

Report No.: SZEM180700654903

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FCC TEST REPORT

Application No: SZEM1807006549RG

Applicant: Huawei Technologies Co., Ltd.

Address of Applicant Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

Manufacturer: Huawei Technologies Co., Ltd.

Address of Manufacturer Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

Product Name: Smart Phone

Model No.(EUT): HMA-L29, HMA-L09

Trade Mark:: HUAWEI

FCC ID: QISHMA-LX9

47 CFR FCC Part 2, Subpart J

Standards: 47 CFR FCC Part 15, Subpart C

47 CFR FCC Part 15, Subpart E

KDB 789033 D02 General UNII Test Procedures New Rules v02

FCC KDB 558074 D01 DTS Meas Guidance v04

Test Method FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013, American National Standard for Testing Unlicensed

Wireless Devices

Date of Receipt: 2018-07-10

Date of Test: 2018-07-11 to 2018-08-20

Date of Issue: 2018-09-03

Test Result: PASS *

Authorized Signature:

Derek Yang

Derele 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.

2 Version

	Revision Record			
Version	Chapter	Date	Modifier	Remark
01		2018-09-03		Original

Authorized for issue by:		
Tested By	Mike Mu	2018-09-03
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2018-09-03
	(David Chen) /Reviewer	Date

Authorized Signature:

Derek Yang Wireless Laboratory Manager

Derde yang

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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3 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdic t
Emission	5150-5250 5250-5350	15.403(i) 15.407(a)(1) 15.403(i) 15.407(a)(2)	No limit.		
Bandwidth	5470-5725	15.403(i) 15.407(a)(2)		Clause 5.4	Pass
	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 5.5	
Occupied Bandwidth	5150-5250 5250-5350 5470-5725 5725-5850	KDB 789033 D02§ D	No limit.		Pass
Duty Cycle	5150-5850		No limit.		
	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC < 250mW (avg during transmission)		
Maximum	5250-5350	15.407(a)(2) 15.407(a)(4)	<pre><min{250mw,11dbm+10*lg((avg="" during="" ebw)}="" pre="" transmission)<=""></min{250mw,11dbm+10*lg(></pre>	Clause 5.3	
Conducted Output Power	5470-5725	15.407(a)(2) 15.407(a)(4)	<min{250mw,11dbm+10*lg(EBW)} (avg during transmission)</min{250mw,11dbm+10*lg(Clause 5.5	
	5725-5850	15.407(a)(3)	< 1W (avg during transmission)		Pass
	5150-5250	15.407(a)(1) 15.407(a)(4)	<11dBm/MHz (avg during transmission)		
maximum Power	5250-5350	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)	Clause 5.6	
Spectral Density	5470-5725	15.407(a)(2) 15.407(a)(4)	<pre><11dBm/MHz (avg during transmission)</pre>	Siddec 6.6	
	5725-5850	15.407(a)(3) 15.407(a)(4)	<30dBm/500KHz (avg during transmission)		
Unwanted Emissions that fall Outside of the	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	 F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 	- Clause 5.7	Page
Restricted Bands(Radiat ed)	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	 F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 	Clause 5./	Pass

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Test Item	Band	FCC Rule	Requirements	Test Result	Verdic t
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	 F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 		
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	 F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &outrestricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 		
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	FCC: Part 15.209	Clause 5.8	Pass
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	FCC:Part 15.207 conducted limit;	Clause 5.2	Pass
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.407(g)	FCC Part 15.407(g)	Clause 5.9	Pass
DFS: Non- occupancy period	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Minimum 30 minutes	Clause 5.10	Pass

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Test Item	Band	FCC Rule	Requirements	Test Result	Verdic t
DFS: Channel Move Time		47 CFR Part 15, Subpart E 15.407	10 seconds		Pass
DFS: Channel Closing Transmission Time		47 CFR Part 15, Subpart E 15.407	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.		Pass

Remark:

According to the declaration from the applicant, the differences between HMA-L29 and HMA-L09 are identical except for HMA-L09 support single SIM card which deleted by software. Therefore we only test HMA-L29 in this report



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4 General Information

4.1 Client Information

Applicant:	Huawei Technologies Co., Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co., Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

4.2 General Description of EUT

Product Name:	Smart Phone	
Model No.:	HMA-L29, HMA-L09	
Trade Mark:	HUAWEI	
Hardware Version:	HL1HIMAM	
Software Version:	9.0.0.46(C432E55R1P7log)	
Operation Frequency:	IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80/160): 5150MHz to 5250MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz	
	* The 5580-5650MHz can not be used.	
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11ac: OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)	
DFS mode:	Slave without radar detection	
Sample Type:	Portable Device	
Antenna Type:	PIFA	
Antenna Gain:	1dBi(ANT1);-4.5dBi(ANT2)	
EUT Power Supply:	Battery Model: HB436486ECW Rated capacity: 3900mAh	
	Nominal Voltage: +3.82V	
AC adaptor:	Charging Voltage: +4.40V Model: HW-050450B00 Manufacturer: Huawei Technologies Co., Ltd. Input: 100V-240V~50/60Hz, 0.75A	
	Output: 5V === 2A OR4.5V === 5A OR 5V === 4.5A Model: HW-050450E00 Manufacturer: Huawei Technologies Co., Ltd. Input: 100V-240V~50/60Hz, 0.75A	
	Output: 5V === 2A OR4.5V === 5A OR 5V === 4.5A	

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Model: HW-050450U00
Manufacturer: Huawei Technologies Co., Ltd.
Input: 100V-240V~50/60Hz, 0.75A

Output: 5V === 2A OR4.5V === 5A OR 5V === 4.5A
Model: HW-050450A00
Manufacturer: Huawei Technologies Co., Ltd.
Input: 100V-240V~50/60Hz, 0.75A

Output: 5V === 2A OR4.5V === 5A OR 5V ==== 4.5A
Model: HW-050450E01
Manufacturer: Huawei Technologies Co., Ltd.
Input: 100V-240V~50/60Hz, 0.75A

Output: 5V ==== 2A OR 9V ==== 2A

Note:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5180
IEEE 802.11a/n/ac 20MHz	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n/ac 40MHz	The Lowest channel	5190
IEEE 802.1111/ac 40101H2	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5260
IEEE 802.11a/n/ac 20MHz	The Middle channel	5280
	The Highest channel	5320
JEEE 000 44% /s - 40MI /s	The Lowest channel	5270
IEEE 802.11n/ac 40MHz	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290
IEEE 802.11ac 160MHz	The Lowest channel	5250



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For UNII Band II-C:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5500
IEEE 802.11a/n/ac 20MHz	The Middle channel	5600
	The Highest channel	5720
	The Lowest channel	5510
IEEE 802.11n/ac 40MHz	The Middle channel	5670
	The Highest channel	5710
IEEE 000 4400 00MH-	The Lowest channel	5530
IEEE 802.11ac 80MHz	The Highest channel	5690
IEEE 802.11ac 160MHz	The Highest channel	5570

For UNII Band III:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5745
IEEE 802.11a/n/ac 20MHz	The Middle channel	5785
	The Highest channel	5825
IEEE 902 11n/22 10MHz	The Lowest channel	5755
IEEE 802.11n/ac 40MHz	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775

4.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	101.32 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.



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4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 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.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



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5 Test results and Measurement Data

5.1 Antenna Requirement

Test Requirement: 47 CFR Part 15 Section 15.203

The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 1dBi(ANT1);-4.5dBi(ANT2)

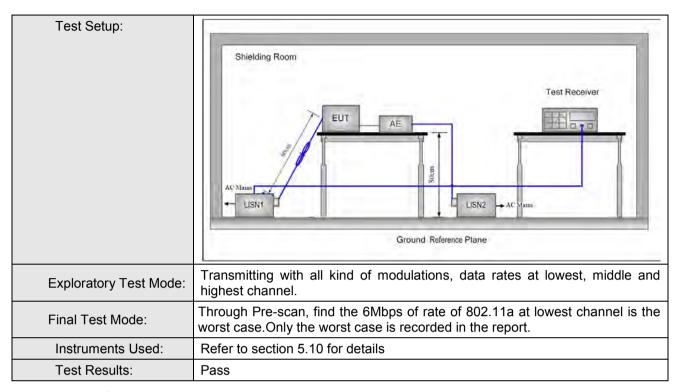
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.40	7(b)	
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	- (411)	Limit	(dBuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm	n of the frequency.	
Test Procedure:	1) The mains terminal disturt room. 2) The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS plane in the same way as the multiple socket outlet strip single LISN provided the reasonable to the tabletop EUT was placed on the horizontal ground reference plane. An placed on the horizontal ground reference plane are reference plane. The LISN unit under test and bonded mounted on top of the ground the EUT and associated experience to find the maximum equipment and all of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the in ANSI C63.10: 2013 on contract the EUT and association of the EUT and EUT	pance voltage test was a AC power source throetwork) which provides oles of all other units of N 2, which was bonder the LISN 1 for the unit was used to connect making of the LISN was not be a upon a non-metallich of for floor-standing are ound reference plane, the a vertical ground referom the vertical ground referom the vertical ground reference plane was bonded to the 1 was placed 0.8 m from the a ground reference plane. The of the LISN 1 and the quipment was at least 0 am emission, the relative terface cables must be	Figure 1. Figure 1. Figure 1. The EUT were do not the ground reference being measured. A pultiple power cables to a context of the EUT was do not exceeded. The EUT was determined by the rangement, the EUT was determined by the plane for LISNs has distance was EUT. All other units of 0.8 m from the LISN 2. The end of the positions of



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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.

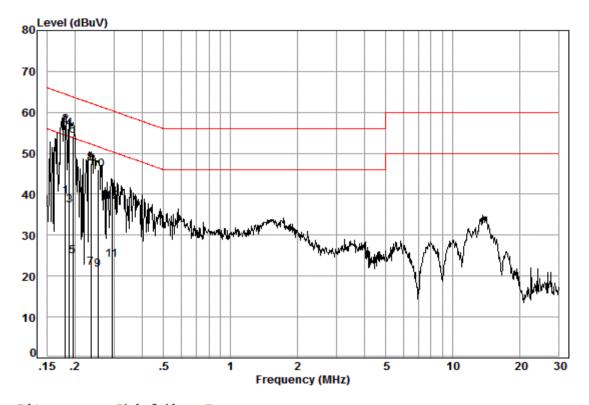
Mode e=5G WiFi Conducted Emission



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Live Line:



Site : Shielding Room

Condition: Line Job No. : 06549RG

Test mode: e

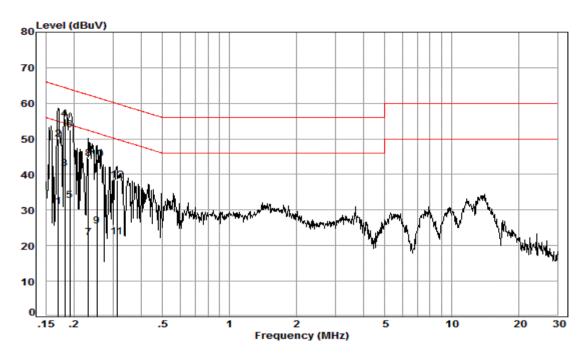
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.03	9.51	29.92	39.46	54.46	-15.00	Average
2	0.18	0.03	9.51	47.28	56.82	64.46	-7.64	QP
3	0.19	0.03	9.51	27.64	37.18	54.11	-16.93	Average
4	0.19	0.03	9.51	46.49	56.03	64.11	-8.08	QP
5	0.20	0.03	9.50	15.42	24.95	53.80	-28.85	Average
6	0.20	0.03	9.50	44.72	54.25	63.80	-9.55	QP
7	0.24	0.03	9.51	12.54	22.08	52.26	-30.18	Average
8	0.24	0.03	9.51	37.89	47.43	62.26	-14.83	QP
9	0.25	0.03	9.51	12.11	21.65	51.64	-29.99	Average
10	0.25	0.03	9.51	36.45	45.99	61.64	-15.65	QP
11	0.29	0.03	9.51	14.54	24.08	50.46	-26.38	Average
12	0.29	0.03	9.51	28.68	38.22	60.46	-22.24	QP



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Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 06549RG

Test mode: e

	mouc. c							
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
_								
1	0.17	0.02	9.59	21.36	30.97	54.94	-23.97	Average
2	0.17	0.02	9.59	40.21	49.82	64.94	-15.12	QP
3	0.18	0.03	9.58	31.95	41.56	54.42	-12.86	Average
4	0.18	0.03	9.58	46.06	55.67	64.42	-8.75	QP
5	0.19	0.03	9.58	22.99	32.60	53.98	-21.38	Average
6	0.19	0.03	9.58	42.83	52.44	63.98	-11.54	QP
7	0.23	0.03	9.58	12.62	22.23	52.39	-30.16	Average
8	0.23	0.03	9.58	34.90	44.51	62.39	-17.88	QP
9	0.25	0.03	9.58	15.80	25.41	51.64	-26.23	Average
10	0.25	0.03	9.58	34.62	44.23	61.64	-17.41	QP
11	0.31	0.03	9.58	12.85	22.46	49.93	-27.47	Average
12	0.31	0.03	9.58	28.75	38.36	59.93	-21.57	QP

Notes:

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

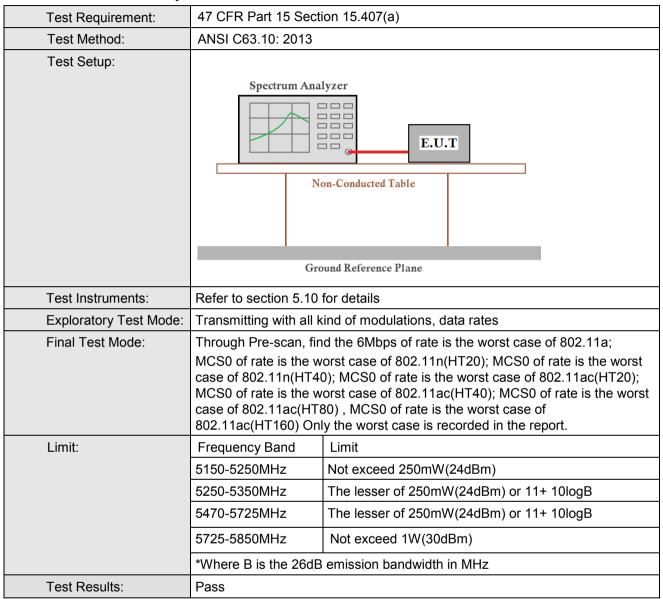
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5.3 Conducted Output Power





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Measurement Data:

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP) [dBm]	Verdict
	36	5180	ANT 1	9.93	10.93	PASS
	40	5200	ANT 1	17.02	18.02	PASS
	48	5240	ANT 1	16.98	17.98	PASS
	52	5260	ANT 1	16.96	17.96	PASS
	56	5280	ANT 1	16.85	17.85	PASS
44400 0100	64	5320	ANT 1	9.61	10.61	PASS
11A20_SISO	100	5500	ANT 1	9.86	10.86	PASS
	120	5600	ANT 1	17.43	18.43	PASS
	140	5700	ANT 1	10.21	11.21	PASS
	149	5745	ANT 1	11.69	12.69	PASS
	157	5785	ANT 1	11.97	12.97	PASS
	165	5825	ANT 1	12.27	13.27	PASS
	36	5180	ANT 1	9.87	10.87	PASS
	40	5200	ANT 1	16.45	17.45	PASS
	48	5240	ANT 1	16.31	17.31	PASS
	52	5260	ANT 1	16.26	17.26	PASS
	56	5280	ANT 1	16.24	17.24	PASS
11N20_SISO	64	5320	ANT 1	9.52	10.52	PASS
111120_3130	100	5500	ANT 1	9.81	10.81	PASS
	120	5600	ANT 1	16.95	17.95	PASS
	140	5700	ANT 1	10.29	11.29	PASS
	149	5745	ANT 1	11.17	12.17	PASS
	157	5785	ANT 1	11.54	12.54	PASS
	165	5825	ANT 1	11.77	12.77	PASS
	38	5190	ANT 1	8.29	9.29	PASS
	46	5230	ANT 1	15.24	16.24	PASS
	54	5270	ANT 1	15.09	16.09	PASS
	62	5310	ANT 1	7.83	8.83	PASS
11N40_SISO	102	5510	ANT 1	8.08	9.08	PASS
	142	5710	ANT 1	14.89	15.89	PASS
	134	5670	ANT 1	14.62	15.62	PASS
	151	5755	ANT 1	10.27	11.27	PASS
	159	5795	ANT 1	10.57	11.57	PASS
	36	5180	ANT 1	9.87	10.87	PASS
	40	5200	ANT 1	16.42	17.42	PASS
	48	5240	ANT 1	16.28	17.28	PASS
	52	5260	ANT 1	16.31	17.31	PASS
	56	5280	ANT 1	16.21	17.21	PASS
11AC20_SISO	64	5320	ANT 1	9.56	10.56	PASS
11/1020_0100	100	5500	ANT 1	9.77	10.77	PASS
	120	5600	ANT 1	16.99	17.99	PASS
	140	5700	ANT 1	10.26	11.26	PASS
	149	5745	ANT 1	11.23	12.23	PASS
	157	5785	ANT 1	11.85	12.85	PASS
	165	5825	ANT 1	11.74	12.74	PASS
11AC40_SISO	38	5190	ANT 1	8.29	9.29	PASS

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	46	5230	ANT 1	15.23	16.23	PASS
	54	5270	ANT 1	15.06	16.06	PASS
	62	5310	ANT 1	7.92	8.92	PASS
	102	5510	ANT 1	8.11	9.11	PASS
	142	5710	ANT 1	14.87	15.87	PASS
	134	5670	ANT 1	14.59	15.59	PASS
	151	5755	ANT 1	10.36	11.36	PASS
	159	5795	ANT 1	10.72	11.72	PASS
	42	5210	ANT 1	8.03	9.03	PASS
	58	5290	ANT 1	7.74	8.74	PASS
11AC80_SISO	106	5530	ANT 1	7.83	8.83	PASS
	138	5690	ANT 1	13.44	14.44	PASS
	155	5775	ANT 1	9.57	10.57	PASS
11AC160 SISO	50	5250	ANT 1	10.89	11.89	PASS
11AC100_313O	114	5570	ANT 1	11.09	12.09	PASS

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP) [dBm]	Verdict
	36	5180	ANT 2	10.87	6.37	PASS
	40	5200	ANT 2	15.56	11.06	PASS
	48	5240	ANT 2	15.75	11.25	PASS
	52	5260	ANT 2	15.80	11.30	PASS
	56	5280	ANT 2	15.85	11.35	PASS
11100 000	64	5320	ANT 2	11.43	6.93	PASS
11A20_SISO	100	5500	ANT 2	11.48	6.98	PASS
	120	5600	ANT 2	15.77	11.27	PASS
	140	5700	ANT 2	11.49	6.99	PASS
	149	5745	ANT 2	12.03	7.53	PASS
	157	5785	ANT 2	12.06	7.56	PASS
	165	5825	ANT 2	12.03	7.53	PASS
	36	5180	ANT 2	10.83	6.33	PASS
	40	5200	ANT 2	15.47	10.97	PASS
	48	5240	ANT 2	15.70	11.20	PASS
	52	5260	ANT 2	15.73	11.23	PASS
	56	5280	ANT 2	15.77	11.27	PASS
111120 8180	64	5320	ANT 2	11.36	6.86	PASS
11N20_SISO	100	5500	ANT 2	11.45	6.95	PASS
	120	5600	ANT 2	15.52	11.02	PASS
	140	5700	ANT 2	11.46	6.96	PASS
	149	5745	ANT 2	11.96	7.46	PASS
	157	5785	ANT 2	11.93	7.43	PASS
	165	5825	ANT 2	11.97	7.47	PASS
	38	5190	ANT 2	8.82	4.32	PASS
	46	5230	ANT 2	13.86	9.36	PASS
11N40_SISO	54	5270	ANT 2	14.04	9.54	PASS
111140_3130	62	5310	ANT 2	9.23	4.73	PASS
	102	5510	ANT 2	9.47	4.97	PASS
	142	5710	ANT 2	15.09	10.59	PASS

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	134	5670	ANT 2	15.14	10.64	PASS
	151	5755	ANT 2	10.91	6.41	PASS
	159	5795	ANT 2	10.83	6.33	PASS
	36	5180	ANT 2	11.16	6.66	PASS
	40	5200	ANT 2	15.48	10.98	PASS
	48	5240	ANT 2	15.67	11.17	PASS
	52	5260	ANT 2	15.71	11.21	PASS
	56	5280	ANT 2	15.75	11.25	PASS
444000 0100	64	5320	ANT 2	11.48	6.98	PASS
11AC20_SISO	100	5500	ANT 2	11.46	6.96	PASS
	120	5600	ANT 2	15.68	11.18	PASS
	140	5700	ANT 2	11.46	6.96	PASS
	149	5745	ANT 2	12.06	7.56	PASS
	157	5785	ANT 2	12.07	7.57	PASS
	165	5825	ANT 2	11.97	7.47	PASS
	38	5190	ANT 2	8.96	4.46	PASS
	46	5230	ANT 2	13.88	9.38	PASS
	54	5270	ANT 2	14.03	9.53	PASS
	62	5310	ANT 2	9.23	4.73	PASS
11AC40_SISO	102	5510	ANT 2	9.47	4.97	PASS
	142	5710	ANT 2	15.05	10.55	PASS
	134	5670	ANT 2	15.18	10.68	PASS
	151	5755	ANT 2	10.82	6.32	PASS
	159	5795	ANT 2	10.81	6.31	PASS
	42	5210	ANT 2	8.88	4.38	PASS
	58	5290	ANT 2	9.64	5.14	PASS
11AC80_SISO	106	5530	ANT 2	9.61	5.11	PASS
	138	5690	ANT 2	14.52	10.02	PASS
	155	5775	ANT 2	10.32	5.82	PASS
11AC160_SISO	50	5250	ANT 2	11.28	6.78	PASS
11/10/100_0100	114	5570	ANT 2	11.70	7.20	PASS

Test Mode	Test Chann el	Freque ncy [MHz]	Antenn a Port	Meas. Level (Cond.) [dBm]	Anten na Port	Meas. Level (Cond.) [dBm]	MIMO (Cond.) [dBm]	MIMO (EIRP) [dBm]	Verdi ct
	36	5180	ANT 1	10.51	ANT 2	10.18	13.36	12.52	PASS
	48	5240	ANT 1	16.71	ANT 2	15.59	19.20	18.57	PASS
	52	5260	ANT 1	16.64	ANT 2	15.63	19.17	18.52	PASS
44400	64	5320	ANT 1	10.13	ANT 2	10.58	13.37	12.31	PASS
11A20_ CDD	100	5500	ANT 1	10.16	ANT 2	10.28	13.23	12.27	PASS
CDD	140	5700	ANT 1	10.91	ANT 2	10.71	13.82	12.95	PASS
	149	5745	ANT 1	11.81	ANT 2	11.78	14.81	13.88	PASS
	157	5785	ANT 1	12.29	ANT 2	11.92	15.12	14.29	PASS
	165	5825	ANT 1	12.26	ANT 2	12.21	15.25	14.33	PASS
	36	5180	ANT 1	9.47	ANT 2	10.00	12.75	11.67	PASS
11N20_	48	5240	ANT 1	15.90	ANT 2	15.56	18.74	17.91	PASS
MIMO	52	5260	ANT 1	15.50	ANT 2	15.45	18.49	17.57	PASS
	64	5320	ANT 1	10.02	ANT 2	10.02	13.03	12.10	PASS

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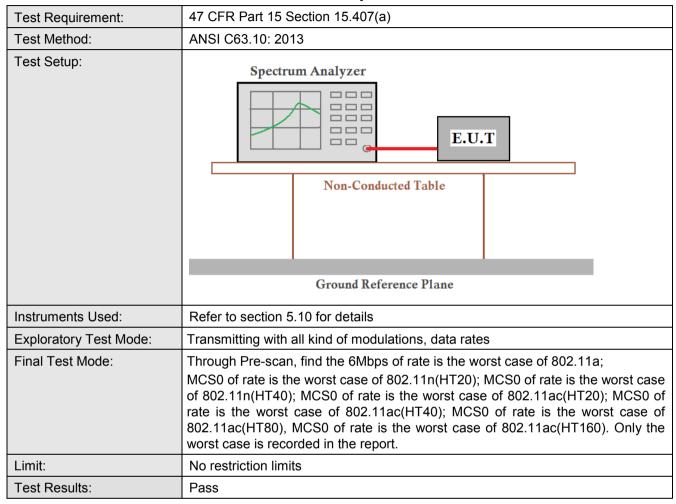
	100	5500	ANT 1	11.37	ANT 2	9.44	13.52	13.09	PASS
	140	5700	ANT 1	10.71	ANT 2	9.33	13.08	12.52	PASS
	149	5745	ANT 1	11.69	ANT 2	11.22	14.47	13.67	PASS
	157	5785	ANT 1	11.72	ANT 2	11.42	14.58	13.73	PASS
	165	5825	ANT 1	11.65	ANT 2	11.47	14.57	13.69	PASS
	38	5190	ANT 1	7.99	ANT 2	7.82	10.92	10.03	PASS
	46	5230	ANT 1	14.64	ANT 2	13.95	17.32	16.58	PASS
	54	5270	ANT 1	14.73	ANT 2	13.82	17.31	16.62	PASS
11N40_	62	5310	ANT 1	8.82	ANT 2	7.25	11.12	10.60	PASS
MIMO	102	5510	ANT 1	9.54	ANT 2	7.93	11.82	11.31	PASS
	134	5670	ANT 1	14.56	ANT 2	13.82	17.22	16.49	PASS
	151	5755	ANT 1	10.51	ANT 2	10.15	13.34	12.51	PASS
	159	5795	ANT 1	10.57	ANT 2	10.31	13.45	12.59	PASS
	36	5180	ANT 1	9.03	ANT 2	9.55	12.31	11.23	PASS
	48	5240	ANT 1	15.88	ANT 2	15.44	18.68	17.87	PASS
	52	5260	ANT 1	15.74	ANT 2	15.34	18.55	17.73	PASS
444000	64	5320	ANT 1	9.52	ANT 2	9.63	12.59	11.62	PASS
11AC20_ MIMO	100	5500	ANT 1	10.67	ANT 2	9.45	13.11	12.51	PASS
IVIIIVIO	140	5700	ANT 1	10.74	ANT 2	9.41	13.14	12.56	PASS
	149	5745	ANT 1	11.65	ANT 2	11.14	14.41	13.62	PASS
	157	5785	ANT 1	11.71	ANT 2	11.39	14.56	13.72	PASS
	165	5825	ANT 1	11.67	ANT 2	11.48	14.59	13.71	PASS
	38	5190	ANT 1	7.53	ANT 2	7.37	10.46	9.57	PASS
	46	5230	ANT 1	14.73	ANT 2	13.95	17.37	16.65	PASS
	54	5270	ANT 1	14.87	ANT 2	13.94	17.44	16.76	PASS
11AC40_	62	5310	ANT 1	7.75	ANT 2	7.39	10.58	9.75	PASS
MIMO	102	5510	ANT 1	9.26	ANT 2	7.02	11.29	10.94	PASS
	134	5670	ANT 1	14.88	ANT 2	13.71	17.34	16.73	PASS
	151	5755	ANT 1	10.66	ANT 2	10.08	13.39	12.62	PASS
	159	5795	ANT 1	10.63	ANT 2	10.23	13.44	12.62	PASS
	42	5210	ANT 1	7.13	ANT 2	7.09	10.12	9.20	PASS
111000	58	5290	ANT 1	7.45	ANT 2	7.29	10.38	9.49	PASS
11AC80_ MIMO	106	5530	ANT 1	8.76	ANT 2	6.44	10.76	10.42	PASS
IVIIIVIO	138	5690	ANT 1	14.12	ANT 2	13.18	16.69	16.01	PASS
	155	5775	ANT 1	9.42	ANT 2	9.38	12.41	11.49	PASS
11AC160	50	5250	ANT 1	9.05	ANT 2	9.19	12.13	11.16	PASS
_ MIMO	114	5570	ANT 1	9.06	ANT 2	9.09	12.09	11.14	PASS



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5.4 Emission Bandwidth and 99% Occupied Bandwidth





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5.4.1 Measurement Data:

5.4.1 IV	easureme	iii Dala.				
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
	36	5180	ANT 1	20.90	17.02	PASS
	40	5200	ANT 1	21.34	16.98	PASS
	48	5240	ANT 1	21.06	16.82	PASS
	52	5260	ANT 1	20.58	16.90	PASS
11A20_SISO	56	5280	ANT 1	20.86	16.94	PASS
	64	5320	ANT 1	20.90	16.90	PASS
	100	5500	ANT 1	20.78	16.82	PASS
	120	5600	ANT 1	20.74	16.98	PASS
	140	5700	ANT 1	20.30	16.78	PASS
	36	5180	ANT 1	21.14	17.86	PASS
	40	5200	ANT 1	21.22	17.90	PASS
	48	5240	ANT 1	20.86	17.86	PASS
	52	5260	ANT 1	21.30	17.90	PASS
11N20_SISO	56	5280	ANT 1	21.22	17.86	PASS
	64	5320	ANT 1	20.90	17.86	PASS
	100	5500	ANT 1	20.94	17.70	PASS
	120	5600	ANT 1	21.14	17.90	PASS
	140	5700	ANT 1	21.14	17.74	PASS
	38	5190	ANT 1	42.12	36.44	PASS
	46	5230	ANT 1	42.28	36.44	PASS
11N40 SISO	54	5270	ANT 1	42.28	36.36	PASS
11140_3130	62	5310	ANT 1	42.04	36.36	PASS
	102	5510	ANT 1	41.80	36.28	PASS
	134	5670	ANT 1	42.04	36.44	PASS
	36	5180	ANT 1	21.70	17.94	PASS
	40	5200	ANT 1	21.46	17.90	PASS
	48	5240	ANT 1	21.22	17.86	PASS
11AC20_SISO	52	5260	ANT 1	21.10	17.86	PASS
11/10/20_0100	56	5280	ANT 1	21.18	17.86	PASS
	64	5320	ANT 1	21.30	17.82	PASS
	100	5500	ANT 1	21.22	17.74	PASS
	120	5600	ANT 1	21.50	17.94	PASS



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	140	5700	ANT 1	20.98	17.74	PASS
	38	5190	ANT 1	42.36	36.44	PASS
	46	5230	ANT 1	41.96	36.36	PASS
11AC40_SISO	54	5270	ANT 1	42.36	36.52	PASS
11AC40_3I3O	62	5310	ANT 1	42.36	36.44	PASS
	102	5510	ANT 1	41.88	36.36	PASS
	134	5670	ANT 1	41.80	36.44	PASS
	42	5210	ANT 1	84.08	75.28	PASS
11AC80_SISO	58	5290	ANT 1	84.72	75.44	PASS
11AC00_3130	106	5530	ANT 1	85.03	75.12	PASS
	138	5690	ANT 1	84.40	75.28	PASS
11AC160_SISO	50	5250	ANT 1	173.59	155.36	PASS
	114	5570	ANT 1	174.23	154.73	PASS

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
	36	5180	ANT 2	20.78	16.86	PASS
	40	5200	ANT 2	20.50	16.82	PASS
	48	5240	ANT 2	20.74	16.82	PASS
	52	5260	ANT 2	20.54	16.86	PASS
11A20_SISO	56	5280	ANT 2	20.78	16.86	PASS
	64	5320	ANT 2	20.74	16.86	PASS
	100	5500	ANT 2	20.58	16.82	PASS
	120	5600	ANT 2	20.66	16.86	PASS
	140	5700	ANT 2	20.42	16.82	PASS
	36	5180	ANT 2	21.10	17.78	PASS
	40	5200	ANT 2	21.02	17.78	PASS
	48	5240	ANT 2	21.10	17.78	PASS
	52	5260	ANT 2	21.10	17.78	PASS
11N20_SISO	56	5280	ANT 2	21.18	17.82	PASS
	64	5320	ANT 2	21.14	17.82	PASS
	100	5500	ANT 2	21.10	17.74	PASS
	120	5600	ANT 2	21.02	17.78	PASS
	140	5700	ANT 2	21.02	17.70	PASS
11N40_SISO	38	5190	ANT 2	42.28	36.28	PASS

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	46	5230	ANT 2	42.60	36.36	PASS
	54	5270	ANT 2	42.12	36.36	PASS
	62	5310	ANT 2	41.80	36.28	PASS
	102	5510	ANT 2	42.04	36.28	PASS
	134	5670	ANT 2	42.44	36.36	PASS
	36	5180	ANT 2	21.02	17.74	PASS
	40	5200	ANT 2	21.18	17.78	PASS
	48	5240	ANT 2	21.14	17.78	PASS
	52	5260	ANT 2	20.98	17.78	PASS
11AC20_SISO	56	5280	ANT 2	21.10	17.82	PASS
	64	5320	ANT 2	21.22	17.78	PASS
	100	5500	ANT 2	21.02	17.78	PASS
	120	5600	ANT 2	21.02	17.78	PASS
	140	5700	ANT 2	21.10	17.70	PASS
	38	5190	ANT 2	41.88	36.36	PASS
	46	5230	ANT 2	42.36	36,36	PASS
11AC40_SISO	54	5270	ANT 2	42.04	36.28	PASS
11/1040_3130	62	5310	ANT 2	41.48	36.28	PASS
	102	5510	ANT 2	42.12	36.28	PASS
	134	5670	ANT 2	41.96	36.44	PASS
	42	5210	ANT 2	85.35	75.28	PASS
11AC80_SISO	58	5290	ANT 2	84.40	75.12	PASS
	106	5530	ANT 2	84.72	75.28	PASS
	138	5690	ANT 2	84.72	75.44	PASS
1110100 0:55	50	5250	ANT 2	172.31	154.73	PASS
11AC160_SISO	114	5570	ANT 2	173.59	154.73	PASS

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
	36	5180	ANT 1	20.82	16.78	PASS
11A20_ CDD	48	5240	ANT 1	21.38	17.02	PASS
	52	5260	ANT 1	21.18	16.94	PASS
	64	5320	ANT 1	20.70	16.78	PASS
	100	5500	ANT 1	20.62	16.82	PASS
	140	5700	ANT 1	20.78	16.78	PASS

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		Г	1		T	
	36	5180	ANT 1	21.10	17.74	PASS
11N20_ MIMO	48	5240	ANT 1	21.02	17.90	PASS
	52	5260	ANT 1	21.46	17.90	PASS
T TINZO_ IVIIIVIO	64	5320	ANT 1	21.06	17.74	PASS
	100	5500	ANT 1	21.14	17.70	PASS
	140	5700	ANT 1	21.18	17.74	PASS
	38	5190	ANT 1	42.12	36.28	PASS
	46	5230	ANT 1	42.12	36.36	PASS
110/40 04/040	54	5270	ANT 1	41.56	36.36	PASS
11N40_ MIMO	62	5310	ANT 1	42.36	36,36	PASS
	102	5510	ANT 1	41.64	36,28	PASS
	134	5670	ANT 1	42.20	36,36	PASS
	36	5180	ANT 1	20.90	17.78	PASS
	48	5240	ANT 1	21.34	17.94	PASS
11AC20_	52	5260	ANT 1	22.22	17.90	PASS
MIMO [—]	64	5320	ANT 1	20.86	17.74	PASS
	100	5500	ANT 1	20.90	17.74	PASS
	140	5700	ANT 1	20.90	17.74	PASS
	38	5190	ANT 1	42.60	36.28	PASS
	46	5230	ANT 1	42.04	36.44	PASS
11AC40_	54	5270	ANT 1	42.52	36.44	PASS
MIMO _	62	5310	ANT 1	41.96	36.28	PASS
	102	5510	ANT 1	42.04	36.28	PASS
	134	5670	ANT 1	42.20	36.44	PASS
	42	5210	ANT 1	84.40	75.28	PASS
11AC80_ MIMO	58	5290	ANT 1	83.76	75.12	PASS
	106	5530	ANT 1	84.24	75.12	PASS
	138	5690	ANT 1	85.51	75.28	PASS
11AC160_	50	5250	ANT 1	175.18	155.36	PASS
MIMO	114	5570	ANT 1	175.18	154.73	PASS



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Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
	36	5180	ANT 2	20.26	16.66	PASS
	48	5240	ANT 2	20.46	16.74	PASS
11A20 CDD	52	5260	ANT 2	20.30	16.74	PASS
11A20_ CDD	64	5320	ANT 2	20.46	16.62	PASS
	100	5500	ANT 2	20.26	16.62	PASS
	140	5700	ANT 2	20.26	16.66	PASS
	36	5180	ANT 2	20.82	17.66	PASS
	48	5240	ANT 2	20.78	17.66	PASS
11N20 MIMO	52	5260	ANT 2	20.74	17.70	PASS
11N20_ MIMO	64	5320	ANT 2	20.70	17.66	PASS
	100	5500	ANT 2	20.74	17.66	PASS
	140	5700	ANT 2	20.86	17.66	PASS
	38	5190	ANT 2	40.92	36.12	PASS
	46	5230	ANT 2	40.92	36.12	PASS
11N40 NIN40	54	5270	ANT 2	40.84	36.12	PASS
11N40_ MIMO	62	5310	ANT 2	41.08	36.12	PASS
	102	5510	ANT 2	41.00	36.12	PASS
	134	5670	ANT 2	41.24	36.12	PASS
	36	5180	ANT 2	20.78	17.66	PASS
	48	5240	ANT 2	21.18	17.70	PASS
444000 14140	52	5260	ANT 2	21.02	17.74	PASS
11AC20_ MIMO	64	5320	ANT 2	20.58	17.66	PASS
	100	5500	ANT 2	20.80	17.66	PASS
	140	5700	ANT 2	20.74	17.66	PASS
	38	5190	ANT 2	40.92	36.20	PASS
11AC40_ MIMO	46	5230	ANT 2	41.24	36.20	PASS
	54	5270	ANT 2	41.16	36.20	PASS
	62	5310	ANT 2	41.16	36.12	PASS
	102	5510	ANT 2	41.16	36.12	PASS
	134	5670	ANT 2	41.48	36.28	PASS
110000 141140	42	5210	ANT 2	83.12	75.12	PASS
11AC80_MIMO	58	5290	ANT 2	82.96	75.12	PASS

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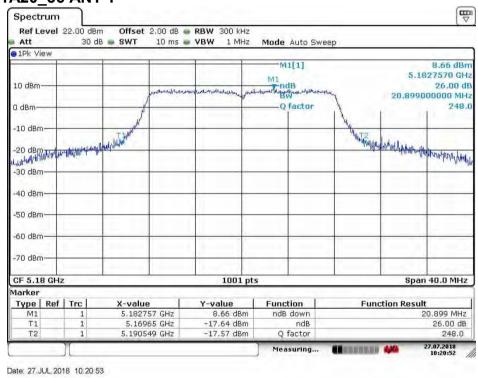
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	106	5530	ANT 2	83.60	75.28	PASS
	138	5690	ANT 2	83.60	75.28	PASS
11AC160_MIMO	50	5250	ANT 2	172.95	154.41	PASS
	114	5570	ANT 2	171.99	154.73	PASS

5.4.2 Plots for 26dB Emission Bandwidth & 99% Occupied Bandwidth

5.4.2.1 SISO ANT 1

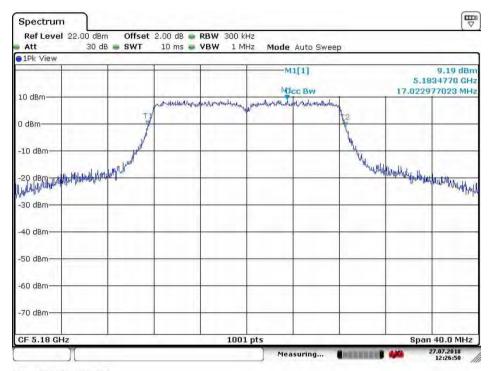
5.4.2.1.1 11A20 36 ANT 1





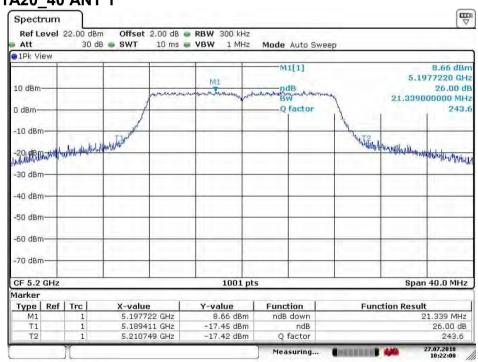
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Date: 27 JUL 2018 12:26:50

5.4.2.1.2 11A20 40 ANT 1

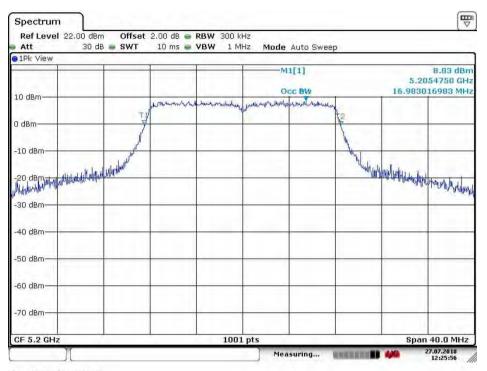


Date: 27.JUL.2018 10:22:01



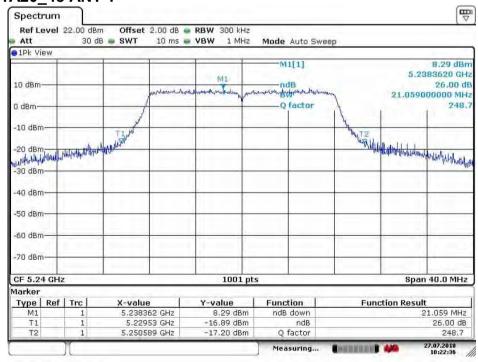
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Date: 27.JUL.2018 12:25:57

5.4.2.1.3 11A20 48 ANT 1

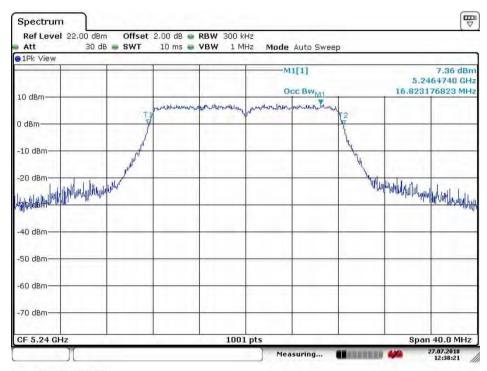


Date: 27 JUL 2018 10:22:36



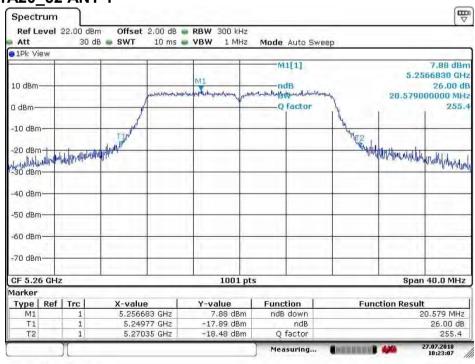
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Date: 27.JUL.2018 12:38:21

5.4.2.1.4 11A20 52 ANT 1

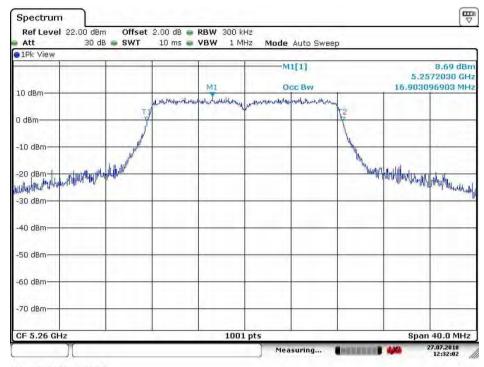


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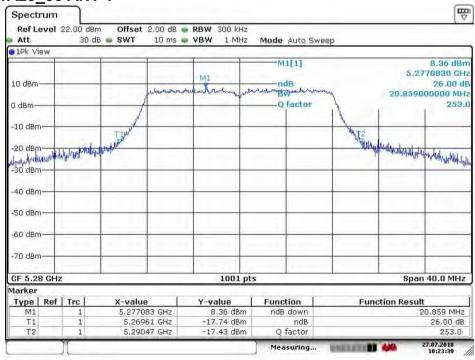
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Date: 27 JUL 2018 12:32:02

5.4.2.1.5 11A20 56 ANT 1

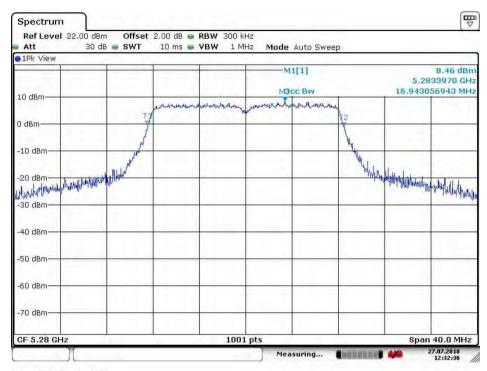


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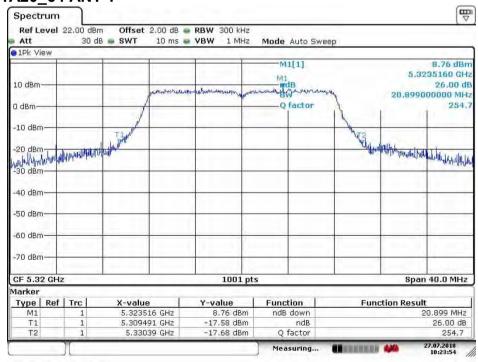
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Date: 27.JUL.2018 12:32:36

5.4.2.1.6 11A20 64 ANT 1

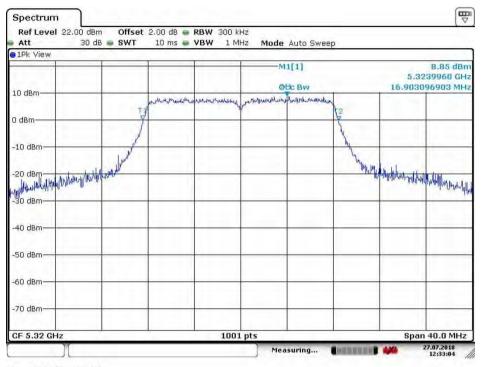


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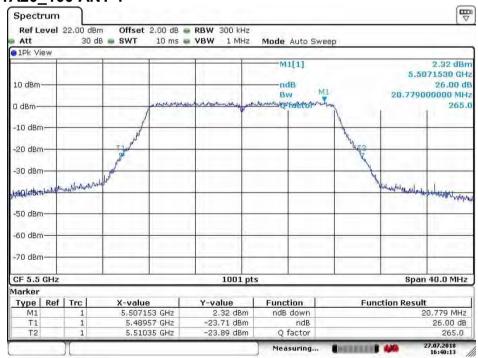
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Date: 27 JUL 2018 12:33:04

5.4.2.1.7 11A20 100 ANT 1



Date: 27 JUL 2018 16:40:14



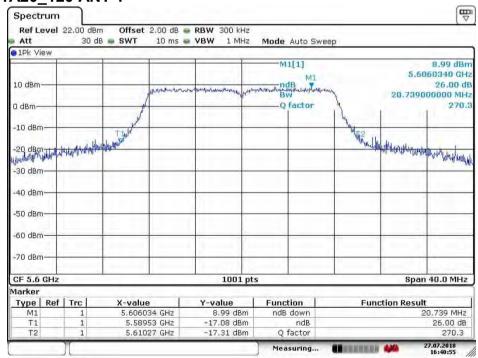
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Date: 27.JUL.2018 16:16:00

5.4.2.1.8 11A20 120 ANT 1

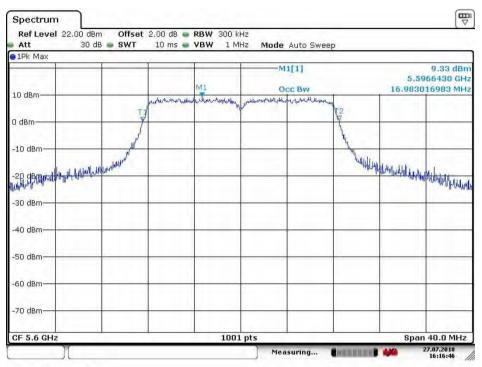


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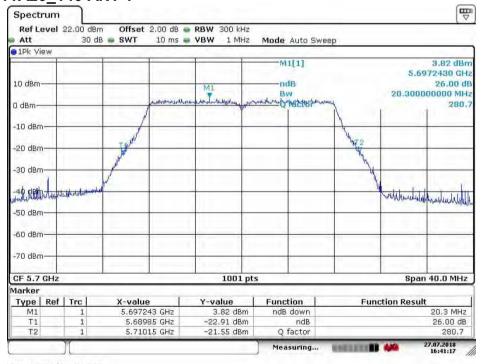
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5.4.2.1.9 11A20 140 ANT 1

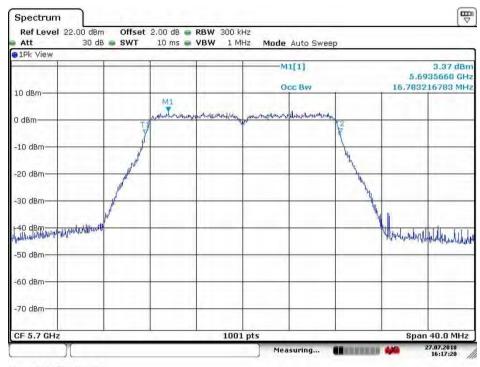


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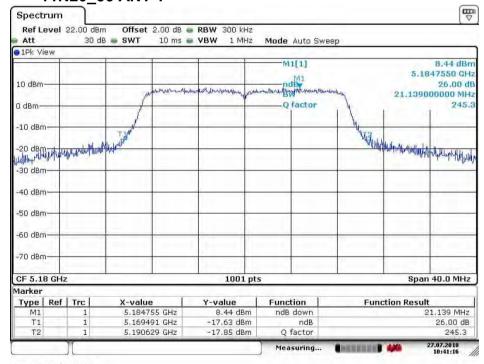
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5.4.2.1.10 11N20 36 ANT 1

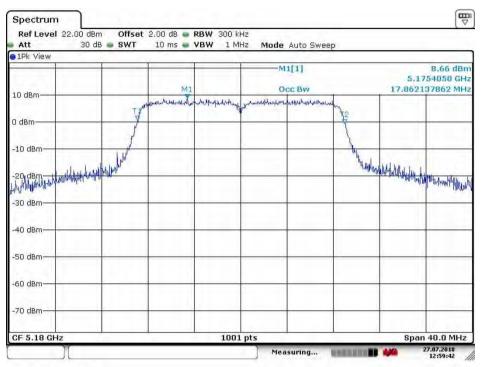


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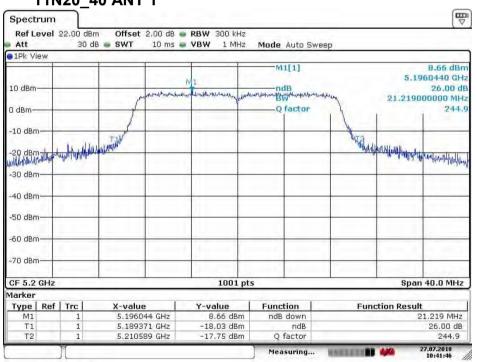
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5.4.2.1.11 11N20 40 ANT 1

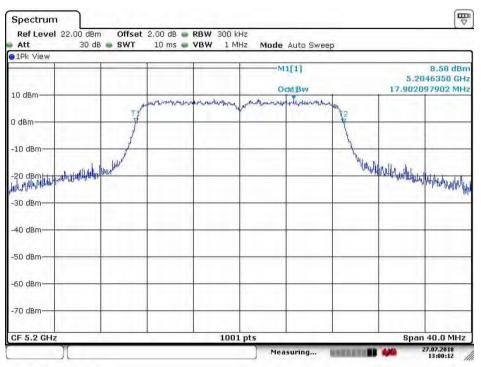


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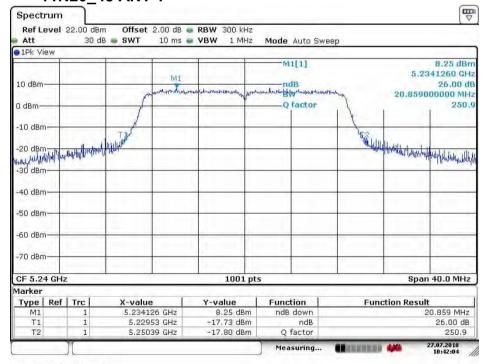
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Date: 27.JUL.2018 13:00:13

5.4.2.1.12 11N20 48 ANT 1

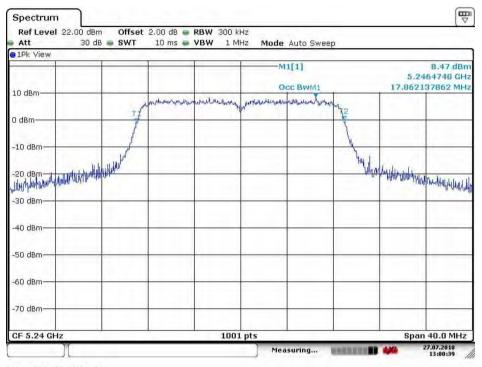


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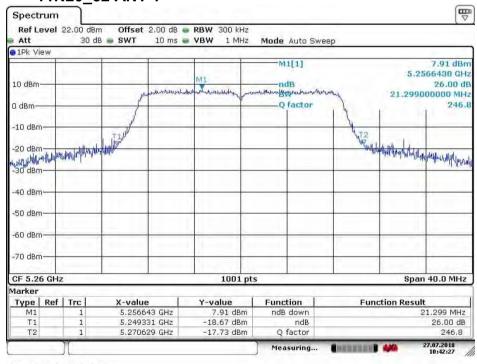
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5.4.2.1.13 11N20 52 ANT 1

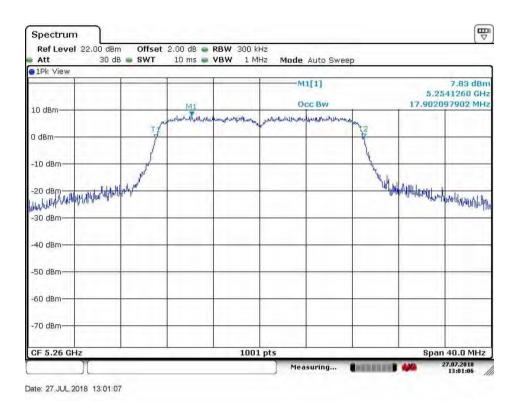


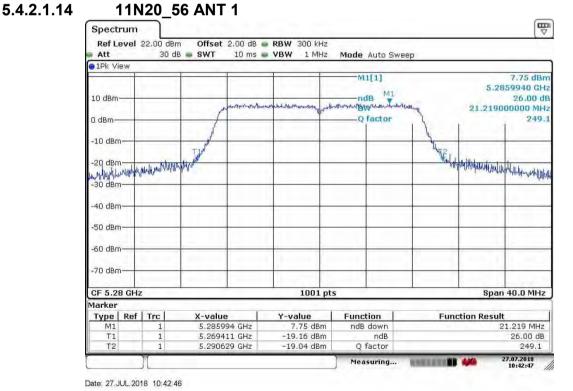
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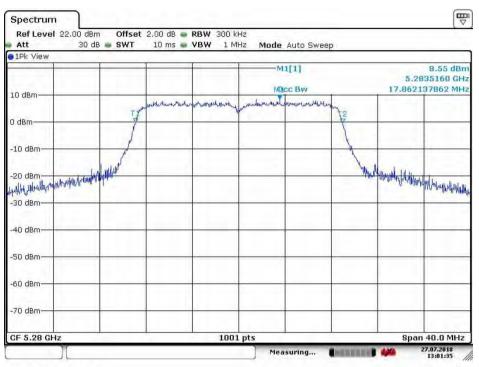






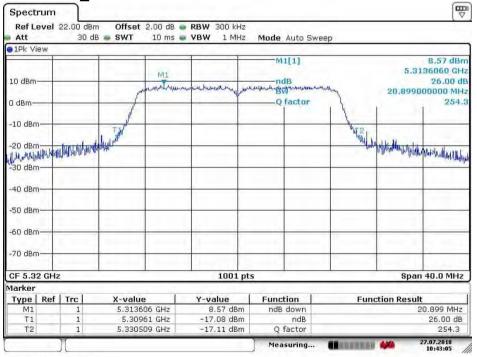
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5.4.2.1.15 11N20_64 ANT 1

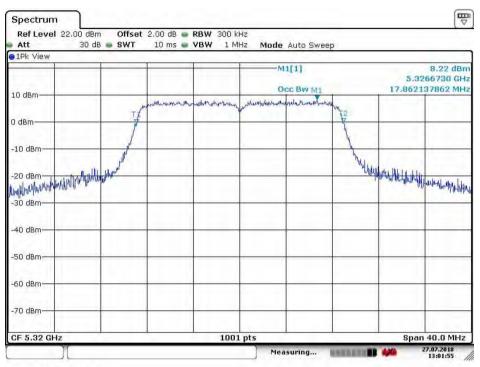


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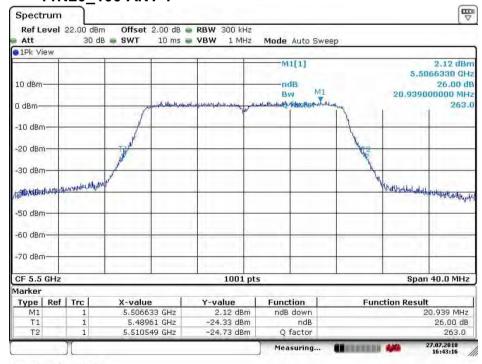
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Date: 27.JUL.2018 13:01:55

5.4.2.1.16 11N20 100 ANT 1

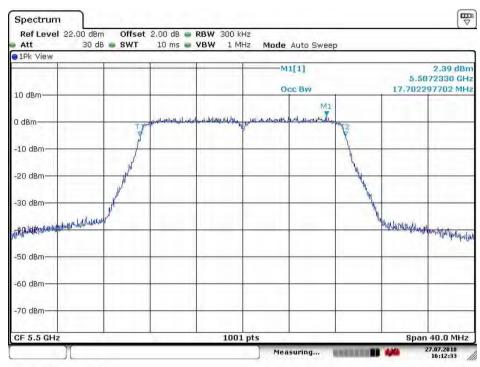


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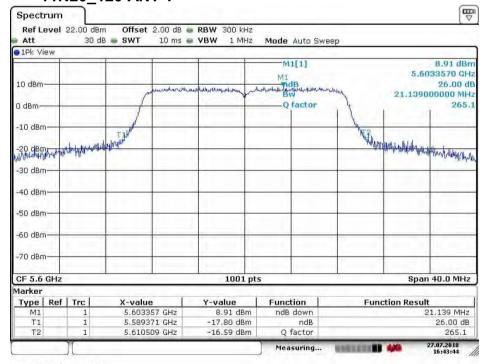
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5.4.2.1.17 11N20 120 ANT 1

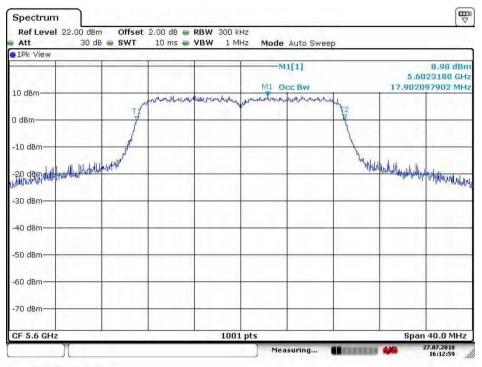


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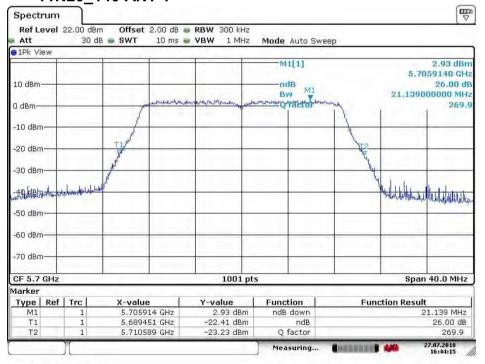
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5.4.2.1.18 11N20 140 ANT 1

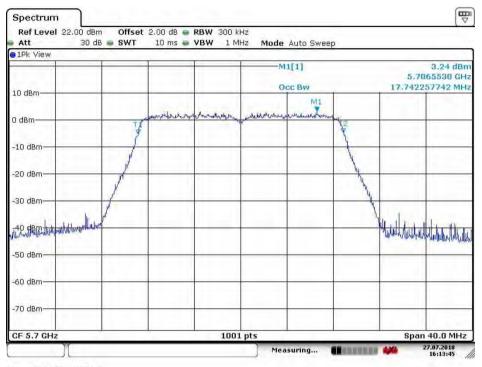


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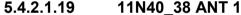


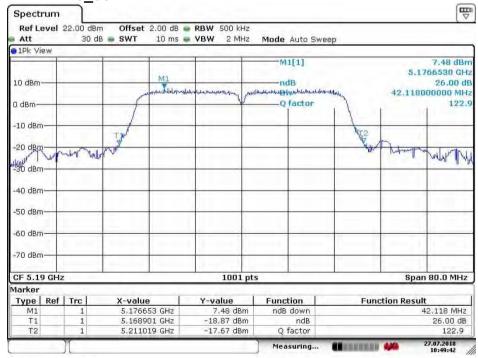
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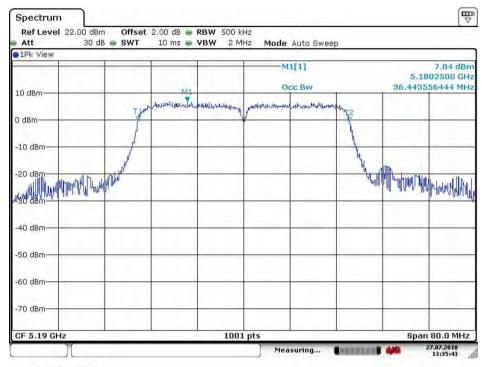


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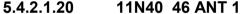


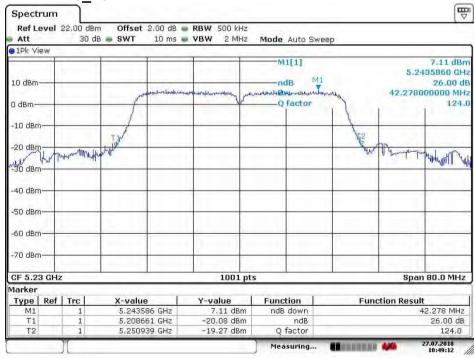
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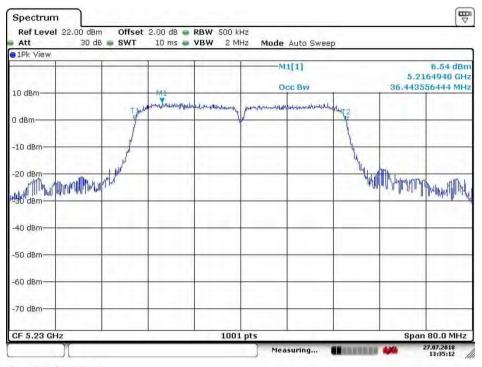


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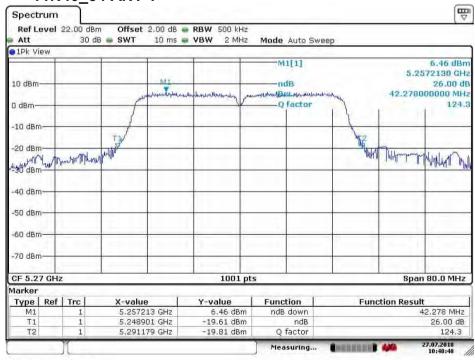
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5.4.2.1.21 11N40 54 ANT 1

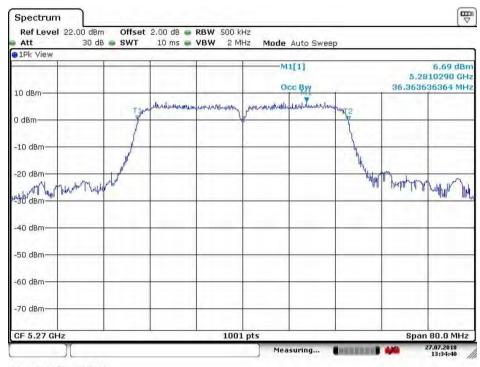


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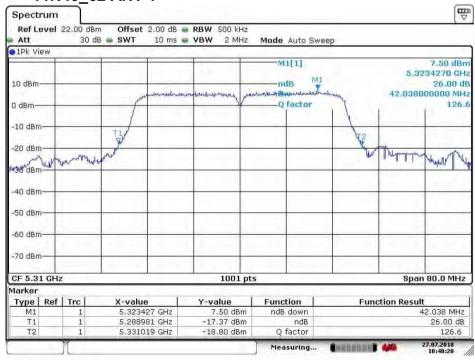
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5.4.2.1.22 11N40 62 ANT 1

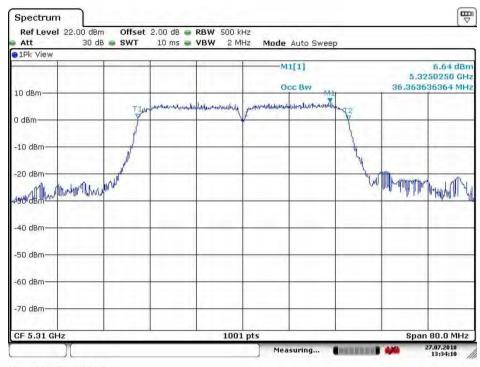


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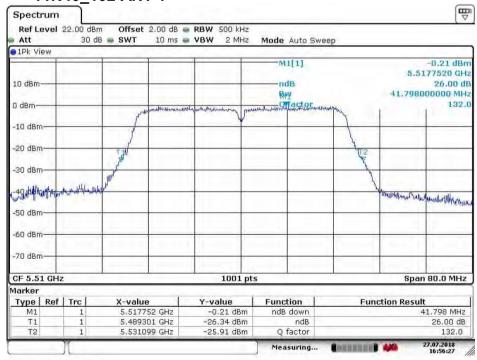
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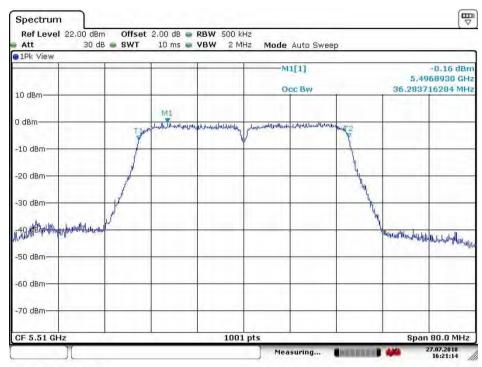


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Date: 27.JUL.2018 16:21:14

5.4.2.1.24 *'*

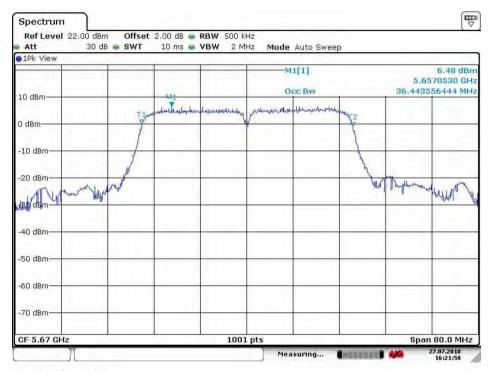
11N40 134 ANT 1 Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 500 kHz 30 dB 🕳 SWT 10 ms a VBW Att 2 MHz Mode Auto Sweep 1Pk View M1[1] 6.69 dBm 5,6835860 GHz 10 dBm ndB 26,00 dB le conservation de la president de la conservation 42.038000000 MHz O factor 135.2 O dam -10 dBm THE THE PARTY Und horden has -40 dBm -50 dBm -70 dBm-CF 5.67 GHz 1001 pts Span 80.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 42.038 MHz 5.683586 GHz 6.69 dBm 26.00 dB 5.649061 GHz -20.17 dBm ndB 19.06 dBm Q factor 135.2 27.07.2018 16:56:51 Measuring...

Date: 27.JUL.2018 16:56:52



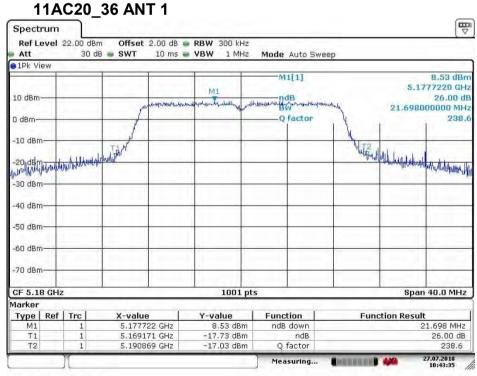
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5.4.2.1.25 11AC

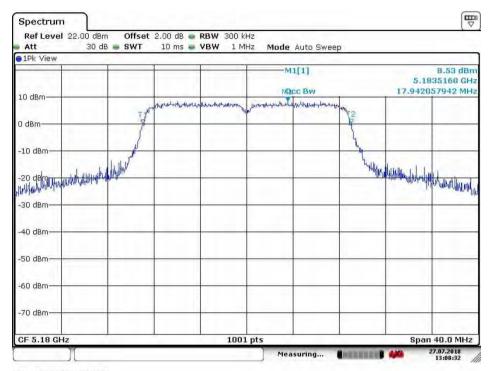


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5.4.2.1.26

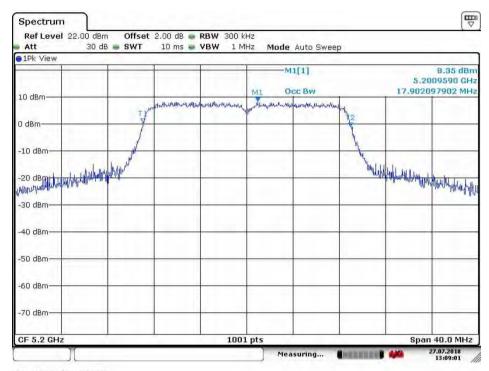
11AC20_40 ANT 1 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 300 kHz 30 dB 🕳 SWT 10 ms a VBW Att 1 MHz Mode Auto Sweep 1Pk View M1[1] 8.43 dBm 5.2051950 GHz ndB T 10 dBm 26,00 dB while washing 21.459000000 MHz Q factor 242.6 O dam -10 dBm a Falkapalah proposition de proposition de la de -20 aBm -30 dBm -40 dBm -50 dBm -70 dBm-CF 5.2 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 8.43 dBm -17.22 dBm 21.459 MHz 205195 GHz 26.00 dB 5.189211 GHz ndB 17.26 dBm Q factor 242.6 27.07.2018 Measuring...

Date: 27.JUL.2018 10:44:02



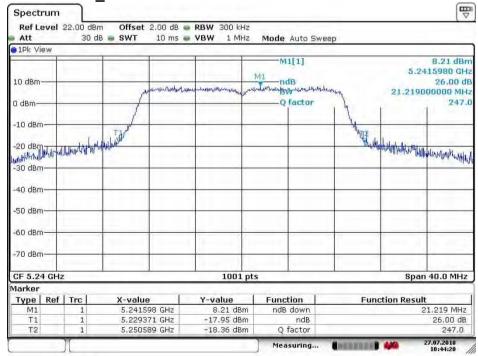
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5.4.2.1.27 11AC20_48 ANT 1

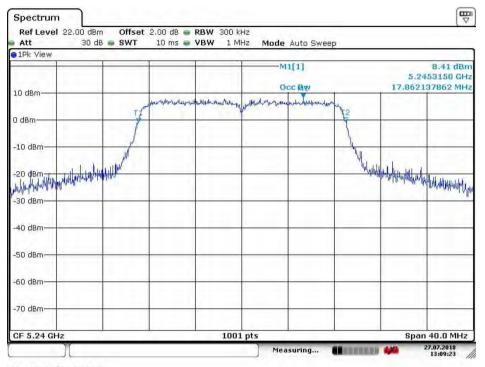


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5.4.2.1.28

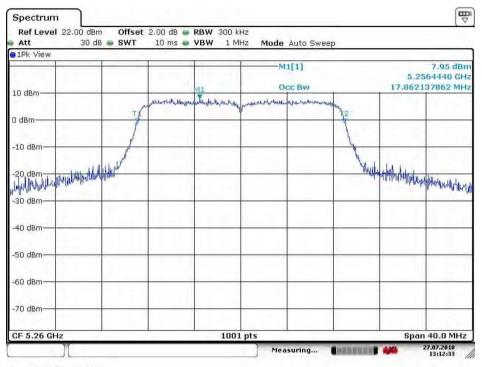
11AC20_52 ANT 1 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 300 kHz 30 dB 🕳 SWT 10 ms a VBW 1 MHz Att Mode Auto Sweep 1Pk View M1[1] 7.61 dBm 5.2577220 GHz 10 dBm ndB 26,00 dB and the state of 21.099000000 MHz Q factor 249.2 O dam -10 dBm THE WAR alhandhyddalland that the same and the same same -40 dBm -50 dBm -70 dBm-CF 5.26 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 7.61 dBm -18.32 dBm 21.099 MHz 257722 GHz 5.249491 GHz 26.00 dB ndB 18.55 dBm Q factor 249.2 27.07.2018 Measuring... Date: 27 JUL 2018 10:44:38

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5.4.2.1.29 1

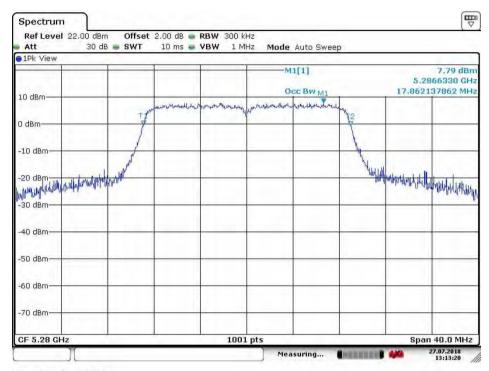
11AC20_56 ANT 1 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB - RBW 300 kHz 30 dB 🕳 SWT 10 ms a VBW 1 MHz Att Mode Auto Sweep 1Pk View M1[1] 7.79 dBm 5.2734470 GHz 10 dBm ndB 26,00 dB 21.179000000 MHz BURN O factor 249.0 O dam -10 dBm Matthe Market and Market and of the -20 dBm -30 dBn -40 dam -50 dBm -70 dBm-CF 5.28 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 7.79 dBm -18.71 dBm 21.179 MHz 73447 GHz 5.269371 GHz 26.00 dB ndB 18.22 dBm Q factor 249.0 Measuring...

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5.4.2.1.30

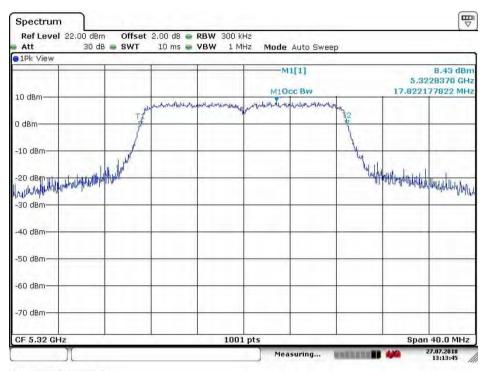
11AC20_64 ANT 1 H V Spectrum Ref Level 22.00 dBm Offset 2.00 dB @ RBW 300 kHz 30 dB 🕳 SWT 10 ms a VBW 1 MHz Att Mode Auto Sweep 1Pk View M1[1] 8.46 dBm 5.3215180 GHz 10 dBm 26,00 dB entransport 21.299000000 MHz Q factor 249.9 O dam -10 dBmwater the deal party -20 dBm -30 dBm -40 dam -50 dBm -70 dBm-CF 5.32 GHz 1001 pts Span 40.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value 321518 GHz 21.299 MHz 8.46 dBm -17.87 dBm 26.00 dB 5,309411 GHz ndB -16.71 dBm Q factor 27.07.2018 Measuring...

Date: 27.JUL.2018 10:45:09



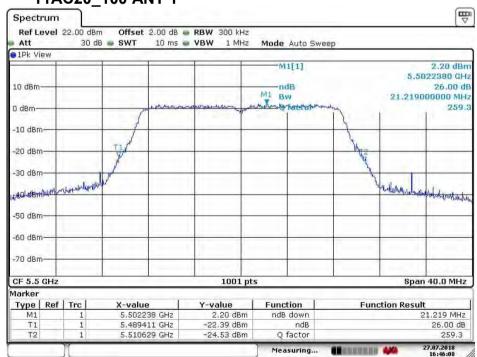
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5.4.2.1.31 11AC20_100 ANT 1

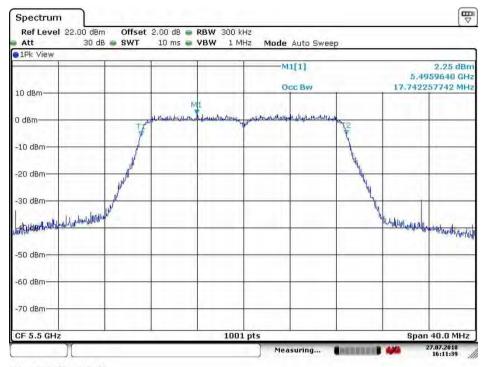


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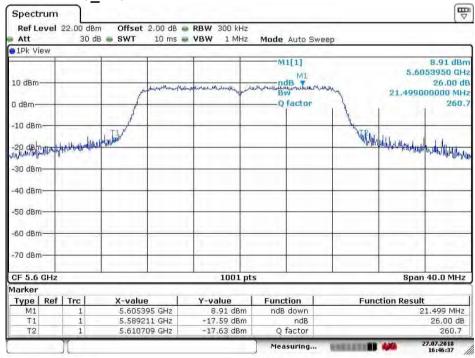
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5.4.2.1.32 11AC20_120 ANT 1

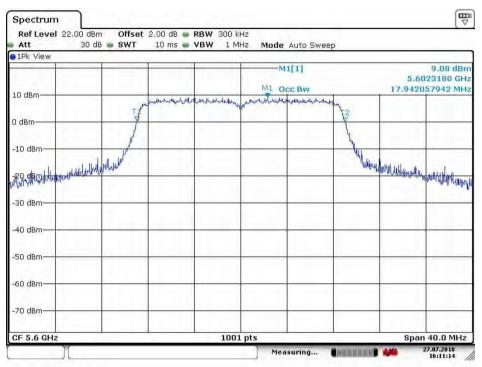


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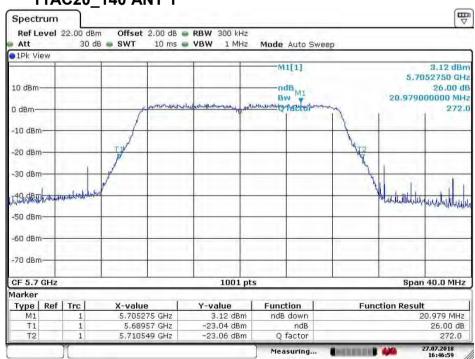
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5.4.2.1.33 11AC20 140 ANT 1

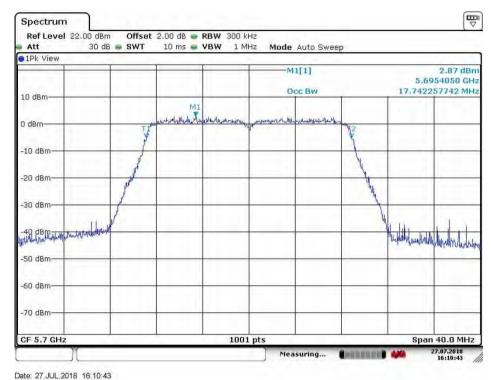


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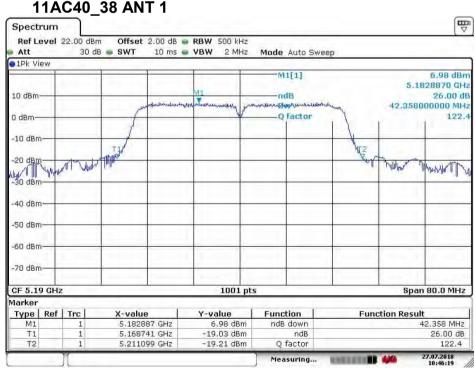
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5.4.2.1.34 11AC40

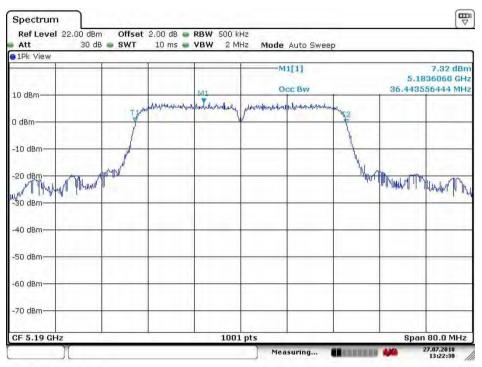


Date: 27.JUL.2018 10:46:19



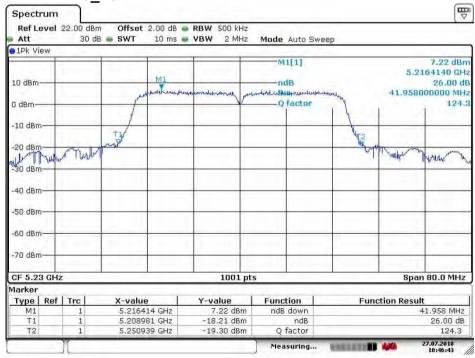
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5.4.2.1.35 11AC40_46 ANT 1

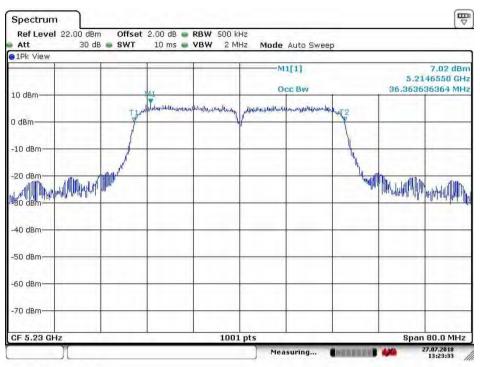


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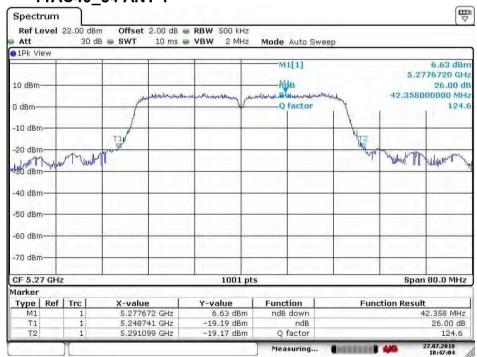
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5.4.2.1.36 11AC40 54 ANT 1

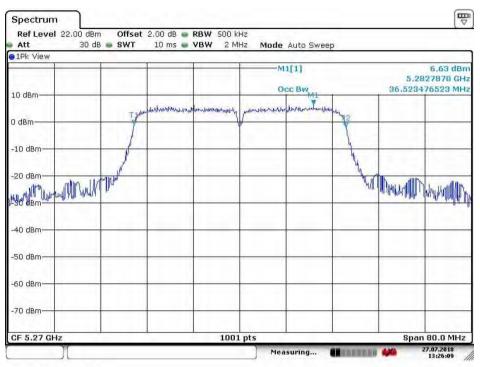


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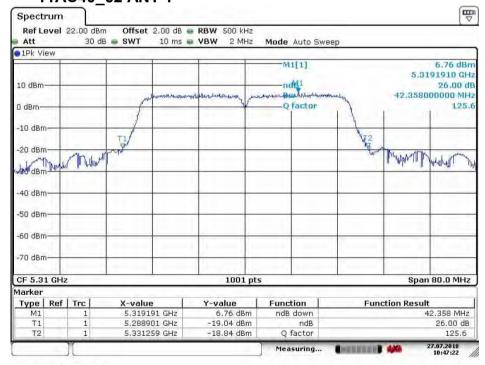
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5.4.2.1.37 11AC40 62 ANT 1

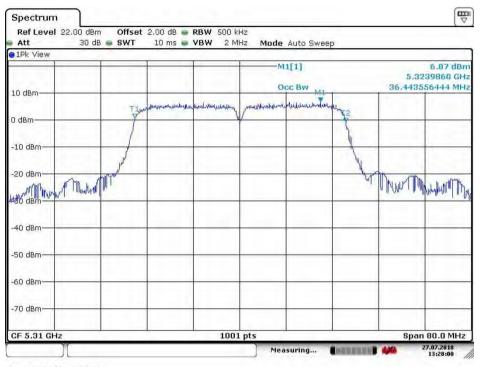


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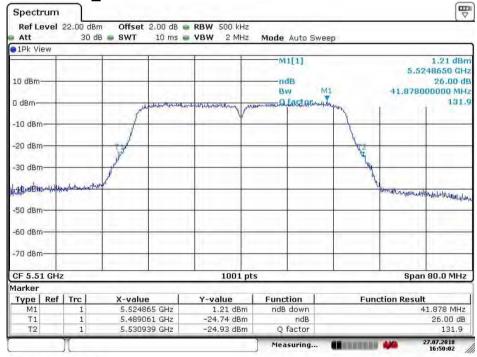
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5.4.2.1.38 11AC40_102 ANT 1



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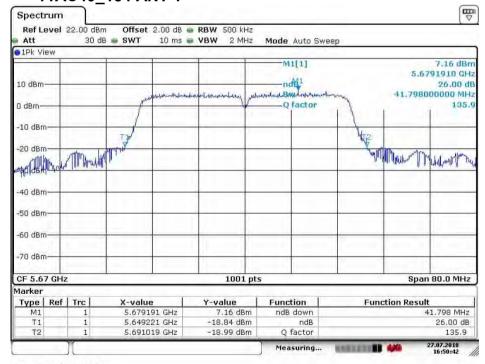
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5.4.2.1.39 11AC40 134 ANT 1



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