



TEST REPORT

REPORT NUMBER: 123W00020-WIFI 5G RF

ON

Type of Equipment: 4G Smart Phone
Type of Designation: MobiWire H6322, Altice S35
Brand Name: MobiWire, Altice
Manufacturer: MobiWire SAS
FCC ID: QPN-H6322

ACCORDING TO

FCC Part15

Chongqing Academy of Information and Communications Technology

Month date, year

Jun 16, 2023

Signature



Xiang Luoyong

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: 123W00020-WIFI 5G RF

Revision Version

Report Number	Revision	Date	Memo
123W00020-WIFI5G RF	00	2023-06-16	Initial creation of test report

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC/IC Registration Number:	CN1239
Address:	Building C, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	25-75%

1.3. Project data

Testing Start Date:	2023-05-23
Testing End Date:	2023-05-26

1.4. Signature



2023-06-16

Dong Junxin
(Prepared this test report)

Date



2023-06-16

Li Xu
(Reviewed this test report)

Date



2023-06-16

Xiang Luoyong
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	MobiWire SAS
Address /Post:	107 Boulevard de la Mission Marchand 92400 Courbevoie,France
City:	Courbevoie
Country:	France
Telephone:	+33625028368
Fax:	N/A
Email:	olivier.tiennault@mobiwire.com
Contact Person:	Olivier Tiennault

2.2. Manufacturer Information

Company Name:	MobiWire SAS
Address /Post:	107 Boulevard de la Mission Marchand 92400 Courbevoie,France
City:	Courbevoie
Country:	France
Telephone:	+33625028368
Fax:	N/A
Email:	olivier.tiennault@mobiwire.com
Contact Person:	Olivier Tiennault

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	4G Smart Phone
Model name	MobiWire H6322, Altice S35
Brand name	MobiWire, Altice
Product Type	Client Devices
GSM Frequency Band	GSM:850/ 900/ 1800/1900
WCDMA Frequency Band	WCDMA:B1/B2/B5/B8
LTE Frequency Band	LTE: B1/2/3/4/5/7/8/20/28/38/41
BLUETOOTH Frequency Band	2402MHz-2480MHz
WLAN Frequency Band	Wi-Fi 2.4G:802.11b/g/n, Wi-Fi 5G U-NII-1/ U-NII-2a/U-NII-2c/U-NII-3:802.11a/n/ac
Type of modulation	OFDM
Extreme Temperature	-10-55°C
Nominal Voltage	3.85V
Extreme High Voltage	4.4V
Extreme Low Voltage	3.6V

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
S4	354365420003740 354365420003757	V01	Mobiwire_H6322_V01	2023-05-23
S5	354365420003864 354365420003872	V01	Mobiwire_H6322_V01	2023-05-23
S8	354365420006222 354365420006230	V01	Mobiwire_H6322_V01	2023-05-23
S9	354365420009044 354365420009051	V01	Mobiwire_H6322_V01	2023-05-23

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*EUT ID: is used to identify the test sample in the lab internally.

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
WLAN	5G	UNII 1: 5150MHz-5240MHz UNII 2A: 5250MHz-5350MHz UNII 2C: 5470MHz-5725MHz		--

3.3. Outline of Equipment under Test

3.4. Internal Identification of AE used during the test

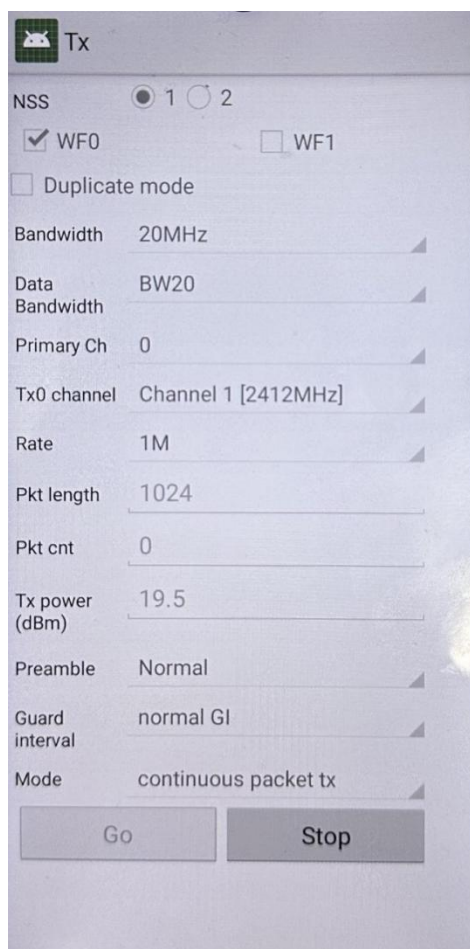
AE ID*	Description	dB*
AE1	RF cable	1dB

*AE ID: is used to identify the test sample in the lab internally.

dB*: is provided customer.

3.5. EUT Test RF Confagle Configuration

EUT uses MTK working control emission measurement, Change power level, channel, rate and HT .



The screenshot shows the MTK RF Configuration interface with the following settings:

- Tx** (Tx icon)
- NSS**: 1 (selected), 2
- WF0**: ☒ (selected), **WF1**: ☐ (unselected)
- Duplicate mode**: ☐ (unselected)
- Bandwidth**: 20MHz
- Data Bandwidth**: BW20
- Primary Ch**: 0
- Tx0 channel**: Channel 1 [2412MHz]
- Rate**: 1M
- Pkt length**: 1024
- Pkt cnt**: 0
- Tx power (dBm)**: 19.5
- Preamble**: Normal
- Guard interval**: normal GI
- Mode**: continuous packet tx
- Buttons**: Go, Stop

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4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title
FCC Part15	FCC CFR 47, Part 15, Subpart C: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz
KDB 558074	Guidance for Performing Compliance Measurements on Frequency Hopping Spread Spectrum systems (DSS) Operating Under §15.247

5. Test Equipments Utilized

5.1. RF Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Spectrum analyzer	FSQ 26	201137/026	--	--	R&S	2023-06-29
2	Spectrum analyzer	FSW26	104280	--	--	R&S	2023-06-29
3	DC Power Supply	3303D	801128	--	--	Topward	2023-06-29

5.2. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	EMI Test Receiver	ESU40	100307	--	--	R&S	2023-06-29
2	TRILOG Broadband Antenna	VULB9163	9163-586	--	--	Schwarzbeck	2024-10-28
3	Horn antenna	9120D	1083	--	--	Schwarzbeck	2024-12-14
4	Horn antenna	DATE 1152	LM7127	--	--	ETS	2024-09-06
5	Horn antenna	DATE 1012	LM5945	--	--	ETS	2024-09-06
6	Amplifier1	SCU-08F1	8320027	--	--	R&S	2023-06-29
7	Amplifier2	SCU-18F	180093	--	--	R&S	2023-06-29

5.3. Climate Chamber

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Climate chamber	SH-241	92010759	ESPEC	2023-06-29

5.4. Anechoic chamber Vibration table

No.	Name	Type	SN	Manufacture	Cal.Due Date
1	Fully-Anechoic Chamber	FAC5	--	TDK	2024-09-22

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5.5. Test software

No.	Name	version	SN	Manufacture
1	EMI Test Software	EMC32 V9.26.01	--	R&S

6. Measurement Results

6.1 Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
15.407(a)	Duty Cycle	Pass
15.407(a)	Maximum Output Power	Pass
15.407(a)	Power Spectral Density	Pass
15.407(a)	99% Occupied Bandwidth	Pass
15.407(a)	Occupied 26dB Bandwidth	Pass
15.407(b)	Band edge compliance	Pass
15.407(b)	Transmitter spurious emissions radiated	Pass
15.407(g)	Frequency Stability	Pass
15.407(h)	Transmit Power Control	N/A
15.207	AC Powerline Conducted Emission	Pass
NOTE: The MobiWire H6322, Altice 535, manufactured by MobiWire SAS is a new product for testing. The following configurations were tested for radiation spurious emission:		

6.2 Duty Cycle

Specifications:	FCC 47 Part 15.407(a)
DUT Serial Number:	S4
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Measurement Uncertainty:

Measurement Uncertainty	--
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The measurement method is made according to KDB 789033 B

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on and off times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission, Set $RBW > EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW > RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T < 16.7$ microseconds.)

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Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	1.39	1.44	96.53
11A	Ant1	5785	1.39	1.44	96.53
11A	Ant1	5825	1.39	1.43	97.20
11N20SISO	Ant1	5745	1.30	1.34	97.01
11N20SISO	Ant1	5785	1.30	1.34	97.01
11N20SISO	Ant1	5825	1.30	1.35	96.30
11N40SISO	Ant1	5755	0.64	0.69	92.75
11N40SISO	Ant1	5795	0.65	0.70	92.86
11AC20SISO	Ant1	5745	1.31	1.35	97.04
11AC20SISO	Ant1	5785	1.32	1.36	97.06
11AC20SISO	Ant1	5825	1.31	1.36	96.32
11AC40SISO	Ant1	5755	0.65	0.70	92.86
11AC40SISO	Ant1	5795	0.65	0.70	92.86
11AC80SISO	Ant1	5775	0.33	0.37	89.19
11A	Ant1	5180	1.39	1.43	97.20
11A	Ant1	5200	1.39	1.44	96.53
11A	Ant1	5240	1.39	1.43	97.20
11A	Ant1	5260	1.39	1.44	96.53
11A	Ant1	5280	1.39	1.43	97.20
11A	Ant1	5320	1.39	1.43	97.20
11A	Ant1	5500	1.39	1.43	97.20
11A	Ant1	5580	1.39	1.44	96.53
11A	Ant1	5700	1.39	1.44	96.53
11N20SISO	Ant1	5180	1.30	1.35	96.30
11N20SISO	Ant1	5200	1.30	1.35	96.30
11N20SISO	Ant1	5240	1.30	1.34	97.01
11N20SISO	Ant1	5260	1.30	1.35	96.30
11N20SISO	Ant1	5280	1.30	1.34	97.01
11N20SISO	Ant1	5320	1.30	1.35	96.30
11N20SISO	Ant1	5500	1.30	1.35	96.30
11N20SISO	Ant1	5580	1.30	1.34	97.01
11N20SISO	Ant1	5700	1.30	1.35	96.30
11N40SISO	Ant1	5190	0.65	0.70	92.86
11N40SISO	Ant1	5230	0.65	0.69	94.20
11N40SISO	Ant1	5270	0.65	0.69	94.20
11N40SISO	Ant1	5310	0.64	0.69	92.75
11N40SISO	Ant1	5510	0.65	0.70	92.86

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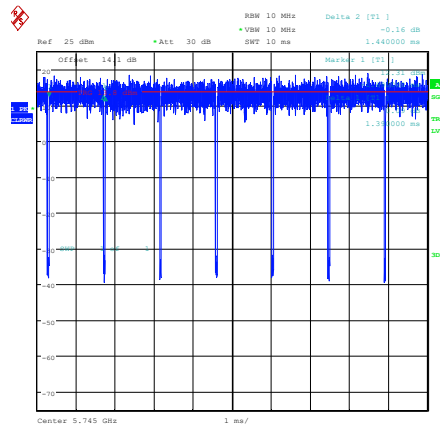
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11N40SISO	Ant1	5550	0.65	0.69	94.20
11N40SISO	Ant1	5670	0.65	0.70	92.86
11AC20SISO	Ant1	5180	1.31	1.36	96.32
11AC20SISO	Ant1	5200	1.31	1.36	96.32
11AC20SISO	Ant1	5240	1.31	1.36	96.32
11AC20SISO	Ant1	5260	1.31	1.36	96.32
11AC20SISO	Ant1	5280	1.31	1.36	96.32
11AC20SISO	Ant1	5320	1.32	1.36	97.06
11AC20SISO	Ant1	5500	1.31	1.35	97.04
11AC20SISO	Ant1	5580	1.31	1.36	96.32
11AC20SISO	Ant1	5700	1.31	1.35	97.04
11AC40SISO	Ant1	5190	0.65	0.70	92.86
11AC40SISO	Ant1	5230	0.65	0.70	92.86
11AC40SISO	Ant1	5270	0.65	0.69	94.20
11AC40SISO	Ant1	5310	0.65	0.69	94.20
11AC40SISO	Ant1	5510	0.66	0.70	94.29
11AC40SISO	Ant1	5550	0.65	0.70	92.86
11AC40SISO	Ant1	5670	0.66	0.70	94.29
11AC80SISO	Ant1	5210	0.32	0.37	86.49
11AC80SISO	Ant1	5290	0.32	0.37	86.49
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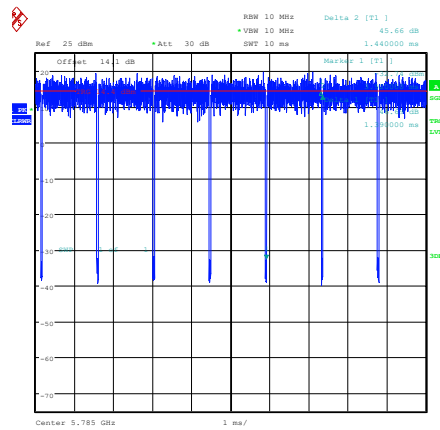
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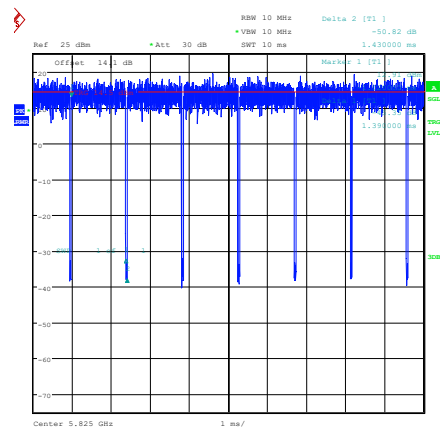
Test Graphs Channel Power



NTNV-11A-Ant1-5745



NTNV-11A-Ant1-5785

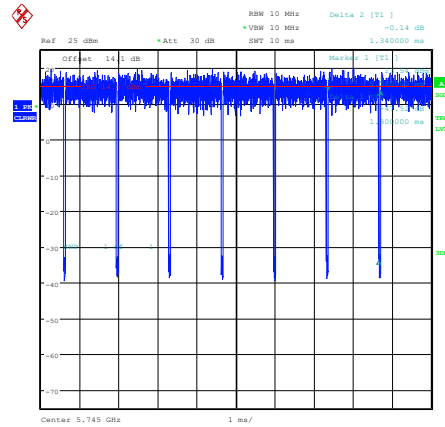


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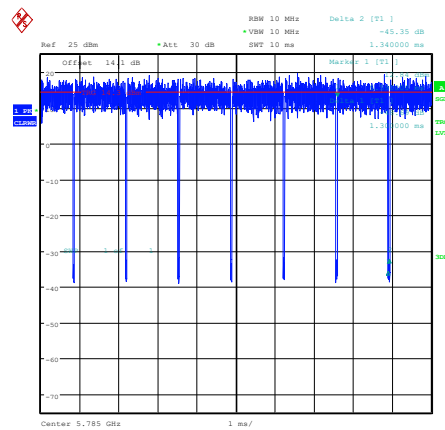
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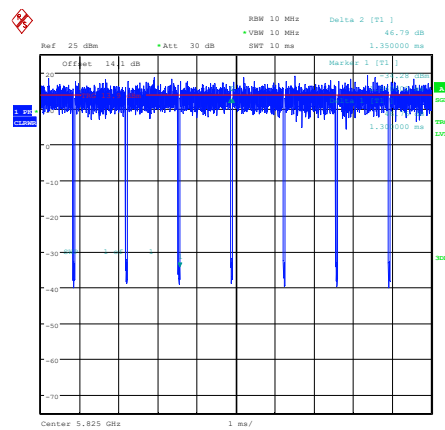
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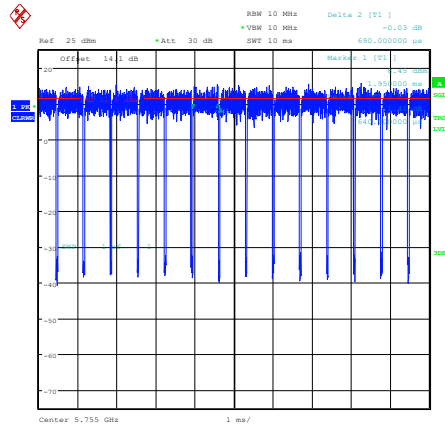


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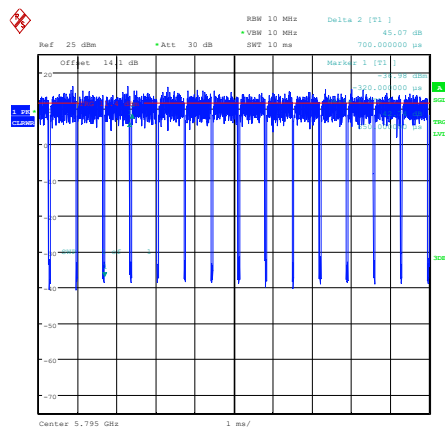
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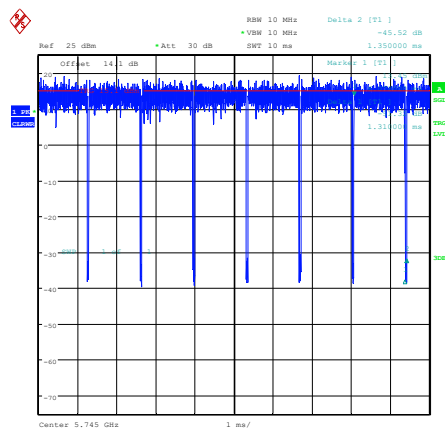
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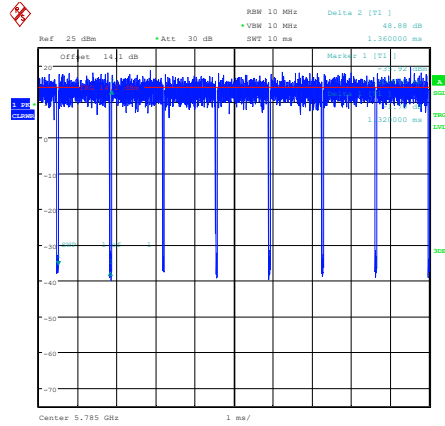
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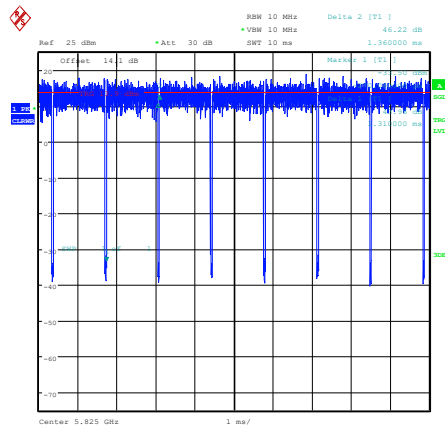
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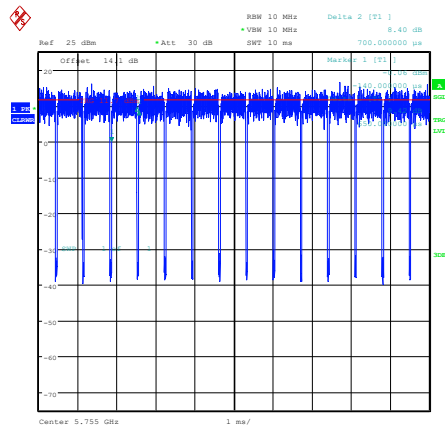
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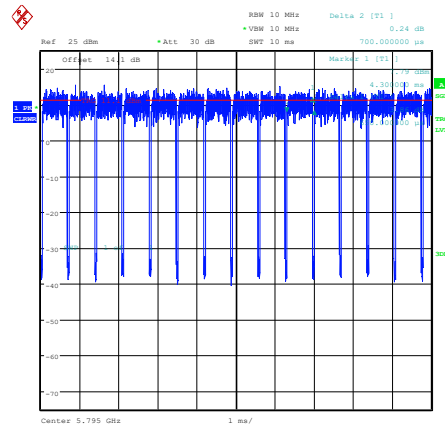


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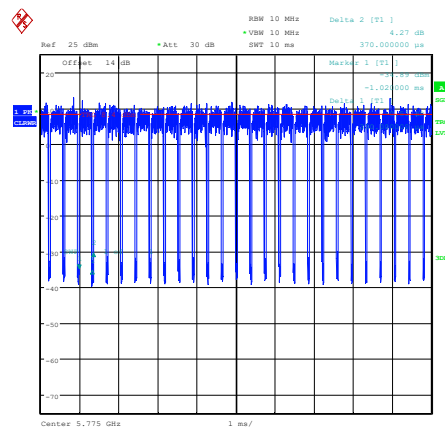


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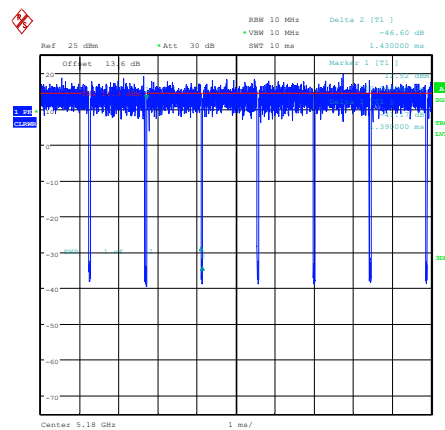
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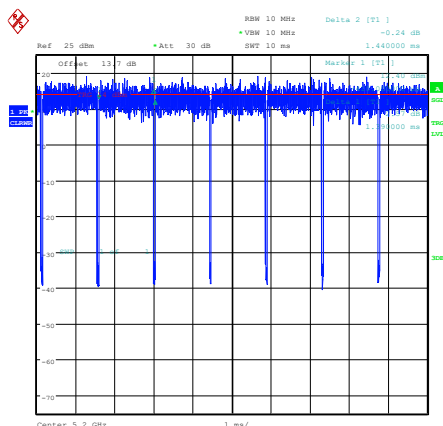


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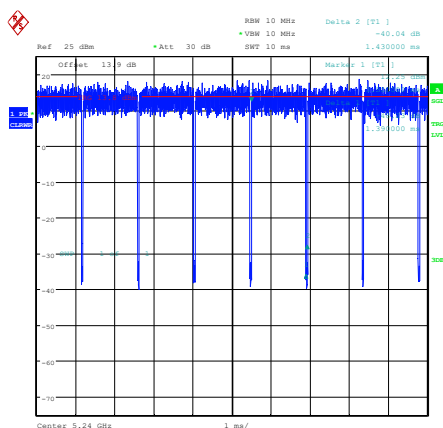
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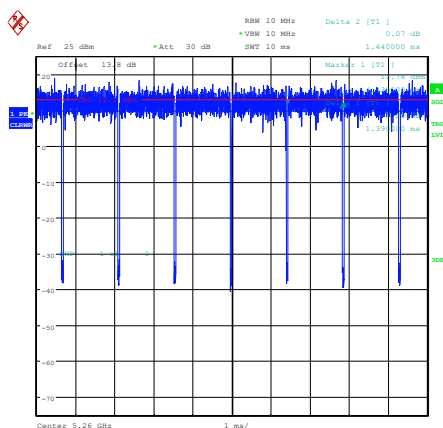
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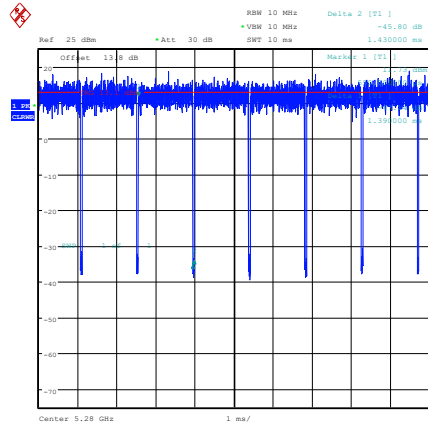


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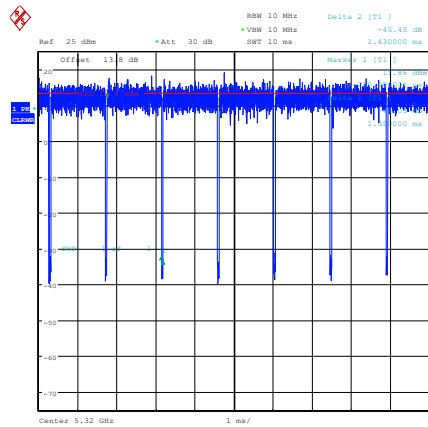
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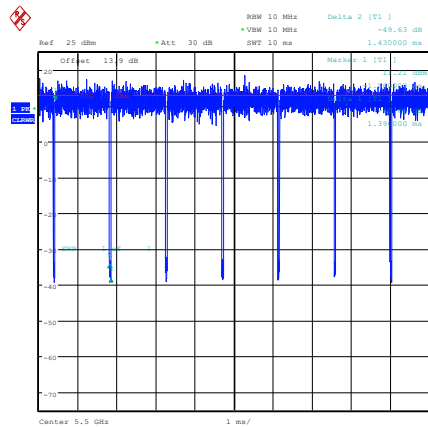
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NTNV-11A-Ant1-5280



NTNV-11A-Ant1-5320

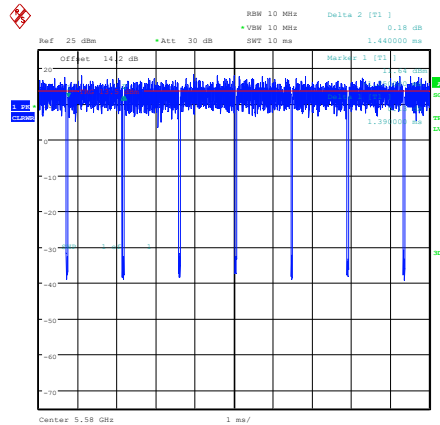


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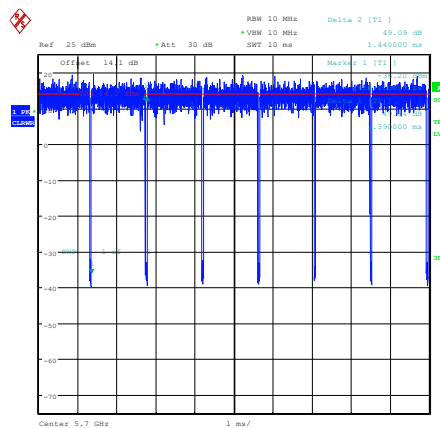
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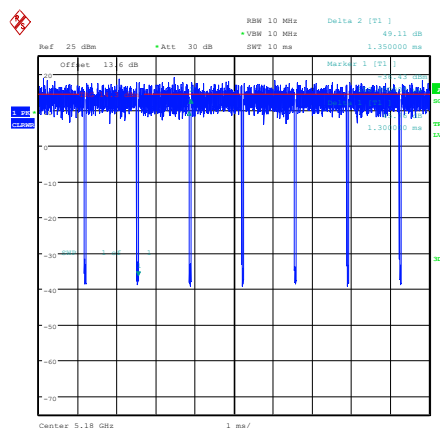
Report No.: 123W00020-WIFI 5G RF



NTNV-11A-Ant1-5580



NTNV-11A-Ant1-5700

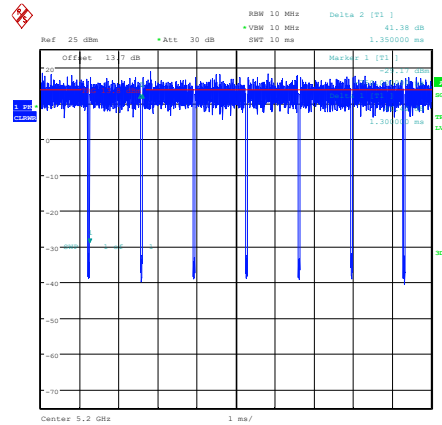


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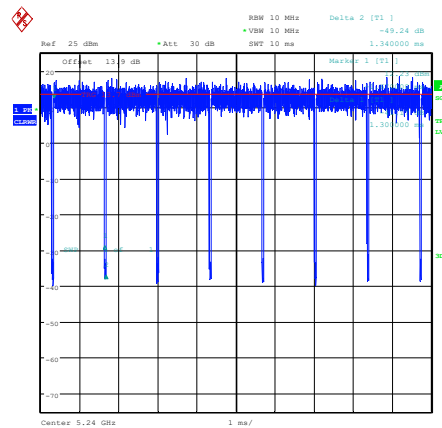
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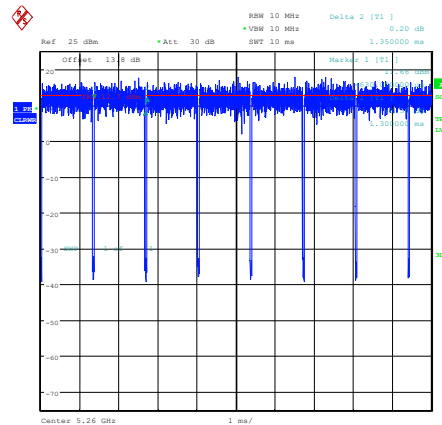
Report No.: 123W00020-WIFI 5G RF



NTNV-11N20SISO-Ant1-5200



NTNV-11N20SISO-Ant1-5240

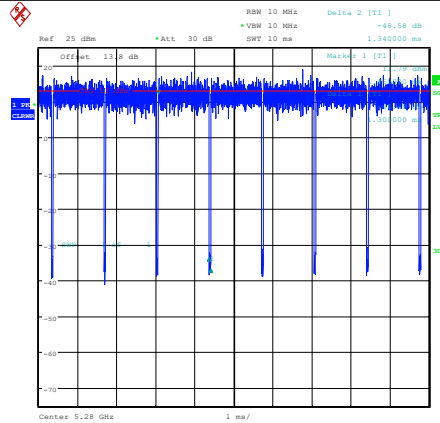


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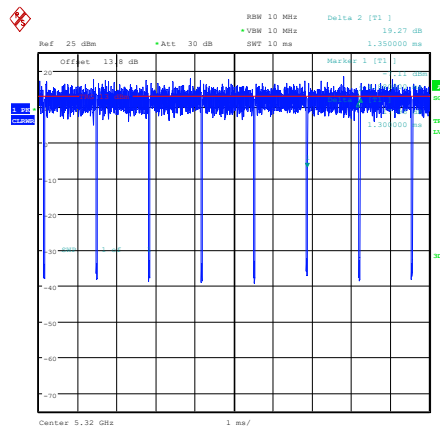
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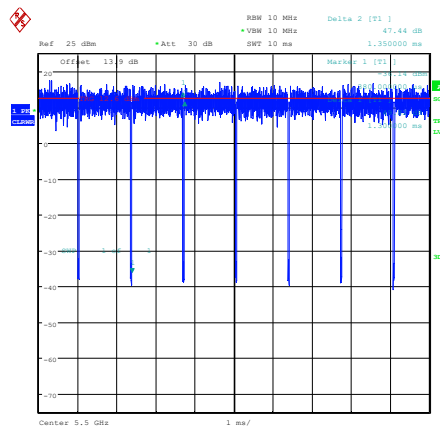
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NTNV-11N20SISO-Ant1-5280



NTNV-11N20SISO-Ant1-5320

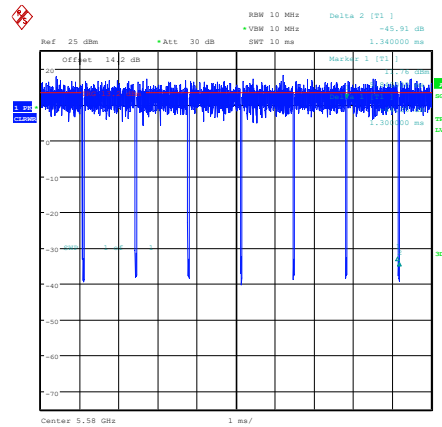


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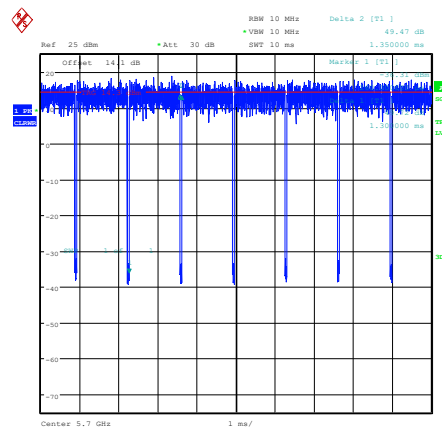
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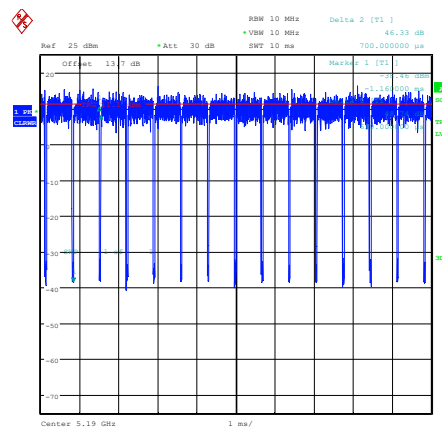
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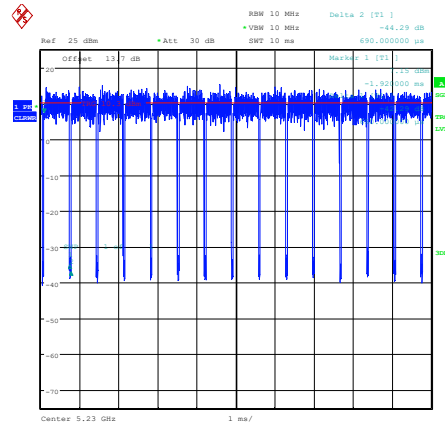


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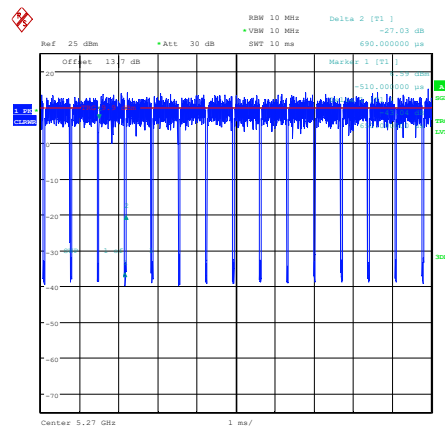
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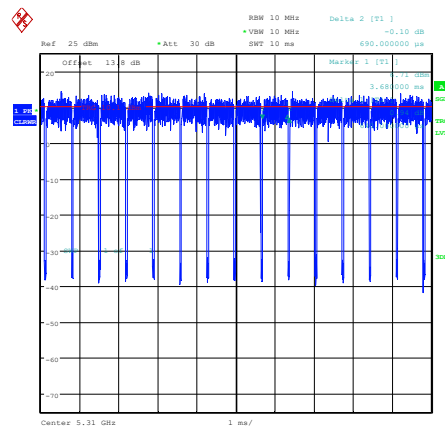
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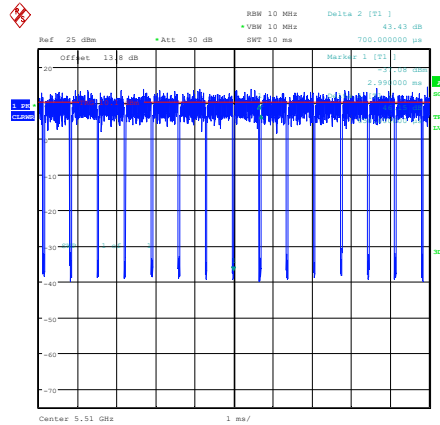


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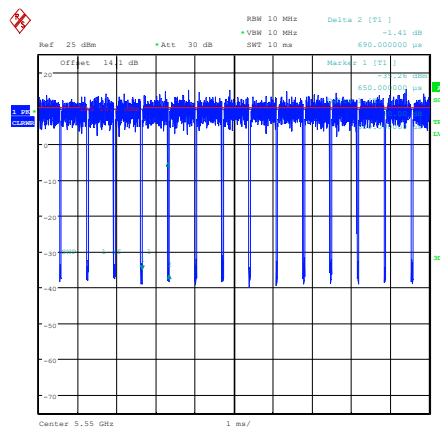


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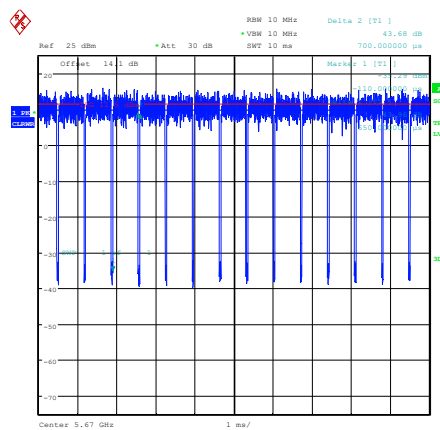
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NTNV-11N40SISO-Ant1-5510



NTNV-11N40SISO-Ant1-5550

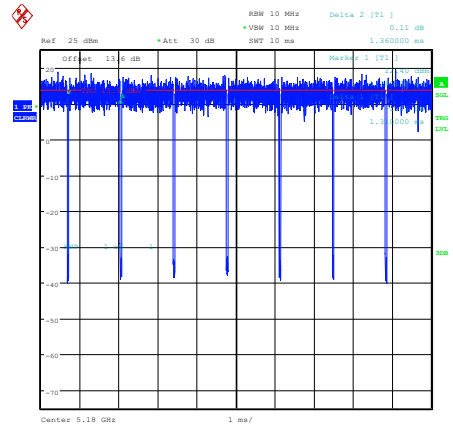


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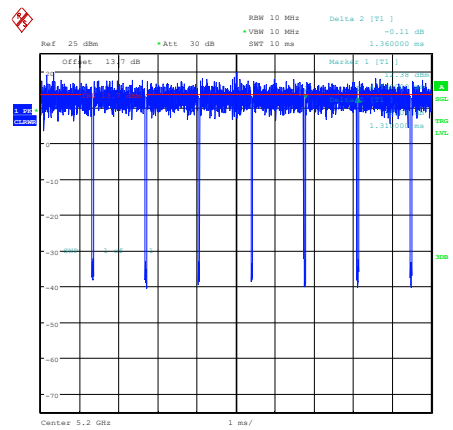
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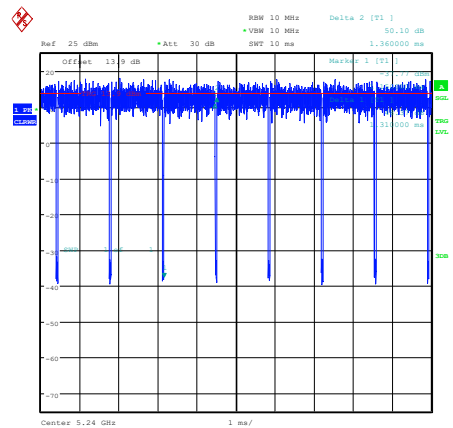
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NTNV-11AC20SISO-Ant1-5180



NTNV-11AC20SISO-Ant1-5200

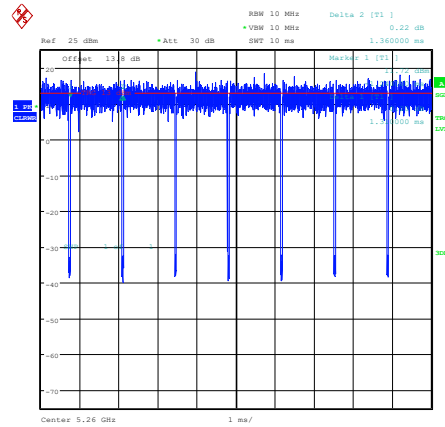


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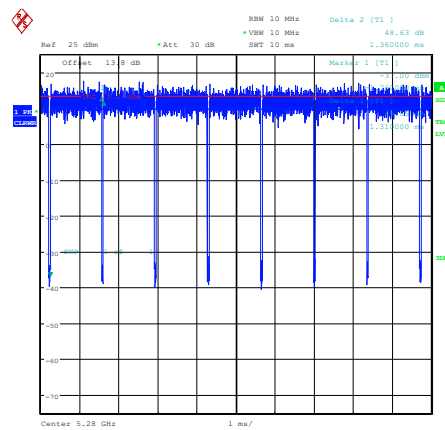
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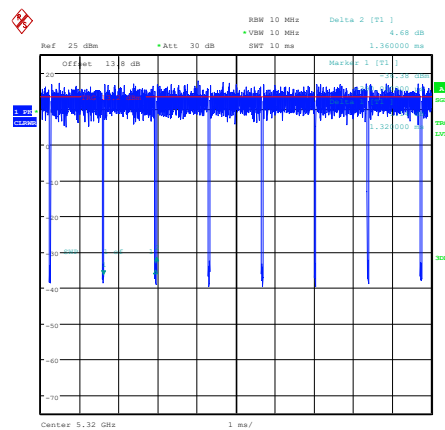
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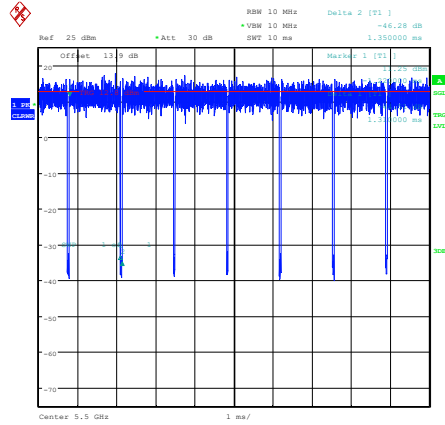
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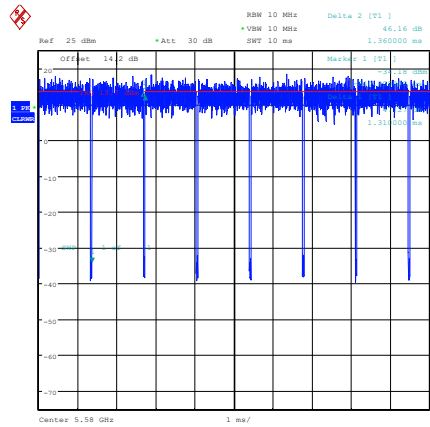
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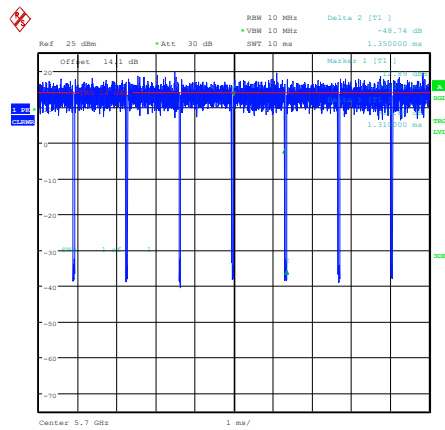
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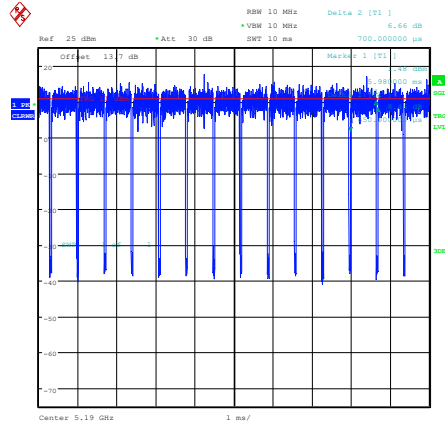
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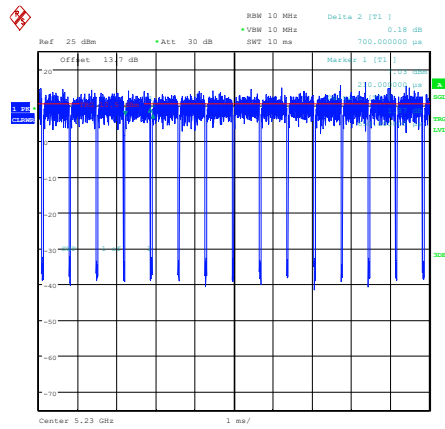
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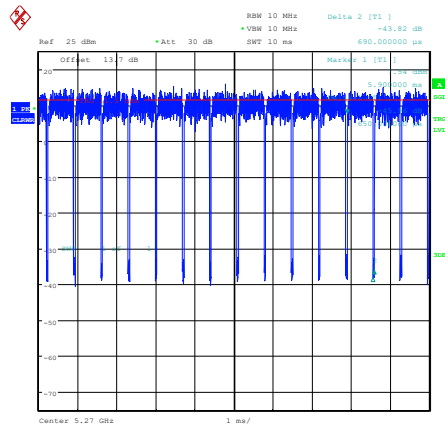
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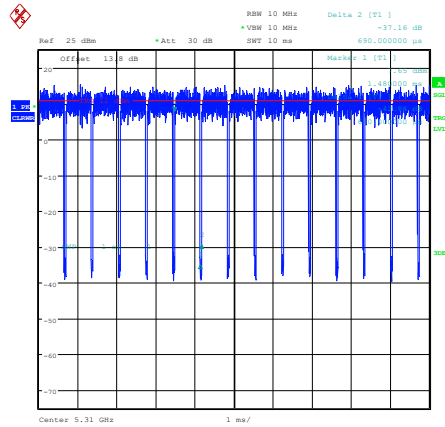


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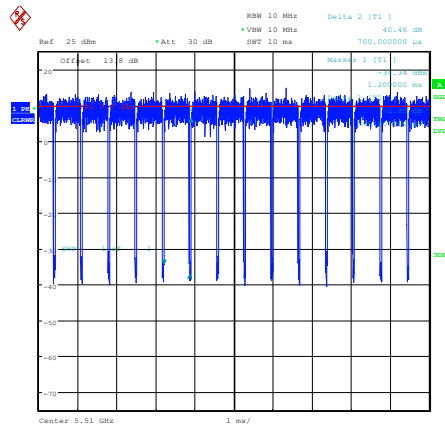


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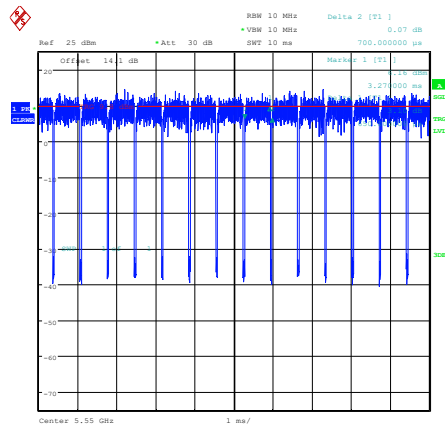
Report No.: 123W00020-WIFI 5G RF



NTNV-11AC40SISO-Ant1-5310



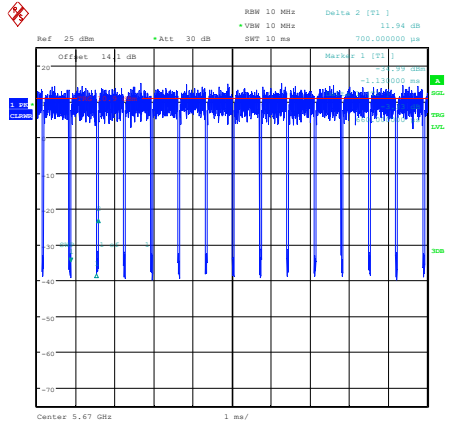
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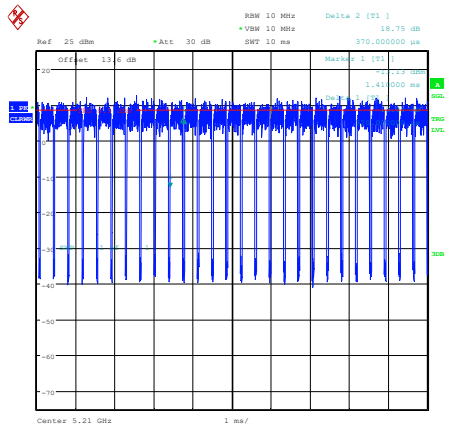
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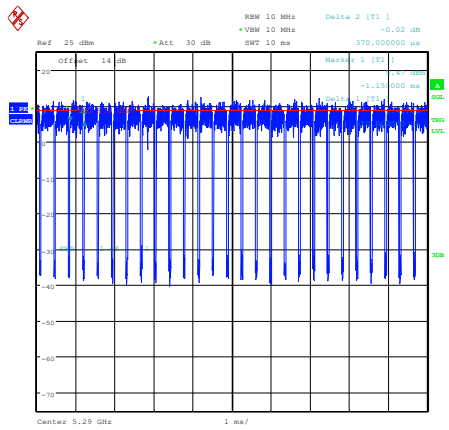
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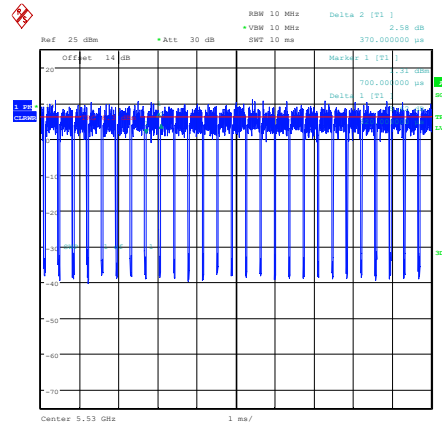
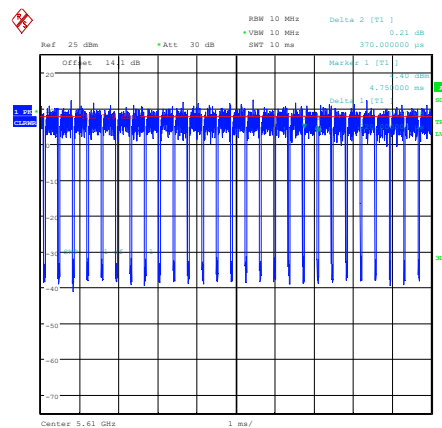
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NTNV-11AC80SISO-Ant1-5210



NTNV-11AC80SISO-Ant1-5290


NTNV-11AC80SISO-Ant1-5530

NTNV-11AC80SISO-Ant1-5610

6.3 Maximum conducted output power

Specifications:	FCC 47 Part 15.407(a)
DUT Serial Number:	S4
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Measurement Limit and Method

Standard	Limit (dBm)
FCC 47 Part 15.407(a)	<30

Measurement Uncertainty:

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Measurement Uncertainty	$\pm 0.48\text{dB}$
-------------------------	---------------------

The measurement method SA-2 is made according to KDB 789033 E

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

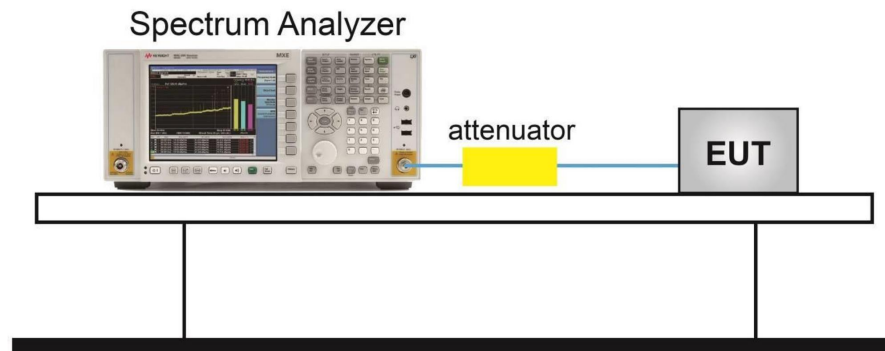
1. Measure the duty cycle, x , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz. (iv) Set VBW ≥ 3 MHz.
4. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
5. Sweep time = auto.
6. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
7. Do not use sweep triggering. Allow the sweep to “free run.”
8. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
9. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.

Add $10 \log (1/x)$, where x is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%

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Test setup



Antenna gain of EUT

No.	Item(s)	Data
1	Antenna 0 gain of EUT	0.61 dBi
Note: The data is provided by the customer may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.		

Test Result Channel Power

Test Mode	Frequency[MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	5180	15	11.43	96.53	0.15	11.58	≤23.98	0.61	12.19	---	PASS
	5200	15	11.19	97.20	0.12	11.31	≤23.98	0.61	11.92	---	PASS
	5240	15	10.13	97.22	0.12	10.25	≤23.98	0.61	10.86	---	PASS
	5260	15	10.48	96.53	0.15	10.63	≤23.98	0.61	11.24	≤26.99	PASS
	5280	15	10.74	96.53	0.15	10.89	≤23.98	0.61	11.50	≤26.99	PASS
	5320	15	10.78	96.53	0.15	10.93	≤23.98	0.61	11.54	≤26.99	PASS
	5500	15	10.18	96.53	0.15	10.33	≤23.98	0.61	10.94	≤26.99	PASS
	5580	15	10.00	97.20	0.12	10.12	≤23.98	0.61	10.73	≤26.99	PASS
	5700	15	10.40	96.53	0.15	10.55	≤23.98	0.61	11.16	≤26.99	PASS
11N20SISO	5180	14-	9.71	96.30	0.16	9.87	≤23.98	0.61	10.48	---	PASS
	5200	14-	9.45	96.30	0.16	9.61	≤23.98	0.61	10.22	---	PASS
	5240	14-	9.20	97.01	0.13	9.33	≤23.98	0.61	9.94	---	PASS
	5260	14-	9.24	96.30	0.16	9.40	≤23.98	0.61	10.01	≤26.99	PASS
	5280	14-	9.26	96.30	0.16	9.42	≤23.98	0.61	10.03	≤26.99	PASS
	5320	14-	9.70	96.30	0.16	9.86	≤23.98	0.61	10.47	≤26.99	PASS
	5500	14-	8.16	97.01	0.13	8.29	≤23.98	0.61	8.90	≤26.99	PASS

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	5580	14-	7.72	97.01	0.13	7.85	≤23.98	0.61	8.46	≤26.99	PASS
	5700	14-	8.28	97.01	0.13	8.41	≤23.98	0.61	9.02	≤26.99	PASS
11N40SISO	5190	14-	9.46	94.20	0.26	9.72	≤23.98	0.61	10.33	---	PASS
	5230	14-	8.90	94.20	0.26	9.16	≤23.98	0.61	9.77	---	PASS
	5270	14-	8.76	94.20	0.26	9.02	≤23.98	0.61	9.63	≤26.99	PASS
	5310	14-	9.50	92.86	0.32	9.82	≤23.98	0.61	10.43	≤26.99	PASS
	5510	14-	8.15	94.20	0.26	8.41	≤23.98	0.61	9.02	≤26.99	PASS
	5550	14-	8.02	92.75	0.33	8.35	≤23.98	0.61	8.96	≤26.99	PASS
	5670	14-	8.76	92.86	0.32	9.08	≤23.98	0.61	9.69	≤26.99	PASS
11AC20SISO	5180	14-	9.59	97.06	0.13	9.72	≤23.98	0.61	10.33	---	PASS
	5200	14-	9.65	97.06	0.13	9.78	≤23.98	0.61	10.39	---	PASS
	5240	14-	8.80	97.06	0.13	8.93	≤23.98	0.61	9.54	---	PASS
	5260	14-	8.40	96.32	0.16	8.56	≤23.98	0.61	9.17	≤26.99	PASS
	5280	14-	8.75	96.32	0.16	8.91	≤23.98	0.61	9.52	≤26.99	PASS
	5320	14-	9.12	96.32	0.16	9.28	≤23.98	0.61	9.89	≤26.99	PASS
	5500	14-	8.29	97.04	0.13	8.42	≤23.98	0.61	9.03	≤26.99	PASS
	5580	14-	8.47	97.04	0.13	8.60	≤23.98	0.61	9.21	≤26.99	PASS
	5700	14-	8.62	96.32	0.16	8.78	≤23.98	0.61	9.39	≤26.99	PASS
11AC40SISO	5190	14-	8.89	94.20	0.26	9.15	≤23.98	0.61	9.76	---	PASS
	5230	14-	8.17	92.86	0.32	8.49	≤23.98	0.61	9.10	---	PASS
	5270	14-	8.20	94.20	0.26	8.46	≤23.98	0.61	9.07	≤26.99	PASS
	5310	14-	8.61	94.20	0.26	8.87	≤23.98	0.61	9.48	≤26.99	PASS
	5510	14-	8.05	94.20	0.26	8.31	≤23.98	0.61	8.92	≤26.99	PASS
	5550	14-	8.00	92.86	0.32	8.32	≤23.98	0.61	8.93	≤26.99	PASS
	5670	14-	8.67	94.20	0.26	8.93	≤23.98	0.61	9.54	≤26.99	PASS
11AC80SISO	5210	13.5	7.58	89.19	0.50	8.08	≤23.98	0.61	8.69	---	PASS
	5290	13.5	8.09	89.19	0.50	8.59	≤23.98	0.61	9.20	≤26.99	PASS
	5530	13.5	6.99	89.19	0.50	7.49	≤23.98	0.61	8.10	≤26.99	PASS
	5610	13.5	7.22	86.49	0.63	7.85	≤23.98	0.61	8.46	≤26.99	PASS

Note: The Duty Cycle Factor is compensated in the graph.

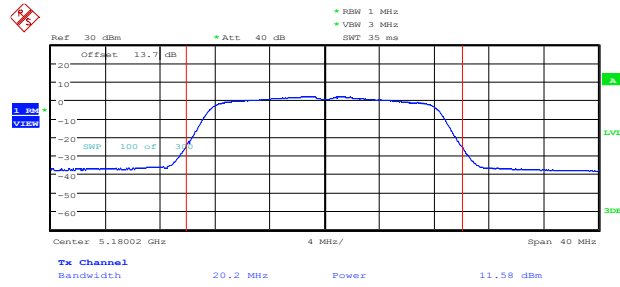
The 11a data rate 6Mbps is selected as worse condition, 11n/11ac data rate MCS0 is selected as worse condition, and the following cases are performed with this condition.

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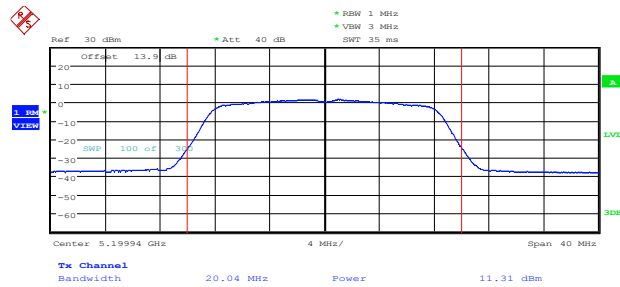
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Test Graphs Channel Power

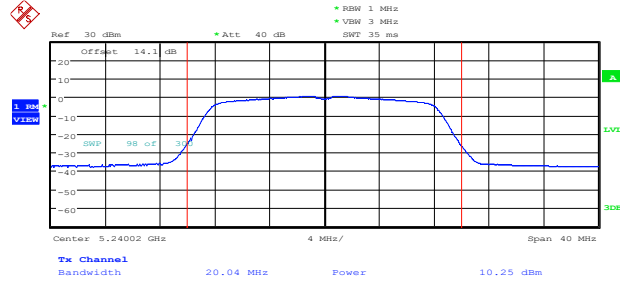
11A_Ant1_5180



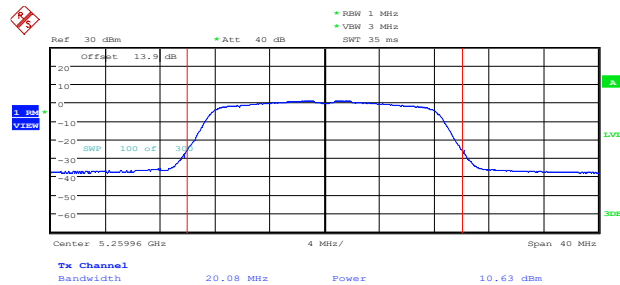
11A_Ant1_5200



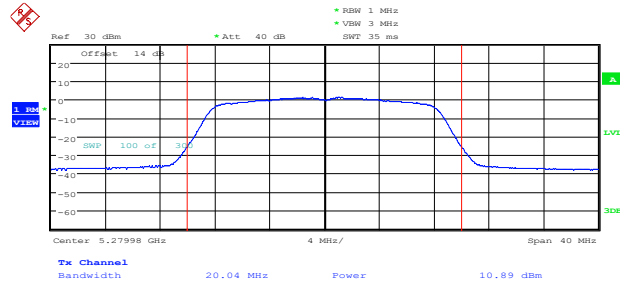
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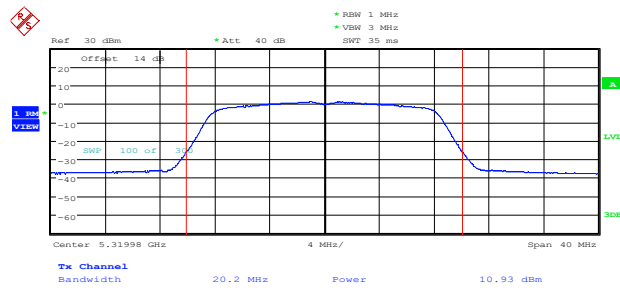
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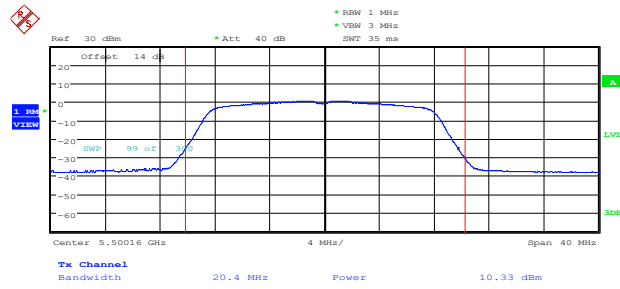
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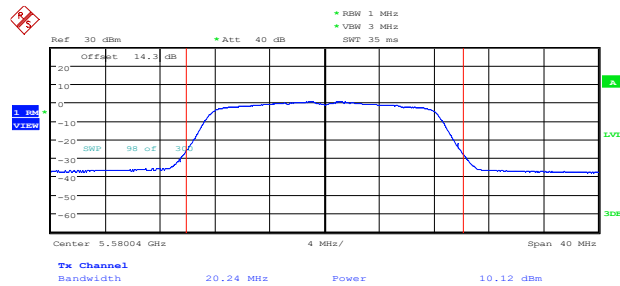
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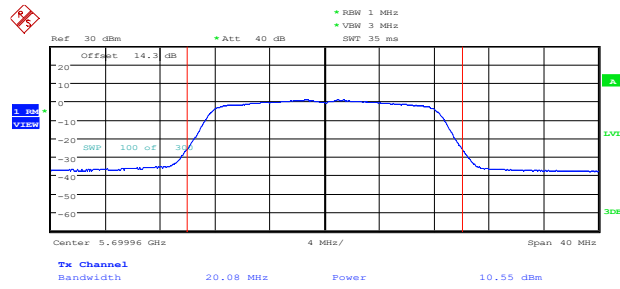
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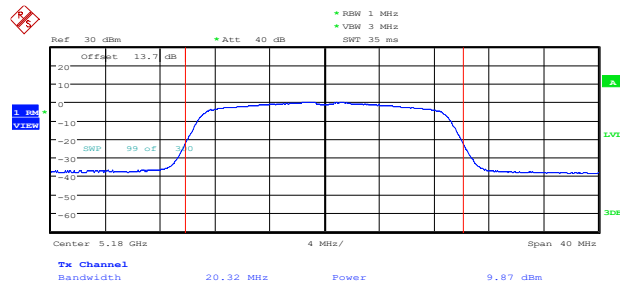
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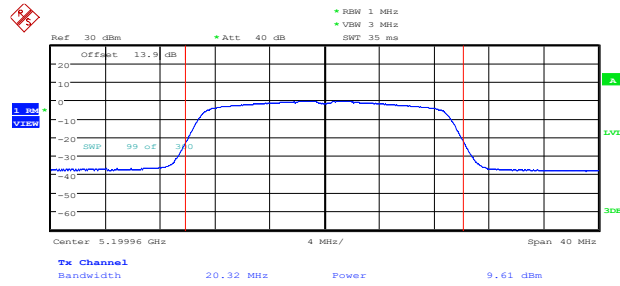
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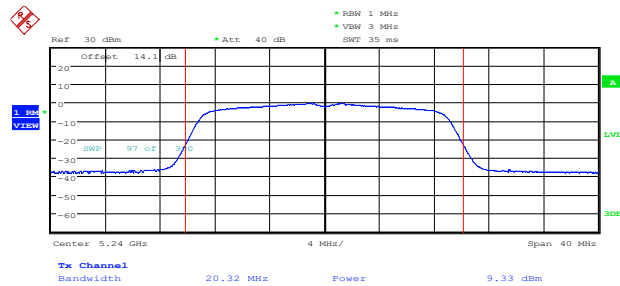
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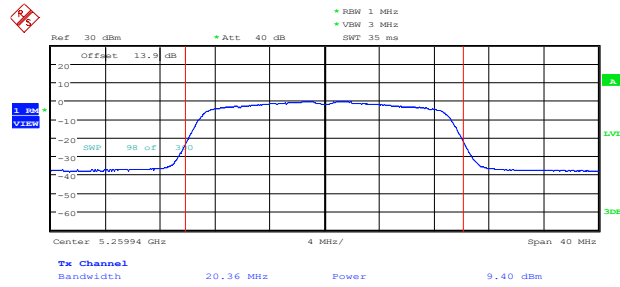
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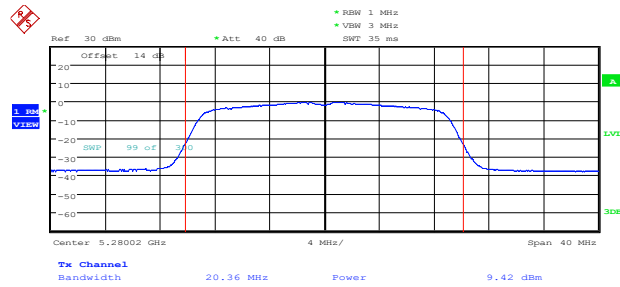
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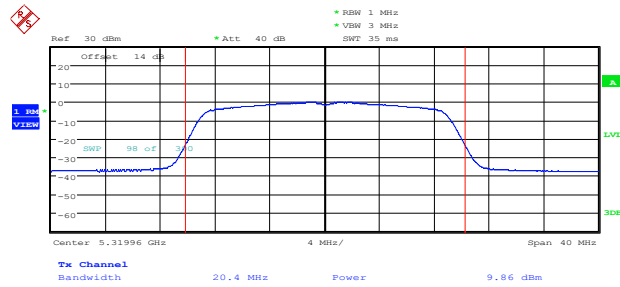
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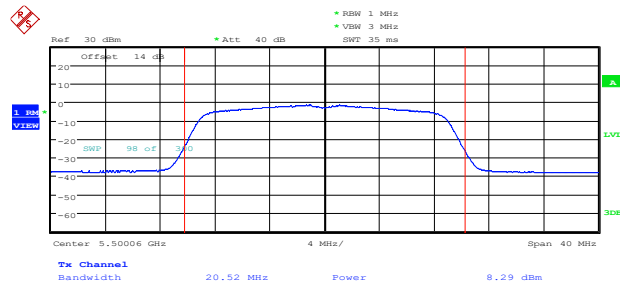
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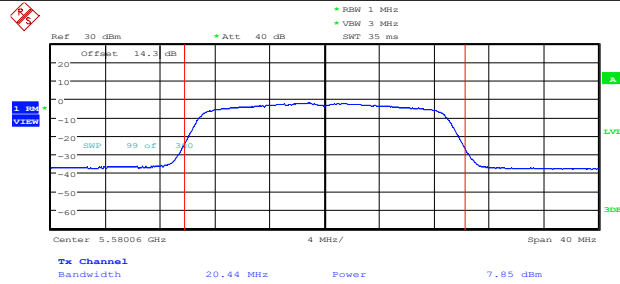


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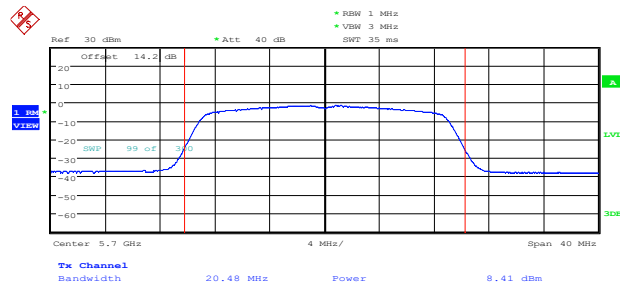


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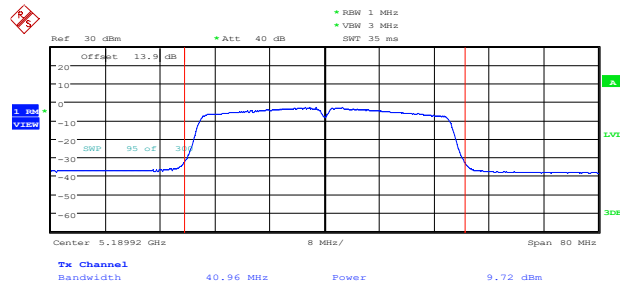
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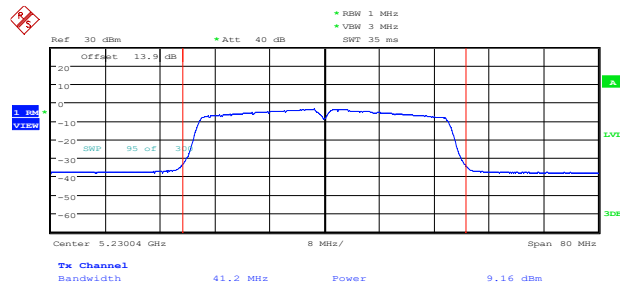
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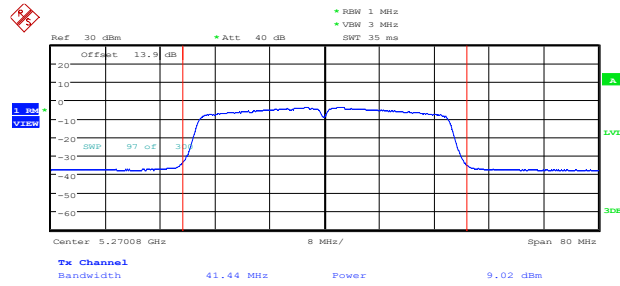
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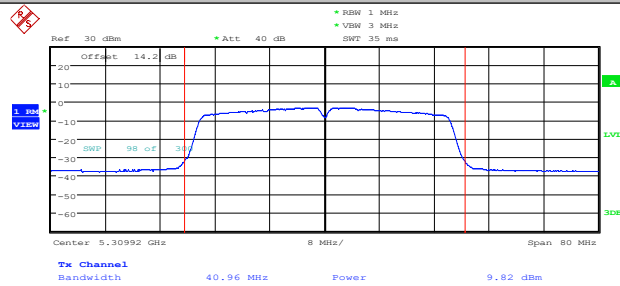
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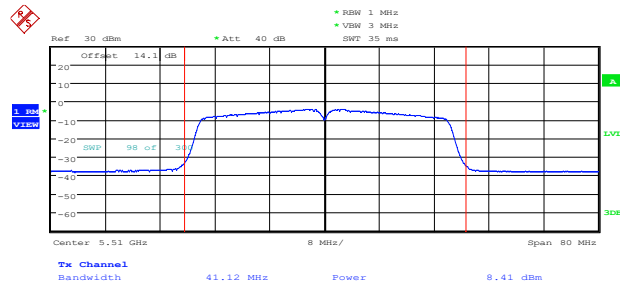
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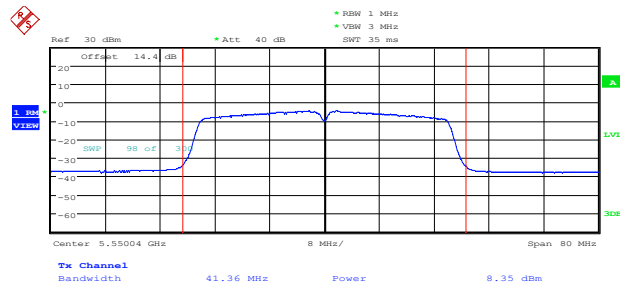
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11N40SISO_Ant1_5510

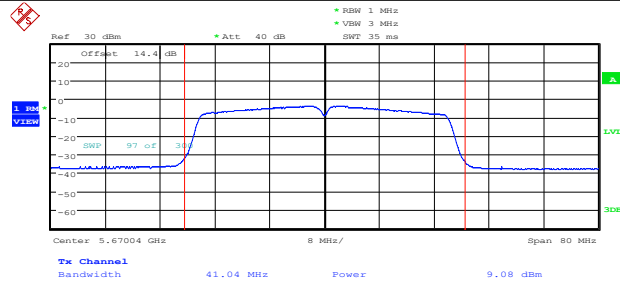


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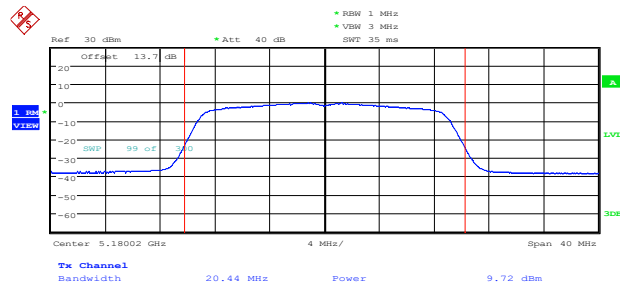


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Report No.: 123W00020-WIFI 5G RF



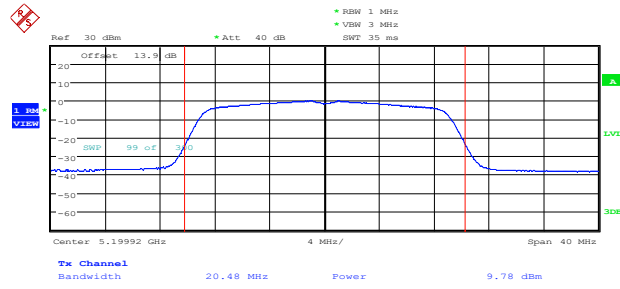
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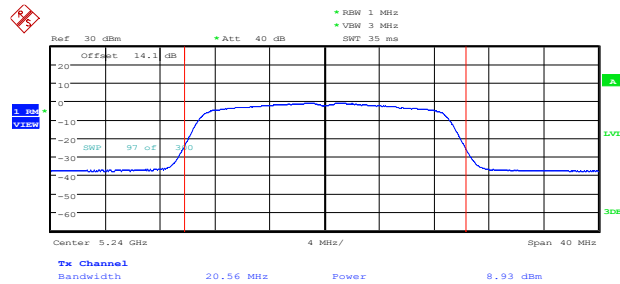
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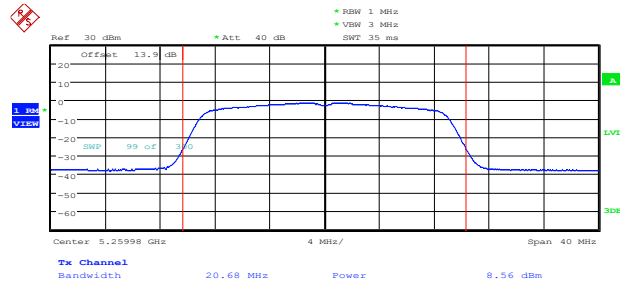
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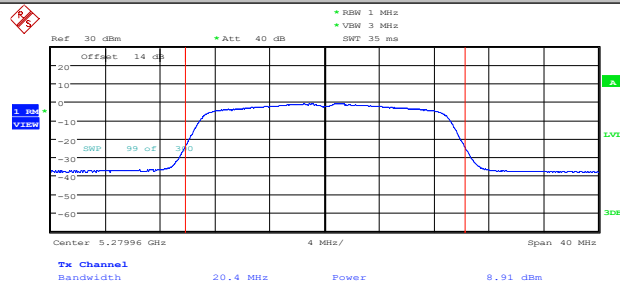
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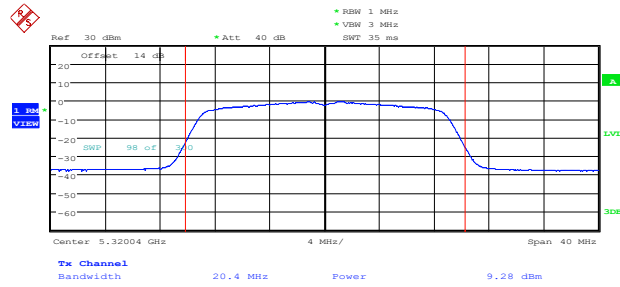
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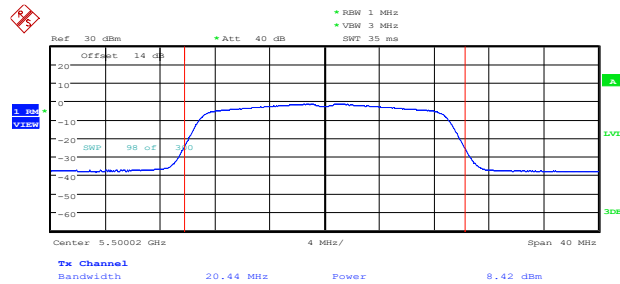
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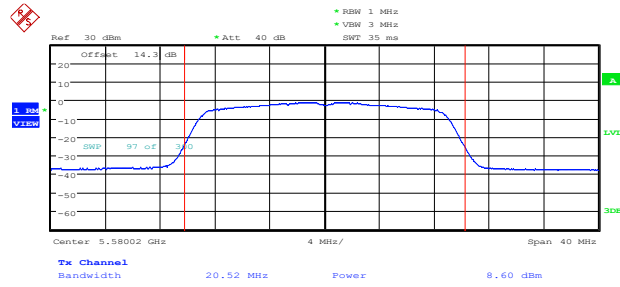
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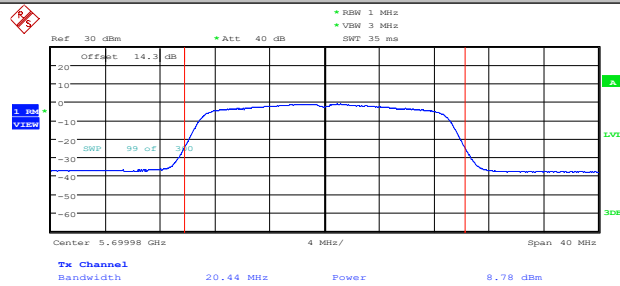
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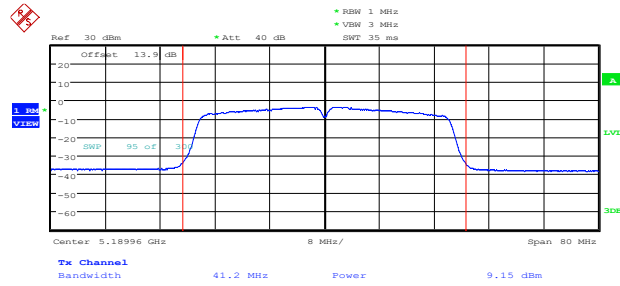
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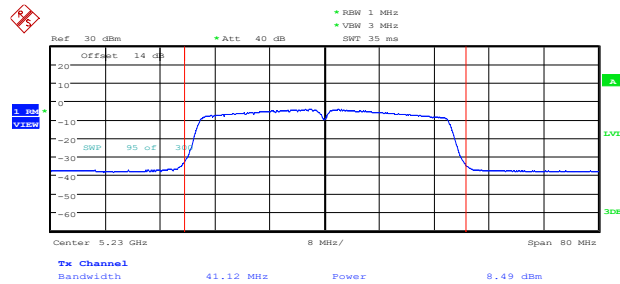
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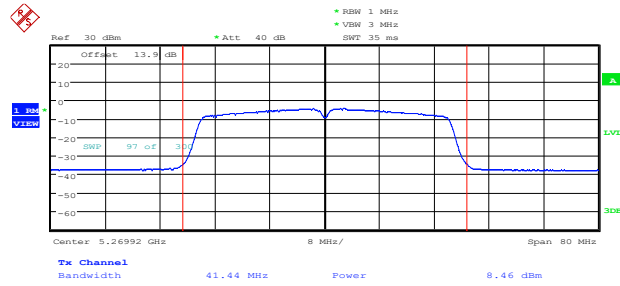
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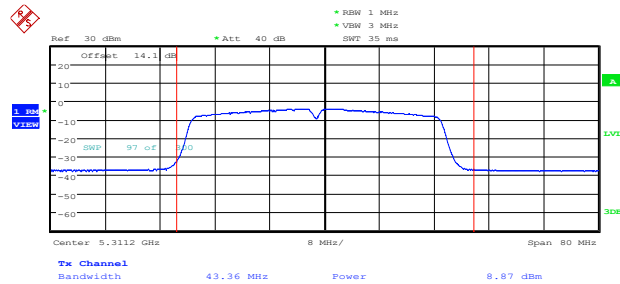
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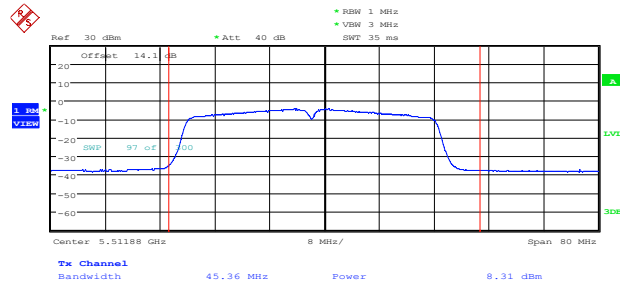
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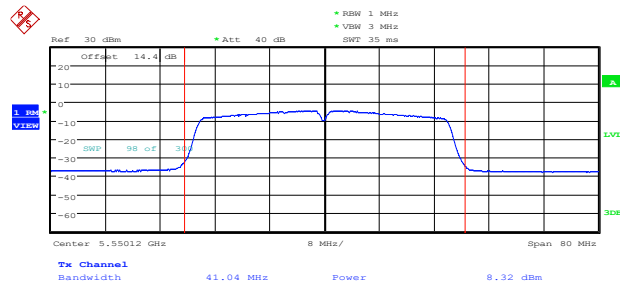
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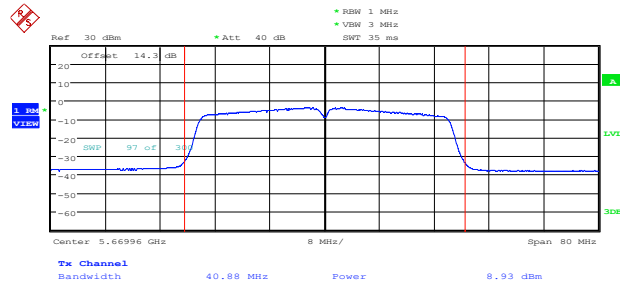
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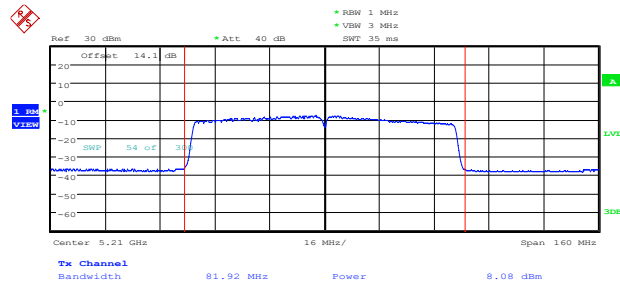
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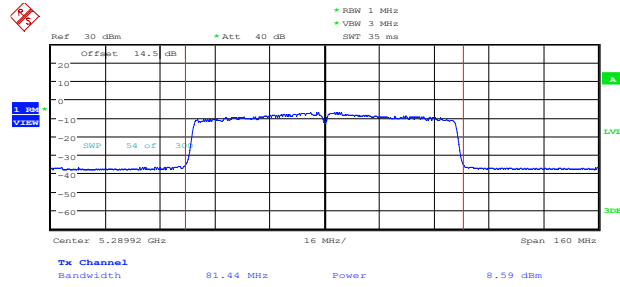
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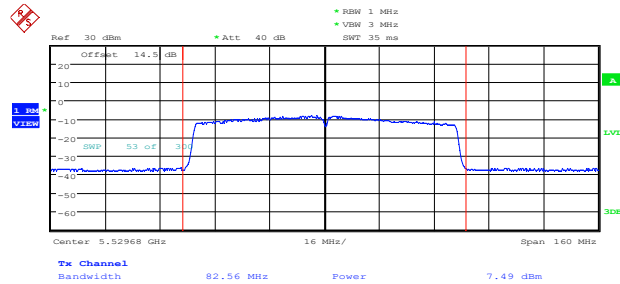
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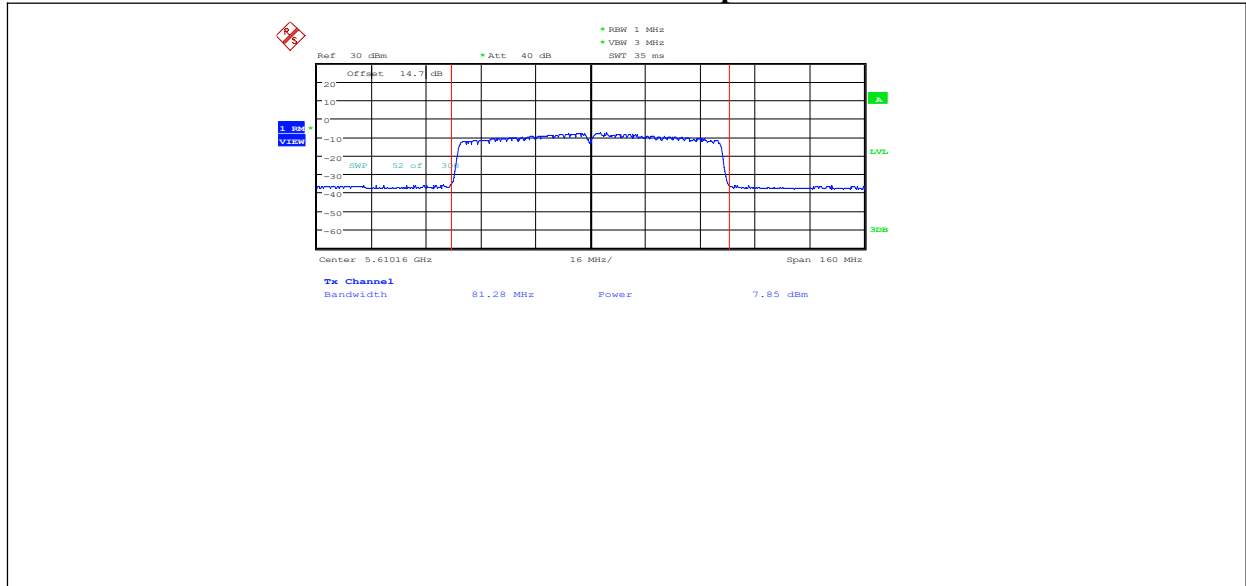
11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



6.4 Peak Power Spectral Density

Specifications:	FCC 47 CFR Part 15.407(a)
DUT Serial Number:	S4
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Measurement Limit and Method

Standard	Limit (dBm/MHz)	EIRP Limit (dBm/MHz)
FCC 47 CFR Part 15.407(a)(1)(iv)	≤ 17	≤ 17

Measurement Uncertainty:

Measurement Uncertainty	$\pm 0.48\text{dB}$
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The measurement method is made according to KDB 789033 F

- Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power..." (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Make the following adjustments to the peak value of the spectrum, if applicable:
 - If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
- The result is the Maximum PSD over 1 MHz reference bandwidth.
- For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement

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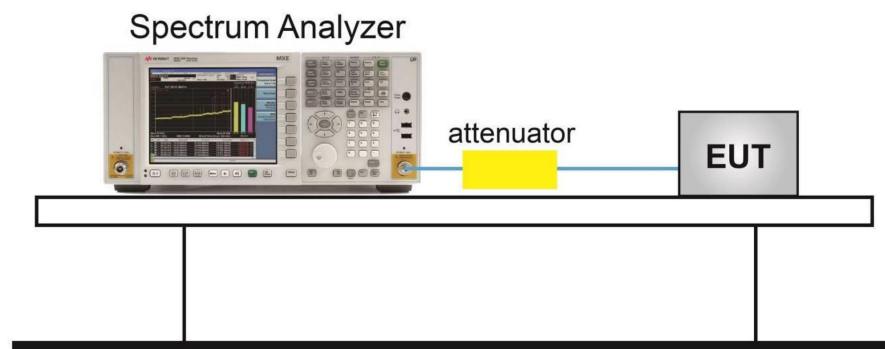
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bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in II.B.1.a).
- b) Set $VBW \geq 3$ RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/RBW)$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/RBW)$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for steps 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

Test setup



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Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.38	≤11.00	PASS
		5200	1.2	≤11.00	PASS
		5240	0.22	≤11.00	PASS
		5260	0.56	≤11.00	PASS
		5280	0.87	≤11.00	PASS
		5320	0.66	≤11.00	PASS
		5500	-0.07	≤11.00	PASS
		5580	0.01	≤11.00	PASS
		5700	0.25	≤11.00	PASS
11N20SISO	Ant1	5180	-0.57	≤11.00	PASS
		5200	-0.72	≤11.00	PASS
		5240	-0.9	≤11.00	PASS
		5260	-0.81	≤11.00	PASS
		5280	-0.78	≤11.00	PASS
		5320	-0.63	≤11.00	PASS
		5500	-2.08	≤11.00	PASS
		5580	-2.58	≤11.00	PASS
		5700	-2.03	≤11.00	PASS
11N40SISO	Ant1	5190	-3.55	≤11.00	PASS
		5230	-4.07	≤11.00	PASS
		5270	-4.3	≤11.00	PASS
		5310	-3.65	≤11.00	PASS
		5510	-4.94	≤11.00	PASS
		5550	-5.21	≤11.00	PASS
		5670	-4.23	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.75	≤11.00	PASS
		5200	-0.53	≤11.00	PASS
		5240	-1.3	≤11.00	PASS
		5260	-1.69	≤11.00	PASS
		5280	-1.29	≤11.00	PASS
		5320	-1.19	≤11.00	PASS
		5500	-2.12	≤11.00	PASS
		5580	-1.91	≤11.00	PASS
		5700	-1.66	≤11.00	PASS
11AC40SISO	Ant1	5190	-4.11	≤11.00	PASS
		5230	-4.75	≤11.00	PASS
		5270	-4.95	≤11.00	PASS
		5310	-4.57	≤11.00	PASS

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		5510	-4.86	≤ 11.00	PASS
		5550	-5.21	≤ 11.00	PASS
		5670	-4.3	≤ 11.00	PASS
11AC80SISO	Ant1	5210	-8.14	≤ 11.00	PASS
		5290	-7.55	≤ 11.00	PASS
		5530	-8.83	≤ 11.00	PASS
		5610	-7.99	≤ 11.00	PASS

Note:

1. Total PSD(dBm/ MHz)= $10 \cdot \log\{10(\text{Ant 0 PSD}/10) + 10(\text{Ant1 PSD}/10)\}$ (dBm/MHz).

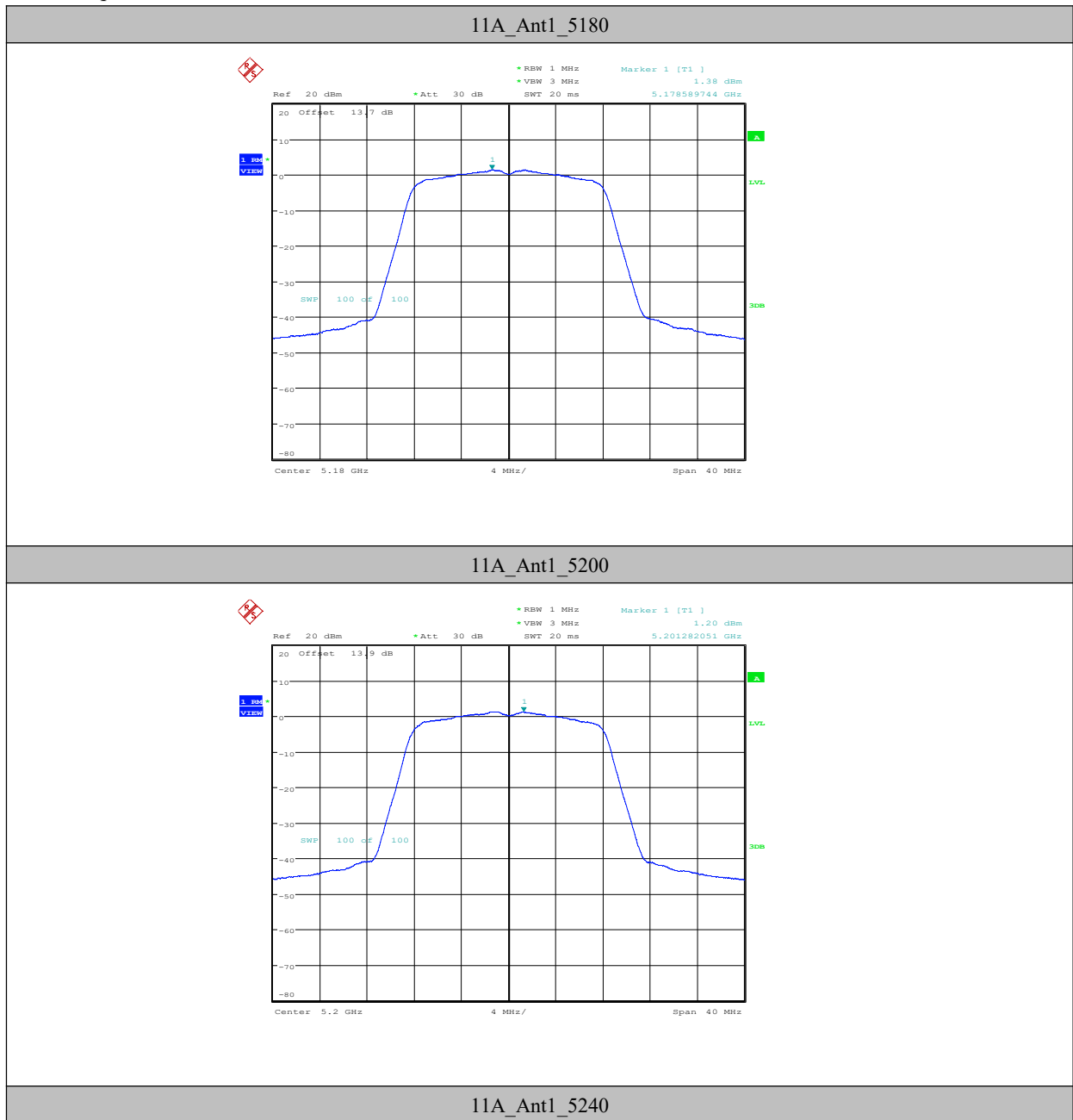
2. For the band 5.15-5.25 GHz, The Directional Gain =6.91 dBi, so the PSD Limit was calculated as below:

The PSD Limit (dBm/MHz)=[17 -(6.91 - 6)](dBm/MHz)= 16.09(dBm/MHz).

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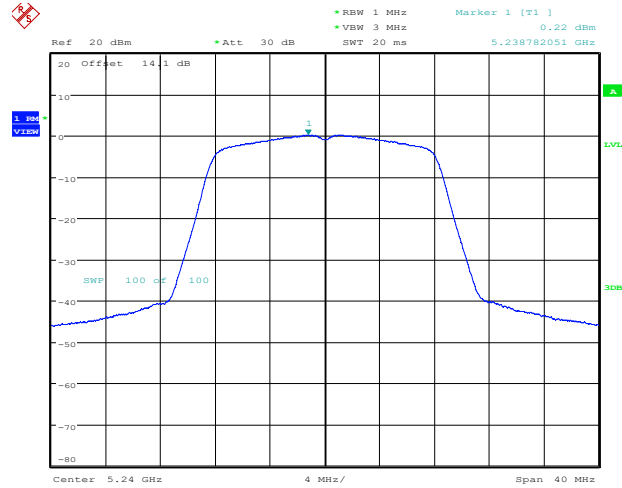
Test Graphs



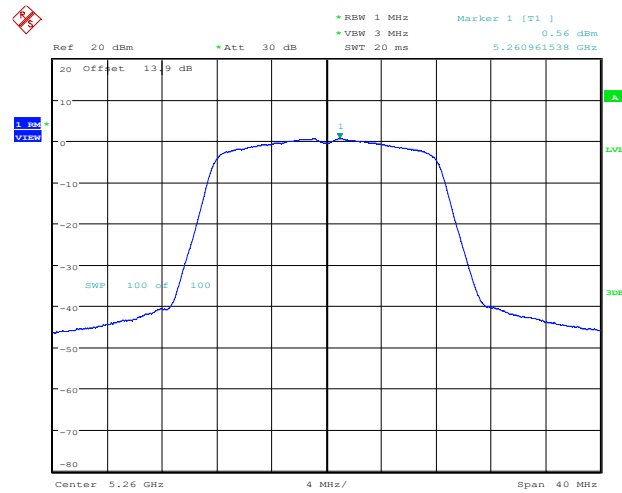
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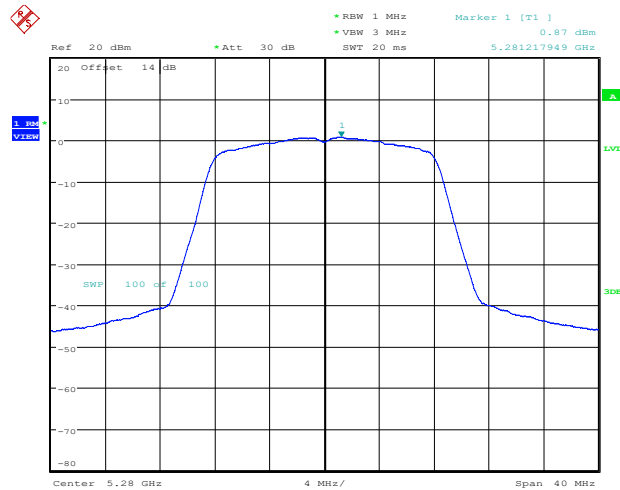
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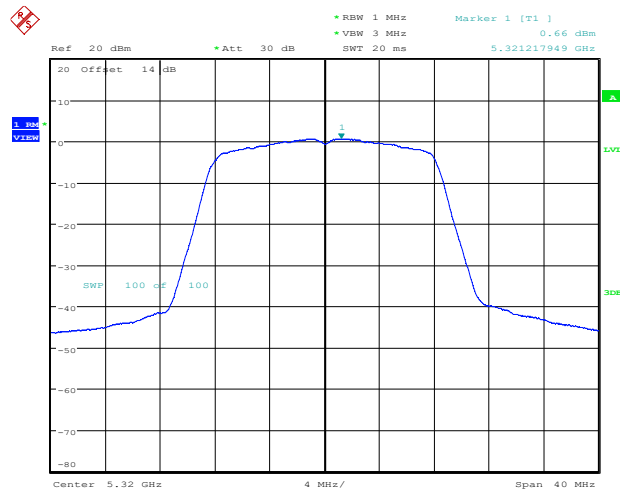
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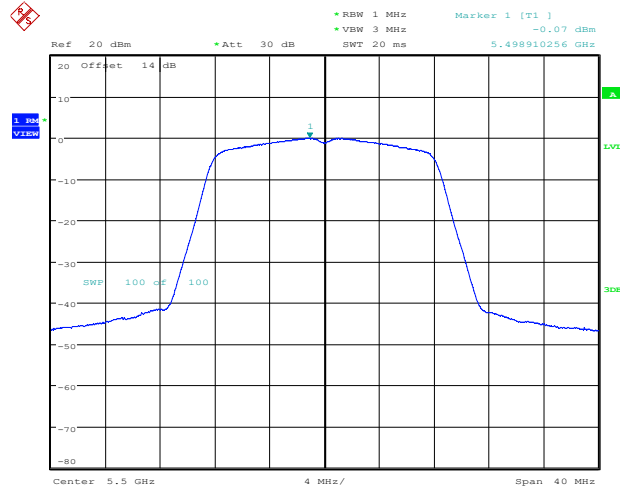
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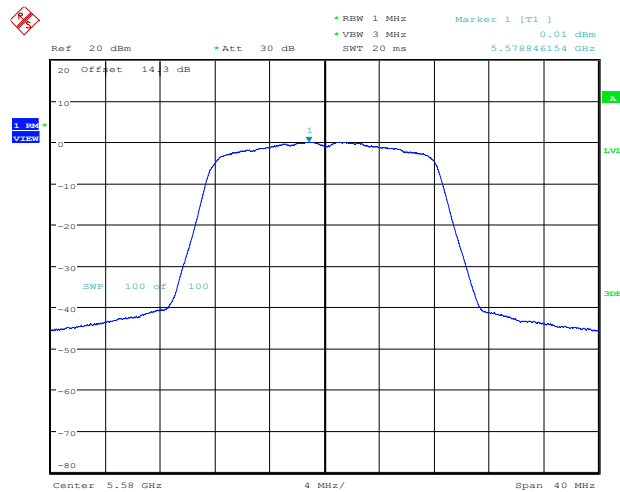
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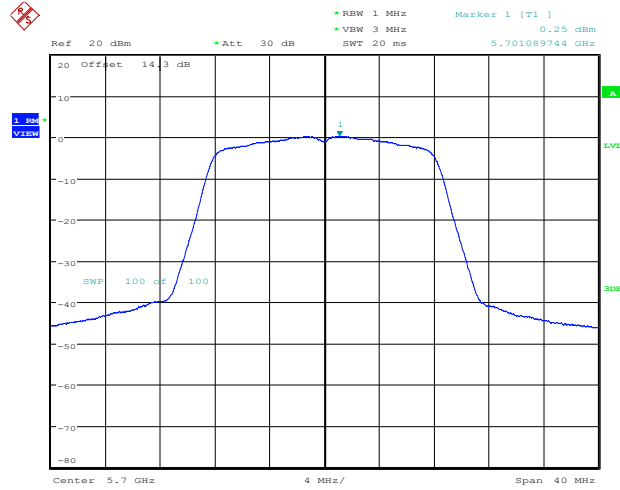
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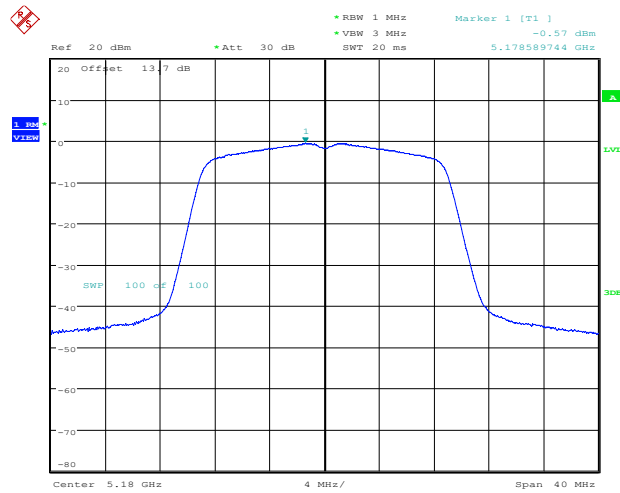
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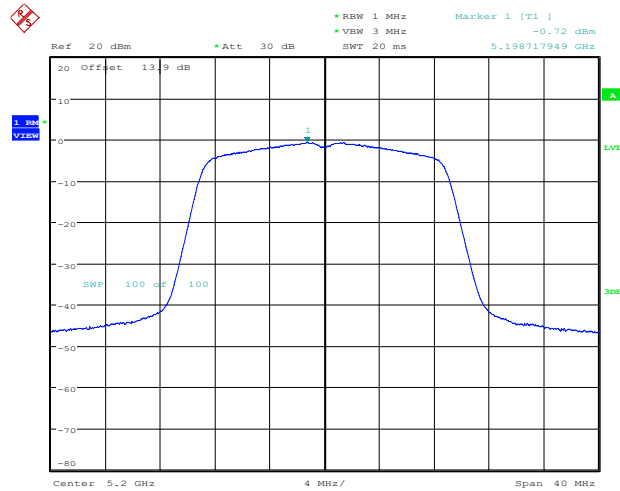
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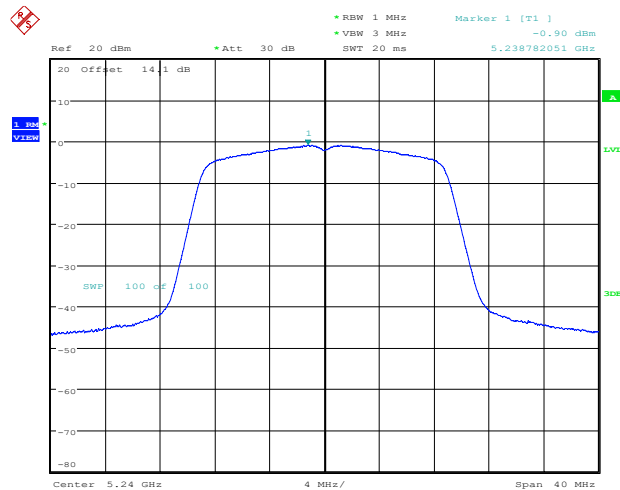
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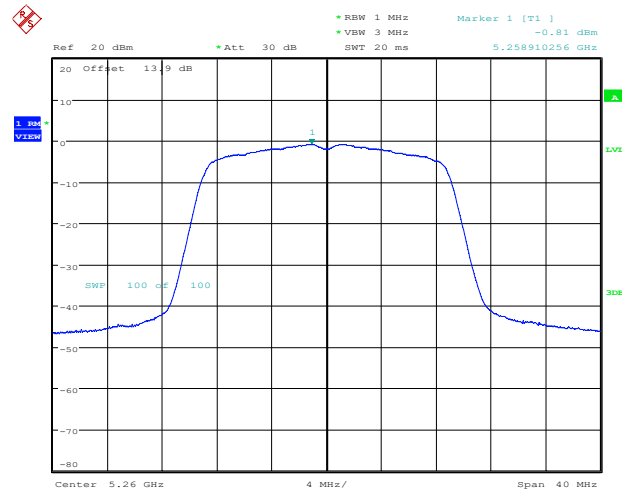
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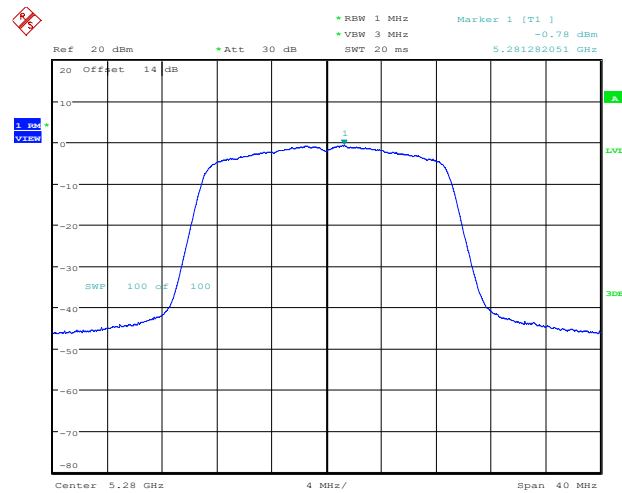
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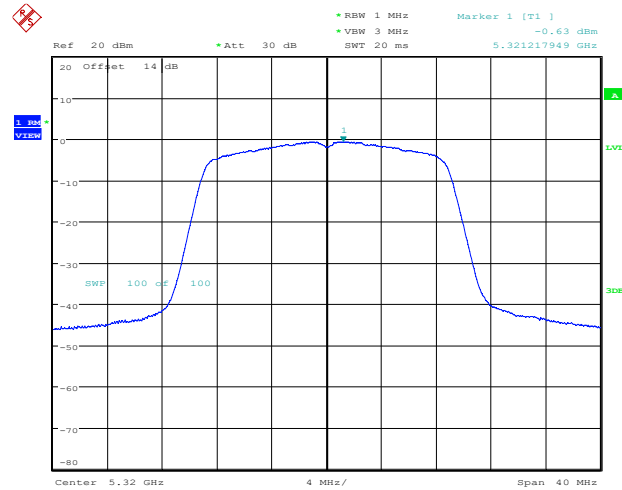


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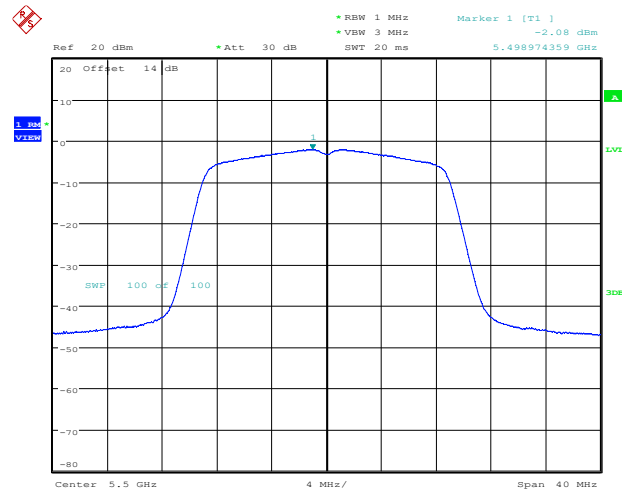


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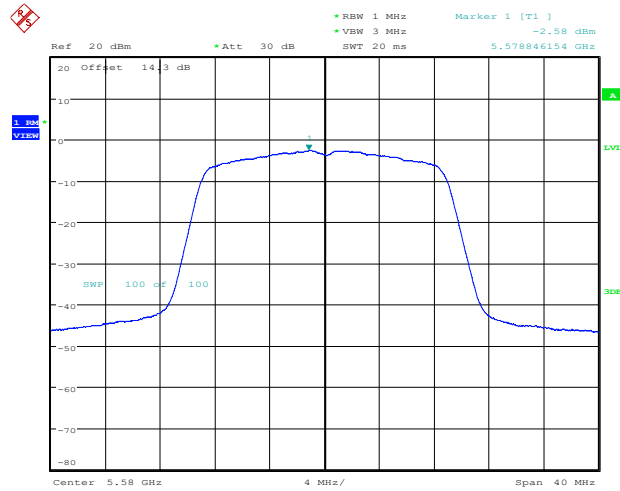
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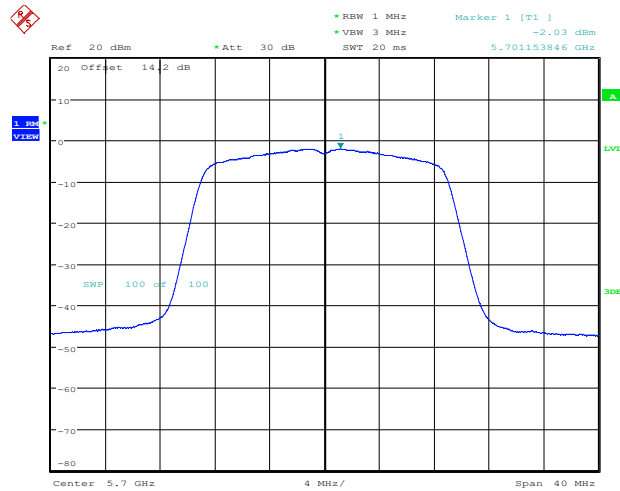
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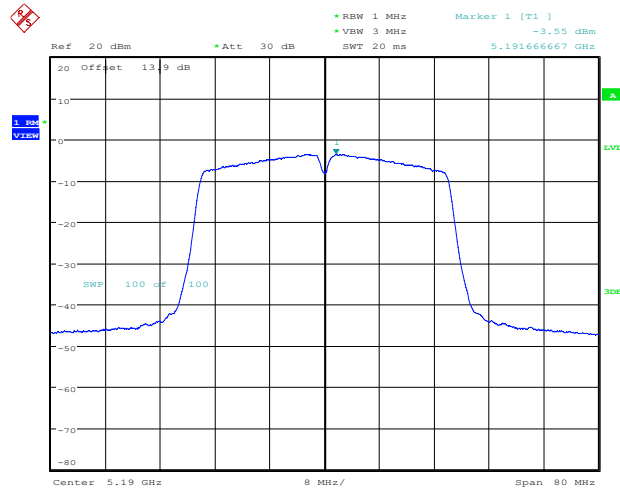
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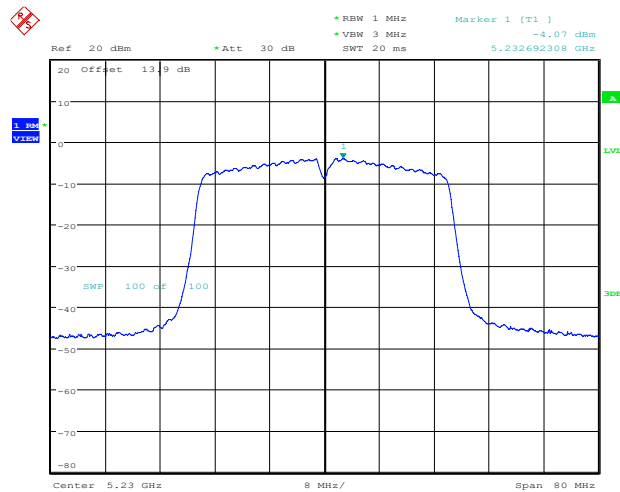
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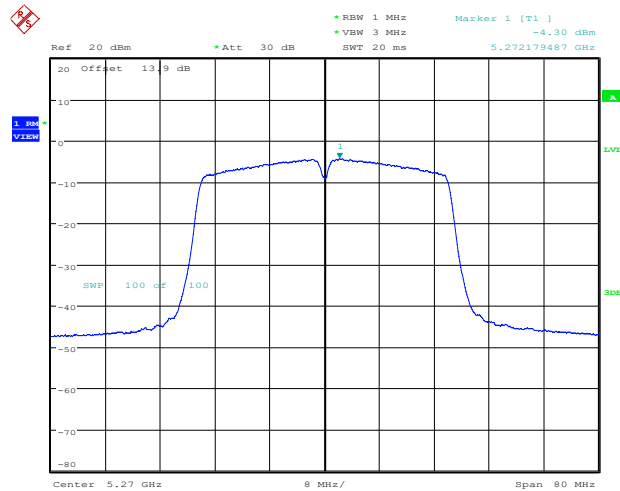
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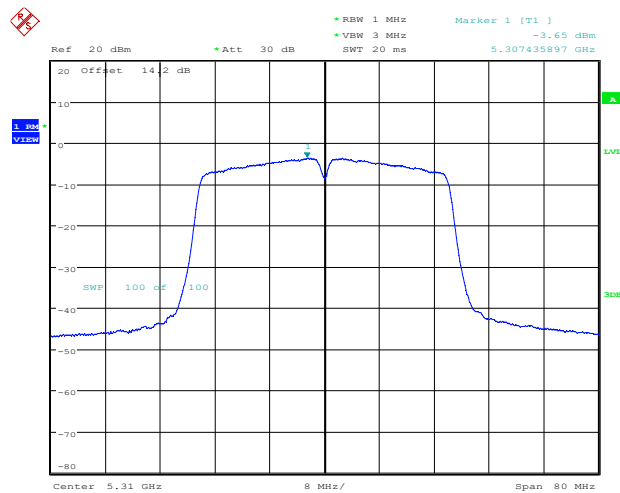
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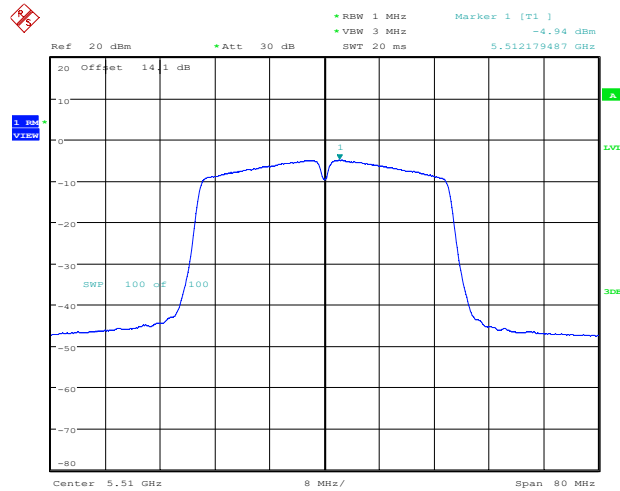
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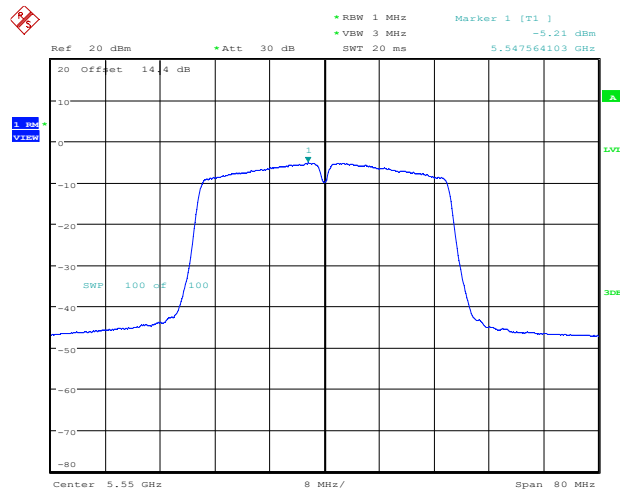
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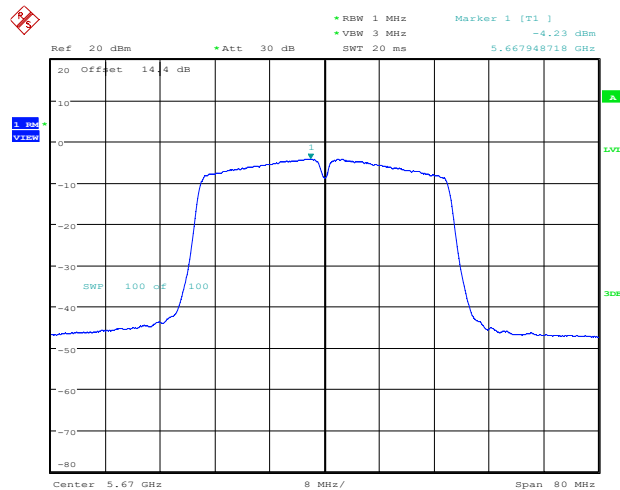
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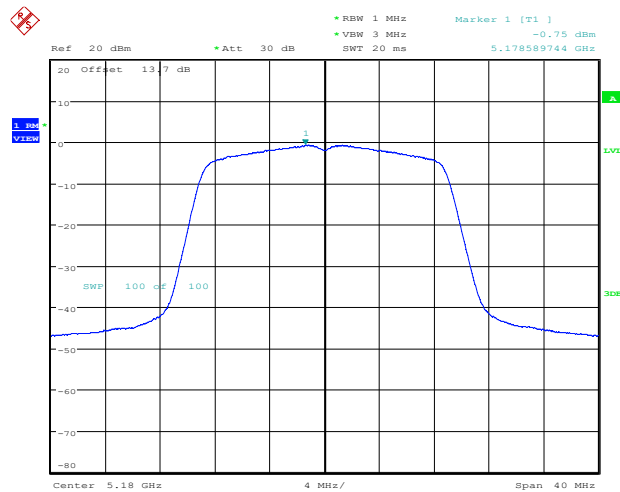
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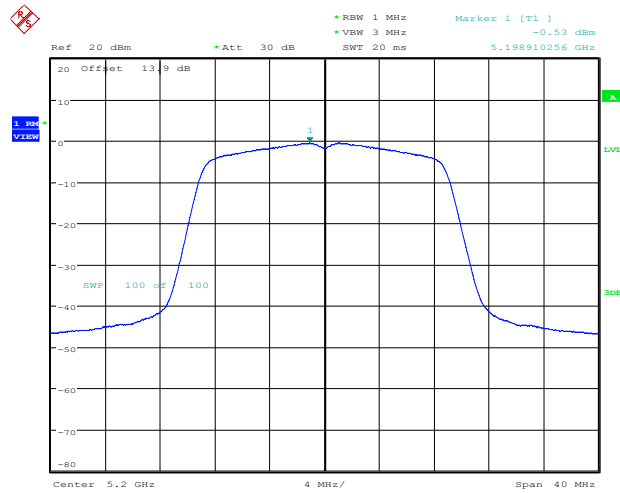
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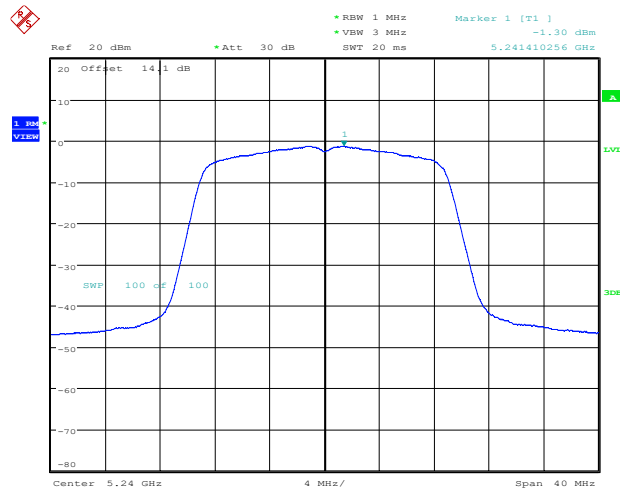
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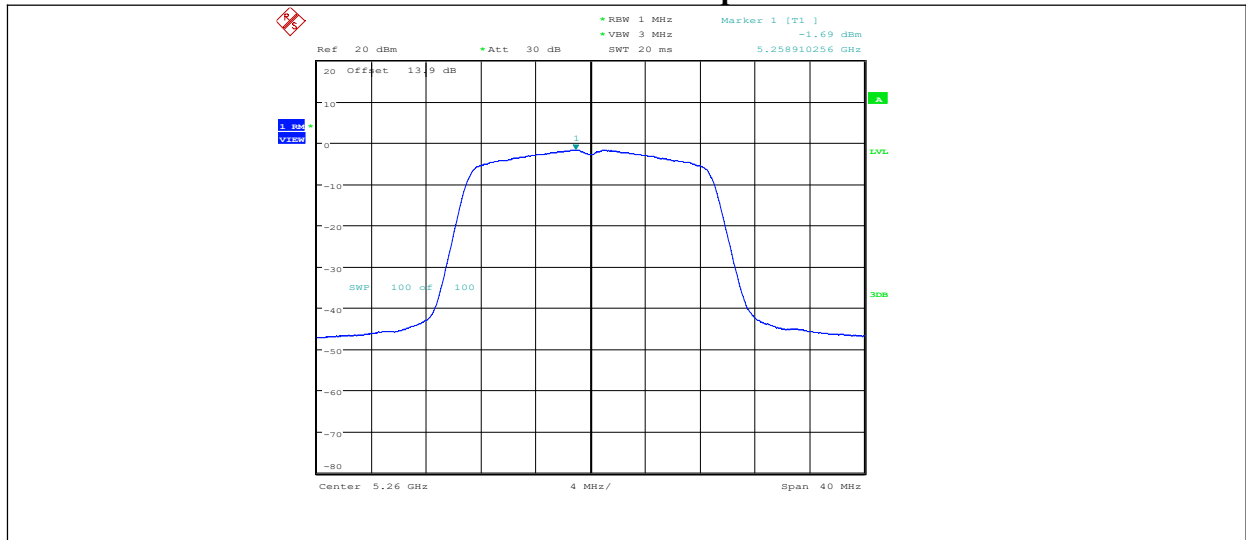


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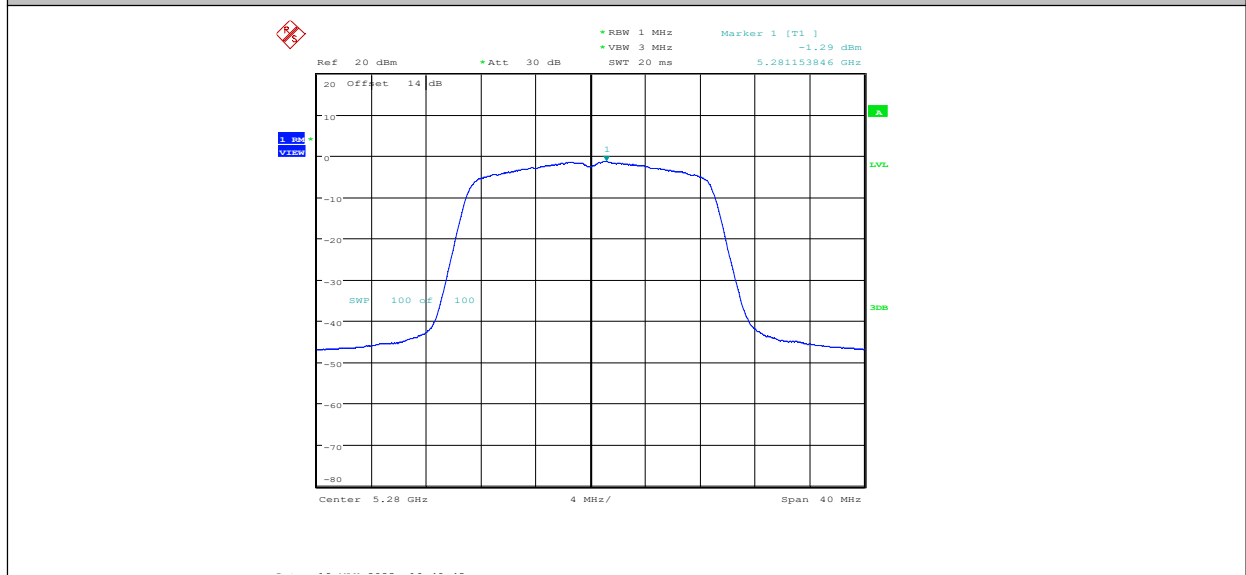


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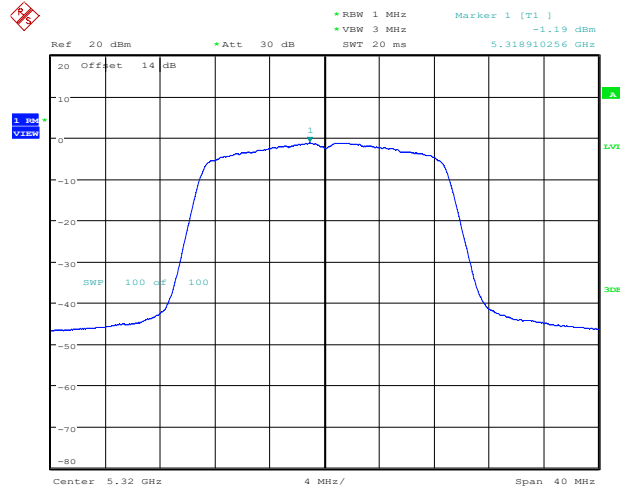
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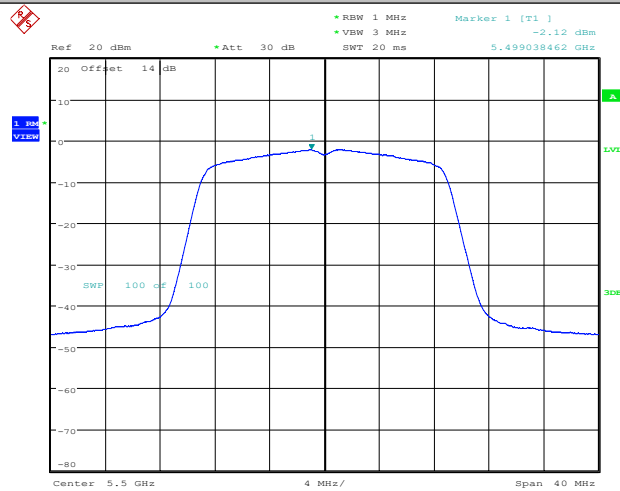
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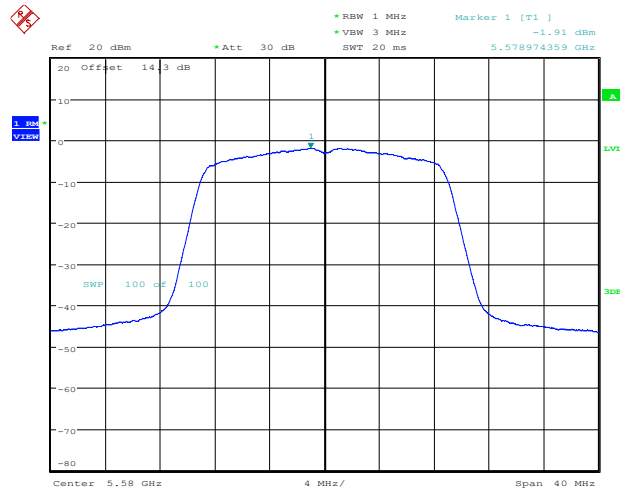
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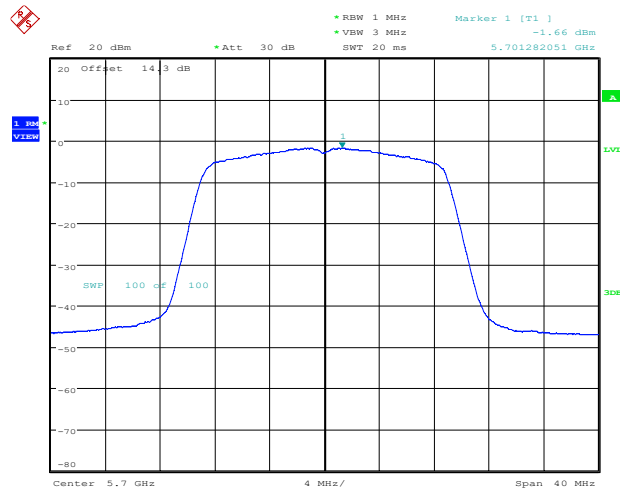
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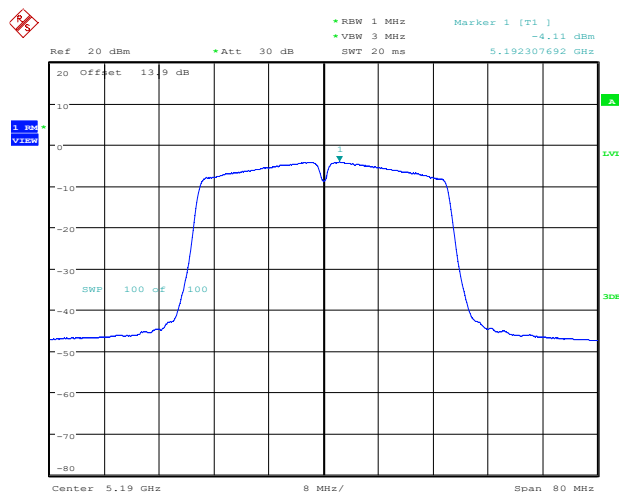
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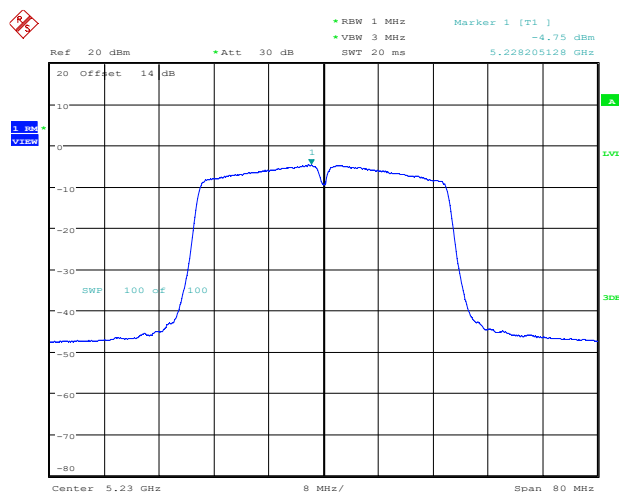
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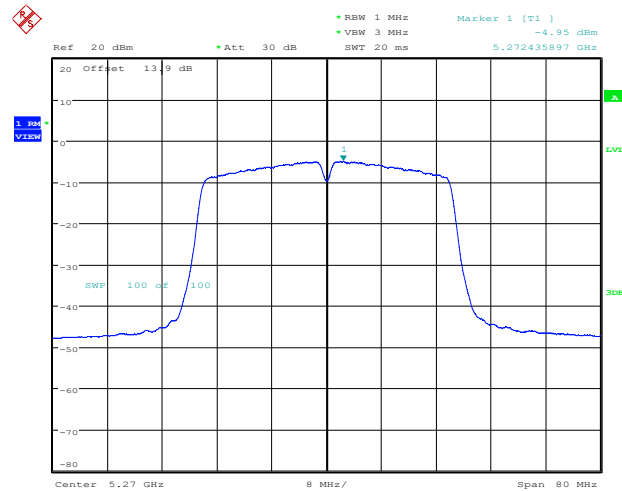
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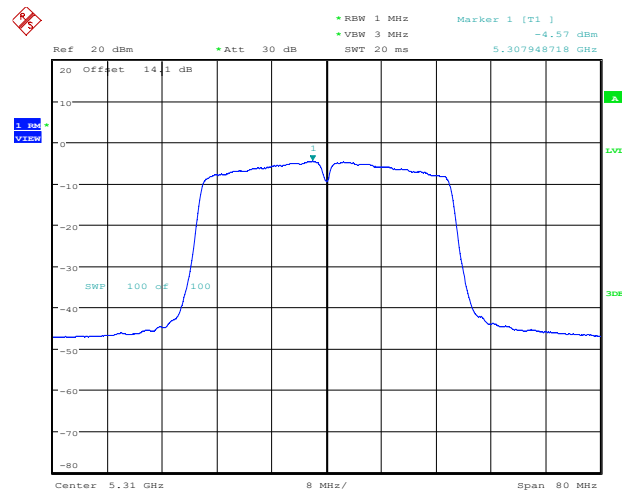
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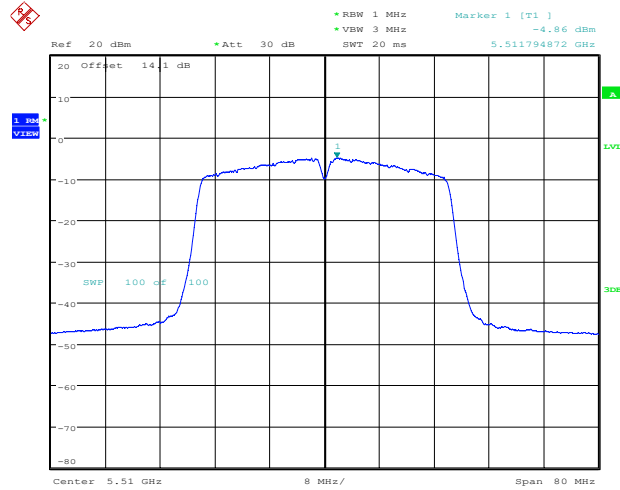
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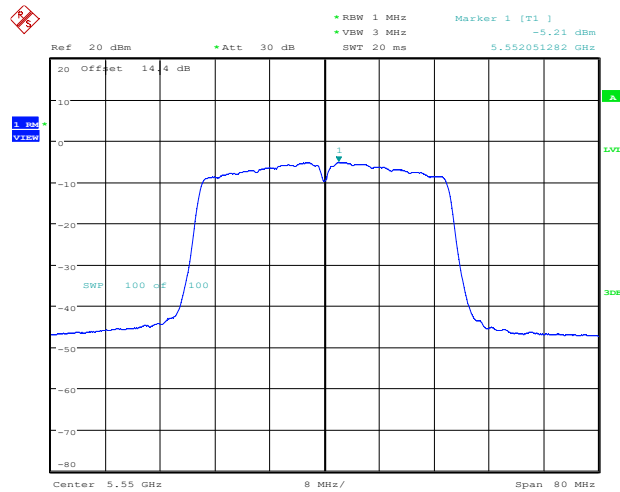
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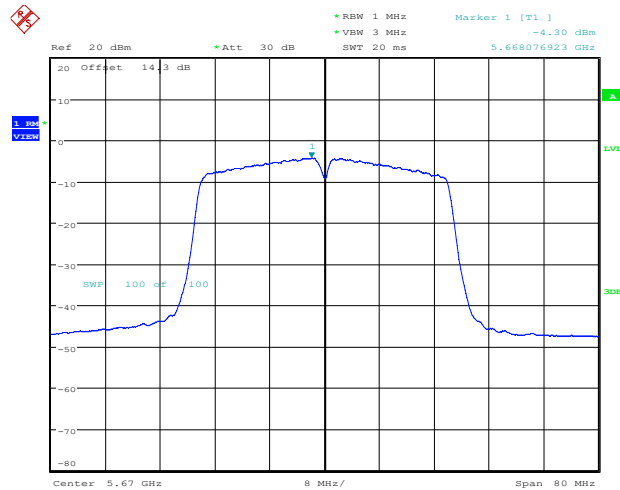
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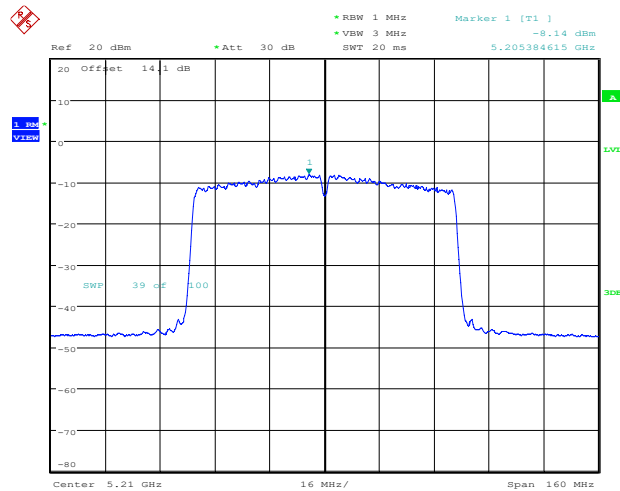
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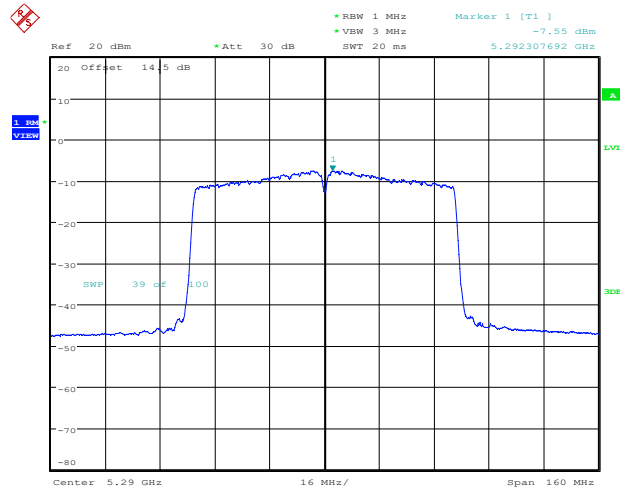
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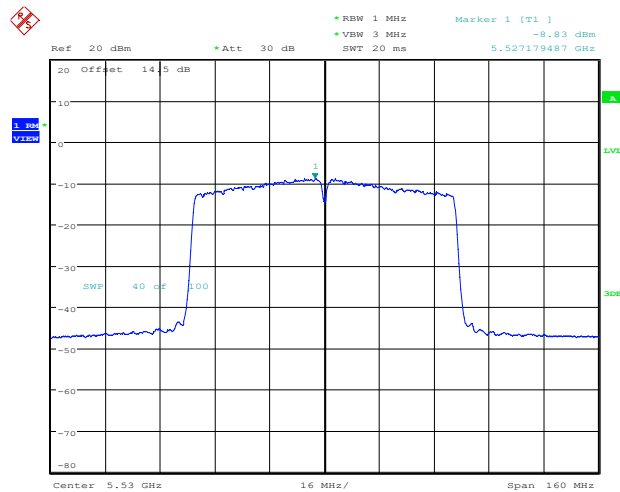
11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



Ref 20 dBm Att 30 dB RBW 1 MHz VBW 3 MHz SWT 20 ms Marker 1 {T1} -7.99 dBm 5.613076923 GHz

Offset 14.7 dB

SWP 39 dB 100

1.000 V/div

1 A

1V

30B

Center 5.61 GHz 16 MHz/Div Span 160 MHz

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6.5 99% Occupied Bandwidth

Specifications:	FCC 47 CFR Part 15.407(a)
DUT Serial Number:	S4
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Measurement Limit and Method

Standard	Limit(MHz)
FCC 47 CFR Part 15.407(a)	N/A

Measurement Uncertainty:

Measurement Uncertainty	20kHz
-------------------------	-------

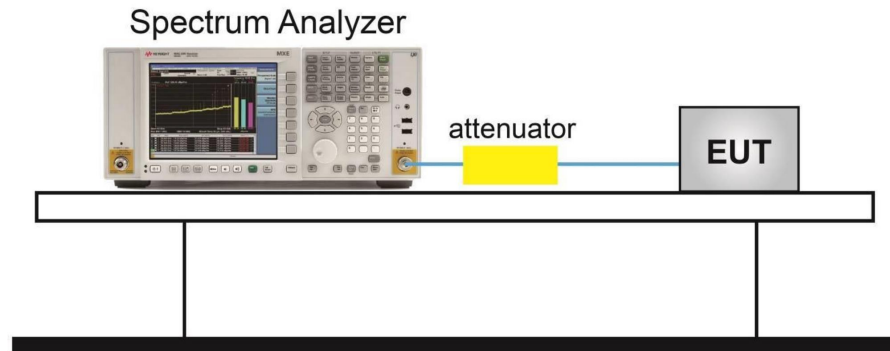
measurement method is made according to KDB 789033 D

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set VBW $\geq 3 \cdot$ RBW
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99 % power bandwidth function of the instrument (if available).
- If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Test Setup

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Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.32	5171.2800	5188.6000	---	---
		5200	17.44	5191.2400	5208.6800	---	---
		5240	17.44	5231.2400	5248.6800	---	---
		5260	17.44	5251.2400	5268.6800	---	---
		5280	17.4	5271.2800	5288.6800	---	---
		5320	17.4	5311.2800	5328.6800	---	---
		5500	17.48	5491.2800	5508.7600	---	---
		5580	17.48	5571.2800	5588.7600	---	---
		5700	17.4	5691.2400	5708.6400	---	---
11N20SISO	Ant1	5180	18.36	5170.7600	5189.1200	---	---
		5200	18.4	5190.7600	5209.1600	---	---
		5240	18.28	5230.8400	5249.1200	---	---
		5260	18.4	5250.7600	5269.1600	---	---
		5280	18.36	5270.8000	5289.1600	---	---
		5320	18.36	5310.8000	5329.1600	---	---
		5500	18.48	5490.8000	5509.2800	---	---
		5580	18.4	5570.8400	5589.2400	---	---
		5700	18.36	5690.7600	5709.1200	---	---
11N40SISO	Ant1	5190	36.96	5171.4400	5208.4000	---	---
		5230	36.96	5211.5200	5248.4800	---	---
		5270	37.04	5251.4400	5288.4800	---	---
		5310	36.96	5291.5200	5328.4800	---	---
		5510	37.04	5491.6000	5528.6400	---	---
		5550	37.04	5531.5200	5568.5600	---	---
		5670	36.96	5651.4400	5688.4000	---	---
11AC20SISO	Ant1	5180	18.24	5170.8800	5189.1200	---	---
		5200	18.24	5190.8400	5209.0800	---	---
		5240	18.16	5230.9200	5249.0800	---	---
		5260	18.28	5250.8000	5269.0800	---	---
		5280	18.2	5270.9200	5289.1200	---	---
		5320	18.2	5310.9200	5329.1200	---	---
		5500	18.28	5490.8800	5509.1600	---	---
		5580	18.28	5570.8800	5589.1600	---	---
		5700	18.2	5690.8800	5709.0800	---	---
11AC40SISO	Ant1	5190	36.64	5171.6000	5208.2400	---	---
		5230	36.72	5211.6000	5248.3200	---	---
		5270	36.72	5251.6000	5288.3200	---	---
		5310	36.72	5291.6000	5328.3200	---	---

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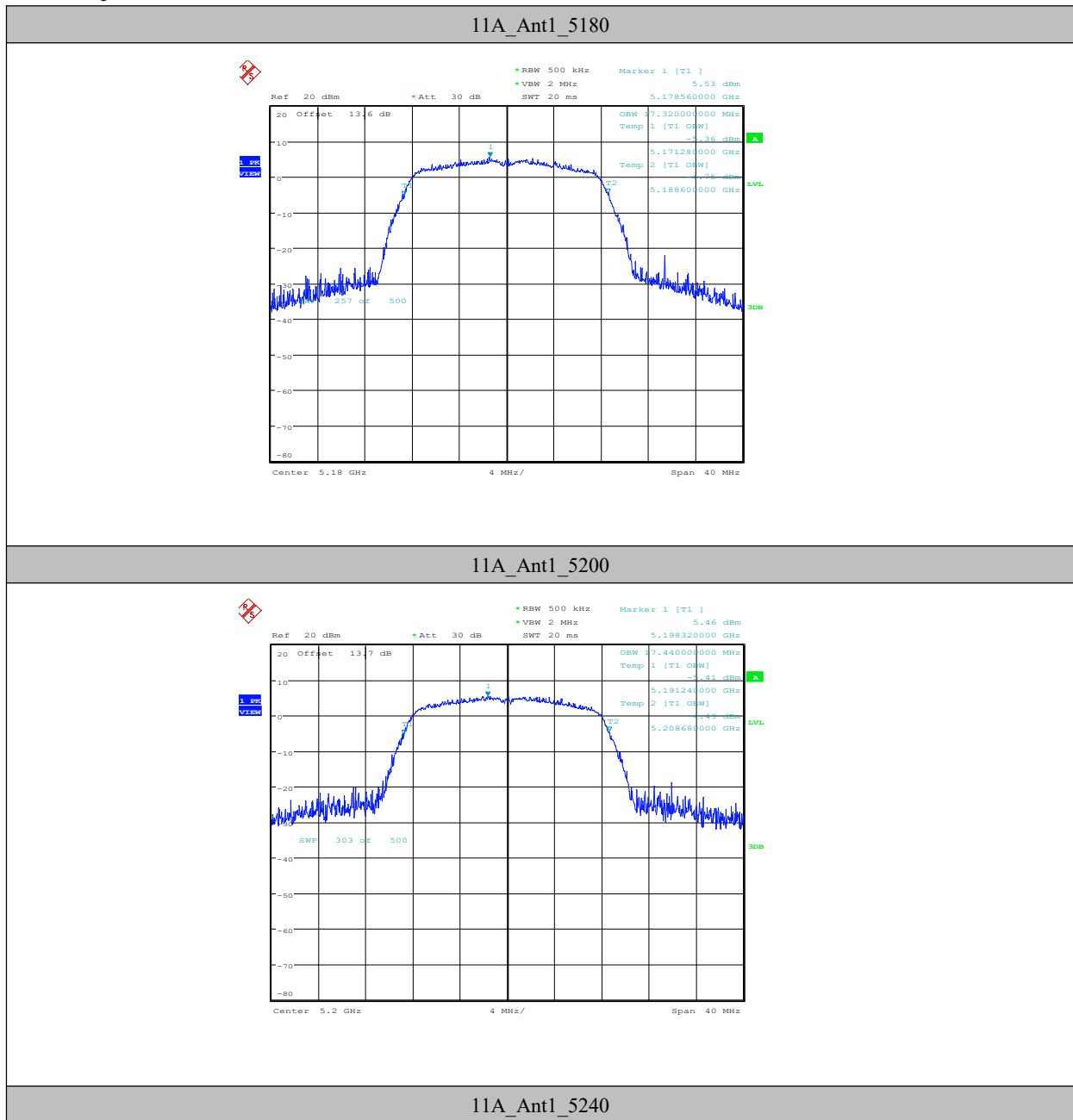
Report No.: 123W00020-WIFI 5G RF

		5510	36.64	5491.6800	5528.3200	---	---
		5550	36.72	5531.6800	5568.4000	---	---
		5670	36.64	5651.6800	5688.3200	---	---
11AC80SISO	Ant1	5210	75.68	5172.0800	5247.7600	---	---
		5290	75.84	5252.0800	5327.9200	---	---
		5530	75.68	5492.2400	5567.9200	---	---
		5610	75.52	5572.4000	5647.9200	---	---

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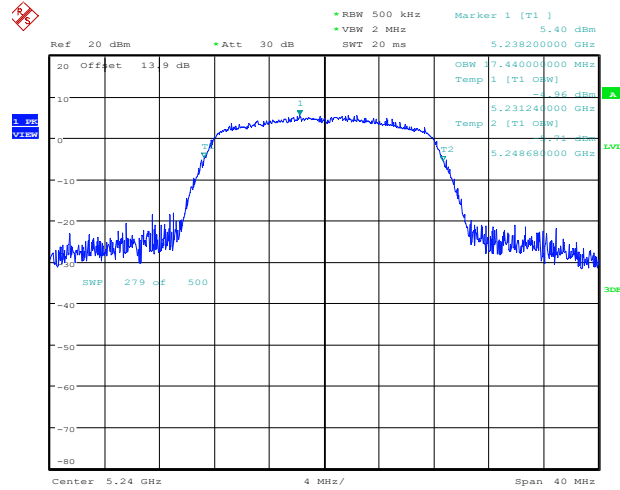
Test Graphs



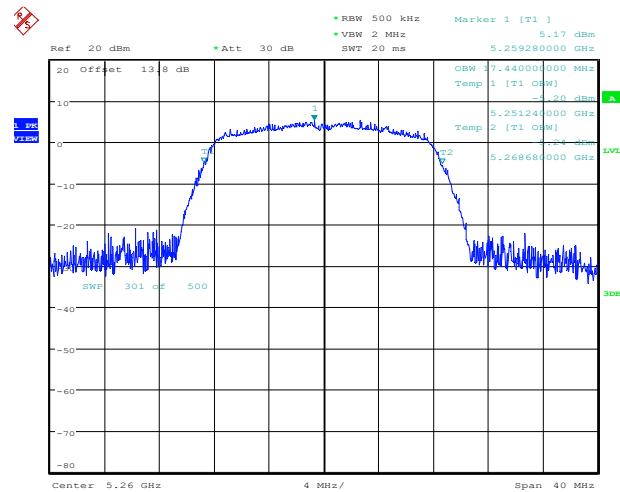
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11A_Ant1_5260

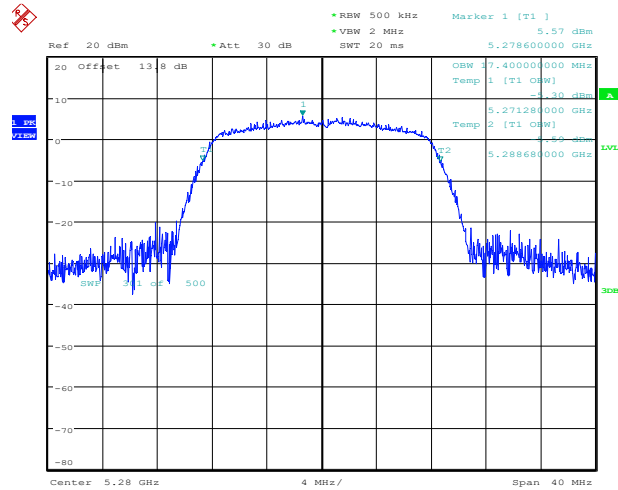


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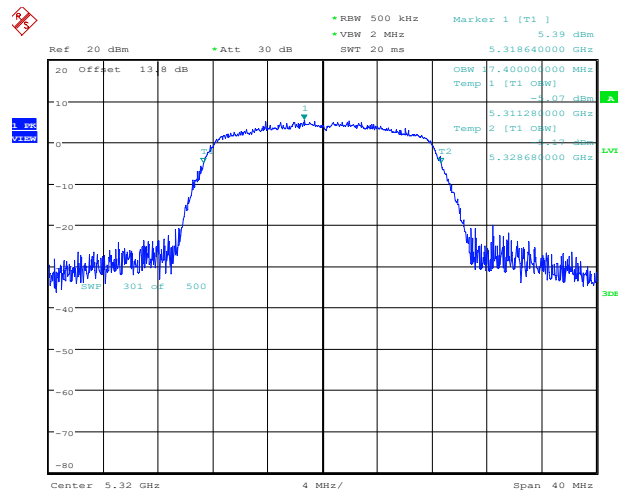
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11A_Ant1_5320

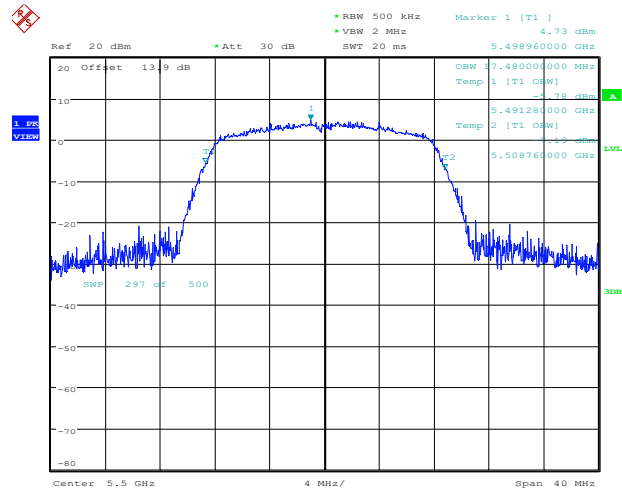


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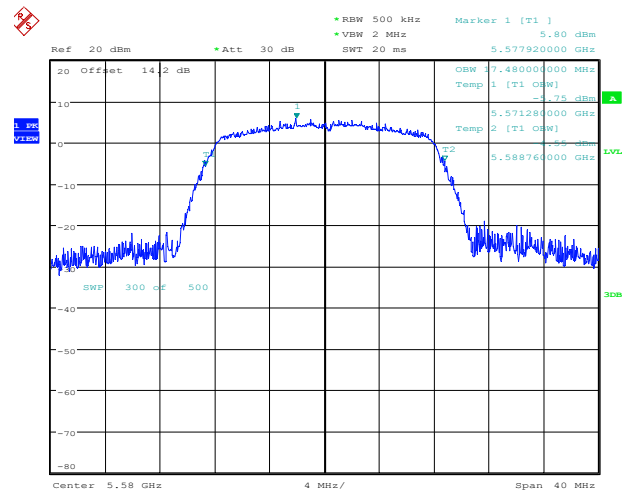
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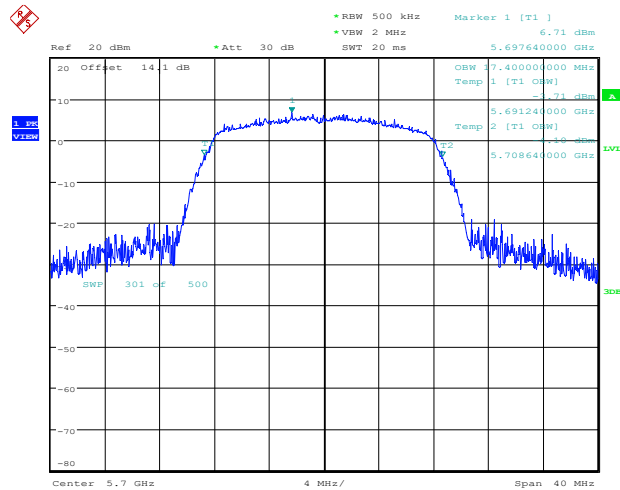


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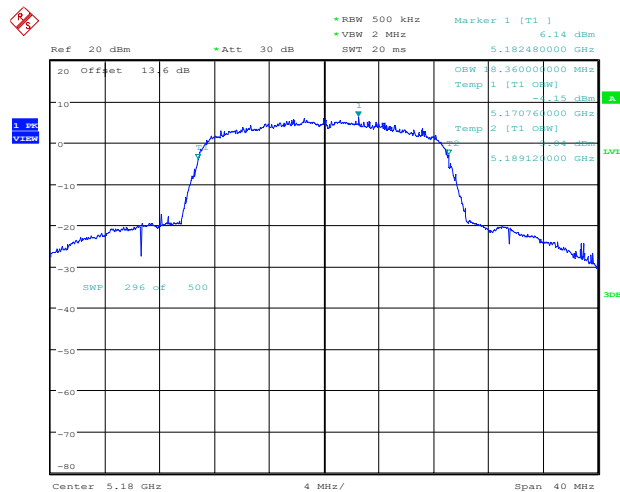
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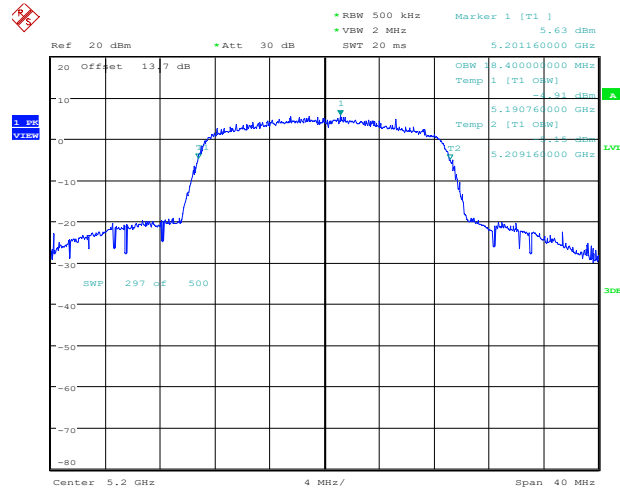


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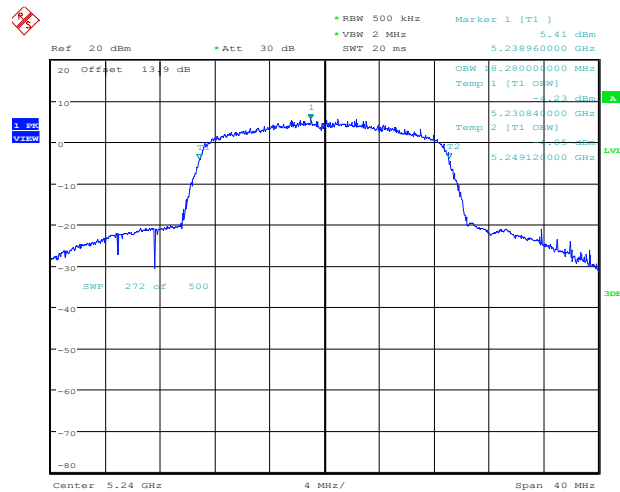
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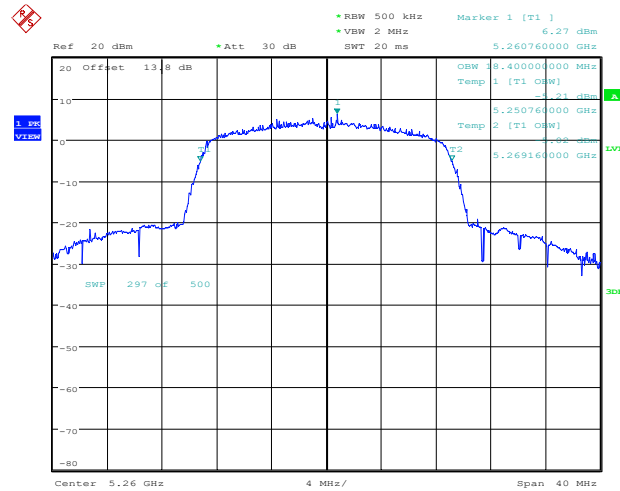


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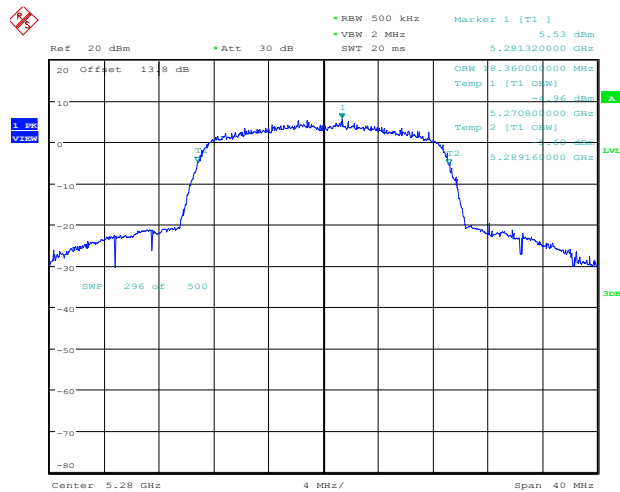
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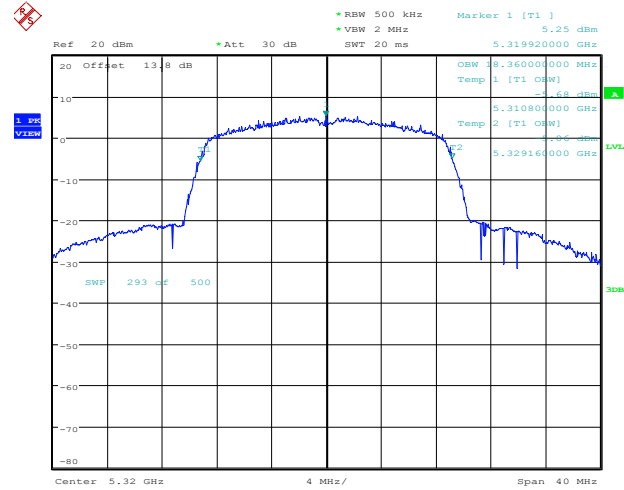


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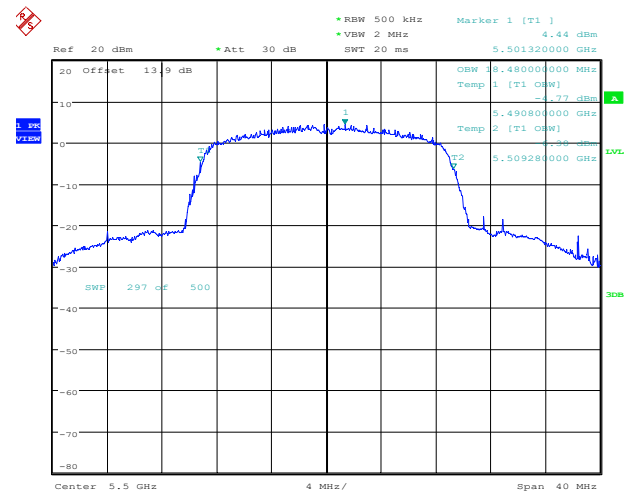
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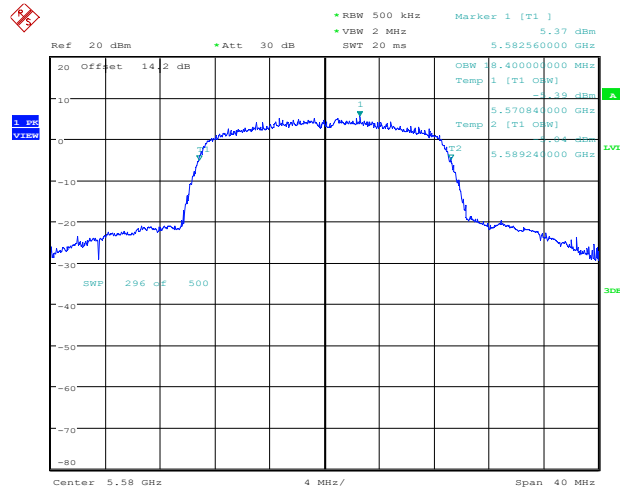


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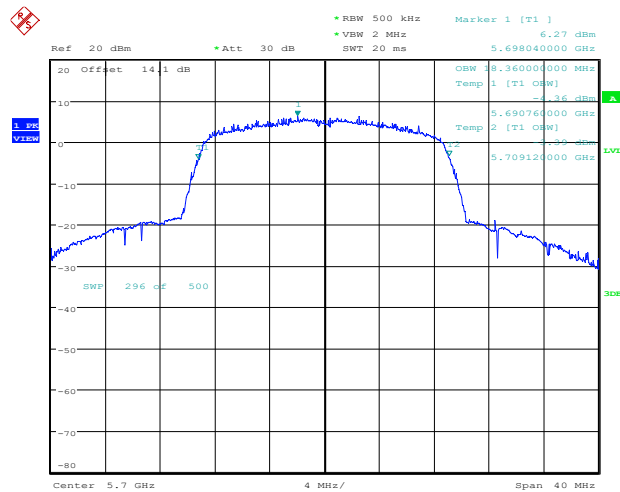
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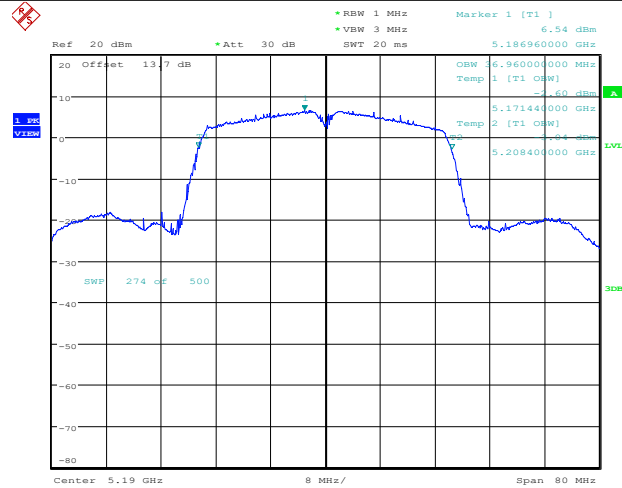


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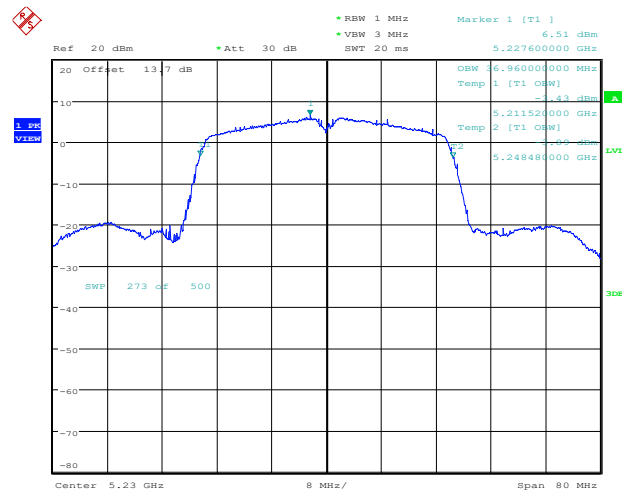
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11N40SISO_Ant1_5230

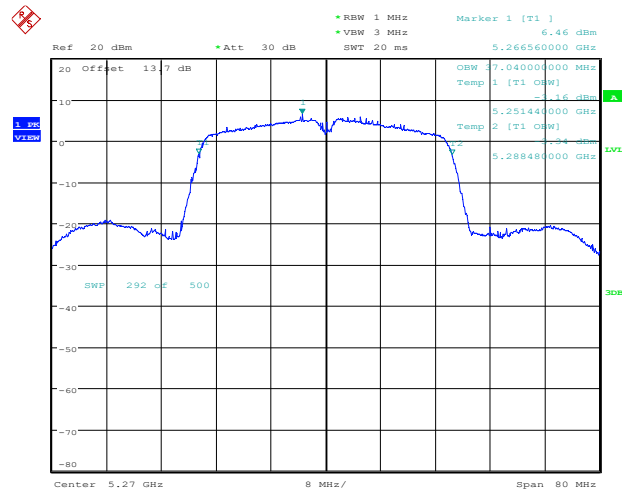


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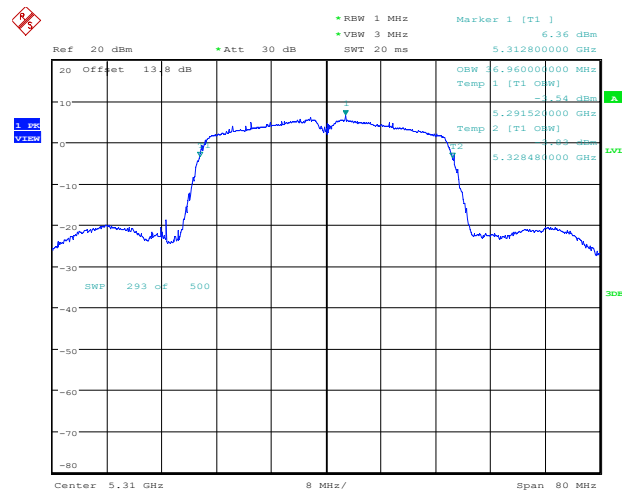
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11N40SISO_Ant1_5310

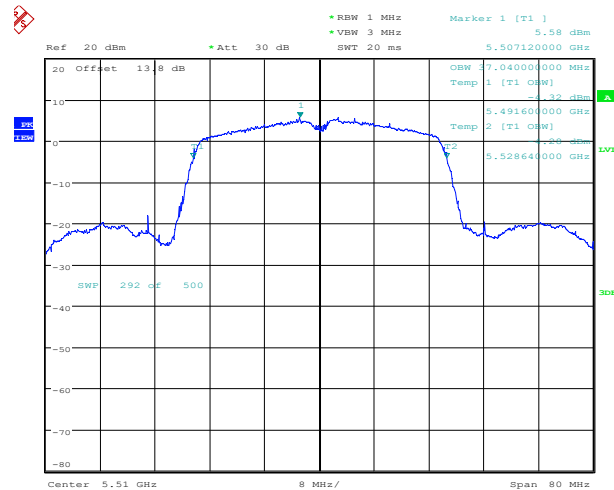


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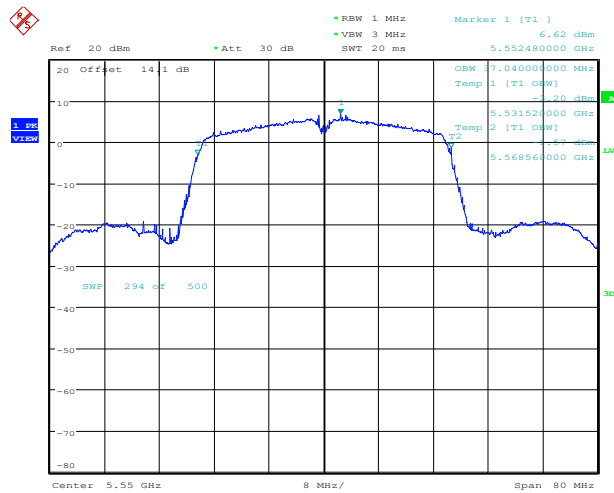
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11N40SISO_Ant1_5550

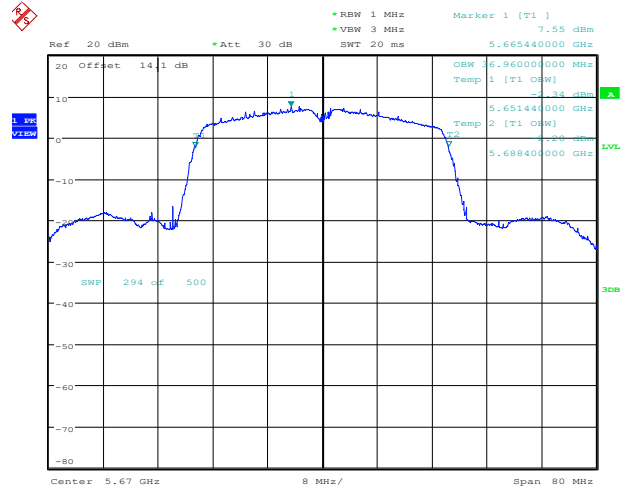


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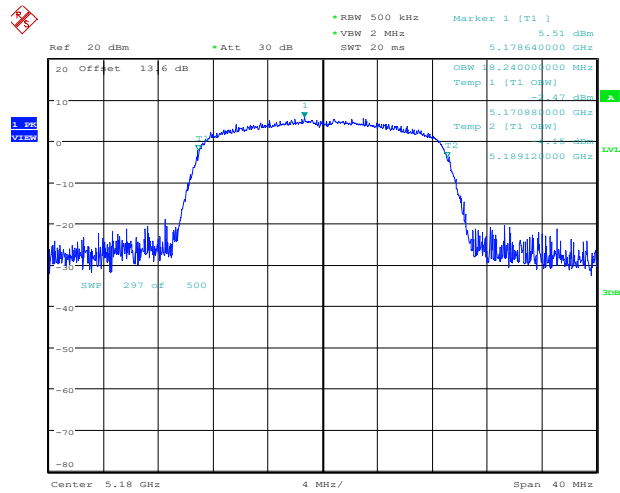
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11AC20SISO_Ant1_5180

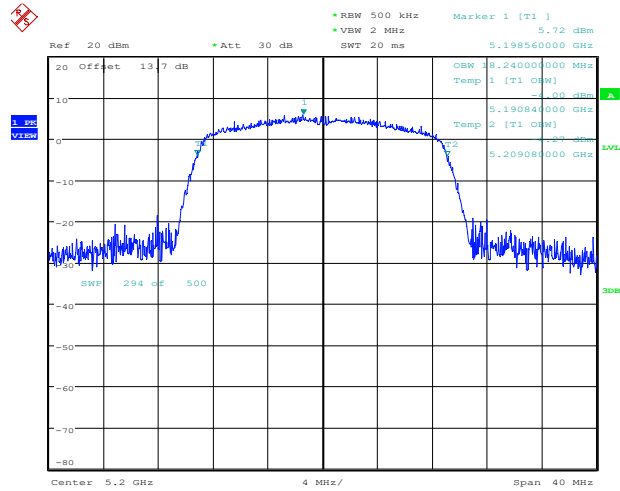


11AC20SISO_Ant1_5200

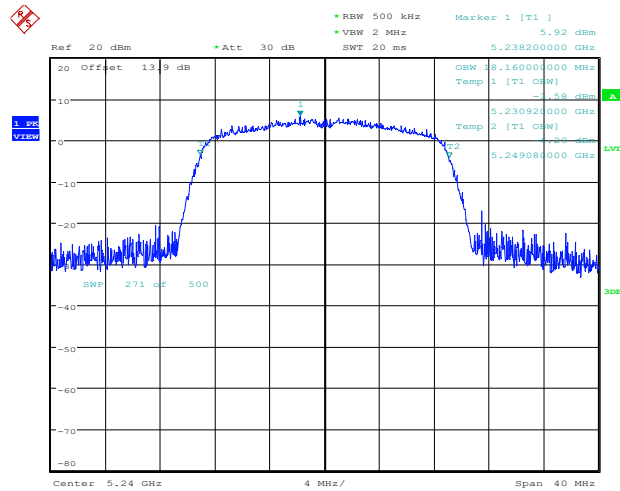
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11AC20SISO_Ant1_5240

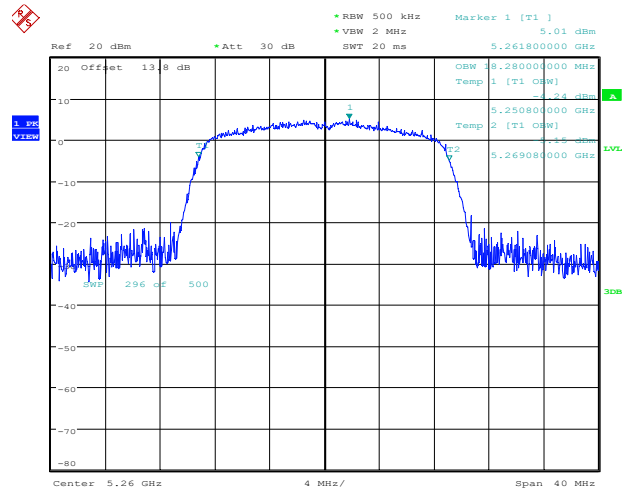


11AC20SISO_Ant1_5260

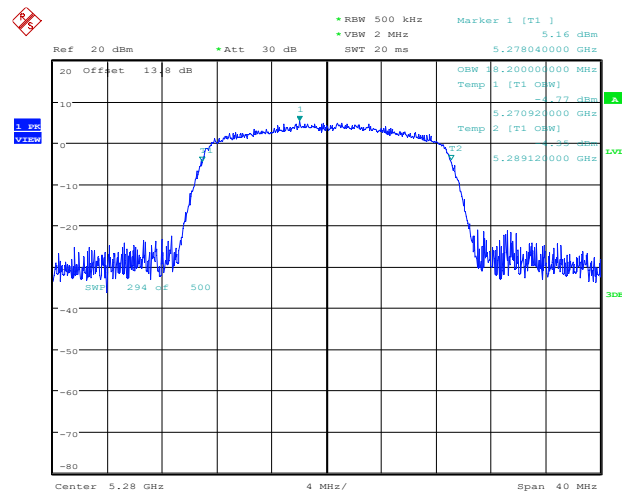
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11AC20SISO_Ant1_5280

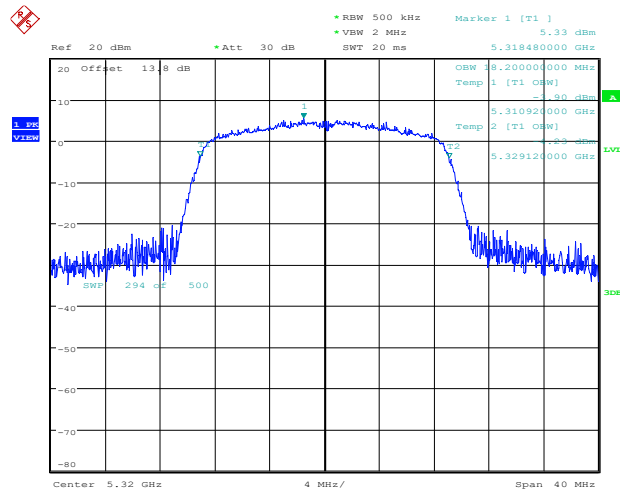


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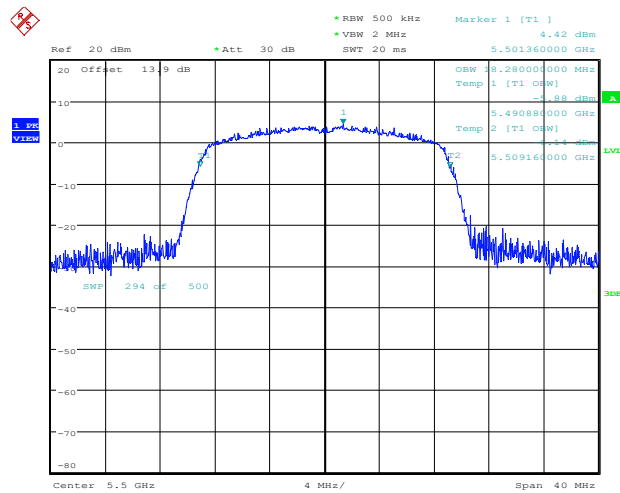
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11AC20SISO_Ant1_5500

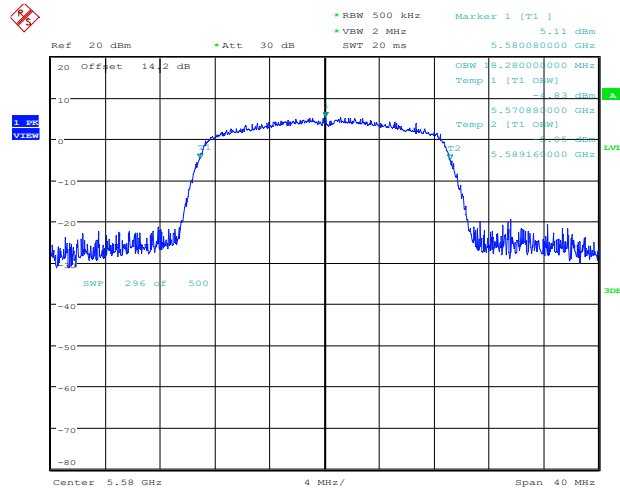


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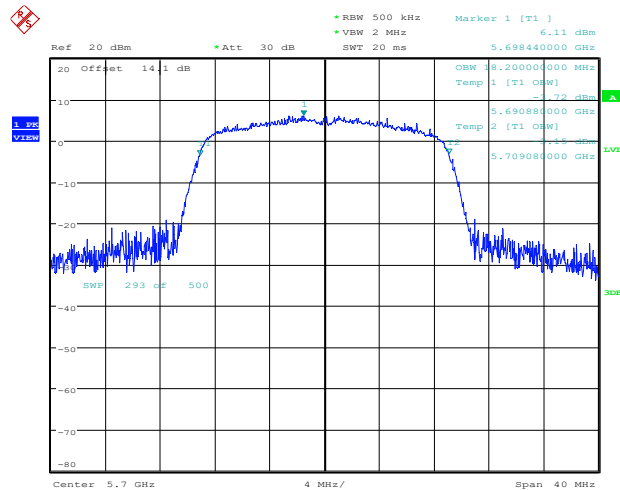
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11AC20SISO_Ant1_5700

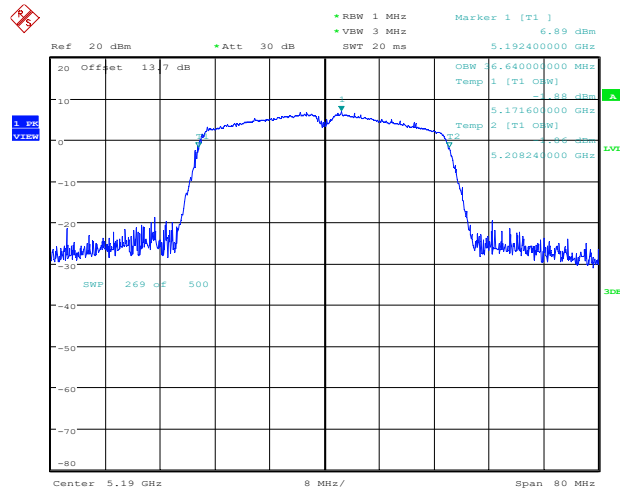


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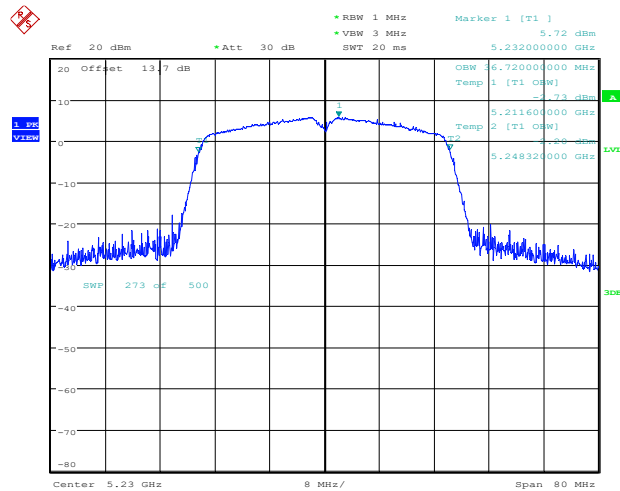
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11AC40SISO_Ant1_5230

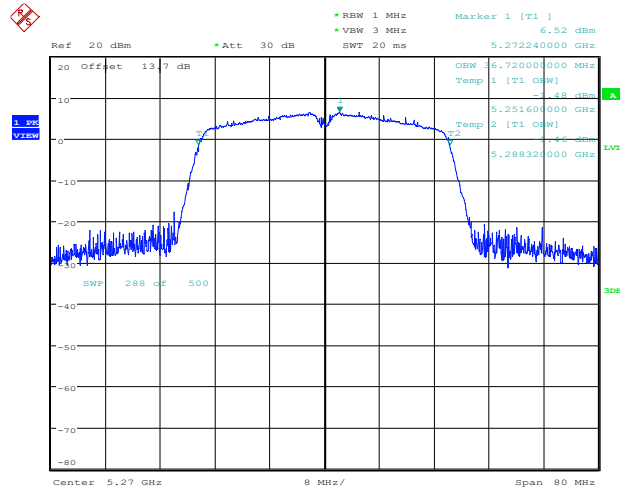


11AC40SISO_Ant1_5270

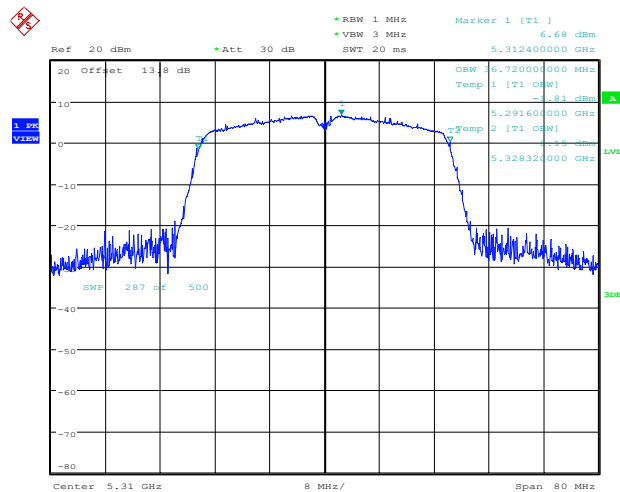
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11AC40SISO_Ant1_5310

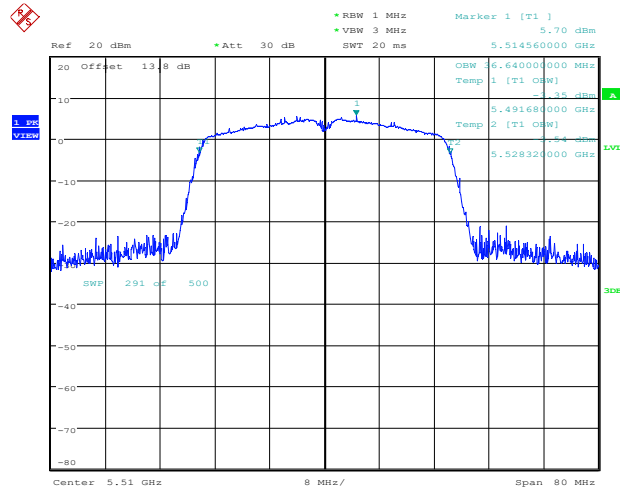


11AC40SISO_Ant1_5510

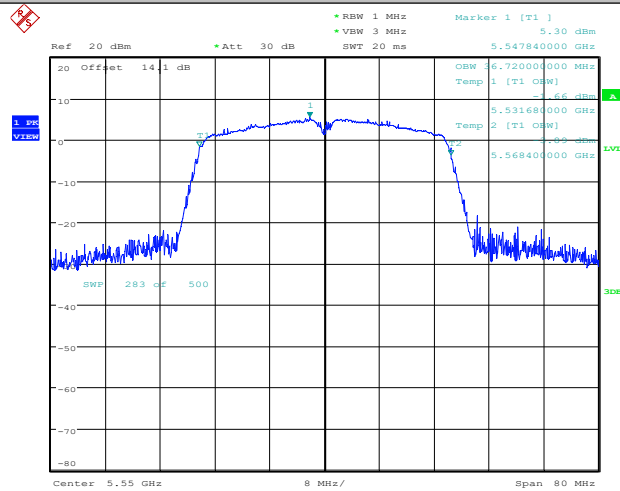
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11AC40SISO_Ant1_5550

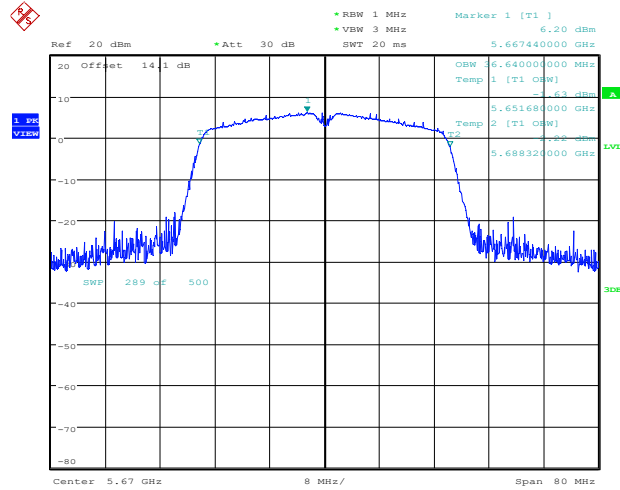


11AC40SISO_Ant1_5670

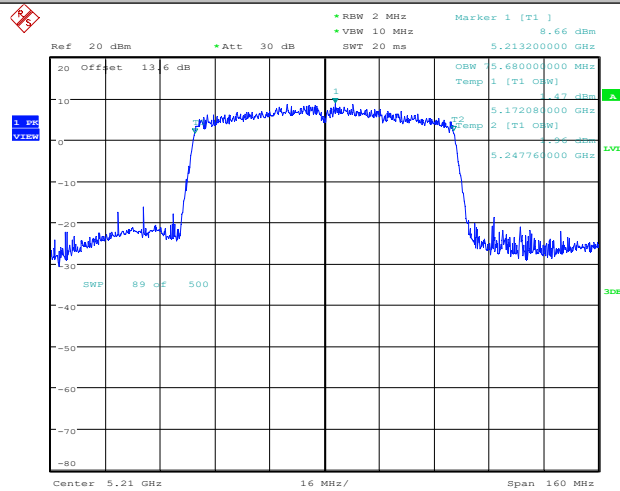
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11AC80SISO_Ant1_5210

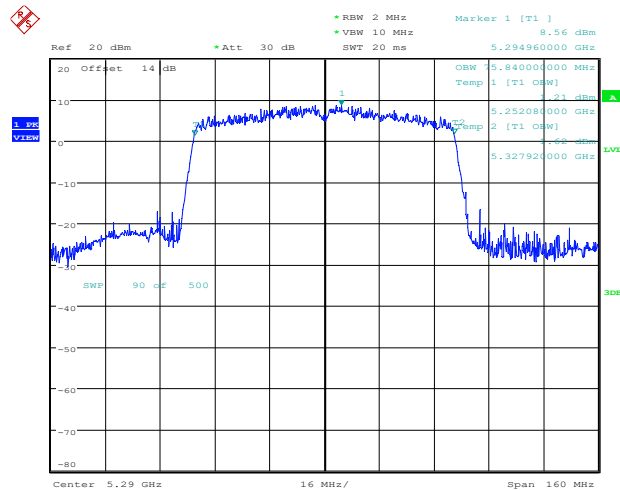


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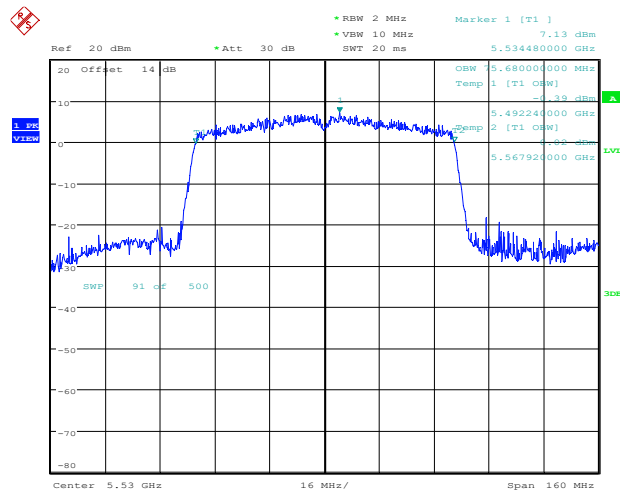
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11AC80SISO_Ant1_5530

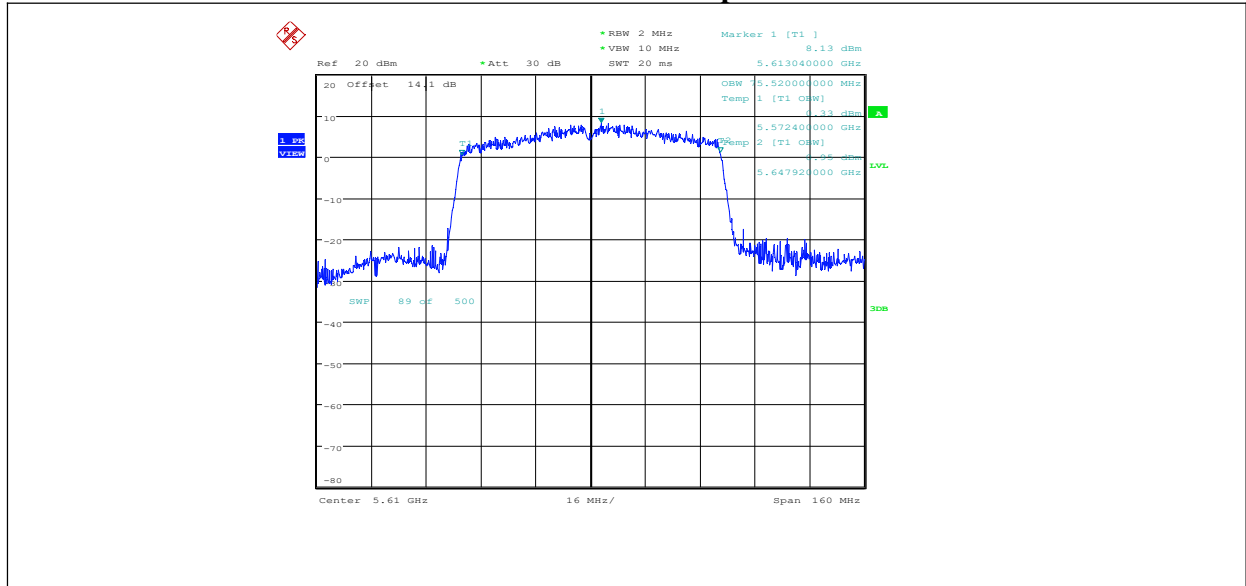


11AC80SISO_Ant1_5610

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6.6 Occupied 26dB Bandwidth

Specifications:	FCC 47 CFR Part 15.407(a)
DUT Serial Number:	S4
Test conditions:	Ambient Temperature:20°C Relative Humidity:40% Air pressure: 90kPa
Test Results:	Pass

Measurement Limit and Method

Standard	Limit(dBm/MHz)
FCC 47 CFR Part 15.407(a)	N/A

Measurement Uncertainty:

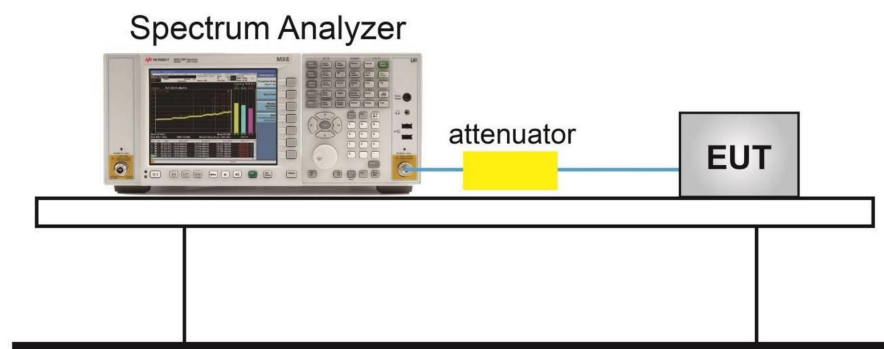
Measurement Uncertainty	20kHz
-------------------------	-------

The measurement method is made according to KDB 789033 C

1. Set RBW = approximately 1% of the emission bandwidth
2. Set the VBW > RBW
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Test Setup



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Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.20	5169.92	5190.12	---	---
		5200	20.04	5189.92	5209.96	---	---
		5240	20.04	5230.00	5250.04	---	---
		5260	20.08	5249.92	5270.00	---	---
		5280	20.04	5269.96	5290.00	---	---
		5320	20.20	5309.88	5330.08	---	---
		5500	20.40	5489.96	5510.36	---	---
		5580	20.24	5569.92	5590.16	---	---
		5700	20.08	5689.92	5710.00	---	---
11N20SISO	Ant1	5180	20.32	5169.84	5190.16	---	---
		5200	20.32	5189.80	5210.12	---	---
		5240	20.32	5229.84	5250.16	---	---
		5260	20.36	5249.76	5270.12	---	---
		5280	20.36	5269.84	5290.20	---	---
		5320	20.40	5309.76	5330.16	---	---
		5500	20.52	5489.80	5510.32	---	---
		5580	20.44	5569.84	5590.28	---	---
		5700	20.48	5689.76	5710.24	---	---
11N40SISO	Ant1	5190	40.96	5169.44	5210.40	---	---
		5230	41.20	5209.44	5250.64	---	---
		5270	41.44	5249.36	5290.80	---	---
		5310	40.96	5289.44	5330.40	---	---
		5510	41.12	5489.44	5530.56	---	---
		5550	41.36	5529.36	5570.72	---	---
		5670	41.04	5649.52	5690.56	---	---
11AC20SISO	Ant1	5180	20.44	5169.80	5190.24	---	---
		5200	20.48	5189.68	5210.16	---	---
		5240	20.56	5229.72	5250.28	---	---
		5260	20.68	5249.64	5270.32	---	---
		5280	20.40	5269.76	5290.16	---	---
		5320	20.40	5309.84	5330.24	---	---
		5500	20.44	5489.80	5510.24	---	---
		5580	20.52	5569.76	5590.28	---	---
		5700	20.44	5689.76	5710.20	---	---
11AC40SISO	Ant1	5190	41.20	5169.36	5210.56	---	---
		5230	41.12	5209.44	5250.56	---	---
		5270	41.44	5249.20	5290.64	---	---
		5310	43.36	5289.52	5332.88	---	---

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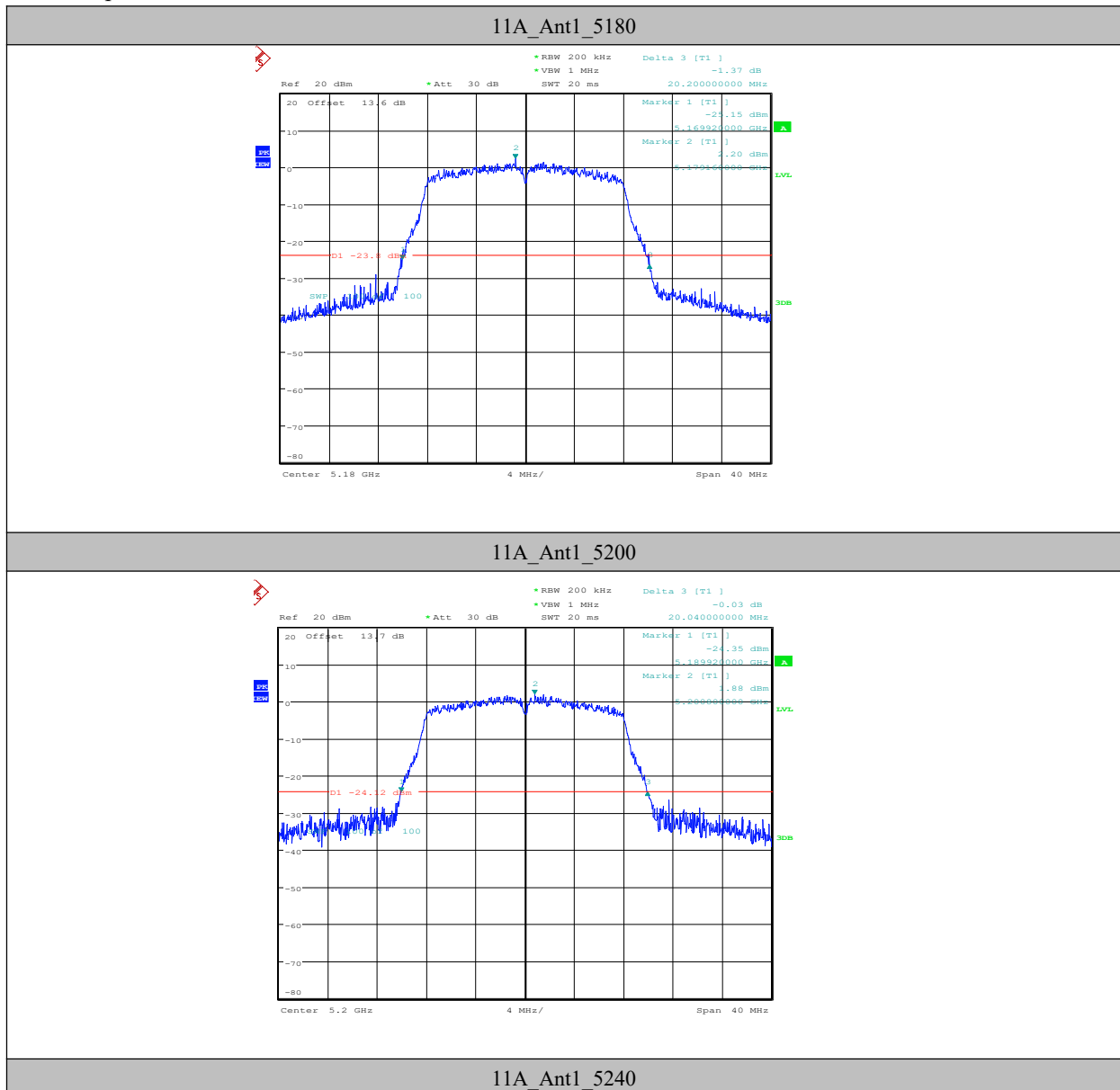
Report No.: 123W00020-WIFI 5G RF

		5510	45.36	5489.20	5534.56	---	---
		5550	41.04	5529.60	5570.64	---	---
		5670	40.88	5649.52	5690.40	---	---
11AC80SISO	Ant1	5210	81.92	5169.04	5250.96	---	---
		5290	81.44	5249.20	5330.64	---	---
		5530	82.56	5488.40	5570.96	---	---
		5610	81.28	5569.52	5650.80	---	---

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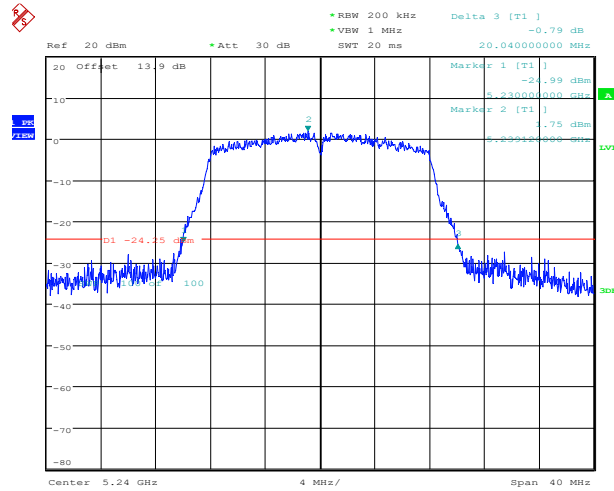
Test Graphs



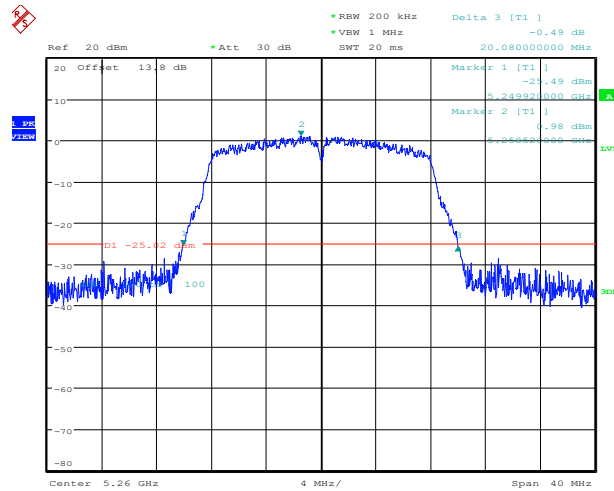
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11A_Ant1_5260

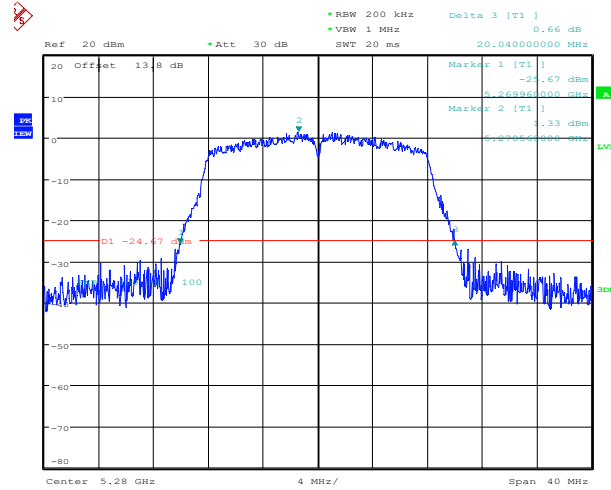


11A_Ant1_5280

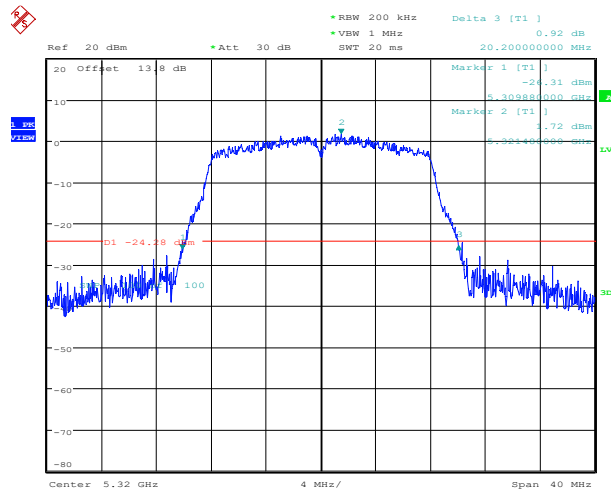
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11A_Ant1_5320

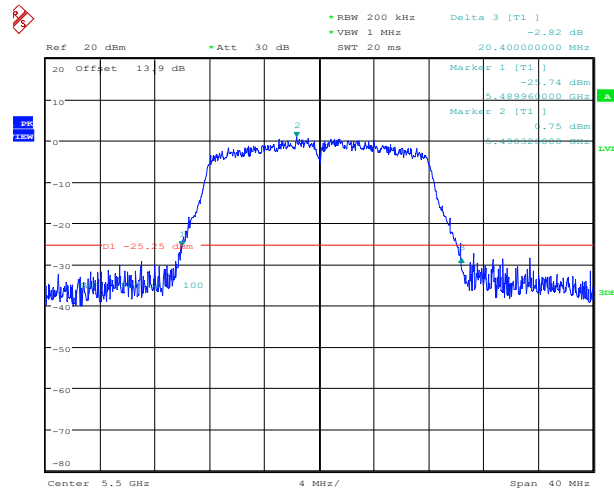


11A_Ant1_5500

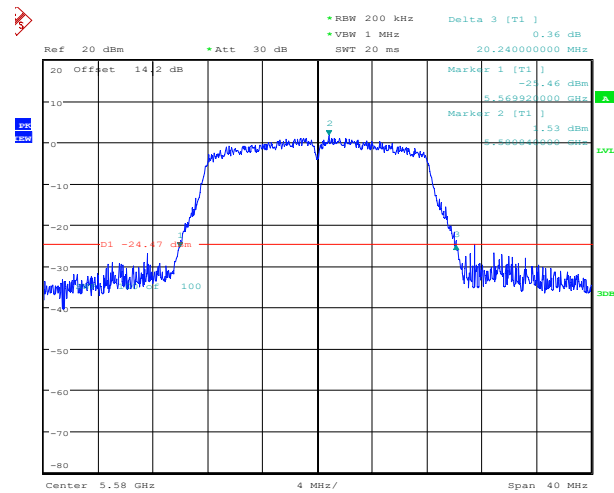
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11A_Ant1_5580

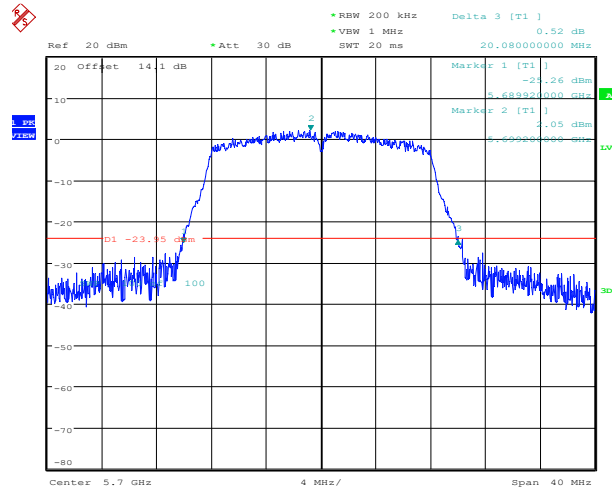


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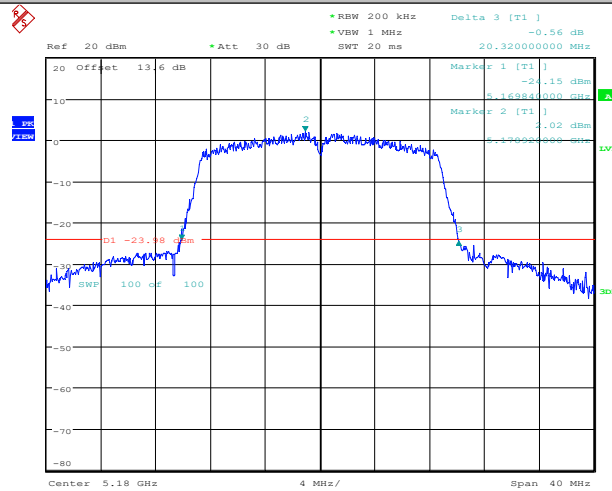
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11N20SISO_Ant1_5180

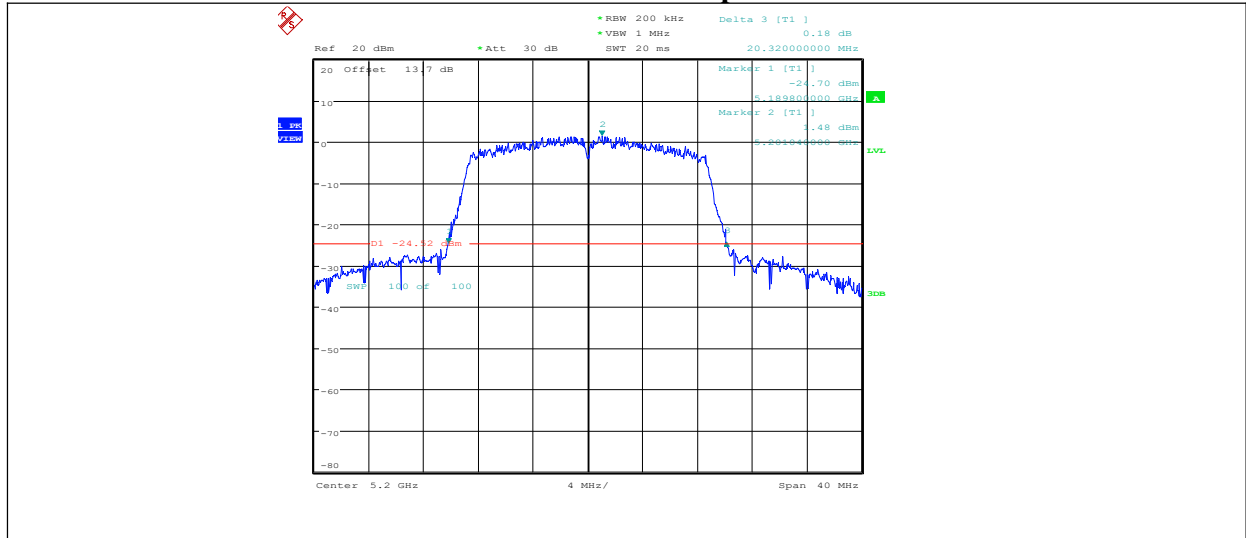


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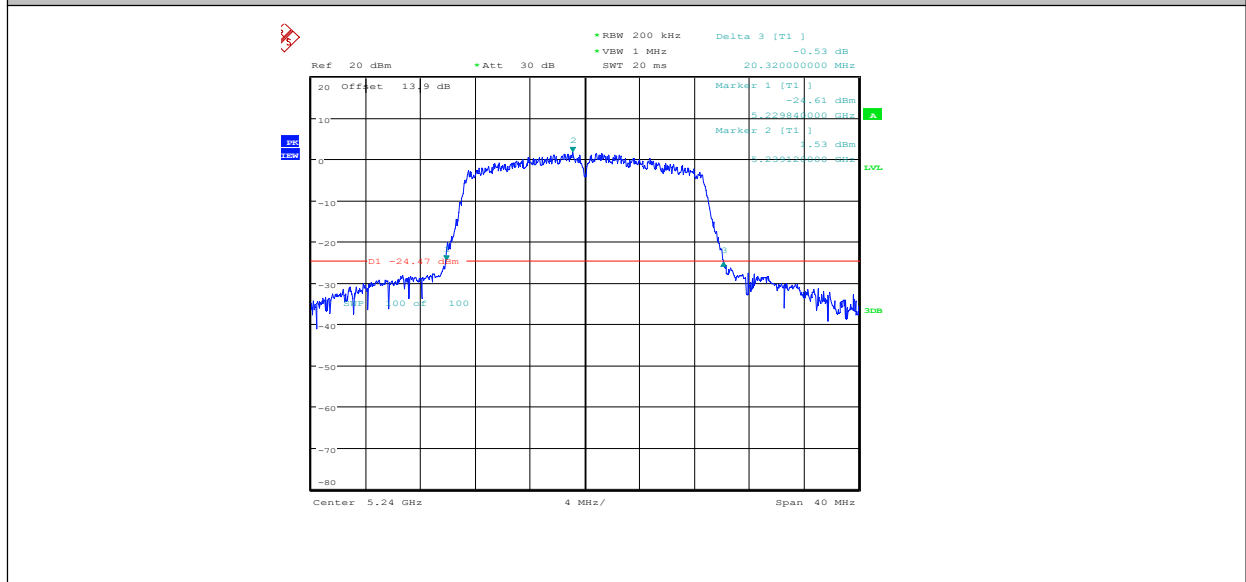
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11N20SISO_Ant1_5240

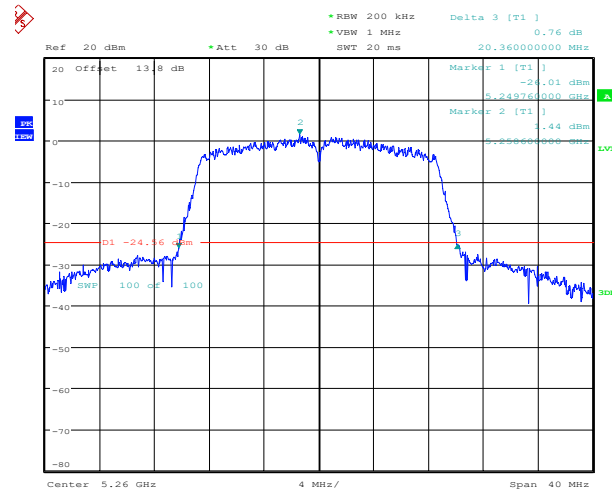


11N20SISO_Ant1_5260

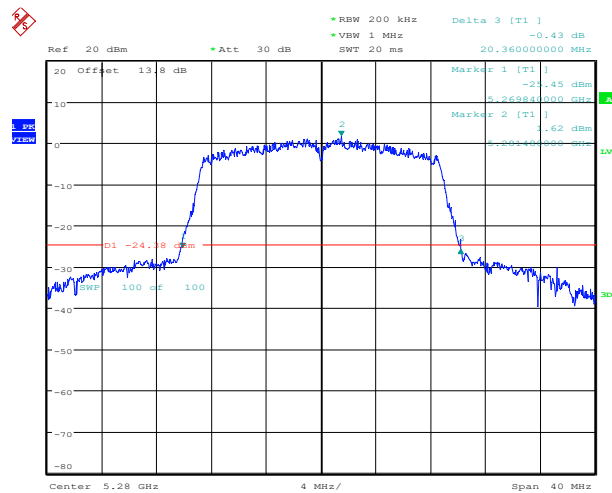
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11N20SISO_Ant1_5280

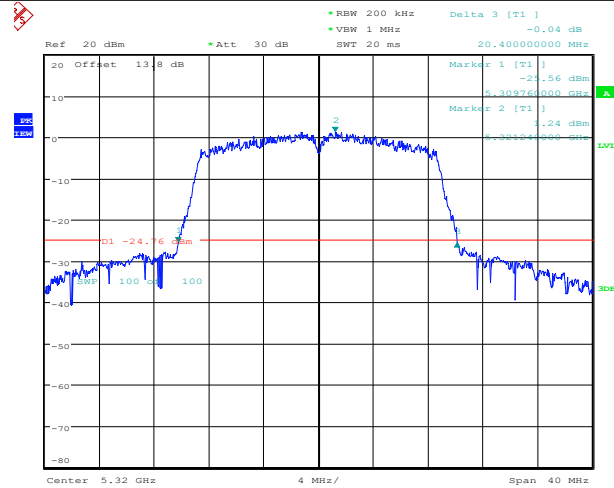


11N20SISO_Ant1_5320

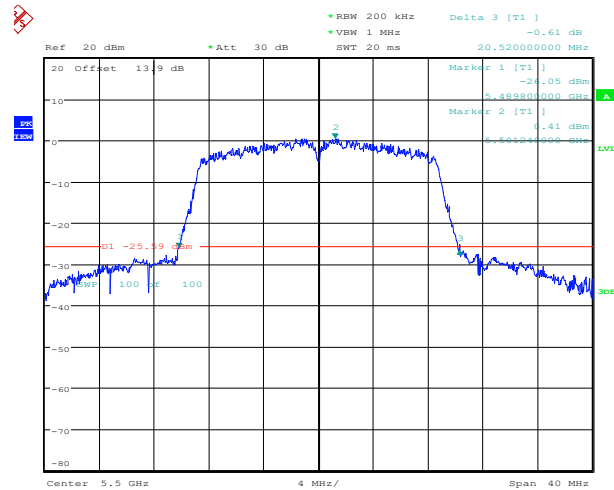
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11N20SISO_Ant1_5500

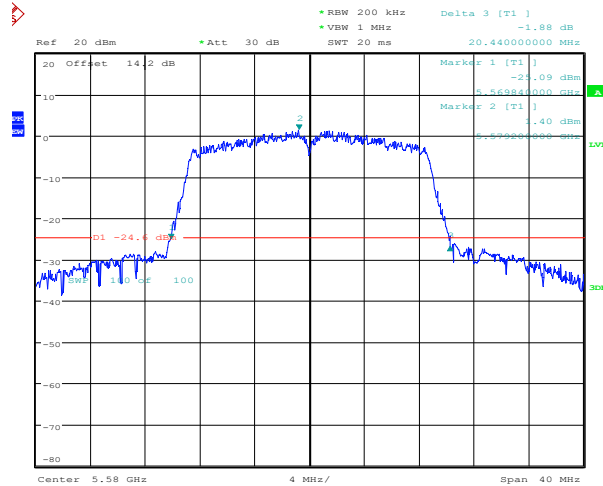


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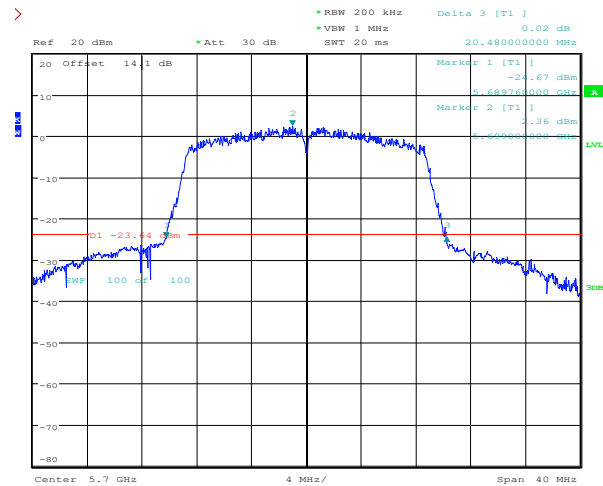
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11N20SISO_Ant1_5700

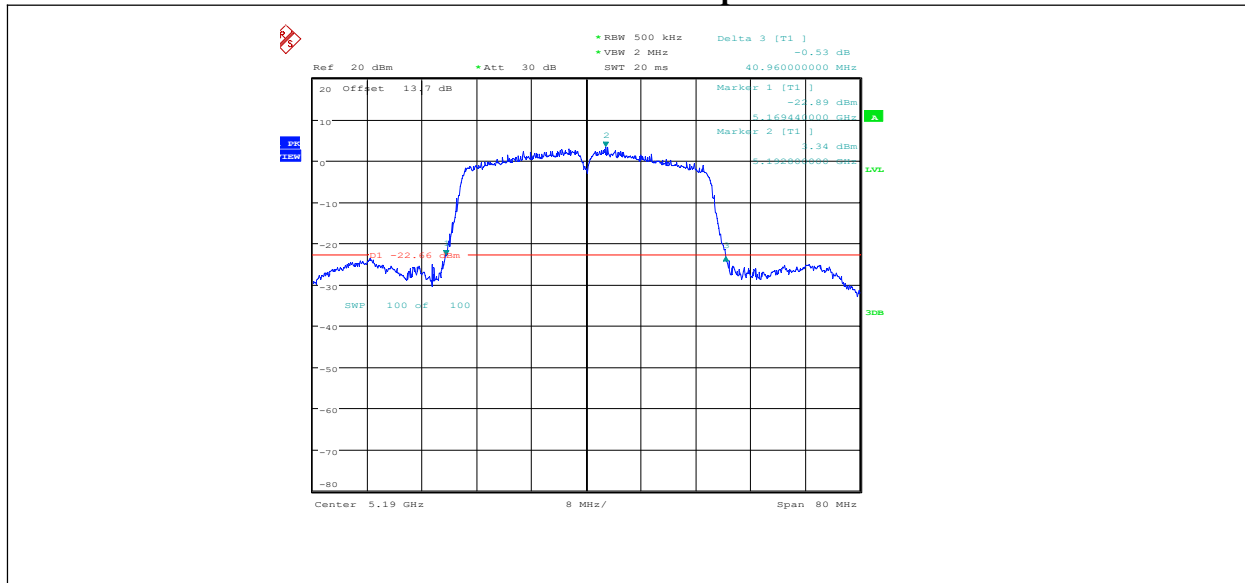


11N40SISO_Ant1_5190

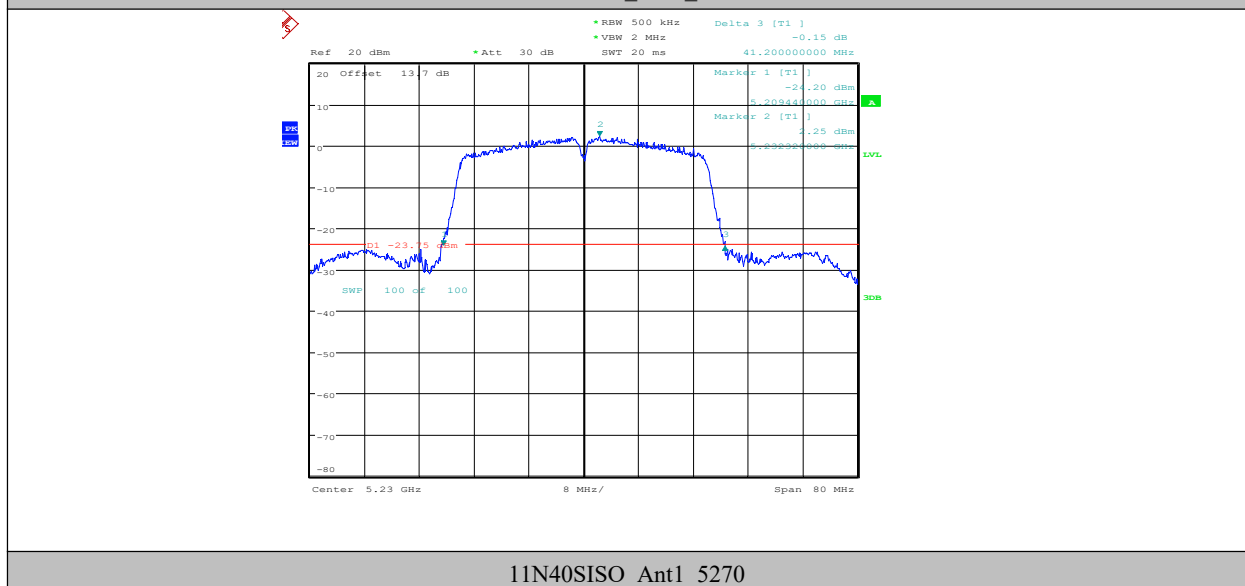
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11N40SISO_Ant1_5230

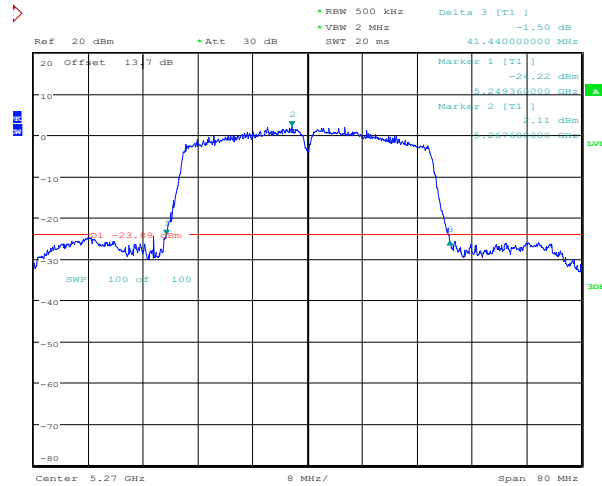


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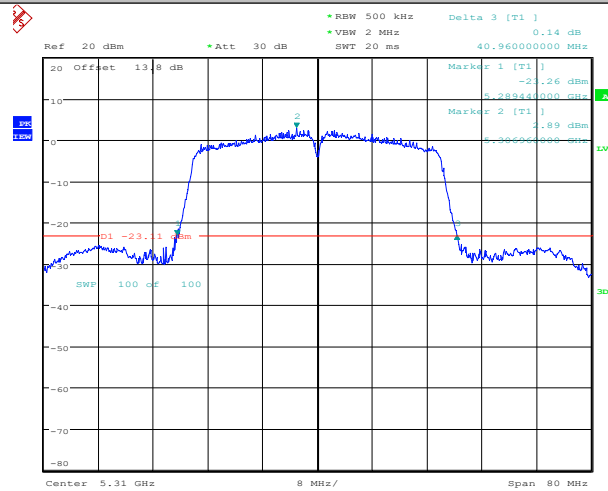
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11N40SISO_Ant1_5310

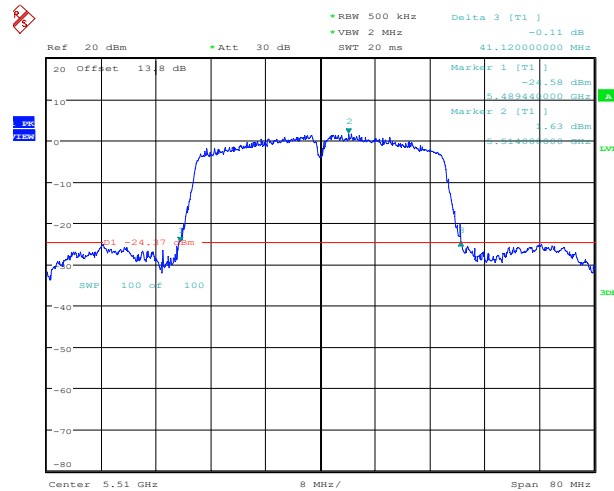


11N40SISO_Ant1_5510

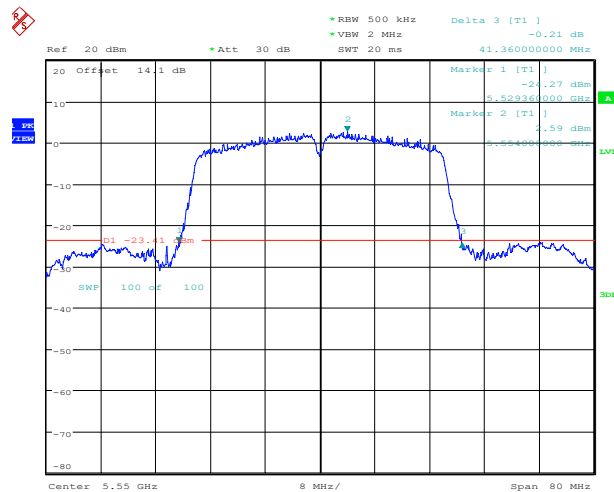
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11N40SISO_Ant1_5550

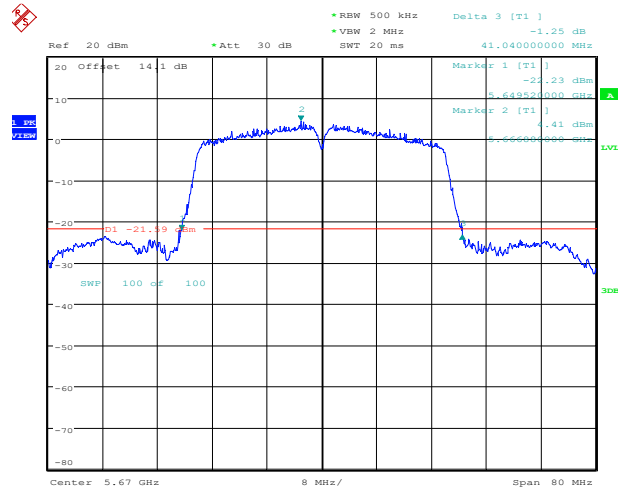


11N40SISO_Ant1_5670

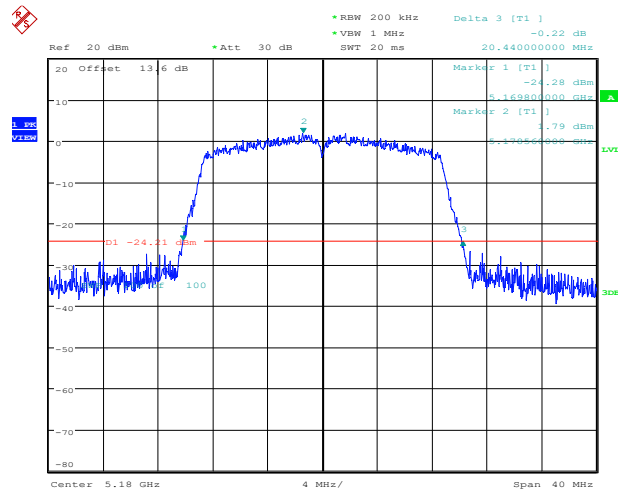
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11AC20SISO_Ant1_5180

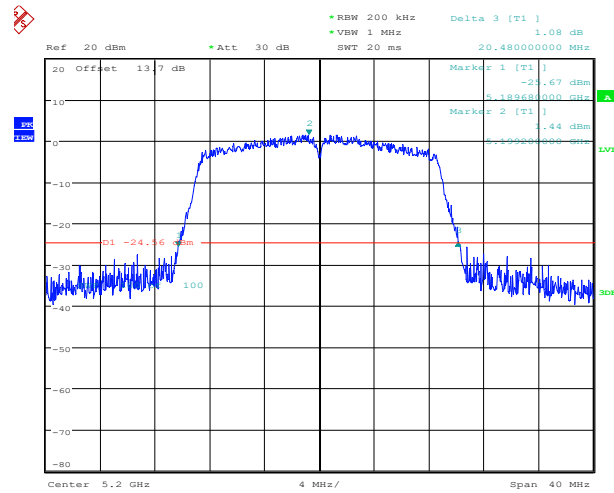


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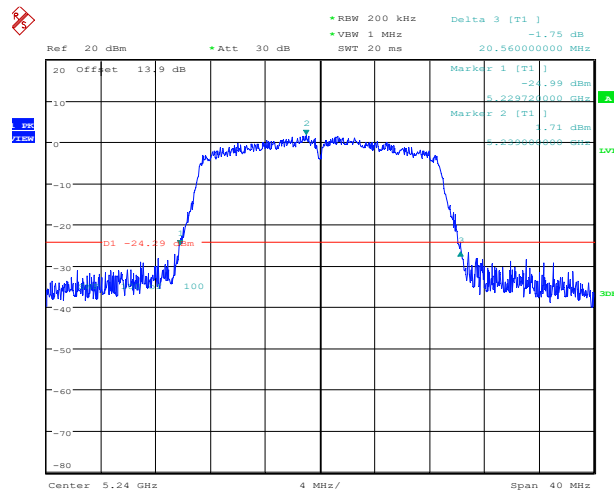
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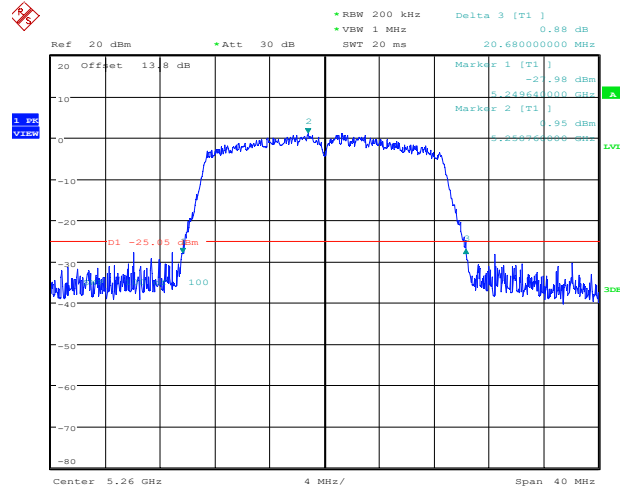


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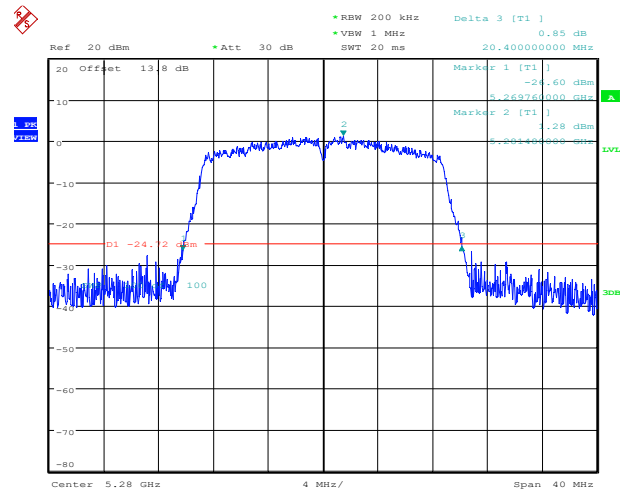
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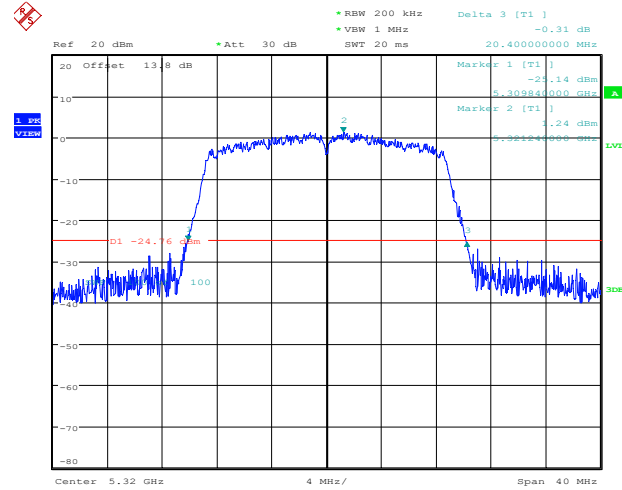


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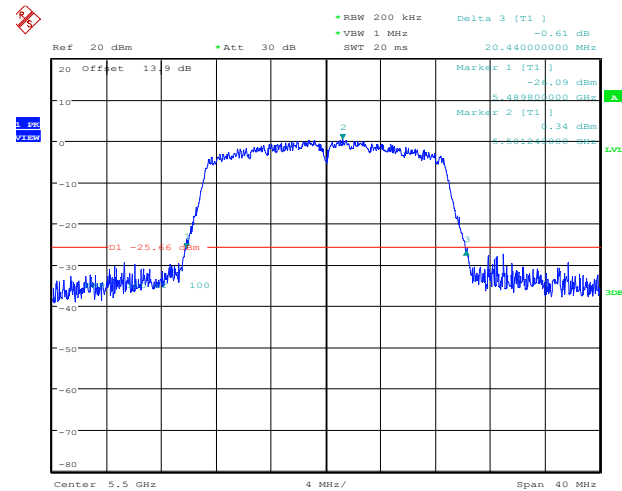
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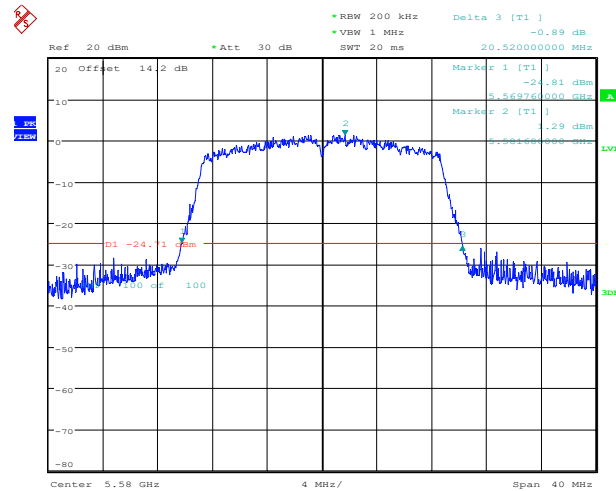
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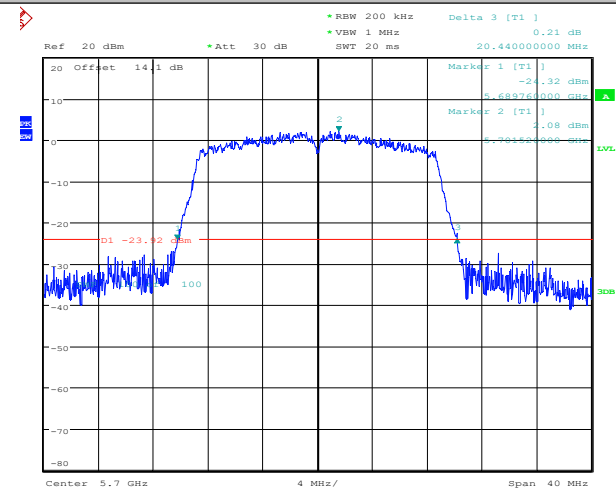
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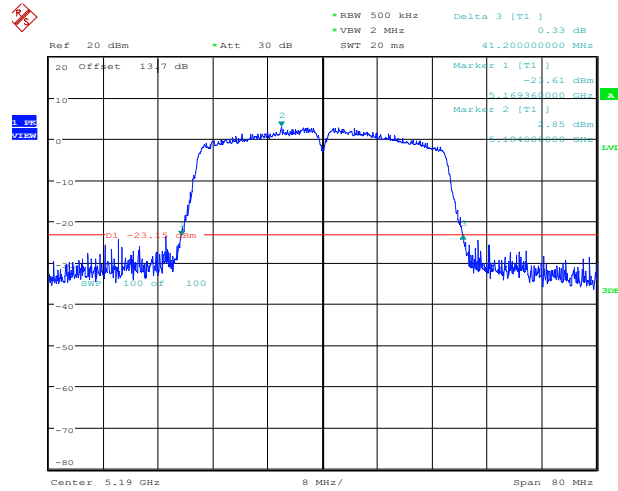
Address: No. 8, Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China, 401336
Tel: 0086-23-88069965 FAX: 0086-23-88608777



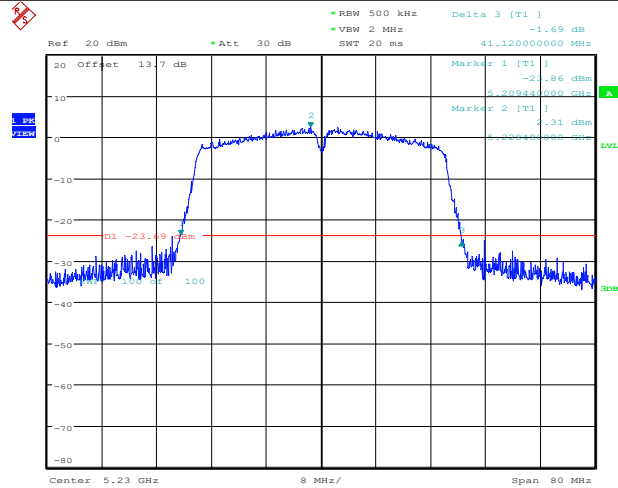
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