

No. 1 Workshop, M-10, Middle section, Science & Report No.: HR/2018/B000303

Technology Park, Nanshan District, Shenzhen, Page: 1 of 206

Guangdong, China 518057

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FCC TEST REPORT

Application No: HR/2018/B0003

Applicant: Huawei Technologies Co.,Ltd

Address of Applicant Administration Buliding Headquarters of Huawei Technologies

Co.,Ltd.Bantian,longgang District 518129 Shenzhen PEOPLE'S

REPUBLIC OF CHINA

Manufacturer: Huawei Technologies Co.,Ltd

Address of Manufacturer Administration Buliding Headquarters of Huawei Technologies

Co.,Ltd.Bantian,longgang District 518129 Shenzhen PEOPLE'S

REPUBLIC OF CHINA

EUT Description: Mobile WiFi

Model No.: HW-01L

Trade Mark: HUAWEI

FCC ID: QISHW-01L

Standards: 47 CFR FCC Part 2, Subpart J

47 CFR Part 15, Subpart C

KDB558074 D01 15.247 Meas Guidance v05

Test Method ANSI C63.4

ANSI C63.10

Date of Receipt: 2018/11/8

Date of Test: 2018/11/8 to 2018/11/29

Date of Issue: 2018/12/11

Test Result: PASS *

Authorized Signature:

Derele yang

Derek Yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing

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^{. *} In the configuration tested, the EUT complied with the standards specified above.

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1 Version

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
00		2018/12/11		Original	

Authorized for issue by:		
Tested By	Mike Mu	2018/12/11
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2018/12/11
	(David Chen) /Reviewer	Date

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2 Test Summary

Test Item	Test Requirement	Test method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Duty Cycle	1	1	Clause 4.3	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d) ;15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d) ;15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS

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3 General Information

3.1 Client Information

Applicant:	Huawei Technologies Co.,Ltd
Address of Applicant:	Administration Buliding Headquarters of Huawei Technologies Co.,Ltd.Bantian,longgang District 518129 Shenzhen PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Huawei Technologies Co.,Ltd
Address of Manufacturer:	Administration Buliding Headquarters of Huawei Technologies Co.,Ltd.Bantian,longgang District 518129 Shenzhen PEOPLE'S REPUBLIC OF CHINA

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

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3.4 General Description of EUT

EUT Description::	Mobile WiFi		
Model No.:	HW-01L		
Trade Mark:	HUAWEI		
Hardware Version:	CL1SB08M01		
Software Version:	8.0.1.31 (H60SP11C736)		
IEEE 802.11 WLAN Mode Supported	 ⊠ 802.11B (20 MHz channel bandwidth), ⊠ 802.11G (20 MHz channel bandwidth) ⊠ 802.11N (20 MHz channel bandwidth), ⊠ 802.11N (40 MHz channel bandwidth) 		
Operation Frequency:	2400 MHz -2483.5MHz fc = 2407 MHz + N * 5 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 1 to 11 for the 20 MHz channel bandwidth, or 3 to 9 for the 40 MHz channel bandwidth.		
Type of Modulation:	IEEE for 802.11B: DSSS IEEE for 802.11G: OFDM IEEE for 802.11N(HT20 and HT20 MIMO): OFDM IEEE for 802.11N(HT20 and HT40 MIMO): OFDM		
Sample Type:	⊠ Portable Device,		
Antenna Type:	☐ External, ☑ Integrated		
Antenna Ports	⊠ Ant 1, ⊠ Ant 2, □ Ant 3		
Smart System	 SISO (for 802.11B/G/N), CDD (for 802.11G): 2 Tx, MIMO (for 802.11N): 2 Tx & 2 Rx, Diversity (for 802.11B/G): Tx & Rx 		
Antenna Gain:	ANT1: 2.8dBi, ANT2: 3.2dBi		
Power Supply	☐ AC/DC Adapter; ☑ Battery ☐ PoE:; ☐ Other:		

	Operation Frequency of each channel (802.11B/G/N HT20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
	Operation Frequency of each channel (802.11N HT40)						
Channel	Frequency	Channel	Frequency	Channel	Frequency		
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

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Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11B/G/N (HT20)	Frequency for 802.11N (HT40)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz

3.5 Test Environment and Mode

Operating Environment:			
Temperature:	25.0 °C		
Humidity:	50 % RH		
Atmospheric Pressure:	101.30 KPa		
Test mode:	Test mode:		
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.		

3.6 Description of Support Units

The EUT has been tested independent unit.

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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

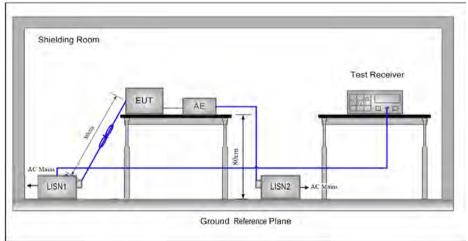
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is ANT1: 2.8dBi, ANT2: 3.2dBi.

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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:	150kHz to 30MHz			
	Frequency range (MHz)	Limit (dBuV)		
		Quasi-peak	Average	
I instit	0.15-0.5	66 to 56*	56 to 46*	
Limit:	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarith	nm of the frequency.		
	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the 			
ground reference plane. And for floor-splaced on the horizontal ground reference placed on the horizontal ground reference of the EUT shall be 0.4 m from the vertical ground reference plane was be reference plane. The LISN 1 was placed unit under test and bonded to a ground mounted on top of the ground reference between the closest points of the LISN the EUT and associated equipment was 50. In order to find the maximum emission equipment and all of the interface cable ANSI C63.10: 2013 on conducted meaning the specific place.		ground reference plane, with a vertical ground reference of from the vertical ground reservations are plane was bonded to the hold N 1 was placed 0.8 m from the dot of a ground reference plane. This test of the LISN 1 and the EU equipment was at least 0.8 mum emission, the relative printerface cables must be chemisted.	ence plane. The rear eference plane. The corizontal ground the boundary of the ane for LISNs distance was IT. All other units of m from the LISN 2.	

Test Setup:



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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
	Charge + Transmitting mode.
End Tod Made	Through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case.
Final Test Mode:	Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

Report No.: HR/2018/B000303

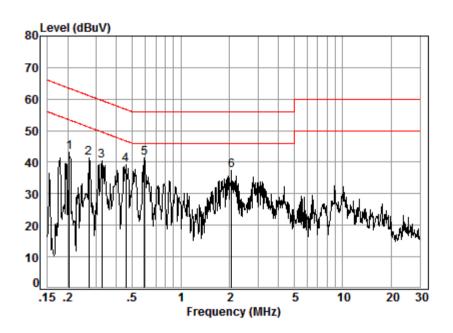
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room

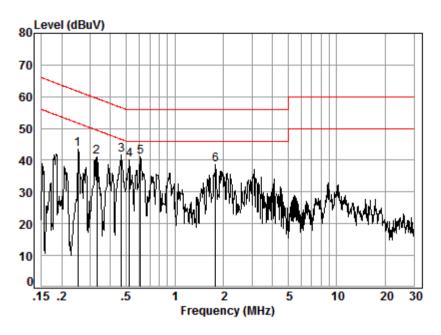
Condition: Line Job No. : B0003 Test mode: b

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.20	0.00	0.66	22 45	42 42	E2 4E	10 22	Deals
1	0.20	0.02	9.00	33.45	43.13	55.45	-10.52	reak
2	0.27	0.03	9.67	31.53	41.23	51.12	-9.89	Peak
3	0.33	0.04	9.67	30.77	40.48	49.57	-9.09	Peak
4	0.46	0.06	9.67	29.64	39.37	46.76	-7.39	Peak
5	0.59	0.07	9.67	31.68	41.42	46.00	-4.58	Peak
6	2.05	0.16	9.72	27.51	37.39	46.00	-8.61	Peak

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Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : B0003

Test mode: b

		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.25	0.03	9.64	33.70	43.37	51.69	-8.32	Peak
2	0.33	0.04	9.64	31.26	40.94	49.49	-8.55	Peak
3	0.47	0.06	9.64	31.89	41.59	46.54	-4.95	Peak
4	0.52	0.06	9.64	30.51	40.21	46.00	-5.79	Peak
5	0.61	0.07	9.64	31.36	41.07	46.00	-4.93	Peak
6	1.78	0.15	9.69	28.82	38.66	46.00	-7.34	Peak

Remarks:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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4.3 Duty Cycle

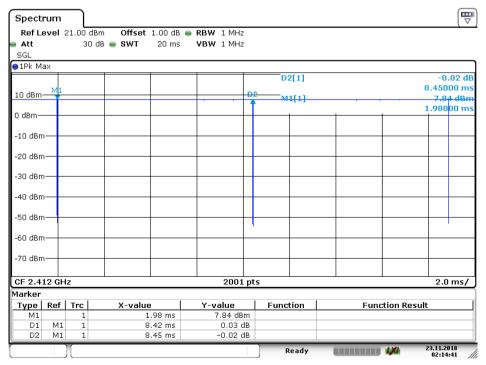
4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11B	Ant 1: CH1	99.64
11G	Ant 1: CH1	98.73
11G_CDD	Ant 1: CH1	97.67
11N20	Ant 1: CH1	98.25
11N20_MIMO	Ant 1: CH1	97.16
11N40	Ant 1: CH3	90.74
11N40_MIMO	Ant 1: CH3	86.64
11B	Ant 2: CH1	99.64
11G	Ant 2: CH1	98.55
11G_CDD	Ant 2: CH1	98.37
11N20	Ant 2: CH1	98.25
11N20_MIMO	Ant 2: CH1	97.16
11N40	Ant 2: CH3	91.03
11N40_MIMO	Ant 2: CH3	86.82

4.3.2 Test Plots

4.3.2.1 ANT1

4.3.2.1.1 11B

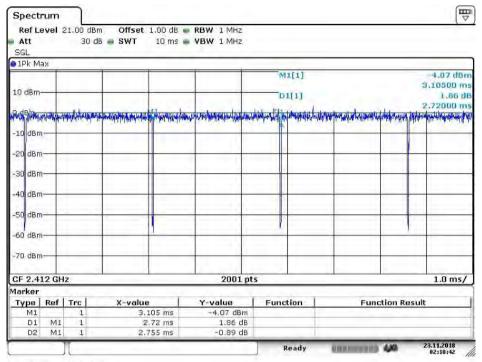


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Report No.: HR/2018/B000303

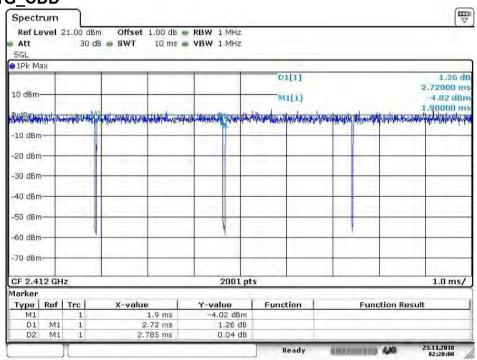
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4.3.2.1.2 11G



Date: 23.NOV.2018 02:18:43

4.3.2.1.3 11G_CDD

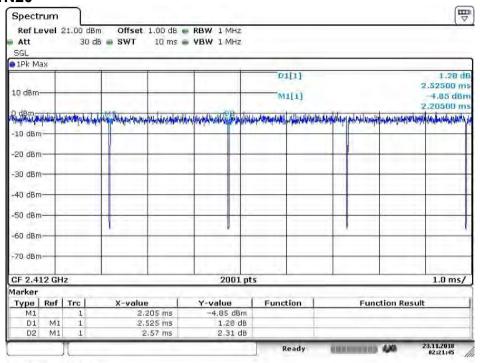


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Report No.: HR/2018/B000303

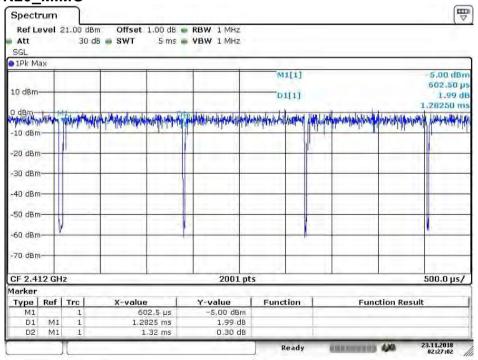
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4.3.2.1.4 11N20



Date: 23.NOV.2018 02:21:46

4.3.2.1.5 11N20 MIMO

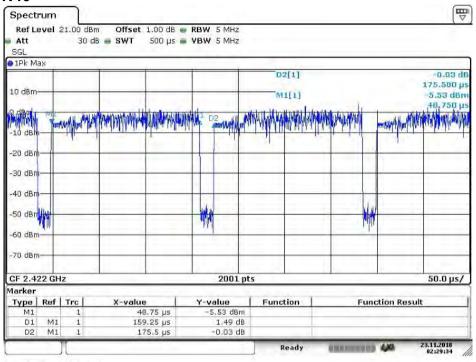


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Report No.: HR/2018/B000303

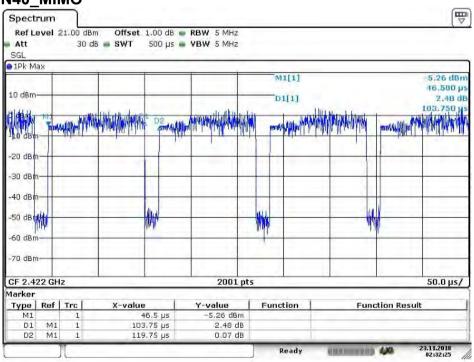
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4.3.2.1.6 11N40



Date: 23.NOV.2018 02:29:35

4.3.2.1.7 11N40 MIMO



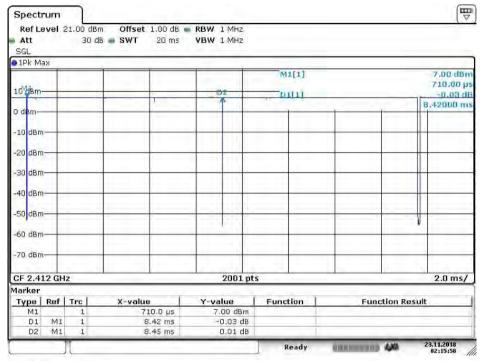
Date: 23.NOV.2018 02:32:25

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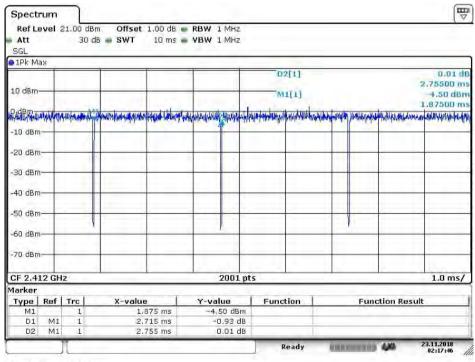
4.3.2.2 ANT2

4.3.2.2.1 11B



Date: 23.NOV.2018 02:15:58

4.3.2.2.2 11G

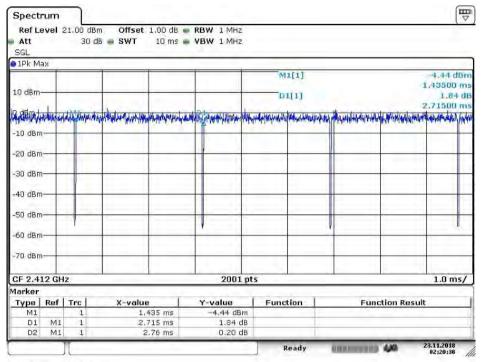


Date: 23.NOV,2018 02:17:46

Report No.: HR/2018/B000303

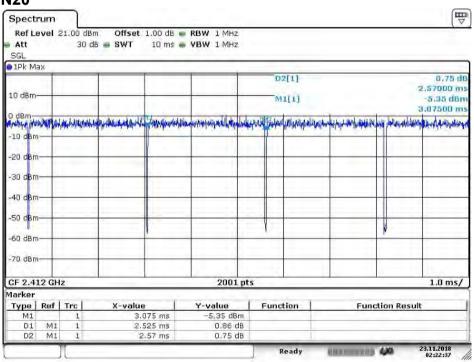
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4.3.2.2.3 11G CDD



Date: 23.NOV.2018 02:20:39

4.3.2.2.4 11N20

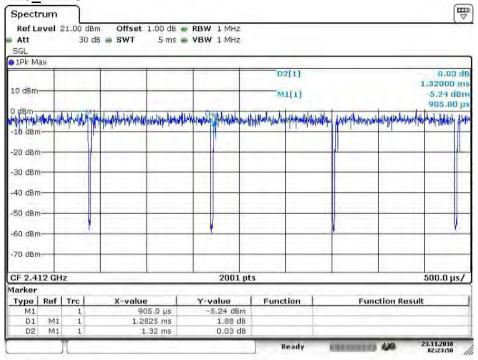


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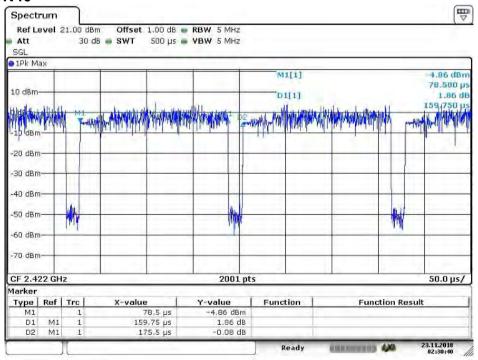
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4.3.2.2.5 11N20 MIMO



Date: 23.NOV.2018 02:23:51

4.3.2.2.6 11N40

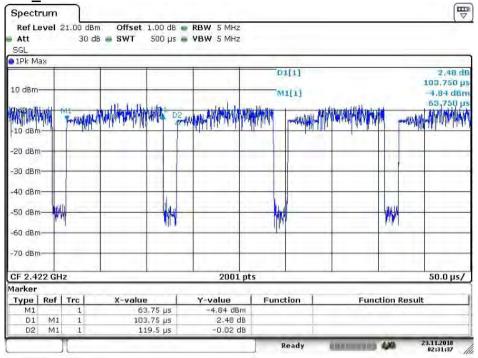


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Report No.: HR/2018/B000303

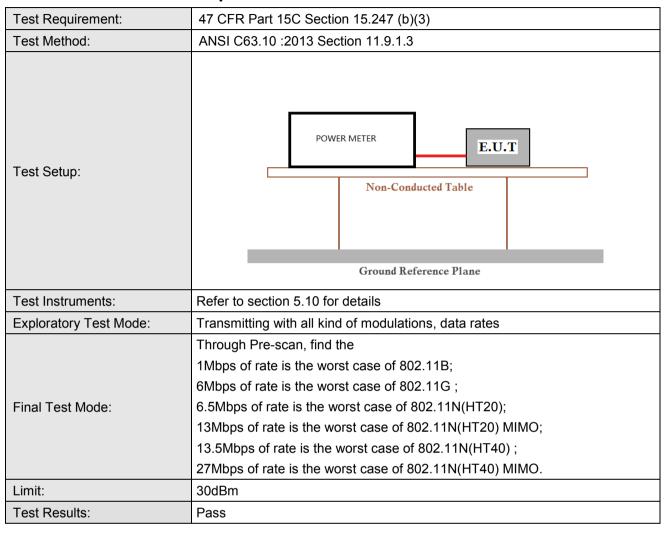
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4.3.2.2.7 11N40 MIMO



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4.4 Conducted Output Power



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4.4.1 Test Results

4.4.1.1 Measurement Data of Average Power:

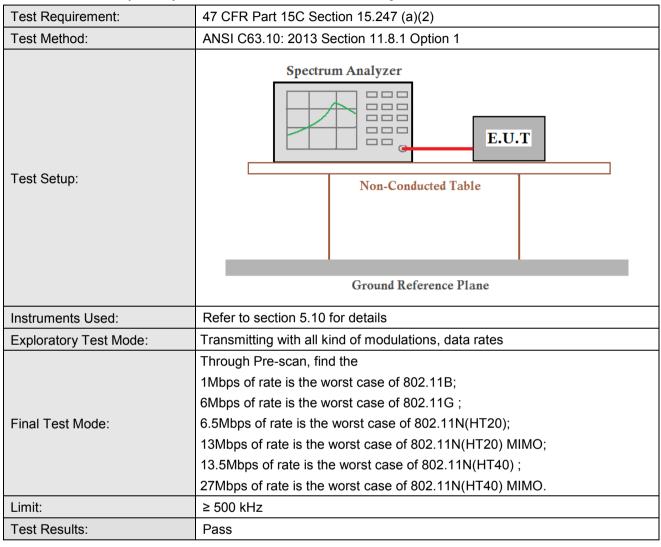
Measurement Data of Average Power:							
Mode	Test Channel	Average	Output Po	Result			
Wode	rest offamile	ANT1	ANT2	SUM	Result		
	Lowest	14.03	13.41		Report purpose only		
802.11B	Middle	15.94	16.51		Report purpose only		
	Highest	13.43	13.18		Report purpose only		
	Lowest	7.28	6.75		Report purpose only		
802.11G	Middle	12.42	13.18		Report purpose only		
	Highest	4.08	3.45		Report purpose only		
	Lowest	6.91	6.82	9.88	Report purpose only		
802.11G_CDD	Middle	12.41	13.25	15.86	Report purpose only		
	Highest	3.93	3.49	6.73	Report purpose only		
	Lowest	6.33	6.06		Report purpose only		
802.11N20	Middle	11.51	12.07		Report purpose only		
	Highest	3.31	2.65		Report purpose only		
	Lowest	6.18	6.02	9.11	Report purpose only		
802.11N20 MIMO	Middle	11.89	11.52	14.72	Report purpose only		
002.111120_1111110	Highest	3.11	3.06	6.10	Report purpose only		
	Lowest	3.25	3.97		Report purpose only		
802.11N40	Middle	7.80	8.14		Report purpose only		
	Highest	3.58	4.06		Report purpose only		
	Lowest	2.23	3.26	5.79	Report purpose only		
802.11N40_MIMO	Middle	6.32	9.31	11.08	Report purpose only		
	Highest	3.12	3.64	6.40	Report purpose only		

4.4.1.2 Measurement Data of Peak Power:

Mode	Test Channel	Peak	Output Powe	Limit (dBm)	Result	
		ANT1	ANT2	SUM		
	Lowest	14.03	13.41		30.00	Pass
802.11B	Middle	15.94	16.53		30.00	Pass
	Highest	13.43	13.18		(dBm) 30.00	Pass
	Lowest	7.28	6.75		30.00	Pass
802.11G	Middle	12.48	13.24		30.00	Pass
3025	Highest	4.08	3.45		30.00	Pass
	Lowest	7.01	6.89	9.96	30.00	Pass
802.11G_CDD	Middle	12.51	13.32	15.94	30.00	Pass
002.110_028	Highest	4.03	3.56	6.81	30.00	Pass
	Lowest	6.33	6.06		30.00	Pass
802.11N20	Middle	11.59	12.15		30.00	Pass
00=	Highest	3.31	2.65		30.00	Pass
	Lowest	6.31	6.15	9.24	30.00	Pass
802.11N20_MIMO	Middle	12.02	11.65	14.85	30.00	Pass
002.111120_1111110	Highest	3.24	3.19	6.23	30.00	Pass
	Lowest	3.25	3.97		30.00	Pass
802.11N40	Middle	7.18	8.14		30.00	Pass
302.111110	Highest	3.58	4.06		30.00	Pass
	Lowest	2.85	3.87	6.40	30.00	Pass
802.11N40 MIMO	Middle	6.94	9.92	11.69	30.00	Pass
332. : :: 110_iviiivi	Highest	3.74	4.25	7.01	30.00	Pass

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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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4.5.1 Test Results

4.5.1.1 ANT1:

4.5.1.1	ANTT:				
Mode	Test Channel	Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	10.70	9.05	≥500	Pass
802.11B	Middle	11.45	9.60	≥500	Pass
002.112	Highest	11.48	9.08	≥500	Pass
	Lowest	16.36	16.36	≥500	Pass
802.11G	Middle	16.39	16.36	≥500	Pass
002.110	Highest	16.42	16.36	≥500	Pass
	Lowest	16.36	16.24	≥500	Pass
802.11G CDD	Middle	16.42	16.36	≥500	Pass
002.110_000	Highest	16.42	16.39	(kHz) ≥500 ≥500 ≥500 ≥500 ≥500 ≥500 ≥500 ≥50	Pass
	Lowest	17.53	17.32	≥500	Pass
802.11N20	Middle	17.53	17.38	≥500	Pass
002.111120	Highest	17.56	17.59	(kHz) ≥500	Pass
000 441100	Lowest	17.53	17.32	≥500	Pass
802.11N20	Middle	17.53	17.38	≥500	Pass
_MIMO	Highest	17.56	17.62	≥500	Pass
	Lowest	36.90	35.66	≥500	Pass
802.11N40	Middle	35.96	36.14	≥500	Pass
332.111113	Highest	35.96	36.08	≥500	Pass
200 441140	Lowest	35.90	35.78	≥500	Pass
802.11N40	Middle	35.90	36.08	≥500	Pass
_MIMO	Highest	35.90	36.38	≥500	Pass

4.5.1.2 ANT2:

Mode	Test Channel	Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	11.45	9.05	≥500	Pass
802.11B	Middle	11.54	9.05	≥500	Pass
0022	Highest	11.60	9.08	≥500	Pass
	Lowest	16.39	16.39	≥500	Pass
802.11G	Middle	16.45	16.36	≥500	Pass
332.113	Highest	16.42	16.15	≥500	Pass
	Lowest	16.39	16.36	≥500	Pass
802.11G_CDD	Middle	16.39	16.39	≥500	Pass
0020_022	Highest	16.39	16.39	≥500	Pass
	Lowest	17.53	17.41	≥500	Pass
802.11N20	Middle	17.56	17.56	≥500	Pass
002.111120	Highest	17.56	17.35	≥500	Pass
000 441100	Lowest	17.53	17.59	≥500	Pass
802.11N20	Middle	17.56	17.59	≥500	Pass
_MIMO	Highest	17.56	17.59	≥500	Pass
	Lowest	35.96	36.14	≥500	Pass
802.11N40	Middle	36.02	36.14	≥500	Pass
332	Highest	35.96	35.96	(kHz) ≥500 ≥500 ≥500 ≥500 ≥500 ≥500 ≥500 ≥50	Pass
000 44146	Lowest	35.90	36.38	≥500	Pass
802.11N40	Middle	36.02	36.44	≥500	Pass
_MIMO	Highest	35.96	36.02	≥500	Pass

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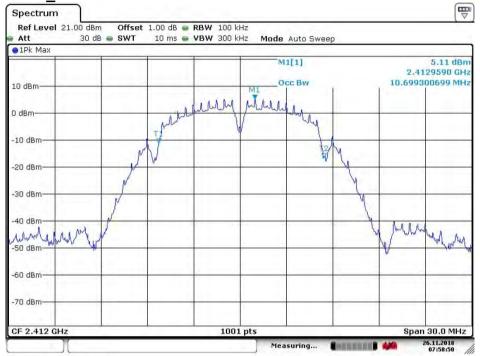
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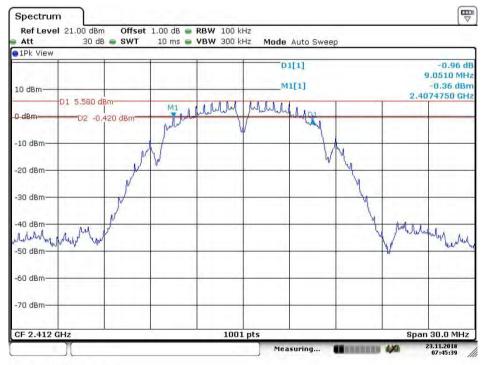
4.5.2 Test plots

4.5.2.1 ANT1:

4.5.2.1.1 802.11B Lowest Channel



Date: 26.NOV.2018 07:58:51



Date: 23.NOV.2018 07:45:39

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4.5.2.1.2 802.11B Middle Channel



Date: 26.NOV.2018 08:07:07

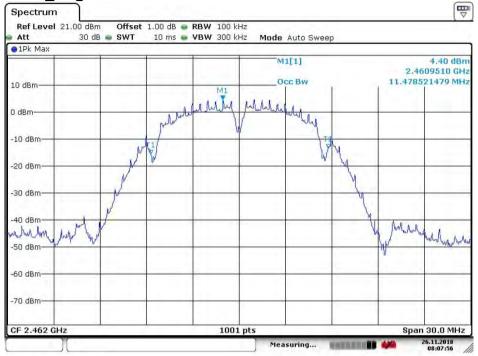


Date: 23.NOV.2018 07:51:09

Report No.: HR/2018/B000303

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4.5.2.1.3 802.11B Highest Channel



Date: 26.NOV.2018 08:07:57

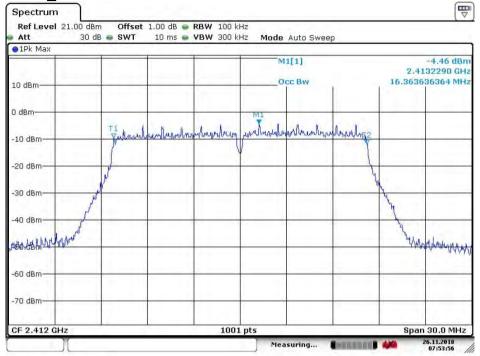


Date: 23.NOV.2018 07:53:12

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4.5.2.1.4 802.11G Lowest Channel



Date: 26.NOV.2018 07:53:57

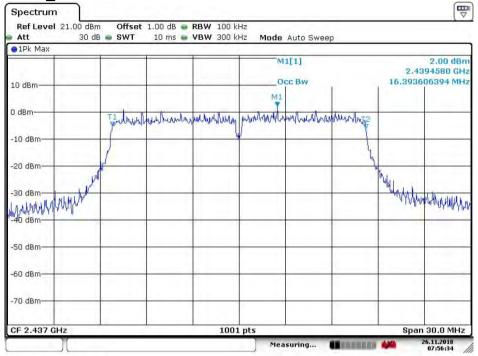


Date: 23.NOV.2018 07:58:38

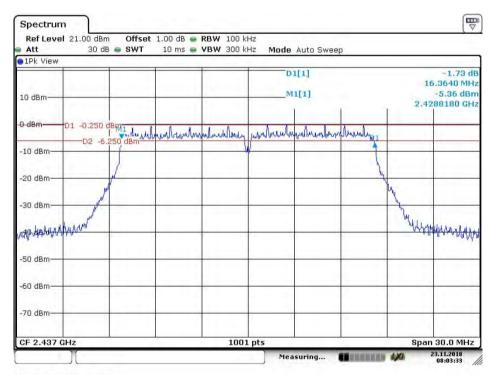
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4.5.2.1.5 802.11G Middle Channel



Date: 26.NOV.2018 07:56:34

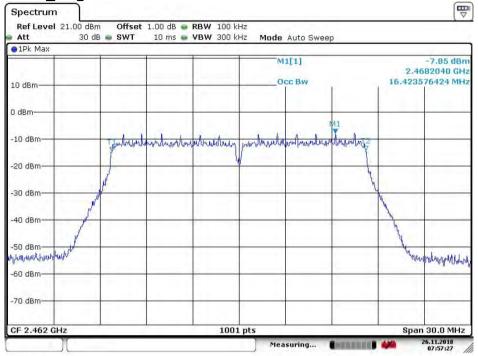


Date: 23.NOV.2018 08:03:33

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4.5.2.1.6 802.11G Highest Channel



Date: 26.NOV.2018 07:57:28

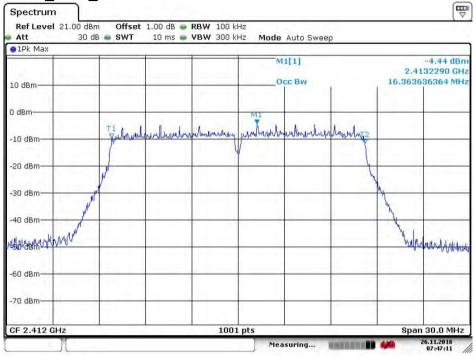


Date: 23.NOV.2018 08:07:29

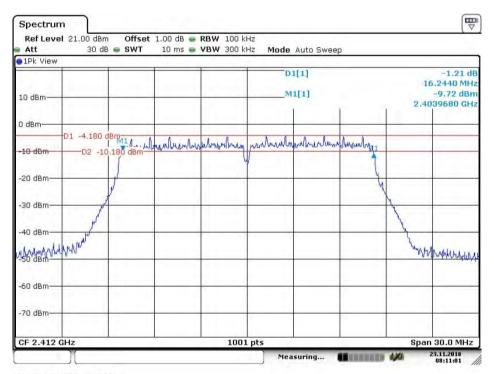
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4.5.2.1.7 802.11G CDD Lowest Channel



Date: 26.NOV.2018 07:47:11

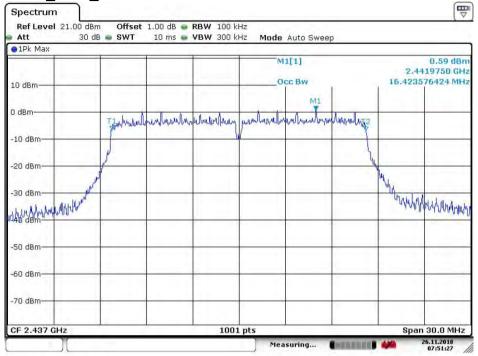


Date: 23.NOV.2018 08:11:01

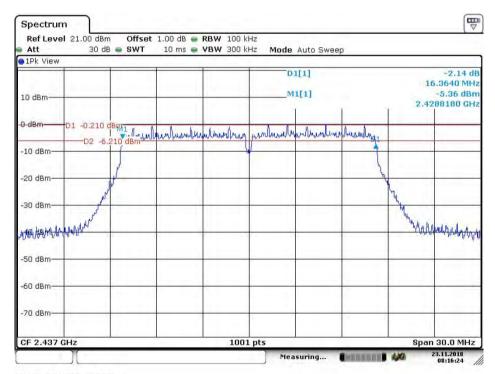
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4.5.2.1.8 802.11G_CDD_ Middle Channel



Date: 26.NOV.2018 07:51:28

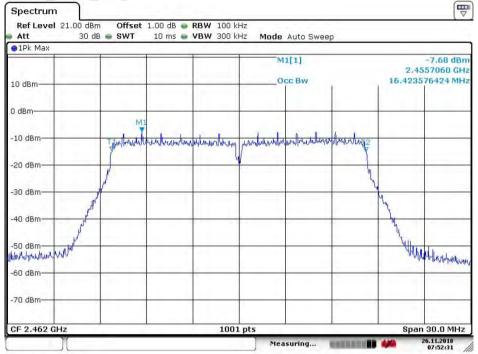


Date: 23.NOV.2018 08:16:25

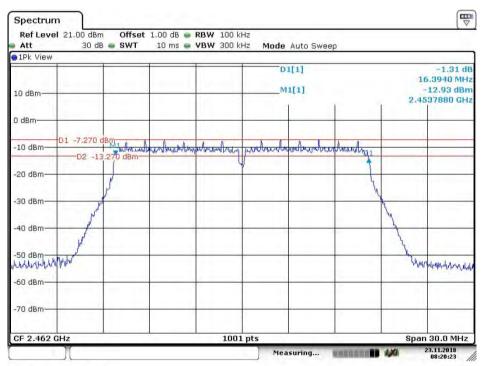
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4.5.2.1.9 802.11G_CDD_ Highest Channel



Date: 26.NOV.2018 07:52:32

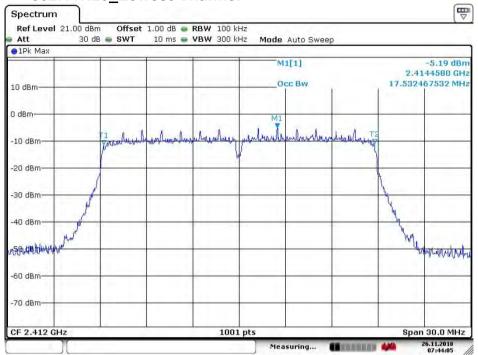


Date: 23.NOV.2018 08:20:23

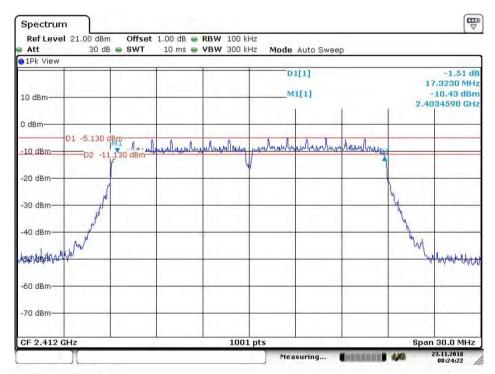
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4.5.2.1.10 802.11N20 Lowest Channel



Date: 26.NOV.2018 07:44:06

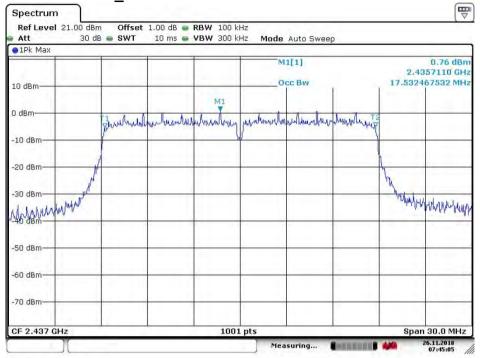


Date: 23.NOV.2018 08:24:22

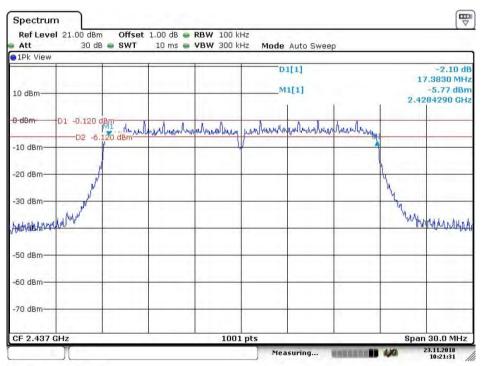
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4.5.2.1.11 802.11 N20 Middle Channel



Date: 26.NOV.2018 07:45:05

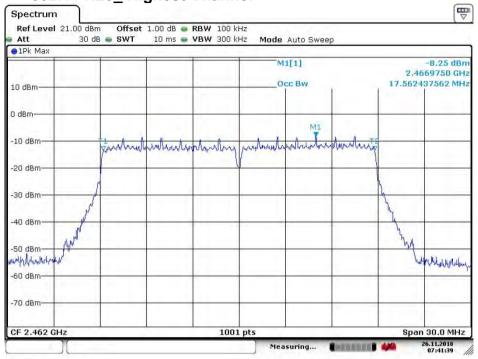


Date: 23.NOV.2018 10:21:31

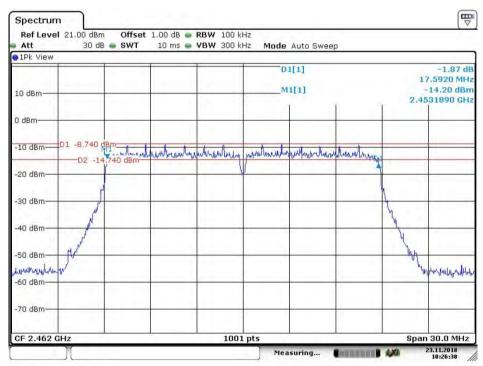
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4.5.2.1.12 802.11 N20 Highest Channel



Date: 26.NOV.2018 07:41:40

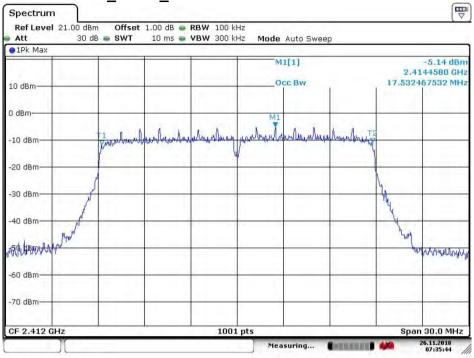


Date: 23.NOV.2018 10:26:38

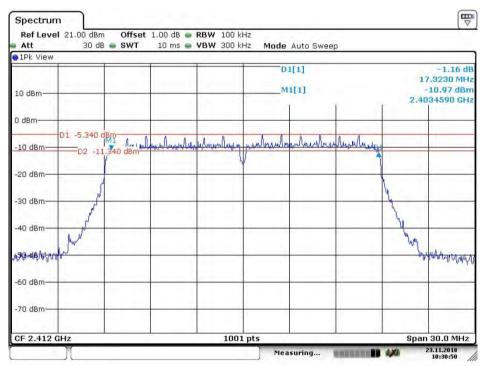
Report No.: HR/2018/B000303

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4.5.2.1.13 802.11N20 MIMO Lowest Channel



Date: 26.NOV.2018 07:35:45

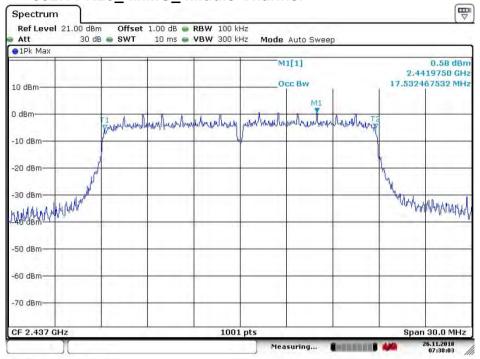


Date: 23.NOV.2018 10:30:51

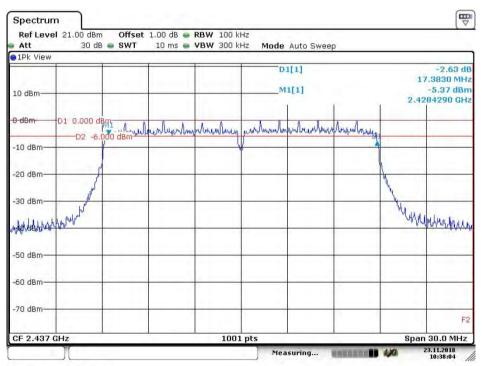
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4.5.2.1.14 802.11 N20 MIMO Middle Channel



Date: 26.NOV.2018 07:38:04

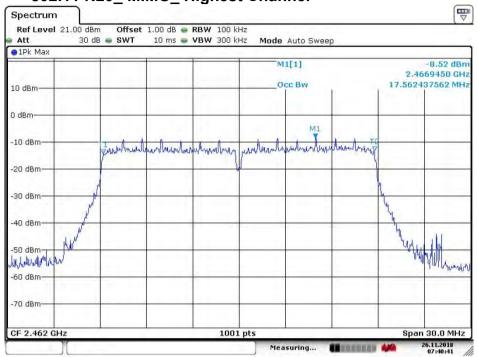


Date: 23.NOV.2018 10:38:05

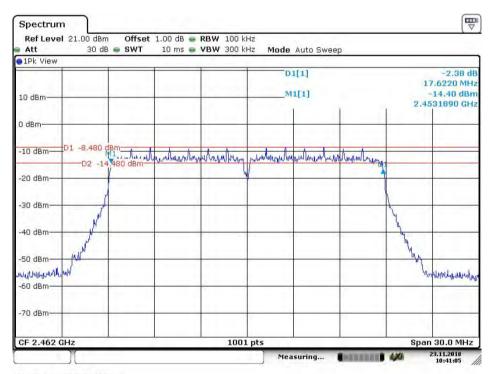
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4.5.2.1.15 802.11 N20 MIMO Highest Channel



Date: 26.NOV.2018 07:40:42

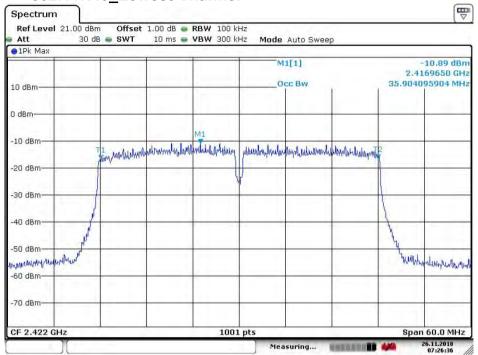


Date: 23.NOV.2018 10:41:05

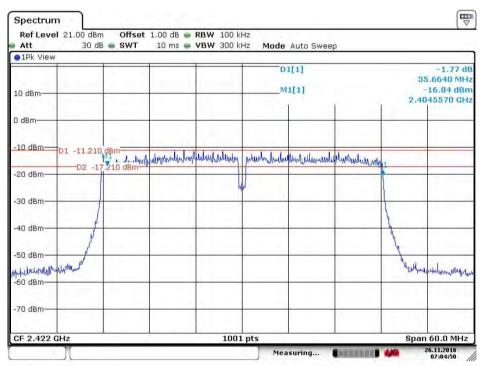
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4.5.2.1.16 802.11N40 Lowest Channel



Date: 26.NOV.2018 07:26:36

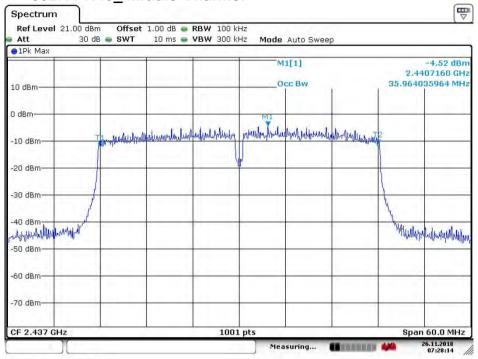


Date: 26.NOV.2018 07:04:50

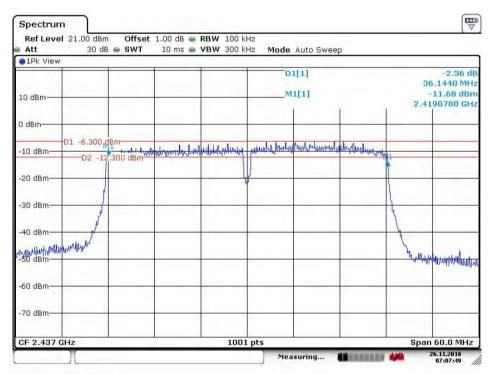
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4.5.2.1.17 802.11 N40 Middle Channel



Date: 26.NOV.2018 07:28:14

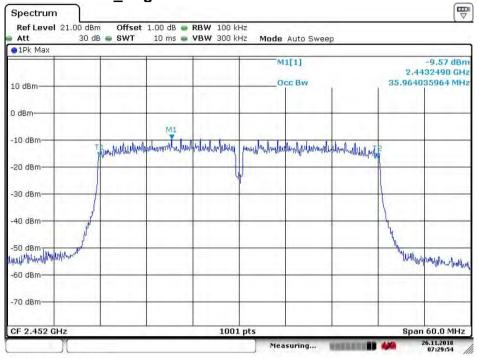


Date: 26.NOV.2018 07:07:49

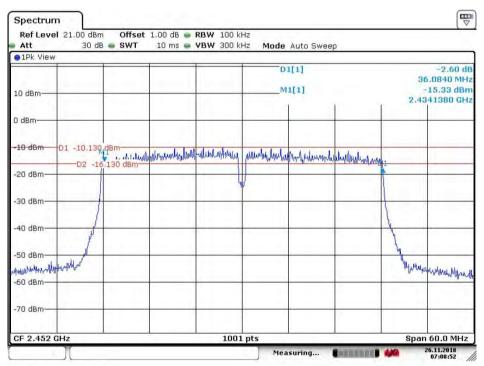
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4.5.2.1.18 802.11 N40 Highest Channel



Date: 26.NOV.2018 07:29:55

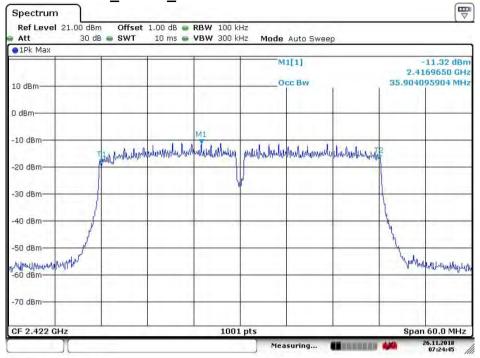


Date: 26.NOV.2018 07:08:52

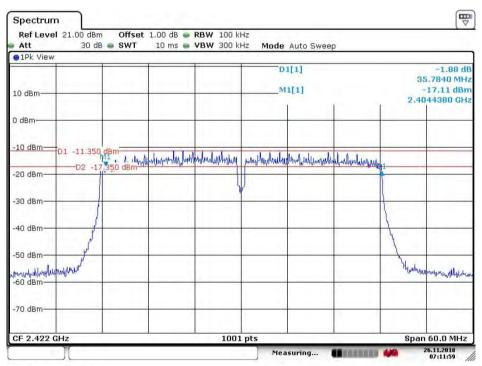
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4.5.2.1.19 802.11N40 MIMO Lowest Channel



Date: 26.NOV.2018 07:24:45

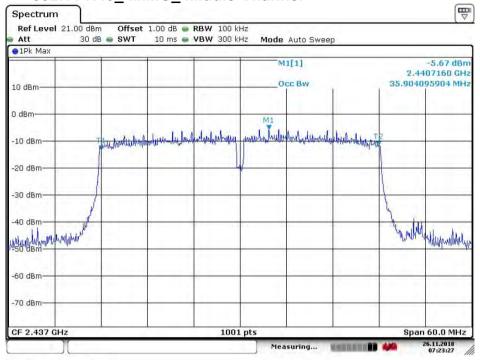


Date: 26.NOV.2018 07:11:59

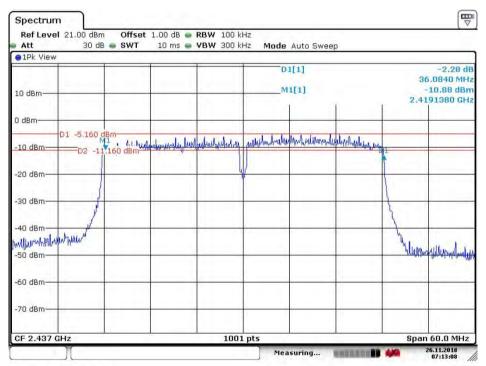
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4.5.2.1.20 802.11 N40 MIMO Middle Channel



Date: 26.NOV.2018 07:23:27

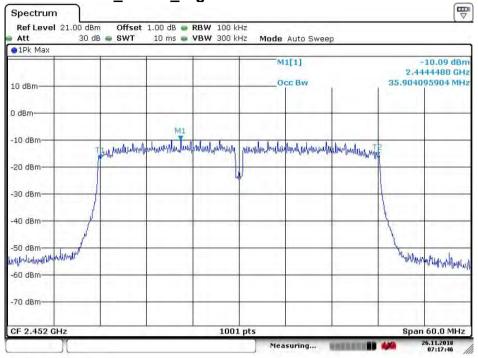


Date: 26.NOV.2018 07:13:09

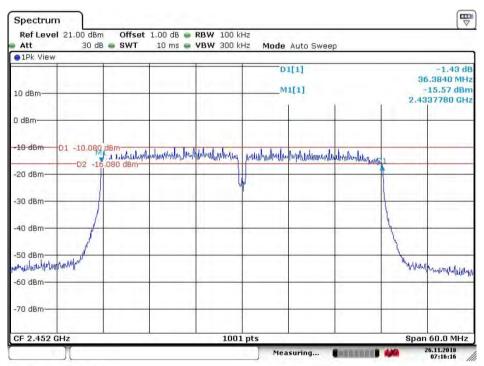
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4.5.2.1.21 802.11 N40 MIMO Highest Channel



Date: 26.NOV.2018 07:17:47



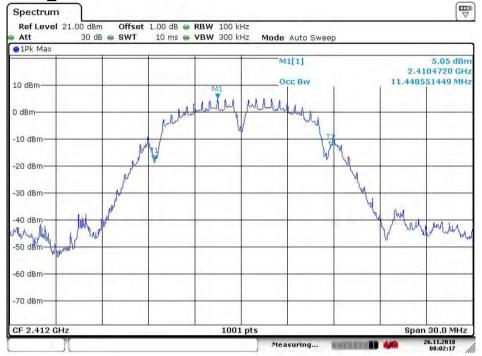
Date: 26.NOV.2018 07:16:16

Report No.: HR/2018/B000303

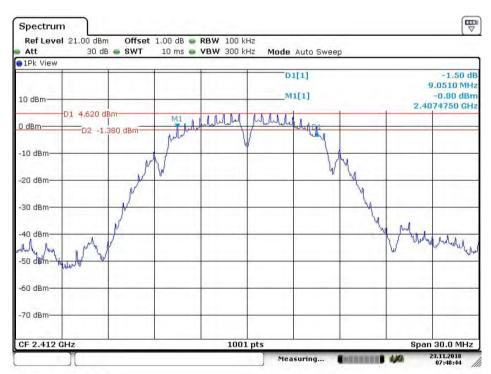
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4.5.2.2 ANT2:

4.5.2.2.1 802.11B_Lowest Channel



Date: 26.NOV.2018 08:02:17

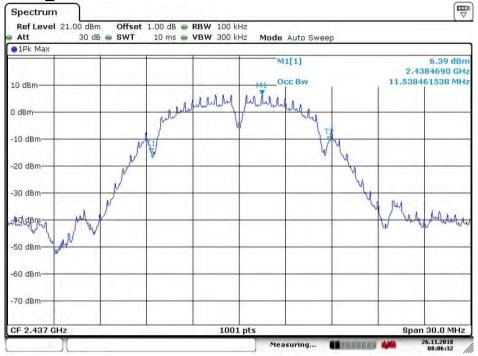


Date: 23.NOV.2018 07:48:44

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4.5.2.2.2 802.11B Middle Channel



Date: 26.NOV.2018 08:06:32

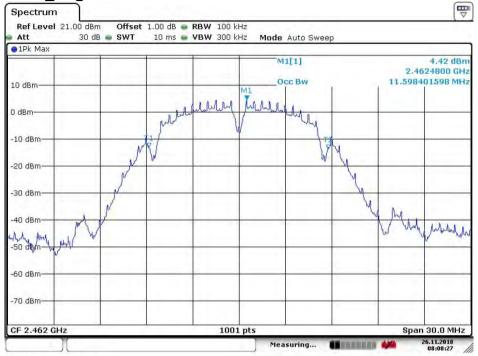


Date: 23.NOV.2018 07:50:07

Report No.: HR/2018/B000303

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4.5.2.2.3 802.11B Highest Channel



Date: 26.NOV.2018 08:08:28

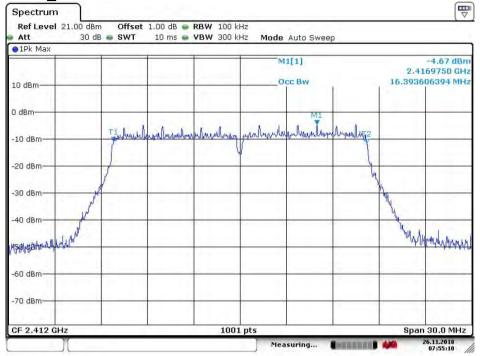


Date: 23.NOV.2018 07:54:28

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4.5.2.2.4 802.11G Lowest Channel



Date: 26.NOV.2018 07:55:11

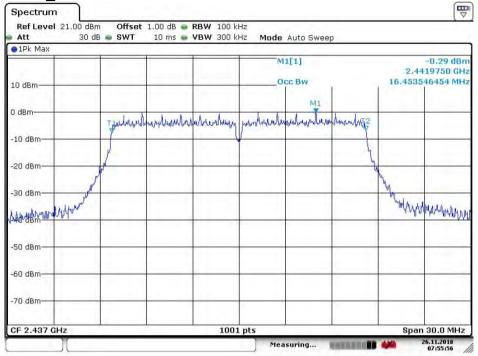


Date: 23.NOV.2018 07:57:11

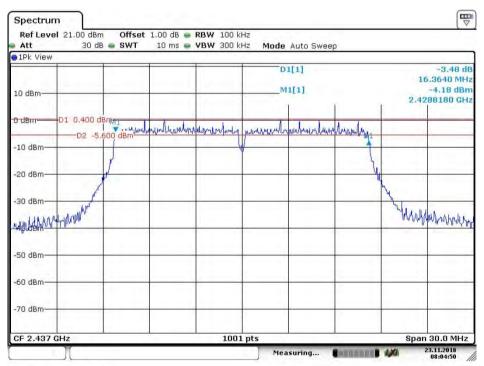
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4.5.2.2.5 802.11G Middle Channel



Date: 26.NOV.2018 07:55:56

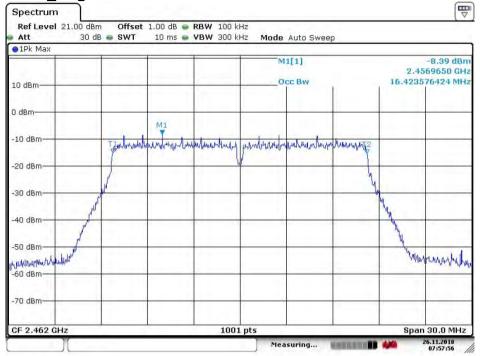


Date: 23.NOV.2018 08:04:50

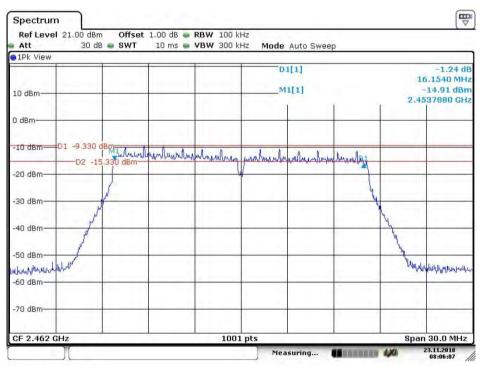
Report No.: HR/2018/B000303

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4.5.2.2.6 802.11G Highest Channel



Date: 26.NOV.2018 07:57:56

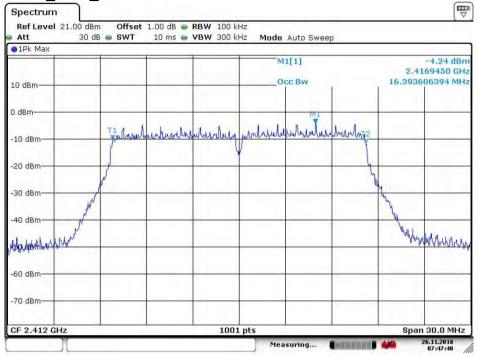


Date: 23.NOV.2018 08:06:08

Report No.: HR/2018/B000303

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4.5.2.2.7 802.11G CDD Lowest Channel



Date: 26.NOV.2018 07:47:40

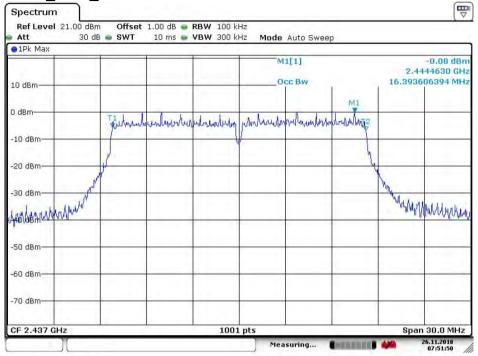


Date: 23.NOV.2018 08:12:01

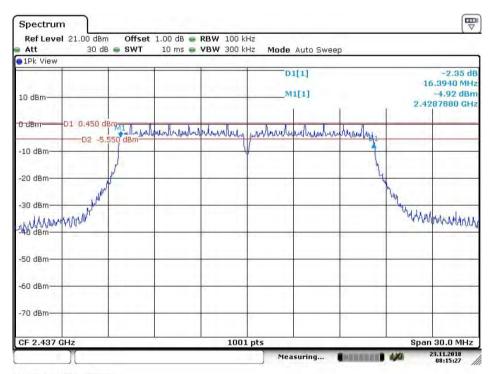
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4.5.2.2.8 802.11G_CDD_ Middle Channel



Date: 26.NOV.2018 07:51:50

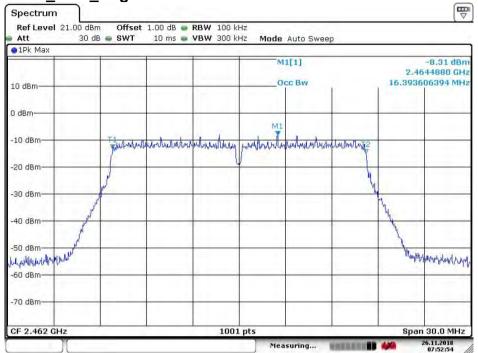


Date: 23.NOV.2018 08:15:27

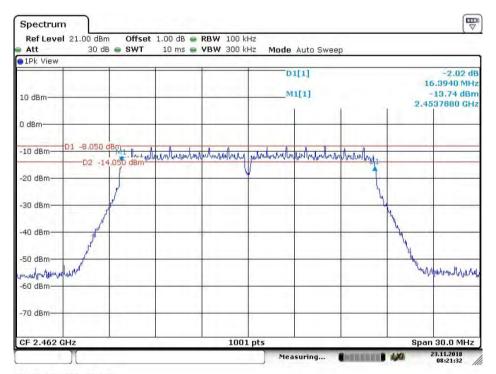
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4.5.2.2.9 802.11G_CDD_ Highest Channel



Date: 26.NOV.2018 07:52:55

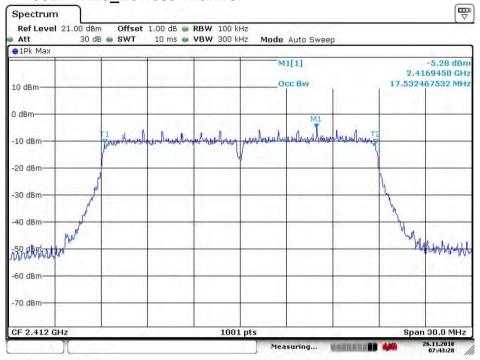


Date: 23.NOV.2018 08:21:32

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4.5.2.2.10 802.11N20 Lowest Channel



Date: 26.NOV.2018 07:43:28

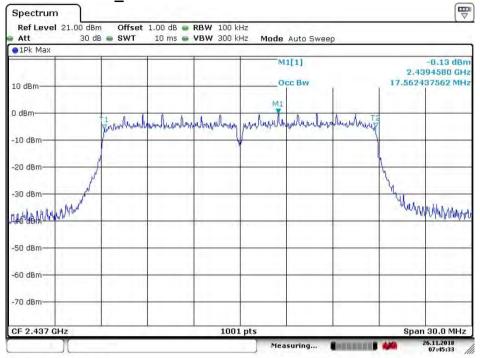


Date: 23.NOV.2018 08:26:11

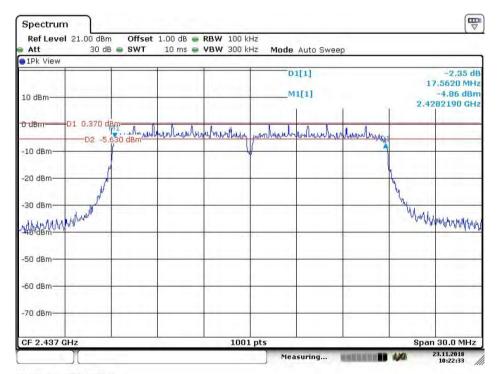
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4.5.2.2.11 802.11 N20 Middle Channel



Date: 26.NOV.2018 07:45:34

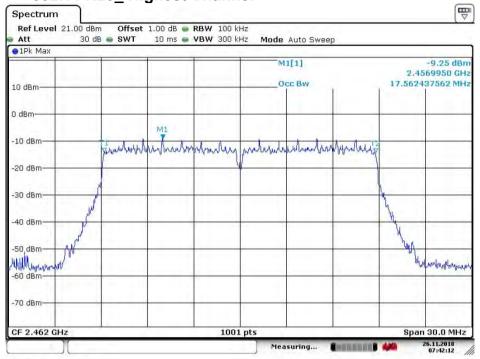


Date: 23.NOV.2018 10:22:34

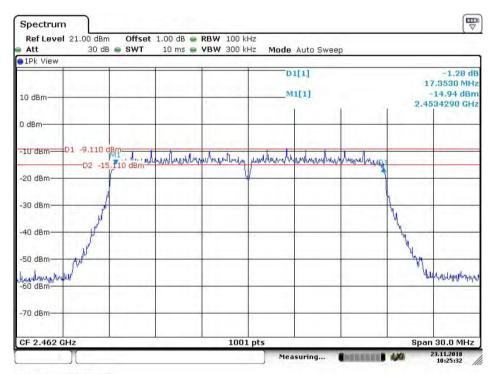
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4.5.2.2.12 802.11 N20 Highest Channel



Date: 26.NOV.2018 07:42:11



Date: 23.NOV.2018 10:25:32