

Report No.: ZR/2020/5003805

Page: 1 of 971

### FCC TEST REPORT

Application No: ZR/2020/50038

**Applicant:** Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Address of Applicant NO.18 HaiBin Road, WuSha Village, Chang An Town, DongGuan City,

GuangDong,China

Manufacturer: Guangdong OPPO Mobile Telecommunications Corp., Ltd.

Address of Manufacturer: NO.18 HaiBin Road, WuSha Village, Chang An Town, DongGuan City,

GuangDong,China

EUT Description: Mobile Phone

Model No.: CPH2089

Trade Mark: OPPO

FCC ID: R9C-CPH2089

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: 2020/6/1

**Date of Test:** 2020/6/1 to 2020/6/30

**Date of Issue:** 2020/8/3

Test Result: PASS \*

Authorized Signature:

Derele yang

Derek Yang Wireless Laboratory Manager



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<sup>. \*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: ZR/2020/5003805

Page: 2 of 971

## 1 Version

	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2020/8/3		Original	

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



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Report No.: ZR/2020/5003805

Page: 3 of 971

### **Contents**

1	1 VERSION	
2	2 TEST SUMMARY	
3		
•	3.1 CLIENT INFORMATION	
	3.2 TEST LOCATION	
	3.3 TEST FACILITY	8
	3.4 GENERAL DESCRIPTION OF EUT	
	3.5 TEST ENVIRONMENT AND MODE	
4	4 TEST RESULTS AND MEASUREMENT DATA	13
	4.1 ANTENNA REQUIREMENT	
	4.2 CONDUCTED EMISSIONS	
	4.3.1 TEST RESULTS	
	4.3.1 TEST PLOTS	
	4.4 CONDUCTED OUTPUT POWER	
	4.5 26DB EMISSION BANDWIDTH	47
	4.5.1 PLOTS FOR 26DB EMISSION BANDWIDTH	
	4.6 6DB EMISSION BANDWIDTH4.6.1 TEST PLOTS FOR 6DB EMISSION BANDWIDTH	
	4.6.1 TEST PLOTS FOR 6DB EMISSION BANDWIDTH4.6.2 TEST PLOTS FOR 6DB EMISSION BANDWIDTH	234
	4.7 99% OCCUPIED BANDWIDTH	
	4.7.1 TEST RESULTS FOR 99% OCCUPIED BANDWIDTH	292
	4.7.2 TEST PLOTS FOR 99% OCCUPIED BANDWIDTH	
	4.8 POWER SPECTRAL DENSITY	
	4.8.1 TEST RESULTS FOR POWER DENSITY4.8.2 TEST PLOTS FOR POWER DENSITY	
	4.9 RADIATED SPURIOUS EMISSIONS	
	4.9.1 RADIATED EMISSION BELOW 1GHZ	
	4.9.2 TRANSMITTER EMISSION ABOVE 1GHZ	
	4.10 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	
	4.10.1 TEST PLOTS4.11 FREQUENCIES STABILITY	
	4.11.1 FREQUENCY ERROR VS. VOLTAGE:	
	4.11.2 FREQUENCY ERROR VS. TEMPERATURE:	
	4.12 DYNAMIC FREQUENCY SELECTION	
	4.12.1 DFS OVERVIEW	
	4.12.2 DFS DETECTION THRESHOLDS	
	4.12.3 RESPONSE REQUIREMENTS4.12.4 TEST PLOTS	
	4.12.5 TEST DATA:	
5		
6		
7		
1	7 PHOTOGRAPHS - EUT TEST SETUP DETAILS	



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Report No.: ZR/2020/5003805

Page: 4 of 971

## 2 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
Emission Bandwidth	5150-5250 5250-5350 5470-5725	15.403(i) 15.407(a)(1) 15.403(i) 15.407(a)(2) 15.403(i) 15.407(a)(2)	No limit.	Clause 4.4	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§ II.D	DB 789033 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 Conducted	5250-5350	15.407(a)(2) 15.407(a)(4)	<min{250mw,11dbm+10*lg(ebw)} (avg="" during="" td="" transmission)<=""><td>Clause 4.3</td><td></td></min{250mw,11dbm+10*lg(ebw)}>	Clause 4.3	
Output Power	5470-5725	15.407(a)(2)		4.3	
	5725-5850	15.407(a)(3) 15.407(a)(1)	(avg during transmission)		Pass
	5150-5250	15.407(a)(4)	(avg during transmission)		
maximum Power Spectral Density	5250-5350	15.407(a)(2) 15.407(a)(4)	(avg during transmission)	Clause	
Spectral Delisity	5470-5725	15.407(a)(2) 15.407(a)(4)	(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	Dece
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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Report No.: ZR/2020/5003805

Page: 5 of 971

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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Report No.: ZR/2020/5003805

Page: 6 of 971

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



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Report No.: ZR/2020/5003805

7 of 971 Page:

#### **General Information** 3

### 3.1 Client Information

Applicant:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.		
Address of Applicant:	NO.18 HaiBin Road, WuSha Village, Chang An Town, DongGuan City, GuangDong,China		
Manufacturer:	Guangdong OPPO Mobile Telecommunications Corp., Ltd.		
Address of Manufacturer:	NO.18 HaiBin Road, WuSha Village, Chang An Town, DongGuan City, GuangDong,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	



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Report No.: ZR/2020/5003805

Page: 8 of 971

### 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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Report No.: ZR/2020/5003805

Page: 9 of 971

## 3.4 General Description of EUT

EUT Description:	Mobile Phone		
Model No.:	CPH2089		
Trade Mark:	OPPO		
Hardware Version:	11		
Software Version:	ColorOS V7.2		
IEEE 802.11 WLAN Mode Supported	<ul> <li>     ⊠ 802.11a (20 MHz channel bandwidth);</li> <li>     ⊠ 802.11n (20 MHz channel bandwidth);</li> <li>     ⊠ 802.11n (40 MHz channel bandwidth);</li> <li>     ⊠ 802.11ac (20 MHz channel bandwidth);</li> <li>     ⋈ 802.11ac (40 MHz channel bandwidth);</li> <li>     ⋈ 802.11ac (80 MHz channel bandwidth);</li> <li>     ⋈ 802.11ac (160 MHz channel bandwidth),</li> </ul>		
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:	$\square$ Master $\square$ Slave with radar detection $\boxtimes$ Slave without radar detection		
Sample Type:	⊠ Portable Device, ☐ Module		
Antenna Type:	☐ External, ⊠ Integrated		
Antenna Ports	⊠ Ant 1, ⊠ Ant 2, □ Ant 3		
Smart System	<ul><li>SISO (for 802.11a/n/ac),</li><li>MIMO (for 802.11a/n/ac),</li><li>□ Diversity (for 802.11a) : Tx &amp; Rx</li></ul>		
Antenna Gain:	ANT1:-3.5dBi; ANT2:-5dBi;		
Power Supply	⊠ AC/DC Adapter; □ PoE:; □ Other:		
Directional Gain:	-1.21(Correlated)		

#### 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



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Report No.: ZR/2020/5003805

Page: 10 of 971

#### 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 OUZ. I III/dC 4UIVIMZ	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
IEEE 002.1111/aC 40WIHZ	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 000 4400 00MHz	The Lowest channel	5500		
IEEE 802.11ac 80MHz	The Highest channel	5580		



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Report No.: ZR/2020/5003805

Page: 11 of 971

#### 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 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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Report No.: ZR/2020/5003805

Page: 12 of 971

### 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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Report No.: ZR/2020/5003805

13 of 971 Page:

### **Test results and Measurement Data**

### 4.1 Antenna Requirement

Test Requirement:	47 CFR Part 15 Section 15.203
The antenna is integrated ar	itenna and no consideration of replacement. The best case gain of the antenna is
-3.5dBi.	

### 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:	- (141)	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 of the frequency.					
Test Procedure:	5-30 60 50					



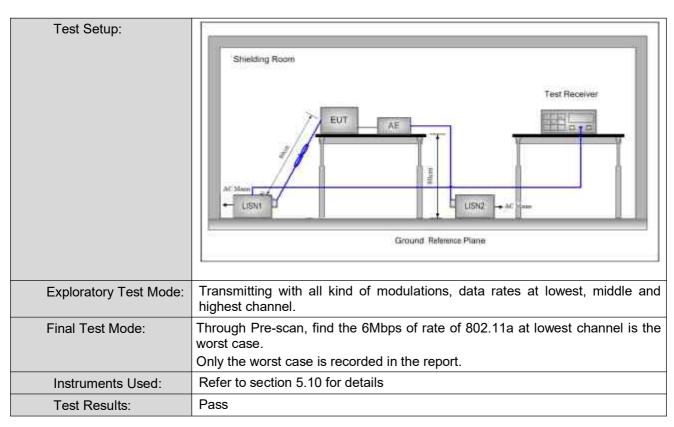
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Report No.: ZR/2020/5003805

14 of 971 Page:



#### 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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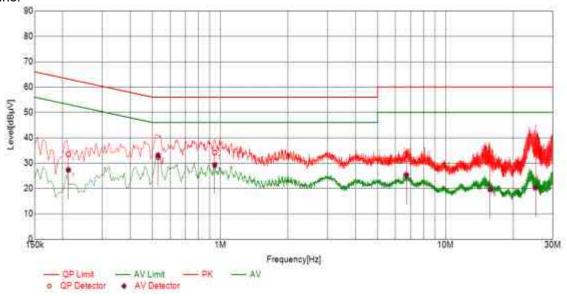
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Report No.: ZR/2020/5003805

Page: 15 of 971





#### **Test Graph**

Fina	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.2118	10.10	33.48	63.13	29.65	27.28	53.13	25.85	L
2	0.5301	10.10	32.32	56.00	23.68	33.01	46.00	12.99	L
3	0.9462	10.10	34.13	56.00	21.87	29.28	46.00	16.72	L
4	6.7221	10.10	31.54	60.00	28.46	25.30	50.00	24.70	L
5	15.7737	10.11	29.84	60.00	30.16	19.62	50.00	30.38	Ĺ
6	25.1082	10.11	34.33	60.00	25.67	20.21	50.00	29.79	L



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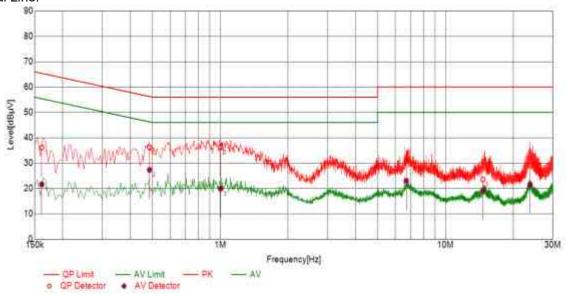
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Report No.: ZR/2020/5003805

16 of 971 Page:

#### **Neutral Line:**



#### **Test Graph**

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value	QP Limit	QP Margin	AV Value	AV Limit	AV Margin	Туре
1	0.1614	10.10	36.08	65.39	29.31	21.59	55.39	33.80	N
2	0.4856	10.10	36.18	56.24	20.06	27.32	46.24	18.92	N
3	1.0056	10.10	36.18	56.00	19.82	19.86	46.00	26.14	N
4	6.7089	10.10	31.07	60.00	28.93	22.99	50.00	27.01	N
5	14.6912	10.11	23.49	60.00	36.51	19.18	50.00	30.82	N
6	23.7633	10.11	29.04	60.00	30.96	21.55	50.00	28.45	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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Report No.: ZR/2020/5003805

Page: 17 of 971

## 4.3 Duty Cycle

#### 4.3.1 Test Results

Test Mode	Test Mode TX Freq. [MHz]			
11A	Ant 1: CH149, CH157, CH165	96.28		
11N20	Ant 1: CH149, CH157, CH165	96.46		
11N40	Ant 1: CH151, CH159	95/58		
11AC20	Ant 1: CH149, CH157, CH165	96.47		
11AC40	Ant 1: CH151, CH159	94.71		
11AC80	Ant 1: CH155	92.21		
11A	Ant 2: CH149, CH157, CH165	96.71		
11N20	Ant 2: CH149, CH157, CH165	97.52		
11N40	Ant 2: CH151, CH159	95.15		
11AC20	Ant 2: CH149, CH157, CH165	97.36		
11AC40	Ant 2: CH151, CH159	95.61		
11AC80	Ant 2: CH155	92.64		
11A_CDD	Ant 1: CH149, CH157, CH165	97.32		
11N20_MIMO	Ant 1: CH149, CH157, CH165	96.19		
11N40_MIMO	Ant 1: CH151, CH159	95.14		
11AC20_MIMO	Ant 1: CH149, CH157, CH165	94.42		
11AC40_MIMO	Ant 1: CH151, CH159	91.66		
11AC80_MIMO	Ant 1: CH155	87.59		
11A_CDD	Ant 1: CH149, CH157, CH165	97.15		
11N20_MIMO	Ant 2: CH149, CH157, CH165	96.06		
11N40_MIMO	Ant 2: CH149, CH157, CH165	95.15		
11AC20_MIMO	Ant 2: CH151, CH159	96.69		
11AC40_MIMO	Ant 2: CH149, CH157, CH165	92.85		
11AC80_MIMO	Ant 2: CH151, CH159	86.91		



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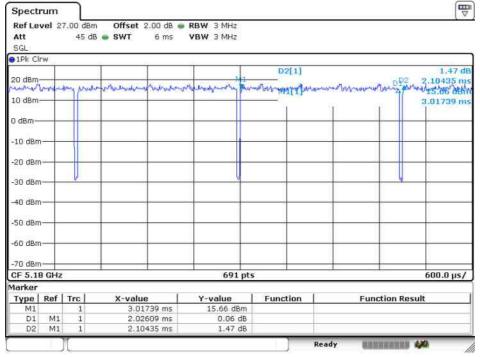
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Page: 18 of 971

#### 4.3.1 Test Plots

#### 4.3.1.1 ANT1

#### 4.3.1.1.1 11A



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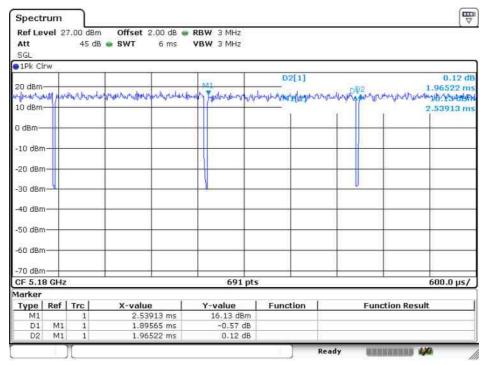
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#### 4.3.1.1.2 11N20



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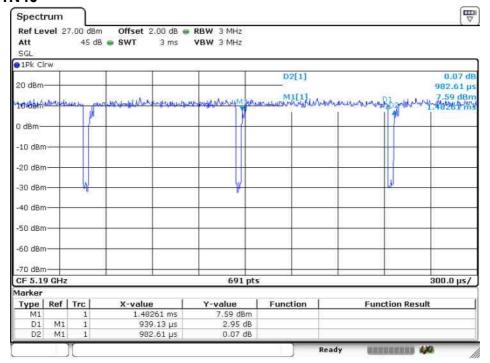
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#### 4.3.1.1.3 11N40



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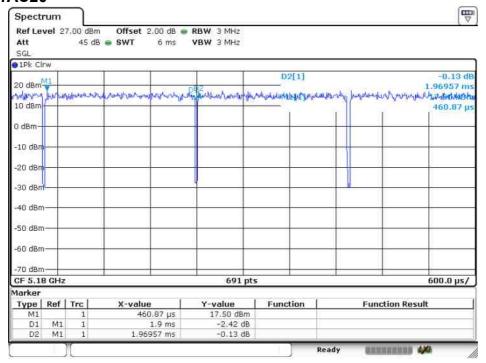
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#### 4.3.1.1.4 11AC20



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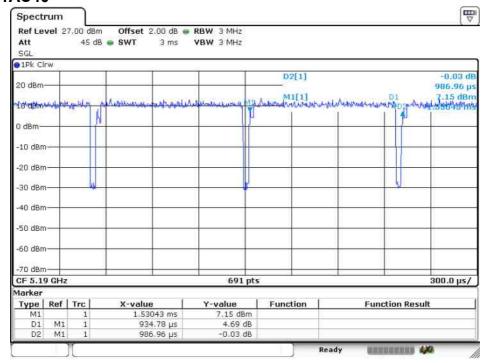
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#### 4.3.1.1.5 11AC40



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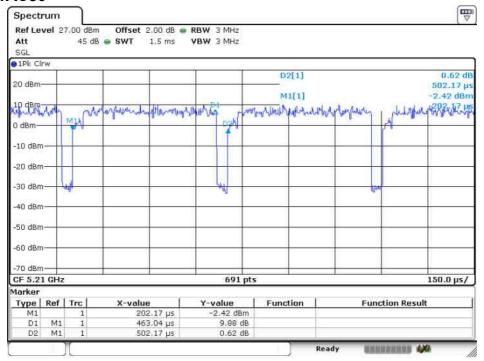
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23 of 971 Page:

#### 4.3.1.1.6 11AC80



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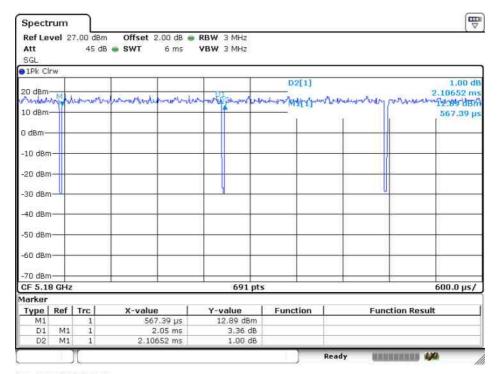
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Report No.: ZR/2020/5003805

Page: 24 of 971

### 4.3.1.1.7 11A\_CDD



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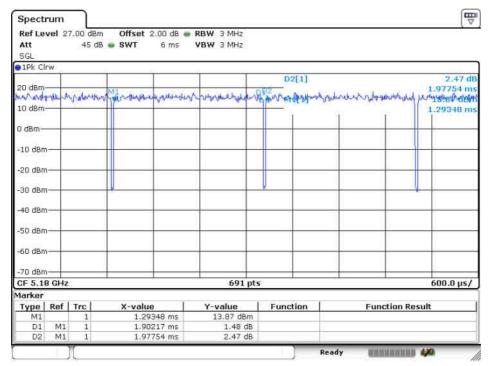
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Page: 25 of 971

### 4.3.1.1.8 11N20\_MIMO



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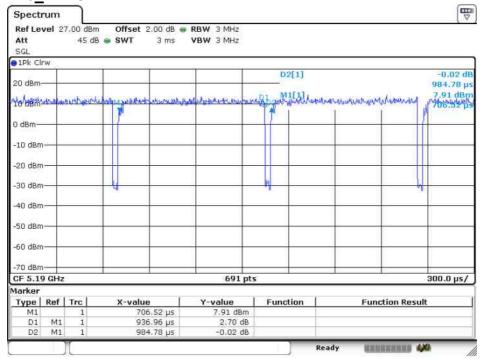
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Report No.: ZR/2020/5003805

Page: 26 of 971

#### 4.3.1.1.9 11N40 MIMO



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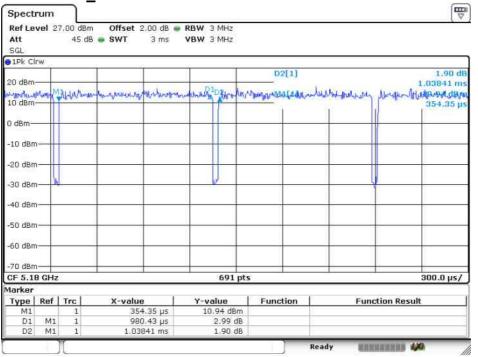
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Page: 27 of 971

### 4.3.1.1.10 11AC20\_MIMO



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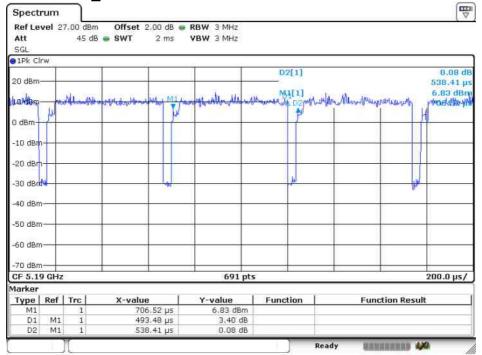
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### 4.3.1.1.11 11AC40\_MIMO



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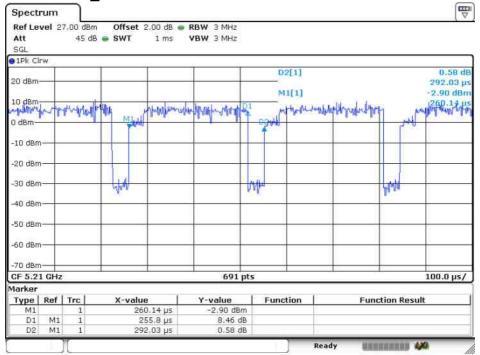
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Page: 29 of 971

### 4.3.1.1.12 11AC80\_MIMO



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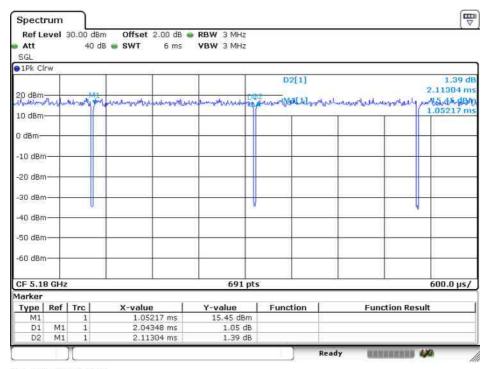


Report No.: ZR/2020/5003805

Page: 30 of 971

### 4.3.1.2 ANT2

#### 4.3.1.2.1 11A



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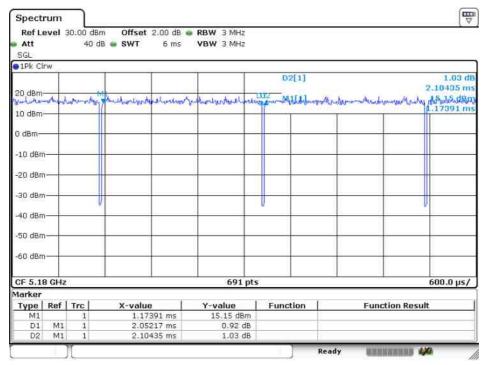
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#### 4.3.1.2.2 11N20



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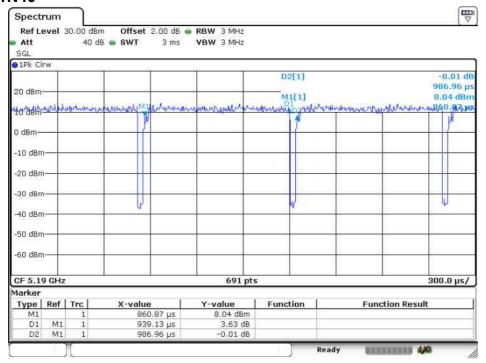
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#### 4.3.1.2.3 11N40



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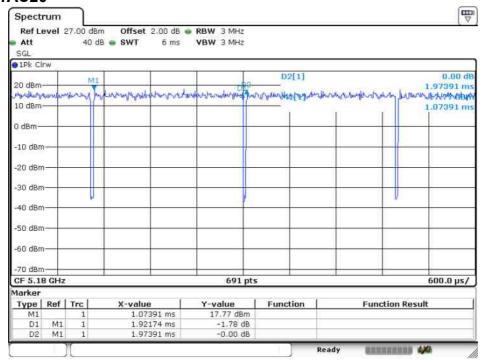
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#### 4.3.1.2.4 11AC20



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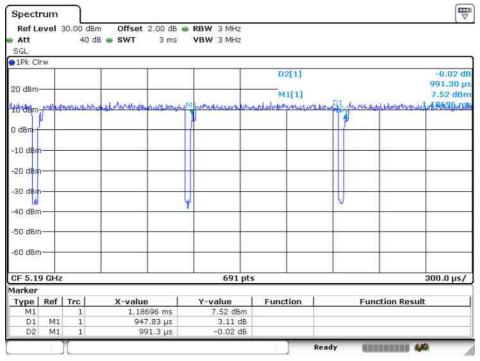
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#### 4.3.1.2.5 11AC40



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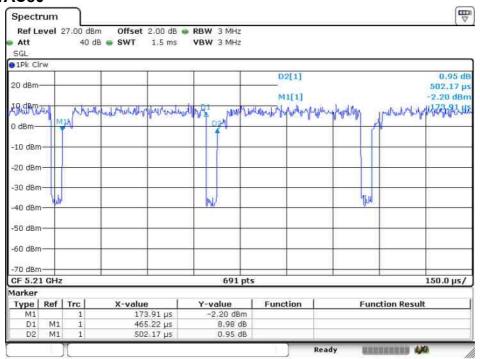
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35 of 971 Page:

#### 4.3.1.2.6 11AC80



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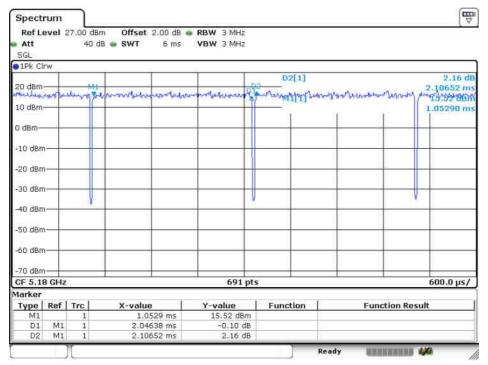
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### 4.3.1.2.7 11A\_CDD



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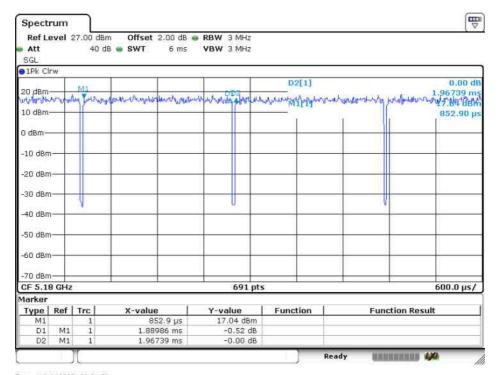
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#### 4.3.1.2.8 11N20\_MIMO



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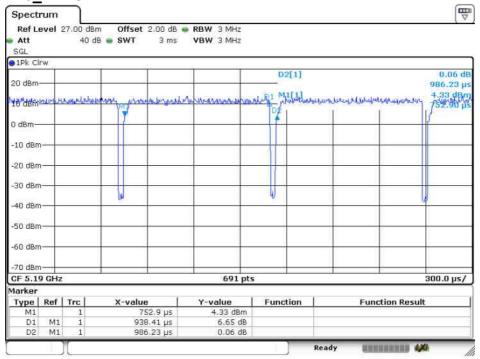
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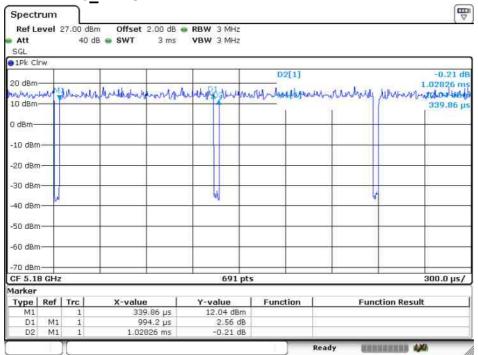
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Report No.: ZR/2020/5003805

Page: 39 of 971

#### 4.3.1.2.10 11AC20\_MIMO



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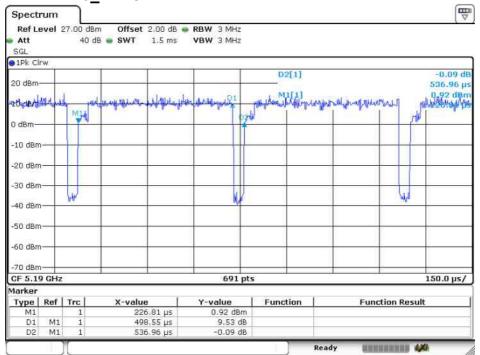
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Report No.: ZR/2020/5003805

Page: 40 of 971

#### 4.3.1.2.11 11AC40\_MIMO



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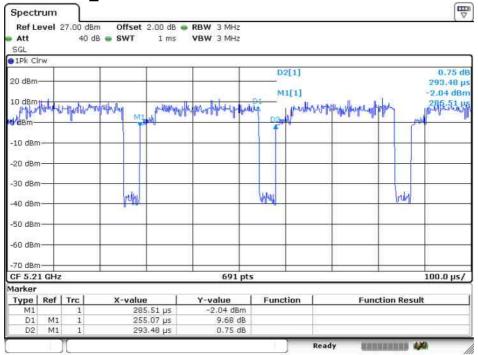
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Report No.: ZR/2020/5003805

Page: 41 of 971

#### 4.3.1.2.12 **11AC80 MIMO**



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Report No.: ZR/2020/5003805

42 of 971 Page:

#### **4.4 Conducted Output Power**

Test Requirement:	47 CFR Part 15 Sect	on 15.407(a)			
Test Method:	ANSI C63.10: 2013				
Test Setup:	N	E.U.T  on-Conducted Table			
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(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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Report No.: ZR/2020/5003805

43 of 971 Page:

Test	Test	Frequency	Meas. L	_evel (Cond.) [dBm]		Verdict
Mode	Channel	[MHz]	ANT 1	ANT 2	SUM	
	36	5180	17.47	17.17		PASS
	44	5220	17.17	17.17		PASS
	48	5240	17.1	17.17		PASS
	52	5260	16.56	16.69		PASS
	60	5300	16.71	16.88		PASS
44400	64	5320	16.81	16.98		PASS
11A20	100	5500	16.1	15.7		PASS
	116	5580	15.92	16.06		PASS
	140	5700	15.56	15.49		PASS
	149	5745	15.96	15.63		PASS
	157	5785	16.18	15.71		PASS
	165	5825	16.4	16.01		PASS
	36	5180	17.27	17.16	20.23	PASS
	44	5220	17.16	17.11	20.15	PASS
	48	5240	17.15	17.16	20.17	PASS
	52	5260	16.71	16.63	19.68	PASS
	60	5300	16.8	16.84	19.83	PASS
11A20	64	5320	16.92	16.91	19.93	PASS
CDD	100	5500	16.22	15.62	18.94	PASS
	116	5580	16.04	15.95	19.01	PASS
	140	5700	16.58	15.46	19.07	PASS
	149	5745	16.86	15.52	19.25	PASS
	157	5785	16.85	15.54	19.25	PASS
	165	5825	16.84	15.96	19.43	PASS
	36	5180	16.86	16.69		PASS
	44	5220	17.15	16.64		PASS
	48	5240	17.38	16.71		PASS
	52	5260	16.82	16.06		PASS
11N20	60	5300	16.84	16.41		PASS
	64	5320	16.67	16.52		PASS
	100	5500	15.83	15.2		PASS
	116	5580	15.36	15.46		PASS
	140	5700	15.94	15.07		PASS



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Report No.: ZR/2020/5003805

Page: 44 of 971

	149	5745	16.11	14.88		PASS
	157	5785	16.55	14.97		PASS
	165	5825	16.56	15.33		PASS
	36	5180	16.77	16.74	19.77	PASS
	44	5220	16.56	16.72	19.65	PASS
	48	5240	16.64	16.81	19.74	PASS
	52	5260	16.17	16.14	19.17	PASS
	60	5300	16.23	16.48	19.37	PASS
11N20	64	5320	16.36	16.55	19.47	PASS
MIMO	100	5500	15.63	15.27	18.46	PASS
	116	5580	15.48	15.51	18.51	PASS
	140	5700	15.96	15.13	18.58	PASS
	149	5745	16.22	14.94	18.64	PASS
	157	5785	16.23	14.98	18.66	PASS
	165	5825	16.23	15.35	18.82	PASS
	38	5190	11.47	11.18		PASS
	46	5230	17.05	17.33		PASS
	54	5270	17.38	16.84		PASS
	62	5310	12.1	11.88		PASS
11N40	102	5510	12.45	12.61		PASS
	110	5550	15.83	15.84		PASS
	134	5670	16.04	15.46		PASS
	151	5755	16.58	15.56		PASS
	159	5795	16.94	15.68		PASS
	38	5190	10.75	11.46	14.13	PASS
	46	5230	17.09	17.29	20.20	PASS
	54	5270	16.83	16.8	19.83	PASS
11N40	62	5310	12.3	11.99	15.16	PASS
MIMO	102	5510	12.55	12.73	15.65	PASS
	134	5670	16.11	15.46	18.81	PASS
	151	5755	16.7	15.57	19.18	PASS
	159	5795	16.82	15.72	19.32	PASS
	36	5180	15.72	16.12		PASS
	44	5220	15.9	16.11		PASS
	48	5240	16.06	16.1		PASS
	52	5260	16.29	15.59		PASS
	60	5300	16.11	15.89		PASS
11AC20	64	5320	15.96	15.97		PASS
	100	5500	15.14	14.63		PASS
	116	5580	14.66	14.93		PASS
	140	5700	15.17	14.45		PASS
	149	5745	15.38	14.37		PASS
	157	5785	15.78	14.46		PASS



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Report No.: ZR/2020/5003805

45 of 971 Page:

	165	5825	15.9	14.85		PASS
	36	5180	16.31	16.23	19.28	PASS
	44	5220	16.2	16.23	19.23	PASS
	48	5240	16.19	16.3	19.26	PASS
	52	5260	15.82	15.7	18.77	PASS
	60	5300	15.84	16.05	18.96	PASS
11AC20	64	5320	15.97	16.11	19.05	PASS
MIMO	100	5500	15.17	14.76	17.98	PASS
	116	5580	14.94	15.03	18.00	PASS
	140	5700	15.49	14.52	18.04	PASS
	149	5745	15.68	14.46	18.12	PASS
	157	5785	15.9	14.54	18.28	PASS
	165	5825	15.85	14.86	18.39	PASS
	38	5190	11.96	11.87		PASS
	46	5230	16.61	16.84		PASS
	54	5270	16.95	16.33		PASS
	62	5310	12.54	12.36		PASS
11AC40	102	5510	12.16	11.55		PASS
	110	5550	15.36	15.33		PASS
	134	5670	15.62	14.94		PASS
	151	5755	16.13	14.95		PASS
	159	5795	16.49	15.13		PASS
	38	5190	12.25	12.17	15.22	PASS
	46	5230	16.77	16.94	19.87	PASS
	54	5270	16.41	16.44	19.44	PASS
11AC40	62	5310	12.82	12.65	15.75	PASS
MIMO	102	5510	11.66	11.74	14.71	PASS
	110	5550	15.7	15.43	18.58	PASS
	134	5670	15.11	15.01	18.07	PASS
	151	5755	16.35	15	18.74	PASS
	159	5795	16.01	15.16	18.62	PASS
	42	5210	11.61	11.19		PASS
	58	5290	11.74	11.36		PASS
11AC80	106	5530	11.61	11.27		PASS
	122	5610	15.12	15.42		PASS
	155	5775	15.86	14.79		PASS
	42	5210	11.6	11.83	14.73	PASS
11AC80	58	5290	12.01	11.21	14.64	PASS
MIMO	106	5530	11.34	10.04	13.75	PASS
	122	5610	15.62	15.67	18.66	PASS



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Report No.: ZR/2020/5003805

46 of 971 Page:

155	5775	15.68	14.98	18.35	PASS



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Report No.: ZR/2020/5003805

47 of 971 Page:

#### 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				

Test	Test	Frequency	26dB Emission Bandwidth [MHz]		Verdict
Mode	ode Channel	[MHz]	ANT 1	ANT 2	
	36	5180	24.45	24.69	PASS
	44	5220	24.45	24.84	PASS
11A20	48	5240	24.48	24.39	PASS
TIAZU	52	5260	24.39	24.33	PASS
	60	5300	24.42	24.27	PASS
	64	5320	24.69	23.73	PASS



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Report No.: ZR/2020/5003805

48 of 971 Page:

	100	5500	23.97	22.98	PASS
	116	5580	24.66	23.4	PASS
	140	5700	24.36	23.07	PASS
	36	5180	25.17	23.01	PASS
	44	5220	25.47	24.27	PASS
	48	5240	25.2	23.46	PASS
	52	5260	23.61	24.57	PASS
11A20 CDD	60	5300	25.26	23.4	PASS
022	64	5320	24.9	23.94	PASS
	100	5500	24.33	23.43	PASS
	116	5580	26.16	23.4	PASS
	140	5700	25.86	23.22	PASS
	36	5180	25.89	24.69	PASS
	44	5220	25.05	25.02	PASS
	48	5240	25.23	25.08	PASS
	52	5260	24.96	24.78	PASS
11N20	60	5300	25.11	25.26	PASS
	64	5320	25.89	24.99	PASS
	100	5500	24.69	25.02	PASS
	116	5580	24.93	24.78	PASS
	140	5700	25.05	24.84	PASS
	36	5180	26.28	25.29	PASS
	44	5220	25.89	25.44	PASS
	48	5240	25.65	26.16	PASS
4.41100	52	5260	25.74	25.2	PASS
11N20 MIMO	60	5300	25.71	24.51	PASS
IVIIIVIO	64	5320	25.89	24.33	PASS
	100	5500	25.38	24.15	PASS
	116	5580	26.34	24.15	PASS
	140	5700	24.18	24.48	PASS
	38	5190	42.12	42	PASS
	46	5230	42.06	42.06	PASS
	54	5270	42.18	42	PASS
11N40	62	5310	42.18	41.7	PASS
	102	5510	42.24	41.4	PASS
	110	5550	42.24	41.46	PASS
	134	5670	41.82	41.4	PASS
11N40	38	5190	42.36	41.82	PASS
MIMO	46	5230	42.36	41.58	PASS



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Report No.: ZR/2020/5003805

49 of 971 Page:

	54	5270	42.36	41.52	PASS
	62	5310	42.24	41.46	PASS
	102	5510	41.82	41.52	PASS
	110	5550	41.7	41.58	PASS
	134	5670	41.94	41.52	PASS
	36	5180	25.11	25.11	PASS
	44	5220	25.11	25.38	PASS
	48	5240	25.5	24.99	PASS
	52	5260	25.41	24.33	PASS
11AC20	60	5300	25.2	24.21	PASS
	64	5320	24.9	24.75	PASS
	100	5500	25.05	24.3	PASS
	116	5580	24.12	23.91	PASS
	140	5700	24.36	24.42	PASS
	36	5180	25.77	25.38	PASS
	44	5220	27.03	24.12	PASS
	48	5240	25.98	24.15	PASS
	52	5260	25.98	24.06	PASS
11AC20 MIMO	60	5300	25.98	25.14	PASS
IVIIIVIO	64	5320	25.68	24	PASS
	100	5500	25.23	24.42	PASS
	116	5580	24.39	23.94	PASS
	140	5700	26.22	24.15	PASS
	38	5190	42.24	42.06	PASS
	46	5230	42.3	42.06	PASS
	54	5270	42	42.3	PASS
11AC40	62	5310	41.88	41.64	PASS
	102	5510	42.3	41.7	PASS
	110	5550	41.46	41.34	PASS
	134	5670	41.94	41.58	PASS
	38	5190	41.46	41.46	PASS
	46	5230	41.58	41.46	PASS
111010	54	5270	41.46	41.46	PASS
11AC40 MIMO	62	5310	41.4	41.4	PASS
IVIIIVIO	102	5510	41.28	41.52	PASS
	110	5550	41.4	41.22	PASS
	134	5670	41.4	41.46	PASS
	42	5210	100.32	85.92	PASS
11AC80	58	5290	91.68	83.68	PASS
114000	106	5530	98.72	83.52	PASS
	122	5610	90.88	83.84	PASS



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Report No.: ZR/2020/5003805

50 of 971 Page:

	42	5210	84.32	83.04	PASS
11AC80	58	5290	84.8	83.2	PASS
MIMO	106	5530	82.88	84.0	PASS
	122	5610	82.72	83.04	PASS



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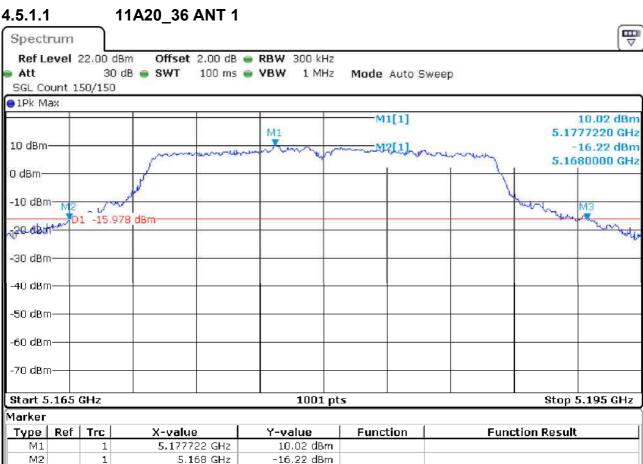


Report No.: ZR/2020/5003805

Page: 51 of 971

#### 4.5.1 Plots for 26dB Emission Bandwidth

5.19245 GHz



-16.32 dBm

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1

МЗ



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Page: 52 of 971



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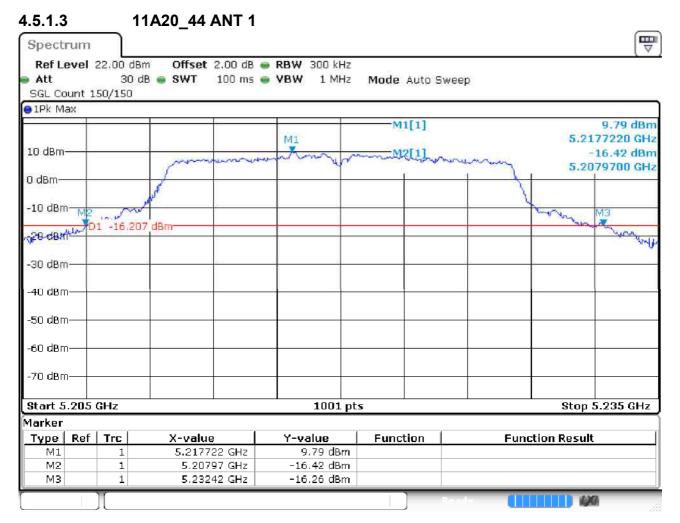
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Page: 53 of 971



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Report No.: ZR/2020/5003805

Page: 54 of 971



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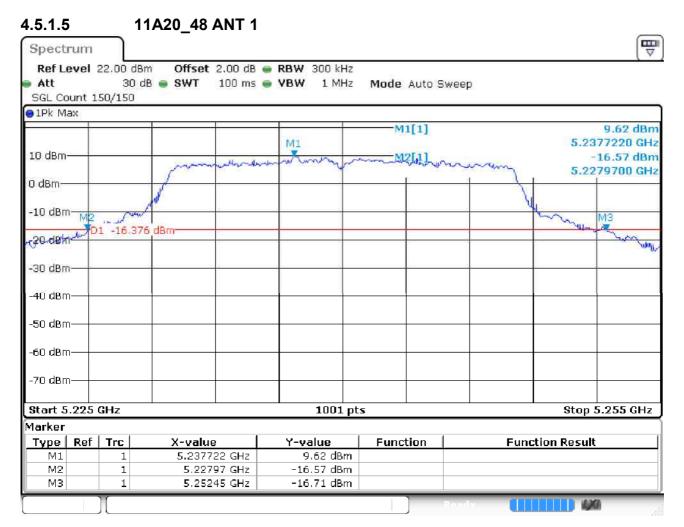
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Report No.: ZR/2020/5003805

Page: 55 of 971



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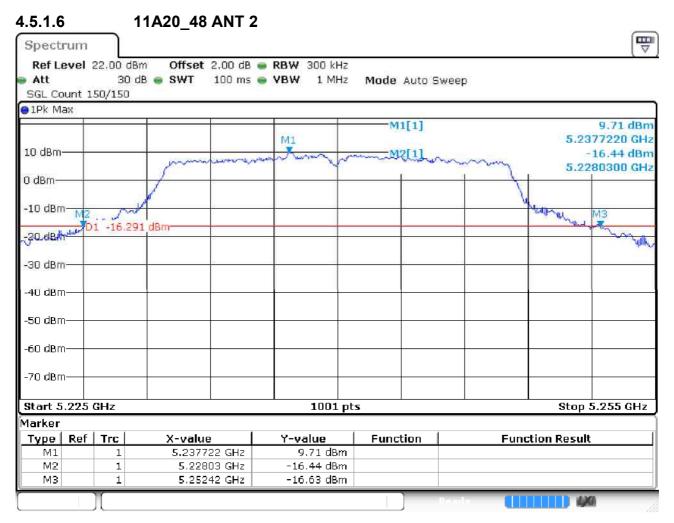
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Page: 56 of 971



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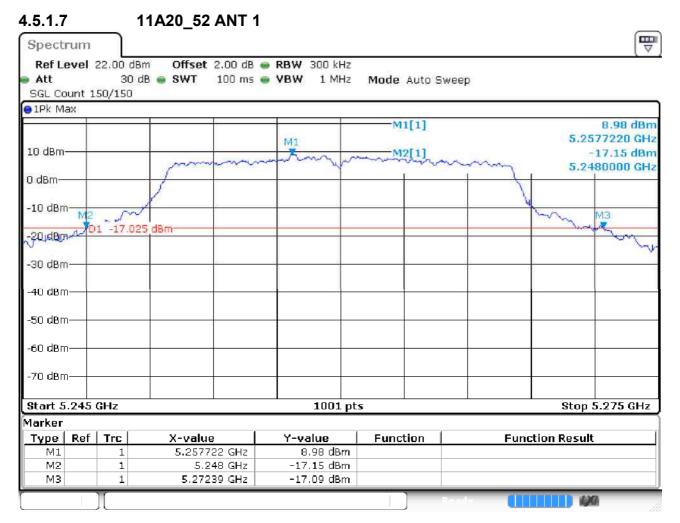
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Report No.: ZR/2020/5003805

Page: 57 of 971



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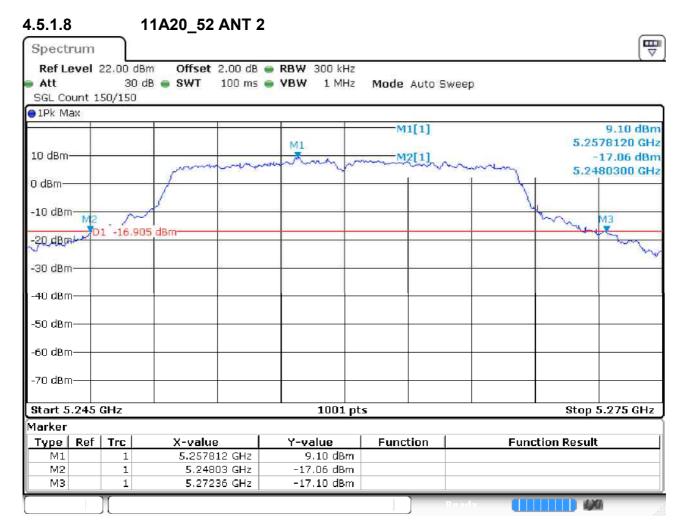
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Page: 58 of 971



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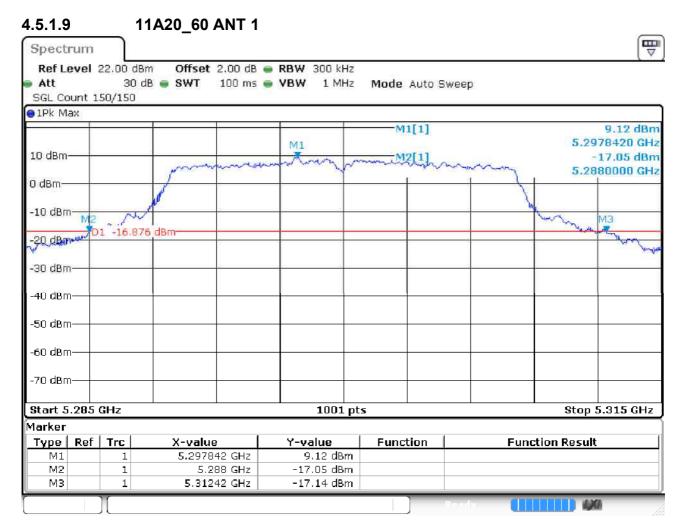
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Report No.: ZR/2020/5003805

Page: 59 of 971



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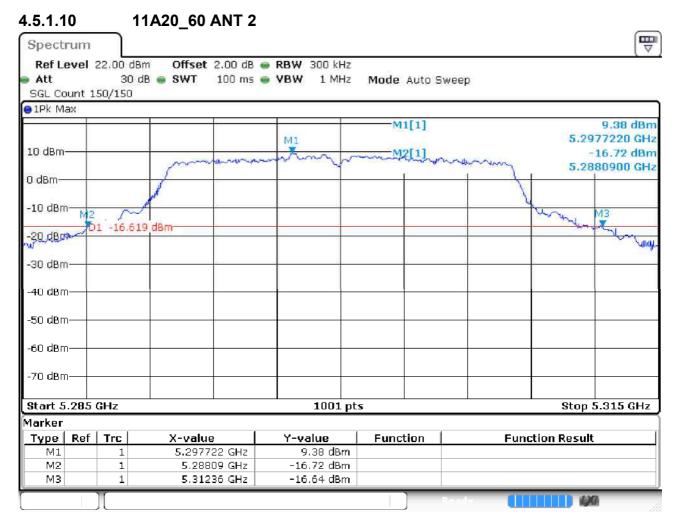
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Page: 60 of 971



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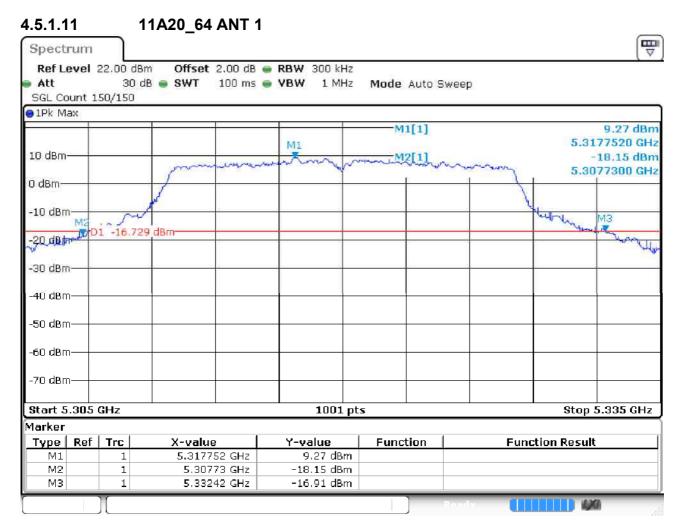
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Page: 61 of 971



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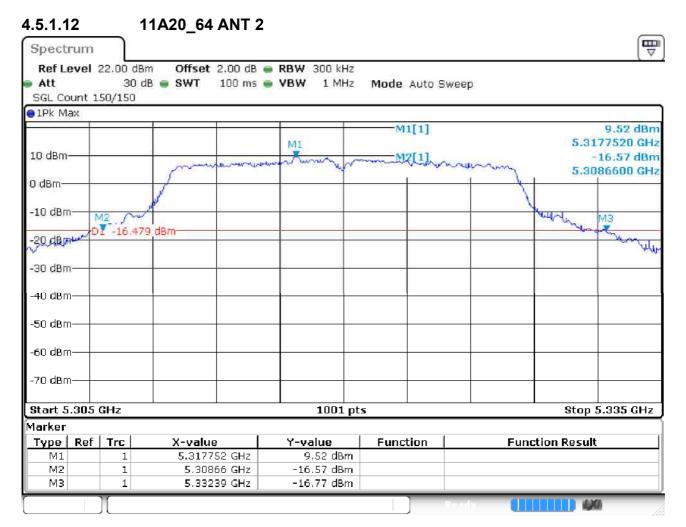
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Page: 62 of 971



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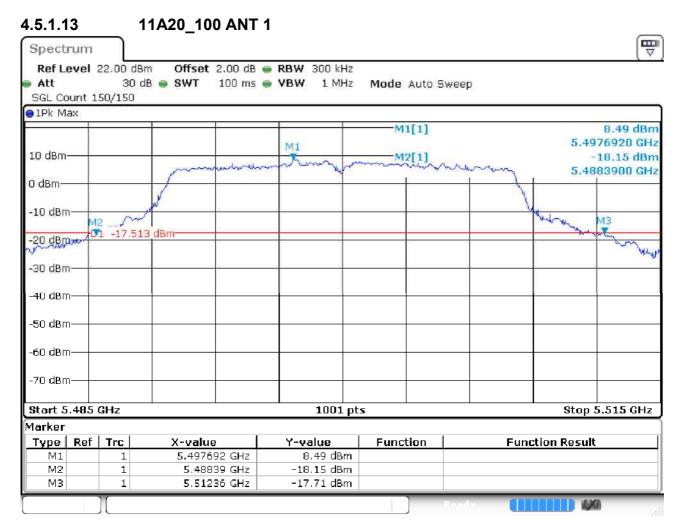
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Page: 63 of 971



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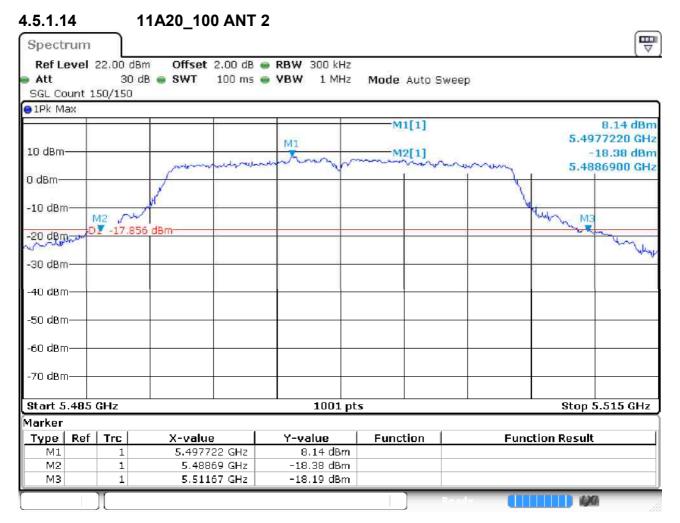
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Report No.: ZR/2020/5003805

Page: 64 of 971



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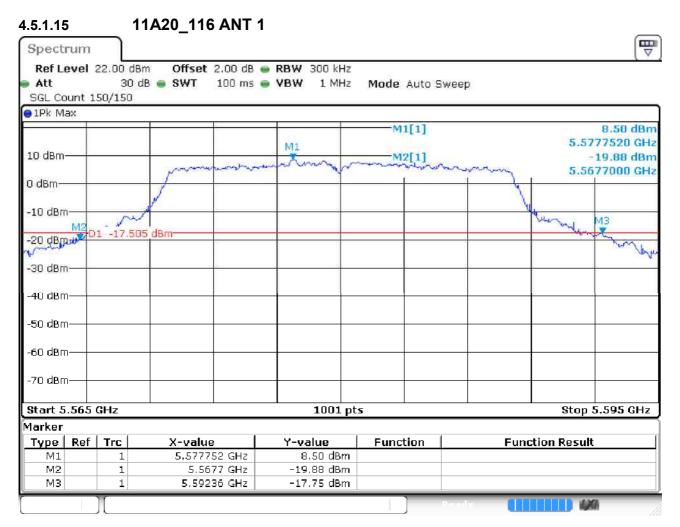
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Report No.: ZR/2020/5003805

Page: 65 of 971



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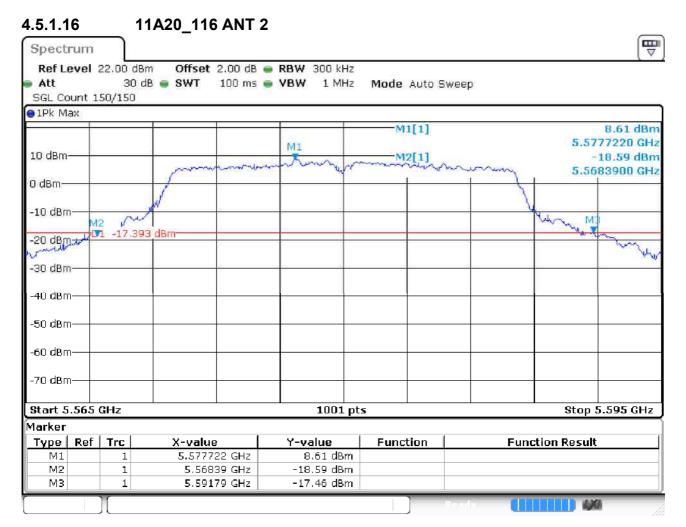
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Report No.: ZR/2020/5003805

Page: 66 of 971



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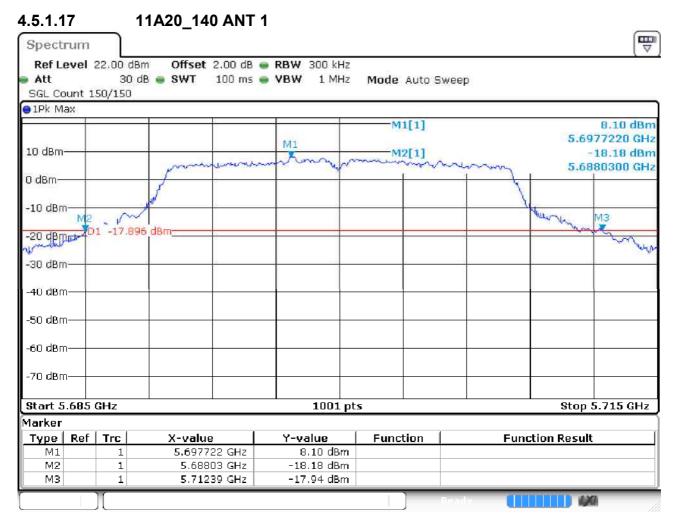
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Report No.: ZR/2020/5003805

Page: 67 of 971



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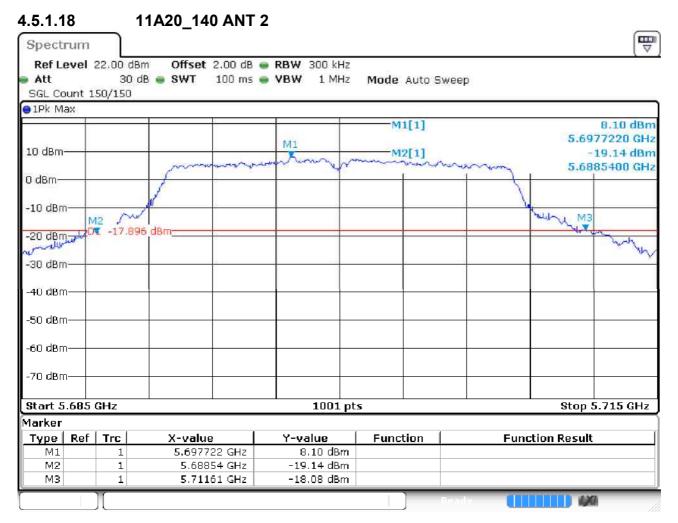
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Report No.: ZR/2020/5003805

Page: 68 of 971



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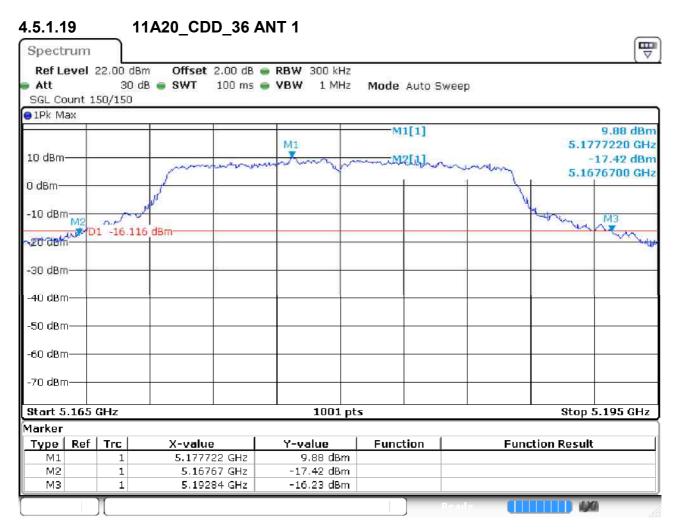
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Report No.: ZR/2020/5003805

Page: 69 of 971



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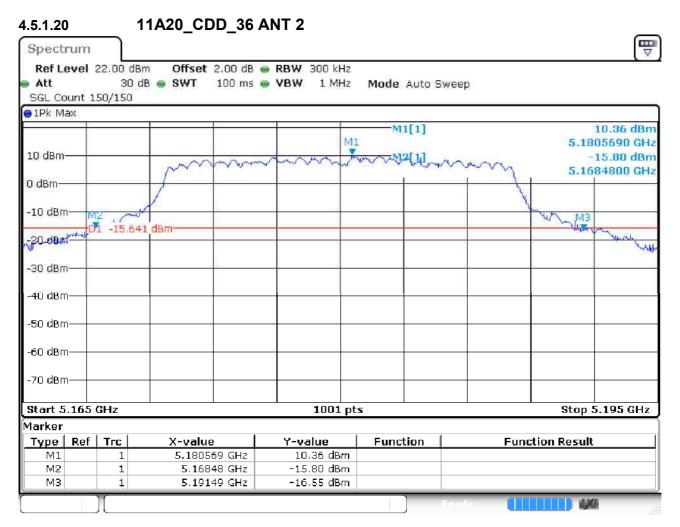
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Report No.: ZR/2020/5003805

Page: 70 of 971



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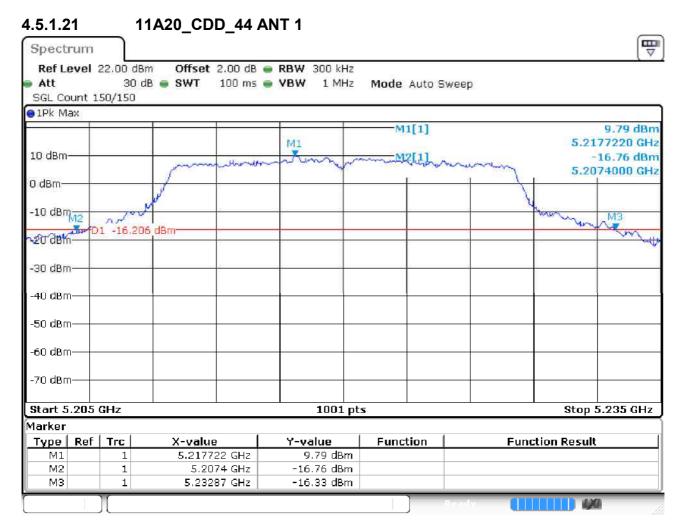
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Report No.: ZR/2020/5003805

Page: 71 of 971



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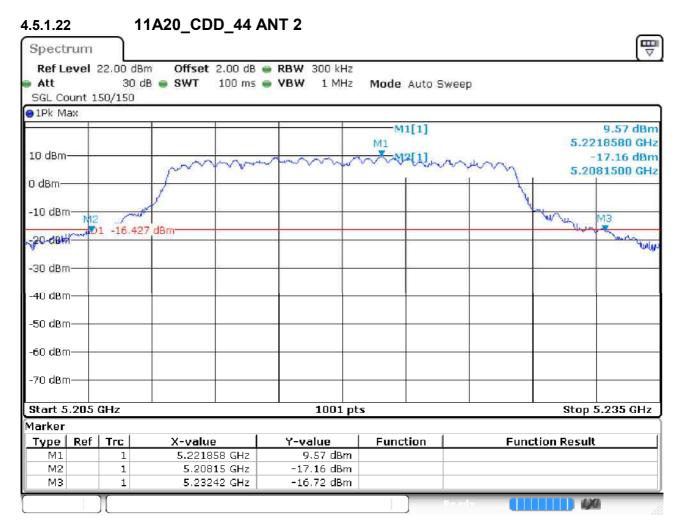
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Report No.: ZR/2020/5003805

Page: 72 of 971



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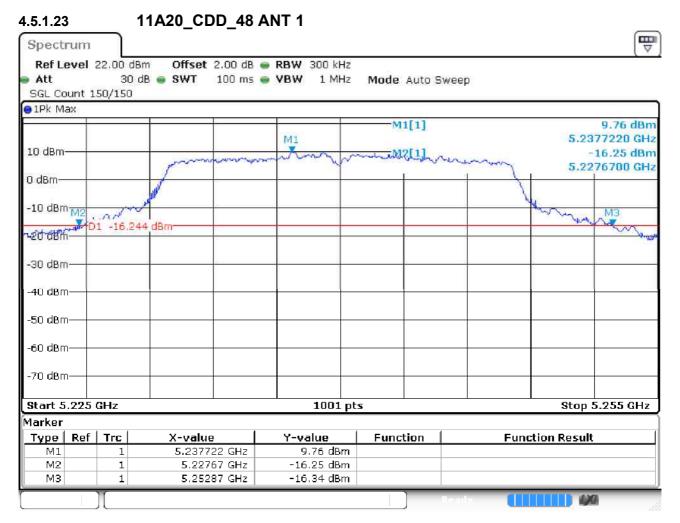
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Report No.: ZR/2020/5003805

Page: 73 of 971



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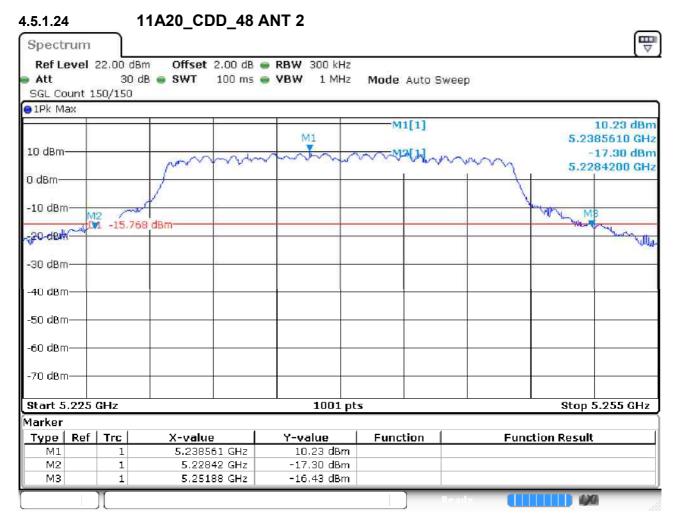
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Page: 74 of 971



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Report No.: ZR/2020/5003805

Page: 75 of 971



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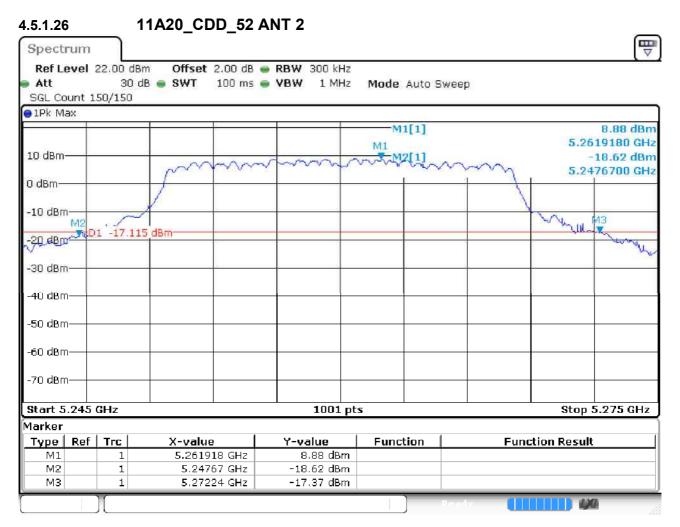
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Report No.: ZR/2020/5003805

Page: 76 of 971



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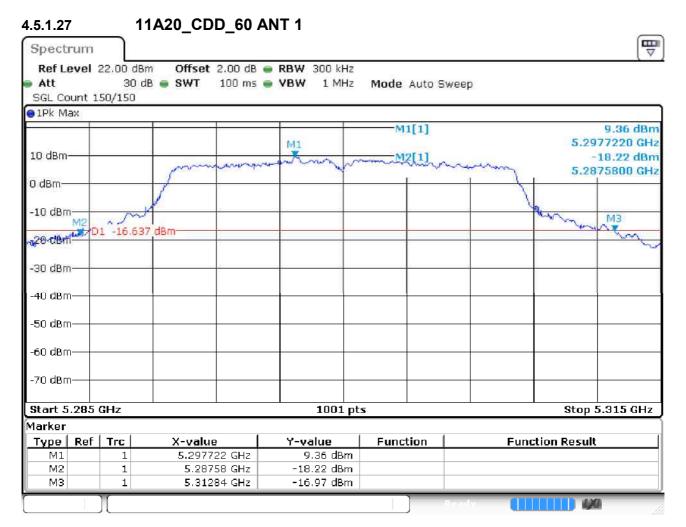
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Report No.: ZR/2020/5003805

Page: 77 of 971



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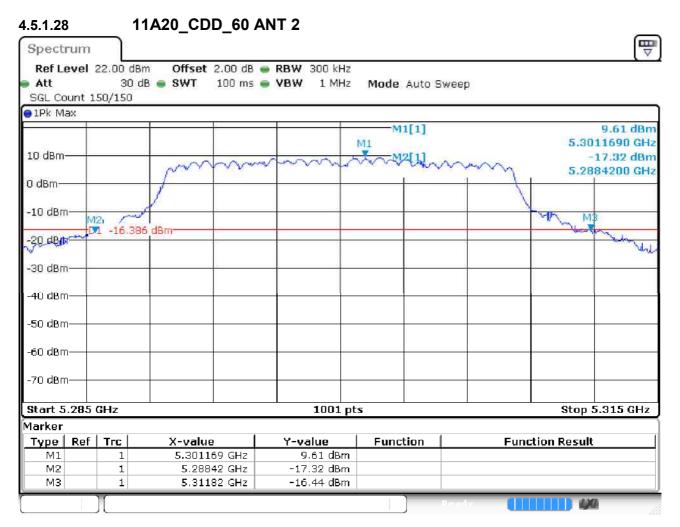
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Report No.: ZR/2020/5003805

Page: 78 of 971



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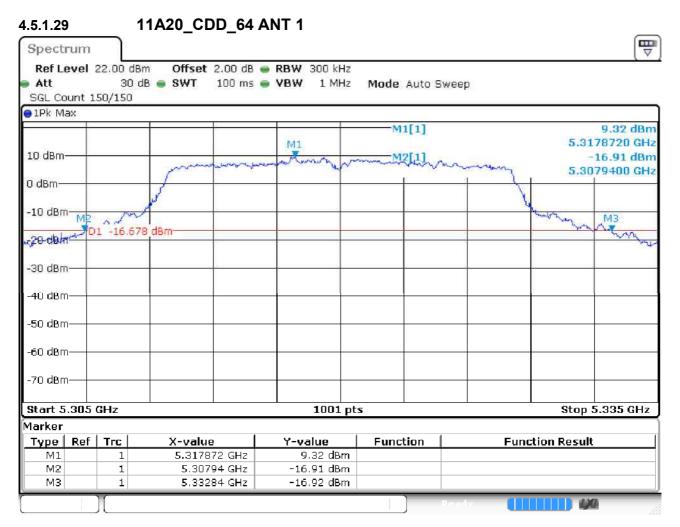
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Report No.: ZR/2020/5003805

Page: 79 of 971



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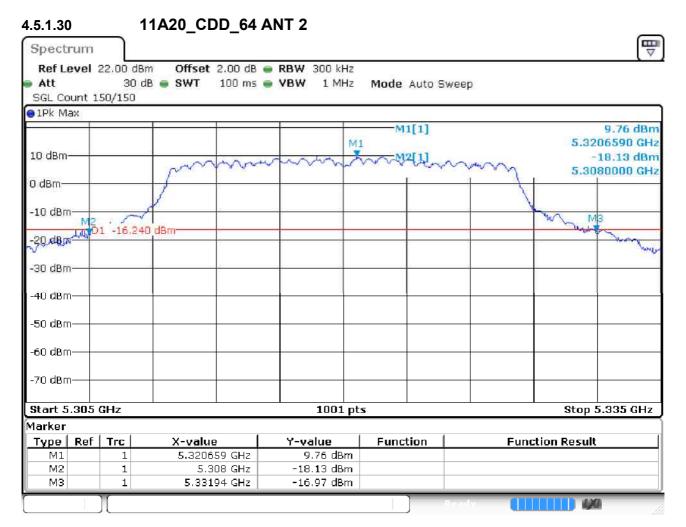
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Report No.: ZR/2020/5003805

Page: 80 of 971



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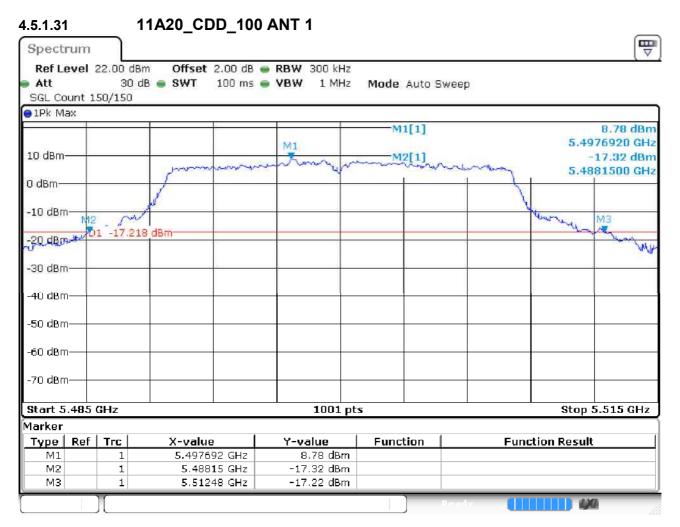
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Report No.: ZR/2020/5003805

Page: 81 of 971



Date: 4.JUN.2020 12:14:13



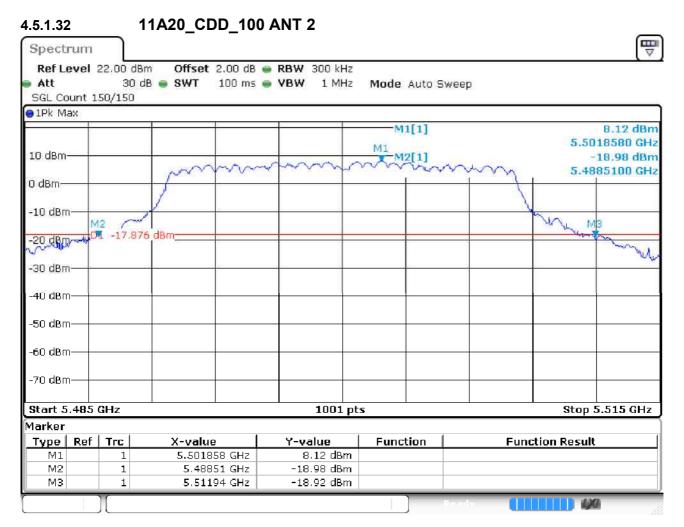
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Report No.: ZR/2020/5003805

Page: 82 of 971



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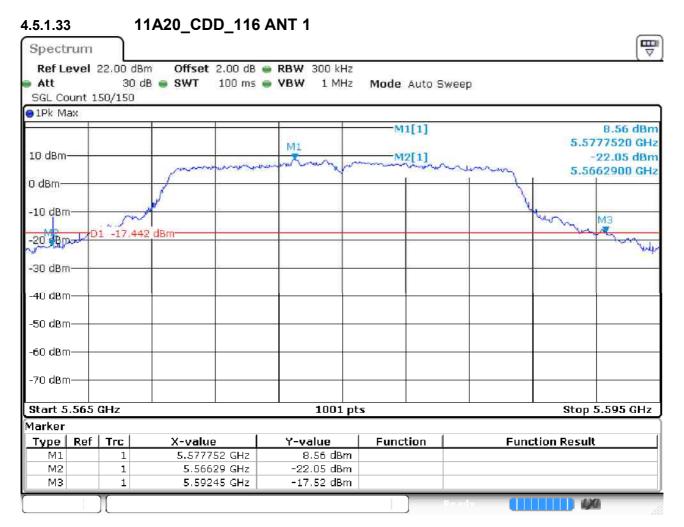
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Report No.: ZR/2020/5003805

Page: 83 of 971



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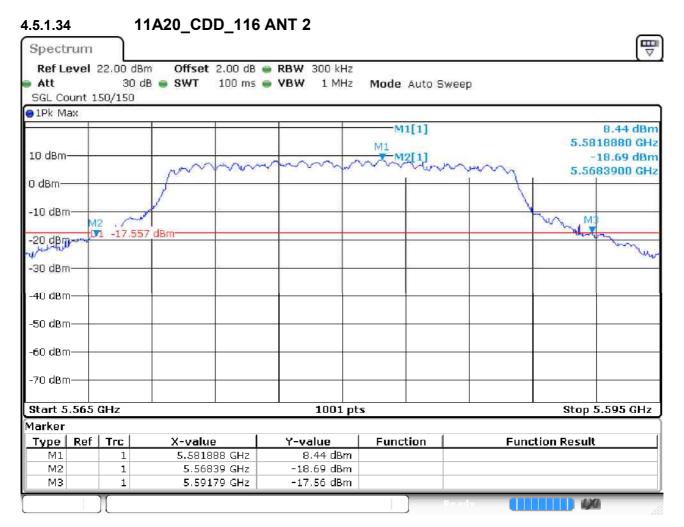
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Report No.: ZR/2020/5003805

Page: 84 of 971



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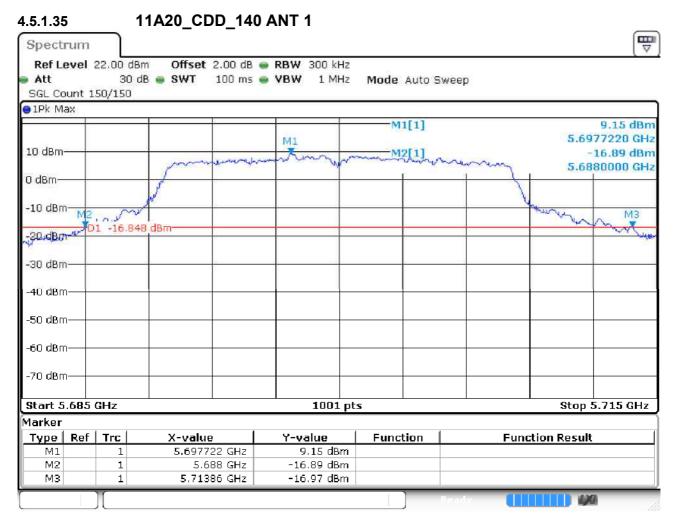
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Report No.: ZR/2020/5003805

Page: 85 of 971



Date: 4.JUN.2020 12:16:51



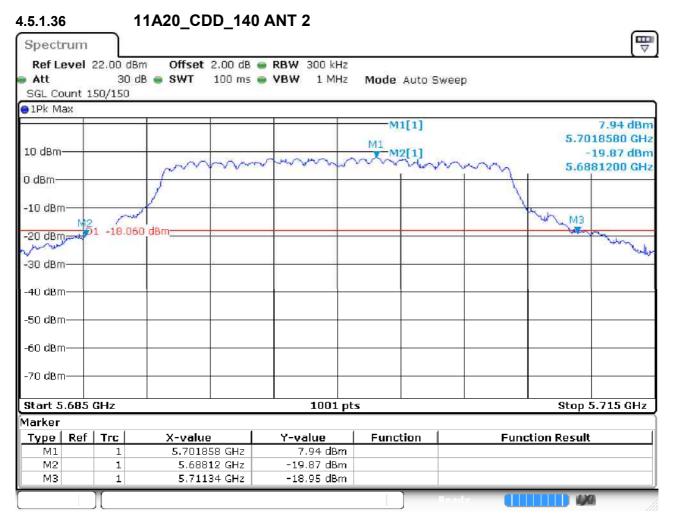
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Report No.: ZR/2020/5003805

Page: 86 of 971



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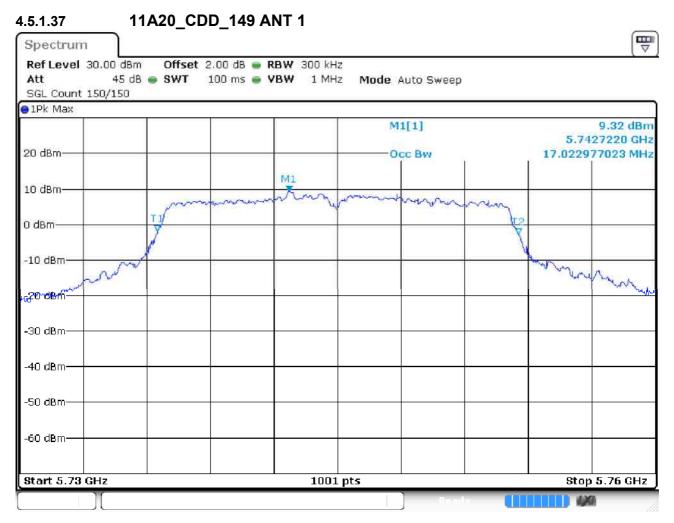
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Report No.: ZR/2020/5003805

Page: 87 of 971



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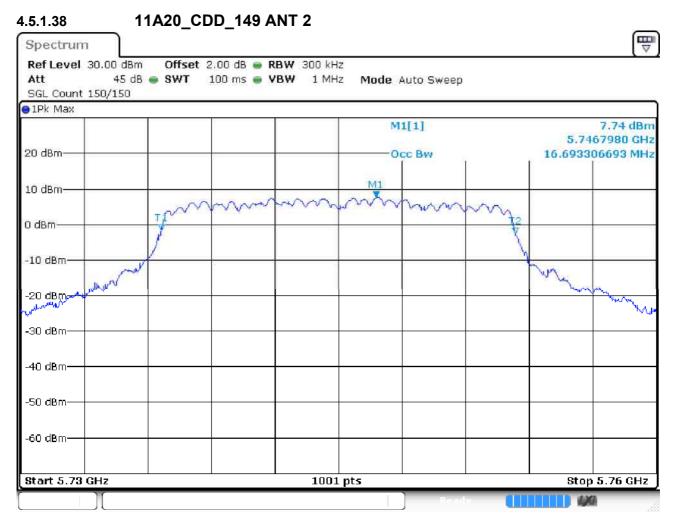
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Report No.: ZR/2020/5003805

Page: 88 of 971



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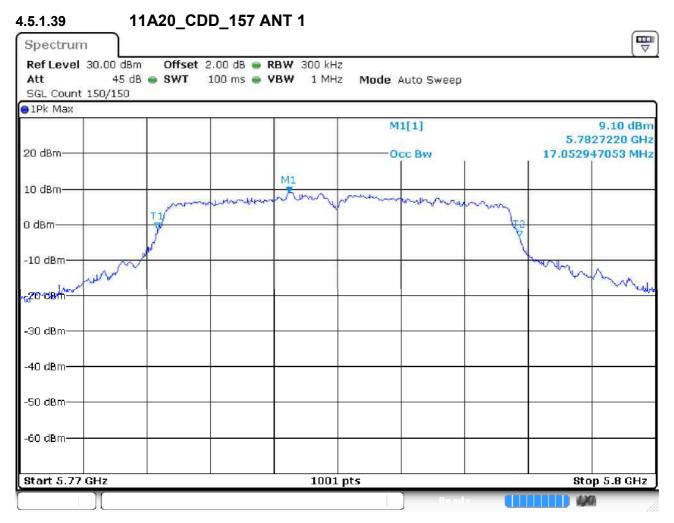
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Report No.: ZR/2020/5003805

Page: 89 of 971



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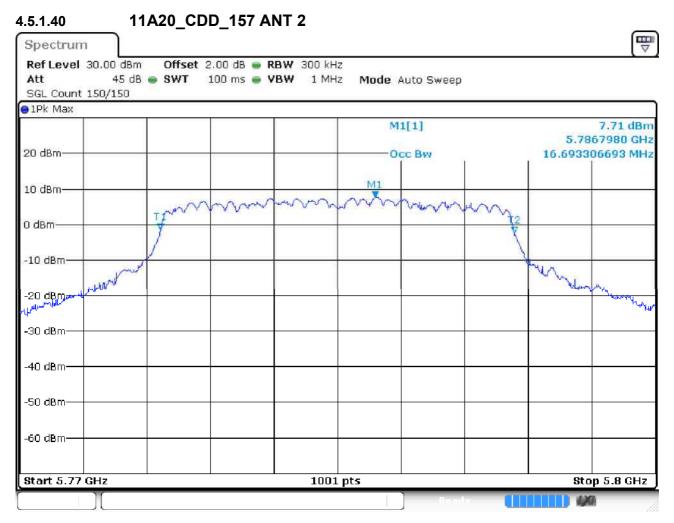
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Report No.: ZR/2020/5003805

Page: 90 of 971



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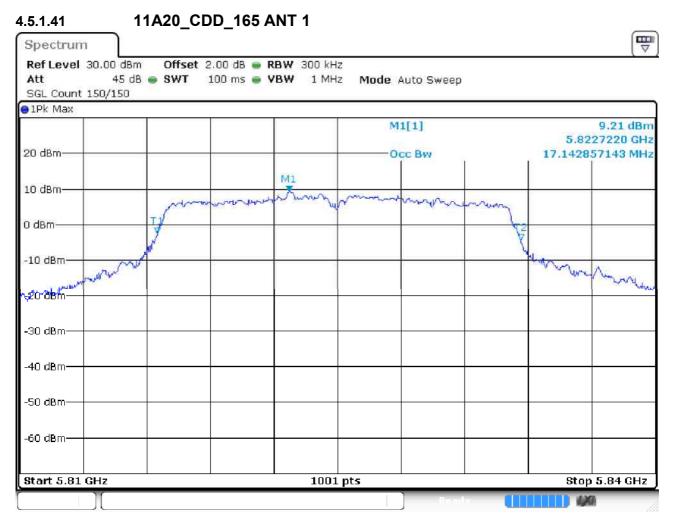
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Report No.: ZR/2020/5003805

Page: 91 of 971



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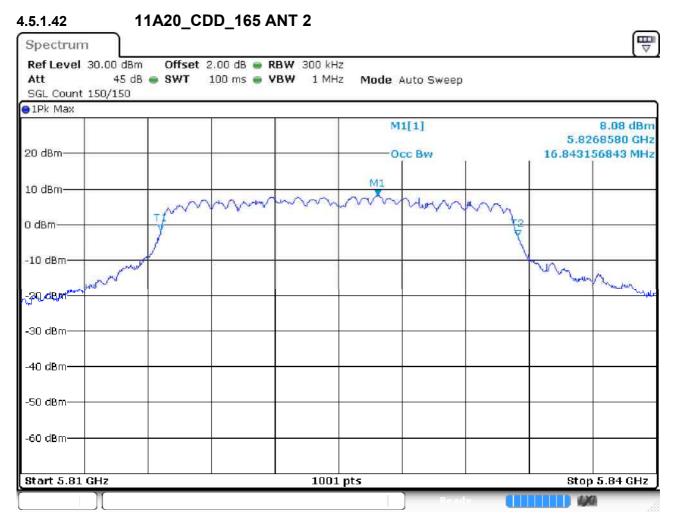
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Report No.: ZR/2020/5003805

Page: 92 of 971



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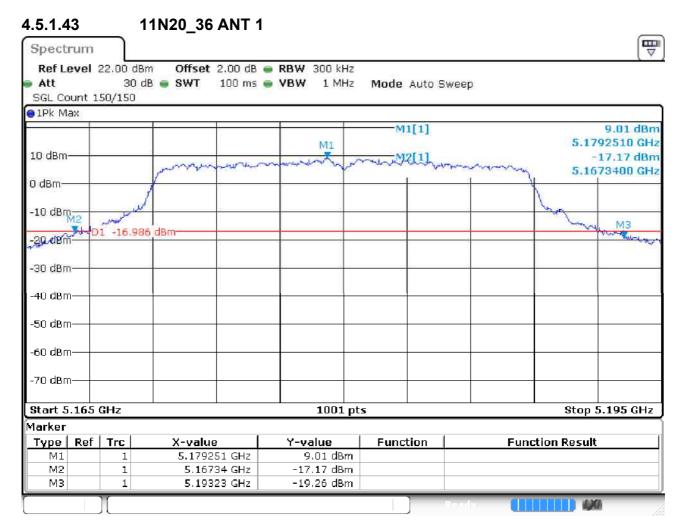
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Report No.: ZR/2020/5003805

Page: 93 of 971



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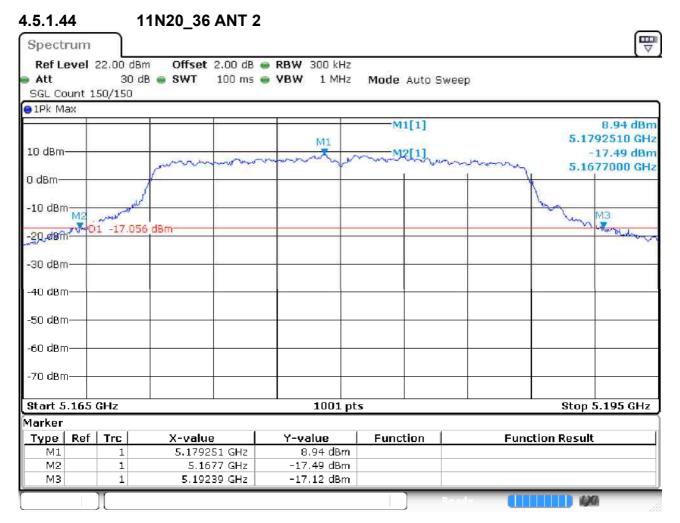
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Report No.: ZR/2020/5003805

Page: 94 of 971



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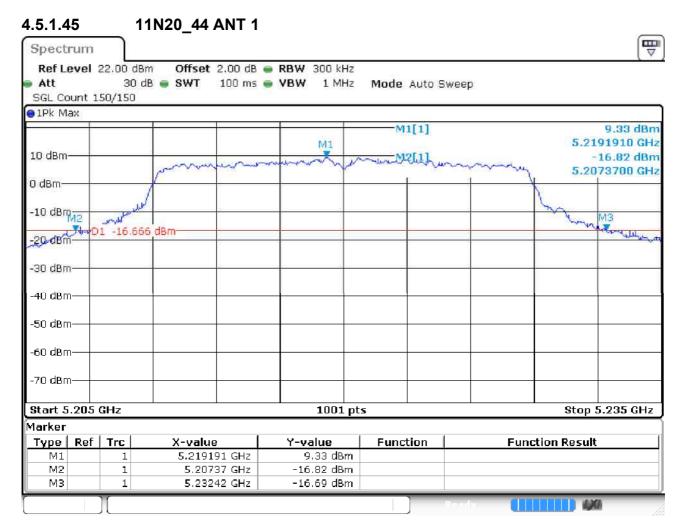
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Report No.: ZR/2020/5003805

Page: 95 of 971



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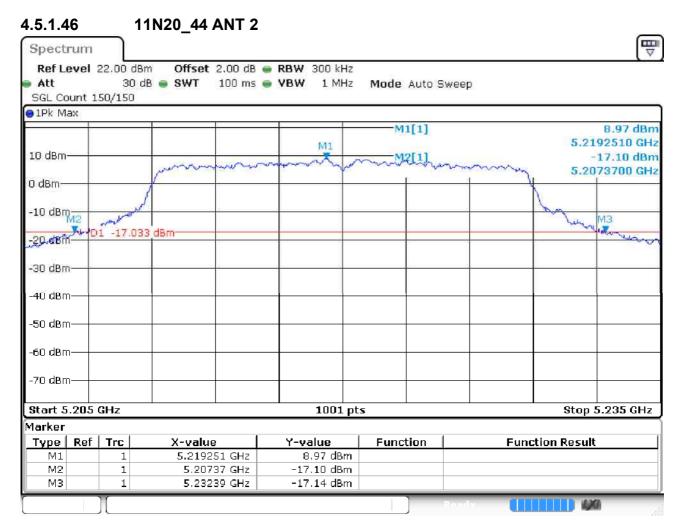
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Report No.: ZR/2020/5003805

Page: 96 of 971



Date: 4.JUN.2020 04:29:07



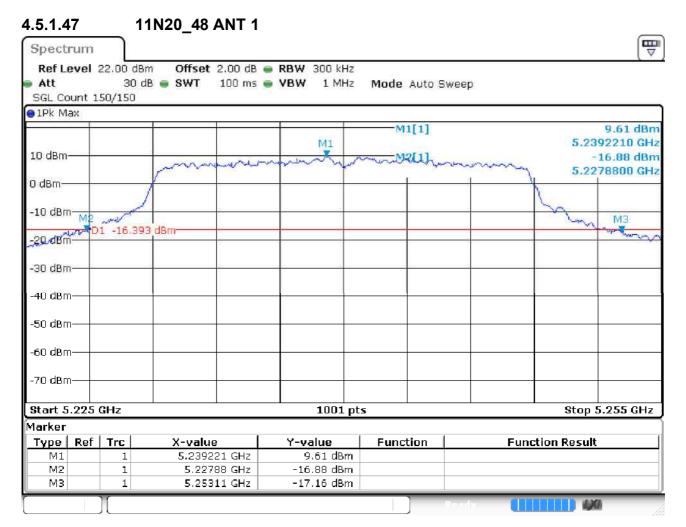
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Report No.: ZR/2020/5003805

Page: 97 of 971



Date: 5.JUN.2020 02:07:36



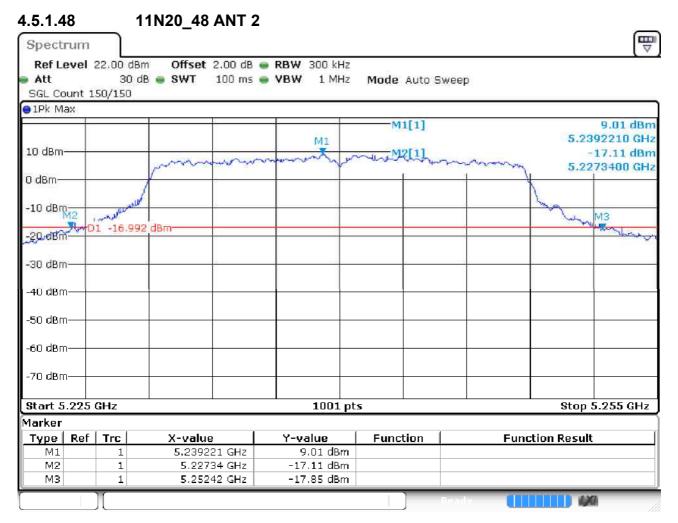
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Report No.: ZR/2020/5003805

Page: 98 of 971



Date: 4.JUN.2020 04:30:24



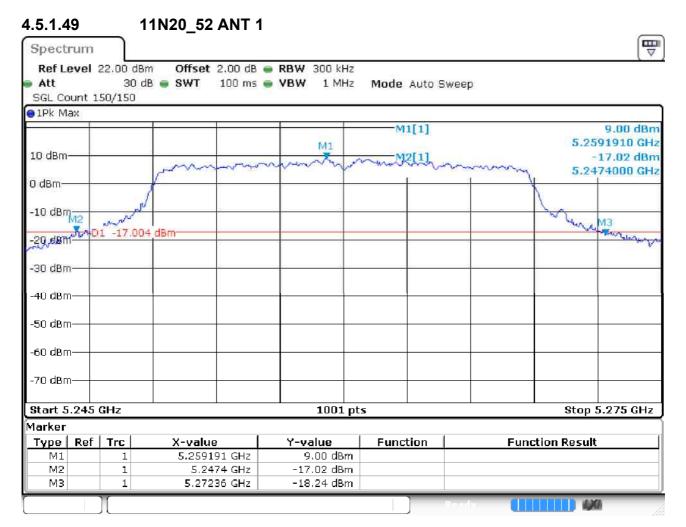
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Report No.: ZR/2020/5003805

Page: 99 of 971



Date: 5.JUN.2020 02:10:47



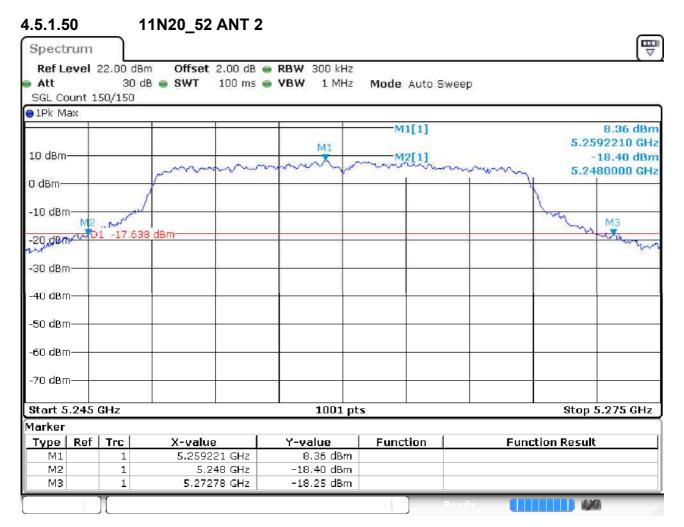
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Report No.: ZR/2020/5003805

Page: 100 of 971



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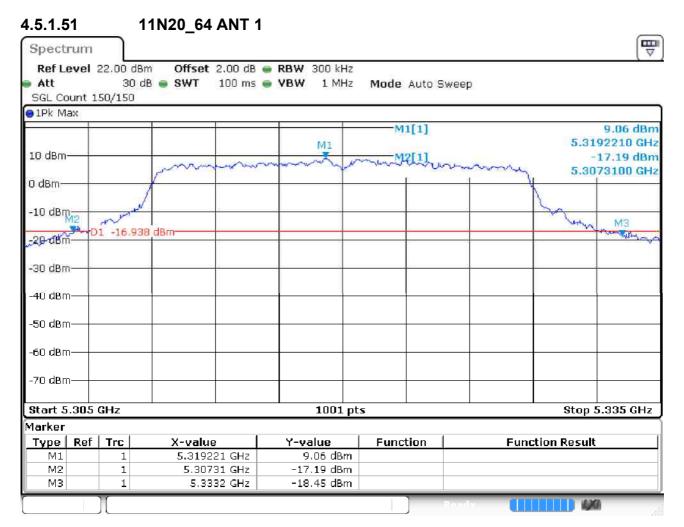
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Report No.: ZR/2020/5003805

Page: 101 of 971



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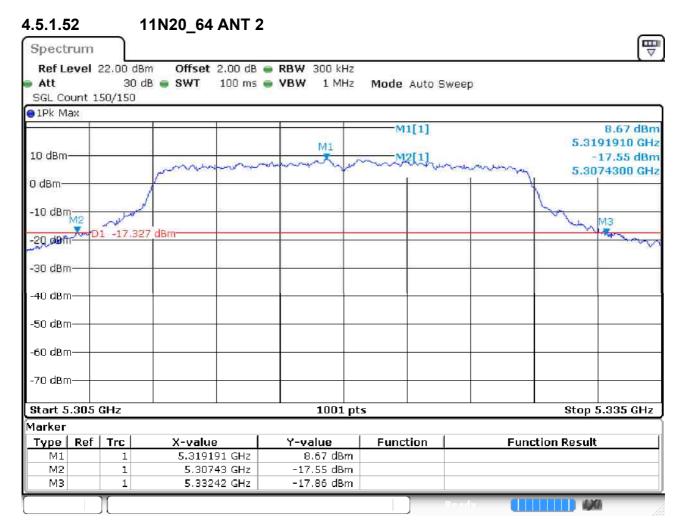
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Report No.: ZR/2020/5003805

Page: 102 of 971



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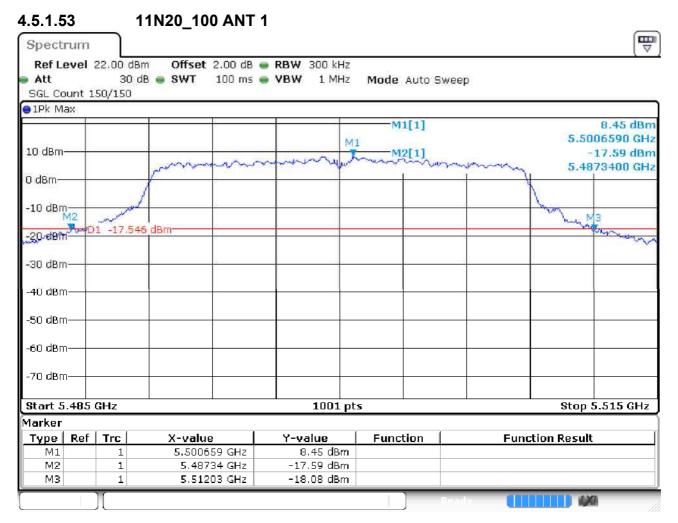
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Report No.: ZR/2020/5003805

Page: 103 of 971



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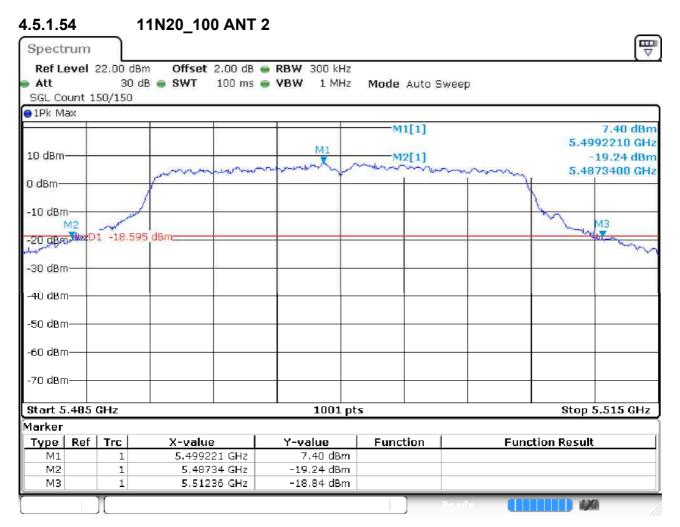
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Report No.: ZR/2020/5003805

Page: 104 of 971



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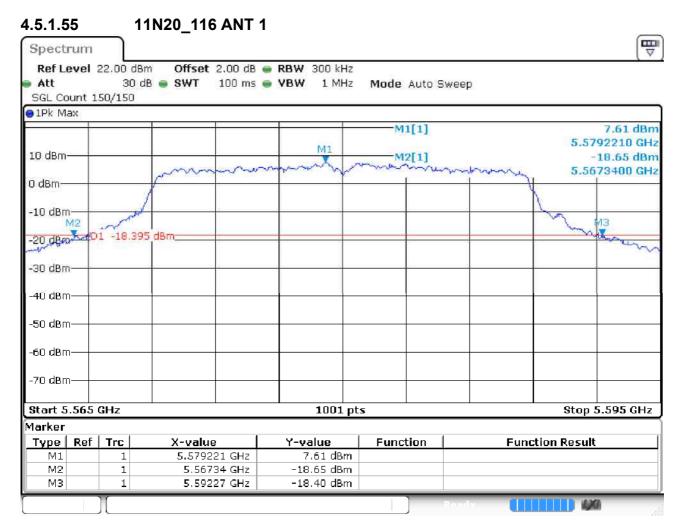
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Report No.: ZR/2020/5003805

Page: 105 of 971



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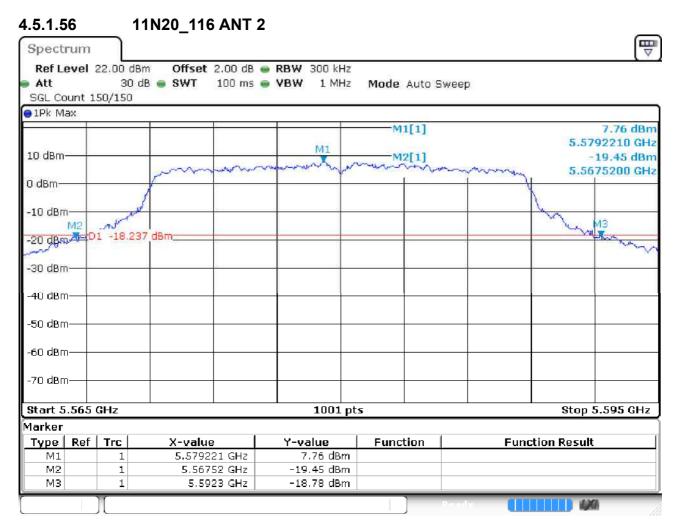
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Report No.: ZR/2020/5003805

Page: 106 of 971



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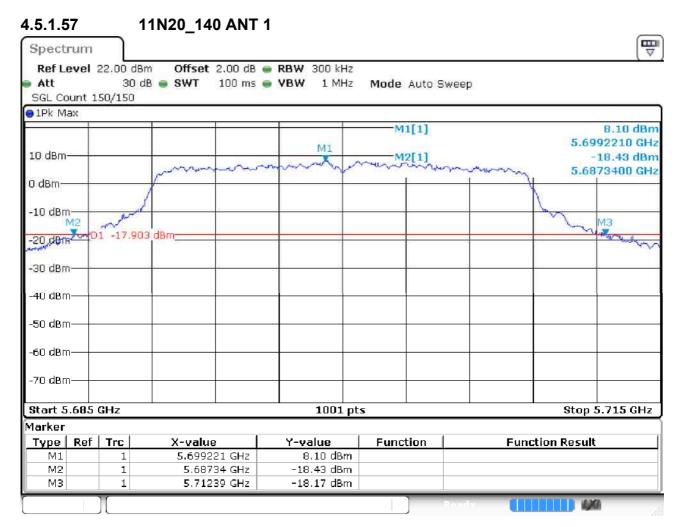
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Report No.: ZR/2020/5003805

Page: 107 of 971



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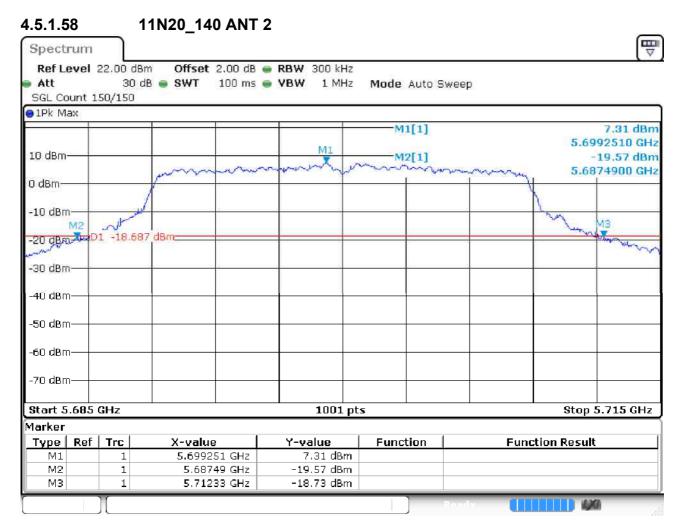
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Report No.: ZR/2020/5003805

Page: 108 of 971



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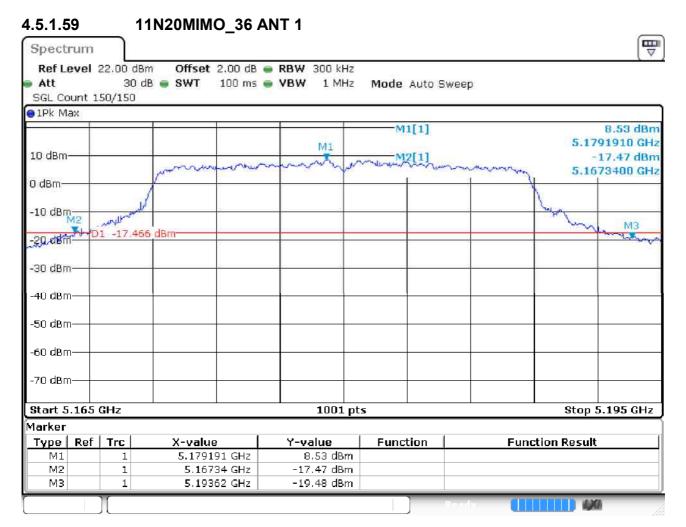
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Report No.: ZR/2020/5003805

Page: 109 of 971



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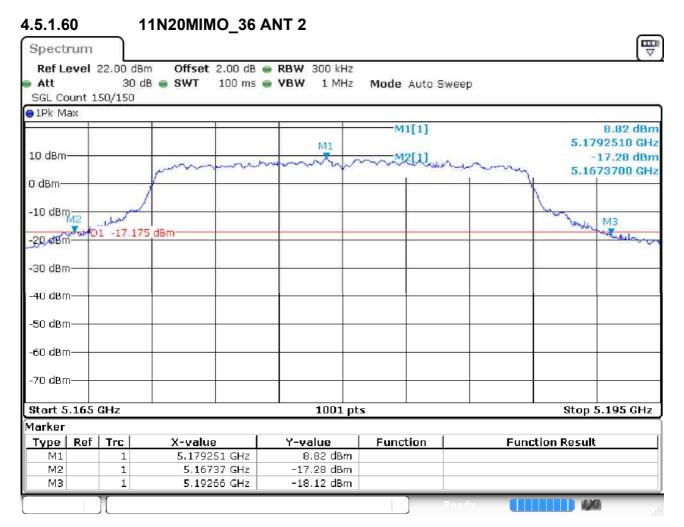
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Report No.: ZR/2020/5003805

Page: 110 of 971



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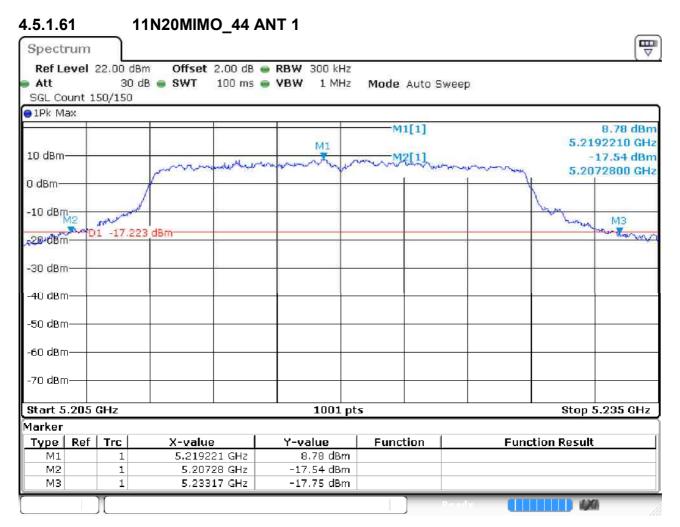
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Report No.: ZR/2020/5003805

Page: 111 of 971



Date: 4.JUN.2020 12:24:23



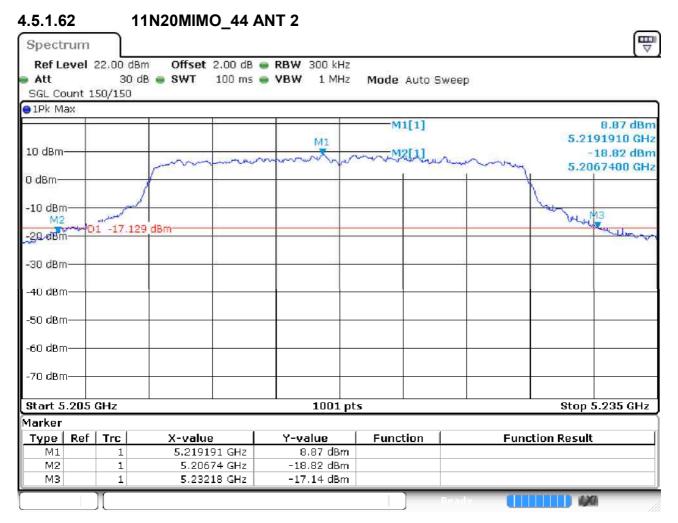
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Report No.: ZR/2020/5003805

Page: 112 of 971



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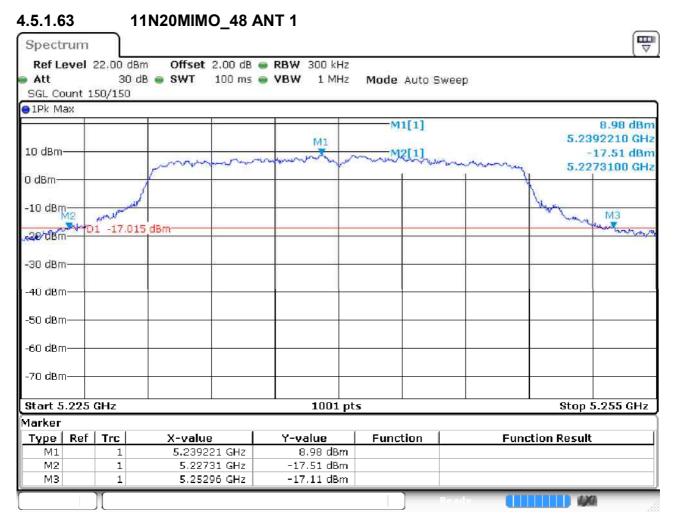
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Report No.: ZR/2020/5003805

Page: 113 of 971



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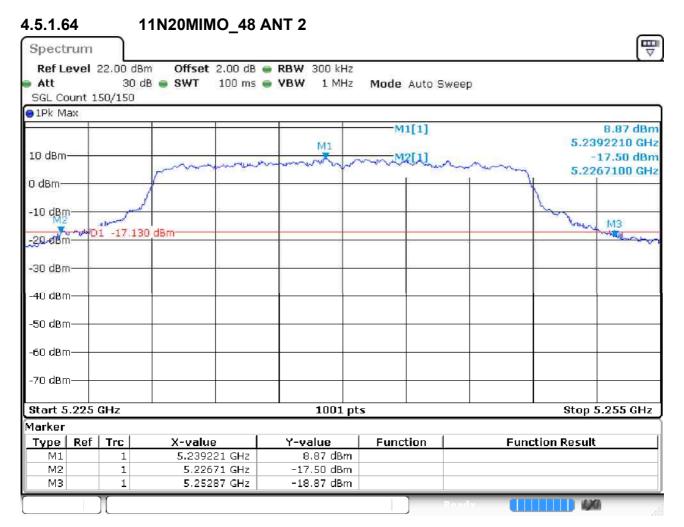
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Report No.: ZR/2020/5003805

Page: 114 of 971



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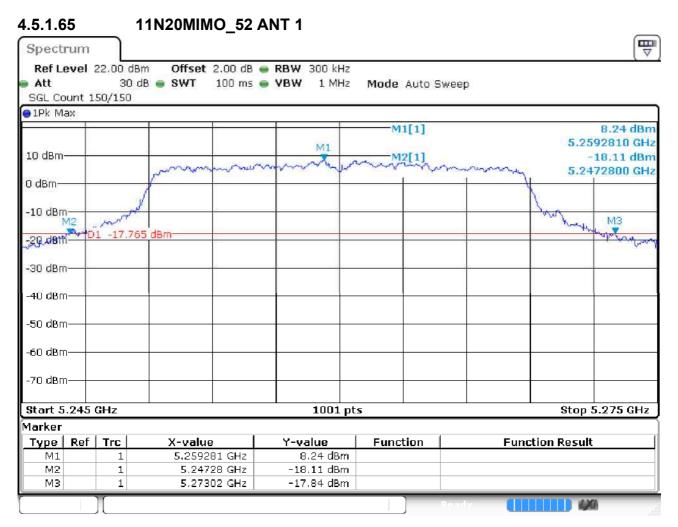
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Report No.: ZR/2020/5003805

Page: 115 of 971



Date: 4.JUN.2020 12:27:31



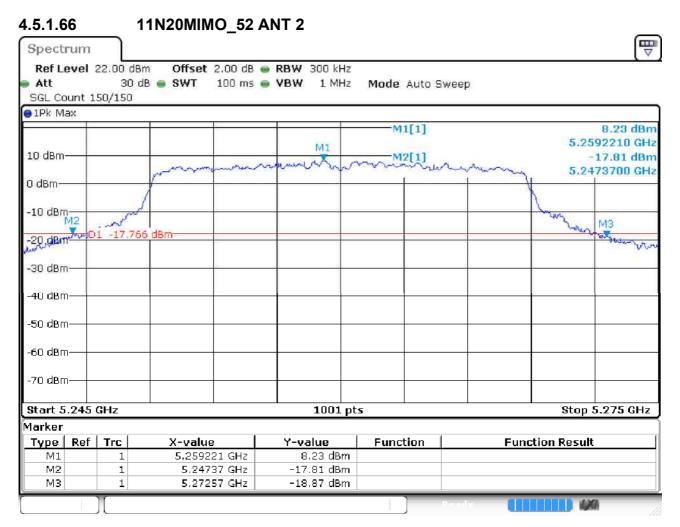
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Report No.: ZR/2020/5003805

Page: 116 of 971



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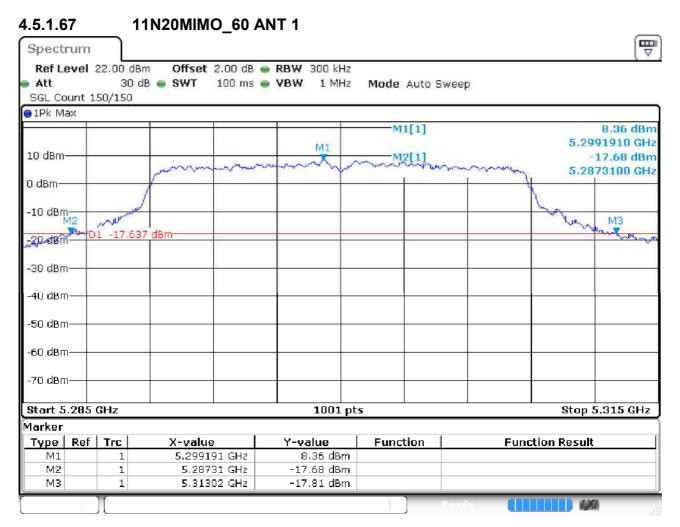
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Report No.: ZR/2020/5003805

Page: 117 of 971



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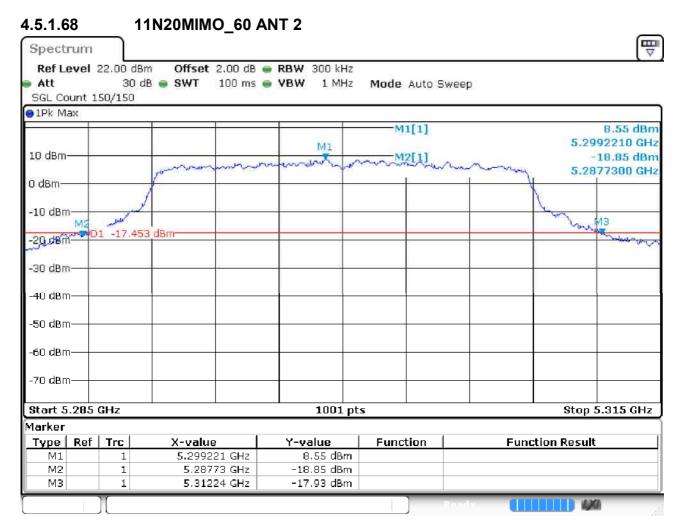
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Report No.: ZR/2020/5003805

Page: 118 of 971



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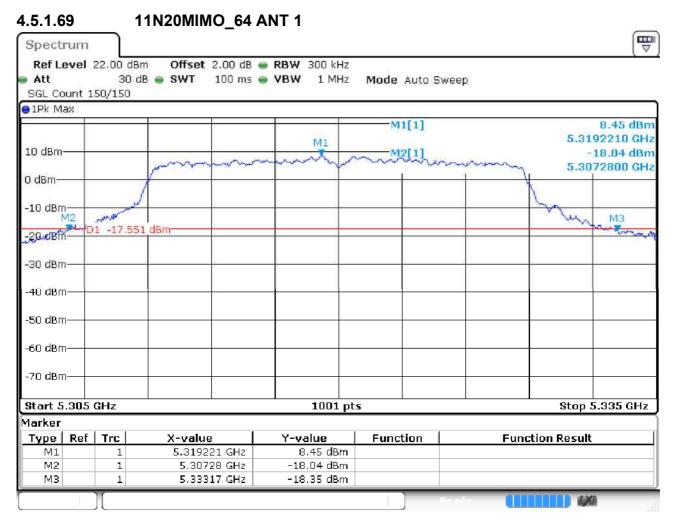
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Report No.: ZR/2020/5003805

Page: 119 of 971



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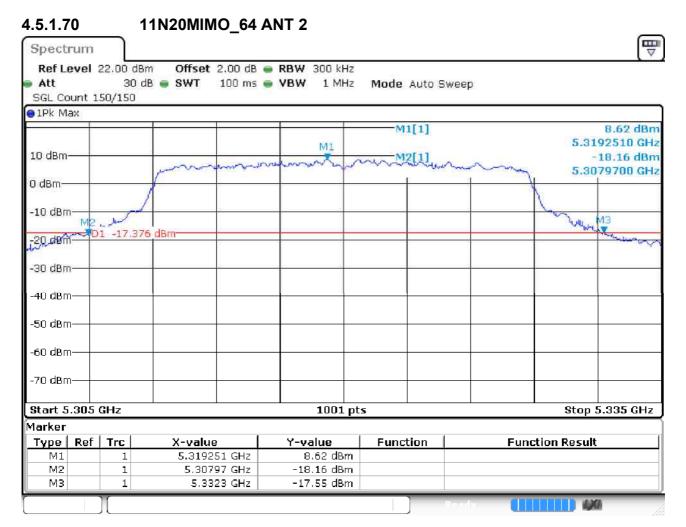
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Report No.: ZR/2020/5003805

Page: 120 of 971



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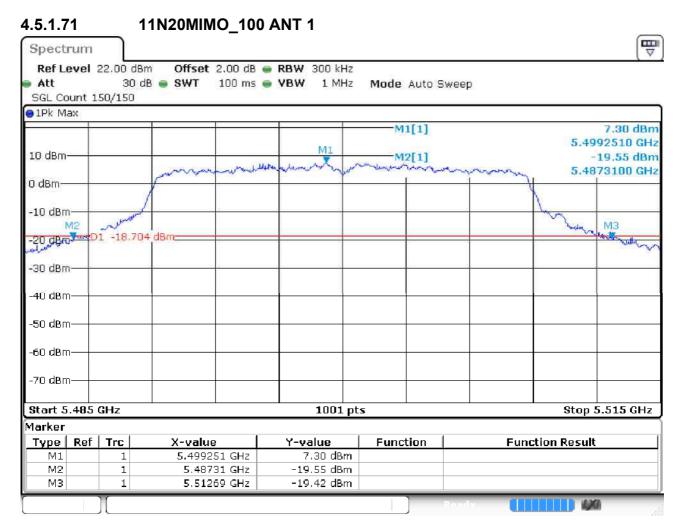
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Report No.: ZR/2020/5003805

Page: 121 of 971



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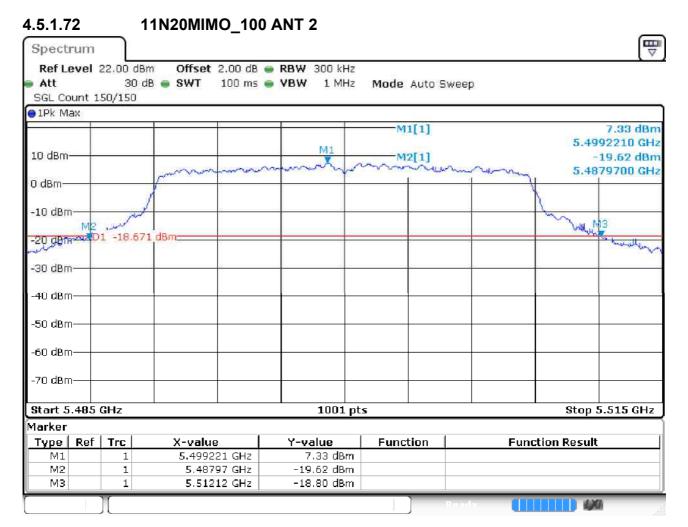
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Report No.: ZR/2020/5003805

Page: 122 of 971



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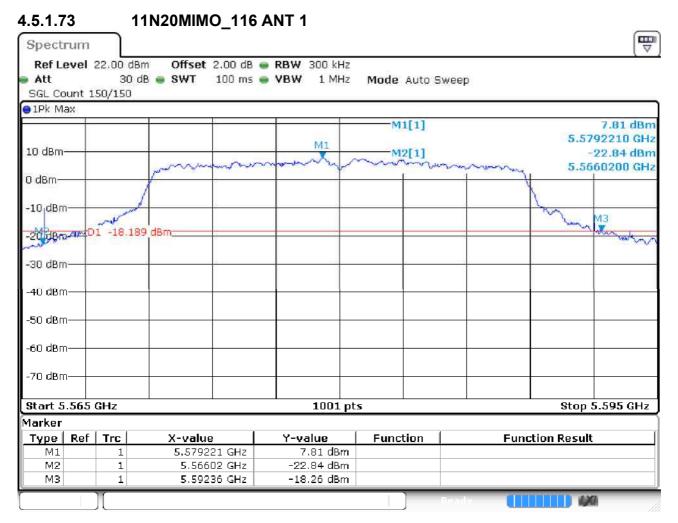
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Report No.: ZR/2020/5003805

Page: 123 of 971



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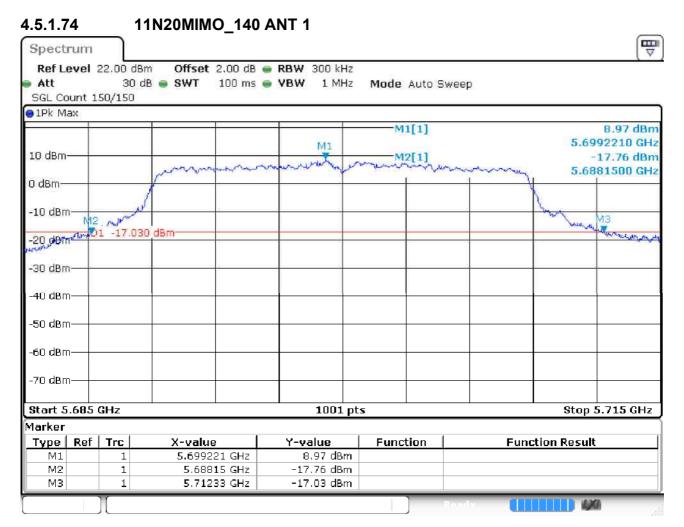
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Report No.: ZR/2020/5003805

Page: 124 of 971



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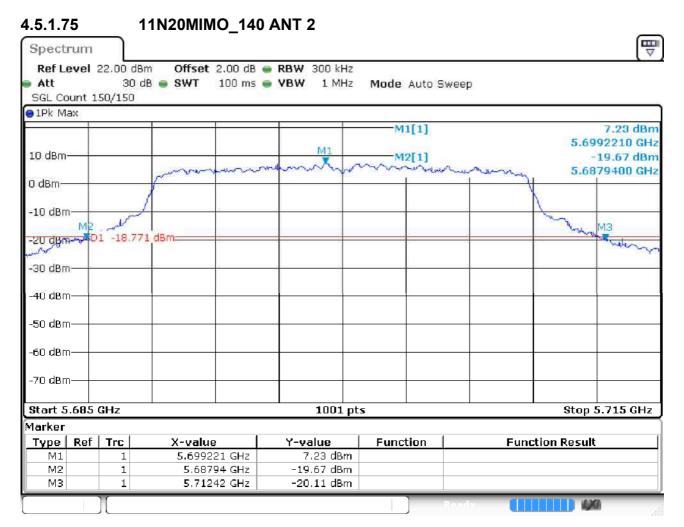
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Report No.: ZR/2020/5003805

Page: 125 of 971



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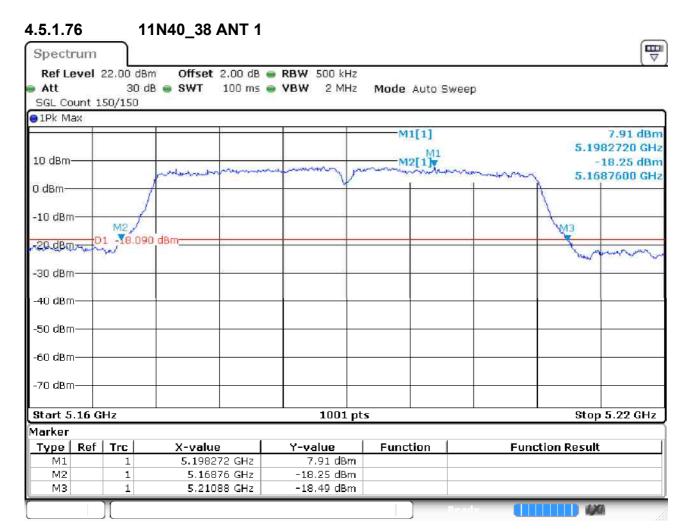
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Report No.: ZR/2020/5003805

Page: 126 of 971



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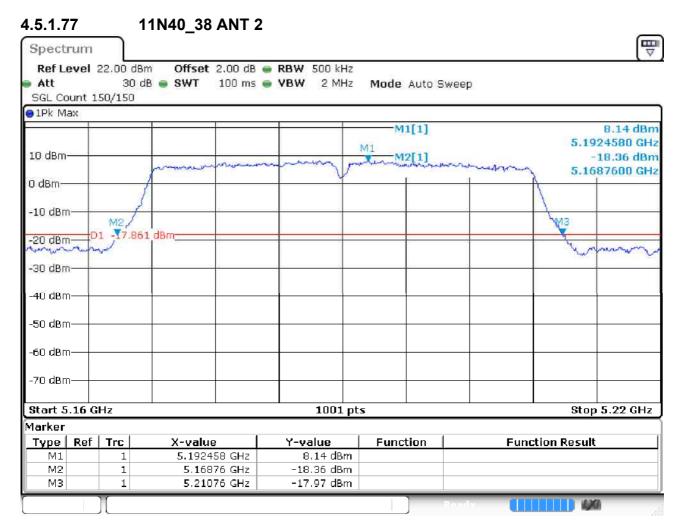
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Report No.: ZR/2020/5003805

Page: 127 of 971



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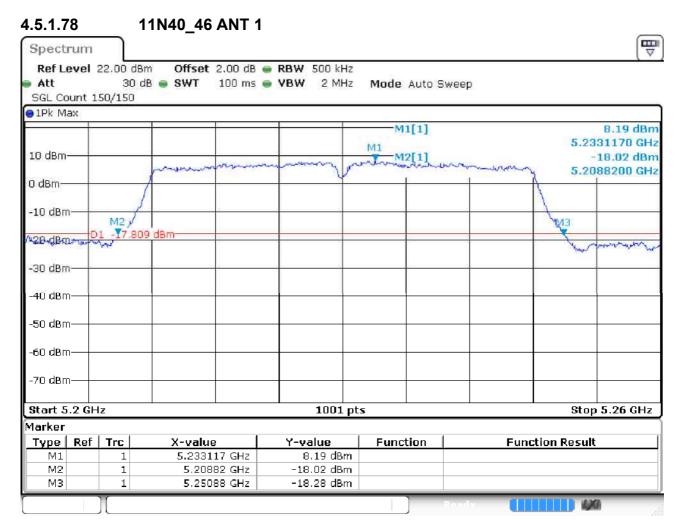
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Report No.: ZR/2020/5003805

Page: 128 of 971



Date: 5.JUN.2020 02:51:26



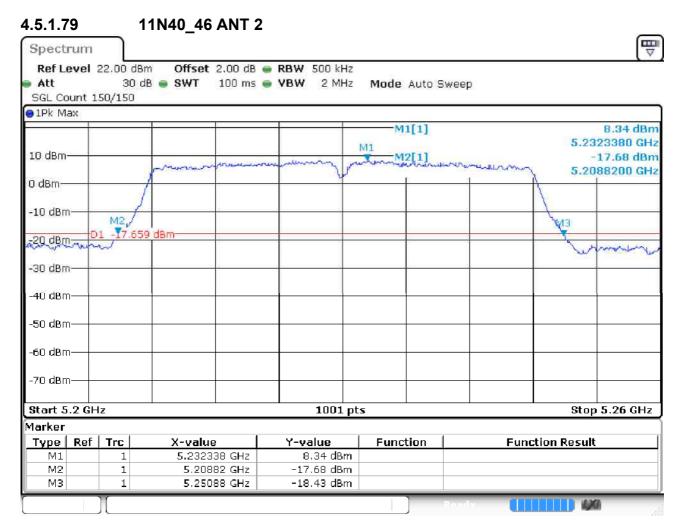
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Report No.: ZR/2020/5003805

Page: 129 of 971



Date: 4.JUN.2020 06:44:27



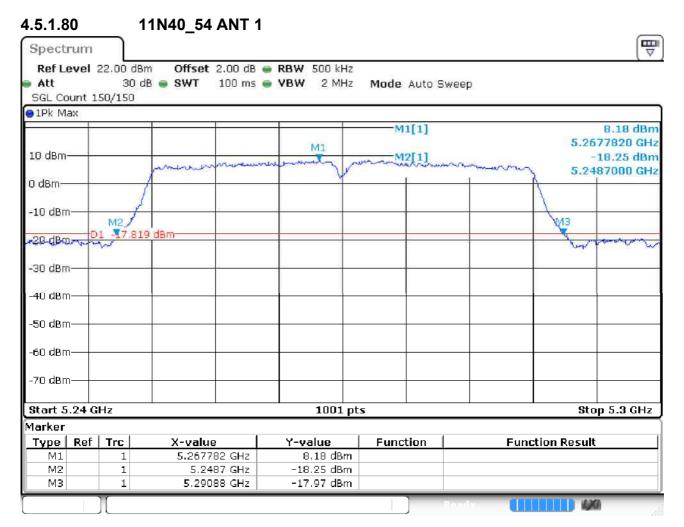
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Report No.: ZR/2020/5003805

Page: 130 of 971



Date: 5.JUN.2020 02:52:58



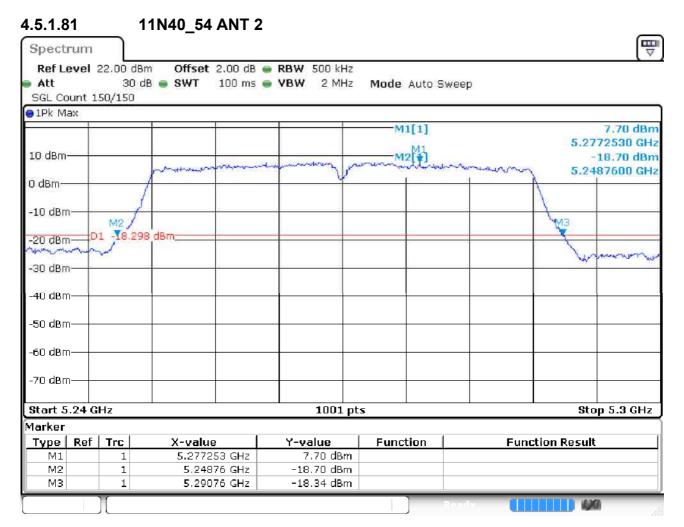
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Report No.: ZR/2020/5003805

Page: 131 of 971



Date: 4.JUN.2020 06:45:57



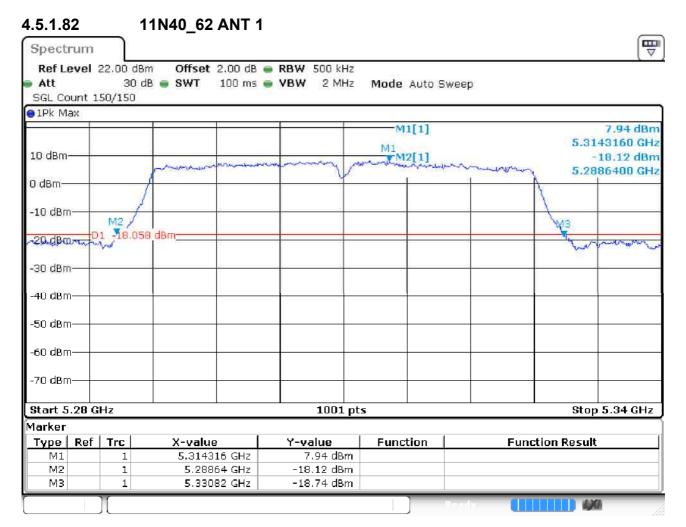
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Report No.: ZR/2020/5003805

Page: 132 of 971



Date: 5.JUN.2020 02:55:57



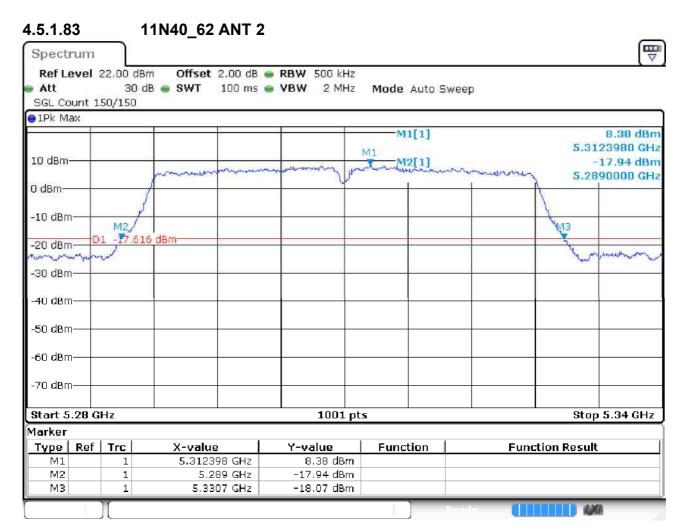
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Report No.: ZR/2020/5003805

Page: 133 of 971



Date: 4.JUN.2020 06:47:21



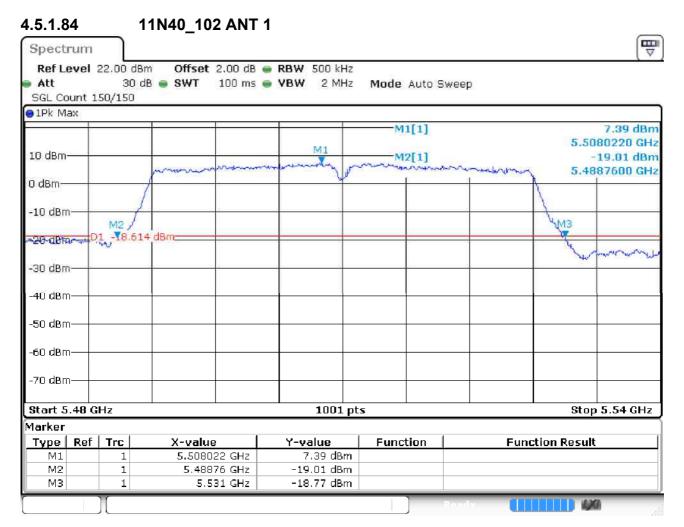
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Report No.: ZR/2020/5003805

Page: 134 of 971



Date: 5.JUN.2020 02:57:34



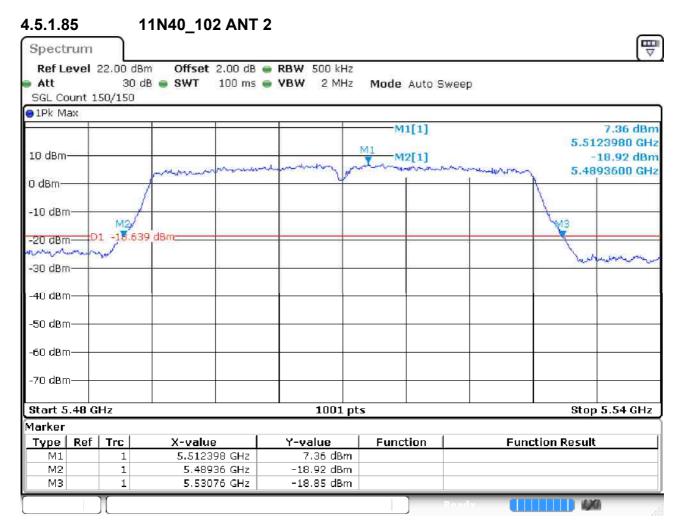
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Report No.: ZR/2020/5003805

Page: 135 of 971



Date: 4.JUN.2020 06:48:57



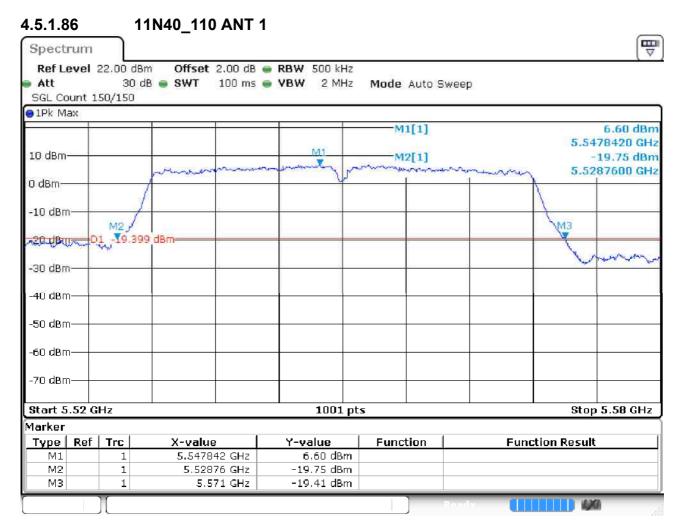
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Report No.: ZR/2020/5003805

Page: 136 of 971



Date: 5.JUN.2020 02:58:56



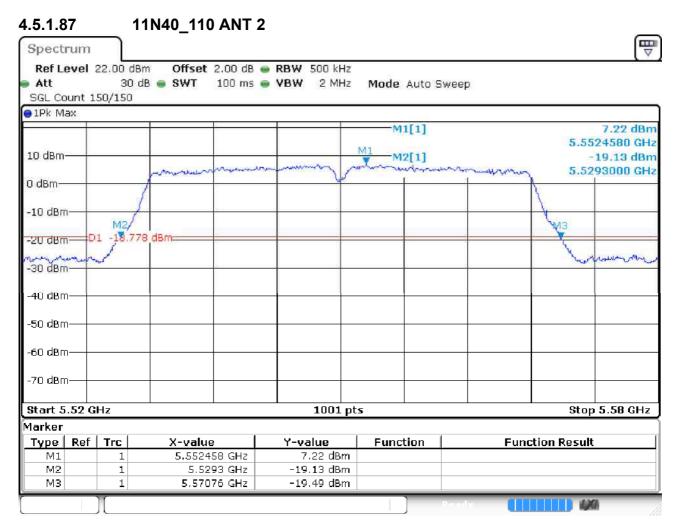
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Report No.: ZR/2020/5003805

Page: 137 of 971



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