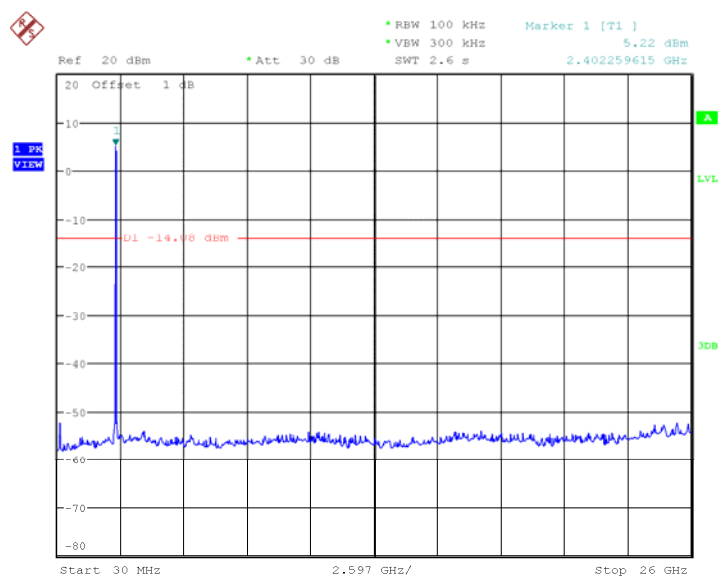
Date: 1.FEB.2019 14:14:49

Fig 40. Conducted Spurious Emission (802.11g, Ch1, 30MHz~26GHz)



Date: 1.FEB.2019 14:15:45

Fig 41. Conducted Spurious Emission (802.11g, Ch6)



Date: 1.FEB.2019 14:17:02

Fig 42. Conducted Spurious Emission (802.11g, Ch6, 30MHz~26GHz)



Fig 43. Conducted Spurious Emission (802.11g, Ch11)

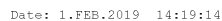
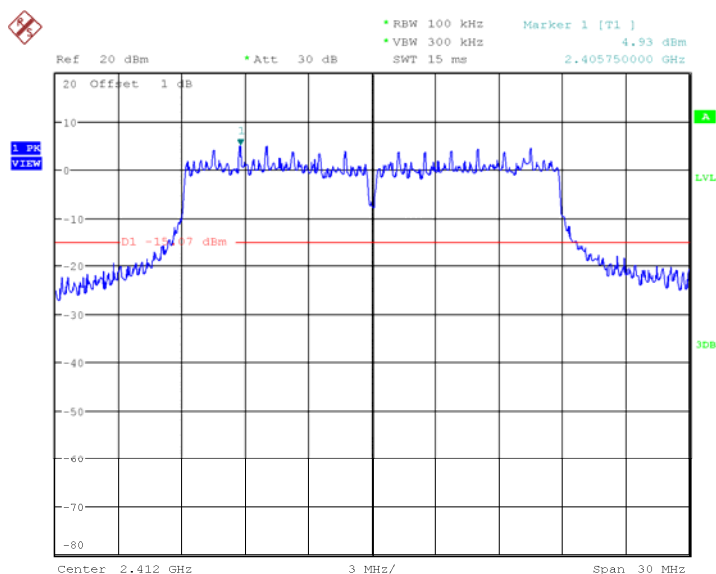
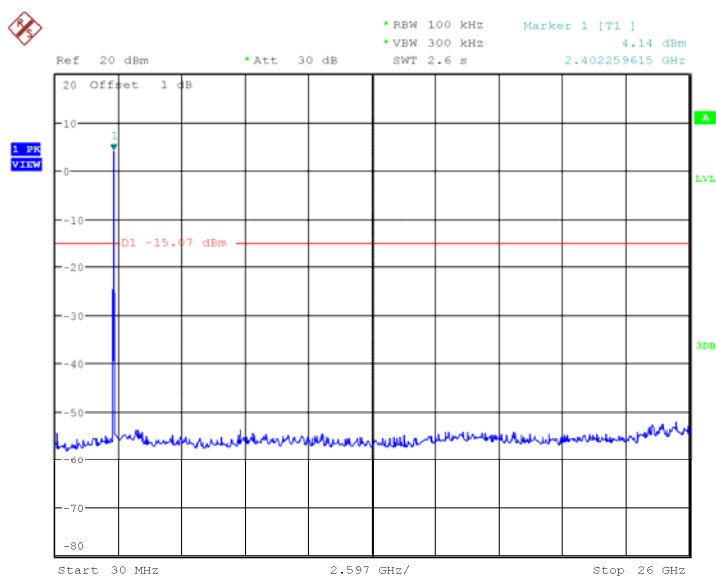


Fig 44. Conducted Spurious Emission (802.11g, Ch11, 30MHz~26GHz)



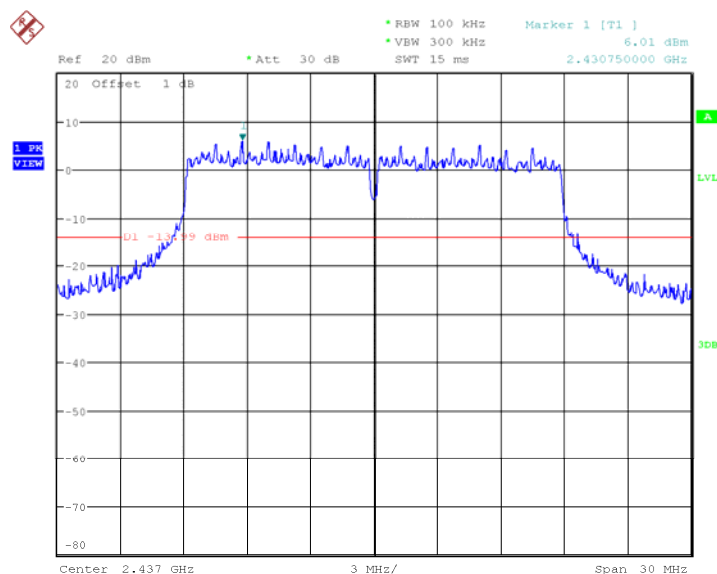
Date: 1.FEB.2019 14:20:18

Fig 45. Conducted Spurious Emission (802.11n-20MHz, Ch1)



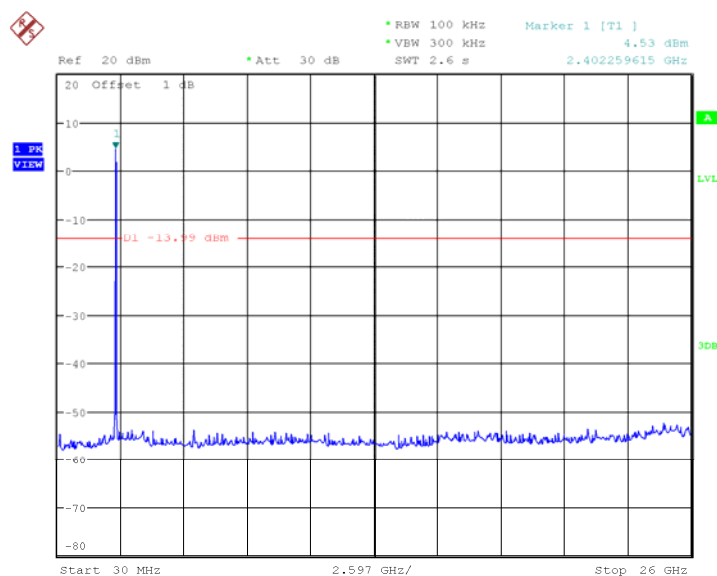
Date: 1.FEB.2019 14:21:29

Fig 46. Conducted Spurious Emission (802.11n-20MHz, Ch1, 30MHz~26GHz)



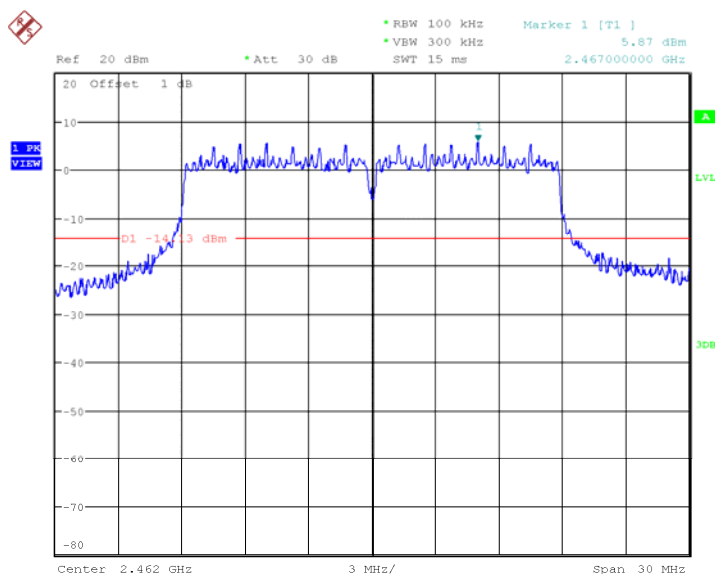
Date: 1.FEB.2019 14:22:27

Fig 47. Conducted Spurious Emission (802.11n-20MHz, Ch6)



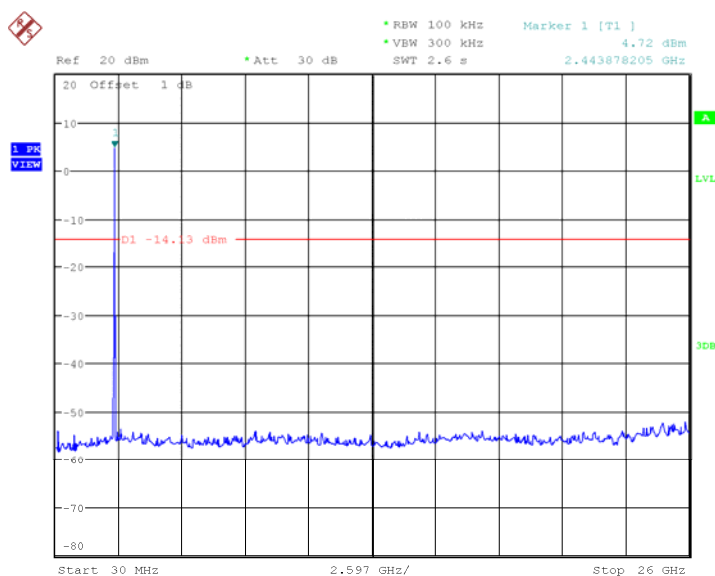
Date: 1.FEB.2019 14:23:45

Fig 48. Conducted Spurious Emission (802.11n-20MHz, Ch6, 30MHz~26GHz)



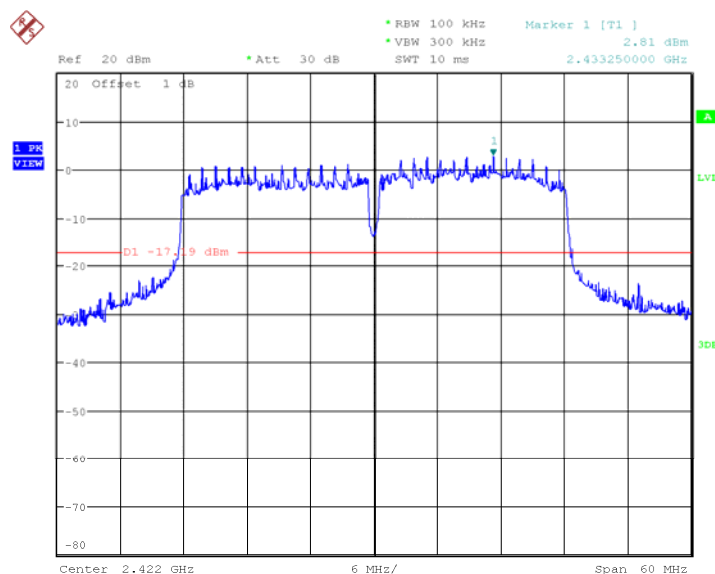
Date: 1.FEB.2019 14:25:03

Fig 49. Conducted Spurious Emission (802.11n-20MHz, Ch11)



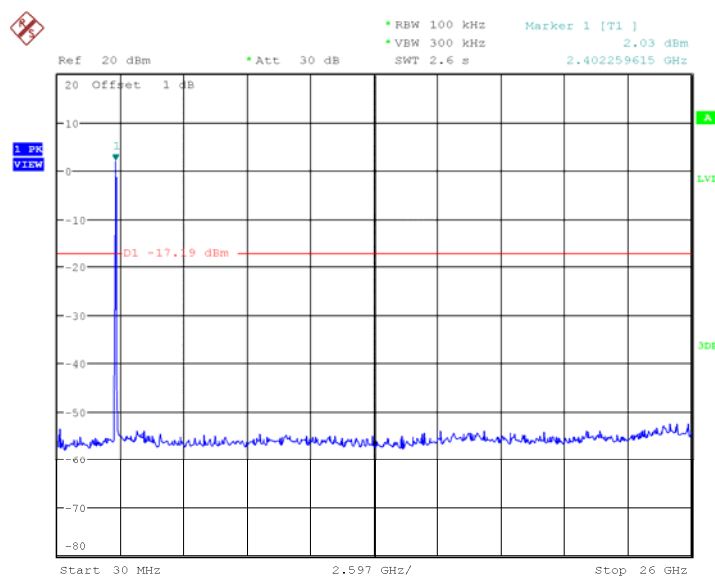
Date: 1.FEB.2019 14:26:13

Fig 50. Conducted Spurious Emission (802.11n-20MHz, Ch11, 30MHz~26GHz)



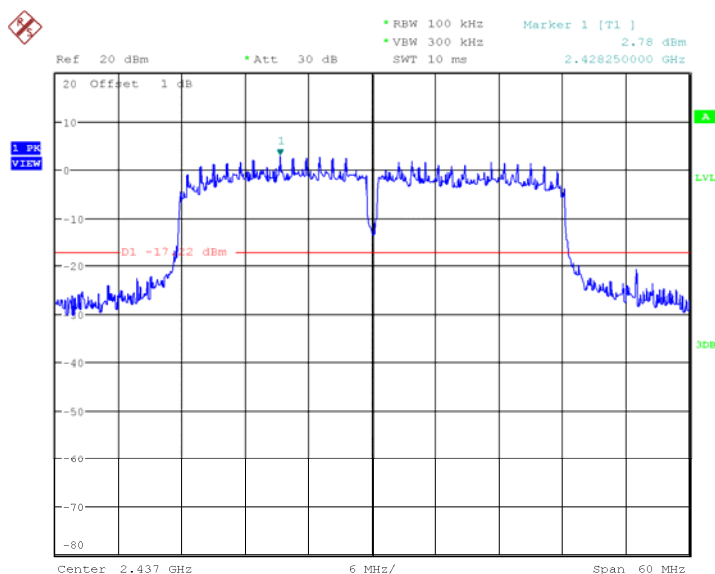
Date: 1.FEB.2019 14:27:20

Fig 51. Conducted Spurious Emission (802.11n-40MHz, Ch3)



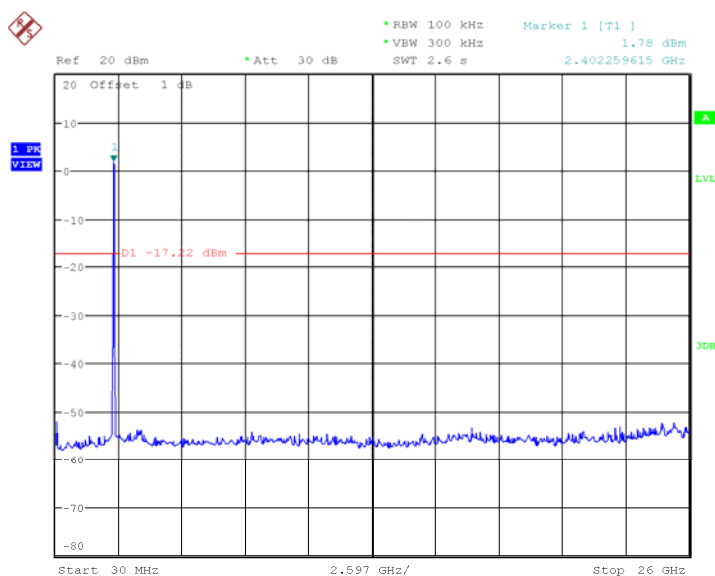
Date: 1.FEB.2019 14:28:31

Fig 52. Conducted Spurious Emission (802.11n-40MHz, Ch3, 30MHz~26GHz)



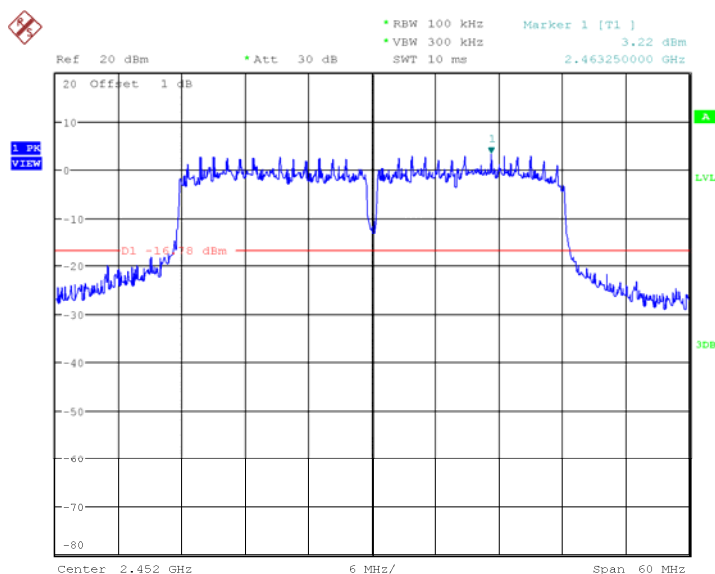
Date: 1.FEB.2019 14:29:24

Fig 53. Conducted Spurious Emission (802.11n-40MHz, Ch6)



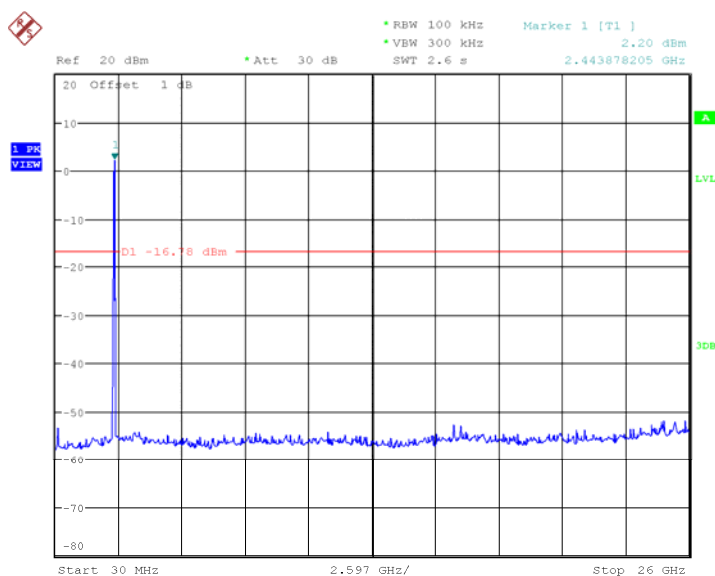
Date: 1.FEB.2019 14:30:42

Fig 54. Conducted Spurious Emission (802.11n-40MHz, Ch6, 30MHz~26GHz)



Date: 1.FEB.2019 14:31:35

Fig 55. Conducted Spurious Emission (802.11n-40MHz, Ch9)



Date: 1.FEB.2019 14:32:46

Fig 56. Conducted Spurious Emission (802.11n-40MHz, Ch9, 30MHz~26GHz)

ANNEX A.6. Transmitter Spurious Emission-Radiated

A.6.1 Measurement Limit:

Standard	Limit
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FCC 47 CFR Part 15.247,15.205,15.209	20dB below peak output power
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In addition, radiated emissions which fall in the restricted bands, as defined in 25.205(a), must also comply with the radiated emission limits specified in 15.209(a)(see 15.205(c)).

The measurement is according to ANSI C63.10 clause 11.11 and 11.12.

A.6.2 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

A.6.3 Test procedures

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 nonconducting 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. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.4-2013 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 testing, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emission 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 Times (s)
30~1000	100KHz/300KHz	5
1000~4000	1MHz/3MHz	15
4000~18000	1MHz/3MHz	40
18000~26500	1MHz/3MHz	20

802.11b/g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
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802.11b	Power (low)	2.31GHz~2.5GHz	Fig 57.	P
	Power (high)	2.31GHz~2.5GHz	Fig 58.	P
	11	30MHz~1GHz	Fig 59.	P
		1GHz~3GHz	Fig 60.	P
		3GHz~18GHz	Fig 61.	P
802.11g	Power (low)	2.31GHz~2.5GHz	Fig 62.	P
	Power (high)	2.31GHz~2.5GHz	Fig 63.	P
	11	30MHz~1GHz	Fig 64.	P
		1GHz~3GHz	Fig 65.	P
		3GHz~18GHz	Fig 66.	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(20MHz)	Power (low)	2.31GHz~2.5GHz	Fig 67.	P
	Power (high)	2.31GHz~2.5GHz	Fig 68.	P
	11	30MHz~1GHz	Fig 69.	P
		1GHz~3GHz	Fig 70.	P
		3GHz~18GHz	Fig 71.	P
802.11n(40MHz)	Power (low)	2.31GHz~2.5GHz	Fig 72.	P
	Power (high)	2.31GHz~2.5GHz	Fig 73.	P
	9	30MHz~1GHz	Fig 74.	P
		1GHz~3GHz	Fig 75.	P
		3GHz~18GHz	Fig 76.	P

Conclusion: PASS

Note:

A "reference path loss" is established and A_{Rpi} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

ARpi = Cable loss + Antenna Gain-Preamplifier gain

Result = P_{Mea} + Cable loss + Antenna Gain-Preamplifier gain = P_{Mea} + ARpi .

802.11b mode

Ch11 30MHz~1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
34.2	28.22	-22	50.22	V
36.1	37.3	-21.7	59	V
73.2	27.42	-25.8	53.22	V
95.7	23.3	-24.2	47.5	V
240.0	30.84	-23	53.84	V
722.3	27.83	-12.4	40.23	V

Ch11 1GHz~3GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2620.6	54.09	7.5	46.59	V
2653.2	54.73	7.7	47.03	H
2727.1	54.16	7.8	46.36	H
2783.7	54.89	7.8	47.09	V
2849.0	54.96	8.3	46.66	H
2920.9	56.06	8.8	47.26	V

Ch11 1GHz~3GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2620.6	42.01	7.5	34.51	V
2653.2	42.46	7.7	34.76	H
2727.1	42.37	7.8	34.57	H
2783.7	42.52	7.8	34.72	V
2849.0	42.79	8.3	34.49	H
2920.9	43.45	8.8	34.65	V

Ch11 3GHz~18GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14283.3	54.4	20.5	33.9	V
14707.1	55.63	21.1	34.53	H
15367.5	56.2	22.4	33.8	H
16116.0	58.35	24.8	33.55	H
16959.1	60.48	27.2	33.28	H
17561.0	60.39	27.7	32.69	V

Ch11 3GHz~18GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14283.3	42.49	20.5	21.99	V
14707.1	43.36	21.1	22.26	H
15367.5	43.42	22.4	21.02	H
16116.0	46.52	24.8	21.72	H
16959.1	48.12	27.2	20.92	H
17561.0	48.11	27.7	20.41	V

802.11g
Ch11 30MHz~1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
32.4	32.3	-22	54.3	V
35.7	39.45	-21.8	61.25	V
74.5	28.79	-26.1	54.89	V
95.4	26.27	-24.2	50.47	V
240.5	28.63	-23	51.63	V
477.8	26.94	-17.4	44.34	H

Ch11 1GHz~3GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
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2604.7	53.69	7.3	46.39	V
2643.0	54.52	7.7	46.82	V
2701.8	54.2	7.9	46.3	H
2766.6	54.45	7.8	46.65	H
2816.4	54.91	8	46.91	H
2874.4	55.74	8.6	47.14	V

Ch11 1GHz~3GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2643.0	42.36	7.7	34.66	V
2701.8	42.29	7.9	34.39	H
2766.6	42.25	7.8	34.45	H
2816.4	42.77	8	34.77	H
2874.4	43.2	8.6	34.6	V

Ch11 3GHz~18GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
13775.2	53.55	18.3	35.25	H
14342.7	54	20	34	H
15194.5	55.07	21.1	33.97	H
15989.6	59.08	25.3	33.78	V
17180.3	59.7	27.2	32.5	H
17850.2	60.06	27.8	32.26	V

Ch11 3GHz~18GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14342.7	41.8	20	21.8	H
15194.5	43.05	21.1	21.95	H
15989.6	47.17	25.3	21.87	V

17180.3	47.67	27.2	20.47	H
17850.2	47.64	27.8	19.84	V

802.11n-20MHz
Ch11 30MHz~1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
33.0	34.1	-22	56.1	V
35.6	30.83	-21.8	52.63	V
70.8	21.91	-25.1	47.01	V
96.1	21.45	-24.1	45.55	V
237.8	31.65	-23.1	54.75	V
478.2	28.86	-17.4	46.26	V

Ch11 1GHz~3GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2585.0	54.02	7.3	46.72	H
2650.4	54.28	7.7	46.58	V
2749.1	54.52	7.7	46.82	V
2850.2	55.11	8.3	46.81	V
2892.5	55.71	8.8	46.91	V
2999.6	58.1	9	49.1	H

Ch11 1GHz~3GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2585.0	41.86	7.3	34.56	H
2650.4	42.38	7.7	34.68	V
2749.1	42.48	7.7	34.78	V
2850.2	42.8	8.3	34.5	V
2892.5	43.49	8.8	34.69	V
2999.6	43.51	9	34.51	H

Ch11 3GHz~18GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
13803.7	53.41	18.6	34.81	H
14723.2	55.77	21	34.77	V
15451.4	55.96	22.7	33.26	H
16290.6	58.87	25.7	33.17	V
16993.4	60.12	27	33.12	V
17843.3	60.9	27.9	33	V

Ch11 3GHz~18GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14723.2	43.2	21	22.2	V
15451.4	43.76	22.7	21.06	H
16290.6	46.41	25.7	20.71	V
16993.4	48.03	27	21.03	V
17843.3	47.72	27.9	19.82	V

802.11n-40MHz
Ch9 30MHz~1GHz

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
32.8	34.63	-22	56.63	V
35.7	31	-21.8	52.8	V
175.9	23.23	-25.5	48.73	H
238.2	33.84	-23.1	56.94	V
481.1	28.47	-17.3	45.77	V
724.6	25.74	-12.3	38.04	H

Ch9 1GHz~3GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
----------------	----------------	-----------	--------------	----------

2668.8	54.86	7.8	47.06	V
2731.8	54.26	7.8	46.46	H
2788.4	54.68	7.8	46.88	H
2879.0	55.93	8.6	47.33	V
2928.5	55.83	8.7	47.13	H
2991.5	60.44	9	51.44	H

Ch9 1GHz~3GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2668.8	42.59	7.8	34.79	V
2731.8	42.45	7.8	34.65	H
2788.4	42.66	7.8	34.86	H
2879.0	43.32	8.6	34.72	V
2928.5	43.45	8.7	34.75	H
2991.5	43.56	9	34.56	H

Ch9 3GHz~18GHz(Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14907.5	55.86	20.5	35.36	H
15443.6	56.34	22.7	33.64	V
15896.4	57.47	24.1	33.37	V
16484.3	58.04	25.8	32.24	V
17244.0	59.41	27.2	32.21	H
17774.2	60.57	28.1	32.47	V

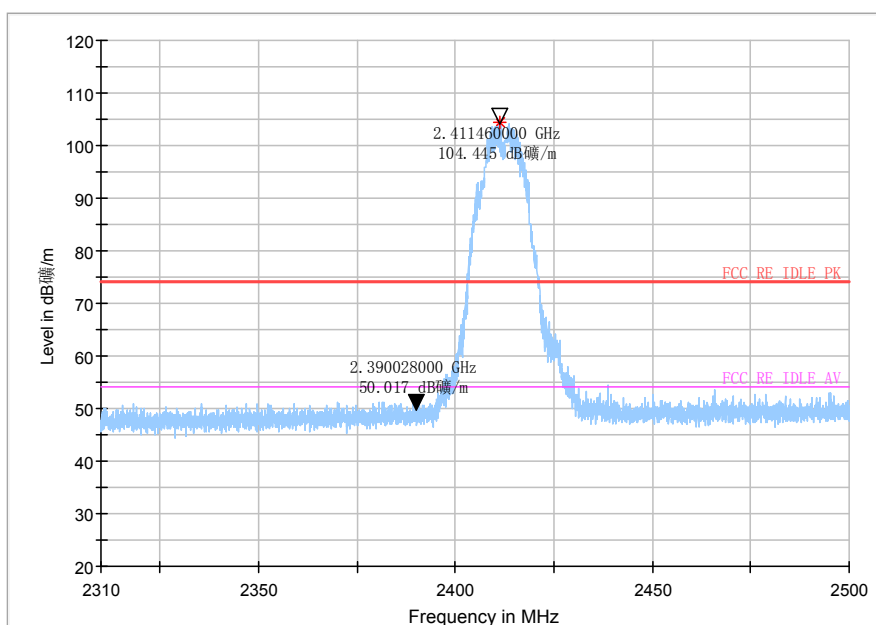
Ch9 3GHz~18GHz(Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14907.5	42.25	20.5	21.75	H
15443.6	43.99	22.7	21.29	V

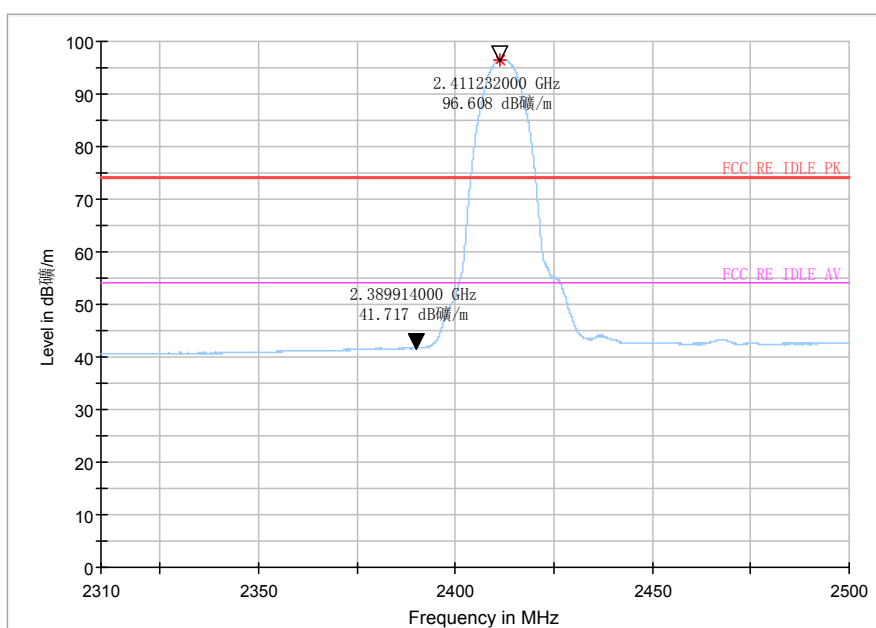
15896.4	45.53	24.1	21.43	V
16484.3	45.96	25.8	20.16	V
17244.0	47.52	27.2	20.32	H
17774.2	47.49	28.1	19.39	V

Note: Only the worst case is written in the report.

Test graphs as below:

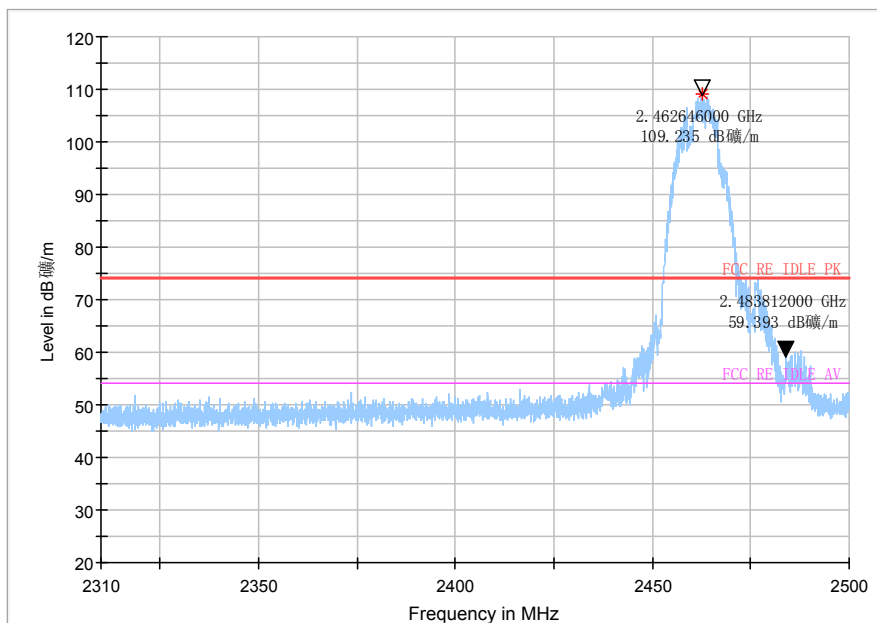


Peak detector

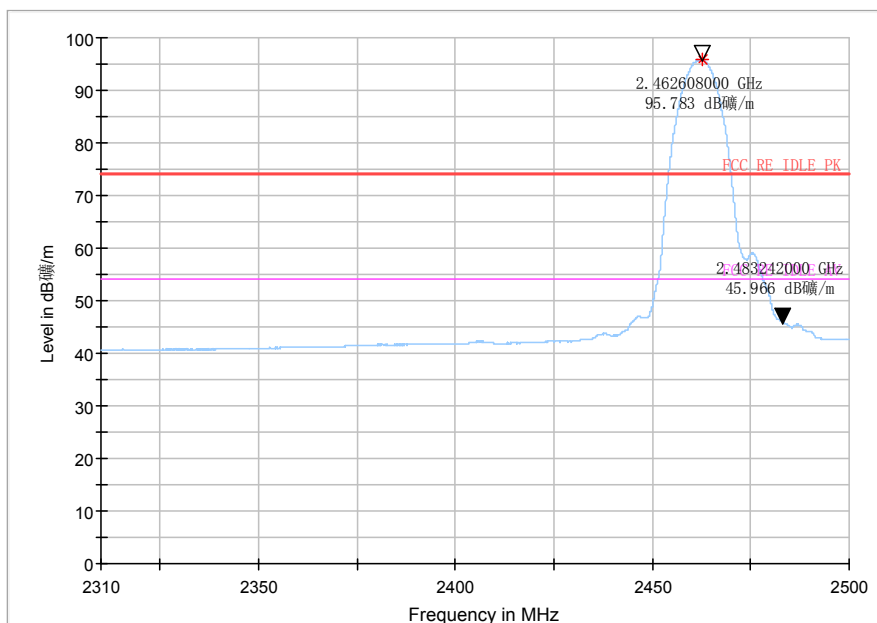


AV detector

Fig 57. Radiated emission (Power): 802.11b, low channel



Peak detector



AV detector

Fig 58. Radiated emission (Power): 802.11b, high channel

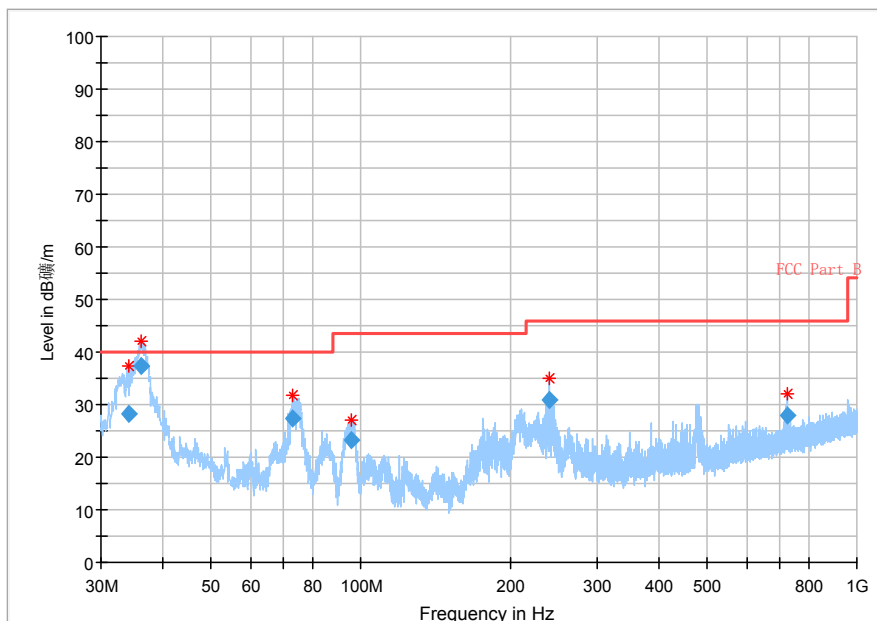


Fig 59. Radiated Spurious Emission (802.11b,Ch11,30MHz~1GHz)

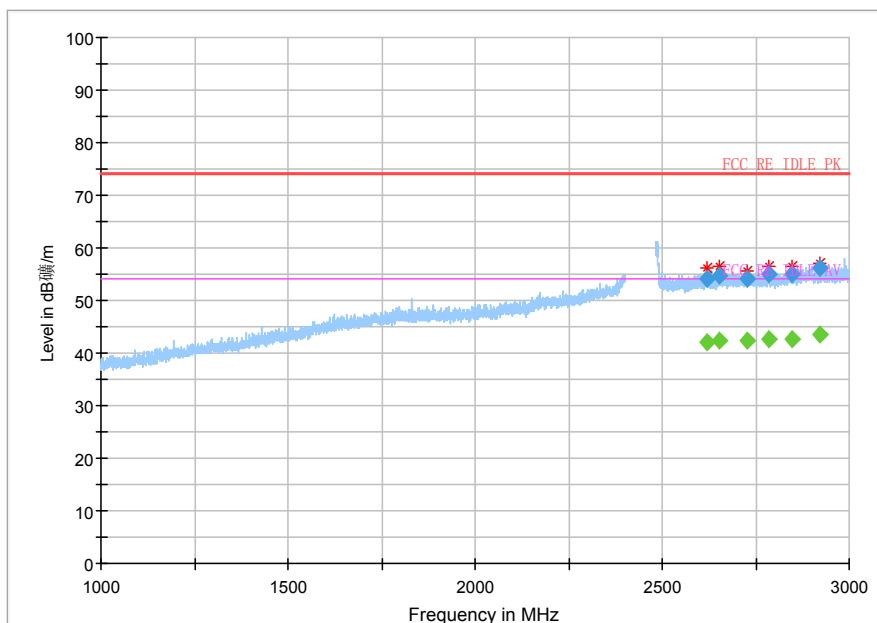


Fig 60. Radiated Spurious Emission (802.11b,Ch11,1GHz~3GHz)

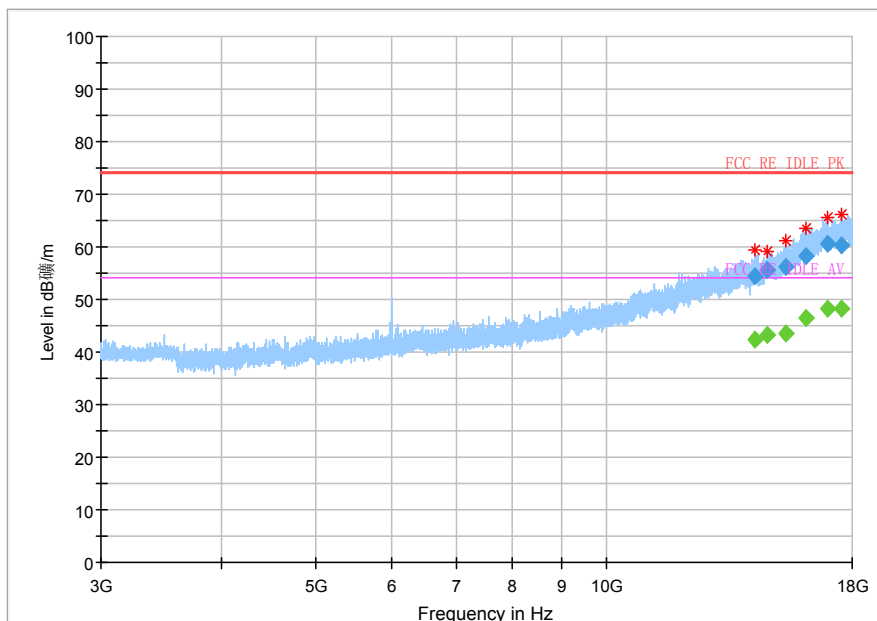
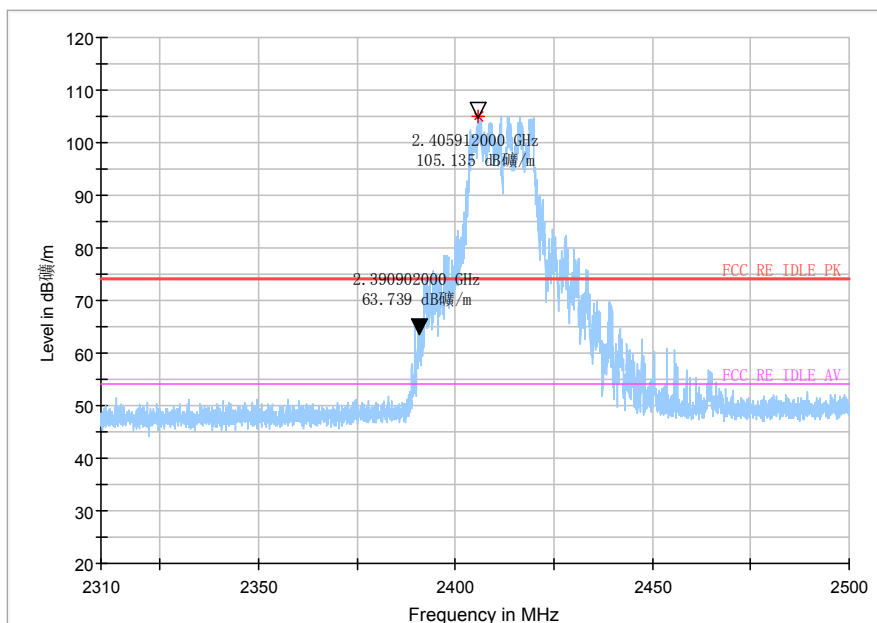
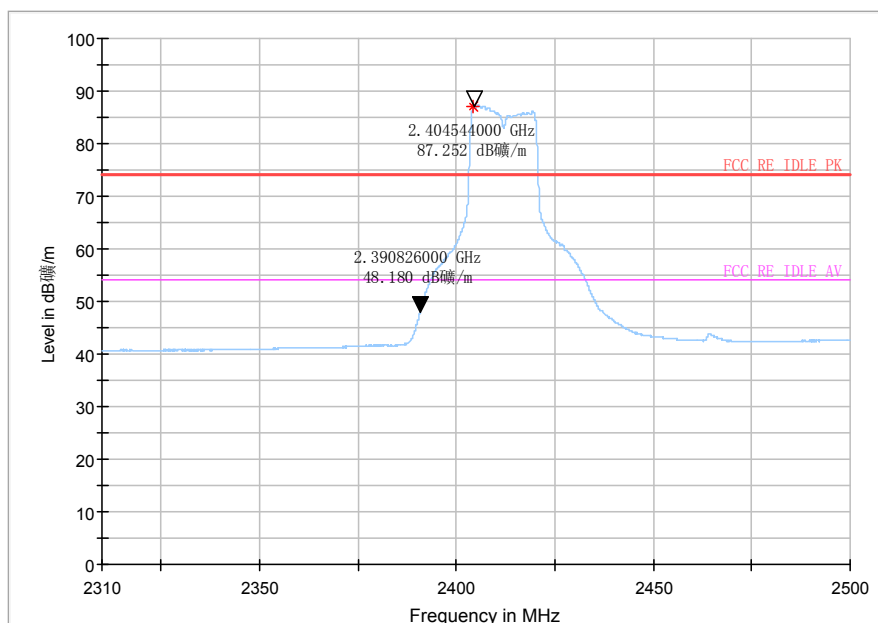


Fig 61. Radiated Spurious Emission (802.11b,Ch11,3GHz~18GHz)

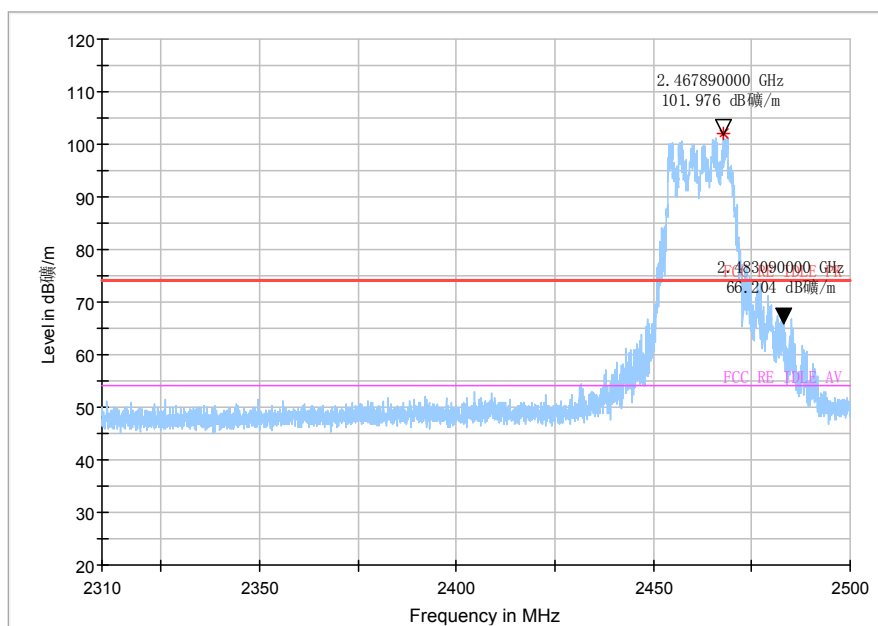


Peak detector

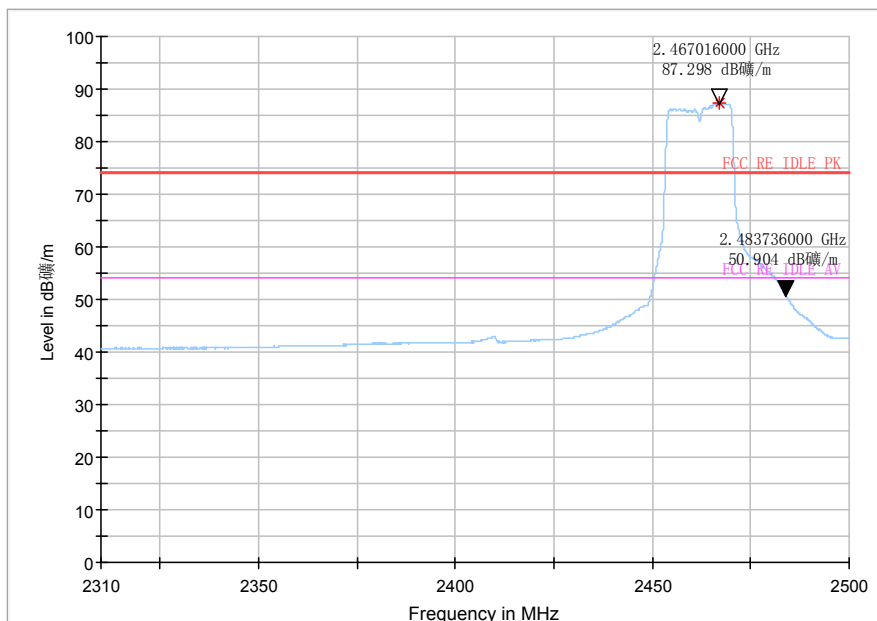


AV detector

Fig 62. Fig.102 Radiated emission (Power): 802.11g, low channel



Peak detector



AV detector

Fig 63. Radiated emission (Power): 802.11g, high channel

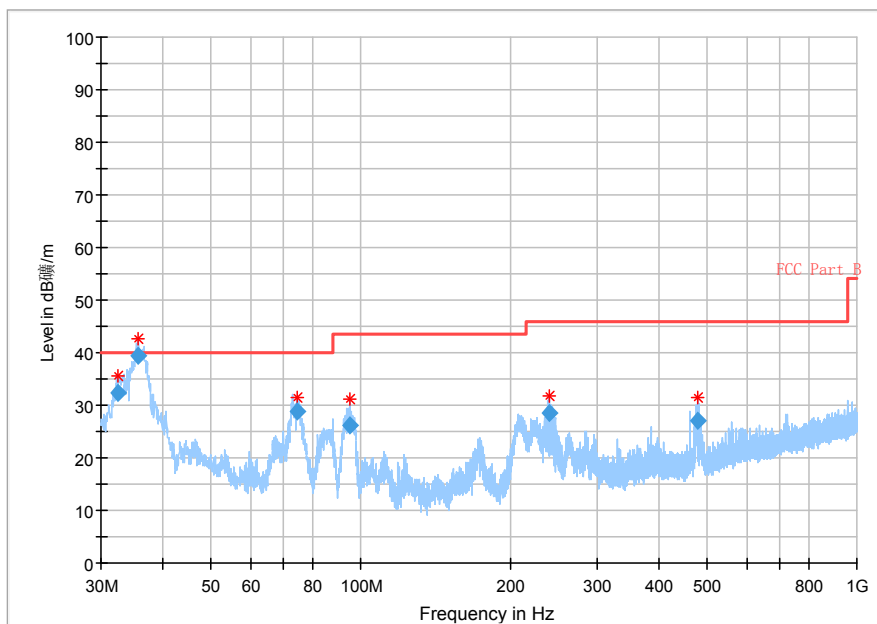


Fig 64. Radiated Spurious Emission (802.11g,Ch11,30MHz~1GHz)

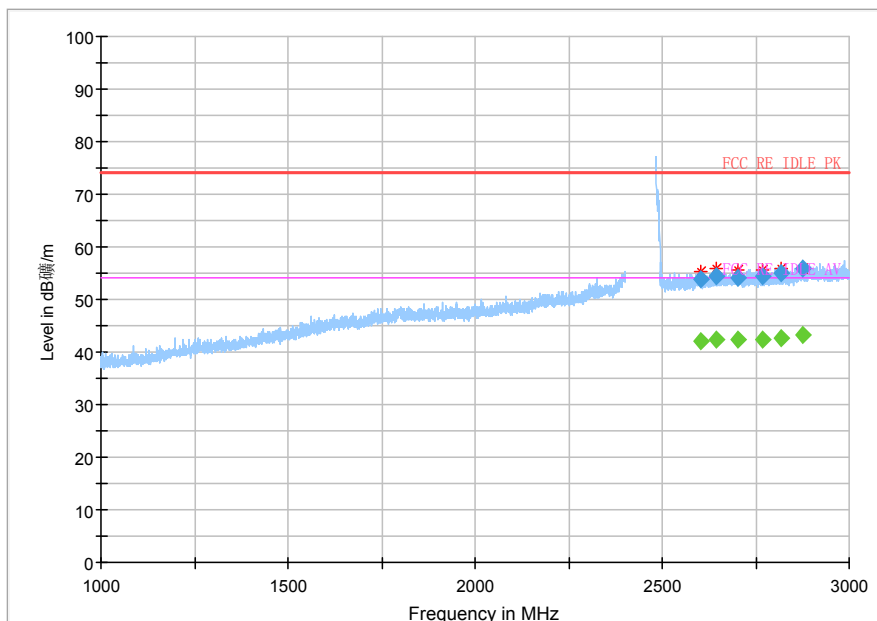


Fig 65. Radiated Spurious Emission (802.11g,Ch11,1GHz~3GHz)

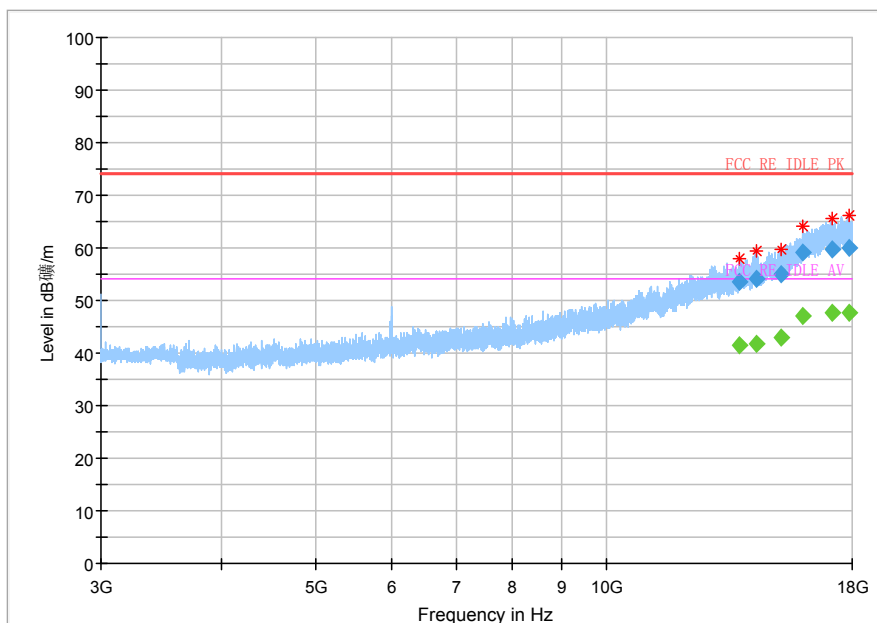
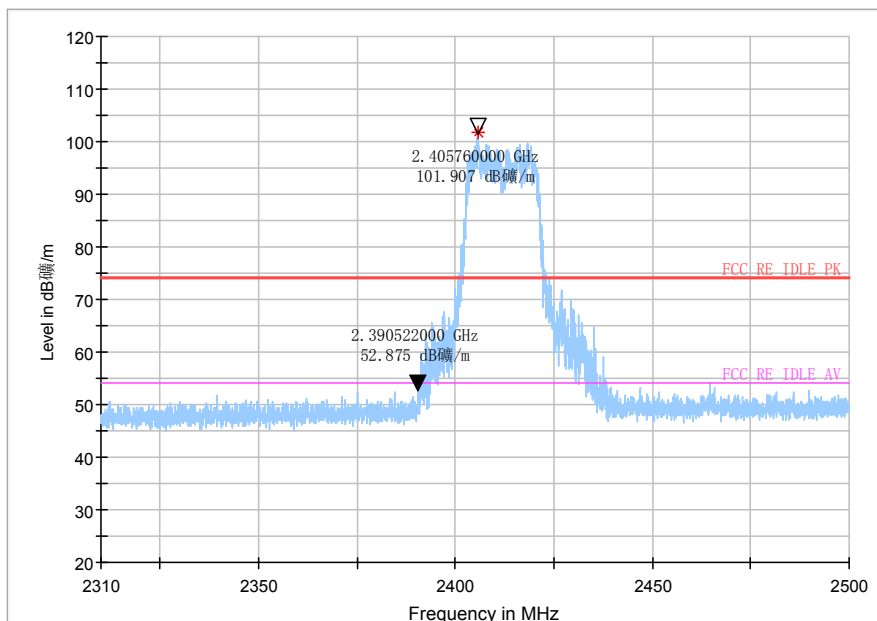
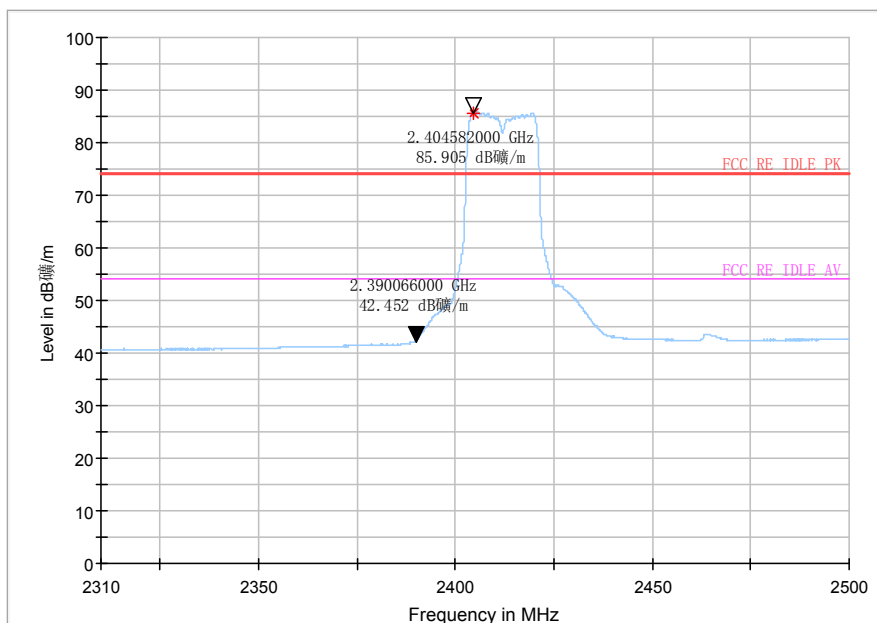


Fig 66. Radiated Spurious Emission (802.11g,Ch11,3GHz~18GHz)

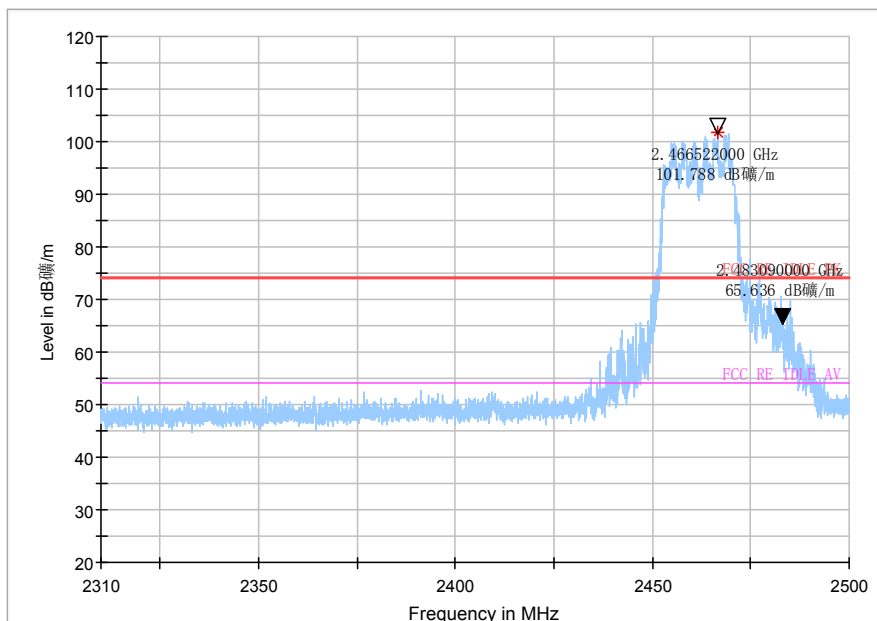


Peak detector

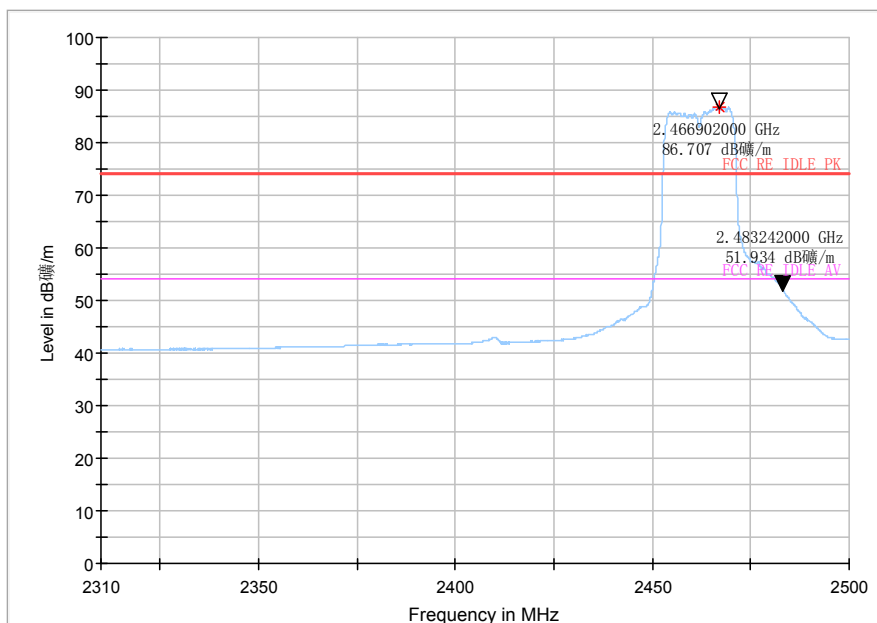


AV detector

Fig 67. Radiated emission (Power): 802.11n, low channel



Peak detector



AV detector

Fig 68. Radiated emission (Power): 802.11n, high channel

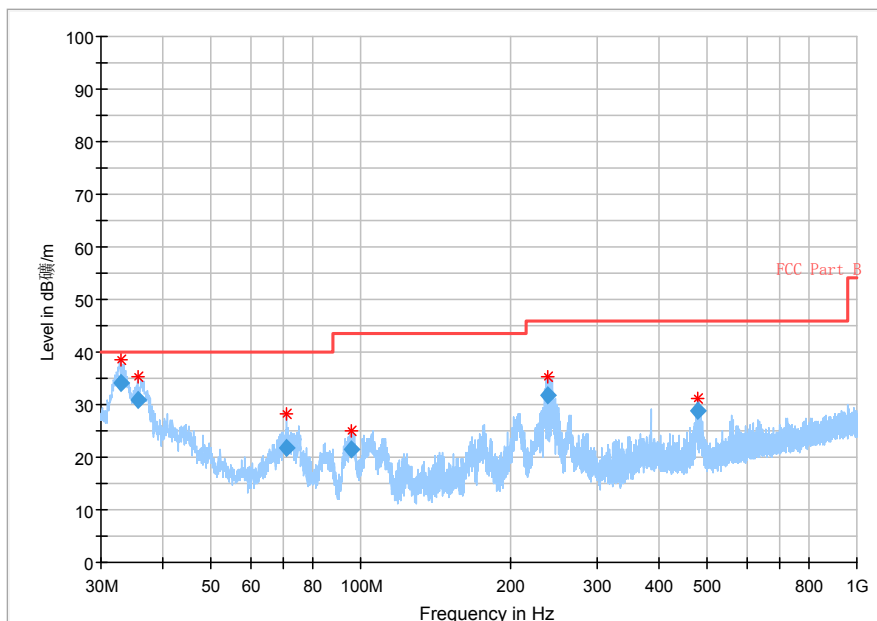


Fig 69. Radiated Spurious Emission (802.11 n-20MHz,Ch11,30MHz~1GHz)

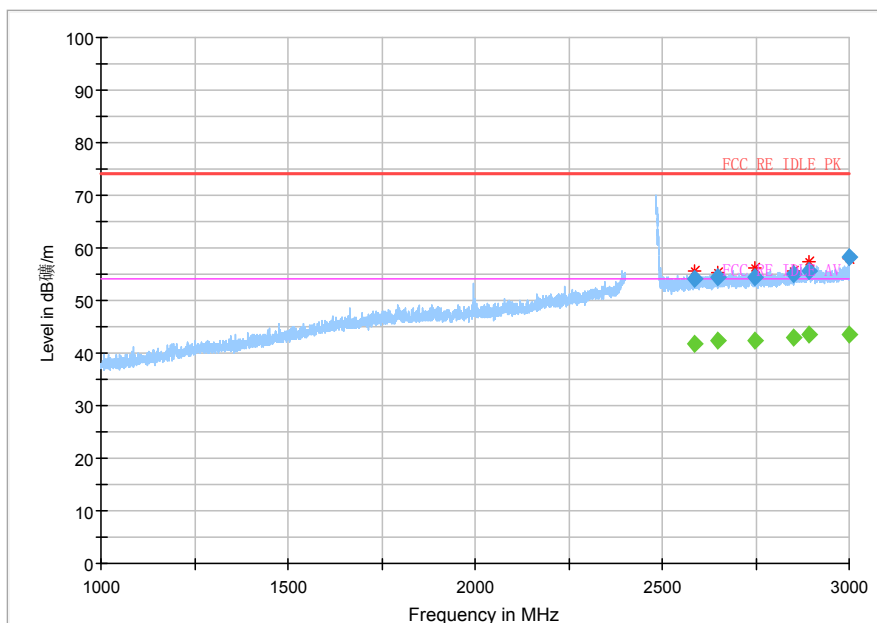


Fig 70. Radiated Spurious Emission (802.11 n-20MHz,Ch11,1GHz~3GHz)

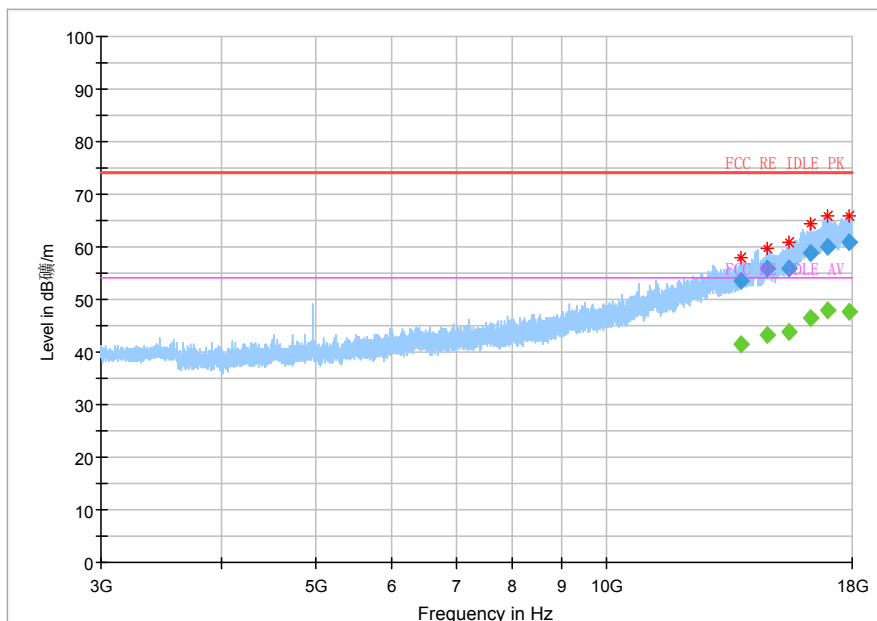
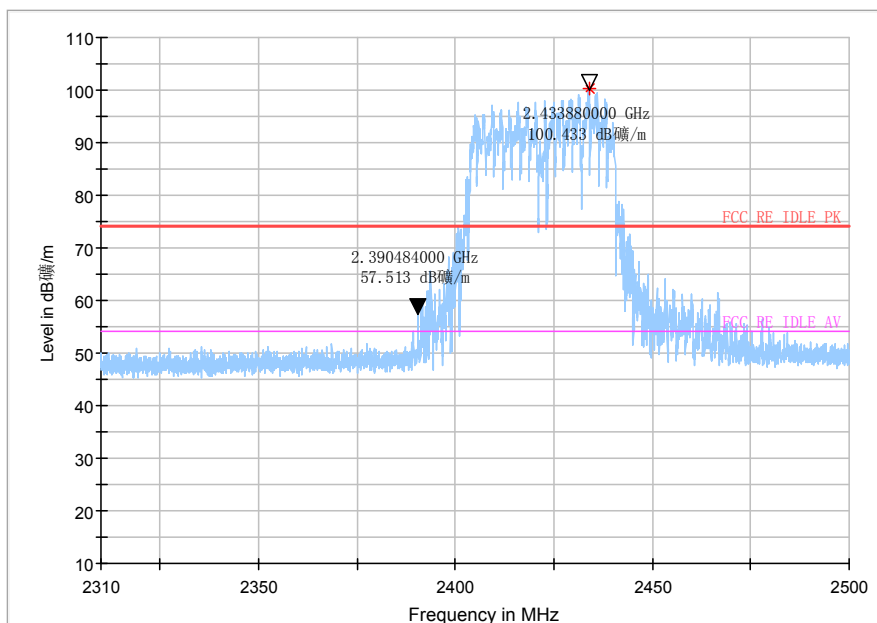
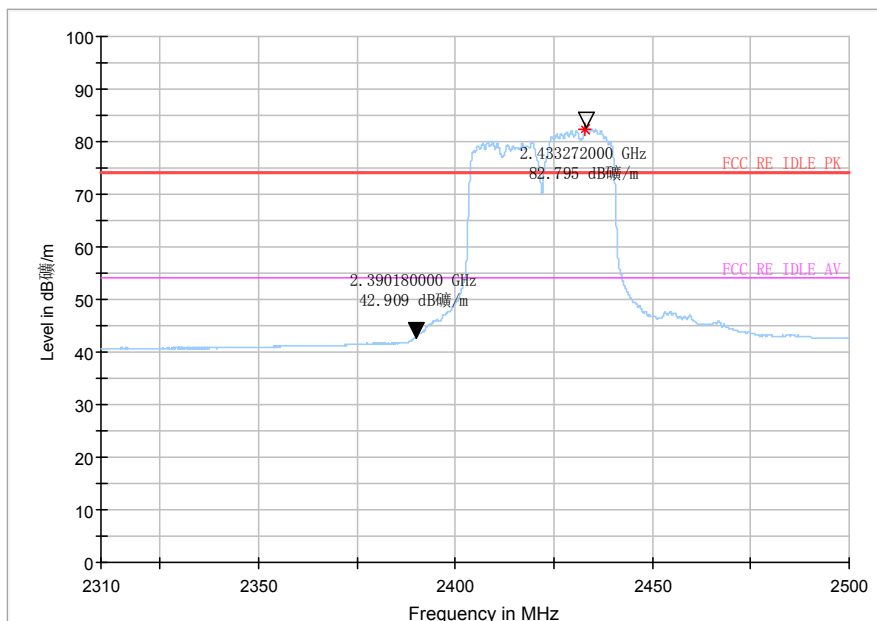


Fig 71. Radiated Spurious Emission (802.11 n-20MHz,Ch11,3GHz~18GHz)

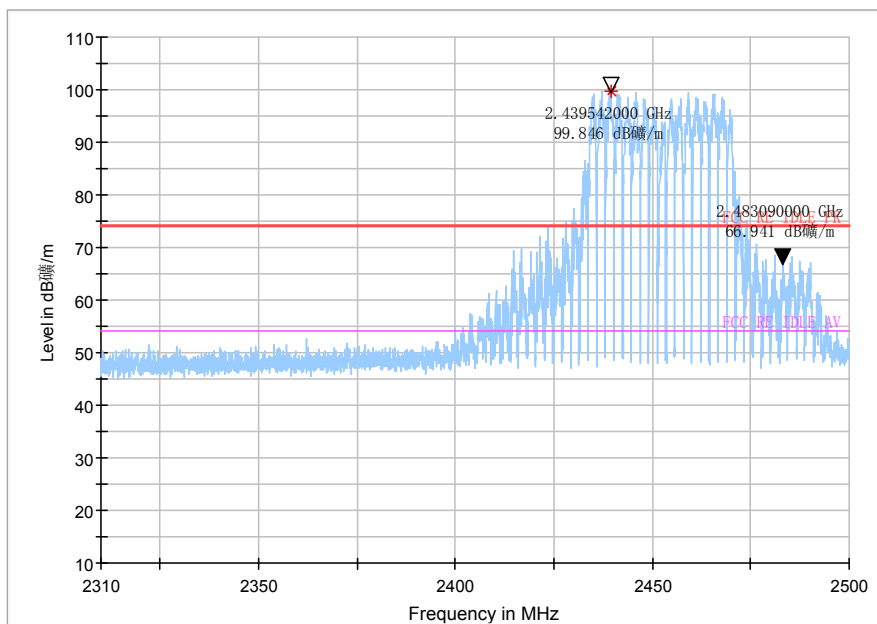


Peak detector

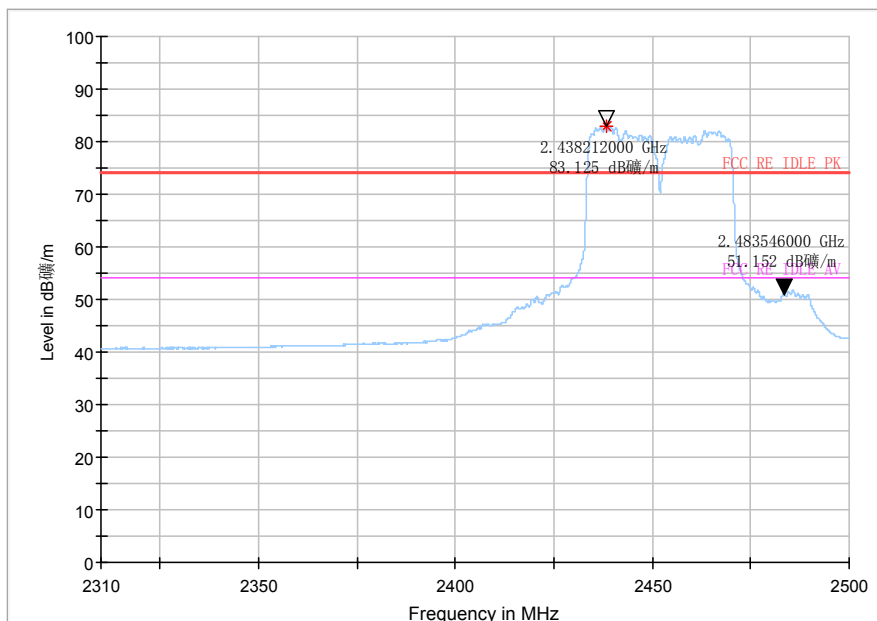


Average detector

Fig 72. Radiated emission (Power): 802.11n (40M) , low channel



Peak detector



Average detector

Fig 73. Radiated emission (Power): 802.11n (40M) , high channel

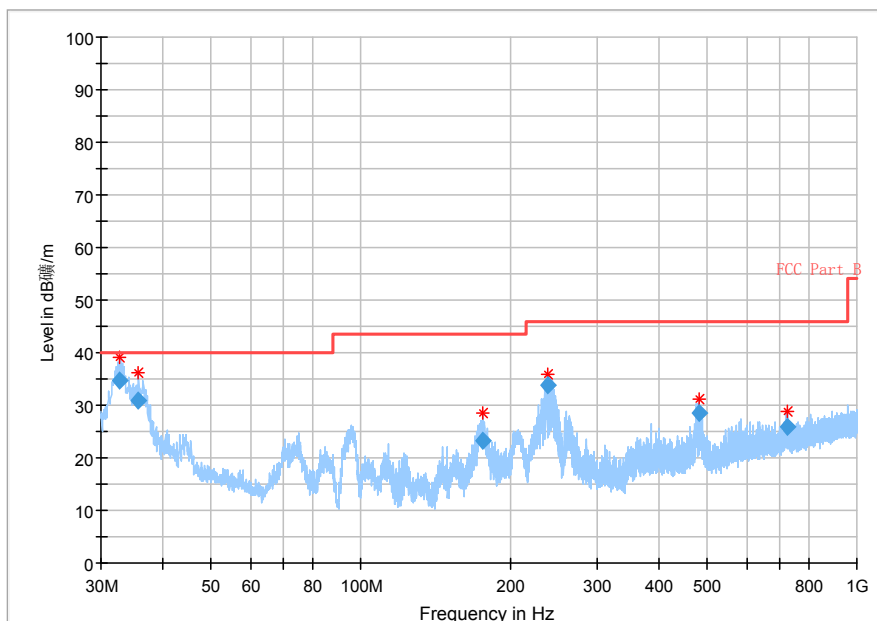


Fig 74. Radiated Spurious Emission (802.11 n-40MHz,Ch9,30MHz~1GHz)

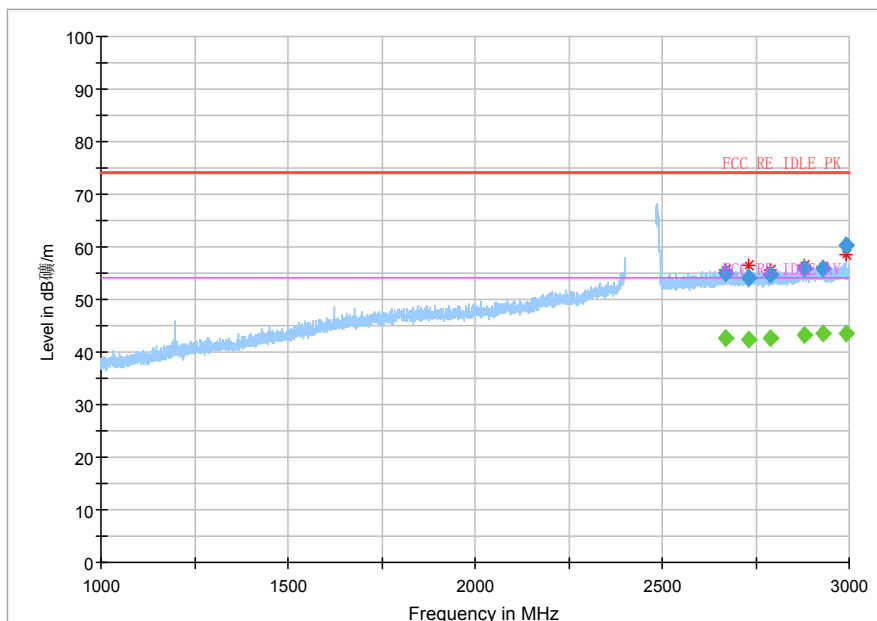


Fig 75. Radiated Spurious Emission (802.11 n-40MHz,Ch9,1GHz~3GHz)

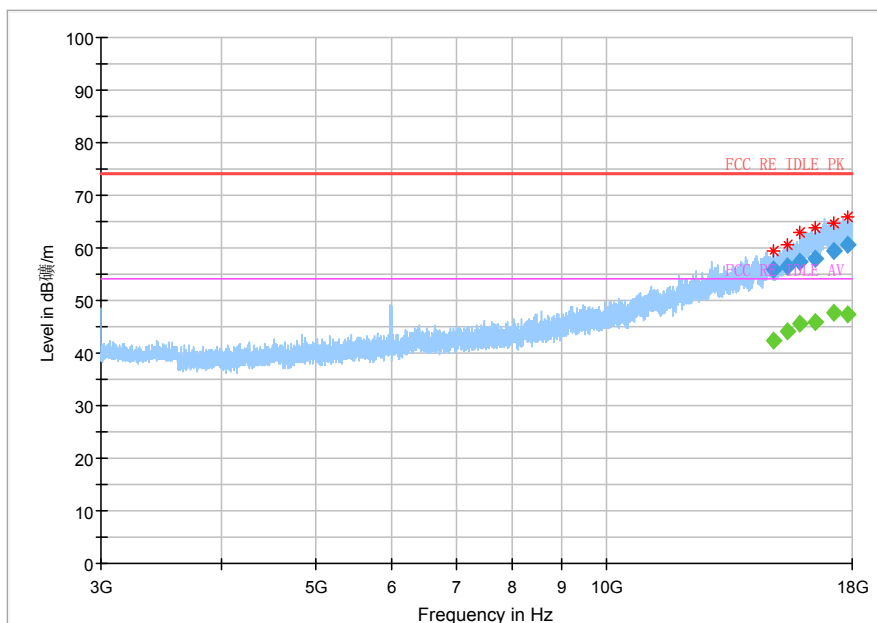
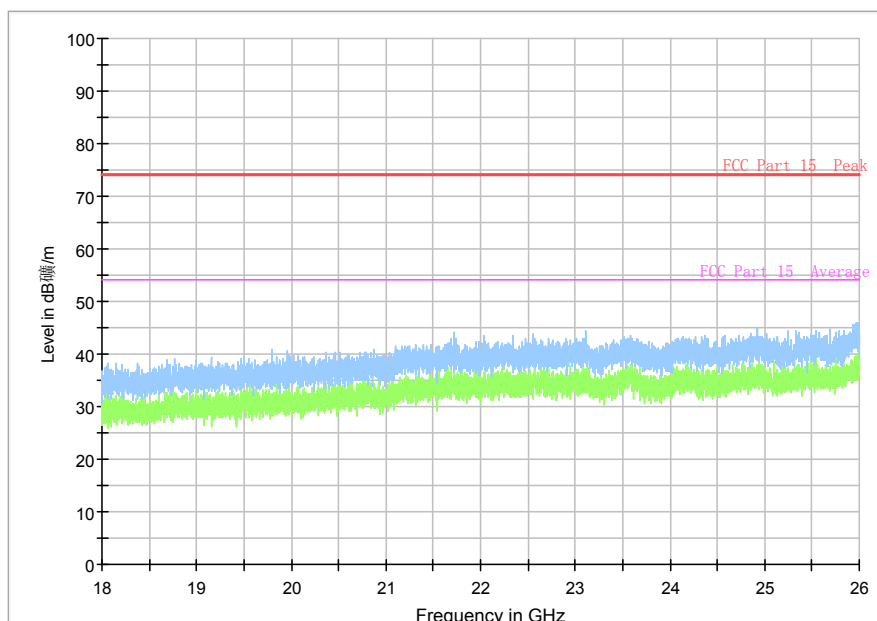


Fig 76. Radiated Spurious Emission (802.11 n-40MHz,Ch9,3GHz~18GHz)



All Channel

ANNEX A.7. AC Powerline Conducted Emission

Method of Measurement: See ANSI C63.10 clause 6.2

- 1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
- 2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
- 3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
- 4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.³⁶ Record the six highest EUT emissions relative to the limit of each of the

current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

(Quasi-peak-average Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			With charger	
			802.11b	
0.15 to 0.5	66 to 56	56 to 46	Fig 77.	P
0.5 to 5	56	46		
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Conclusion: Pass

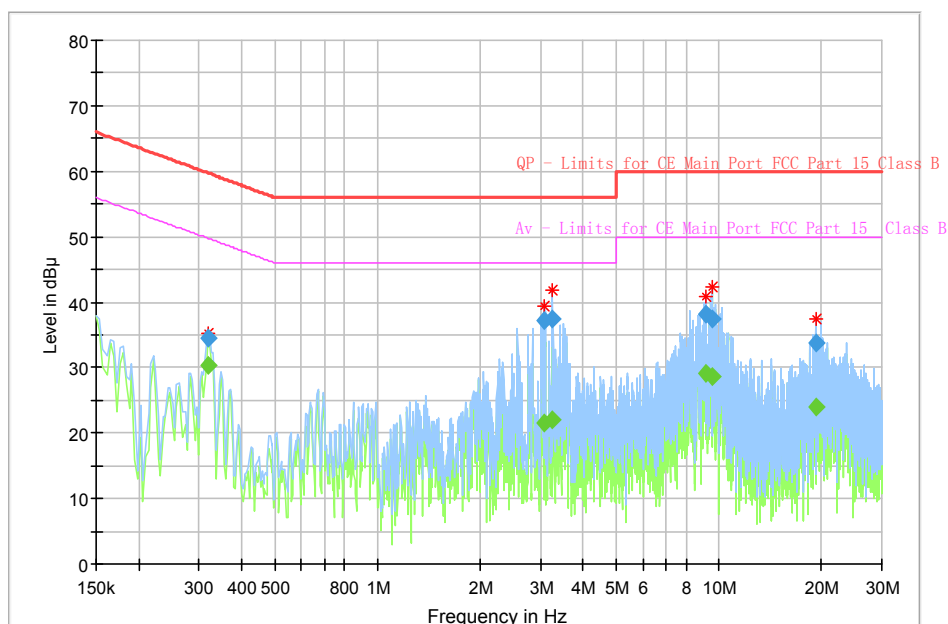


Fig 77. AC Powerline Conducted Emission

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB μ V)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.317906	---	30.24	49.76	19.52	1000.0	9.000	L1	ON	9.7
0.317906	34.44	---	59.76	25.33	1000.0	9.000	L1	ON	9.7
3.090225	---	21.62	46.00	24.38	1000.0	9.000	L1	ON	9.7

3.090225	37.14	---	56.00	18.86	1000.0	9.000	L1	ON	9.7
3.250669	37.44	---	56.00	18.56	1000.0	9.000	N	ON	9.7
3.250669	---	22.08	46.00	23.92	1000.0	9.000	N	ON	9.7
9.175894	---	29.09	50.00	20.91	1000.0	9.000	N	ON	9.8
9.175894	38.26	---	60.00	21.74	1000.0	9.000	N	ON	9.8
9.556481	---	28.59	50.00	21.41	1000.0	9.000	N	ON	9.8
9.556481	37.32	---	60.00	22.68	1000.0	9.000	N	ON	9.8
19.201763	33.83	---	60.00	26.17	1000.0	9.000	L1	ON	9.9
19.201763	---	23.95	50.00	26.05	1000.0	9.000	L1	ON	9.9

ANNEX B. Accreditation Certificate



*****End of the Report*****