

Report No.:AR/2020/9001005-01

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FCC TEST REPORT

Application No: AR/2020/90010

Applicant: Xiaomi Communications Co., Ltd.

Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District,

Beijing, China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.

Address of Manufacturer #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District,

Beijing, China, 100085

EUT Description: Mobile Phone

Model No.: M2010J19CG,M2010J19CT

Trade Mark: POCO

FCC ID: 2AFZZJ19CG

47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart C

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 v0502 KDB 662911 D01 Multiple Transmitter Output v02r01

Test Method: KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

KDB 905462 D03 Client Without DFS New Rules v01r02

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

Wireless Devices

Date of Receipt: 2020/9/29

Date of Test: 2020/9/29 to 2020/10/16

Date of Issue: 2021/4/21

Test Result: PASS *

Authorized Signature:

Derell yang

Derek Yang Wireless Laboratory Manager



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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	
01		2020/10/18		Original	
02		2021/4/21	Flora.Wang	Add test site Information Addify data conversion error of antenna height Aupdate equipment list	

Authorized for issue by:		
Prepared By	Floror Wang	
	(Flora Wang) /Project Engineer	
Checked By	David Chen	
	(David Chen) /Reviewer	



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2 Test Summary

Test Item	Band	FCC rules	Test Requirements	Test Result	Result	Test Lab*
26dB Emission Bandwidth	5150- 5250 5250- 5350 5470- 5725	15.403(i) 15.407(a)(1) 15.407(a)(2) 15.407(a)(2) 15.403(i) 15.407(a)(2)	No limit.	Clause 4.5	PASS	Α
6dB Emission Bandwidth	5725- 5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 4.6	PASS	А
99% Occupied Bandwidth	5150- 5250 5250- 5350 5470- 5725- 5725- 5850	KDB 789033 D02§ D	No limit.	Clause 4.7	PASS	А
Duty Cycle	5150- 5850		No limit.	Clause 4.3	PASS	Α
Maximum Conducted Output Power	5150- 5250 5250- 5350 5470- 5725 5725- 5850	15.407(a)(1) 15.407(a)(4) 15.407(a)(2) 15.407(a)(4) 15.407(a)(2) 15.407(a)(4) 15.407(a)(3)	FCC < 250mW (avg during transmission) <min{250mw,11dbm+10*lg(ebw)} (avg="" 1w="" <="" <min{250mw,11dbm+10*lg(ebw)}="" during="" td="" transmission)="" transmission)<=""><td>Clause 4.4</td><td>PASS</td><td>A</td></min{250mw,11dbm+10*lg(ebw)}>	Clause 4.4	PASS	A
Maximum Power Spectral Density	5150- 5250 5250- 5350 5470- 5725 5725- 5850	15.407(a)(1) 15.407(a)(4) 15.407(a)(2) 15.407(a)(4) 15.407(a)(2) 15.407(a)(4) 15.407(a)(3) 15.407(a)(4)	<pre><11dBm/MHz (avg during transmission) <11dBm/MHz (avg during transmission) <11dBm/MHz (avg during transmission) <30dBm/500KHz (avg during transmission)</pre>	Clause 4.8	PASS	A
Unwanted Emissions that fall Out of the Restricted	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 4.9	PASS	В
Bands (Radiated)	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.		PASS	



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		T		1	1	
			5.25-5.35 GHz). F≥1GHz & in-restricted:			
			§15.209/§7.2.5 limit (AV&PK).			
			F<1GHz:			
	5470- 5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	§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).		PASS	
	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 &out-restricted:(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).		PASS	
Unwanted Emissions in the Restricted Bands (Radiated)	5150- 5250 5250- 5350 5470- 5725 5725- 5850	15.209		Clause 4.10	PASS	В
AC Power Line Conducted Emissions	5150- 5250 5250- 5350 5470- 5725 5725- 5850	15.207		Clause 4.2	PASS	В
Frequency Stability	5150- 5250 5250- 5350	15.209		Clause 4.11	PASS	А



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	5470- 5725 5725- 5850					
Dynamic Frequency Selection	5250- 5350 5470- 5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time:10 Seconds	Clause 4.12	PASS	A

Remark: All test were performed by Lab A and B. Parts of test items above were subcontracted to Lab B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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Remark

Item	M2010J19CG	M2010J19CT
LTE Band 41	Support	Not Support

Note: customer declaration, two models are the same, except for model. There are more than one model, each one should be applied throughout the compliance test respectively, However, only the worst case(M2010J19CG) will be recorded in this report.



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General Information 3

3.1 Client Information

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

3.2 Test Location

Lab A:

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
Test engineer:	Dee Zheng, Mike Hu

Lab B:

Euo D.	
Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen



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3.3 Test Facility

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

Lab A:

• 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.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	Mobile Phone		
Model No.:	M2010J19CG,M2010J19CT		
Trade Mark:	POCO		
Hardware Version:	P2		
Software Version:	MIUI12		
IEEE 802.11 WLAN Mode Supported:	 ⊠ 802.11a (20 MHz channel bandwidth); ⋈ 802.11n (20 MHz channel bandwidth); ⋈ 802.11n (40 MHz channel bandwidth); ⋈ 802.11ac (20 MHz channel bandwidth); ⋈ 802.11ac (40 MHz channel bandwidth); ⋈ 802.11ac (80 MHz channel bandwidth); ⋈ 802.11ac (160 MHz channel bandwidth), 		
Operation Frequency:	IEEE 802.11n(HT20/40)/ ac(HT20/40/80/): 5150MHz to 5250MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5250MHz to 5350MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80/160): 5470MHz to 5725MHz IEEE 802.11n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5825MHz		
Type of Modulation:	OFDM		
DFS mode:	☐Master ☐ Slave with radar detection ☐Slave without radar detection		
Sample Type:	⊠ Portable Device,		
Antenna Type:	PIFA Antenna		
Antenna Ports			
Smart System	SISO (for 802.11a/n/ac),☐ MIMO (for 802.11n/ac),☐ Diversity (for 802.11a) : Tx & Rx		
Antenna Gain:	0dBi,		
Power Supply	□ AC/DC Adapter; □ PoE:; □ Other:		

Remark:

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:

DOIOW.					
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)
IEEE 802.11a/n/ac 20MHz	The Lowest channel	5180



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	The Middle channel	5200
	The Highest channel	5240
IEEE 000 44 de 40MH	The Lowest channel	5190
IEEE 802.11n/ac 40MHz	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
IEEE 902 11n/oo 10MHz	The Lowest channel	5270
IEEE 802.11n/ac 40MHz	The Highest channel	5310
IEEE 802.11ac 80MHz	The Middle channel	5290

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5500
IEEE 802.11a/n/ac 20MHz	The Middle channel	5580
	The Highest channel	5700
	The Lowest channel	5510
IEEE 802.11n/ac 40MHz	The Middle channel	5500
	The Highest channel	5670
IEEE 802.11ac 80MHz	The Lowest channel	5500
	The Highest channel	5580

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	5805
IEEE 000 44n/oo 40MH-	The Lowest channel	5755
IEEE 802.11n/ac 40MHz	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775



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3.5 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 Test results and Measurement Data

4.1 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					
-1.0dBi.					

4.2 Conducted Emissions

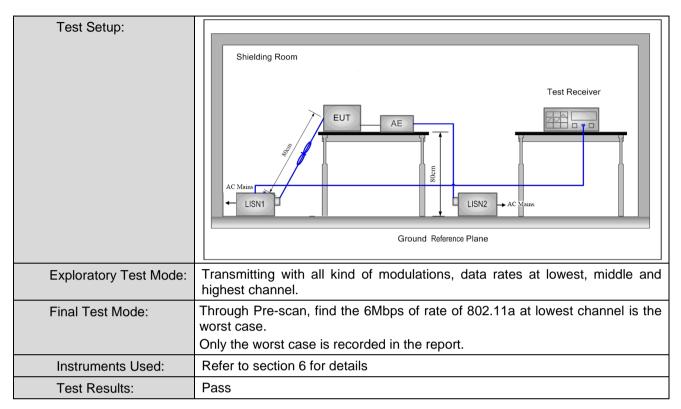
Test Description		5 407(L)				
Test Requirement:	47 CFR Part 15 Section 1	5.407(b)				
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:	Fraguenay ranga (MHz)	Limit (dBuV)				
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the loga	rithm of the frequency.				
Test Procedure:						



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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.



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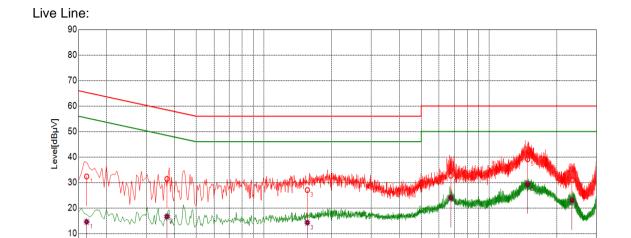
150k

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

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_	- QP Limit		AV Limit	— РК	— AV
0	QP Detector	*	AV Detect	or	

Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре
1	0.1630	10.10	32.38	65.31	32.93	14.57	55.31	40.74	L
2	0.3707	10.10	31.40	58.49	27.09	16.67	48.49	31.82	L
3	1.5583	10.10	27.06	56.00	28.94	14.28	46.00	31.72	L
4	6.7594	10.10	32.64	60.00	27.36	23.98	50.00	26.02	L
5	14.8468	10.11	39.11	60.00	20.89	29.34	50.00	20.66	L
6	23.3803	10.11	30.97	60.00	29.03	22.99	50.00	27.01	L

Frequency[Hz]



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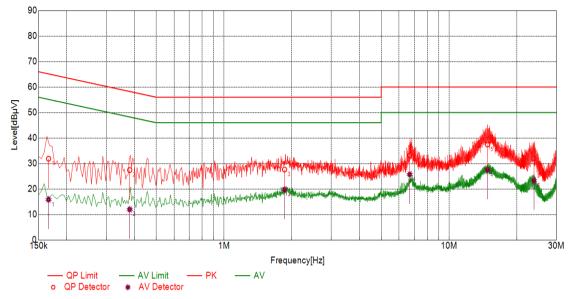
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Neutral Line:



Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре
1	0.1662	10.10	31.87	65.15	33.28	15.83	55.15	39.32	N
2	0.3814	10.10	27.44	58.25	30.81	11.99	48.25	36.26	N
3	1.8586	10.10	27.64	56.00	28.36	19.71	46.00	26.29	N
4	6.6859	10.10	33.16	60.00	26.84	25.73	50.00	24.27	N
5	14.8157	10.11	37.46	60.00	22.54	27.57	50.00	22.43	N
6	23.8239	10.11	32.01	60.00	27.99	23.29	50.00	26.71	N

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

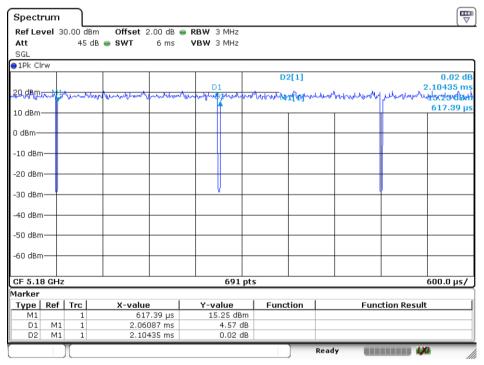
4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]	Duty Cycle Correction Factor[dB]
11A	Ant 1: CH149, CH157, CH161	97.93	0.09
11N20	Ant 1: CH149, CH157, CH161	97.79	0.10
11N40	Ant 1: CH151, CH159	96.02	0.18
11AC20	Ant 1: CH149, CH157, CH161	97.80	0.10
11AC40	Ant 1: CH151, CH159	96.48	0.16
11AC80	Ant 1: CH155	92.61	0.33

4.3.1 Test Plots

4.3.1.1 ANT1

4.3.1.1.1 11A



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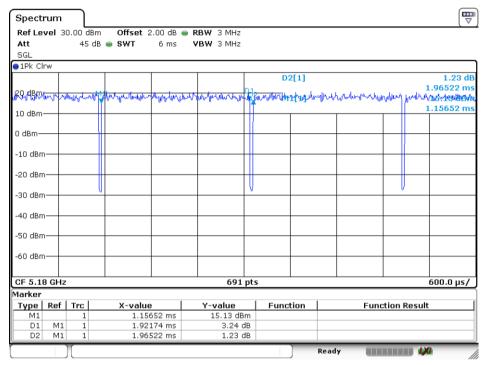


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4.3.1.1.2 11N20



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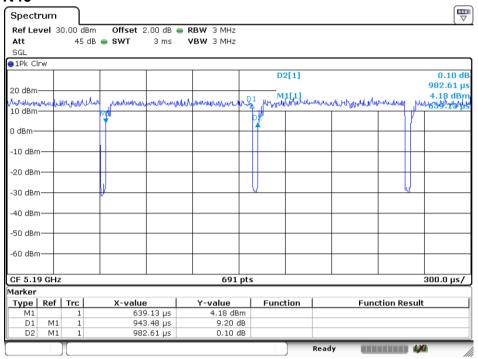
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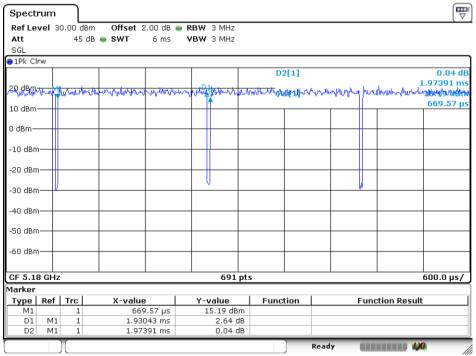
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4.3.1.1.3 11N40



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4.3.1.1.4 11AC20



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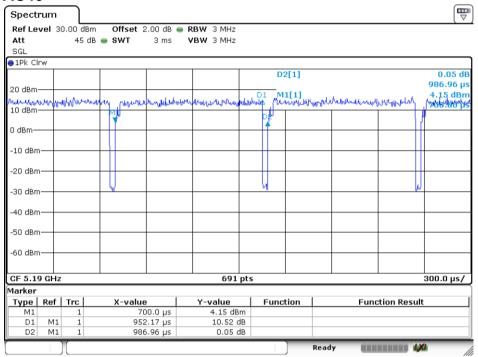
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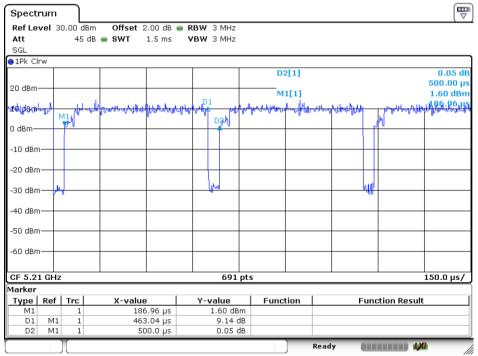
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4.3.1.1.5 11AC40



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4.3.1.1.6 11AC80



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15 Secti	on 15.407(a)		
Test Method:	ANSI C63.10: 2013			
	KDB 789033 D02 v02	2r01, Section E.3.b (Method PM-G).		
Test Setup:		Ton-Conducted Table ound Reference Plane		
Test Instruments:	Refer to section 6 for details			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Through Pre-scan, find that			
	6Mbps of rate is the worst case of 802.11a;			
	MCS0 of rate is the worst case of 802.11n(HT20);			
	MCS0 of rate is the worst case of 802.11n(HT40);			
	MCS0 of rate is the worst case of 802.11ac(HT20);			
	MCS0 of rate is the worst case of 802.11ac(HT40);			
	MCS0 of rate is the worst case of 802.11ac(HT80) Only the worst case is recorded in the report.			
Limit:	Frequency Band	Limit		
	5150-5250MHz	Not exceed 250mW(24dBm)		
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB		
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB		
	5725-5850MHz	Not exceed 1W(30dBm)		
	*Where B is the 26dB emission bandwidth in MHz			
Test Results:	Pass			



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4.4.1 **Test Results for Conducted Output Power**

4.4.1	Test Results for Conducted Output Power					
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
	36	5180	ANT 1	19.27	20.27	PASS
	44	5220	ANT 1	19.65	20.65	PASS
	48	5240	ANT 1	19.61	20.61	PASS
	52	5260	ANT 1	19.55	20.55	PASS
	60	5300	ANT 1	19.77	20.77	PASS
11A20	64	5320	ANT 1	19.96	20.96	PASS
TTAZU	100	5500	ANT 1	19.62	20.62	PASS
	116	5580	ANT 1	19.29	20.29	PASS
	140	5700	ANT 1	19.26	20.26	PASS
	149	5745	ANT 1	15.38	16.38	PASS
	157	5785	ANT 1	15.12	16.12	PASS
	161	5805	ANT 1	15.11	16.11	PASS
	36	5180	ANT 1	18.25	19.25	PASS
	44	5220	ANT 1	18.69	19.69	PASS
	48	5240	ANT 1	18.63	19.63	PASS
	52	5260	ANT 1	18.57	19.57	PASS
	60	5300	ANT 1	18.76	19.76	PASS
11N20	64	5320	ANT 1	19.09	20.09	PASS
1111/20	100	5500	ANT 1	18.78	19.78	PASS
	116	5580	ANT 1	18.59	19.59	PASS
	140	5700	ANT 1	18.61	19.61	PASS
	149	5745	ANT 1	14.67	15.67	PASS
	157	5785	ANT 1	14.35	15.35	PASS
	161	5805	ANT 1	14.11	15.11	PASS
	38	5190	ANT 1	19.05	20.05	PASS
11N40	46	5230	ANT 1	19.33	20.33	PASS
	54	5270	ANT 1	19.21	20.21	PASS
	62	5310	ANT 1	19.46	20.46	PASS



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	102	5510	ANT 1	19.35	20.35	PASS
	110	5550	ANT 1	19.2	20.2	PASS
	134	5670	ANT 1	19.07	20.07	PASS
	151	5755	ANT 1	14.05	15.05	PASS
	159	5795	ANT 1	14.65	15.65	PASS
	36	5180	ANT 1	16.65	17.65	PASS
	44	5220	ANT 1	17.1	18.1	PASS
	48	5240	ANT 1	17.02	18.02	PASS
	52	5260	ANT 1	16.93	17.93	PASS
	60	5300	ANT 1	17.08	18.08	PASS
444.000	64	5320	ANT 1	17.53	18.53	PASS
11AC20	100	5500	ANT 1	17.28	18.28	PASS
	116	5580	ANT 1	16.92	17.92	PASS
	140	5700	ANT 1	17.09	18.09	PASS
	149	5745	ANT 1	13.95	14.95	PASS
	157	5785	ANT 1	13.46	14.46	PASS
	161	5805	ANT 1	13.02	14.02	PASS
	38	5190	ANT 1	15.91	16.91	PASS
	46	5230	ANT 1	16.39	17.39	PASS
	54	5270	ANT 1	16.4	17.4	PASS
	62	5310	ANT 1	16.69	17.69	PASS
11AC40	102	5510	ANT 1	16.68	17.68	PASS
	110	5550	ANT 1	16.46	17.46	PASS
	134	5670	ANT 1	16.54	17.54	PASS
	151	5755	ANT 1	13.48	14.48	PASS
	159	5795	ANT 1	13.88	14.88	PASS
	42	5210	ANT 1	15.91	16.91	PASS
	58	5290	ANT 1	16.3	17.3	PASS
11AC80	106	5530	ANT 1	16.35	17.35	PASS
	122	5610	ANT 1	15.92	16.92	PASS
	155	5775	ANT 1	13.64	14.64	PASS



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4.5 26dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)					
Test Method:	ANSI C63.10: 2013					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Instruments Used:	Refer to section 6 for details					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates					
Final Test Mode:	Through Pre-scan, find the					
	6Mbps of rate is the worst case of 802.11a;					
	MCS0 of rate is the worst case of 802.11n(HT20);					
	MCS0 of rate is the worst case of 802.11n(HT40);					
	MCS0 of rate is the worst case of 802.11ac(HT20);					
	MCS0 of rate is the worst case of 802.11ac(HT40);					
	MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.					
Limit:	No restriction limits					
Test Results:	Pass					



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4.5.1 Test Results for 26dB Emission Bandwidth

4.3.1	est results lo	ZOGD EIIII	Joion Ban		
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
	36	5180	ANT 1	23.04	PASS
	44	5220	ANT 1	22.74	PASS
	48	5240	ANT 1	22.89	PASS
	60	5300	ANT 1	23.25	PASS
11A20	52	5260	ANT 1	22.41	PASS
	64	5320	ANT 1	23.31	PASS
	100	5500	ANT 1	22.74	PASS
	116	5580	ANT 1	22.95	PASS
	140	5700	ANT 1	22.86	PASS
	36	5180	ANT 1	23.55	PASS
	44	5220	ANT 1	23.67	PASS
	48	5240	ANT 1	24.36	PASS
	52	5260	ANT 1	23.22	PASS
11N20	60	5300	ANT 1	23.43	PASS
	64	5320	ANT 1	23.79	PASS
	100	5500	ANT 1	24.84	PASS
	116	5580	ANT 1	23.67	PASS
	140	5700	ANT 1	23.82	PASS
	38	5190	ANT 1	42.3	PASS
	46	5230	ANT 1	41.64	PASS
	54	5270	ANT 1	41.76	PASS
11N40	62	5310	ANT 1	41.88	PASS
	102	5510	ANT 1	41.82	PASS
	110	5550	ANT 1	41.94	PASS
	134	5670	ANT 1	42.3	PASS
	36	5180	ANT 1	23.46	PASS
	44	5220	ANT 1	23.61	PASS
11AC20	48	5240	ANT 1	23.61	PASS
	52	5260	ANT 1	23.49	PASS
	60	5300	ANT 1	23.64	PASS
	64	5320	ANT 1	23.88	PASS
	100	5500	ANT 1	23.28	PASS
	116	5580	ANT 1	23.4	PASS
	140	5700	ANT 1	23.22	PASS
11AC40	38	5190	ANT 1	42.18	PASS
114040	46	5230	ANT 1	41.46	PASS



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	54	5270	ANT 1	41.58	PASS
	62	5310	ANT 1	41.88	PASS
	102	5510	ANT 1	41.46	PASS
	110	5550	ANT 1	41.7	PASS
	134	5670	ANT 1	41.64	PASS
11AC80	42	5210	ANT 1	83.04	PASS
	58	5290	ANT 1	89.92	PASS
	106	5530	ANT 1	96.48	PASS
	122	5610	ANT 1	87.04	PASS



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4.5.2 Plots for 26dB Emission Bandwidth



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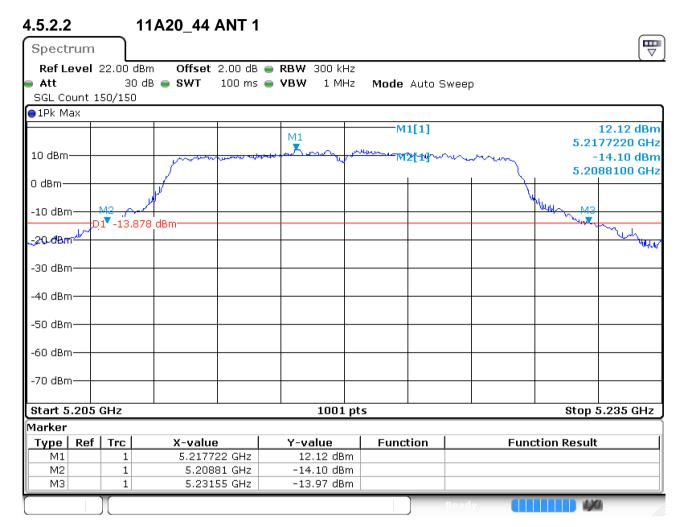
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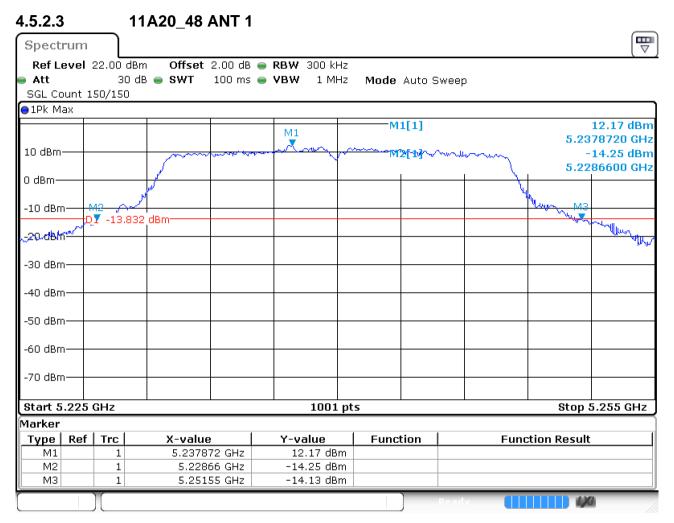


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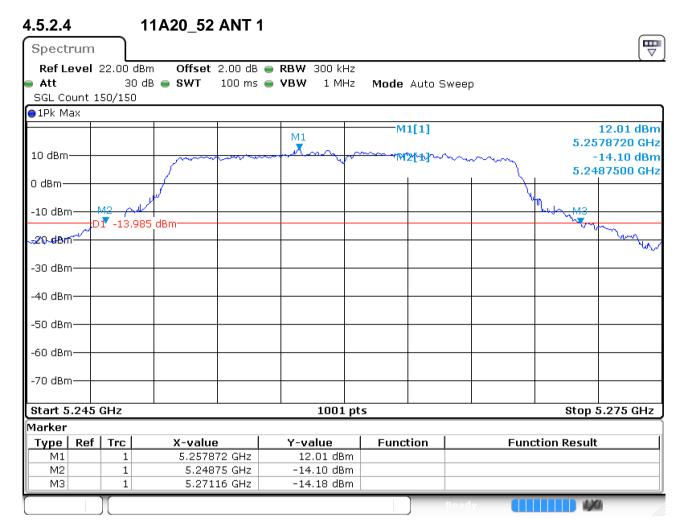
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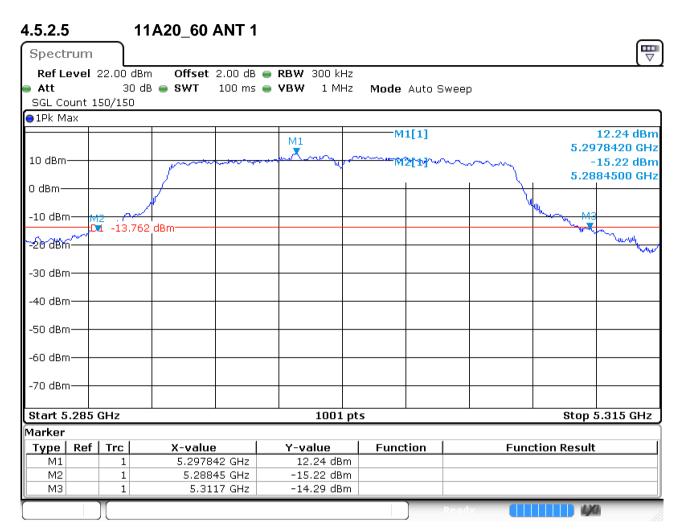
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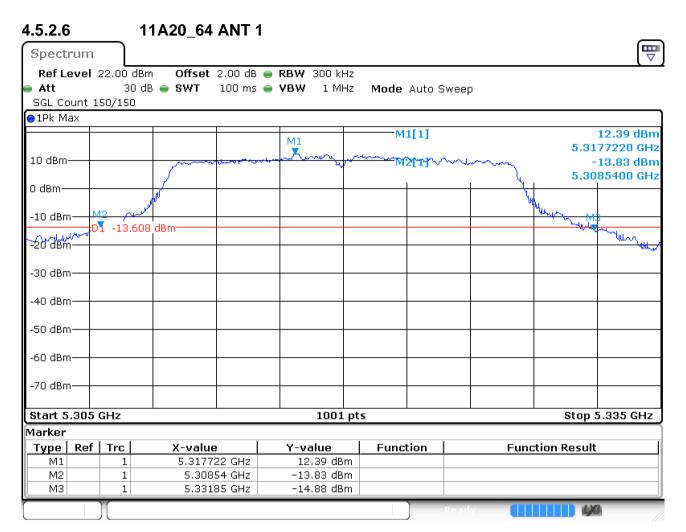
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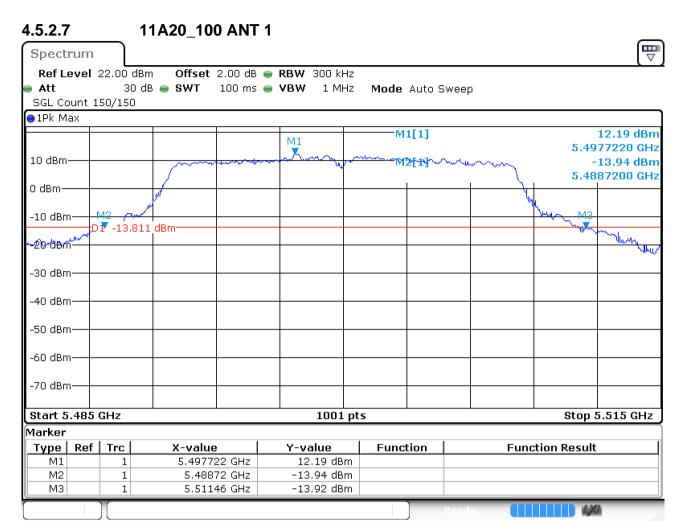
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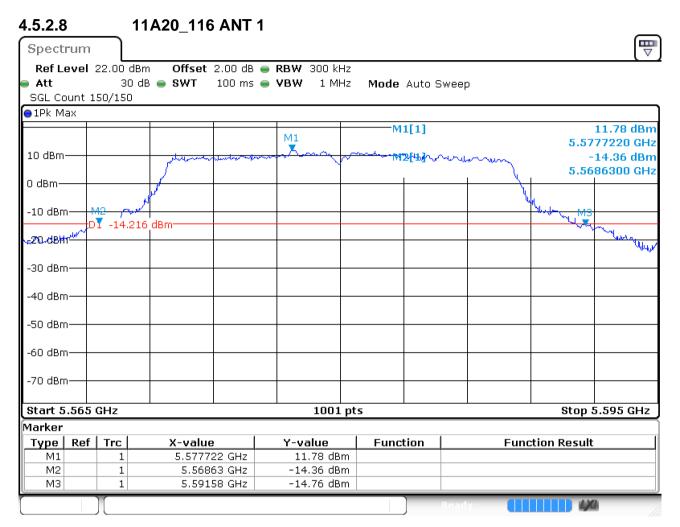
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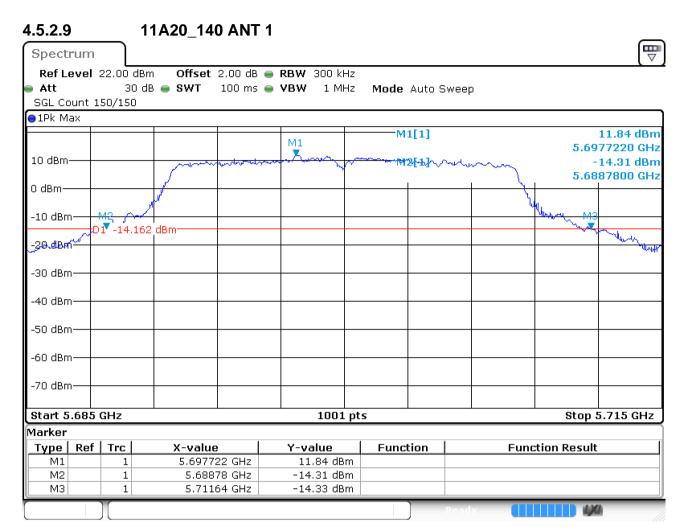
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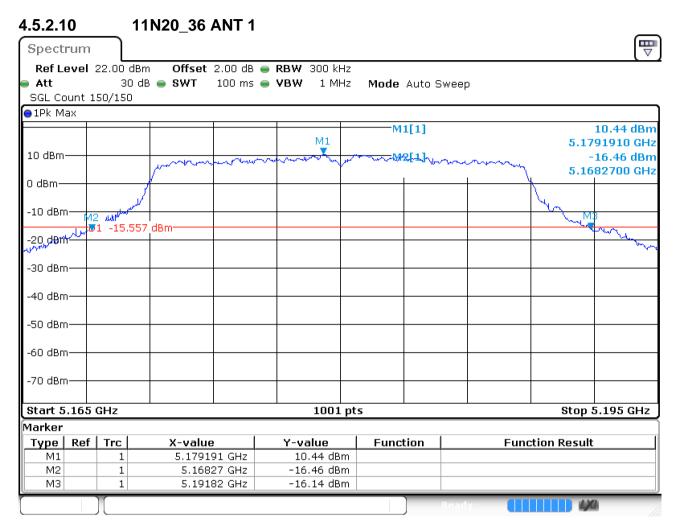
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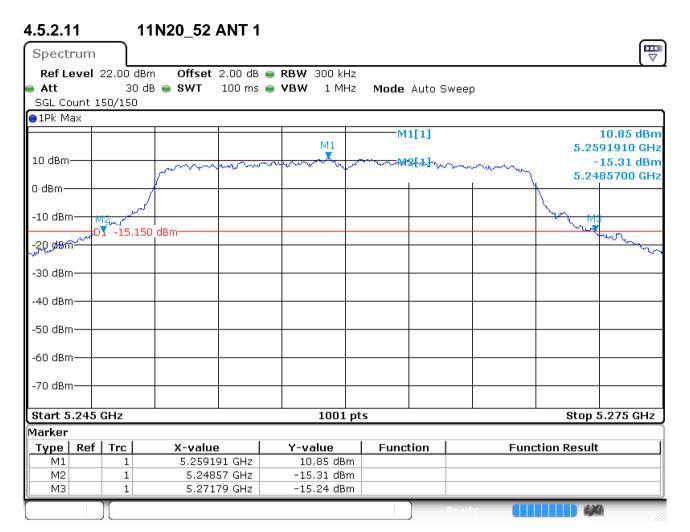
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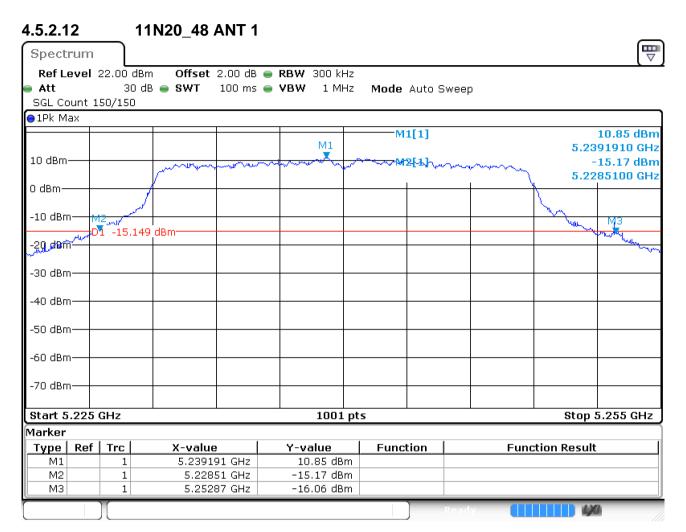
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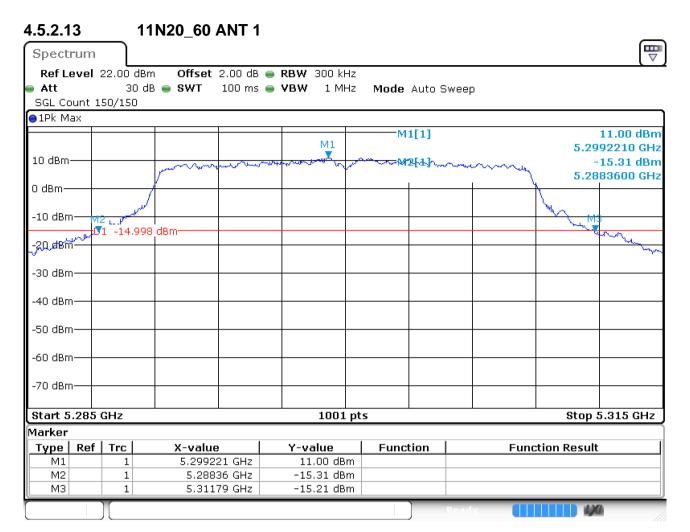
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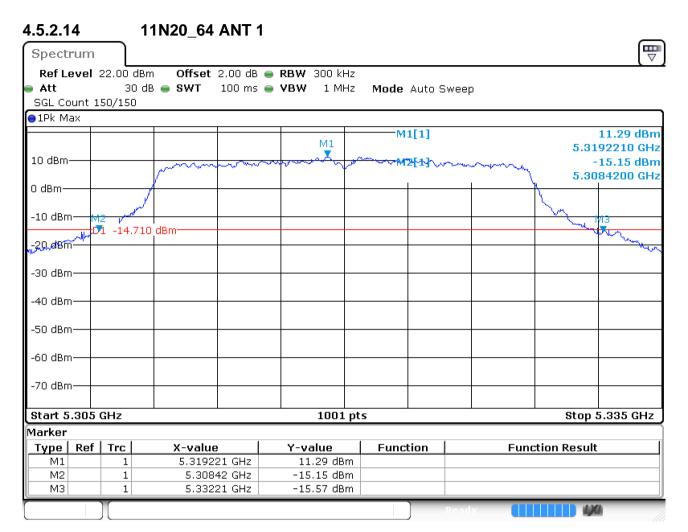
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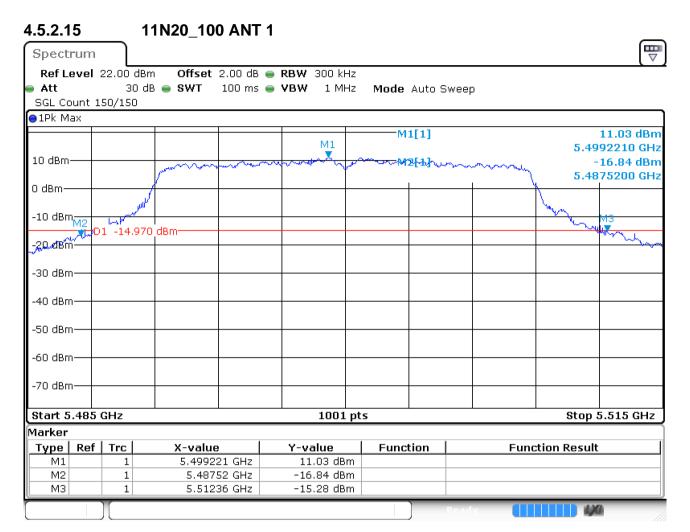
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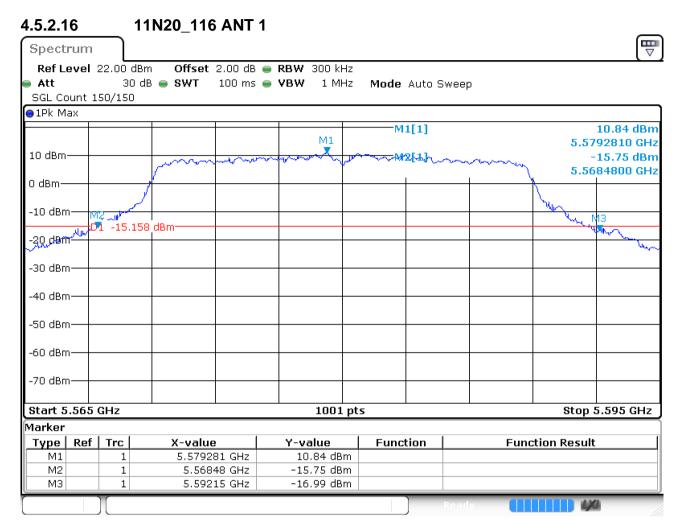
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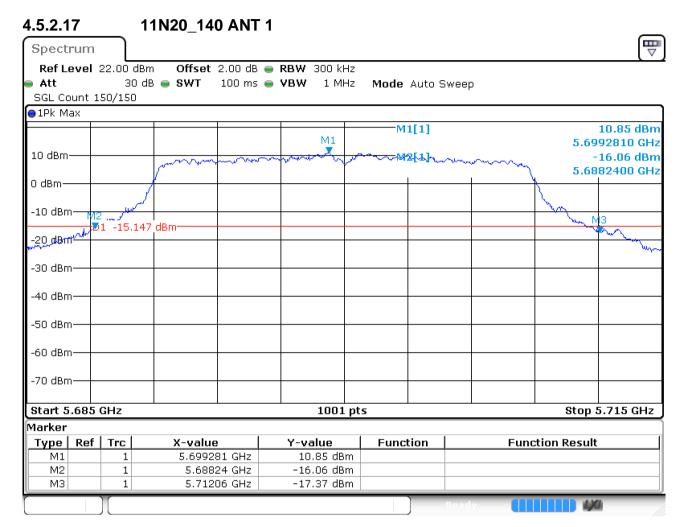
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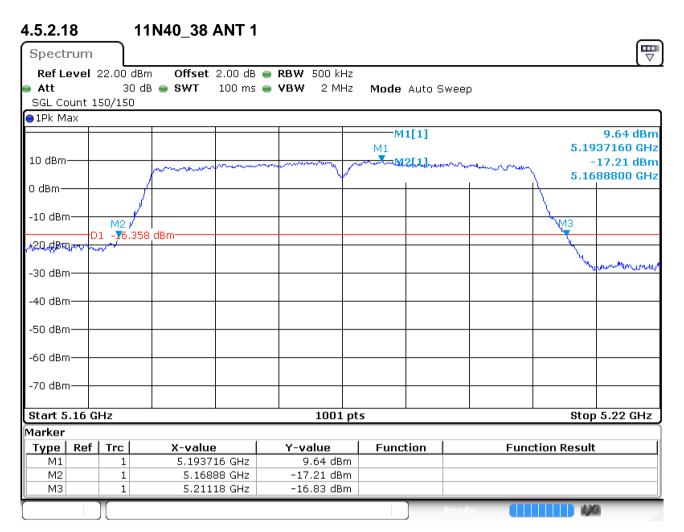
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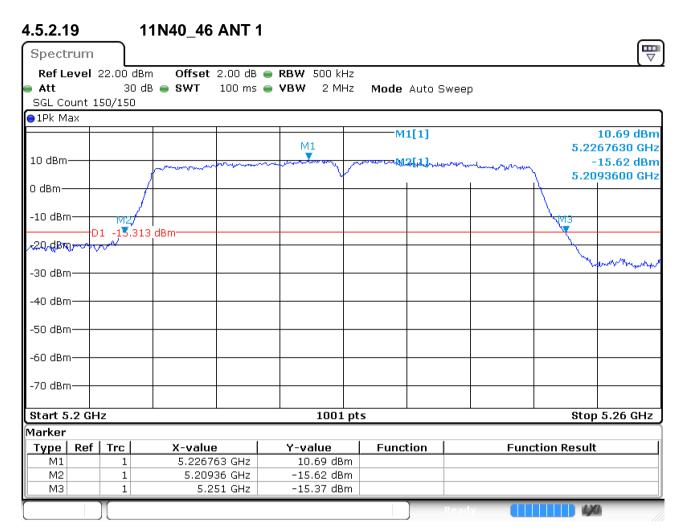
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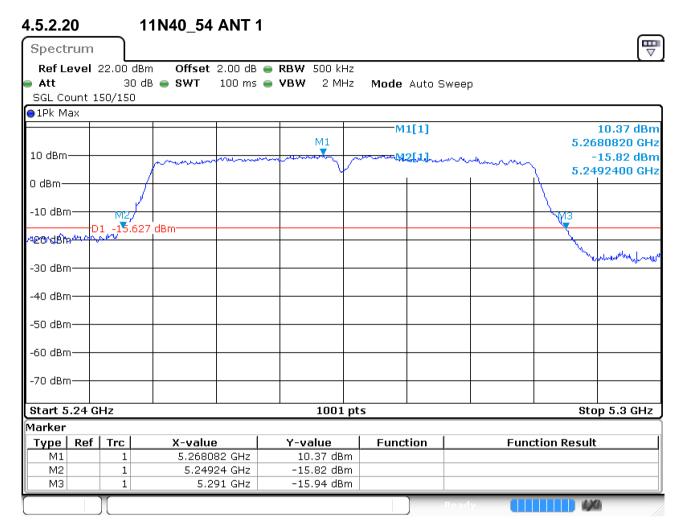
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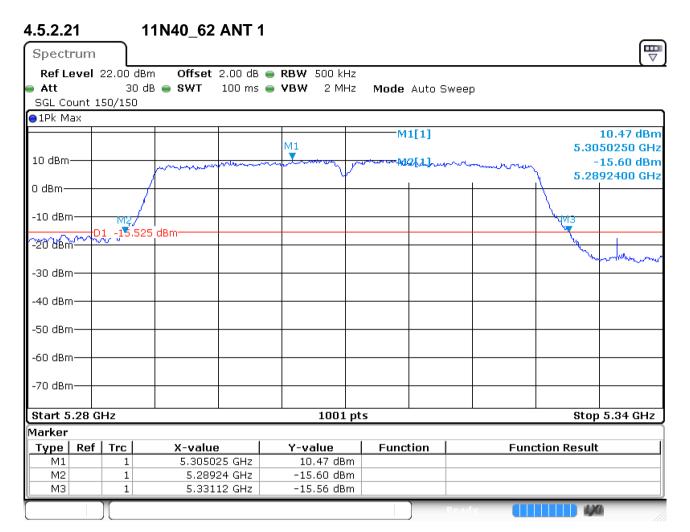
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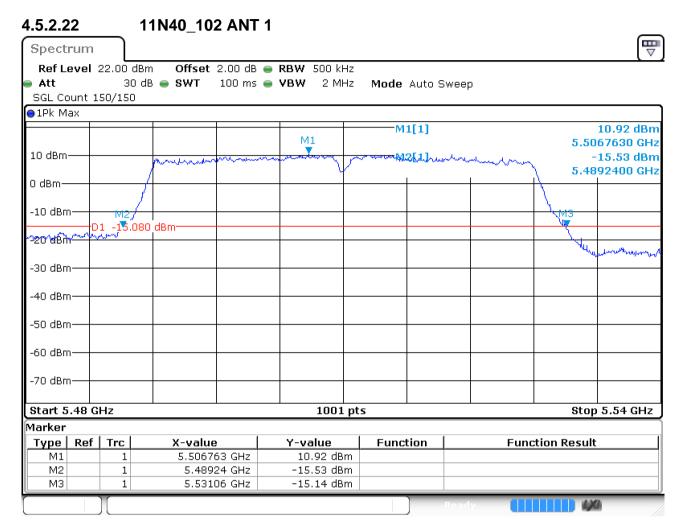
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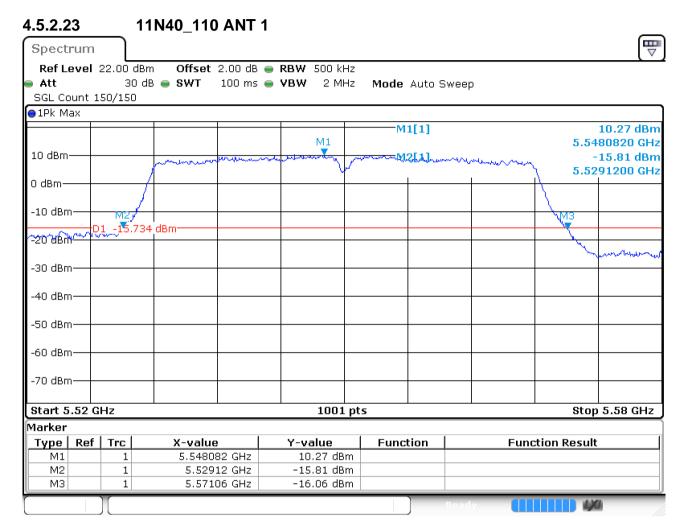
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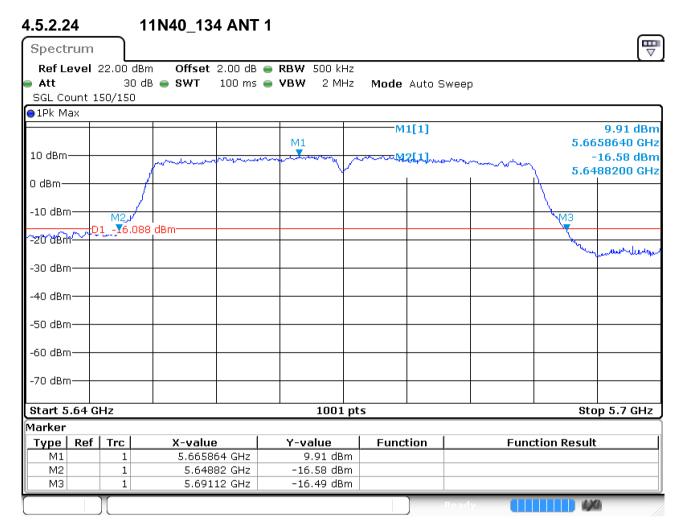
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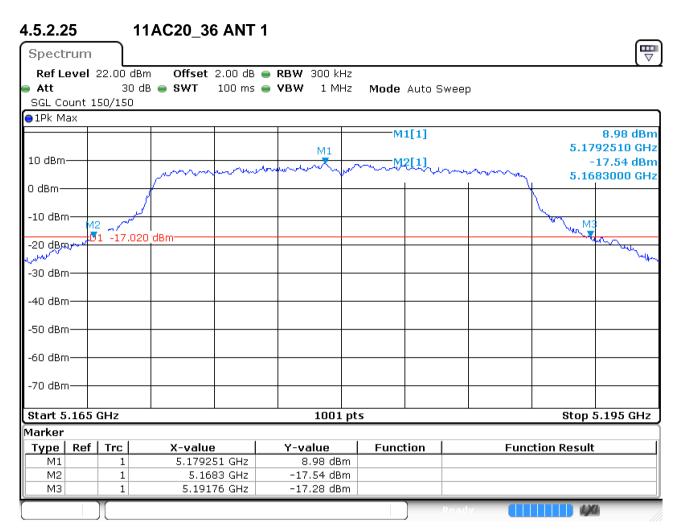
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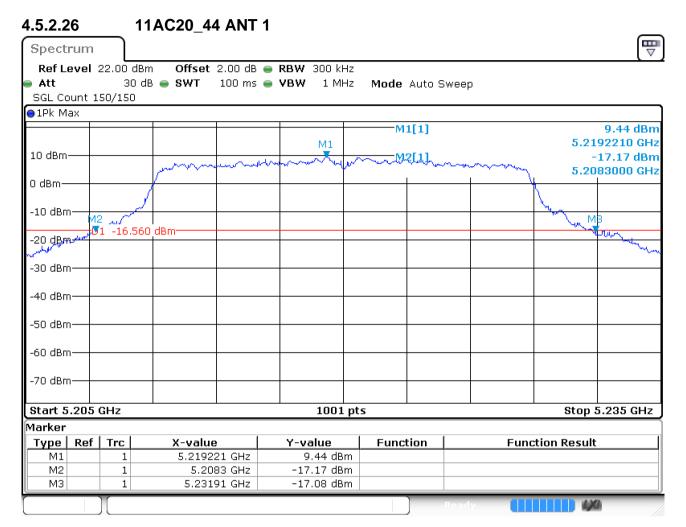
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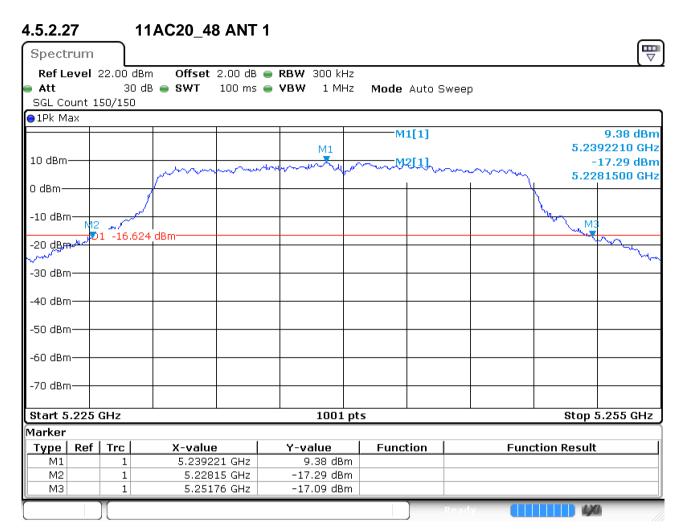
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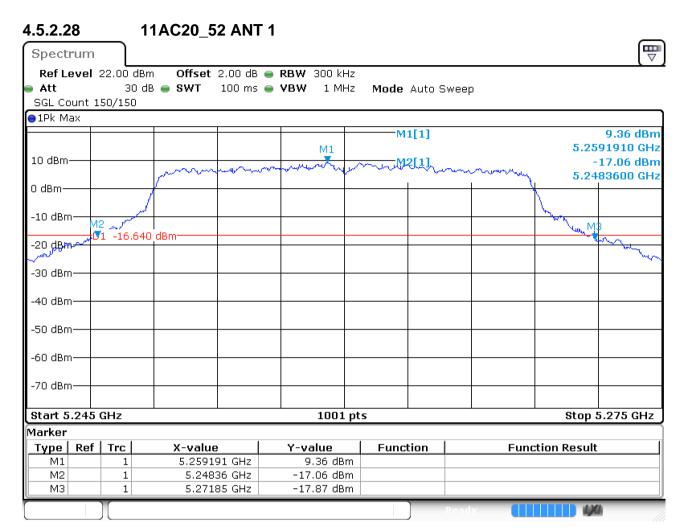
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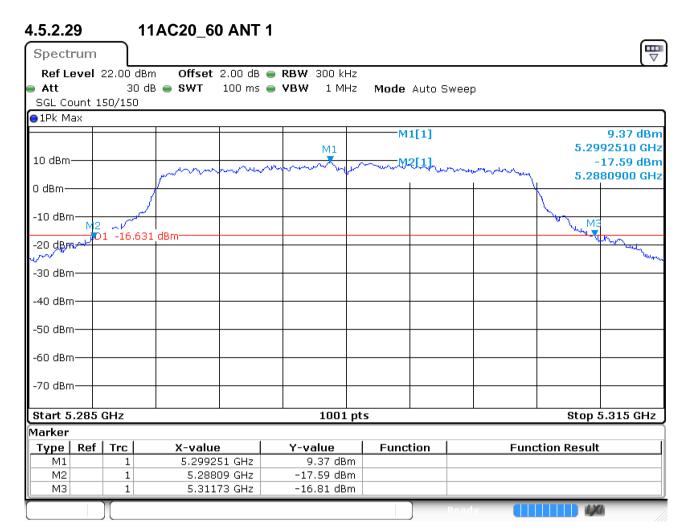
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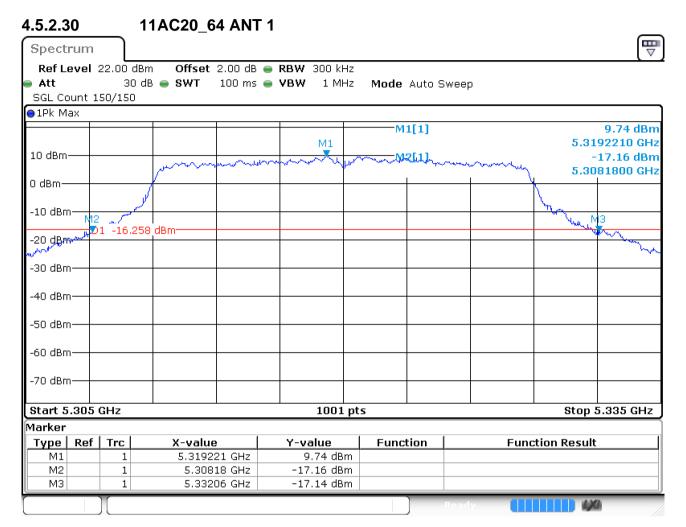
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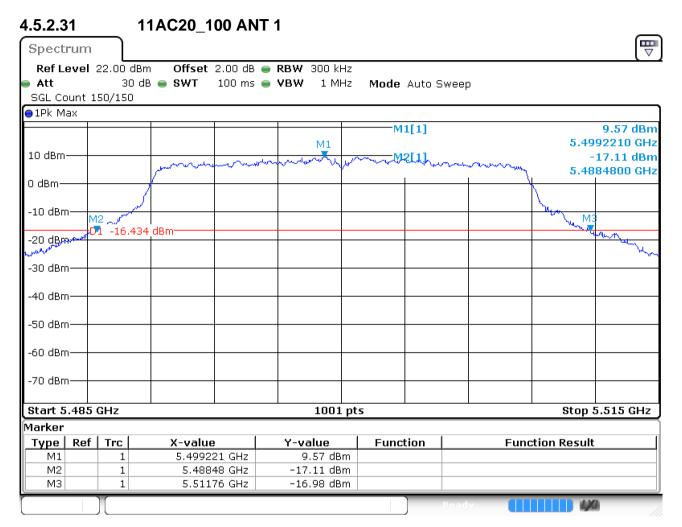
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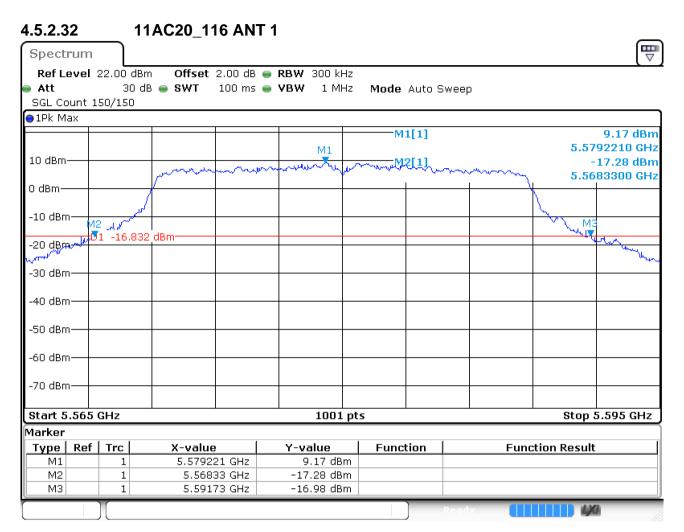
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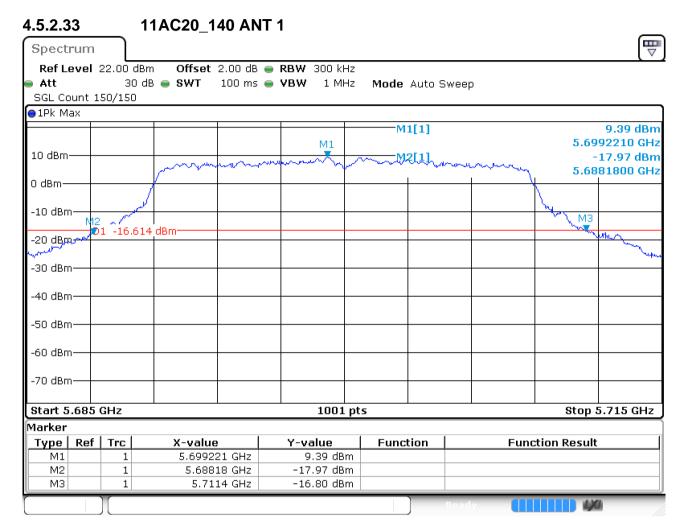
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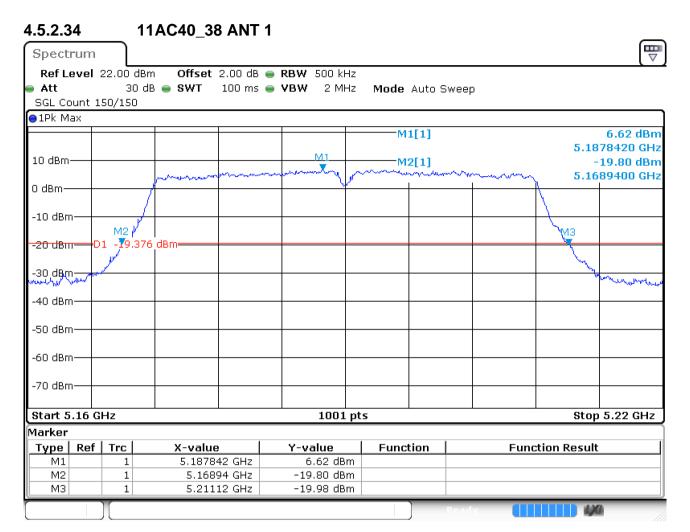
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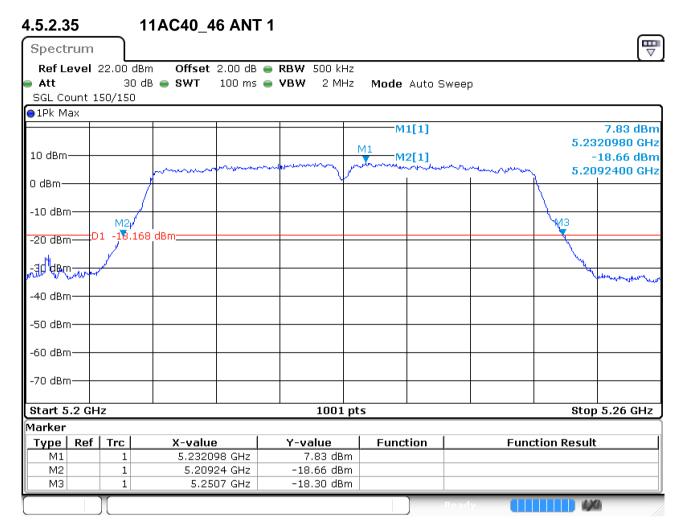
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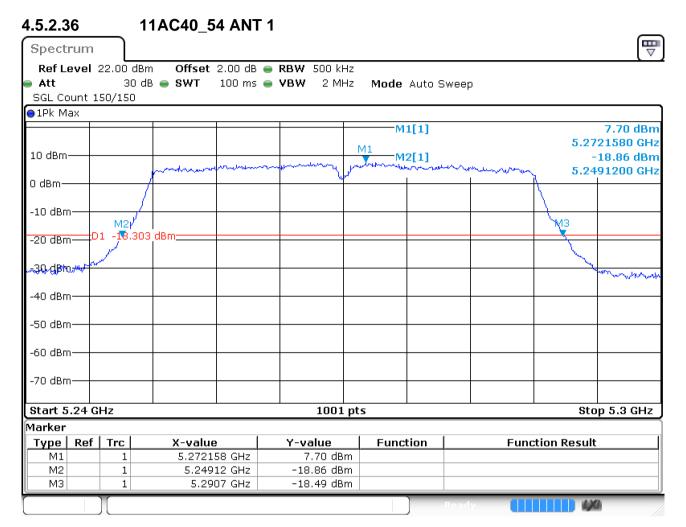
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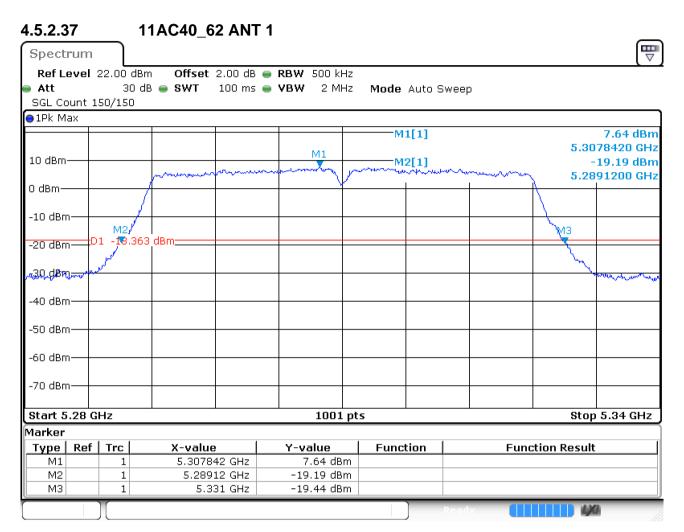
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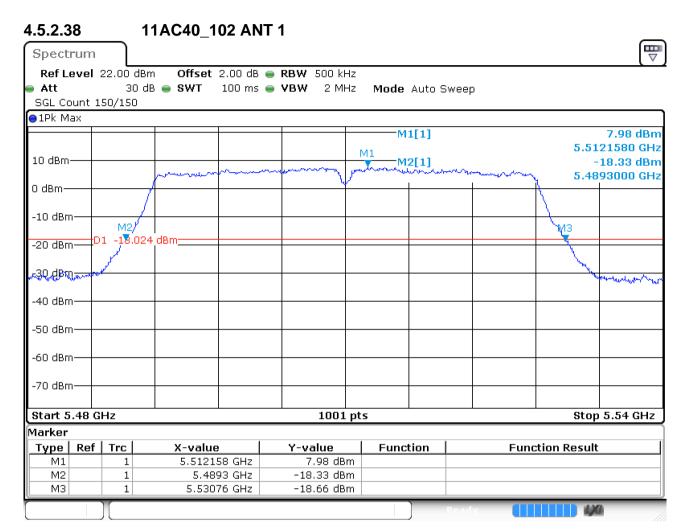
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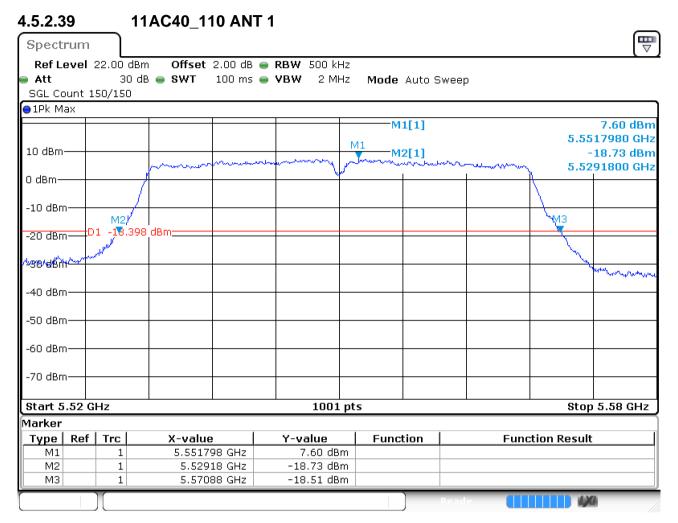
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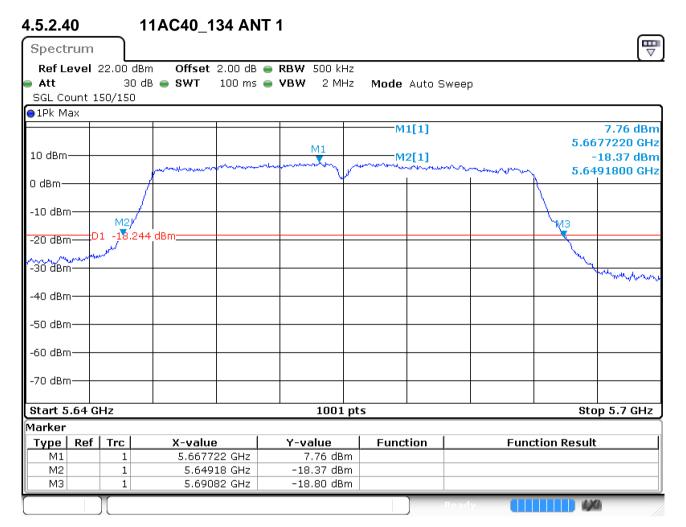
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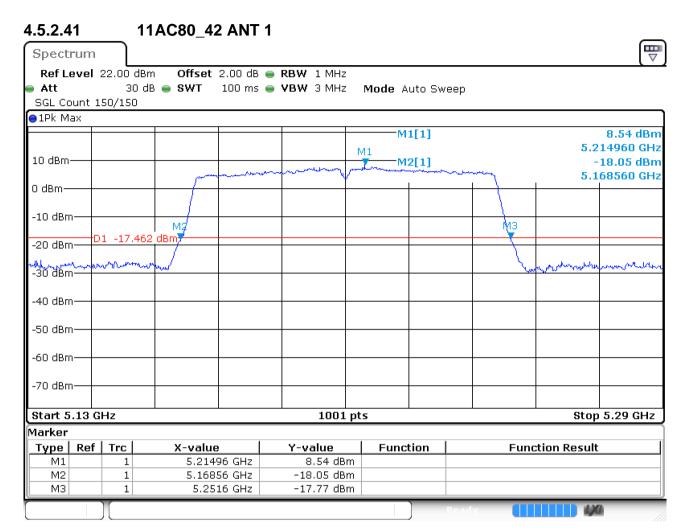
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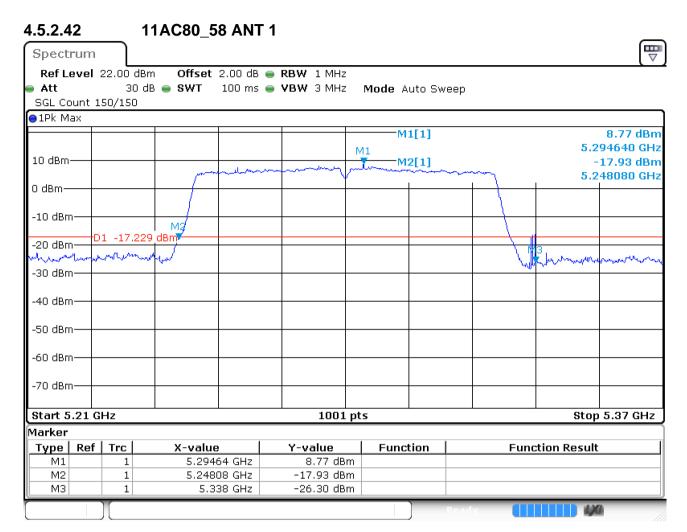
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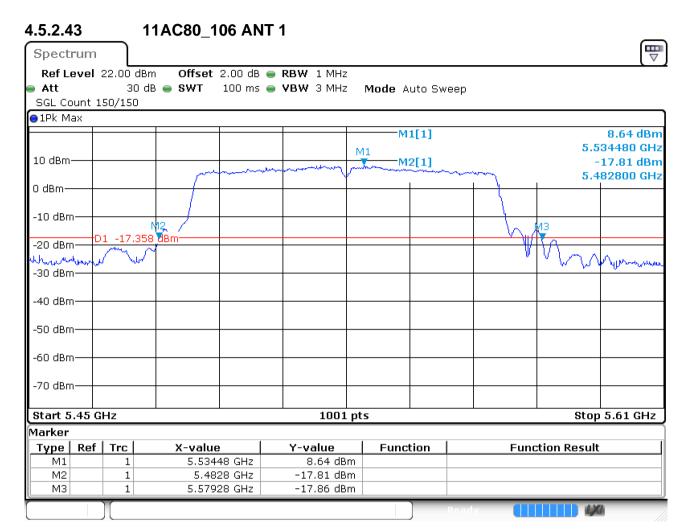
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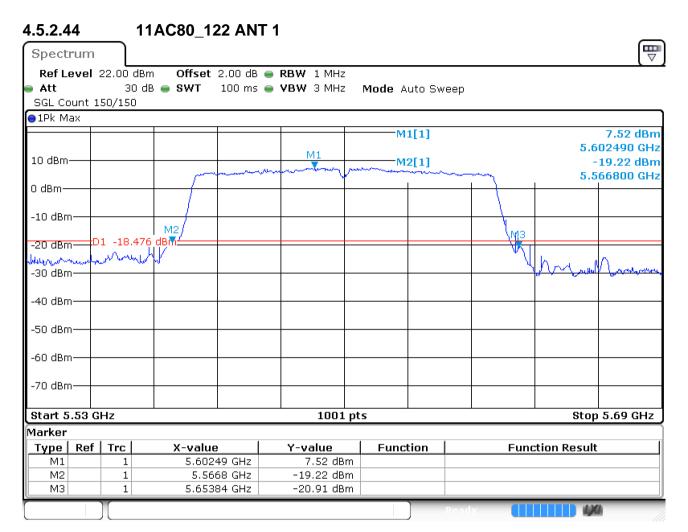
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4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)				
Test Method:	ANSI C63.10: 2013				
Test Setup:	No	E.U.T on-Conducted Table			
Test Instruments:	Refer to section 6 for details				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.				
Limit:	Frequency Band 5725-5850MHz	Limit At lease 500kHz			
Test Results:	Pass Pass				



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Test Results for 6dB Emission Bandwidth 4.6.1

Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	15.42	PASS
	157	5785	ANT 1	15.51	PASS
	161	5805	ANT 1	15.39	PASS
11N20	149	5745	ANT 1	16.02	PASS
	157	5745	ANT 1	16.02	PASS
	161	5805	ANT 1	16.02	PASS
11N40	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.28	PASS
11AC20	149	5745	ANT 1	16.59	PASS
	149	5785	ANT 1	15.51	PASS
	161	5805	ANT 1	16.02	PASS
11AC40	151	5755	ANT 1	35.28	PASS
	159	5795	ANT 1	35.64	PASS
11AC80	155	5775	ANT 1	75.68	PASS



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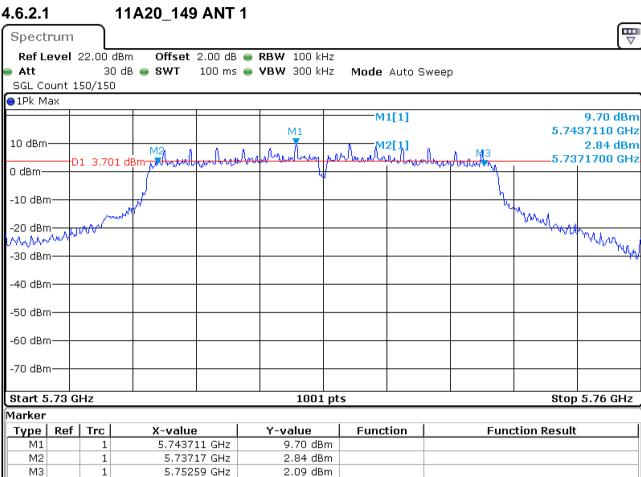
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4.6.2 Plots for 6dB Emission Bandwidth



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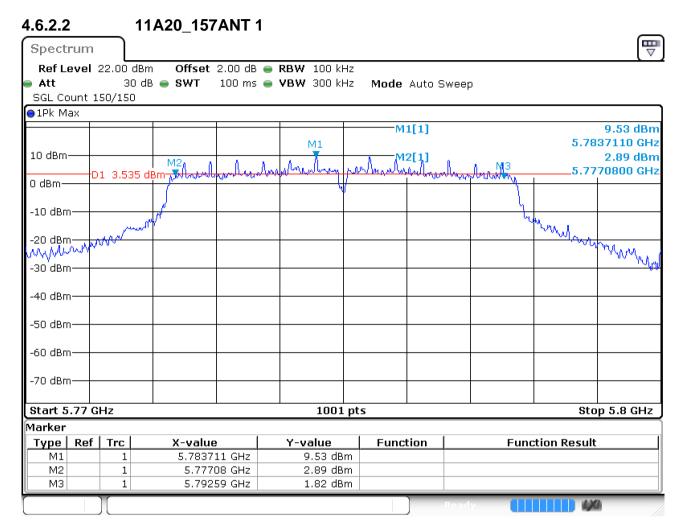
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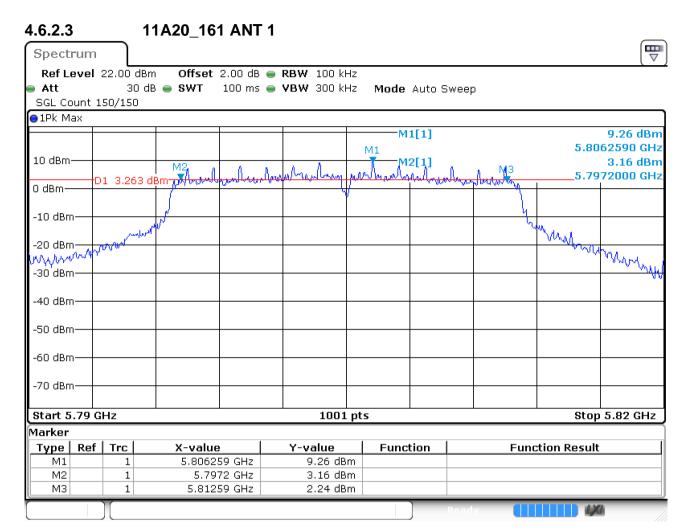
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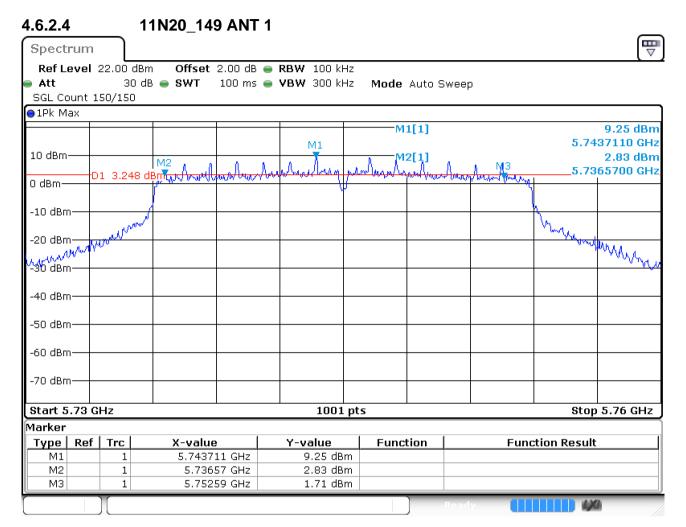
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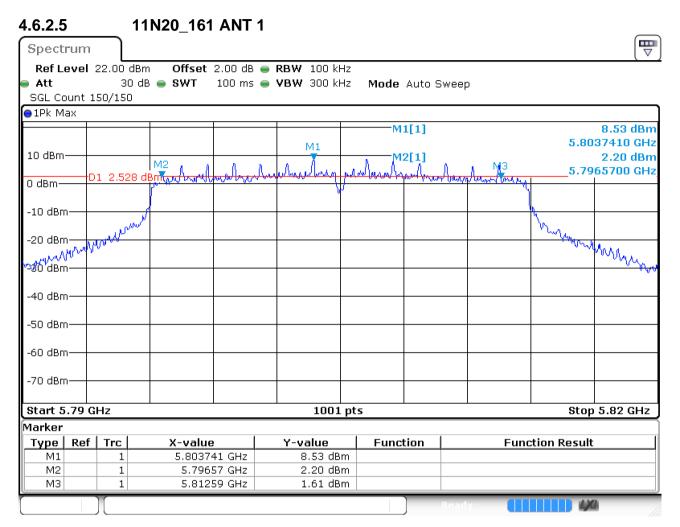
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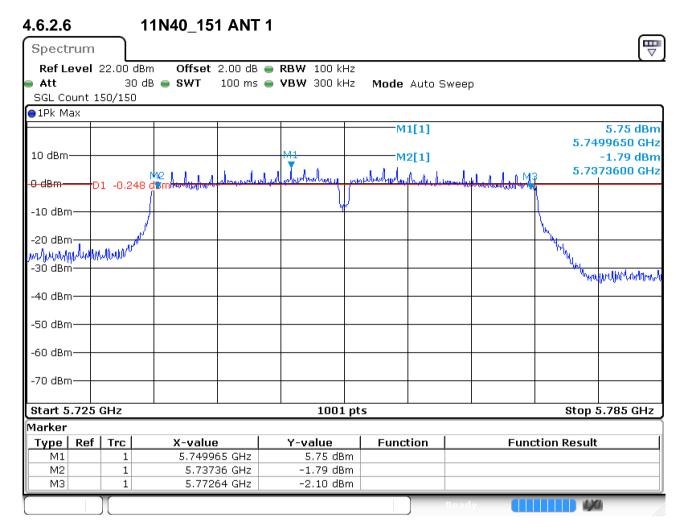
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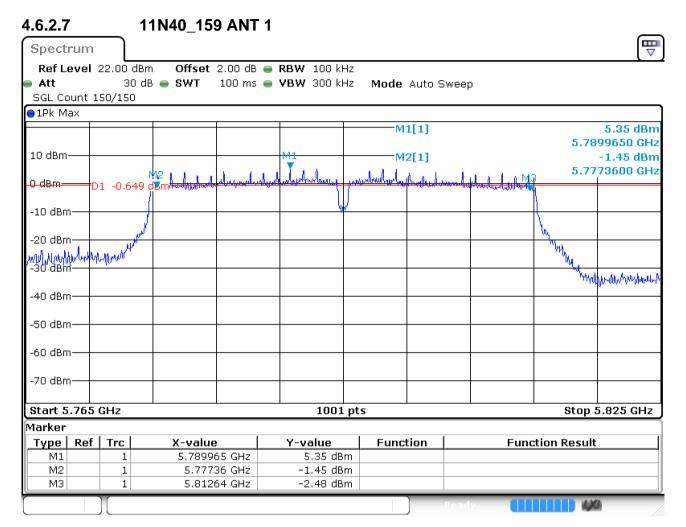
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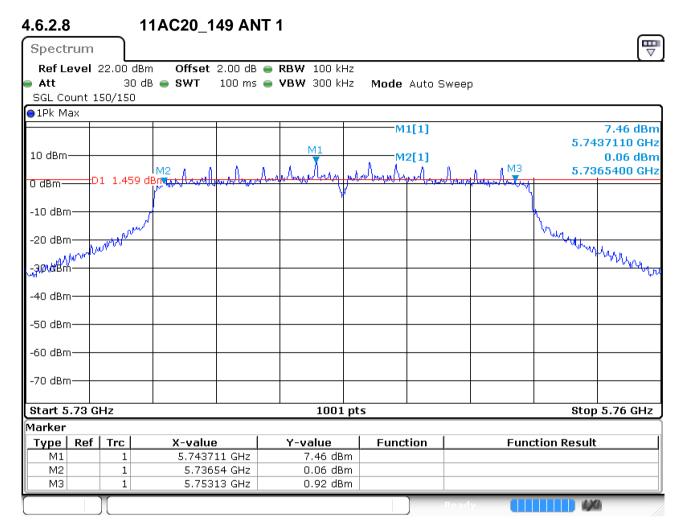
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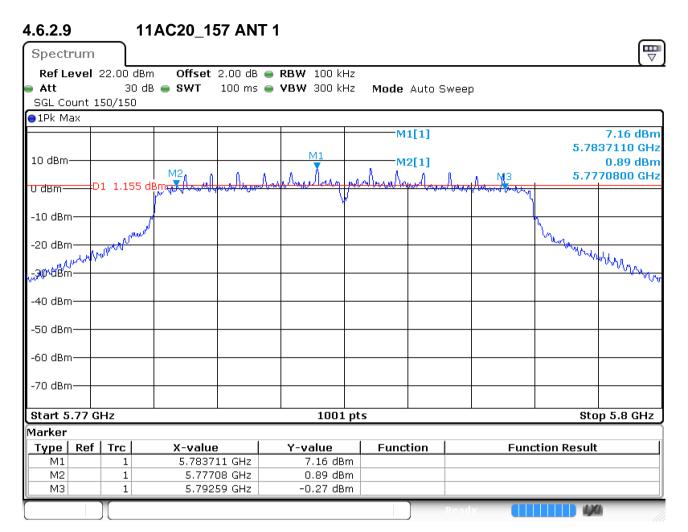
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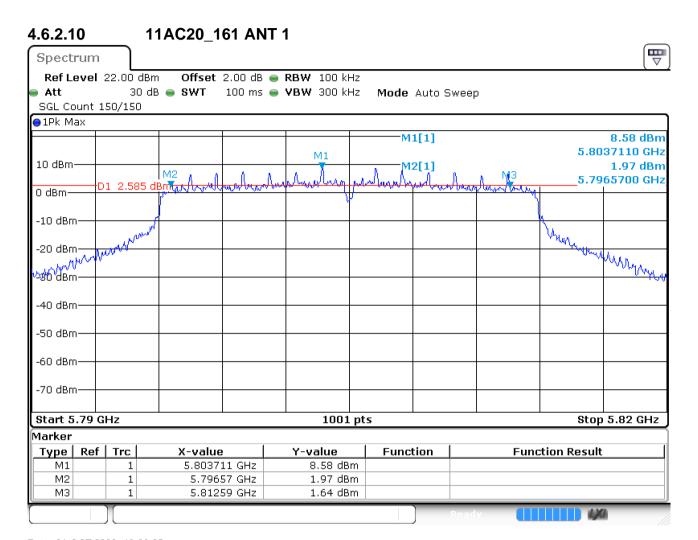
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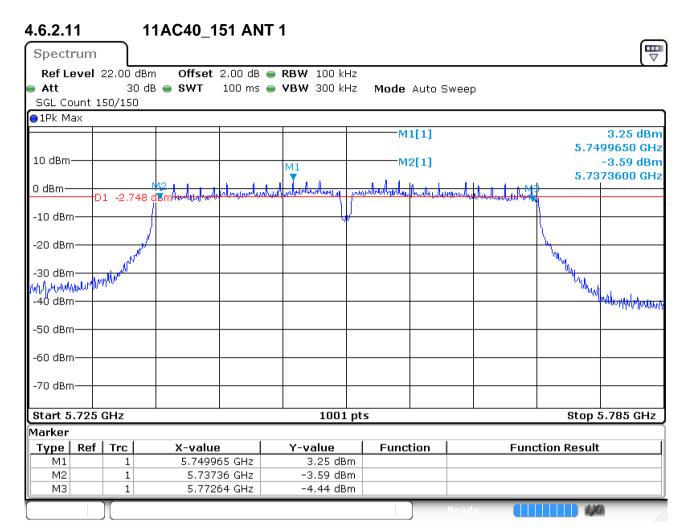
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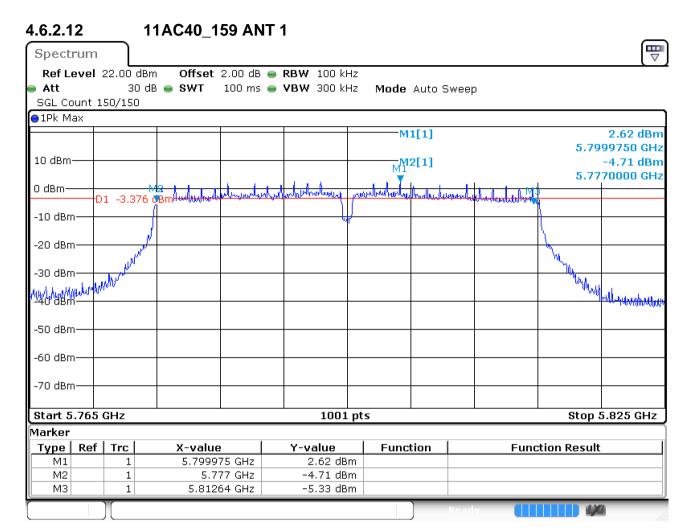
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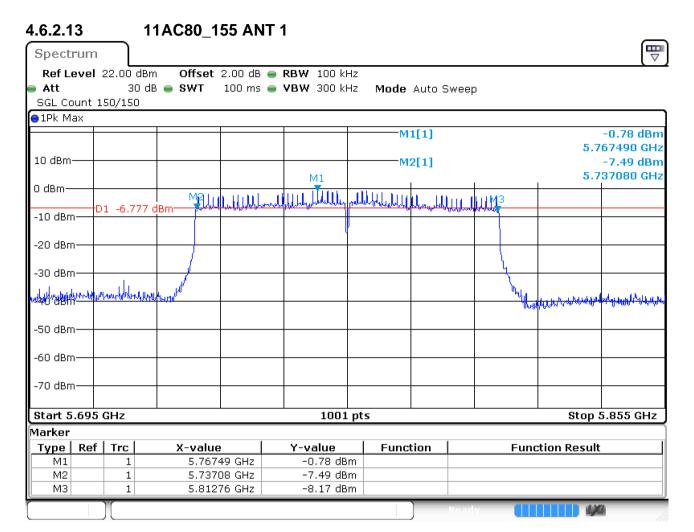
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4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)					
Test Method:	ANSI C63.10: 2013					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6 for details					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates					
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.					
Limit:	Frequency Band 5725-5850MHz	Limit At lease 500kHz				
Test Results:	Pass At lease 500kHz					



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4.7.1 Test Results for 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
	36	5180	ANT 1	16.7832	PASS
	44	5220	ANT 1	16.7532	PASS
	48	5240	ANT 1	16.7832	PASS
	52	5260	ANT 1	16.7532	PASS
	60	5300	ANT 1	16.7532	PASS
	64	5320	ANT 1	16.7233	PASS
11A20	100	5500	ANT 1	16.7532	PASS
	116	5580	ANT 1	16.7532	PASS
	140	5700	ANT 1	16.7832	PASS
	149	5745	ANT 1	16.7532	PASS
	157	5785	ANT 1	16.7532	PASS
	161	5805	ANT 1	16.7532	PASS
	36	5180	ANT 1	17.8921	PASS
	44	5220	ANT 1	17.9221	PASS
11N20	48	5240	ANT 1	17.9221	PASS
	52	5260	ANT 1	17.8921	PASS
	60	5300	ANT 1	17.8921	PASS
	64	5320	ANT 1	17.8921	PASS
	100	5500	ANT 1	17.9221	PASS
	116	5580	ANT 1	17.8921	PASS
	140	5700	ANT 1	17.8921	PASS
	149	5745	ANT 1	17.8621	PASS
	157	5785	ANT 1	17.8921	PASS
	161	5805	ANT 1	17.8921	PASS
11N40	38	5190	ANT 1	36.3237	PASS
	46	5230	ANT 1	36.3237	PASS
	54	5270	ANT 1	36.3237	PASS
	62	5310	ANT 1	36.3836	PASS
	102	5510	ANT 1	36.3836	PASS
	110	5550	ANT 1	36.3836	PASS
	134	5670	ANT 1	36.3836	PASS
	151	5755	ANT 1	36.3836	PASS
	159	5795	ANT 1	36.3836	PASS
11AC20	36	5180	ANT 1	17.9221	PASS
	44	5220	ANT 1	17.9221	PASS



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	48	5240	ANT 1	17.8921	PASS
	52	5260	ANT 1	17.9221	PASS
	60	5300	ANT 1	17.9221	PASS
	64	5320	ANT 1	17.8921	PASS
	100	5500	ANT 1	17.8921	PASS
	116	5580	ANT 1	17.8921	PASS
	140	5700	ANT 1	17.8621	PASS
	149	5745	ANT 1	17.8921	PASS
	157	5785	ANT 1	17.8921	PASS
	161	5805	ANT 1	17.8621	PASS
	38	5190	ANT 1	36.3836	PASS
	46	5230	ANT 1	36.3237	PASS
	54	5270	ANT 1	36.3237	PASS
	62	5310	ANT 1	36.3237	PASS
11AC40	102	5510	ANT 1	36.3237	PASS
	110	5550	ANT 1	36.3237	PASS
	134	5670	ANT 1	36.3836	PASS
	151	5755	ANT 1	36.3836	PASS
	159	5795	ANT 1	36.3237	PASS
11AC80	42	5210	ANT 1	75.6444	PASS
	58	5290	ANT 1	75.7642	PASS
	106	5530	ANT 1	75.7642	PASS
	122	5610	ANT 1	75.8841	PASS
	155	5775	ANT 1	75.7642	PASS



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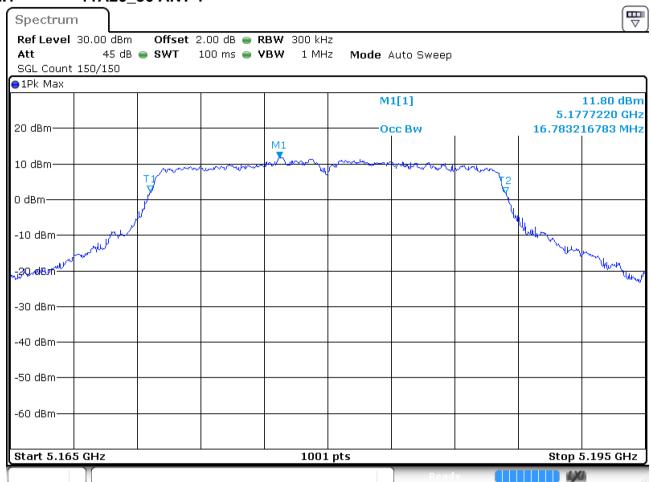


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4.7.2 Plots for 99% Occupied Bandwidth

4.7.2.1 11A20 36 ANT 1



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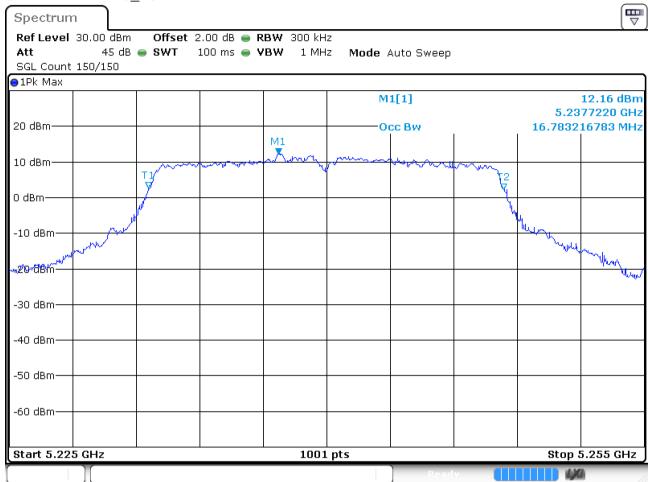
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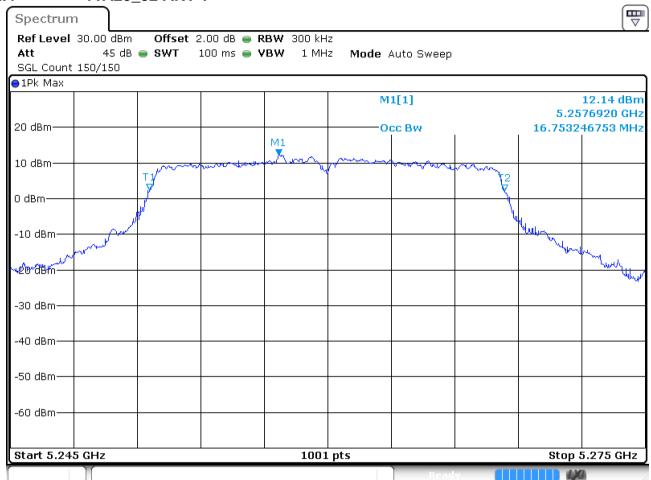
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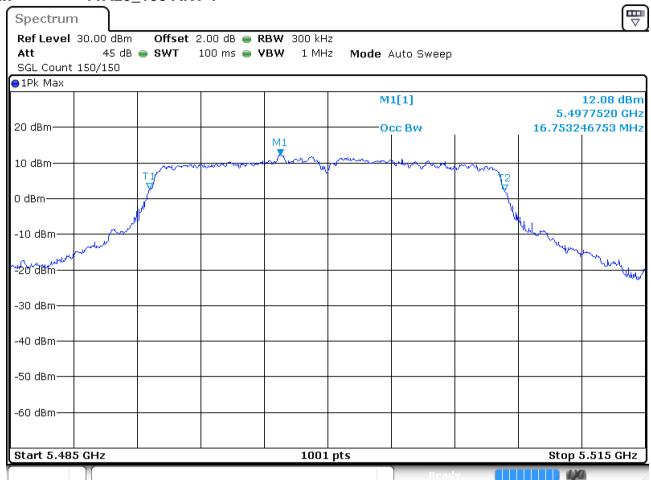
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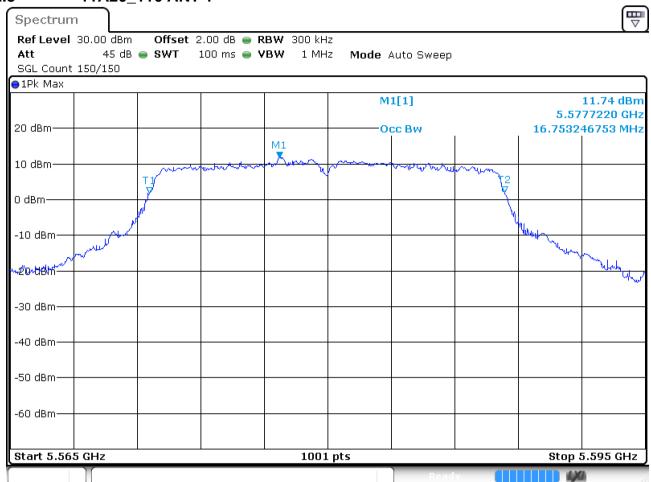
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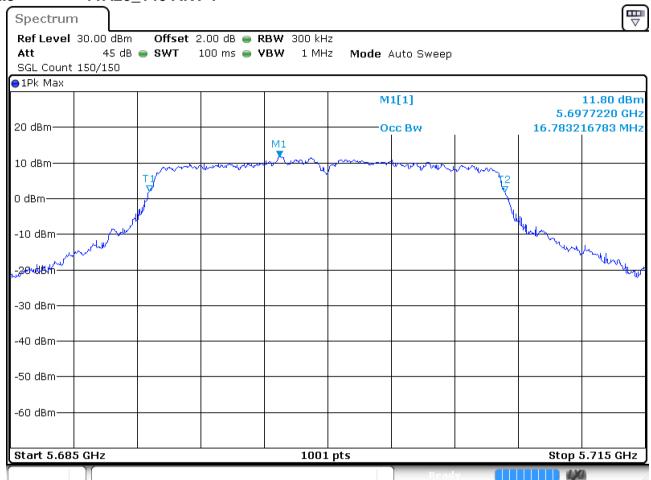
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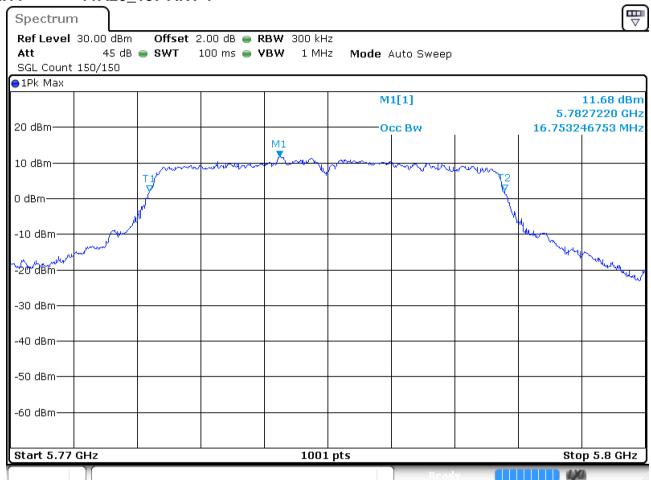
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