

Report No.: ZR/2020/7000805

Page: 1 of 490

FCC TEST REPORT

Application No: ZR/2020/70008

Applicant: OnePlus Technology (shenzhen) Co., Ltd.

Address of Applicant: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe

Avenue North, Futian District, Shenzhen, China.

Manufacturer: OnePlus Technology (shenzhen) Co., Ltd.

Address of Manufacturer 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe

Avenue North, Futian District, Shenzhen, China.

EUT Description: Smart Phone

Model No.: BE2011, BE2012, BE2015

Trade Mark: ONEPLUS 2ABZ2-EF164

47 CFR FCC Part 15, 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 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: 2020/8/10

Date of Test: 2020/8/10 to 2020/10/15

Date of Issue: 2020/10/15

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		2020/10/15		Original

Authorized for issue by:		
Tested By	(Mike Hu) /Project Engineer	
Checked By	Dand Chen (David Chen) /Reviewer	



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2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
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)	5.403(i) 5.407(a)(2)		Pass
	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 4.5	
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) 15.407(a)(2)	FCC < 250mW (avg during transmission) <min{250mw,11dbm+10*lg(ebw)}< td=""><td></td><td></td></min{250mw,11dbm+10*lg(ebw)}<>		
Maximum Conducted	5250-5350	15.407(a)(4)	(avg during transmission)	Clause	
Output Power	5470-5725	15.407(a)(2) 15.407(a)(4)	<min{250mw,11dbm+10*lg(ebw)} (avg="" during="" td="" transmission)<=""><td>4.3</td><td rowspan="2">Pass</td></min{250mw,11dbm+10*lg(ebw)}>	4.3	Pass
	5725-5850	15.407(a)(3)	< 1W (avg during transmission)		
	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	
Spectral Density	5470-5725	15.407(a)(2) 15.407(a)(4)	<11dBm/MHz (avg during transmission)	4.6	
	5725-5850	15.407(a)(3) 15.407(a)(4)	<30dBm/500KHz (avg during transmission)		
Unwanted Emissions that	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	Doco
fall Outside of the Restricted 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. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	4.7	Pass



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
	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 &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 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		Clause 4.8	Pass
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207		Clause 4.2	Pass
Frequency Stability	5150-5250 5250-5350 5470-5600 5650-5725 5725-5850	15.209		Clause 4.9	Pass
Dynamic Frequency Selection	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Channel Move Time: 10 Seconds Transmission Time: milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.	Clause 4.10	Pass



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
			Non-occupancy period: Minimum 30 minutes		



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3 General Information

3.1 Client Information

Applicant:	OnePlus Technology (shenzhen) Co., Ltd.
Address of Applicant:	18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China.
Manufacturer:	OnePlus Technology (shenzhen) Co., Ltd.
Address of Manufacturer:	18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China.

3.2 Test Location

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

3.3 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

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

VCCI

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

• FCC -Designation Number: CN1178

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

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

• Industry Canada (IC)

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



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3.4 General Description of EUT

EUT Description:	Smart Phone		
Model No.:	BE2011, BE2012, BE2015		
Trade Mark:	ONEPLUS		
Hardware Version:	44		
Software Version:	10.5.5.BE82CB		
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 5850MHz		
Type of Modulation:	OFDM		
DFS mode:	☐Master ☐ Slave with radar detection ☐Slave without radar detection		
Sample Type:	⊠ Portable Device,		
Antenna Type:	☐ External, ☑ Integrated		
Antenna Ports			
Smart System	☑ SISO (for 802.11a/n/ac),☐ MIMO (for 802.11n/ac),☐ Diversity (for 802.11a) : Tx & Rx		
Antenna Gain:	-1.1dBi,		
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:

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 a /a a 40 MI I -	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 802.11n/ac 40MHz	The Lowest channel	5270
1EEE 602.1111/ac 401/111/2	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
IEEE OUZ. I TAC BUIVINZ	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	5825
IEEE 802.11n/ac 40MHz	The Lowest channel	5755
	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775



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The mobile phone BE2012 and BE2015 and BE2011 are GSM/CDMA/WCDMA/LTE mobile phone. The differences between BE2012 and BE2015 and BE2011 are showed in the following table. They only have different model name, other parts of the mobile phone are the same, including Chipsets, the appearance,

Bluetooth mode, Wifi mode, Adapter, Battery, and so on.

Bluetooth mode, Wifi mode, Ad	apter, Battery, and so o	п.	
Model name	BE2012	BE2011	BE2015
Туре	Object of reference	New model	New model
GSM bands	/	The same	The same
WCDMA bands	/	The same	The same
LTE bands	/	The same	The same
SIM card	/	The same	The same
External camera	/	The same	The same
Internal camera	/	The same	The same
FLASH	/	The same	The same
Mainboard	/	The same	The same
PCB layout	/	The same	The same
Appearance	/	The same	The same
Bluetooth mode	/	The same	The same
WLAN mode	/	The same	The same
BT/ WLAN antenna	/	The same	The same
GSM/ WCDMA /LTE antenna	/	The same	The same
Adapter	/	The same	The same
Battery	/	The same	The same
Chipset	/	The same	The same
Memory	/	The same	The same
RF Parameter	/	The same	The same
Dimension	/	The same	The same

Note:

Model No.: BE2011, BE2012, BE2015.

Only the BE2012 was tested, since they only have different model name, other parts of the mobile phone are the same, including Chipsets, the appearance, Bluetooth mode, Wi-Fi mode, Adapter, Battery, and so on.



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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					
-1.1dBi.					

4.2 Conducted Emissions

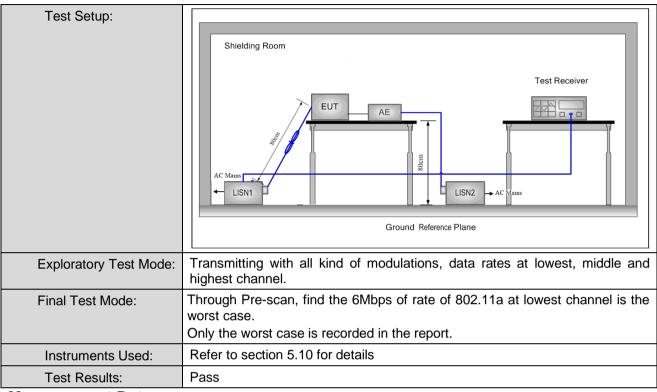
Test Requirement:	47 CFR Part 15 Section 15.407(b)				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Fragues of range (MIII-)	Limit (dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the loga	rithm of the frequency.			
Test Procedure:	 The mains terminal diroom. The EUT was connected Impedance Stabilization impedance. The power connected to a second plane in the same way multiple socket outlet a single LISN provided the single	ed to AC power source throm Network) which provides a cables of all other units of LISN 2, which was bonder as the LISN 1 for the unit learn was used to connect make rating of the LISN was no placed upon a non-metalling. And for floor-standing are all ground reference plane, downward with a vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m from the vertical ground reference ground reference plane. The points of the LISN 1 and the end equipment was at least 0 to the conducted measurement.	ough a LISN 1 (Line a 50Ω/50μH + 5Ω linear if the EUT were do to the ground reference being measured. A nultiple power cables to a not exceeded. In table 0.8m above the rangement, the EUT was been erence plane. The rear do reference plane. The endition has boundary of the plane for LISNs has distance was EUT. All other units of 0.8 m from the LISN 2. 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.



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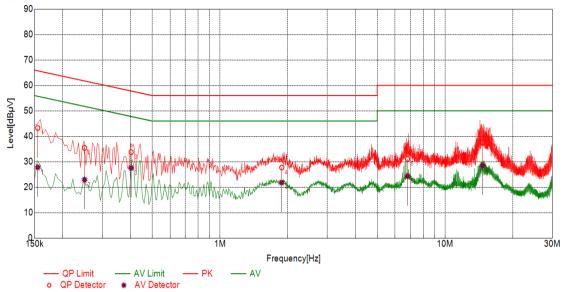
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Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1551	10.10	43.26	65.72	22.46	27.82	55.72	27.90	L
2	0.2503	10.10	35.45	61.75	26.30	22.91	51.75	28.84	L
3	0.4030	10.10	33.79	57.79	24.00	27.55	47.79	20.24	L
4	1.8825	10.10	27.73	56.00	28.27	21.80	46.00	24.20	L
5	6.8078	10.10	31.14	60.00	28.86	24.32	50.00	25.68	Ĺ
6	14.6808	10.11	37.60	60.00	22.40	28.54	50.00	21.46	L



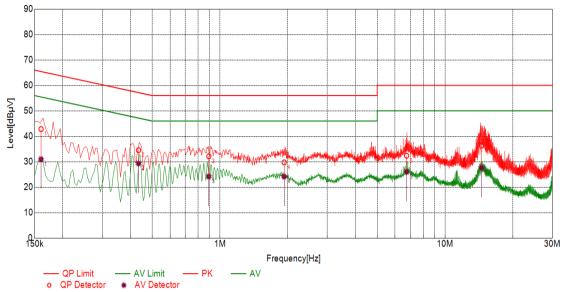
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Neutral Line:



Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1604	10.10	42.83	65.44	22.61	31.00	55.44	24.44	N
2	0.4347	10.10	34.54	57.16	22.62	29.30	47.16	17.86	Ν
3	0.8921	10.10	32.13	56.00	23.87	24.22	46.00	21.78	N
4	1.9286	10.10	29.76	56.00	26.24	24.15	46.00	21.85	N
5	6.7453	10.10	32.34	60.00	27.66	26.00	50.00	24.00	Ν
6	14.5162	10.11	36.33	60.00	23.67	27.64	50.00	22.36	Ν

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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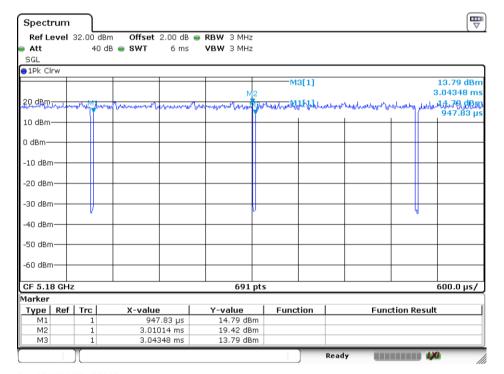
4.3 Duty Cycle

4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11A	Ant 1: CH149, CH157, CH165	98.90
11N20	Ant 1: CH149, CH157, CH165	95.33
11N40	Ant 1: CH151, CH159	90.79
11AC20	Ant 1: CH149, CH157, CH165	95.16
11AC40	Ant 1: CH151, CH159	91.25
11AC80	Ant 1: CH155	87.13

4.3.1 Test Plots 4.3.1.1 ANT1

4.3.1.1.1 11A



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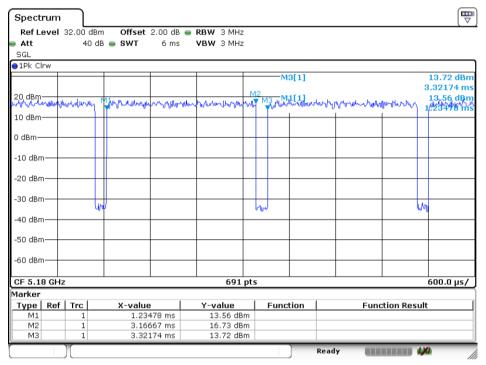
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4.3.1.1.2 11N20



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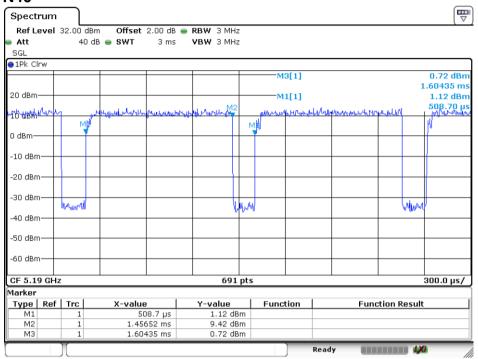
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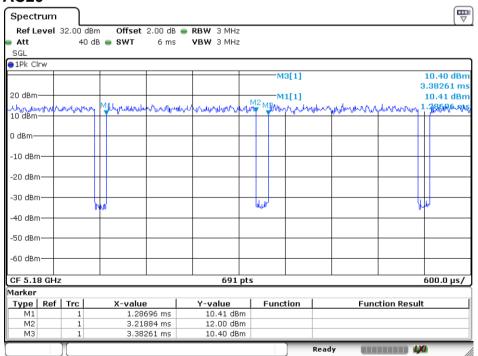
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4.3.1.1.3 11N40



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4.3.1.1.4 11AC20



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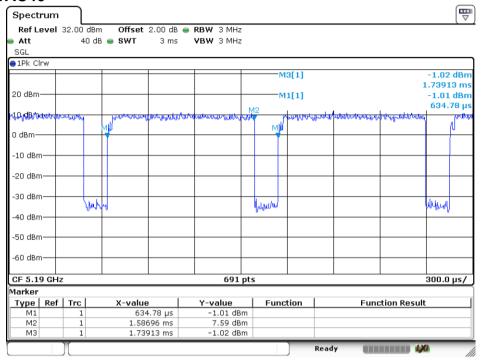
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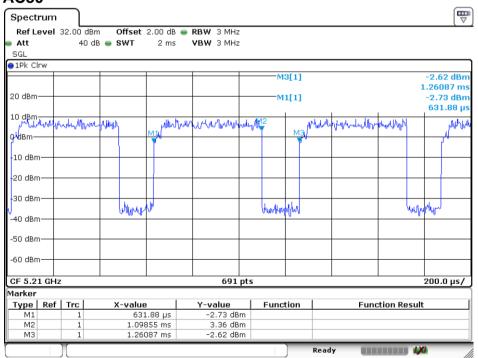
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4.3.1.1.5 11AC40



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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 Sect	ion 15.407(a)				
Test Method:	ANSI C63.10: 2013					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.10 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(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+ 10					
	5470-5725MHz The lesser of 250mW(24dBm) or 11+ 10lo					
	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	18.82	17.72	PASS	
	44	5220	ANT 1	18.68	17.58	PASS	
	48	5240	ANT 1	18.55	17.45	PASS	
	52	5260	ANT 1	18.53	17.43	PASS	
	60	5300	ANT 1	18.63	17.53	PASS	
	64	5320	ANT 1	18.66	17.56	PASS	
11A20	100	5500	ANT 1	18.68	17.58	PASS	
11/20	116	5580	ANT 1	18.53	17.43	PASS	
	140	5700	ANT 1	18.76	17.66	PASS	
	144(BandII-C)	5720	ANT 1	17.68	16.58	PASS	
	144(BandIII)	5720	ANT 1	10.91	9.81	PASS	
	149	5745	ANT 1	18.89	17.79	PASS	
	157	5785	ANT 1	18.98	17.88	PASS	
	165	5825	ANT 1	18.96	17.86	PASS	
	36	5180	ANT 1	17.67	16.57	PASS	
	44	5220	ANT 1	17.48	16.38	PASS	
	48	5240	ANT 1	17.37	16.27	PASS	
	52	5260	ANT 1	17.31	16.21	PASS	
	60	5300	ANT 1	17.47	16.37	PASS	
	64	5320	ANT 1	17.56	16.46	PASS	
11N20	100	5500	ANT 1	17.48	16.38	PASS	
111120	116	5580	ANT 1	17.37	16.27	PASS	
	140	5700	ANT 1	17.62	16.52	PASS	
	144(BandII-C)	5720	ANT 1	16.06	15.06	PASS	
	144(BandIII)	5720	ANT 1	9.85	8.75	PASS	
	149	5745	ANT 1	17.7	16.6	PASS	
	157	5785	ANT 1	17.83	16.73	PASS	
	165	5825	ANT 1	17.77	16.67	PASS	



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			1			1
	38	5190	ANT 1	17.34	16.24	PASS
	46	5230	ANT 1	17.14	16.04	PASS
	54	5270	ANT 1	17	15.9	PASS
	62	5310	ANT 1	17.11	16.01	PASS
	102	5510	ANT 1	17.13	16.03	PASS
11N40	110	5550	ANT 1	17.13	16.03	PASS
	134	5670	ANT 1	16.93	15.83	PASS
	142(BandII-C)	5710	ANT 1	15.87	14.77	PASS
	142(BandIII)	5710	ANT 1	5.38	4.28	PASS
	151	5755	ANT 1	17.25	16.15	PASS
	159	5795	ANT 1	17.32	16.22	PASS
	36	5180	ANT 1	14.55	13.45	PASS
	44	5220	ANT 1	14.38	13.28	PASS
	48	5240	ANT 1	14.17	13.07	PASS
	52	5260	ANT 1	14.18	13.08	PASS
	60	5300	ANT 1	14.3	13.2	PASS
	64	5320	ANT 1	14.32	13.22	PASS
11AC20	100	5500	ANT 1	14.32	13.22	PASS
TTACZU	116	5580	ANT 1	14.16	13.06	PASS
	140	5700	ANT 1	15.54	14.44	PASS
	144(BandII-C)	5720	ANT 1	13.99	12.89	PASS
	144(BandIII)	5720	ANT 1	7.82	6.72	PASS
	149	5745	ANT 1	15.61	14.51	PASS
	157	5785	ANT 1	15.71	14.61	PASS
	165	5825	ANT 1	15.64	14.54	PASS
	38	5190	ANT 1	15.1	14	PASS
	46	5230	ANT 1	14.86	13.76	PASS
	54	5270	ANT 1	14.71	13.61	PASS
11AC40	62	5310	ANT 1	14.82	13.72	PASS
	102	5510	ANT 1	14.85	13.75	PASS
	110	5550	ANT 1	14.8	13.7	PASS
	134	5670	ANT 1	14.64	13.54	PASS



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			1 1			1
	142(BandII-C)	5710	ANT 1	14.86	13.76	PASS
	142(BandIII)	5710	ANT 1	4.36	3.26	PASS
	151	5755	ANT 1	16.1	15	PASS
	159	5795	ANT 1	16.21	15.11	PASS
	42	5210	ANT 1	15.64	14.54	PASS
	58	5290	ANT 1	15.19	14.09	PASS
	106	5530	ANT 1	15.33	14.23	PASS
11AC80	122	5610	ANT 1	15.26	14.16	PASS
	138(BandII-C)	5690	ANT 1	14.97	13.87	PASS
	138(BandIII)	5690	ANT 1	1.59	0.49	PASS
	155	5775	ANT 1	16.76	15.66	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 5.10 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

7.3.1				Lillission Danawiath	
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
	36	5180	ANT 1	22.77	PASS
	44	5220	ANT 1	23.07	PASS
	48	5240	ANT 1	22.83	PASS
	60	5300	ANT 1	23.16	PASS
	52	5260	ANT 1	22.38	PASS
11A20	64	5320	ANT 1	22.74	PASS
	100	5500	ANT 1	23.07	PASS
	116	5580	ANT 1	23.61	PASS
	140	5700	ANT 1	23.43	PASS
	144	5720	ANT 1	21.82	PASS
	36	5180	ANT 1	23.82	PASS
	44	5220	ANT 1	23.82	PASS
	48	5240	ANT 1	23.88	PASS
	52	5260	ANT 1	23.52	PASS
441100	60	5300	ANT 1	23.64	PASS
11N20	64	5320	ANT 1	23.34	PASS
	100	5500	ANT 1	23.61	PASS
	116	5580	ANT 1	23.64	PASS
	140	5700	ANT 1	23.85	PASS
	144	5720	ANT 1	22.86	PASS
	38	5190	ANT 1	42.12	PASS
	46	5230	ANT 1	42.12	PASS
	54	5270	ANT 1	42.24	PASS
111110	62	5310	ANT 1	42.06	PASS
11N40	102	5510	ANT 1	41.76	PASS
	110	5550	ANT 1	41.88	PASS
	134	5670	ANT 1	42.12	PASS
	142	5710	ANT 1	41.80	PASS
	36	5180	ANT 1	23.7	PASS
	44	5220	ANT 1	23.61	PASS
	48	5240	ANT 1	23.46	PASS
11AC20	52	5260	ANT 1	23.52	PASS
TIAOZO	60	5300	ANT 1	23.94	PASS
	64	5320	ANT 1	23.43	PASS
	100	5500	ANT 1	23.58	PASS
	116	5580	ANT 1	23.64	PASS



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	140	5700	ANT 1	23.61	PASS
	144	5720	ANT 1	22.82	PASS
	38	5190	ANT 1	41.88	PASS
	46	5230	ANT 1	41.7	PASS
	54	5270	ANT 1	42	PASS
11AC40	62	5310	ANT 1	41.88	PASS
TTAC40	102	5510	ANT 1	42.12	PASS
	110	5550	ANT 1	41.94	PASS
	134	5670	ANT 1	42.06	PASS
	142	5710	ANT 1	41.80	PASS
	42	5210	ANT 1	85.92	PASS
	58	5290	ANT 1	84.16	PASS
11AC80	106	5530	ANT 1	84.48	PASS
	122	5610	ANT 1	84.64	PASS
	138	5690	ANT 1	84.24	PASS



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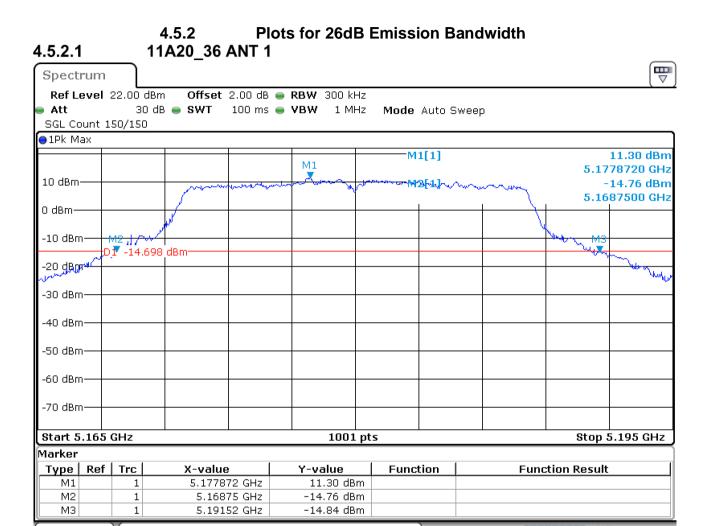
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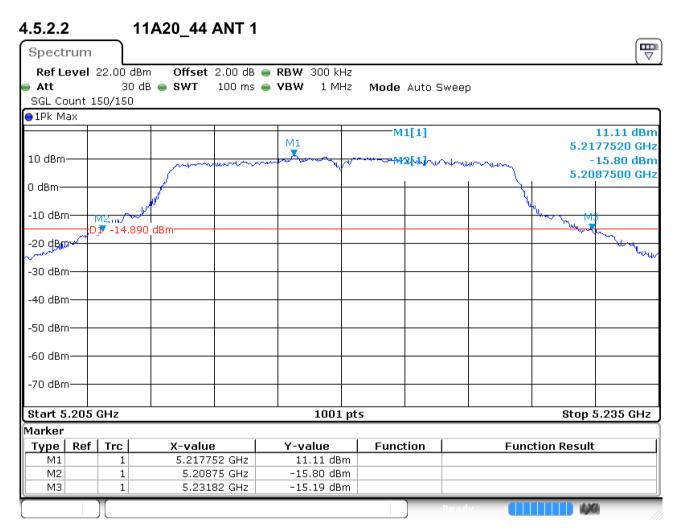
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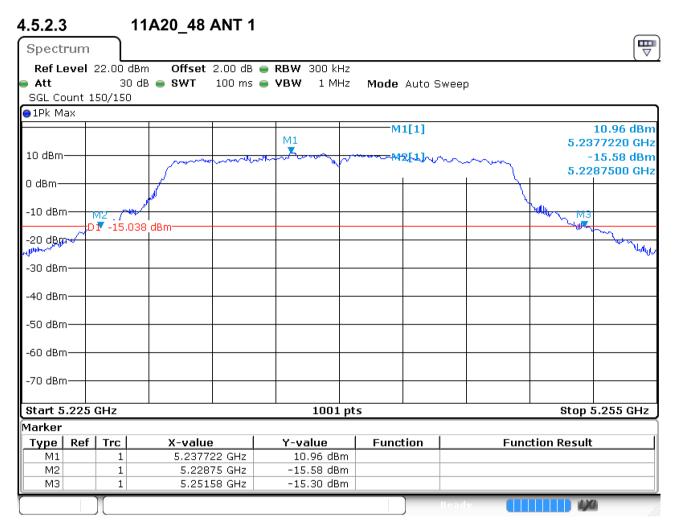
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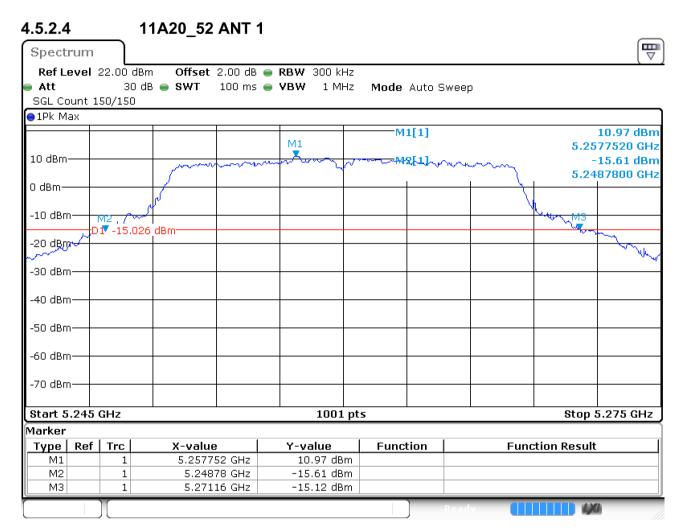
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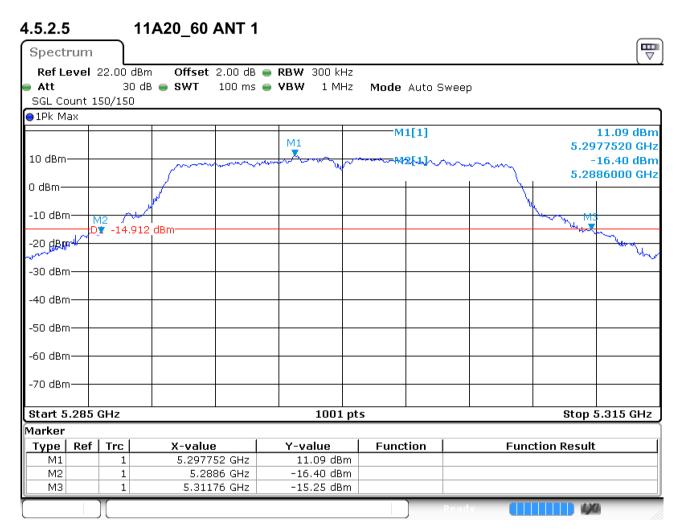
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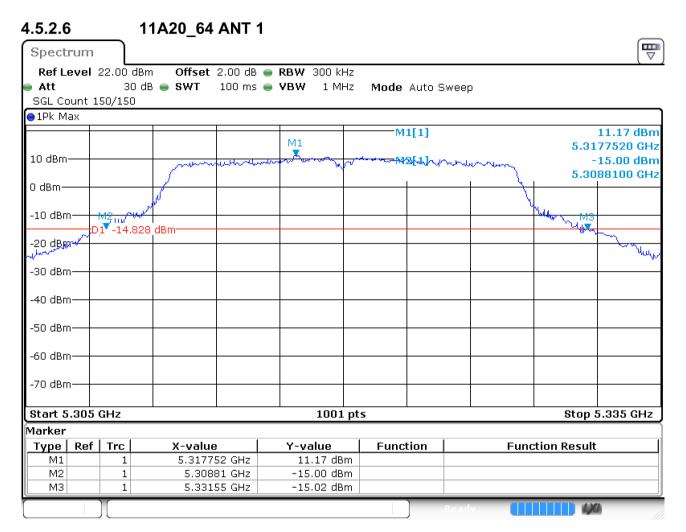
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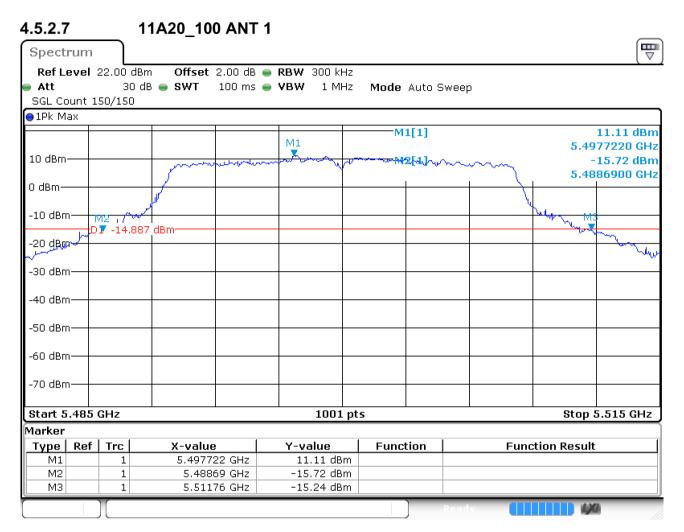
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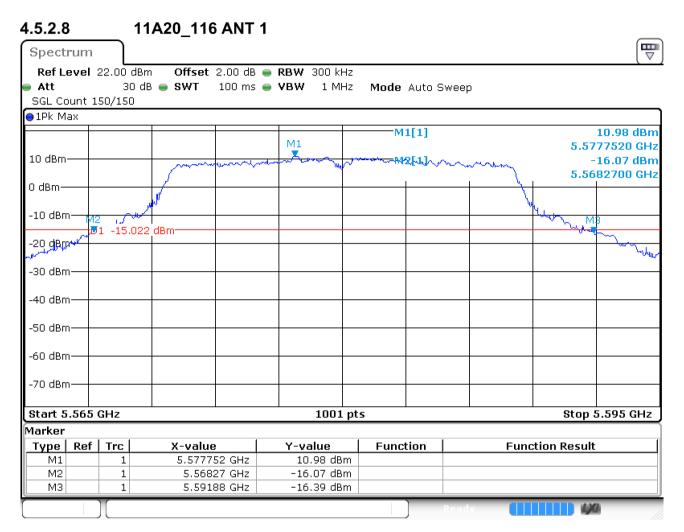
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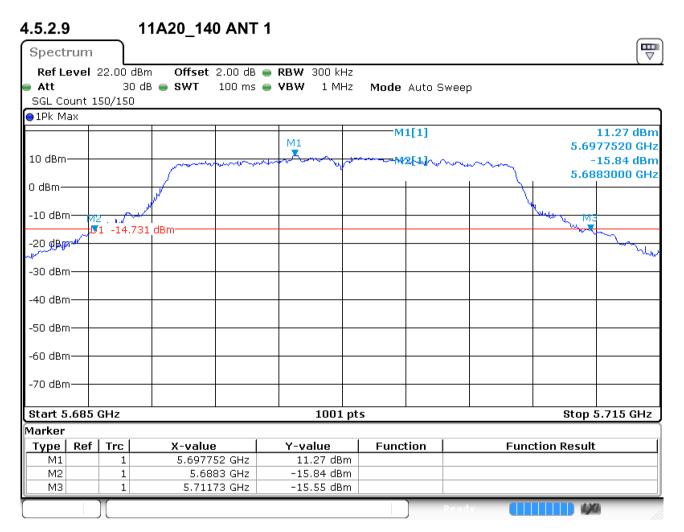
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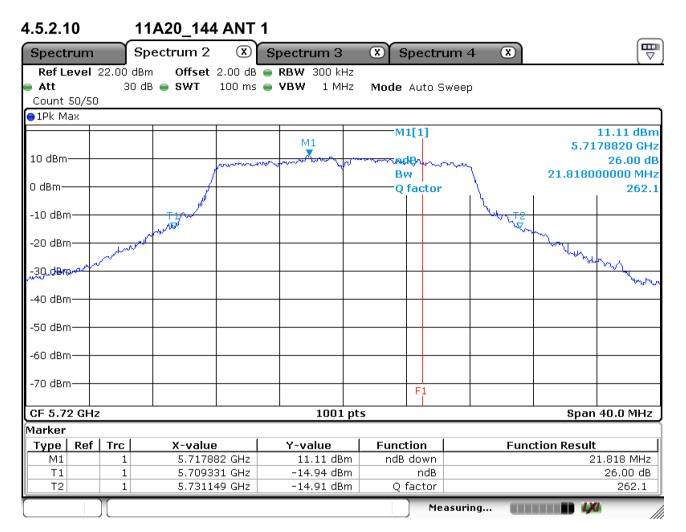
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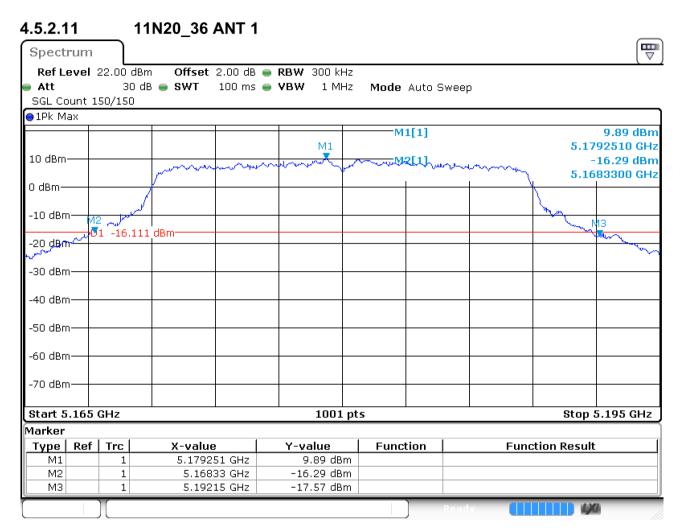
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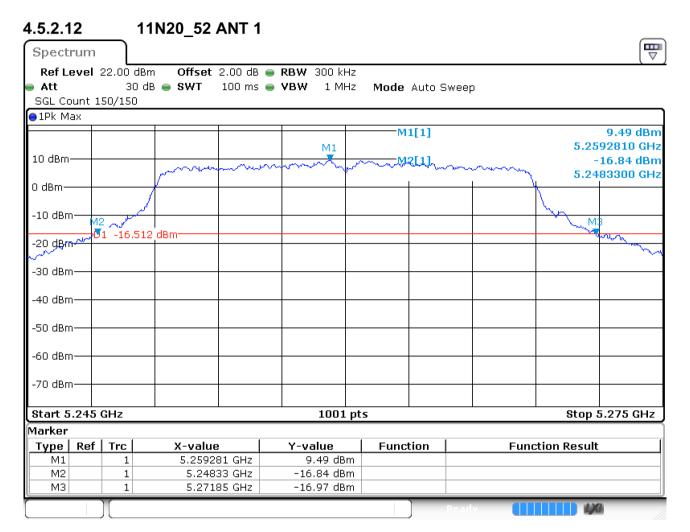
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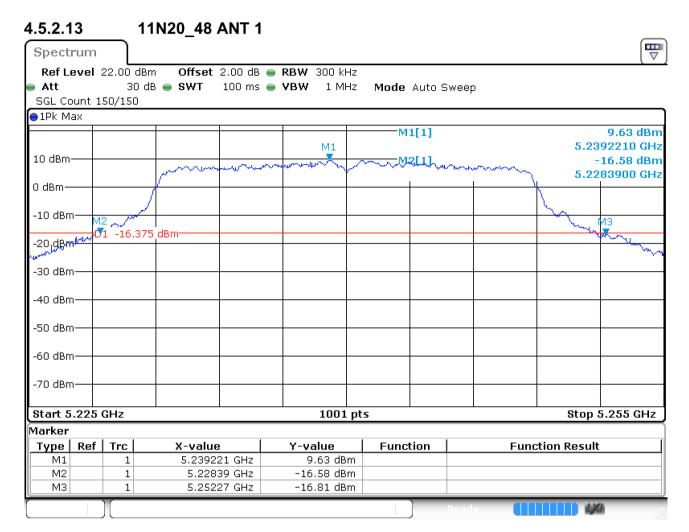
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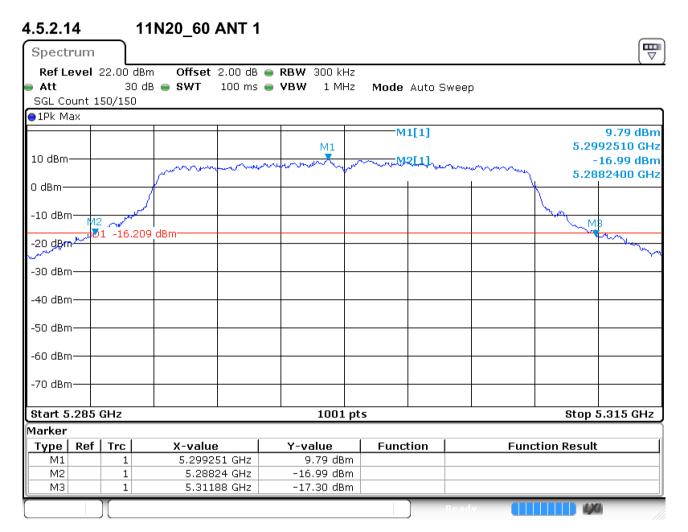
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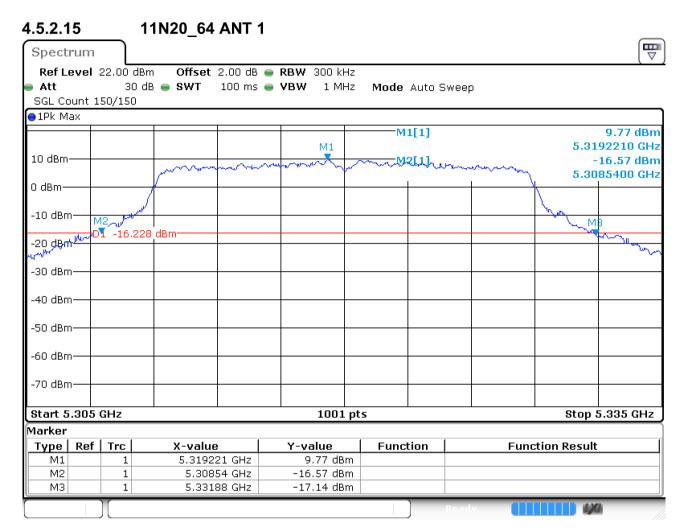
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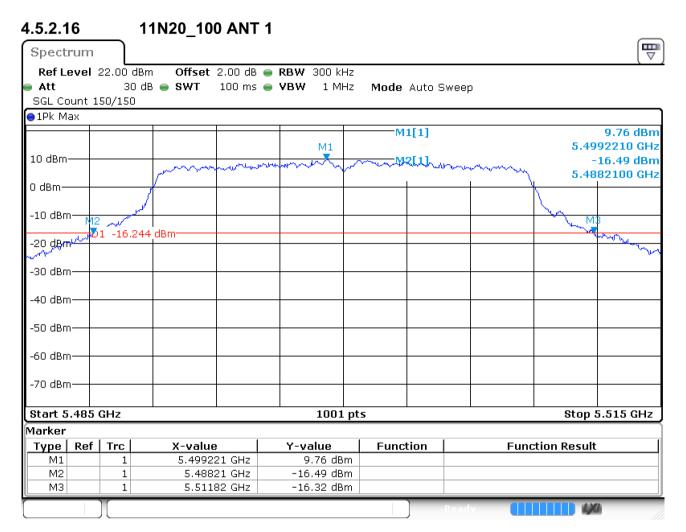
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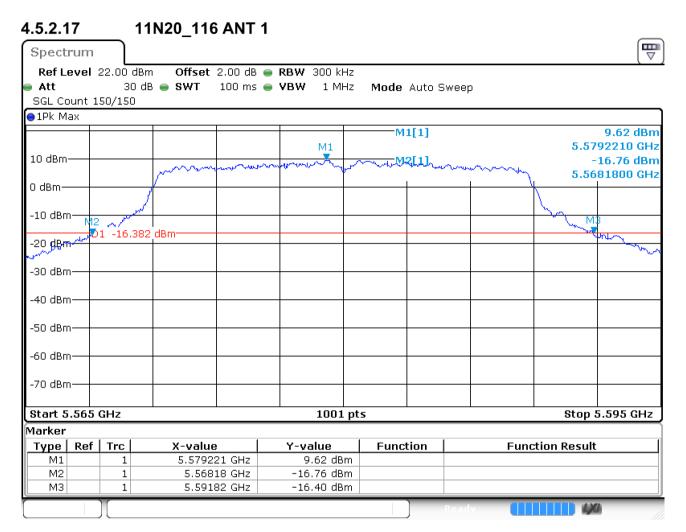
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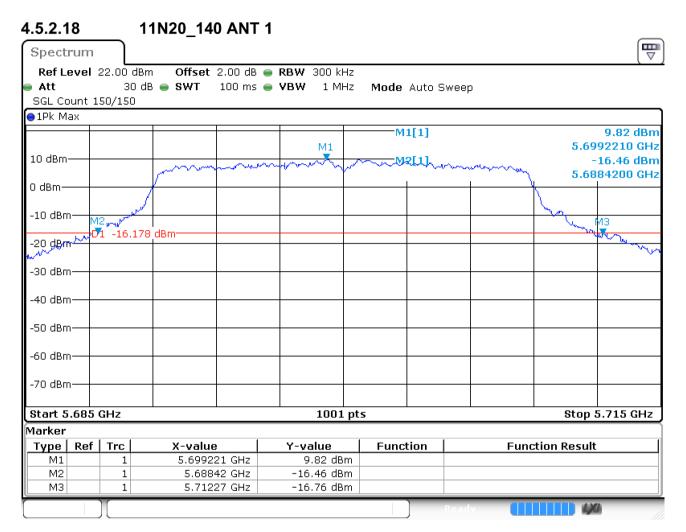
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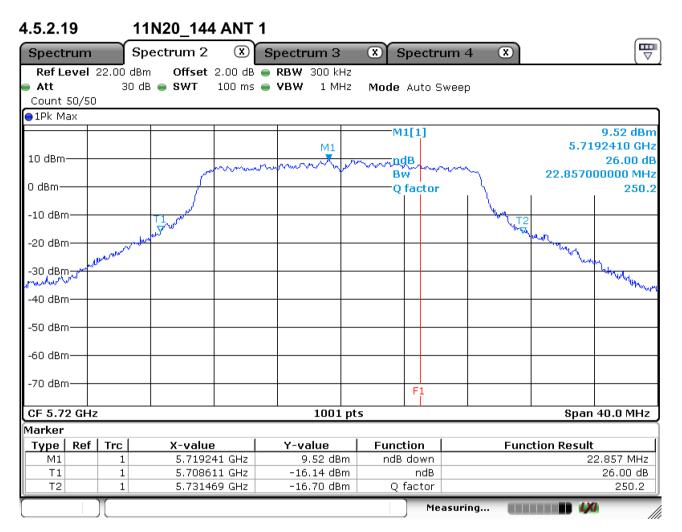
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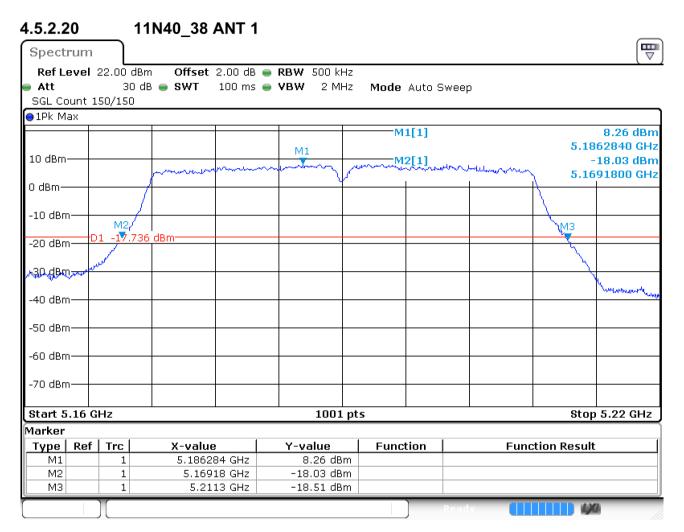
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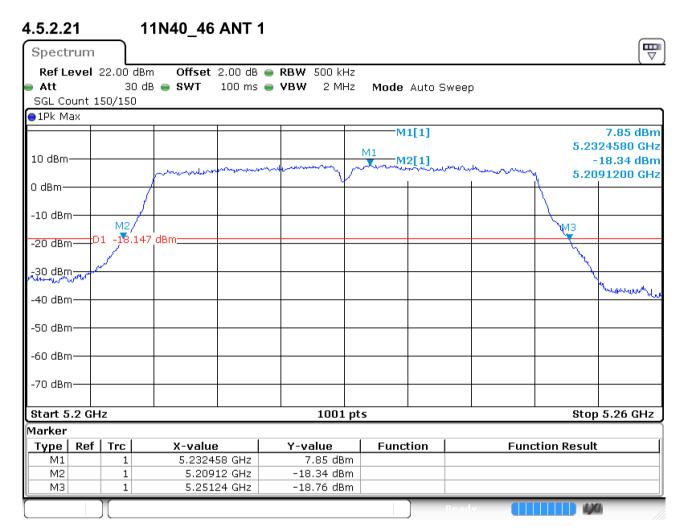
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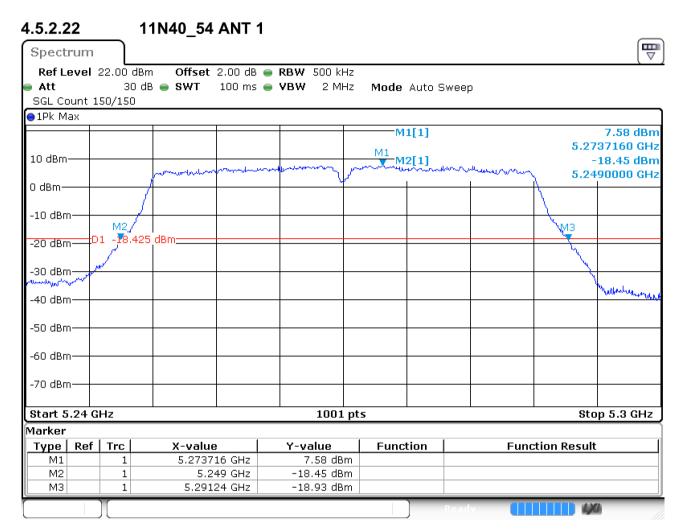
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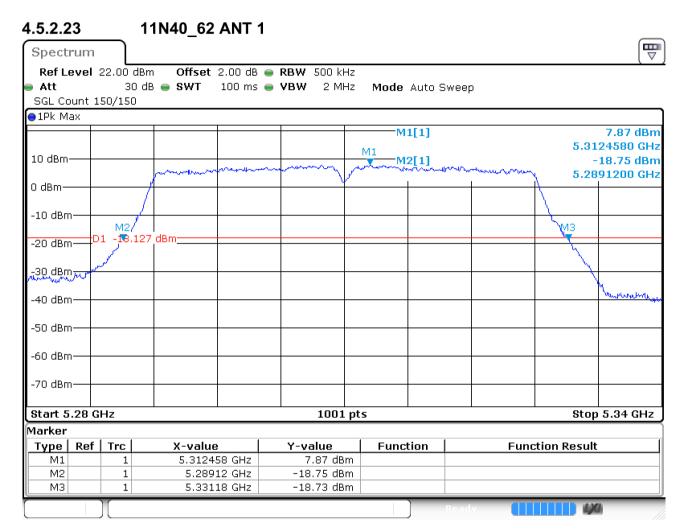
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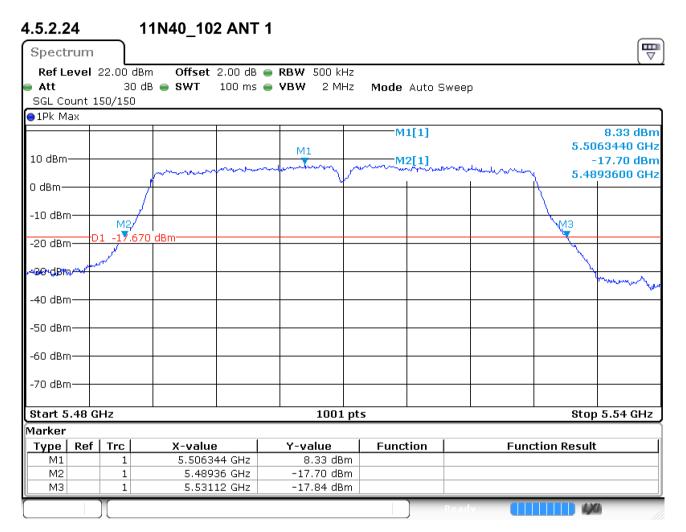
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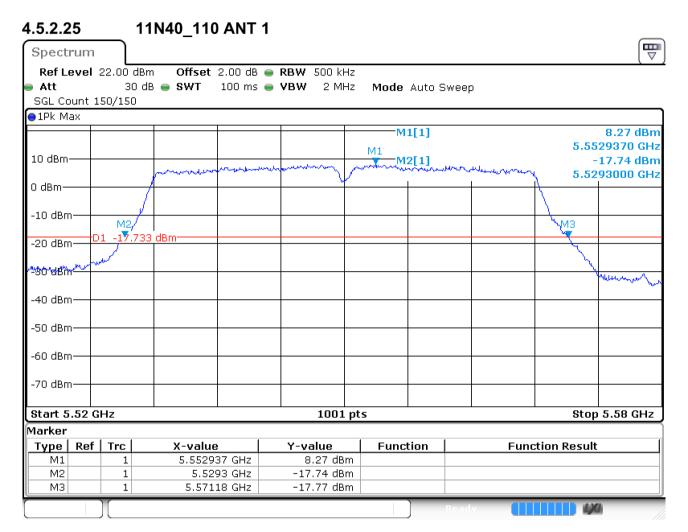
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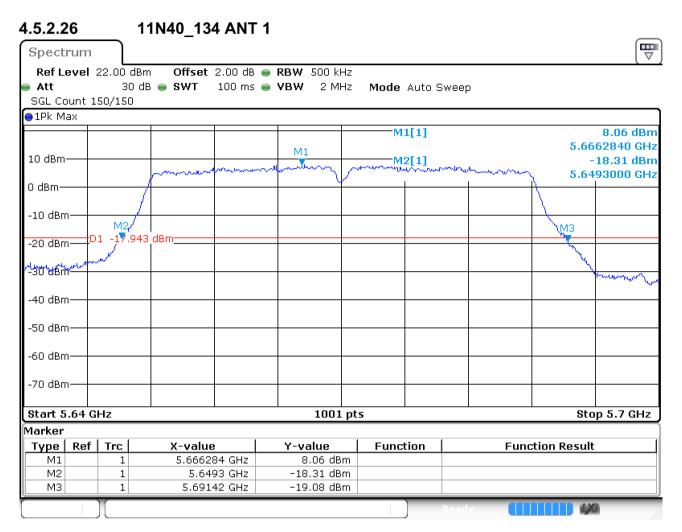
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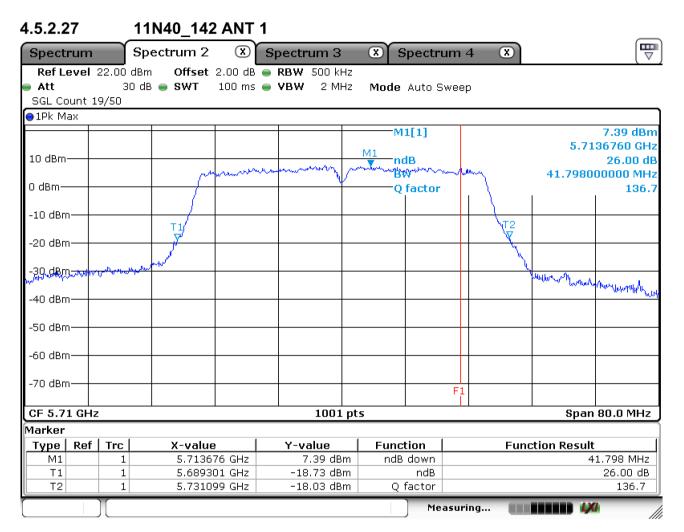
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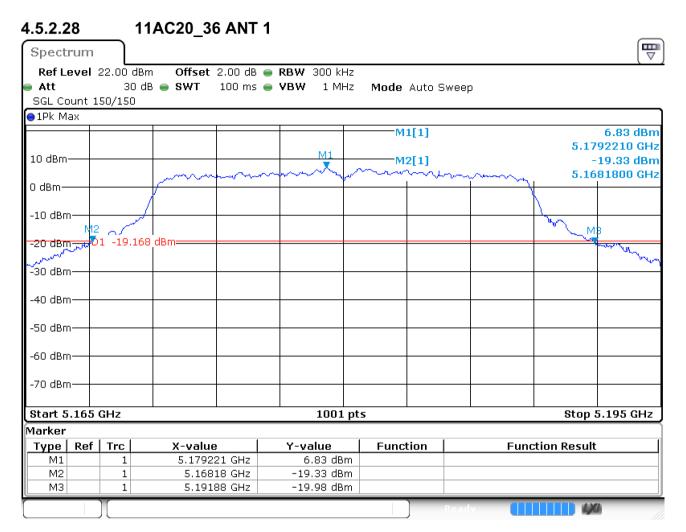
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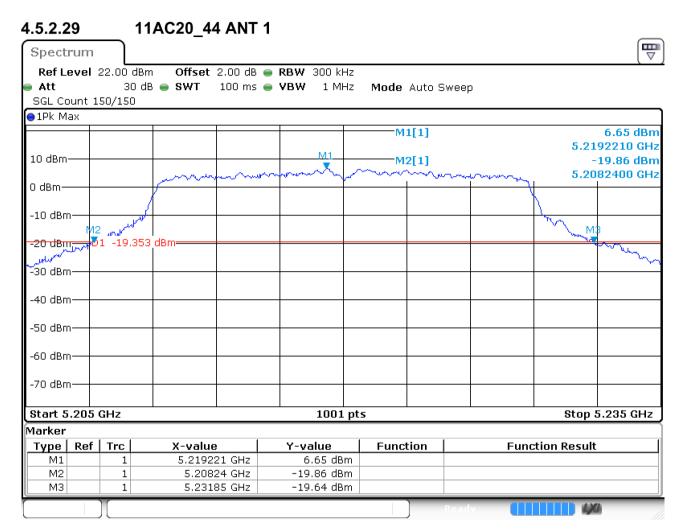
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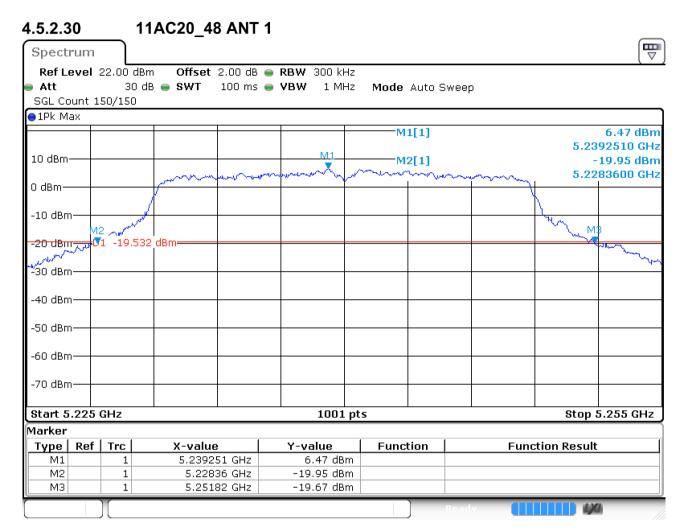
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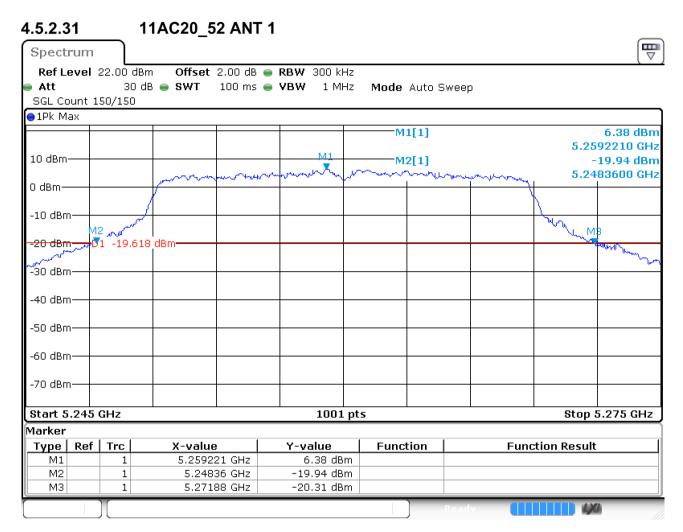
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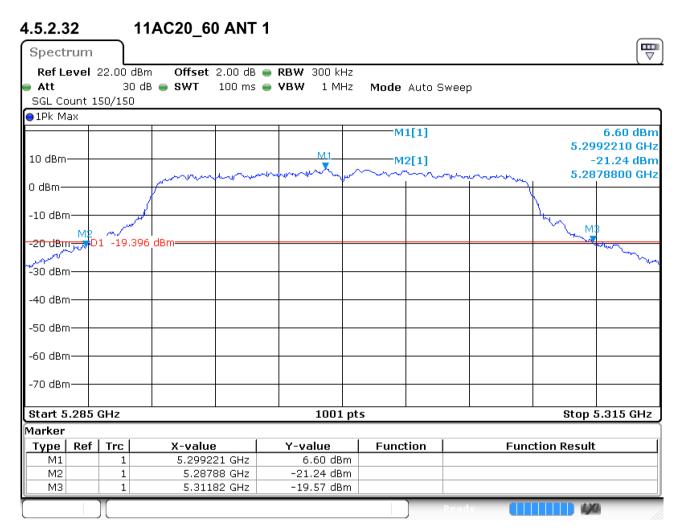
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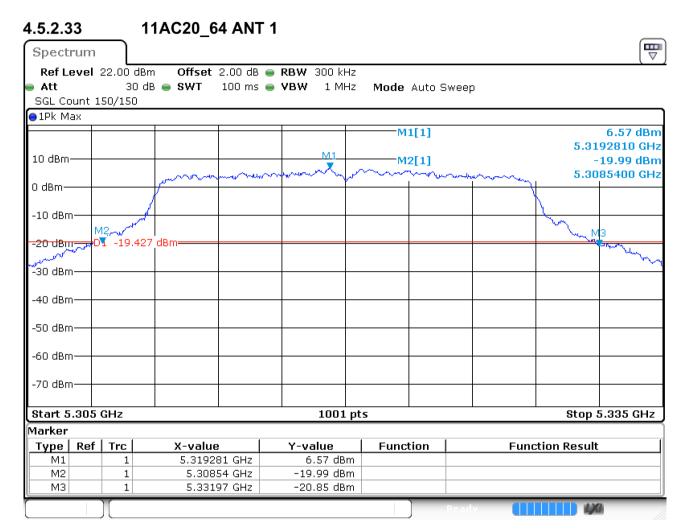
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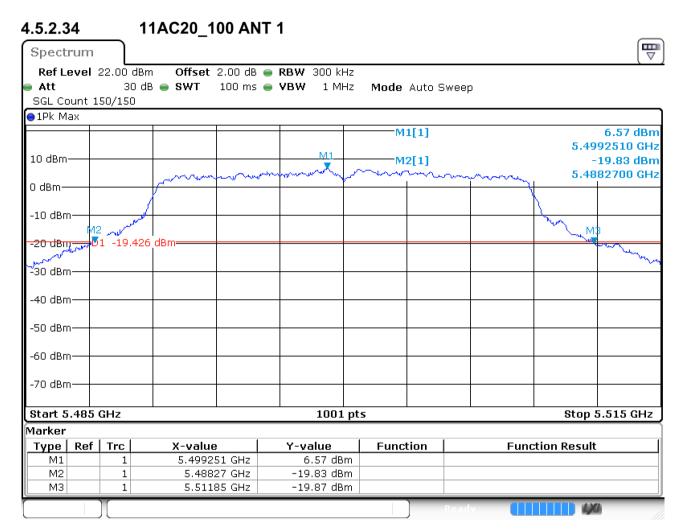
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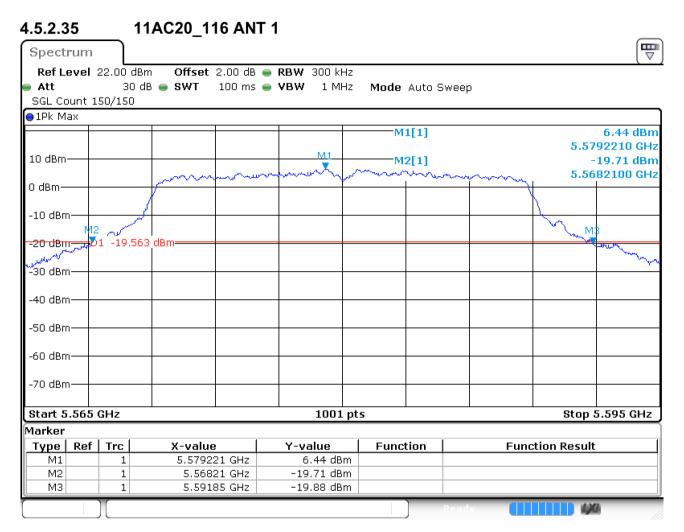
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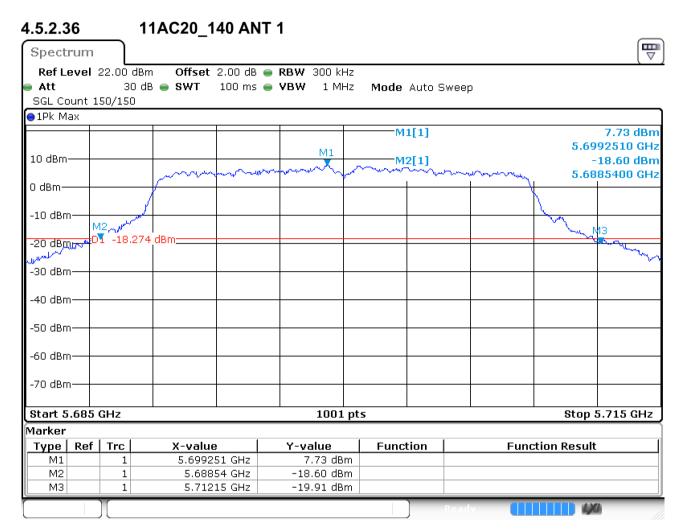
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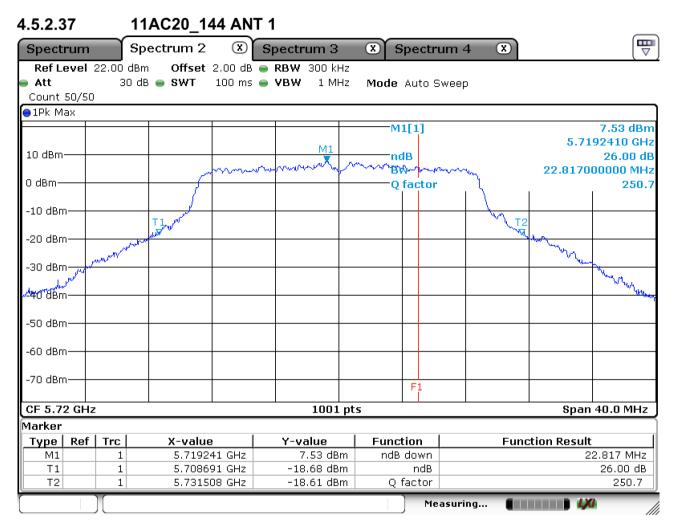
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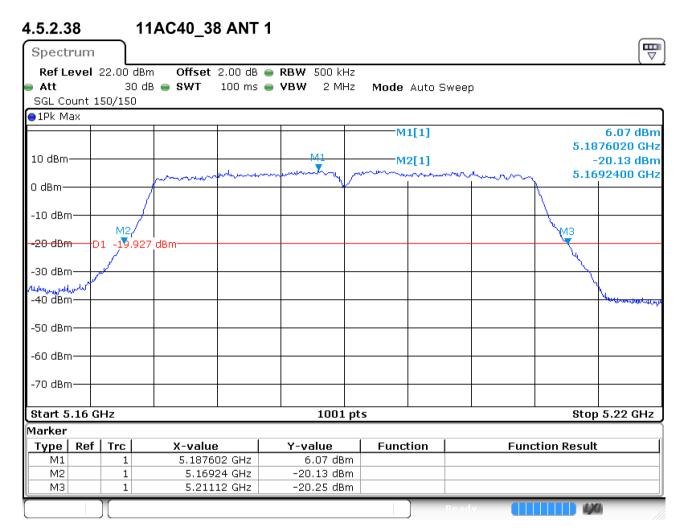
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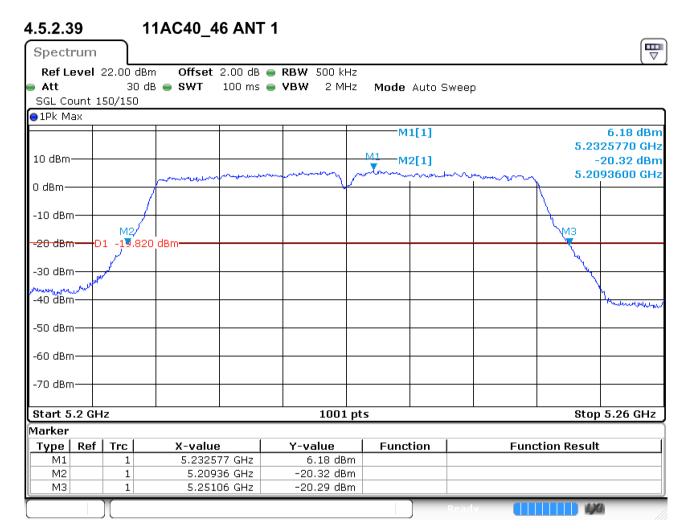
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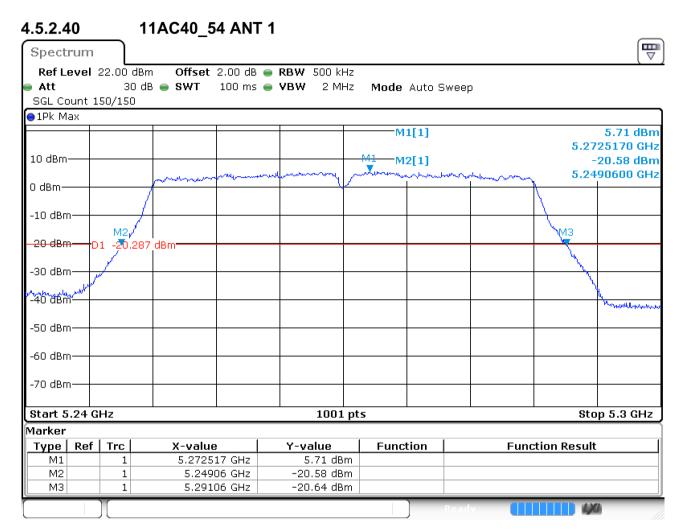
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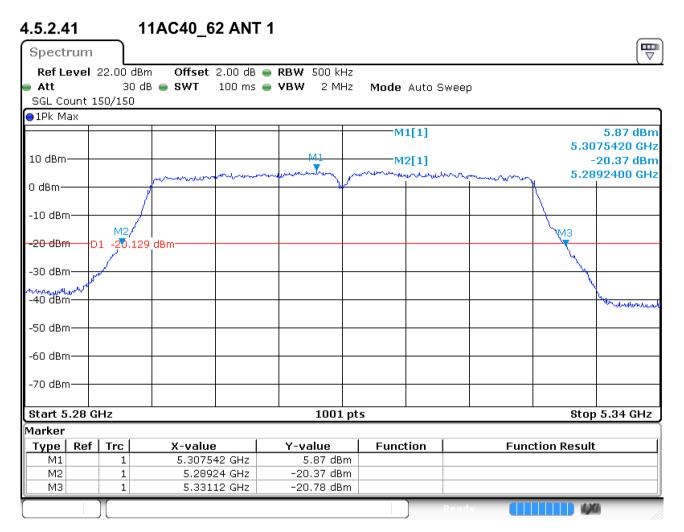
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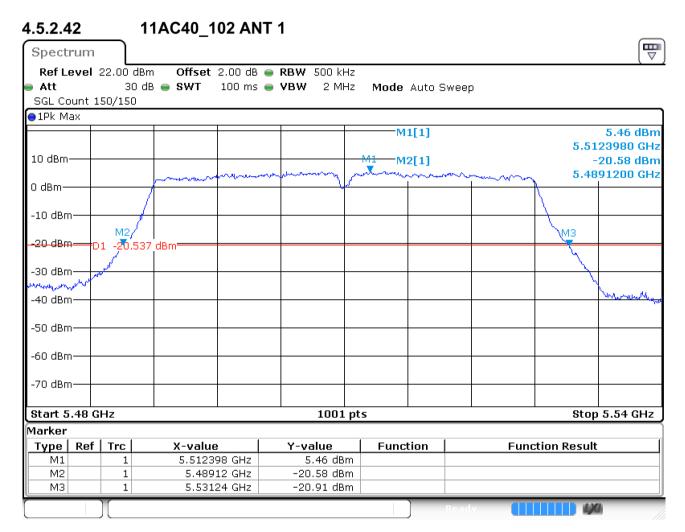
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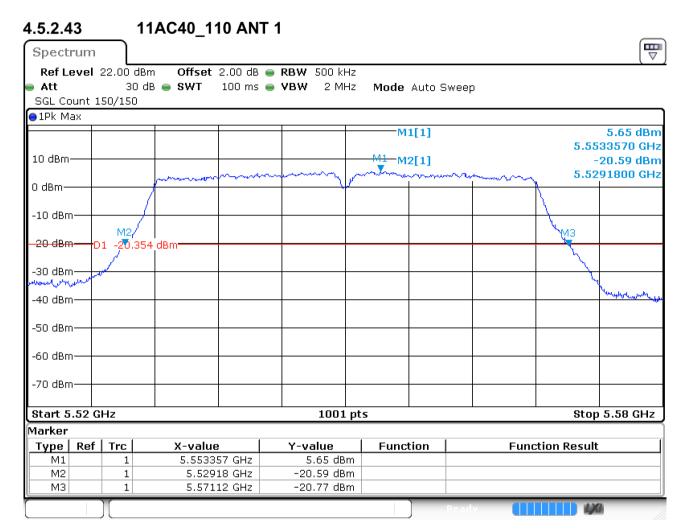
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