



FCC PART 15.407 TEST REPORT

For

SKSpruce Technologies Co., Ltd.

A1, Tianfu Software Park, 1129 Century City Road, Hi-tech Zone,
Chengdu, Sichuan, China

FCC ID: 2AHKT-WIA3300-20

Report Type: Original Report	Product Name: Indoor Access Point
Report Number: RSC170718001D	
Report Date: 2017-08-14	
Sula Huang	
Reviewed By:	EMC Director 
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Chengdu) No. 5040, Huilongwan Plaza, No. 1, Shawan Road, Jinniu District, Chengdu, Sichuan, China Tel: 028-65525123, Fax: 028-65525125 www.baclcorp.com

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The **SKSpruce Technologies Co., Ltd.**, model number: **WIA3300-20** (FCC ID: 2AHKT-WIA3300-20) or the "EUT" as referred to in this report was the **Indoor Access Point**.

Mechanical Description of EUT

The EUT was measured approximately: 200mm (L) x 200 mm (W) x 45 mm (H).

Rated input voltage: DC 12V from Adapter or DC 48V from POE.

POE Information

Manufacturer: SKSpruce Technologies Co., Ltd.

Model: PSE802G

Input: 100-240V/AC; 50/60Hz

Output: DC48-56V

**All measurement and test data in this report were gathered from final production sample, serial number: 170718001/01 (assigned by BACL). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2017-07-07, and EUT complied with test requirement.*

Objective

This type approval report is prepared on behalf of **SKSpruce Technologies Co., Ltd.** in accordance with Part 2-Subpart J, Part 15-Subparts A, C and E of the Federal Communications Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, section subpart C, 15.203, 15.205, 15.207, 15.209 and Subpart E, 15.407 rules.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submissions with FCC ID: 2AHKT-WIA3300-20.

FCC Part 15.247 DTS submissions with FCC ID: 2AHKT-WIA3300-20.

Measurement Uncertainty

Item			Uncertainty
AC power line conducted emission			2.71 dB
Radiated Emission(Field Strength)	30MHz-200MHz	H	4.57 dB
		V	4.81 dB
	200MHz-1GHz	H	5.69 dB
		V	6.07 dB
	1GHz-6GHz		5.49 dB
	6GHz-18GHz		5.57 dB
	18GHz-40GHz		5.48 dB
Conducted RF Power			±0.61dB
Power Spectrum Density			±0.61dB
Occupied Bandwidth			±5%
Conducted Emission			±1.5dB
Humidity			±5%
Temperature			±1℃

Test Methodology

All measurements contained in this report were conducted with:

1. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
2. KDB789033 D02 UNII Meas Guidance v01r04.

Test Facility

The test site used by BACL to collect test data is located No. 5040, Huilongwan Plaza, No. 1, Shawan Road, Jinniu District, Chengdu, Sichuan, China

BACL(Chengdu) is accredited by A2LA in accordance with the recognized international standard ISO/IEC 17025, A2LA cert No.: 4324.01. The Federal communications commission has on file and is listed under FCC Test Firm Registration No.: 910975.

BACL(Chengdu) has been fully described in reports on file and registered with the Innovation, Science and Economic Development Canada under Registration Numbers: 3062C-1.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

For 5150~5250 MHz band, channels are provided to test as follows:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a, ac20, 802.11n-HT20: Channel 36, 40 and 48 were tested; for 802.11n-HT40, ac40: Channel 38, 46 were tested; for ac80: Channel 42 was tested.

For 5250~5350 MHz band, channels are provided to test as follows:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320
58	5290	/	/

For 802.11a, ac20, 802.11n-HT20: Channel 52, 56 and 64 were tested; for 802.11n-HT40, ac40: Channel 54, 62 were tested; for ac80: Channel 58 was tested.

For 5470~5725 MHz band, channels are provided to test as follows:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
102	5510	126	5630
104	5520	128	5640
106	5530	132	5660
108	5540	134	5670
110	5550	136	5680
112	5560	138	5690
116	5580	140	5700
118	5590	142	5710
120	5600	144	5720
122	5610	/	/

For 802.11a, ac20, 802.11n-HT20: Channel 100, 120, 140 and 144 were tested; for 802.11n-HT40, ac40: Channel 102, 118, 134, and 142 were tested; for ac80: Channel 106, 122 and 138 were tested.

For 5725~5850 MHz band, channels are provided to test as follows:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a, 802.11ac20, 802.11n-HT20: Channel 149, 157 and 165 were tested; for 802.11n-HT40, 802.11ac40: Channel 151, 159 were tested; for ac80: Channel 155 was tested.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations.

Note:

802.11a/ac/n supports SISO and MIMO mode, according to pretest, MIMO mode was worst. So, 802.11a/ac/n MIMO mode test data was recorded in the report.

EUT Exercise Software

The software “QRCTV3.0-00210” was used for testing, which was provided by manufacturer.

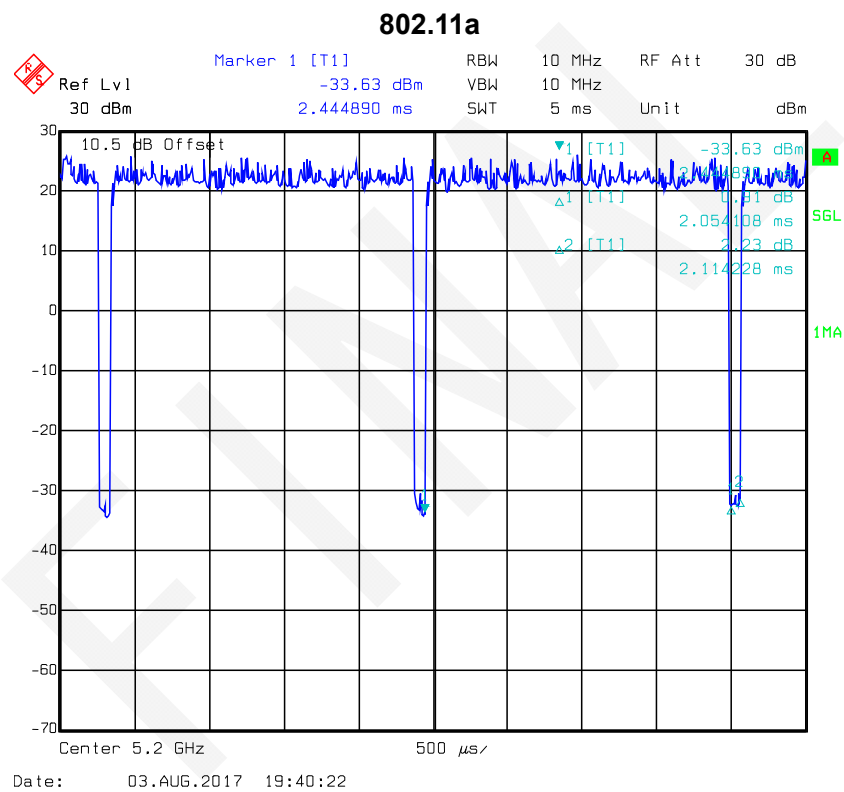
Software and version				QRCTV3.0-00210			
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)		Power Level	
				Antenna 0	Antenna 1	Antenna 0	Antenna 1
5150-5250MHz	802.11a	Low	5180	6	6	17	17
		Middle	5200	6	6	17	17
		High	5240	6	6	17	17
	802.11n-HT20	Low	5180	MCS0	MCS0	17	17
		Middle	5200	MCS0	MCS0	17	17
		High	5240	MCS0	MCS0	17	17
	802.11n-HT40	Low	5190	MCS0	MCS0	16	16
		High	5230	MCS0	MCS0	16	16
	802.11ac20	Low	5180	MCS0	MCS0	17	17
		Middle	5200	MCS0	MCS0	17	17
		High	5240	MCS0	MCS0	17	17
	802.11ac40	Low	5190	MCS0	MCS0	16	16
		High	5230	MCS0	MCS0	16	16
	802.11ac80	Middle	5210	MCS0	MCS0	16	16
5250-5350MHz	802.11a	Low	5260	6	6	17	17
		Middle	5280	6	6	17	17
		High	5320	6	6	17	17
	802.11n-HT20	Low	5260	MCS0	MCS0	17	17
		Middle	5280	MCS0	MCS0	17	17
		High	5320	MCS0	MCS0	17	17
	802.11n-HT40	Low	5270	MCS0	MCS0	17	17
		High	5310	MCS0	MCS0	17	17
	802.11ac20	Low	5260	MCS0	MCS0	17	17
		Middle	5280	MCS0	MCS0	17	17
		High	5320	MCS0	MCS0	17	17
	802.11ac40	Low	5270	MCS0	MCS0	17	17
		High	5310	MCS0	MCS0	17	17
	802.11ac80	Middle	5290	MCS0	MCS0	17	17

Software and version				QRCTV3.0-00210			
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)		Power Level	
				Antenna 0	Antenna 1	Antenna 0	Antenna 1
5470-5725MHz	802.11a	Low	5500	6	6	18	18
		Middle	5600	6	6	18	18
		High	5700	6	6	18	18
		Crossed	5720	6	6	18	18
	802.11n-HT20	Low	5500	MCS0	MCS0	18	18
		Middle	5600	MCS0	MCS0	18	18
		High	5700	MCS0	MCS0	18	18
		Crossed	5720	MCS0	MCS0	18	18
	802.11n-HT40	Low	5510	MCS0	MCS0	17	17
		Middle	5590	MCS0	MCS0	17	17
		High	5670	MCS0	MCS0	17	17
		Crossed	5710	MCS0	MCS0	17	17
	802.11ac20	Low	5500	MCS0	MCS0	18	18
		Middle	5600	MCS0	MCS0	18	18
		High	5700	MCS0	MCS0	18	18
		Crossed	5720	MCS0	MCS0	18	18
	802.11ac40	Low	5510	MCS0	MCS0	17	17
		Middle	5590	MCS0	MCS0	17	17
		High	5670	MCS0	MCS0	17	17
		Crossed	5710	MCS0	MCS0	17	17
	802.11ac80	Low	5530	MCS0	MCS0	17	17
		High	5610	MCS0	MCS0	17	17
		Crossed	5690	MCS0	MCS0	17	17
5725-5850MHz	802.11a	Low	5745	6	6	20	20
		Middle	5785	6	6	20	20
		High	5825	6	6	20	20
	802.11n-HT20	Low	5745	MCS0	MCS0	20	20
		Middle	5785	MCS0	MCS0	20	20
		High	5825	MCS0	MCS0	20	20
	802.11n-HT40	Low	5755	MCS0	MCS0	19	19
		High	5795	MCS0	MCS0	19	19
	802.11ac20	Low	5745	MCS0	MCS0	20	20
		Middle	5785	MCS0	MCS0	20	20
		High	5825	MCS0	MCS0	20	20
	802.11ac40	Low	5755	MCS0	MCS0	19	19
		High	5795	MCS0	MCS0	19	19
	802.11ac80	Middle	5775	MCS0	MCS0	19	19

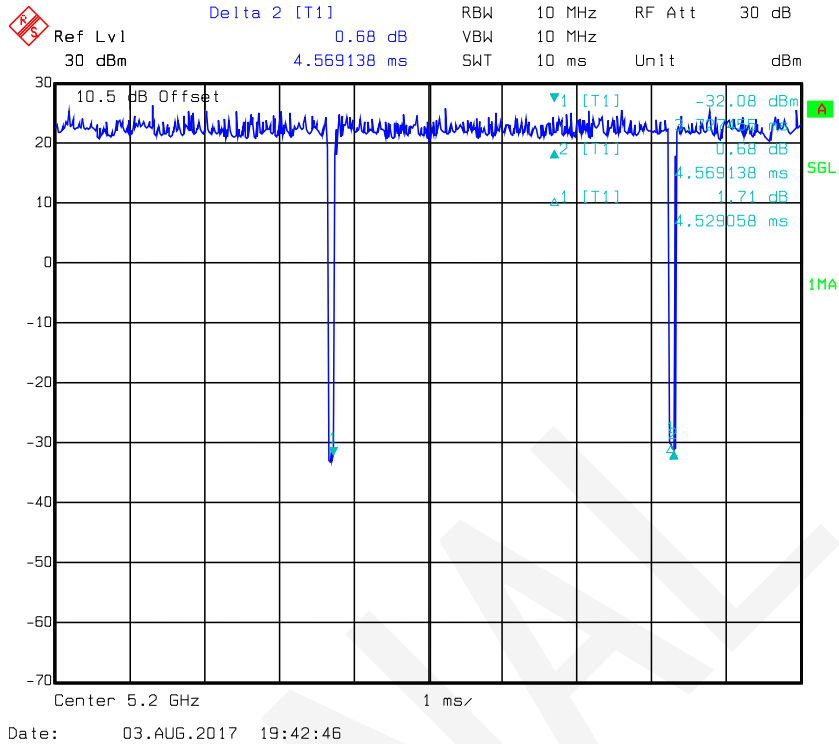
Duty cycle information is as below:

For 5150~5250 MHz (worst case)

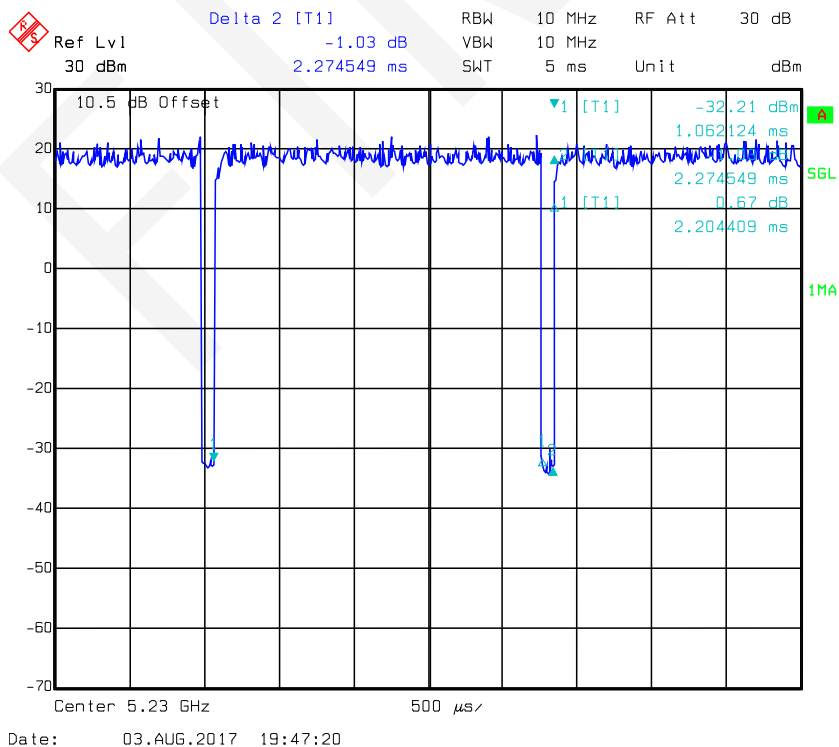
Mode	Ton (ms)	Ton+Toff(ms)	Duty Cycle(%)
802.11a	2.05	2.11	97.16
802.11n-HT20	4.53	4.57	99.12
802.11n-HT40	2.20	2.27	96.92
802.11ac20	4.53	5.13	88.30
802.11ac40	2.22	2.85	77.89
802.11ac80	4.05	4.65	87.10



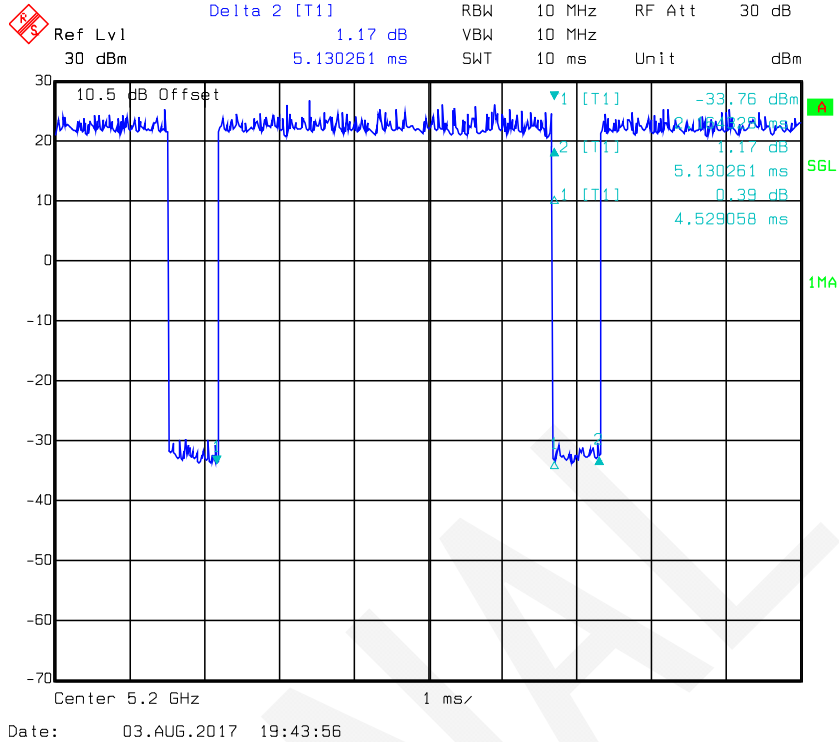
802.11n- HT20



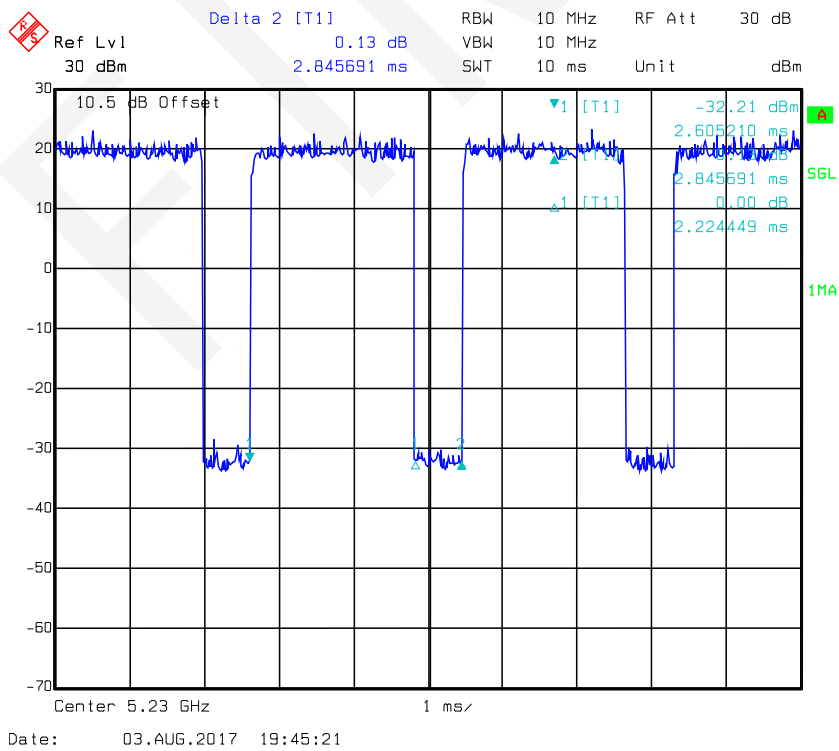
802.11n- HT40

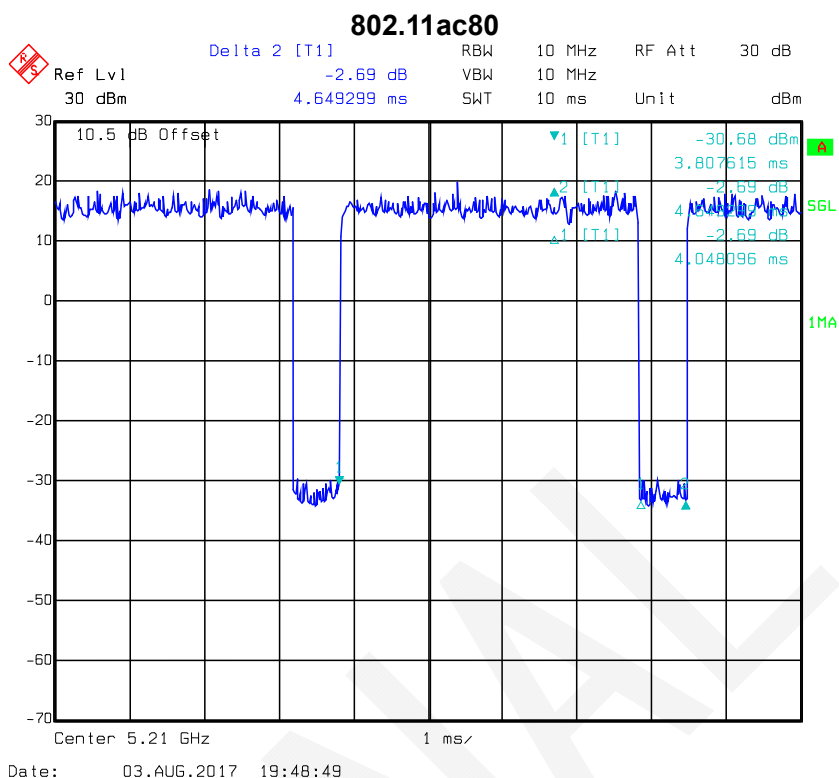


802.11ac20



802.11ac40





Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Laptop	E6410	37417629385
GPE	Adapter	GPE048A-120350-D	GMA-W3322-EA-002
Kingston	U Disk	101G2	N/A

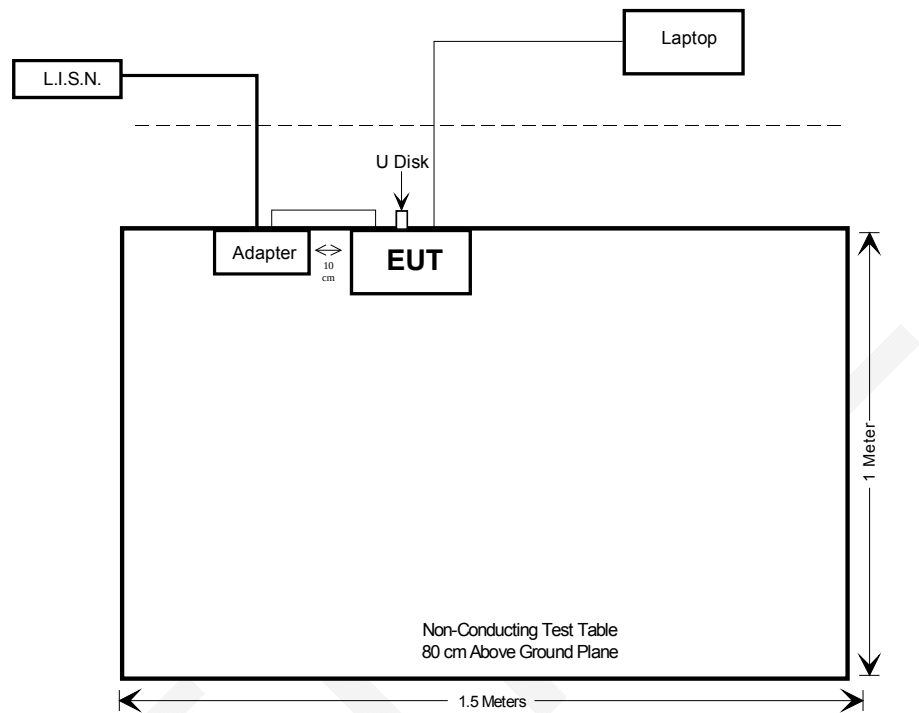
External I/O Cable

Cable Description	Length (m)	From	To
Unshielded DC Cable	1.2	EUT	Adapter
Unshielded RJ45 Cable	1.2	EUT	POE
Unshielded RJ45 Cable	5.0	EUT	Laptop

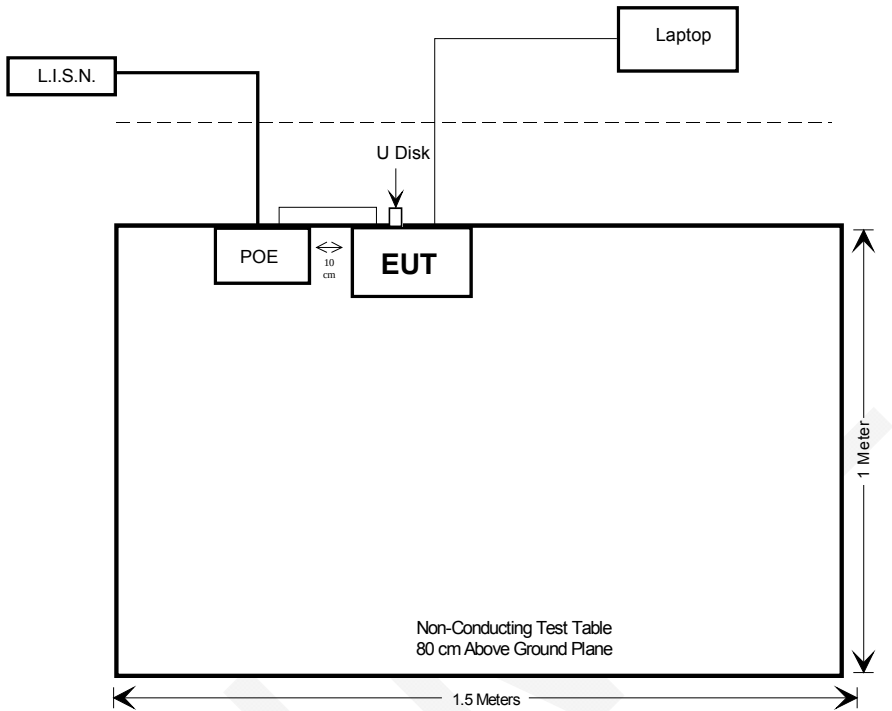
Block Diagram of Test Setup

AC Power Lines Conducted Emissions Test

Adapter Mode



POE Mode



Test Equipments List

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCS 30	836858/0016	2016-12-02	2017-12-01
Rohde & Schwarz	L.I.S.N.	ENV216	100018	2017-05-20	2018-05-19
Rohde & Schwarz	PULSE LIMITER	ESH3Z2	DE14781	2016-11-10	2017-11-09
N/A	Conducted Cable	NO.5	N/A	N/A	N/A
Rohde & Schwarz	EMC32	N/A	V 8.52.0	N/A	N/A
Radiated Emissions Test					
Agilent	Pre-Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2017-05-20	2018-05-19
Sunol Sciences	Broadband Antenna	JB3	A121808	2017-05-18	2020-05-17
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2017-05-18	2018-05-17
Agilent	Spectrum Analyzer	8564E	3943A01781	2016-10-06	2017-10-05
ETS	Horn Antenna	3115	003-6076	2017-05-19	2020-05-18
A.H.Systems,inc	Horn Antenna	SAS-574	505	2016-12-02	2017-12-01
Mini-circuits	Pre-Amplifier	ZVA-183-S+	771001215	2017-05-20	2018-05-19
Quinstar	Pre-Amplifier	QLW-18405536-JO	15964004001	2017-05-20	2018-05-19
INMET	Attenuator	N-6dB	/	2016-11-10	2017-11-09
EMCT	Semi-Anechoic Chamber	966	N/A	2015-04-24	2018-04-23
N/A	RF Cable (below 1GHz)	NO.1	N/A	2016-11-10	2017-11-09
N/A	RF Cable (below 1GHz)	NO.4	N/A	2016-11-10	2017-11-09
N/A	RF Cable (above 1GHz)	NO.2	N/A	2016-11-10	2017-11-09
Rohde & Schwarz	EMC32	N/A	V 8.52.0	N/A	N/A
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSL18	100180	2016-12-02	2017-12-01
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2017-05-18	2018-05-17
WEINSCHL ENGINEERING	Attenuator	1A10dB	AA4135	2016-11-10	2017-11-09
Agilent	USB Wideband Power Sensor	U2021XA	MY53320008	2016-12-02	2017-12-01
N/A	RF Cable	NO.3	N/A	2016-11-10	2017-11-09
Shenzhen BACL	High Temperature Test Chamber	BTH-150	30024	2016-12-02	2017-12-01
FLUKE	Multimeter	114	28810293WS	2017-05-18	2018-05-17
E-Microwave	DC Block	EMDCB-00036	OE01304225	Each Time	/
N/A	RF Cable	N/A	N/A	Each Time	/

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.407(f) & §1.1310 & §2.1091	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.407(b)(6) & §15.207(a)	Conducted Emissions	Compliance
§15.209, §15.205 & §15.407(b) (1), (2), (3), (4)(i), (5), (6), (7)	Undesirable Emission & Restricted Bands	Compliance
§15.407(b) (1),(2),(3),(4)(i)	Band Edge	Compliance
§15.407(a)(5) & (e)	26dB & 6dB Bandwidth	Compliance
§15.407(a)(1),(2),(3),(4)	Conducted Transmitter Output Power	Compliance
§15.407 (a)(1),(2)(3),(5)	Power Spectral Density	Compliance

FCC §15.407(f) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.407(f) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Per 447498 D01 General RF Exposure Guidance v05r02, simultaneous transmission MPE test exclusion applies when the sum of the MPE for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0.

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = PG/4\pi R^2$$

Where:

S = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

The rated tune-up output power and antenna gain in the below table:

Calculated Data:

MPE evaluation for single transmission:

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
WLAN	2412-2462	3.0	2.00	28.0	630.96	20	0.251	1.0
	5150-5250	3.0	2.00	20.0	100.00	20	0.040	1.0
	5250-5350	3.0	2.00	19.0	79.43	20	0.032	1.0
	5470-5725	3.0	2.00	20.0	100.00	20	0.040	1.0
	5725-5850	3.0	2.00	21.0	125.89	20	0.050	1.0

Note: The Wi-Fi(2.4G) and Wi-Fi(5G) can transmit simultaneously.

MPE evaluation for simultaneous transmission:

2.4 G(Wi-Fi) and 5G(Wi-Fi) can transmit at the same time, MPE evaluation is as below formula:

$PD1/Limit1 + PD2/Limit2 + \dots < 1$, PD (Power Density)

MPE evaluation:

2.4 G(Wi-Fi) and 5G(Wi-Fi):

Max MPE of 2.4G(Wi-Fi) + Max MPE of 5G(Wi-Fi) = $0.251/1 + 0.050/1 = 0.301 < 1.0$

Result: MPE evaluation of single and simultaneous transmission meet the requirement of standard.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
 - b. Antenna must use a unique type of connector to attach to the EUT.
- Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

This device used two internal PCB antennas (2.4G) and two PCB antennas (5G) which connected to the main board with IPEX socket, the maximum gain for 2.4G and 5G band is 3dBi, which fulfill the requirement of this section, please refer to the EUT photos.

Antenna Information

Band	Manufacturer	Antenna model	Antenna Peak Gain	Antenna type	Connector
Wi-Fi 2.4GHz	Walsin Technology	RFPCA451010IMAB301	3dBi	Omni-directional	IPEX
	Walsin Technology	RFPCA451021IMAB301	3dBi	Omni-directional	IPEX
Wi-Fi 5GHz	Walsin Technology	RFPCA190505IM5B302	3dBi	Omni-directional	IPEX
	Walsin Technology	RFPCA190507IM5B301	3dBi	Omni-directional	IPEX

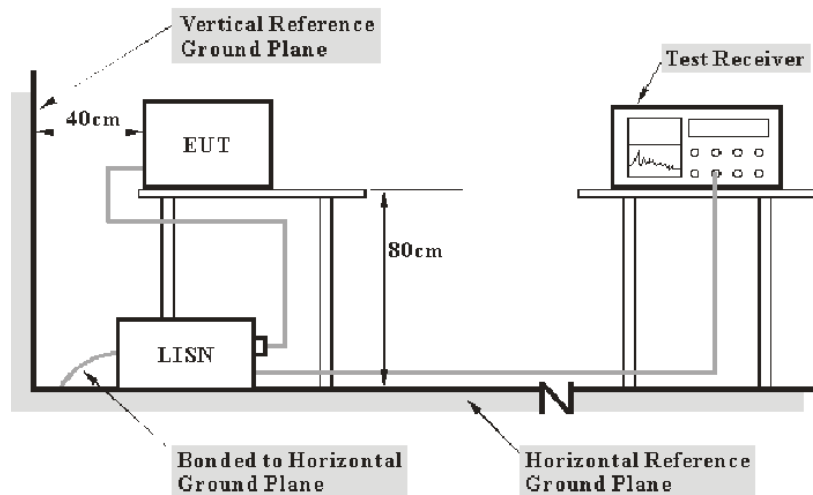
Result: Compliance.

FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207 (a), §15.407(b) (6)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The POE was connected to AC 120V/60Hz.

The Adapter was connected to AC 120V/60Hz.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

$$C_f = A_C + VDF$$

Herein,

V_C (cord. Reading): corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN

C_f : Correction Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

Environmental Conditions

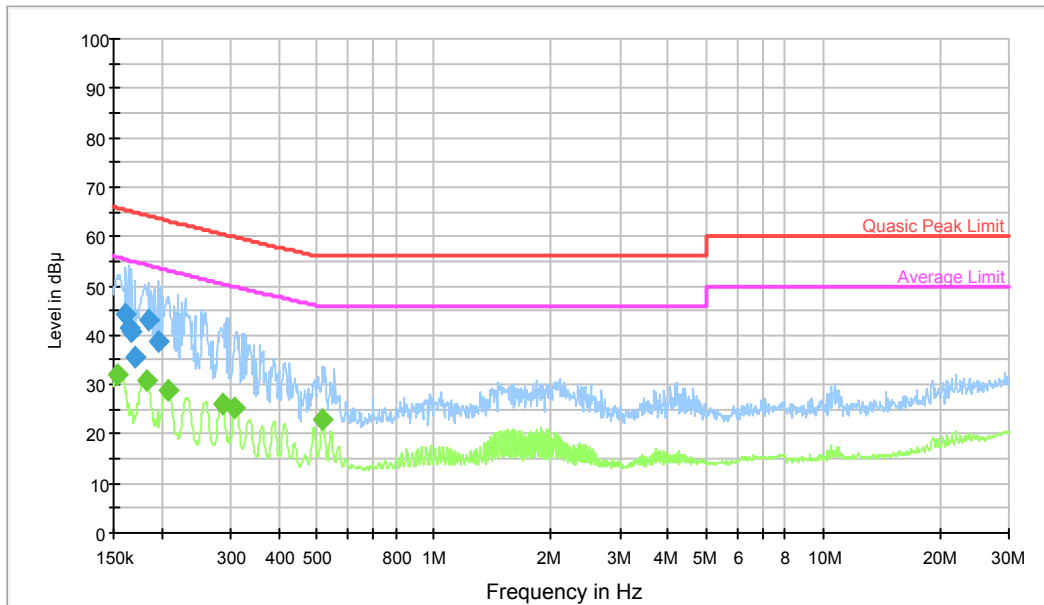
Temperature:	29 °C
Relative Humidity:	56 %
ATM Pressure:	94.9 kPa

The testing was performed by Tom Tang on 2017-07-25.

Test Mode: Transmitting

Adapter Mode

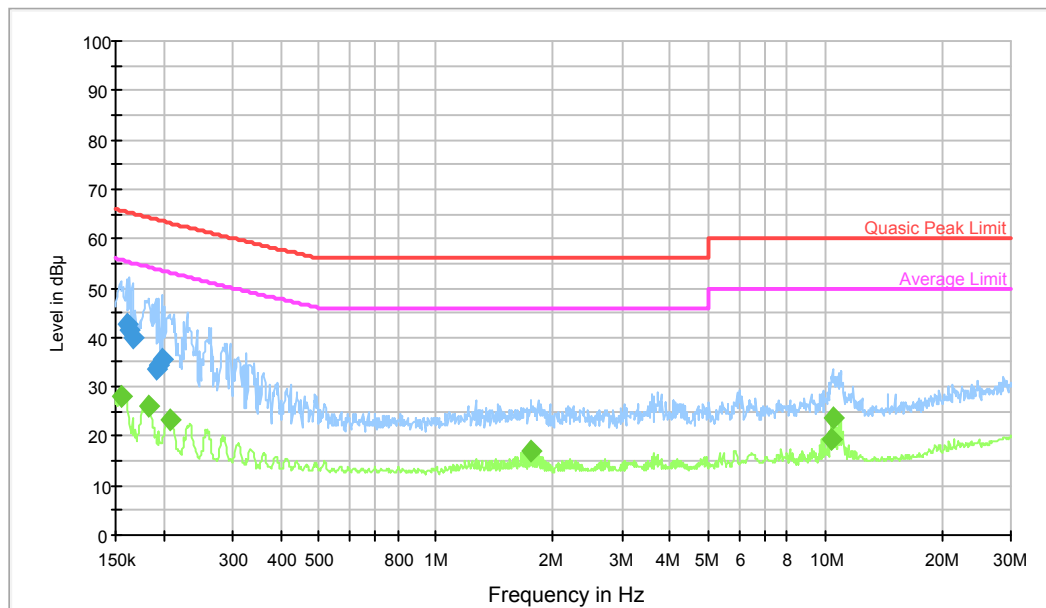
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.161175	44.3	9.000	L1	19.7	21.1	65.4
0.163770	41.4	9.000	L1	19.7	23.8	65.2
0.166406	40.5	9.000	L1	19.7	24.6	65.1
0.170440	35.5	9.000	L1	19.7	29.4	64.9
0.184605	43.1	9.000	L1	19.7	21.1	64.2
0.195217	38.8	9.000	L1	19.7	24.9	63.7

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154251	31.9	9.000	L1	19.7	23.8	55.7
0.181681	30.9	9.000	L1	19.7	23.4	54.3
0.206437	29.0	9.000	L1	19.7	24.2	53.2
0.285246	26.1	9.000	L1	19.7	24.3	50.4
0.307723	25.1	9.000	L1	19.7	24.7	49.8
0.517062	23.0	9.000	L1	19.8	23.0	46.0

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.159894	42.9	9.000	N	19.6	22.5	65.4
0.163117	41.5	9.000	N	19.6	23.7	65.2
0.165743	40.1	9.000	N	19.6	25.0	65.1
0.190596	33.5	9.000	N	19.6	30.4	63.9
0.193664	34.6	9.000	N	19.5	29.1	63.7
0.196781	35.7	9.000	N	19.5	27.9	63.6

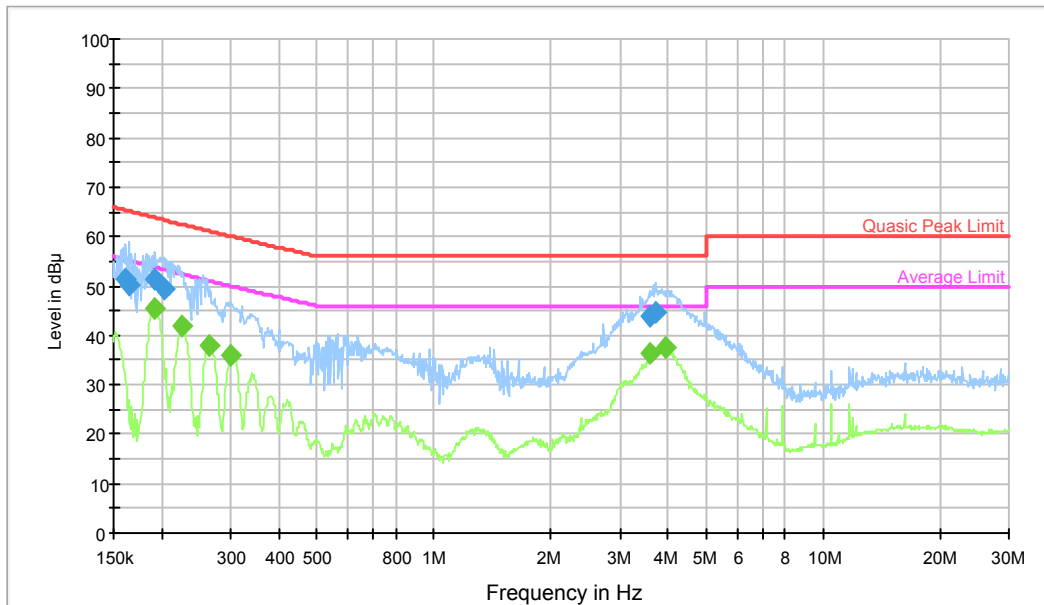
Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.156109	28.0	9.000	N	19.6	27.6	55.6
0.182408	25.9	9.000	N	19.6	28.3	54.2
0.208092	23.1	9.000	N	19.5	30.0	53.1
1.754117	17.1	9.000	N	19.6	28.9	46.0
10.364798	19.2	9.000	N	19.8	30.8	50.0
10.447882	23.8	9.000	N	19.8	26.2	50.0

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
The corrected factor has been input into the transducer of the test software.
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

POE Mode

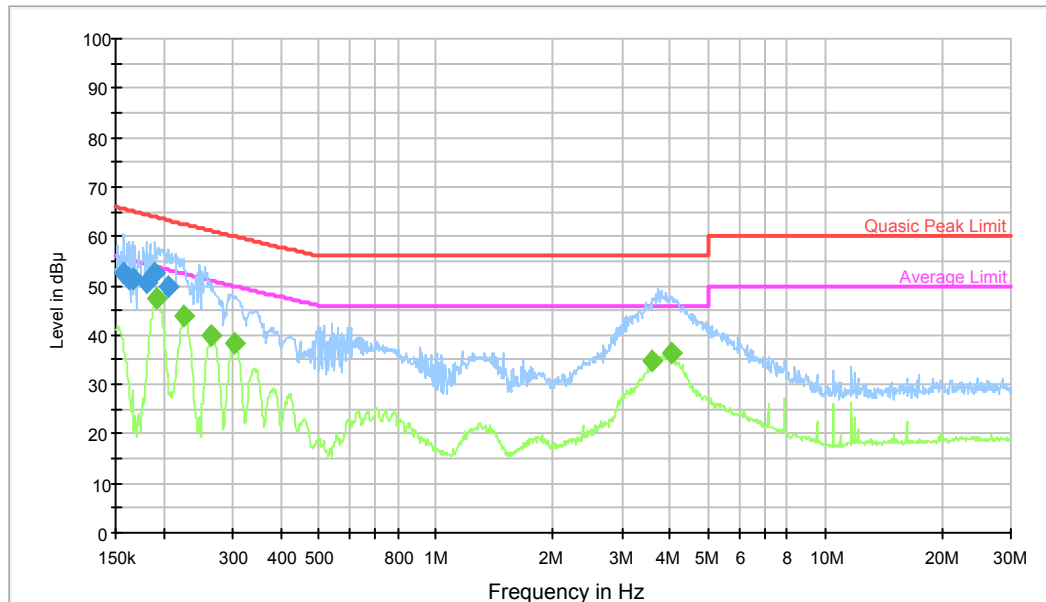
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.161175	51.4	9.000	L1	19.7	14.0	65.4
0.164425	50.2	9.000	L1	19.7	15.0	65.2
0.192124	51.6	9.000	L1	19.7	12.2	63.8
0.202358	49.6	9.000	L1	19.7	13.8	63.4
3.569929	44.0	9.000	L1	19.9	12.0	56.0
3.715324	44.6	9.000	L1	19.9	11.4	56.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.192124	45.6	9.000	L1	19.7	8.2	53.8
0.225388	41.7	9.000	L1	19.7	10.7	52.4
0.264411	38.0	9.000	L1	19.7	13.0	51.0
0.300440	35.9	9.000	L1	19.7	14.1	50.0
3.569929	36.4	9.000	L1	19.9	9.6	46.0
3.913226	37.7	9.000	L1	19.9	8.3	46.0

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.157990	52.5	9.000	N	19.6	13.0	65.5
0.162467	51.2	9.000	N	19.6	14.1	65.3
0.165743	51.2	9.000	N	19.6	13.9	65.1
0.180236	50.4	9.000	N	19.6	14.0	64.4
0.189837	52.6	9.000	N	19.6	11.3	63.9
0.205615	49.7	9.000	N	19.5	13.5	63.2

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.191359	47.3	9.000	N	19.5	6.5	53.8
0.225388	43.7	9.000	N	19.5	8.7	52.4
0.263357	39.8	9.000	N	19.5	11.3	51.1
0.304060	38.3	9.000	N	19.5	11.6	49.9
3.569929	34.8	9.000	N	19.6	11.2	46.0
4.024120	36.5	9.000	N	19.6	9.5	46.0

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
The corrected factor has been input into the transducer of the test software.
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

FCC §15.209, §15.205 & §15.407(b) (1), (2), (3), (4)(i), (5), (6), (7) – UNDESIRABLE EMISSION, RESTRICTED BANDS

Applicable Standard

FCC §15.407 (b) (1) (2) (3) (4)(i) (5) (6) (7); §15.209; §15.205

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
 - (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- The provisions of §15.205 apply to intentional radiators operating under this section.

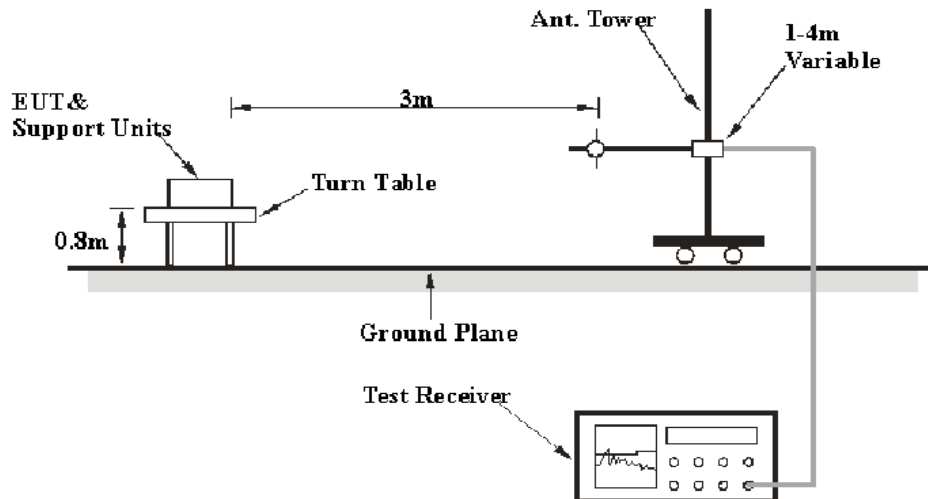
According to KDB 789033 D02 v01r04

General UNII Test Procedures v01, emission shall be computed as:

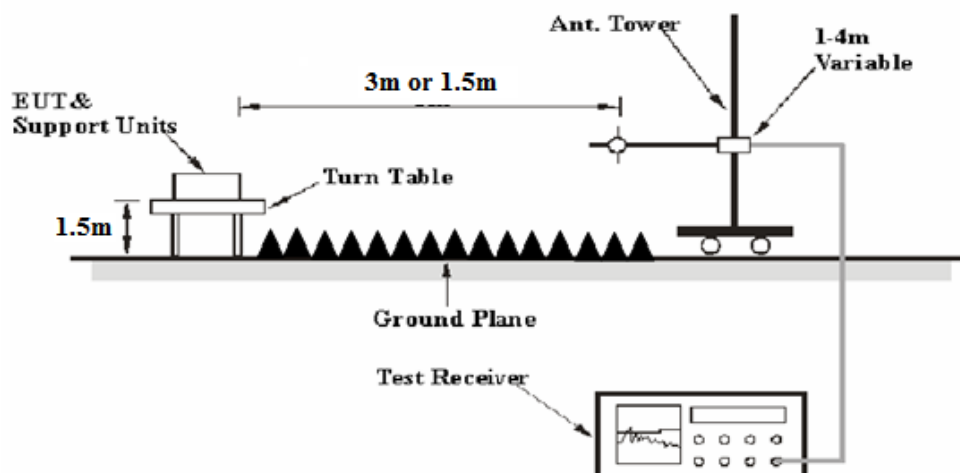
$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3$ meters.

EUT Setup

Below 1GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The POE was connected to AC 120V/60Hz.

The Adapter was connected to AC 120V/60Hz.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP

Frequency Range	RBW	Video B/W	Duty Cycle	Detector
Above 1 GHz	1MHz	3 MHz	Any	PK
	1MHz	10Hz	>98%	AV
	1MHz	1/T	<98%	AV

Note: T is Transmission Duration

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1 GHz.

According to KDB 789033 D02 v01r04 General UNII Test Procedures New Rules v01r03, emission shall be computed as: $E [dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1.5m

Distance extrapolation factor = $20 \log (\text{specific distance } [3m] / \text{test distance } [1.5m])$ dB

Extrapolation result = Corrected Amplitude (dB μ V/m) - distance extrapolation factor (6dB)

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Receiver Reading + Cable loss + Antenna Factor – Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit-Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, Section 15.205 and 15.209, Subpart E, Section 15.407.

Test Data

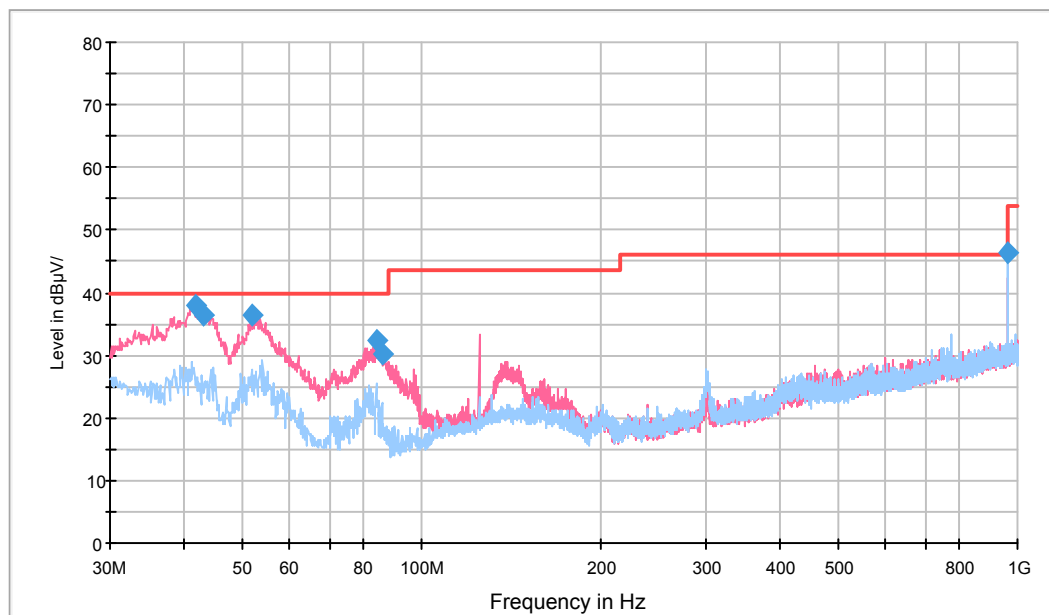
Environmental Conditions

Temperature:	30 - 31 °C
Relative Humidity:	52 - 56 %
ATM Pressure:	94.5 - 94.8 kPa

The testing was performed by Tom Tang on 2017-07-31 to 2017-08-03.
Test mode: Transmitting

Adapter Mode

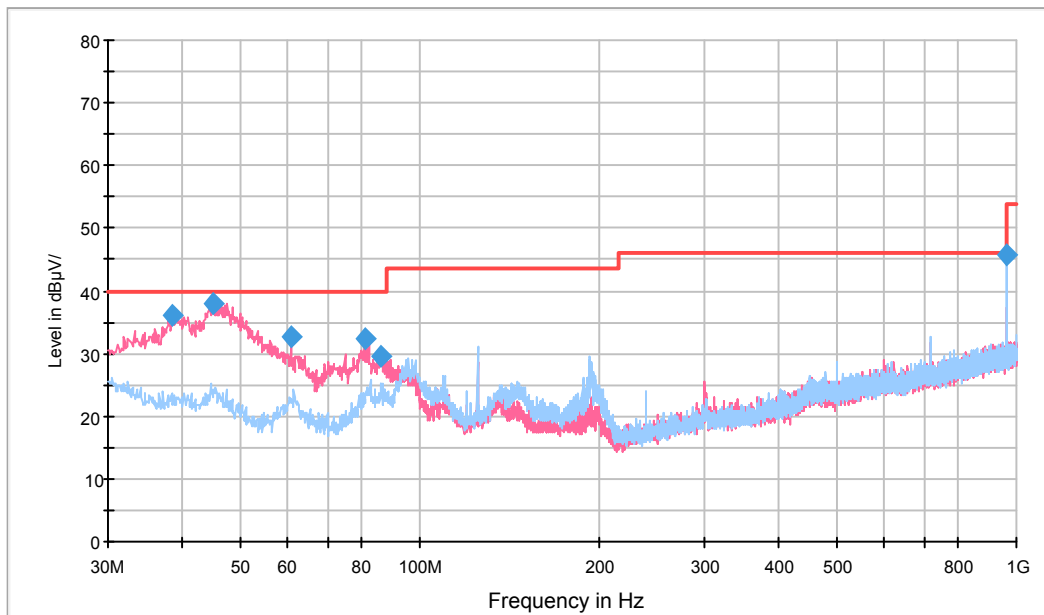
30 MHz to 1 GHz:



Frequency (MHz)	QuasicPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
41.640000	37.9	100.0	V	235.0	-8.2	*2.1	40.0
43.095000	36.5	150.0	V	146.0	-9.1	*3.5	40.0
51.825000	36.5	100.0	V	254.0	-13.1	*3.5	40.0
83.835000	32.5	165.0	V	244.0	-12.9	7.5	40.0
86.017500	30.1	200.0	V	289.0	-13.1	9.9	40.0
960.108750	46.3	100.0	H	340.0	4.4	7.6	53.9

*Within measurement uncertainty!

POE Mode



Frequency (MHz)	QuasicPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
38.487500	36.0	100.0	V	33.0	-6.4	*4.0	40.0
45.035000	38.0	100.0	V	186.0	-10.2	*2.0	40.0
60.797500	32.8	200.0	V	213.0	-13.5	7.2	40.0
80.803750	32.4	165.0	V	231.0	-12.7	7.6	40.0
86.138750	29.7	130.0	V	240.0	-13.1	10.3	40.0
960.108750	45.7	100.0	H	284.0	4.4	8.2	53.9

**Within measurement uncertainty!*

(Note: Above 1GHz was performed at distance 1.5m)

POE Mode

Worst Case

1GHz-40GHz

For 5150-5250 MHz

For 802.11a mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5180 MHz										
5180	78.26	PK	H	34.51	5.21	0.00	117.98	111.98	N/A	N/A
5180	66.95	AV	H	34.51	5.21	0.00	106.67	100.67	N/A	N/A
5180	82.05	PK	V	34.51	5.21	0.00	121.77	115.77	N/A	N/A
5180	70.91	AV	V	34.51	5.21	0.00	110.63	104.63	N/A	N/A
5150	30.48	PK	V	34.49	5.18	0.00	70.15	64.15	74.00	9.85
5150	16.41	AV	V	34.49	5.18	0.00	56.08	50.08	54.00	*3.92
10360	39.94	PK	V	38.67	7.76	26.37	60.00	54.00	74.00	20.00
10360	27.41	AV	V	38.67	7.76	26.37	47.47	41.47	54.00	12.53
15540	32.44	PK	V	38.52	10.22	25.32	55.86	49.86	74.00	24.14
15540	17.51	AV	V	38.52	10.22	25.32	40.93	34.93	54.00	19.07
Frequency: 5200 MHz										
5200	77.80	PK	H	34.52	5.23	0.00	117.55	111.55	N/A	N/A
5200	66.65	AV	H	34.52	5.23	0.00	106.40	100.40	N/A	N/A
5200	81.72	PK	V	34.52	5.23	0.00	121.47	115.47	N/A	N/A
5200	71.07	AV	V	34.52	5.23	0.00	110.82	104.82	N/A	N/A
10400	39.49	PK	V	38.68	7.79	26.36	59.60	53.60	74.00	20.40
10400	27.07	AV	V	38.68	7.79	26.36	47.18	41.18	54.00	12.82
15600	32.39	PK	V	38.56	10.22	25.31	55.86	49.86	74.00	24.14
15600	17.65	AV	V	38.56	10.22	25.31	41.12	35.12	54.00	18.88
Frequency: 5240 MHz										
5240	76.99	PK	H	34.54	5.27	0.00	116.80	110.80	N/A	N/A
5240	65.88	AV	H	34.54	5.27	0.00	105.69	99.69	N/A	N/A
5240	81.38	PK	V	34.54	5.27	0.00	121.19	115.19	N/A	N/A
5240	70.74	AV	V	34.54	5.27	0.00	110.55	104.55	N/A	N/A
5350	29.79	PK	V	34.61	5.37	0.00	69.77	63.77	74.00	10.23
5350	16.19	AV	V	34.61	5.37	0.00	56.17	50.17	54.00	*3.83
10480	38.89	PK	V	38.70	7.84	26.35	59.08	53.08	74.00	20.92
10480	26.47	AV	V	38.70	7.84	26.35	46.66	40.66	54.00	13.34
15720	32.22	PK	V	38.63	10.24	25.30	55.79	49.79	74.00	24.21
15720	17.35	AV	V	38.63	10.24	25.30	40.92	34.92	54.00	19.08

**Within measurement uncertainty!*

For 802.11n-HT20 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5180 MHz										
5180	79.29	PK	H	34.51	5.21	0.00	119.01	113.01	N/A	N/A
5180	67.59	AV	H	34.51	5.21	0.00	107.31	101.31	N/A	N/A
5180	82.18	PK	V	34.51	5.21	0.00	121.90	115.90	N/A	N/A
5180	70.75	AV	V	34.51	5.21	0.00	110.47	104.47	N/A	N/A
5150	29.28	PK	V	34.49	5.18	0.00	68.95	62.95	74.00	11.05
5150	16.36	AV	V	34.49	5.18	0.00	56.03	50.03	54.00	*3.97
10360	39.90	PK	V	38.67	7.76	26.37	59.96	53.96	74.00	20.04
10360	27.35	AV	V	38.67	7.76	26.37	47.41	41.41	54.00	12.59
15540	32.24	PK	V	38.52	10.22	25.32	55.66	49.66	74.00	24.34
15540	17.43	AV	V	38.52	10.22	25.32	40.85	34.85	54.00	19.15
Frequency: 5200 MHz										
5200	78.15	PK	H	34.52	5.23	0.00	117.90	111.90	N/A	N/A
5200	66.59	AV	H	34.52	5.23	0.00	106.34	100.34	N/A	N/A
5200	81.92	PK	V	34.52	5.23	0.00	121.67	115.67	N/A	N/A
5200	70.68	AV	V	34.52	5.23	0.00	110.43	104.43	N/A	N/A
10400	39.54	PK	V	38.68	7.79	26.36	59.65	53.65	74.00	20.35
10400	27.00	AV	V	38.68	7.79	26.36	47.11	41.11	54.00	12.89
15600	32.26	PK	V	38.56	10.22	25.31	55.73	49.73	74.00	24.27
15600	17.42	AV	V	38.56	10.22	25.31	40.89	34.89	54.00	19.11
Frequency: 5240 MHz										
5240	76.56	PK	H	34.54	5.27	0.00	116.37	110.37	N/A	N/A
5240	65.26	AV	H	34.54	5.27	0.00	105.07	99.07	N/A	N/A
5240	81.61	PK	V	34.54	5.27	0.00	121.42	115.42	N/A	N/A
5240	70.56	AV	V	34.54	5.27	0.00	110.37	104.37	N/A	N/A
5350	28.74	PK	V	34.61	5.37	0.00	68.72	62.72	74.00	11.28
5350	16.21	AV	V	34.61	5.37	0.00	56.19	50.19	54.00	*3.81
10480	38.75	PK	V	38.70	7.84	26.35	58.94	52.94	74.00	21.06
10480	26.28	AV	V	38.70	7.84	26.35	46.47	40.47	54.00	13.53
15720	32.07	PK	V	38.63	10.24	25.30	55.64	49.64	74.00	24.36
15720	17.29	AV	V	38.63	10.24	25.30	40.86	34.86	54.00	19.14

*Within measurement uncertainty!

For 802.11n-HT40 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5190 MHz										
5190	79.29	PK	H	34.51	5.22	0.00	119.02	113.02	N/A	N/A
5190	67.59	AV	H	34.51	5.22	0.00	107.32	101.32	N/A	N/A
5190	82.18	PK	V	34.51	5.22	0.00	121.91	115.91	N/A	N/A
5190	70.75	AV	V	34.51	5.22	0.00	110.48	104.48	N/A	N/A
5150	29.28	PK	V	34.49	5.18	0.00	68.95	62.95	74.00	11.05
5150	16.36	AV	V	34.49	5.18	0.00	56.03	50.03	54.00	*3.97
10380	39.16	PK	V	38.68	7.78	26.37	59.25	53.25	74.00	20.75
10380	26.20	AV	V	38.68	7.78	26.37	46.29	40.29	54.00	13.71
15570	32.27	PK	V	38.54	10.22	25.31	55.72	49.72	74.00	24.28
15570	17.25	AV	V	38.54	10.22	25.31	40.70	34.70	54.00	19.30
Frequency: 5230 MHz										
5230	76.56	PK	H	34.54	5.26	0.00	116.36	110.36	N/A	N/A
5230	65.26	AV	H	34.54	5.26	0.00	105.06	99.06	N/A	N/A
5230	81.61	PK	V	34.54	5.26	0.00	121.41	115.41	N/A	N/A
5230	70.56	AV	V	34.54	5.26	0.00	110.36	104.36	N/A	N/A
5350	28.74	PK	V	34.61	5.37	0.00	68.72	62.72	74.00	11.28
5350	16.21	AV	V	34.61	5.37	0.00	56.19	50.19	54.00	*3.81
10460	38.22	PK	V	38.69	7.83	26.36	58.38	52.38	74.00	21.62
10460	25.63	AV	V	38.69	7.83	26.36	45.79	39.79	54.00	14.21
15690	32.35	PK	V	38.61	10.24	25.30	55.90	49.90	74.00	24.10
15690	17.97	AV	V	38.61	10.24	25.30	41.52	35.52	54.00	18.48

*Within measurement uncertainty!

For 802.11ac20 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5180 MHz										
5180	78.59	PK	H	34.51	5.21	0.00	118.31	112.31	N/A	N/A
5180	67.65	AV	H	34.51	5.21	0.00	107.37	101.37	N/A	N/A
5180	81.86	PK	V	34.51	5.21	0.00	121.58	115.58	N/A	N/A
5180	70.81	AV	V	34.51	5.21	0.00	110.53	104.53	N/A	N/A
5150	29.01	PK	V	34.49	5.18	0.00	68.68	62.68	74.00	11.32
5150	16.07	AV	V	34.49	5.18	0.00	55.74	49.74	54.00	*4.26
10360	39.88	PK	V	38.67	7.76	26.37	59.94	53.94	74.00	20.06
10360	27.22	AV	V	38.67	7.76	26.37	47.28	41.28	54.00	12.72
15540	32.27	PK	V	38.52	10.22	25.32	55.69	49.69	74.00	24.31
15540	17.32	AV	V	38.52	10.22	25.32	40.74	34.74	54.00	19.26
Frequency: 5200 MHz										
5200	77.81	PK	H	34.52	5.23	0.00	117.56	111.56	N/A	N/A
5200	66.83	AV	H	34.52	5.23	0.00	106.58	100.58	N/A	N/A
5200	81.81	PK	V	34.52	5.23	0.00	121.56	115.56	N/A	N/A
5200	70.81	AV	V	34.52	5.23	0.00	110.56	104.56	N/A	N/A
10400	39.33	PK	V	38.68	7.79	26.36	59.44	53.44	74.00	20.56
10400	26.89	AV	V	38.68	7.79	26.36	47.00	41.00	54.00	13.00
15600	32.32	PK	V	38.56	10.22	25.31	55.79	49.79	74.00	24.21
15600	17.34	AV	V	38.56	10.22	25.31	40.81	34.81	54.00	19.19
Frequency: 5240 MHz										
5240	76.67	PK	H	34.54	5.27	0.00	116.48	110.48	N/A	N/A
5240	65.64	AV	H	34.54	5.27	0.00	105.45	99.45	N/A	N/A
5240	81.59	PK	V	34.54	5.27	0.00	121.40	115.40	N/A	N/A
5240	70.65	AV	V	34.54	5.27	0.00	110.46	104.46	N/A	N/A
5350	29.19	PK	V	34.61	5.37	0.00	69.17	63.17	74.00	10.83
5350	16.33	AV	V	34.61	5.37	0.00	56.31	50.31	54.00	*3.69
10480	38.70	PK	V	38.70	7.84	26.35	58.89	52.89	74.00	21.11
10480	26.38	AV	V	38.70	7.84	26.35	46.57	40.57	54.00	13.43
15720	32.19	PK	V	38.63	10.24	25.30	55.76	49.76	74.00	24.24
15720	17.13	AV	V	38.63	10.24	25.30	40.70	34.70	54.00	19.30

*Within measurement uncertainty!

For 802.11ac40 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5190 MHz										
5190	74.14	PK	H	34.51	5.22	0.00	113.87	107.87	N/A	N/A
5190	63.61	AV	H	34.51	5.22	0.00	103.34	97.34	N/A	N/A
5190	77.43	PK	V	34.51	5.22	0.00	117.16	111.16	N/A	N/A
5190	66.72	AV	V	34.51	5.22	0.00	106.45	100.45	N/A	N/A
5150	34.58	PK	V	34.49	5.18	0.00	74.25	68.25	74.00	5.75
5150	17.24	AV	V	34.49	5.18	0.00	56.91	50.91	54.00	*3.09
10380	38.88	PK	V	38.68	7.78	26.37	58.97	52.97	74.00	21.03
10380	26.12	AV	V	38.68	7.78	26.37	46.21	40.21	54.00	13.79
15570	32.22	PK	V	38.54	10.22	25.31	55.67	49.67	74.00	24.33
15570	17.13	AV	V	38.54	10.22	25.31	40.58	34.58	54.00	19.42
Frequency: 5230 MHz										
5230	73.74	PK	H	34.54	5.26	0.00	113.54	107.54	N/A	N/A
5230	62.87	AV	H	34.54	5.26	0.00	102.67	96.67	N/A	N/A
5230	77.84	PK	V	34.54	5.26	0.00	117.64	111.64	N/A	N/A
5230	67.07	AV	V	34.54	5.26	0.00	106.87	100.87	N/A	N/A
5350	27.35	PK	V	34.61	5.37	0.00	67.33	61.33	74.00	12.67
5350	16.65	AV	V	34.61	5.37	0.00	56.63	50.63	54.00	*3.37
10460	37.99	PK	V	38.69	7.83	26.36	58.15	52.15	74.00	21.85
10460	25.46	AV	V	38.69	7.83	26.36	45.62	39.62	54.00	14.38
15690	32.32	PK	V	38.61	10.24	25.30	55.87	49.87	74.00	24.13
15690	17.89	AV	V	38.61	10.24	25.30	41.44	35.44	54.00	18.56

*Within measurement uncertainty!

For 802.11ac80 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5210 MHz										
5210	70.66	PK	H	34.53	5.24	0.00	110.43	104.43	N/A	N/A
5210	59.76	AV	H	34.53	5.24	0.00	99.53	93.53	N/A	N/A
5210	74.91	PK	V	34.53	5.24	0.00	114.68	108.68	N/A	N/A
5210	62.84	AV	V	34.53	5.24	0.00	102.61	96.61	N/A	N/A
5150	34.92	PK	V	34.49	5.18	0.00	74.59	68.59	74.00	*5.41
5150	18.33	AV	V	34.49	5.18	0.00	58.00	52.00	54.00	*2.00
5350	26.89	PK	V	34.61	5.37	0.00	66.87	60.87	74.00	13.13
5350	16.55	AV	V	34.61	5.37	0.00	56.53	50.53	54.00	*3.47
10420	36.25	PK	V	38.68	7.80	26.36	56.37	50.37	74.00	23.63
10420	24.13	AV	V	38.68	7.80	26.36	44.25	38.25	54.00	15.75
15630	32.17	PK	V	38.58	10.23	25.31	55.67	49.67	74.00	24.33
15630	17.52	AV	V	38.58	10.23	25.31	41.02	35.02	54.00	18.98

*Within measurement uncertainty!

For 5250-5350 MHz:

For 802.11a mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5260 MHz										
5260	76.12	PK	H	34.56	5.28	0.00	115.96	109.96	N/A	N/A
5260	66.15	AV	H	34.56	5.28	0.00	105.99	99.99	N/A	N/A
5260	78.74	PK	V	34.56	5.28	0.00	118.58	112.58	N/A	N/A
5260	68.31	AV	V	34.56	5.28	0.00	108.15	102.15	N/A	N/A
5150	27.71	PK	V	34.49	5.18	0.00	67.38	61.38	74.00	12.62
5150	13.48	AV	V	34.49	5.18	0.00	53.15	47.15	54.00	6.85
10520	39.46	PK	V	38.71	7.86	26.34	59.69	53.69	74.00	20.31
10520	24.34	AV	V	38.71	7.86	26.34	44.57	38.57	54.00	15.43
15780	33.11	PK	V	38.67	10.25	25.30	56.73	50.73	74.00	23.27
15780	17.76	AV	V	38.67	10.25	25.30	41.38	35.38	54.00	18.62
Frequency: 5280 MHz										
5280	76.61	PK	H	34.57	5.30	0.00	116.48	110.48	N/A	N/A
5280	66.22	AV	H	34.57	5.30	0.00	106.09	100.09	N/A	N/A
5280	79.27	PK	V	34.57	5.30	0.00	119.14	113.14	N/A	N/A
5280	68.94	AV	V	34.57	5.30	0.00	108.81	102.81	N/A	N/A
10560	39.46	PK	V	38.72	7.89	26.32	59.75	53.75	74.00	20.25
10560	24.35	AV	V	38.72	7.89	26.32	44.64	38.64	54.00	15.36
15840	33.04	PK	V	38.70	10.26	25.29	56.71	50.71	74.00	23.29
15840	17.37	AV	V	38.70	10.26	25.29	41.04	35.04	54.00	18.96
Frequency: 5320 MHz										
5320	77.13	PK	H	34.59	5.34	0.00	117.06	111.06	N/A	N/A
5320	66.65	AV	H	34.59	5.34	0.00	106.58	100.58	N/A	N/A
5320	80.05	PK	V	34.59	5.34	0.00	119.98	113.98	N/A	N/A
5320	69.71	AV	V	34.59	5.34	0.00	109.64	103.64	N/A	N/A
5350	30.32	PK	V	34.61	5.37	0.00	70.30	64.30	74.00	9.70
5350	15.41	AV	V	34.61	5.37	0.00	55.39	49.39	54.00	*4.61
10640	39.57	PK	V	38.76	7.95	26.27	60.01	54.01	74.00	19.99
10640	24.67	AV	V	38.76	7.95	26.27	45.11	39.11	54.00	14.89
15960	32.97	PK	V	38.78	10.27	25.28	56.74	50.74	74.00	23.26
15960	17.46	AV	V	38.78	10.27	25.28	41.23	35.23	54.00	18.77

*Within measurement uncertainty!

For 802.11n-HT20 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5260 MHz										
5260	76.52	PK	H	34.56	5.28	0.00	116.36	110.36	N/A	N/A
5260	65.47	AV	H	34.56	5.28	0.00	105.31	99.31	N/A	N/A
5260	79.02	PK	V	34.56	5.28	0.00	118.86	112.86	N/A	N/A
5260	68.05	AV	V	34.56	5.28	0.00	107.89	101.89	N/A	N/A
5150	28.14	PK	V	34.49	5.18	0.00	67.81	61.81	74.00	12.19
5150	13.48	AV	V	34.49	5.18	0.00	53.15	47.15	54.00	6.85
10520	39.62	PK	V	38.71	7.86	26.34	59.85	53.85	74.00	20.15
10520	24.34	AV	V	38.71	7.86	26.34	44.57	38.57	54.00	15.43
15780	33.35	PK	V	38.67	10.25	25.30	56.97	50.97	74.00	23.03
15780	17.96	AV	V	38.67	10.25	25.30	41.58	35.58	54.00	18.42
Frequency: 5280 MHz										
5280	76.76	PK	H	34.57	5.30	0.00	116.63	110.63	N/A	N/A
5280	65.92	AV	H	34.57	5.30	0.00	105.79	99.79	N/A	N/A
5280	79.56	PK	V	34.57	5.30	0.00	119.43	113.43	N/A	N/A
5280	68.73	AV	V	34.57	5.30	0.00	108.60	102.60	N/A	N/A
10560	39.63	PK	V	38.72	7.89	26.32	59.92	53.92	74.00	20.08
10560	24.45	AV	V	38.72	7.89	26.32	44.74	38.74	54.00	15.26
15840	33.16	PK	V	38.70	10.26	25.29	56.83	50.83	74.00	23.17
15840	17.87	AV	V	38.70	10.26	25.29	41.54	35.54	54.00	18.46
Frequency: 5320 MHz										
5320	77.31	PK	H	34.59	5.34	0.00	117.24	111.24	N/A	N/A
5320	66.53	AV	H	34.59	5.34	0.00	106.46	100.46	N/A	N/A
5320	80.36	PK	V	34.59	5.34	0.00	120.29	114.29	N/A	N/A
5320	69.84	AV	V	34.59	5.34	0.00	109.77	103.77	N/A	N/A
5350	28.65	PK	V	34.61	5.37	0.00	68.63	62.63	74.00	11.37
5350	15.68	AV	V	34.61	5.37	0.00	55.66	49.66	54.00	*4.34
10640	39.88	PK	V	38.76	7.95	26.27	60.32	54.32	74.00	19.68
10640	24.78	AV	V	38.76	7.95	26.27	45.22	39.22	54.00	14.78
15960	33.21	PK	V	38.78	10.27	25.28	56.98	50.98	74.00	23.02
15960	17.78	AV	V	38.78	10.27	25.28	41.55	35.55	54.00	18.45

*Within measurement uncertainty!

For 802.11n-HT40 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5270 MHz										
5270	75.18	PK	H	34.56	5.29	0.00	115.03	109.03	N/A	N/A
5270	64.73	AV	H	34.56	5.29	0.00	104.58	98.58	N/A	N/A
5270	77.64	PK	V	34.56	5.29	0.00	117.49	111.49	N/A	N/A
5270	67.13	AV	V	34.56	5.29	0.00	106.98	100.98	N/A	N/A
5150	28.92	PK	V	34.49	5.18	0.00	68.59	62.59	74.00	11.41
5150	13.48	AV	V	34.49	5.18	0.00	53.15	47.15	54.00	6.85
10540	38.12	PK	V	38.72	7.88	26.33	58.39	52.39	74.00	21.61
10540	23.24	AV	V	38.72	7.88	26.33	43.51	37.51	54.00	16.49
15810	32.49	PK	V	38.69	10.25	25.30	56.13	50.13	74.00	23.87
15810	17.67	AV	V	38.69	10.25	25.30	41.31	35.31	54.00	18.69
Frequency: 5310 MHz										
5310	74.87	PK	H	34.59	5.33	0.00	114.79	108.79	N/A	N/A
5310	63.19	AV	H	34.59	5.33	0.00	103.11	97.11	N/A	N/A
5310	78.57	PK	V	34.59	5.33	0.00	118.49	112.49	N/A	N/A
5310	66.16	AV	V	34.59	5.33	0.00	106.08	100.08	N/A	N/A
5350	29.31	PK	V	34.61	5.37	0.00	69.29	63.29	74.00	10.71
5350	15.55	AV	V	34.61	5.37	0.00	55.53	49.53	54.00	4.47
10620	38.14	PK	V	38.75	7.93	26.28	58.54	52.54	74.00	21.46
10620	23.25	AV	V	38.75	7.93	26.28	43.65	37.65	54.00	16.35
15930	32.21	PK	V	38.76	10.27	25.29	55.95	49.95	74.00	24.05
15930	17.53	AV	V	38.76	10.27	25.29	41.27	35.27	54.00	18.73

*Within measurement uncertainty!

For 802.11ac20 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5260 MHz										
5260	76.77	PK	H	34.56	5.28	0.00	116.61	110.61	N/A	N/A
5260	65.79	AV	H	34.56	5.28	0.00	105.63	99.63	N/A	N/A
5260	79.07	PK	V	34.56	5.28	0.00	118.86	112.86	N/A	N/A
5260	68.17	AV	V	34.56	5.28	0.00	108.01	102.01	N/A	N/A
5150	28.78	PK	V	34.49	5.18	0.00	67.81	61.81	74.00	12.19
5150	13.48	AV	V	34.49	5.18	0.00	53.15	47.15	54.00	6.85
10520	39.69	PK	V	38.71	7.86	26.34	59.92	53.92	74.00	20.08
10520	24.47	AV	V	38.71	7.86	26.34	44.70	38.70	54.00	15.30
15780	33.40	PK	V	38.67	10.25	25.30	57.02	51.02	74.00	22.98
15780	17.86	AV	V	38.67	10.25	25.30	41.48	35.48	54.00	18.52
Frequency: 5280 MHz										
5280	77.42	PK	H	34.57	5.30	0.00	117.29	111.29	N/A	N/A
5280	66.18	AV	H	34.57	5.30	0.00	106.05	100.05	N/A	N/A
5280	79.67	PK	V	34.57	5.30	0.00	119.54	113.54	N/A	N/A
5280	68.90	AV	V	34.57	5.30	0.00	108.77	102.77	N/A	N/A
10560	39.61	PK	V	38.72	7.89	26.32	59.90	53.90	74.00	20.10
10560	24.51	AV	V	38.72	7.89	26.32	44.80	38.80	54.00	15.20
15840	33.05	PK	V	38.70	10.26	25.29	56.72	50.72	74.00	23.28
15840	17.46	AV	V	38.70	10.26	25.29	41.13	35.13	54.00	18.87
Frequency: 5320 MHz										
5320	78.21	PK	H	34.59	5.34	0.00	118.14	112.14	N/A	N/A
5320	66.67	AV	H	34.59	5.34	0.00	106.60	100.60	N/A	N/A
5320	80.71	PK	V	34.59	5.34	0.00	120.64	114.64	N/A	N/A
5320	69.84	AV	V	34.59	5.34	0.00	109.77	103.77	N/A	N/A
5350	29.01	PK	V	34.61	5.37	0.00	68.99	62.99	74.00	11.01
5350	15.27	AV	V	34.61	5.37	0.00	55.25	49.25	54.00	*4.75
10640	39.70	PK	V	38.76	7.95	26.27	60.14	54.14	74.00	19.86
10640	24.83	AV	V	38.76	7.95	26.27	45.27	39.27	54.00	14.73
15960	33.10	PK	V	38.78	10.27	25.28	56.87	50.87	74.00	23.13
15960	17.48	AV	V	38.78	10.27	25.28	41.25	35.25	54.00	18.75

*Within measurement uncertainty!

For 802.11ac40 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5270 MHz										
5270	75.88	PK	H	34.56	5.29	0.00	115.73	109.73	N/A	N/A
5270	64.82	AV	H	34.56	5.29	0.00	104.67	98.67	N/A	N/A
5270	77.73	PK	V	34.56	5.29	0.00	117.58	111.58	N/A	N/A
5270	67.06	AV	V	34.56	5.29	0.00	106.91	100.91	N/A	N/A
5150	29.22	PK	V	34.49	5.18	0.00	68.89	62.89	74.00	11.11
5150	13.48	AV	V	34.49	5.18	0.00	53.15	47.15	54.00	6.85
10540	37.89	PK	V	38.72	7.88	26.33	58.16	52.16	74.00	21.84
10540	23.17	AV	V	38.72	7.88	26.33	43.44	37.44	54.00	16.56
15810	32.31	PK	V	38.69	10.25	25.30	55.95	49.95	74.00	24.05
15810	17.59	AV	V	38.69	10.25	25.30	41.23	35.23	54.00	18.77
Frequency: 5310 MHz										
5310	74.95	PK	H	34.59	5.33	0.00	114.87	108.87	N/A	N/A
5310	62.89	AV	H	34.59	5.33	0.00	102.81	96.81	N/A	N/A
5310	78.88	PK	V	34.59	5.33	0.00	118.80	112.80	N/A	N/A
5310	66.49	AV	V	34.59	5.33	0.00	106.41	100.41	N/A	N/A
5350	31.11	PK	V	34.61	5.37	0.00	71.09	65.09	74.00	8.91
5350	15.53	AV	V	34.61	5.37	0.00	55.51	49.51	54.00	*4.49
10620	38.02	PK	V	38.75	7.93	26.28	58.42	52.42	74.00	21.58
10620	23.25	AV	V	38.75	7.93	26.28	43.65	37.65	54.00	16.35
15930	32.18	PK	V	38.76	10.27	25.29	55.92	49.92	74.00	24.08
15930	17.26	AV	V	38.76	10.27	25.29	41.00	35.00	54.00	19.00

*Within measurement uncertainty!

For 802.11ac80 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5290 MHz										
5290	72.12	PK	H	34.57	5.31	0.00	112.00	106.00	N/A	N/A
5290	61.49	AV	H	34.57	5.31	0.00	101.37	95.37	N/A	N/A
5290	74.28	PK	V	34.57	5.31	0.00	114.16	108.16	N/A	N/A
5290	62.34	AV	V	34.57	5.31	0.00	102.22	96.22	N/A	N/A
5150	29.38	PK	V	34.49	5.18	0.00	69.05	63.05	74.00	10.95
5150	13.48	AV	V	34.49	5.18	0.00	53.15	47.15	54.00	6.85
5350	31.37	PK	V	34.61	5.37	0.00	71.35	65.35	74.00	8.65
5350	15.19	AV	V	34.61	5.37	0.00	55.17	49.17	54.00	*4.83
10580	36.17	PK	V	38.73	7.91	26.30	56.51	50.51	74.00	23.49
10580	22.27	AV	V	38.73	7.91	26.30	42.61	36.61	54.00	17.39
15870	32.37	PK	V	38.72	10.26	25.29	56.06	50.06	74.00	23.94
15870	17.49	AV	V	38.72	10.26	25.29	41.18	35.18	54.00	18.82

*Within measurement uncertainty!

For 5470-5725 MHz

For 802.11a mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifie r Gain (dB)	Corrected Amplitude (dBµV/m)	Extrapolation Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5500 MHz										
5500	81.72	PK	H	34.70	5.52	0.00	121.94	115.94	N/A	N/A
5500	71.51	AV	H	34.70	5.52	0.00	111.73	105.73	N/A	N/A
5500	83.75	PK	V	34.70	5.52	0.00	123.97	117.97	N/A	N/A
5500	72.93	AV	V	34.70	5.52	0.00	113.15	107.15	N/A	N/A
5470	32.15	PK	V	34.68	5.49	0.00	72.32	66.32	74.00	7.68
5470	17.01	AV	V	34.68	5.49	0.00	57.18	51.18	54.00	*2.82
11000	38.11	PK	V	38.90	8.20	26.06	59.15	53.15	74.00	20.85
11000	23.02	AV	V	38.90	8.20	26.06	44.06	38.06	54.00	15.94
16500	32.47	PK	V	39.80	10.44	25.48	57.23	51.23	74.00	22.77
16500	17.31	AV	V	39.80	10.44	25.48	42.07	36.07	54.00	17.93
Frequency: 5600 MHz										
5600	82.21	PK	H	34.72	5.61	0.00	122.54	116.54	N/A	N/A
5600	72.45	AV	H	34.72	5.61	0.00	112.78	106.78	N/A	N/A
5600	84.37	PK	V	34.72	5.61	0.00	124.70	118.70	N/A	N/A
5600	73.57	AV	V	34.72	5.61	0.00	113.90	107.90	N/A	N/A
11200	44.64	PK	V	38.90	8.21	26.04	65.71	59.71	74.00	14.29
11200	29.56	AV	V	38.90	8.21	26.04	50.63	44.63	54.00	9.37
16800	37.51	PK	V	40.82	10.43	25.59	63.17	57.17	74.00	16.83
16800	22.14	AV	V	40.82	10.43	25.59	47.80	41.80	54.00	12.20
Frequency: 5700 MHz										
5700	83.21	PK	H	34.74	5.70	0.00	123.65	117.65	N/A	N/A
5700	73.45	AV	H	34.74	5.70	0.00	113.89	107.89	N/A	N/A
5700	85.35	PK	V	34.74	5.70	0.00	125.79	119.79	N/A	N/A
5700	74.75	AV	V	34.74	5.70	0.00	115.19	109.19	N/A	N/A
5725	32.44	PK	V	34.75	5.72	0.00	72.91	66.91	74.00	7.09
5725	17.33	AV	V	34.75	5.72	0.00	57.80	51.80	54.00	*2.20
11400	51.18	PK	V	38.90	8.22	26.03	72.27	66.27	74.00	7.73
11400	36.24	AV	V	38.90	8.22	26.03	57.33	51.33	54.00	*2.67
17100	43.29	PK	V	41.94	10.60	25.80	70.03	64.03	74.00	9.97
17100	27.55	AV	V	41.94	10.60	25.80	54.29	48.29	54.00	5.71
Frequency: 5720 MHz										
5720	83.84	PK	H	34.74	5.71	0.00	124.29	118.29	N/A	N/A
5720	73.74	AV	H	34.74	5.71	0.00	114.19	108.19	N/A	N/A
5720	86.05	PK	V	34.74	5.71	0.00	126.50	120.50	N/A	N/A
5720	75.10	AV	V	34.74	5.71	0.00	115.55	109.55	N/A	N/A
11440	51.44	PK	V	38.90	8.22	26.02	72.54	66.54	74.00	7.46
11440	36.91	AV	V	38.90	8.22	26.02	58.01	52.01	54.00	*1.99
17160	43.77	PK	V	42.20	10.70	25.89	70.78	64.78	74.00	9.22
17160	27.82	AV	V	42.20	10.70	25.89	54.83	48.83	54.00	*5.17

**Within measurement uncertainty!*

For 802.11n-HT20 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5500 MHz										
5500	81.58	PK	H	34.70	5.52	0.00	121.80	115.80	N/A	N/A
5500	70.29	AV	H	34.70	5.52	0.00	110.51	104.51	N/A	N/A
5500	83.31	PK	V	34.70	5.52	0.00	123.53	117.53	N/A	N/A
5500	71.55	AV	V	34.70	5.52	0.00	111.77	105.77	N/A	N/A
5470	31.47	PK	V	34.68	5.49	0.00	71.64	65.64	74.00	8.36
5470	16.89	AV	V	34.68	5.49	0.00	57.06	51.06	54.00	*2.94
11000	38.26	PK	V	38.90	8.20	26.06	59.30	53.30	74.00	20.70
11000	23.17	AV	V	38.90	8.20	26.06	44.21	38.21	54.00	15.79
16500	32.11	PK	V	39.80	10.44	25.48	56.87	50.87	74.00	23.13
16500	17.42	AV	V	39.80	10.44	25.48	42.18	36.18	54.00	17.82
Frequency: 5600 MHz										
5600	81.68	PK	H	34.72	5.61	0.00	122.01	116.01	N/A	N/A
5600	70.57	AV	H	34.72	5.61	0.00	110.90	104.90	N/A	N/A
5600	83.98	PK	V	34.72	5.61	0.00	124.31	118.31	N/A	N/A
5600	73.01	AV	V	34.72	5.61	0.00	113.34	107.34	N/A	N/A
11200	44.63	PK	V	38.90	8.21	26.04	65.70	59.70	74.00	14.30
11200	28.66	AV	V	38.90	8.21	26.04	49.73	43.73	54.00	10.27
16800	37.18	PK	V	40.82	10.43	25.59	62.84	56.84	74.00	17.16
16800	21.99	AV	V	40.82	10.43	25.59	47.65	41.65	54.00	12.35
Frequency: 5700 MHz										
5700	81.97	PK	H	34.74	5.70	0.00	122.41	116.41	N/A	N/A
5700	71.65	AV	H	34.74	5.70	0.00	112.09	106.09	N/A	N/A
5700	85.17	PK	V	34.74	5.70	0.00	125.61	119.61	N/A	N/A
5700	74.59	AV	V	34.74	5.70	0.00	115.03	109.03	N/A	N/A
5725	35.17	PK	V	34.75	5.72	0.00	75.64	69.64	74.00	*4.36
5725	18.05	AV	V	34.75	5.72	0.00	58.52	52.52	54.00	*1.48
11400	51.61	PK	V	38.90	8.22	26.03	72.70	66.70	74.00	7.30
11400	34.69	AV	V	38.90	8.22	26.03	55.78	49.78	54.00	*4.22
17100	42.55	PK	V	41.94	10.60	25.80	69.29	63.29	74.00	10.71
17100	26.98	AV	V	41.94	10.60	25.80	53.72	47.72	54.00	6.28
Frequency: 5720 MHz										
5720	82.87	PK	H	34.74	5.71	0.00	123.32	117.32	N/A	N/A
5720	72.53	AV	H	34.74	5.71	0.00	112.98	106.98	N/A	N/A
5720	85.97	PK	V	34.74	5.71	0.00	126.42	120.42	N/A	N/A
5720	74.66	AV	V	34.74	5.71	0.00	115.11	109.11	N/A	N/A
11440	51.77	PK	V	38.90	8.22	26.02	72.87	66.87	74.00	7.13
11440	35.85	AV	V	38.90	8.22	26.02	56.95	50.95	54.00	*3.05
17160	43.04	PK	V	42.20	10.70	25.89	70.05	64.05	74.00	9.95
17160	27.15	AV	V	42.20	10.70	25.89	54.16	48.16	54.00	5.84

*Within measurement uncertainty!

For 802.11n-HT40 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5510 MHz										
5510	75.96	PK	H	34.70	5.53	0.00	116.19	110.19	N/A	N/A
5510	63.69	AV	H	34.70	5.53	0.00	103.92	97.92	N/A	N/A
5510	82.11	PK	V	34.70	5.53	0.00	122.34	116.34	N/A	N/A
5510	69.88	AV	V	34.70	5.53	0.00	110.11	104.11	N/A	N/A
5470	33.91	PK	V	34.68	5.49	0.00	74.08	68.08	74.00	5.92
5470	18.14	AV	V	34.68	5.49	0.00	58.31	52.31	54.00	*1.69
11020	36.11	PK	V	38.90	8.20	26.06	57.15	51.15	74.00	22.85
11020	18.51	AV	V	38.90	8.20	26.06	39.55	33.55	54.00	20.45
16530	32.56	PK	V	39.90	10.44	25.49	57.41	51.41	74.00	22.59
16530	17.77	AV	V	39.90	10.44	25.49	42.62	36.62	54.00	17.38
Frequency: 5590 MHz										
5590	77.04	PK	H	34.72	5.60	0.00	117.36	111.36	N/A	N/A
5590	65.49	AV	H	34.72	5.60	0.00	105.81	99.81	N/A	N/A
5590	82.41	PK	V	34.72	5.60	0.00	122.73	116.73	N/A	N/A
5590	69.67	AV	V	34.72	5.60	0.00	109.99	103.99	N/A	N/A
11180	38.94	PK	V	38.90	8.21	26.05	60.00	54.00	74.00	20.00
11180	21.35	AV	V	38.90	8.21	26.05	42.41	36.41	54.00	17.59
16770	33.41	PK	V	40.72	10.43	25.58	58.98	52.98	74.00	21.02
16770	18.14	AV	V	40.72	10.43	25.58	43.71	37.71	54.00	16.29
Frequency: 5670 MHz										
5670	78.34	PK	H	34.73	5.67	0.00	118.74	112.74	N/A	N/A
5670	67.79	AV	H	34.73	5.67	0.00	108.19	102.19	N/A	N/A
5670	82.77	PK	V	34.73	5.67	0.00	123.17	117.17	N/A	N/A
5670	70.15	AV	V	34.73	5.67	0.00	110.55	104.55	N/A	N/A
5725	30.34	PK	V	34.75	5.72	0.00	70.81	64.81	74.00	9.19
5725	15.41	AV	V	34.75	5.72	0.00	55.88	49.88	54.00	*4.12
11340	42.23	PK	V	38.90	8.21	26.03	63.31	57.31	74.00	16.69
11340	24.36	AV	V	38.90	8.21	26.03	45.44	39.44	54.00	14.56
17010	34.89	PK	V	41.54	10.45	25.67	61.21	55.21	74.00	18.79
17010	18.96	AV	V	41.54	10.45	25.67	45.28	39.28	54.00	14.72
Frequency: 5710 MHz										
5710	78.71	PK	H	34.74	5.70	0.00	119.15	113.15	N/A	N/A
5710	68.94	AV	H	34.74	5.70	0.00	109.38	103.38	N/A	N/A
5710	83.83	PK	V	34.74	5.70	0.00	124.27	118.27	N/A	N/A
5710	70.99	AV	V	34.74	5.70	0.00	111.43	105.43	N/A	N/A
11420	42.97	PK	V	38.90	8.22	26.03	64.06	58.06	74.00	15.94
11420	25.02	AV	V	38.90	8.22	26.03	46.11	40.11	54.00	13.89
17130	35.92	PK	V	42.07	10.65	25.84	62.80	56.80	74.00	17.20
17130	19.61	AV	V	42.07	10.65	25.84	46.49	40.49	54.00	13.51

*Within measurement uncertainty!

For 802.11ac20 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5500 MHz										
5500	81.74	PK	H	34.70	5.52	0.00	121.96	115.96	N/A	N/A
5500	69.55	AV	H	34.70	5.52	0.00	109.77	103.77	N/A	N/A
5500	83.27	PK	V	34.70	5.52	0.00	123.49	117.49	N/A	N/A
5500	70.91	AV	V	34.70	5.52	0.00	111.13	105.13	N/A	N/A
5470	31.97	PK	V	34.68	5.49	0.00	72.14	66.14	74.00	7.86
5470	17.06	AV	V	34.68	5.49	0.00	57.23	51.23	54.00	*2.77
11000	38.67	PK	V	38.90	8.20	26.06	59.71	53.71	74.00	20.29
11000	23.43	AV	V	38.90	8.20	26.06	44.47	38.47	54.00	15.53
16500	32.21	PK	V	39.80	10.44	25.48	56.97	50.97	74.00	23.03
16500	17.87	AV	V	39.80	10.44	25.48	42.63	36.63	54.00	17.37
Frequency: 5600 MHz										
5600	82.18	PK	H	34.72	5.61	0.00	122.51	116.51	N/A	N/A
5600	71.24	AV	H	34.72	5.61	0.00	111.57	105.57	N/A	N/A
5600	84.14	PK	V	34.72	5.61	0.00	124.47	118.47	N/A	N/A
5600	72.17	AV	V	34.72	5.61	0.00	112.50	106.50	N/A	N/A
11200	44.65	PK	V	38.90	8.21	26.04	65.72	59.72	74.00	14.28
11200	28.26	AV	V	38.90	8.21	26.04	49.33	43.33	54.00	10.67
16800	37.26	PK	V	40.82	10.43	25.59	62.92	56.92	74.00	17.08
16800	22.77	AV	V	40.82	10.43	25.59	48.43	42.43	54.00	11.57
Frequency: 5700 MHz										
5700	83.07	PK	H	34.74	5.70	0.00	123.51	117.51	N/A	N/A
5700	72.96	AV	H	34.74	5.70	0.00	113.40	107.40	N/A	N/A
5700	85.63	PK	V	34.74	5.70	0.00	126.07	120.07	N/A	N/A
5700	73.91	AV	V	34.74	5.70	0.00	114.35	108.35	N/A	N/A
5725	34.97	PK	V	34.75	5.72	0.00	75.44	69.44	74.00	*4.56
5725	17.89	AV	V	34.75	5.72	0.00	58.36	52.36	54.00	*1.64
11400	51.31	PK	V	38.90	8.22	26.03	72.40	66.40	74.00	7.60
11400	33.48	AV	V	38.90	8.22	26.03	54.57	48.57	54.00	*5.43
17100	42.97	PK	V	41.94	10.60	25.80	69.71	63.71	74.00	10.29
17100	27.87	AV	V	41.94	10.60	25.80	54.61	48.61	54.00	*5.39
Frequency: 5720 MHz										
5720	83.47	PK	H	34.74	5.71	0.00	123.92	117.92	N/A	N/A
5720	72.97	AV	H	34.74	5.71	0.00	113.42	107.42	N/A	N/A
5720	86.44	PK	V	34.74	5.71	0.00	126.89	120.89	N/A	N/A
5720	74.31	AV	V	34.74	5.71	0.00	114.76	108.76	N/A	N/A
11440	52.11	PK	V	38.90	8.22	26.02	73.21	67.21	74.00	6.79
11440	34.20	AV	V	38.90	8.22	26.02	55.30	49.30	54.00	*4.70
17160	43.98	PK	V	42.20	10.70	25.89	70.99	64.99	74.00	9.01
17160	28.09	AV	V	42.20	10.70	25.89	55.10	49.10	54.00	*4.90

*Within measurement uncertainty!

For 802.11ac40 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5510 MHz										
5510	76.73	PK	H	34.70	5.53	0.00	116.96	110.96	N/A	N/A
5510	62.39	AV	H	34.70	5.53	0.00	102.62	96.62	N/A	N/A
5510	81.72	PK	V	34.70	5.53	0.00	121.95	115.95	N/A	N/A
5510	68.76	AV	V	34.70	5.53	0.00	108.99	102.99	N/A	N/A
5470	34.16	PK	V	34.68	5.49	0.00	74.33	68.33	74.00	5.67
5470	18.34	AV	V	34.68	5.49	0.00	58.51	52.51	54.00	*1.49
11020	36.79	PK	V	38.90	8.20	26.06	57.83	51.83	74.00	22.17
11020	18.67	AV	V	38.90	8.20	26.06	39.71	33.71	54.00	20.29
16530	32.23	PK	V	39.90	10.44	25.49	57.08	51.08	74.00	22.92
16530	18.02	AV	V	39.90	10.44	25.49	42.87	36.87	54.00	17.13
Frequency: 5590 MHz										
5590	77.66	PK	H	34.72	5.60	0.00	117.98	111.98	N/A	N/A
5590	64.21	AV	H	34.72	5.60	0.00	104.53	98.53	N/A	N/A
5590	82.07	PK	V	34.72	5.60	0.00	122.39	116.39	N/A	N/A
5590	69.92	AV	V	34.72	5.60	0.00	110.24	104.24	N/A	N/A
11180	39.09	PK	V	38.90	8.21	26.05	60.15	54.15	74.00	19.85
11180	21.29	AV	V	38.90	8.21	26.05	42.35	36.35	54.00	17.65
16770	33.50	PK	V	40.72	10.43	25.58	59.07	53.07	74.00	20.93
16770	18.52	AV	V	40.72	10.43	25.58	44.09	38.09	54.00	15.91
Frequency: 5670 MHz										
5670	78.91	PK	H	34.73	5.67	0.00	119.31	113.31	N/A	N/A
5670	66.69	AV	H	34.73	5.67	0.00	107.09	101.09	N/A	N/A
5670	82.43	PK	V	34.73	5.67	0.00	122.83	116.83	N/A	N/A
5670	71.09	AV	V	34.73	5.67	0.00	111.49	105.49	N/A	N/A
5725	30.69	PK	V	34.75	5.72	0.00	71.16	65.16	74.00	8.84
5725	15.73	AV	V	34.75	5.72	0.00	56.20	50.20	54.00	*3.80
11340	41.63	PK	V	38.90	8.21	26.03	62.71	56.71	74.00	17.29
11340	24.18	AV	V	38.90	8.21	26.03	45.26	39.26	54.00	14.74
17010	35.34	PK	V	41.54	10.45	25.67	61.66	55.66	74.00	18.34
17010	19.27	AV	V	41.54	10.45	25.67	45.59	39.59	54.00	14.41
Frequency: 5710 MHz										
5710	79.45	PK	H	34.74	5.70	0.00	119.89	113.89	N/A	N/A
5710	66.78	AV	H	34.74	5.70	0.00	107.22	101.22	N/A	N/A
5710	83.33	PK	V	34.74	5.70	0.00	123.77	117.77	N/A	N/A
5710	71.80	AV	V	34.74	5.70	0.00	112.24	106.24	N/A	N/A
11420	41.92	PK	V	38.90	8.22	26.03	63.01	57.01	74.00	16.99
11420	24.29	AV	V	38.90	8.22	26.03	45.38	39.38	54.00	14.62
17130	35.47	PK	V	42.07	10.65	25.84	62.35	56.35	74.00	17.65
17130	19.74	AV	V	42.07	10.65	25.84	46.62	40.62	54.00	13.38

*Within measurement uncertainty!

For 802.11ac80 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5530 MHz										
5530	76.33	PK	H	34.71	5.55	0.00	116.59	110.59	N/A	N/A
5530	63.47	AV	H	34.71	5.55	0.00	103.73	97.73	N/A	N/A
5530	78.15	PK	V	34.71	5.55	0.00	118.41	112.41	N/A	N/A
5530	65.32	AV	V	34.71	5.55	0.00	105.58	99.58	N/A	N/A
5470	33.92	PK	V	34.68	5.49	0.00	74.09	68.09	74.00	5.91
5470	17.22	AV	V	34.68	5.49	0.00	57.39	51.39	54.00	*2.61
11060	33.74	PK	V	38.90	8.20	26.06	54.78	48.78	74.00	25.22
11060	19.51	AV	V	38.90	8.20	26.06	40.55	34.55	54.00	19.45
16590	32.13	PK	V	40.11	10.44	25.51	57.17	51.17	74.00	22.83
16590	17.46	AV	V	40.11	10.44	25.51	42.50	36.50	54.00	17.50
Frequency: 5610 MHz										
5610	77.16	PK	H	34.72	5.62	0.00	117.50	111.50	N/A	N/A
5610	64.52	AV	H	34.72	5.62	0.00	104.86	98.86	N/A	N/A
5610	79.31	PK	V	34.72	5.62	0.00	119.65	113.65	N/A	N/A
5610	66.54	AV	V	34.72	5.62	0.00	106.88	100.88	N/A	N/A
5725	30.88	PK	V	34.75	5.72	0.00	71.35	65.35	74.00	8.65
5725	17.21	AV	V	34.75	5.72	0.00	57.68	51.68	54.00	*2.32
11220	36.54	PK	V	38.90	8.21	26.04	57.61	51.61	74.00	22.39
11220	21.68	AV	V	38.90	8.21	26.04	42.75	36.75	54.00	17.25
16830	32.66	PK	V	40.92	10.43	25.60	58.41	52.41	74.00	21.59
16830	17.99	AV	V	40.92	10.43	25.60	43.74	37.74	54.00	16.26
Frequency: 5690 MHz										
5690	78.02	PK	H	34.74	5.69	0.00	118.45	112.45	N/A	N/A
5690	65.65	AV	H	34.74	5.69	0.00	106.08	100.08	N/A	N/A
5690	80.35	PK	V	34.74	5.69	0.00	120.78	114.78	N/A	N/A
5690	66.64	AV	V	34.74	5.69	0.00	107.07	101.07	N/A	N/A
11380	37.29	PK	V	38.90	8.22	26.03	58.38	52.38	74.00	21.62
11380	22.13	AV	V	38.90	8.22	26.03	43.22	37.22	54.00	16.78
17070	33.42	PK	V	41.81	10.55	25.76	60.02	54.02	74.00	19.98
17070	18.84	AV	V	41.81	10.55	25.76	45.44	39.44	54.00	14.56

*Within measurement uncertainty!

For 5725-5850 MHz

For 802.11a mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5745 MHz										
5745	82.74	PK	H	34.75	5.74	0.00	123.23	117.23	N/A	N/A
5745	72.28	AV	H	34.75	5.74	0.00	112.77	106.77	N/A	N/A
5745	84.02	PK	V	34.75	5.74	0.00	124.51	118.51	N/A	N/A
5745	72.85	AV	V	34.75	5.74	0.00	113.34	107.34	N/A	N/A
5650	29.29	PK	V	34.73	5.65	0.00	69.67	63.67	68.20	*4.53
5700	29.91	PK	V	34.74	5.70	0.00	70.35	64.35	105.20	40.85
5720	37.05	PK	V	34.74	5.71	0.00	77.50	71.50	110.80	39.30
5725	43.53	PK	V	34.75	5.72	0.00	84.00	78.00	122.20	44.20
11490	43.54	PK	V	38.90	8.22	26.02	64.64	58.64	74.00	15.36
11490	28.69	AV	V	38.90	8.22	26.02	49.79	43.79	54.00	10.21
17235	37.46	PK	V	42.53	10.82	25.99	64.82	58.82	74.00	15.18
17235	18.35	AV	V	42.53	10.82	25.99	45.71	39.71	54.00	14.29
Frequency: 5785 MHz										
5785	82.86	PK	H	34.76	5.77	0.00	123.39	117.39	N/A	N/A
5785	71.77	AV	H	34.76	5.77	0.00	112.30	106.30	N/A	N/A
5785	84.71	PK	V	34.76	5.77	0.00	125.24	119.24	N/A	N/A
5785	73.50	AV	V	34.76	5.77	0.00	114.03	108.03	N/A	N/A
11570	47.69	PK	V	38.91	8.21	26.00	68.81	62.81	74.00	11.19
11570	31.99	AV	V	38.91	8.21	26.00	53.11	47.11	54.00	6.89
17355	40.76	PK	V	43.06	11.03	26.16	68.69	62.69	74.00	11.31
17355	22.74	AV	V	43.06	11.03	26.16	50.67	44.67	54.00	9.33
Frequency: 5825 MHz										
5825	83.21	PK	H	34.77	5.81	0.00	123.79	117.79	N/A	N/A
5825	71.59	AV	H	34.77	5.81	0.00	112.17	106.17	N/A	N/A
5825	85.41	PK	V	34.77	5.81	0.00	125.99	119.99	N/A	N/A
5825	74.38	AV	V	34.77	5.81	0.00	114.96	108.96	N/A	N/A
5850	33.39	PK	V	34.77	5.83	0.00	73.99	67.99	122.20	54.21
5855	33.08	PK	V	34.77	5.83	0.00	73.68	67.68	110.80	43.12
5875	31.47	PK	V	34.78	5.85	0.00	72.10	66.10	105.20	39.10
5925	30.53	PK	V	34.79	5.89	0.00	71.21	65.21	68.20	*2.99
11650	52.13	PK	V	38.93	8.20	25.98	73.28	67.28	74.00	6.72
11650	35.47	AV	V	38.93	8.20	25.98	56.62	50.62	54.00	*3.38
17475	44.21	PK	V	43.59	11.23	26.33	72.70	66.70	74.00	7.30
17475	27.43	AV	V	43.59	11.23	26.33	55.92	49.92	54.00	*4.08

For 802.11n-HT20 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5745 MHz										
5745	83.55	PK	H	34.75	5.74	0.00	124.04	118.04	N/A	N/A
5745	72.53	AV	H	34.75	5.74	0.00	113.02	107.02	N/A	N/A
5745	84.57	PK	V	34.75	5.74	0.00	125.06	119.06	N/A	N/A
5745	72.36	AV	V	34.75	5.74	0.00	112.85	106.85	N/A	N/A
5650	30.11	PK	V	34.73	5.65	0.00	70.49	64.49	68.20	*3.71
5700	30.07	PK	V	34.74	5.70	0.00	70.51	64.51	105.20	40.69
5720	38.72	PK	V	34.74	5.71	0.00	79.17	73.17	110.80	37.63
5725	38.68	PK	V	34.75	5.72	0.00	79.15	73.15	122.20	49.05
11490	43.43	PK	V	38.90	8.22	26.02	64.53	58.53	74.00	15.47
11490	28.38	AV	V	38.90	8.22	26.02	49.48	43.48	54.00	10.52
17235	37.19	PK	V	42.53	10.82	25.99	64.55	58.55	74.00	15.45
17235	18.10	AV	V	42.53	10.82	25.99	45.46	39.46	54.00	14.54
Frequency: 5785 MHz										
5785	82.87	PK	H	34.76	5.77	0.00	123.40	117.40	N/A	N/A
5785	71.72	AV	H	34.76	5.77	0.00	112.25	106.25	N/A	N/A
5785	84.70	PK	V	34.76	5.77	0.00	125.23	119.23	N/A	N/A
5785	72.62	AV	V	34.76	5.77	0.00	113.15	107.15	N/A	N/A
11570	47.40	PK	V	38.91	8.21	26.00	68.52	62.52	74.00	11.48
11570	31.79	AV	V	38.91	8.21	26.00	52.91	46.91	54.00	7.09
17355	40.56	PK	V	43.06	11.03	26.16	68.49	62.49	74.00	11.51
17355	22.62	AV	V	43.06	11.03	26.16	50.55	44.55	54.00	9.45
Frequency: 5825 MHz										
5825	82.21	PK	H	34.77	5.81	0.00	122.79	116.79	N/A	N/A
5825	71.08	AV	H	34.77	5.81	0.00	111.66	105.66	N/A	N/A
5825	85.18	PK	V	34.77	5.81	0.00	125.76	119.76	N/A	N/A
5825	73.17	AV	V	34.77	5.81	0.00	113.75	107.75	N/A	N/A
5850	37.42	PK	V	34.77	5.83	0.00	78.02	72.02	122.20	50.18
5855	34.07	PK	V	34.77	5.83	0.00	74.67	68.67	110.80	42.13
5875	31.12	PK	V	34.78	5.85	0.00	71.75	65.75	105.20	39.45
5925	30.73	PK	V	34.79	5.89	0.00	71.41	65.41	68.20	*2.79
11650	51.78	PK	V	38.93	8.20	25.98	72.93	66.93	74.00	7.07
11650	35.38	AV	V	38.93	8.20	25.98	56.53	50.53	54.00	*3.47
17475	44.18	PK	V	43.59	11.23	26.33	72.67	66.67	74.00	7.33
17475	27.22	AV	V	43.59	11.23	26.33	55.71	49.71	54.00	*4.29

For 802.11n-HT40 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5755 MHz										
5755	81.88	PK	H	34.75	5.74	0.00	122.37	116.37	N/A	N/A
5755	70.05	AV	H	34.75	5.74	0.00	110.54	104.54	N/A	N/A
5755	83.85	PK	V	34.75	5.74	0.00	124.34	118.34	N/A	N/A
5755	71.71	AV	V	34.75	5.74	0.00	112.20	106.20	N/A	N/A
5650	29.07	PK	V	34.73	5.65	0.00	69.45	63.45	68.20	*4.75
5700	32.81	PK	V	34.74	5.70	0.00	73.25	67.25	105.20	37.95
5720	42.64	PK	V	34.74	5.71	0.00	83.09	77.09	110.80	33.71
5725	44.07	PK	V	34.75	5.72	0.00	84.54	78.54	122.20	43.66
11510	41.37	PK	V	38.90	8.22	26.02	62.47	56.47	74.00	17.53
11510	27.17	AV	V	38.90	8.22	26.02	48.27	42.27	54.00	11.73
17265	35.25	PK	V	42.67	10.88	26.04	62.76	56.76	74.00	17.24
17265	18.11	AV	V	42.67	10.88	26.04	45.62	39.62	54.00	14.38
Frequency: 5795 MHz										
5795	82.62	PK	H	34.76	5.78	0.00	123.16	117.16	N/A	N/A
5795	69.91	AV	H	34.76	5.78	0.00	110.45	104.45	N/A	N/A
5795	85.48	PK	V	34.76	5.78	0.00	126.02	120.02	N/A	N/A
5795	73.83	AV	V	34.76	5.78	0.00	114.37	108.37	N/A	N/A
5850	31.49	PK	V	34.77	5.83	0.00	72.09	66.09	122.20	56.11
5855	31.17	PK	V	34.77	5.83	0.00	71.77	65.77	110.80	45.03
5875	30.98	PK	V	34.78	5.85	0.00	71.61	65.61	105.20	39.59
5925	29.11	PK	V	34.79	5.89	0.00	69.79	63.79	68.20	*4.41
11590	49.79	PK	V	38.92	8.21	25.99	70.93	64.93	74.00	9.07
11590	35.57	AV	V	38.92	8.21	25.99	56.71	50.71	54.00	*3.29
17385	43.95	PK	V	43.19	11.08	26.21	72.01	66.01	74.00	7.99
17385	28.54	AV	V	43.19	11.08	26.21	56.60	50.60	54.00	*3.40

For 802.11ac20 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5745 MHz										
5745	81.68	PK	H	34.75	5.74	0.00	122.17	116.17	N/A	N/A
5745	68.84	AV	H	34.75	5.74	0.00	109.33	103.33	N/A	N/A
5745	83.95	PK	V	34.75	5.74	0.00	124.44	118.44	N/A	N/A
5745	72.71	AV	V	34.75	5.74	0.00	113.20	107.20	N/A	N/A
5650	29.47	PK	V	34.73	5.65	0.00	69.85	63.85	68.20	*4.35
5700	30.62	PK	V	34.74	5.70	0.00	71.06	65.06	105.20	40.14
5720	39.14	PK	V	34.74	5.71	0.00	79.59	73.59	110.80	37.21
5725	38.31	PK	V	34.75	5.72	0.00	78.78	72.78	122.20	49.42
11490	43.47	PK	V	38.90	8.22	26.02	64.57	58.57	74.00	15.43
11490	28.58	AV	V	38.90	8.22	26.02	49.68	43.68	54.00	10.32
17235	37.33	PK	V	42.53	10.82	25.99	64.69	58.69	74.00	15.31
17235	18.10	AV	V	42.53	10.82	25.99	45.46	39.46	54.00	14.54
Frequency: 5785 MHz										
5785	81.66	PK	H	34.76	5.77	0.00	122.19	116.19	N/A	N/A
5785	69.34	AV	H	34.76	5.77	0.00	109.87	103.87	N/A	N/A
5785	84.26	PK	V	34.76	5.77	0.00	124.79	118.79	N/A	N/A
5785	72.55	AV	V	34.76	5.77	0.00	113.08	107.08	N/A	N/A
11570	47.68	PK	V	38.91	8.21	26.00	68.80	62.80	74.00	11.20
11570	31.81	AV	V	38.91	8.21	26.00	52.93	46.93	54.00	7.07
17355	40.53	PK	V	43.06	11.03	26.16	68.46	62.46	74.00	11.54
17355	22.62	AV	V	43.06	11.03	26.16	50.55	44.55	54.00	9.45
Frequency: 5825 MHz										
5825	81.98	PK	H	34.77	5.81	0.00	122.56	116.56	N/A	N/A
5825	70.12	AV	H	34.77	5.81	0.00	110.70	104.70	N/A	N/A
5825	84.85	PK	V	34.77	5.81	0.00	125.43	119.43	N/A	N/A
5825	72.56	AV	V	34.77	5.81	0.00	113.14	107.14	N/A	N/A
5850	35.19	PK	V	34.77	5.83	0.00	75.79	69.79	122.20	52.41
5855	34.82	PK	V	34.77	5.83	0.00	75.42	69.42	110.80	41.38
5875	31.21	PK	V	34.78	5.85	0.00	71.84	65.84	105.20	39.36
5925	31.42	PK	V	34.79	5.89	0.00	72.10	66.10	68.20	*2.10
11650	51.92	PK	V	38.93	8.20	25.98	73.07	67.07	74.00	6.93
11650	35.17	AV	V	38.93	8.20	25.98	56.32	50.32	54.00	*3.68
17475	43.89	PK	V	43.59	11.23	26.33	72.38	66.38	74.00	7.62
17475	27.19	AV	V	43.59	11.23	26.33	55.68	49.68	54.00	*4.32

For 802.11ac40 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/A V)	Polar (H/V)	Factor (dB)						
Frequency: 5755 MHz										
5755	82.26	PK	H	34.75	5.74	0.00	122.75	116.75	N/A	N/A
5755	68.82	AV	H	34.75	5.74	0.00	109.31	103.31	N/A	N/A
5755	84.11	PK	V	34.75	5.74	0.00	124.60	118.60	N/A	N/A
5755	70.62	AV	V	34.75	5.74	0.00	111.11	105.11	N/A	N/A
5650	30.16	PK	V	34.73	5.65	0.00	70.54	64.54	68.20	*3.66
5700	33.92	PK	V	34.74	5.70	0.00	74.36	68.36	105.20	36.84
5720	43.13	PK	V	34.74	5.71	0.00	83.58	77.58	110.80	33.22
5725	44.95	PK	V	34.75	5.72	0.00	85.42	79.42	122.20	42.78
11510	41.69	PK	V	38.90	8.22	26.02	62.79	56.79	74.00	17.21
11510	27.62	AV	V	38.90	8.22	26.02	48.72	42.72	54.00	11.28
17265	35.73	PK	V	42.67	10.88	26.04	63.24	57.24	74.00	16.76
17265	18.25	AV	V	42.67	10.88	26.04	45.76	39.76	54.00	14.24
Frequency: 5795 MHz										
5795	83.33	PK	H	34.76	5.78	0.00	123.87	117.87	N/A	N/A
5795	72.76	AV	H	34.76	5.78	0.00	113.30	107.30	N/A	N/A
5795	85.43	PK	V	34.76	5.78	0.00	125.97	119.97	N/A	N/A
5795	72.74	AV	V	34.76	5.78	0.00	113.28	107.28	N/A	N/A
5850	30.82	PK	V	34.77	5.83	0.00	71.42	65.42	122.20	56.78
5855	30.73	PK	V	34.77	5.83	0.00	71.33	65.33	110.80	45.47
5875	30.89	PK	V	34.78	5.85	0.00	71.52	65.52	105.20	39.68
5925	30.33	PK	V	34.79	5.89	0.00	71.01	65.01	68.20	*3.19
11590	50.21	PK	V	38.92	8.21	25.99	71.35	65.35	74.00	8.65
11590	35.87	AV	V	38.92	8.21	25.99	57.01	51.01	54.00	*2.99
17385	44.07	PK	V	43.19	11.08	26.21	72.13	66.13	74.00	7.87
17385	28.63	AV	V	43.19	11.08	26.21	56.69	50.69	54.00	*3.31

For 802.11ac80 mode

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Frequency: 5775 MHz										
5775	77.52	PK	H	34.76	5.76	0.00	118.04	112.04	N/A	N/A
5775	65.53	AV	H	34.76	5.76	0.00	106.05	100.05	N/A	N/A
5775	78.99	PK	V	34.76	5.76	0.00	119.51	113.51	N/A	N/A
5775	66.65	AV	V	34.76	5.76	0.00	107.17	101.17	N/A	N/A
5650	31.38	PK	V	34.73	5.65	0.00	71.76	65.76	68.20	*2.44
5700	39.15	PK	V	34.74	5.70	0.00	79.59	73.59	105.20	31.61
5720	40.98	PK	V	34.74	5.71	0.00	81.43	75.43	110.80	35.37
5725	44.84	PK	V	34.75	5.72	0.00	85.31	79.31	122.20	42.89
5850	38.28	PK	V	34.77	5.83	0.00	78.88	72.88	122.20	49.32
5855	36.21	PK	V	34.77	5.83	0.00	76.81	70.81	110.80	39.99
5875	33.54	PK	V	34.78	5.85	0.00	74.17	68.17	105.20	37.03
5925	31.45	PK	V	34.79	5.89	0.00	72.13	66.13	68.20	*2.07
11550	45.32	PK	V	38.91	8.21	26.01	66.43	60.43	74.00	13.57
11550	29.46	AV	V	38.91	8.21	26.01	50.57	44.57	54.00	9.43
17325	36.17	PK	V	42.93	10.98	26.12	63.96	57.96	74.00	16.04
17325	18.65	AV	V	42.93	10.98	26.12	46.44	40.44	54.00	13.56

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

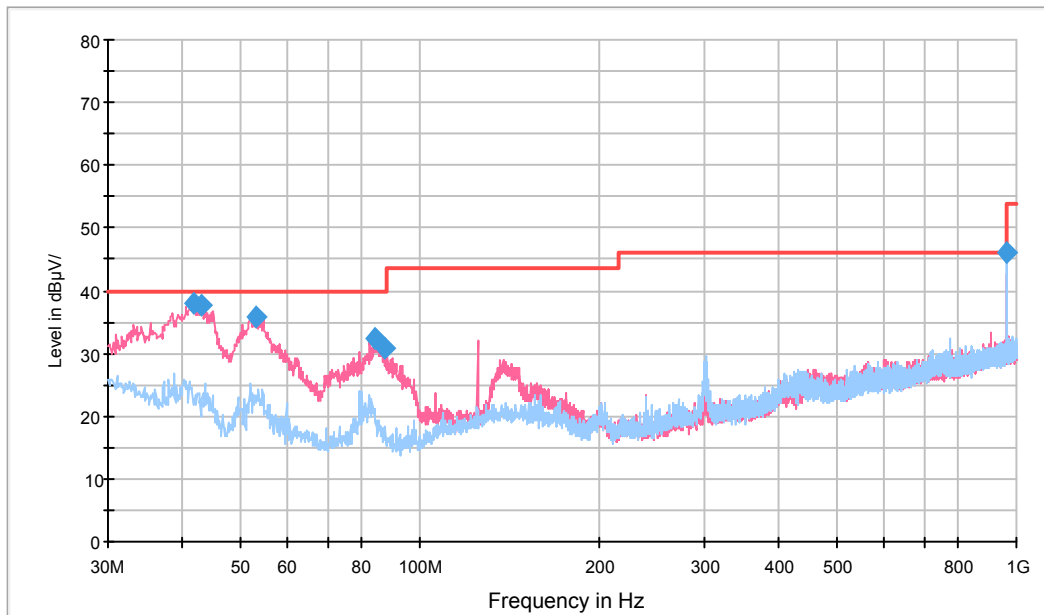
Margin = Limit- Corr. Amplitude

Spurious emissions more than 20 dB below the limit were not reported.

Adapter Mode

For co-location evaluation data (2.4 GHz, 802.11b 2412 MHz & 5 GHz, 802.11a 5180 MHz work simultaneously)

30 MHz to 1 GHz



Frequency (MHz)	QuasicPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
41.882500	38.1	100.0	V	135.0	-8.3	1.9	40.0
42.973750	37.8	100.0	V	126.0	-9.0	2.2	40.0
53.037500	35.9	150.0	V	307.0	-13.2	4.1	40.0
84.077500	32.5	100.0	V	254.0	-13.0	7.5	40.0
87.230000	30.7	170.0	V	272.0	-13.2	9.3	40.0
960.108750	46.1	100.0	H	349.0	4.4	7.8	53.9

Above 1 GHz

For co-location evaluation data (2.4 GHz, 802.11b 2412 MHz & 5 GHz, 802.11a 5180 MHz work simultaneously)

Worst Case

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Detector	Polar	Factor					
MHz	dBμV	PK/QP/AV	H/V	dB(1/m)	dB	dB	dBμV/m	dBμV/m	dB
1368	58.85	PK	V	24.68	2.49	26.46	59.56	74.00	14.44
1368	35.22	AV	V	24.68	2.49	26.46	35.93	54.00	18.07
1775	51.70	PK	V	26.38	2.88	26.60	54.36	74.00	19.64
1775	32.57	AV	V	26.38	2.88	26.60	35.23	54.00	18.77
2135	46.78	PK	V	27.91	3.03	26.84	50.88	74.00	23.12
2135	33.62	AV	V	27.91	3.03	26.84	37.72	54.00	16.28
1368	57.92	PK	H	24.68	2.49	26.46	58.63	74.00	15.37
1368	36.94	AV	H	24.68	2.49	26.46	37.65	54.00	16.35
1845	47.34	PK	H	26.73	2.93	26.67	50.33	74.00	23.67
1845	26.77	AV	H	26.73	2.93	26.67	29.76	54.00	24.24
2231	45.22	PK	H	28.19	3.02	26.85	49.58	74.00	24.42
2231	30.42	AV	H	28.19	3.02	26.85	34.78	54.00	19.22

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

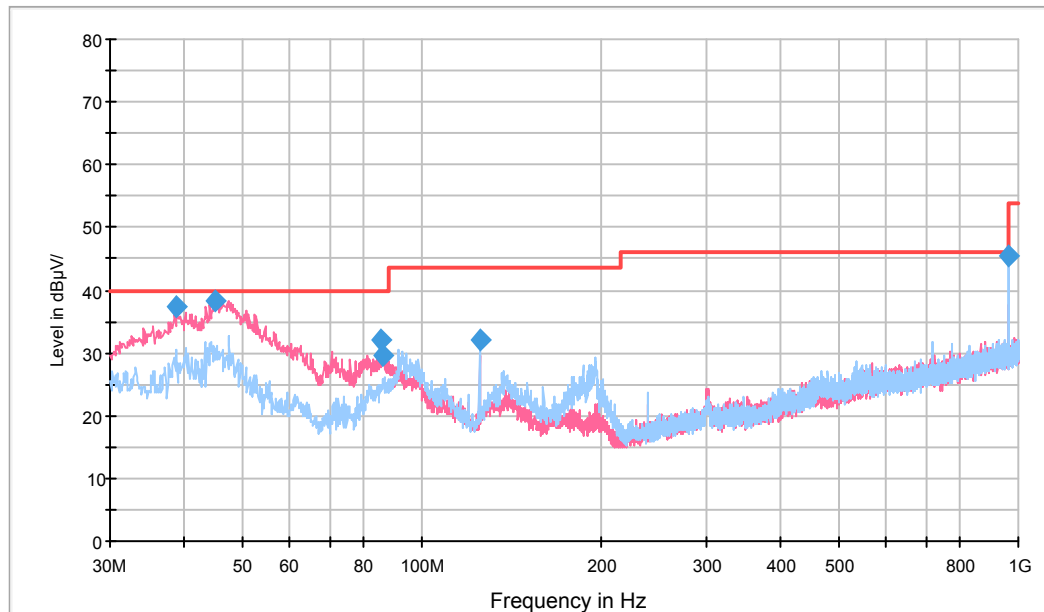
Margin = Limit- Corr. Amplitude

Spurious emissions more than 20 dB below the limit were not reported.

POE Mode

For co-location evaluation data (2.4 GHz, 802.11b 2412 MHz & 5 GHz, 802.11a 5180 MHz work simultaneously)

30 MHz to 1 GHz



Frequency (MHz)	MaxPeak-MaxHold (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
38.851250	37.4	100.0	V	343.0	-6.6	2.6	40.0
45.035000	38.2	110.0	V	343.0	-10.2	1.8	40.0
85.168750	32.0	200.0	V	200.0	-13.1	8.0	40.0
86.017500	29.5	150.0	V	226.0	-13.1	10.5	40.0
124.938750	32.1	200.0	H	270.0	-7.1	11.4	43.5
960.108750	45.3	100.0	H	234.0	4.4	8.6	53.9

Above 1 GHz

For co-location evaluation data (2.4 GHz, 802.11b 2412 MHz & 5 GHz, 802.11a 5180 MHz work simultaneously)

Worst Case

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Detector	Polar	Factor					
MHz	dBμV	PK/QP/AV	H/V	dB(1/m)	dB	dB	dBμV/m	dBμV/m	dB
1368	61.29	PK	V	24.68	2.49	26.46	62.00	74.00	12.00
1368	38.09	AV	V	24.68	2.49	26.46	38.80	54.00	15.20
1697	51.72	PK	V	25.99	2.82	26.52	54.01	74.00	19.99
1697	34.66	AV	V	25.99	2.82	26.52	36.95	54.00	17.05
2135	49.20	PK	V	27.91	3.03	26.84	53.30	74.00	20.70
2135	34.78	AV	V	27.91	3.03	26.84	38.88	54.00	15.12
1368	60.45	PK	H	24.68	2.49	26.46	61.16	74.00	12.84
1368	39.06	AV	H	24.68	2.49	26.46	39.77	54.00	14.23
1845	49.13	PK	H	26.73	2.93	26.67	52.12	74.00	21.88
1845	28.56	AV	H	26.73	2.93	26.67	31.55	54.00	22.45
2079	47.68	PK	H	27.74	3.04	26.83	51.63	74.00	22.37
2079	30.47	AV	H	27.74	3.04	26.83	34.42	54.00	19.58

Note:

Corrected Amplitude = Corrected Factor + Reading

Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

Spurious emissions more than 20 dB below the limit were not reported.

FCC §15.407(b) (1), (2), (3), (4) (i) – BAND EDGE

Applicable Standard

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibration or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 1 MHz and VBW to 3 MHz of spectrum analyzer. Offset the antenna gain and cable loss.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Data

Environmental Conditions

Temperature:	29 ~ 30 °C
Relative Humidity:	50 ~54 %
ATM Pressure:	94.5 ~ 94.8 kPa

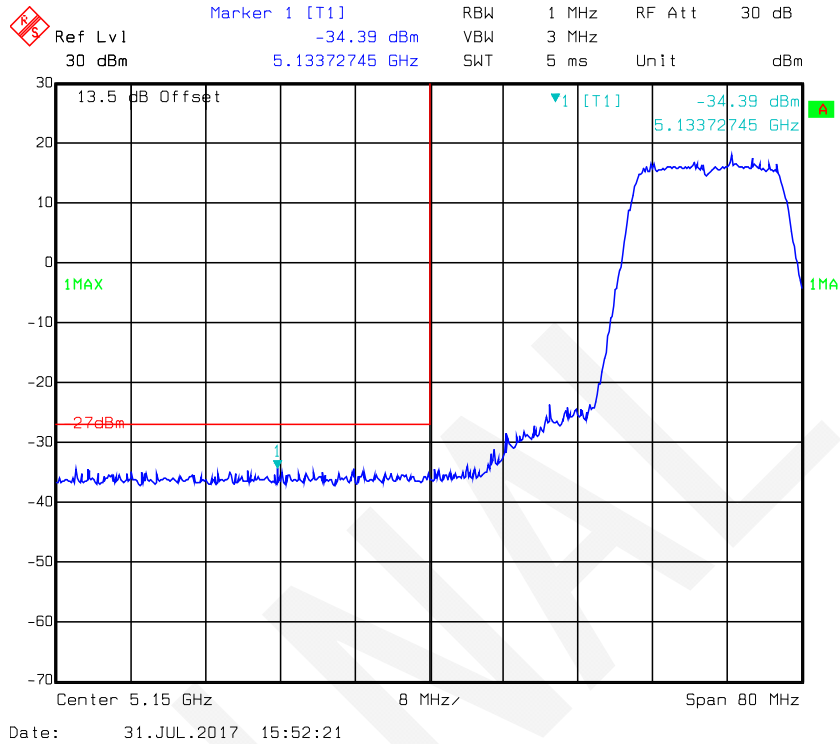
* The testing was performed by Tom Tang on 2017-07-31 to 2017-08-03.

Test mode: Transmitting

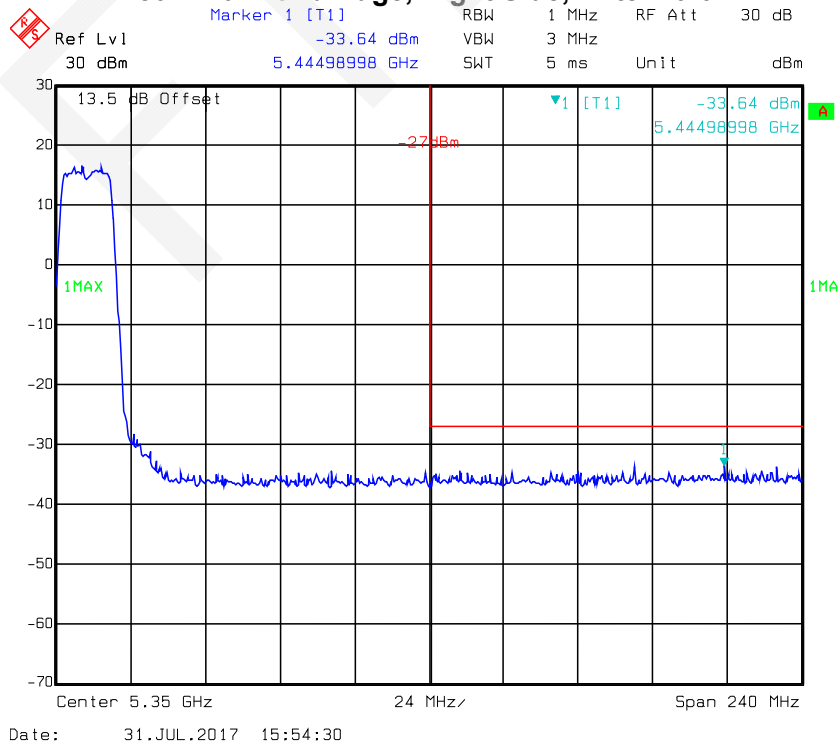
Test Result: Compliance. Please refer to following plots.

For 5150-5250 MHz:

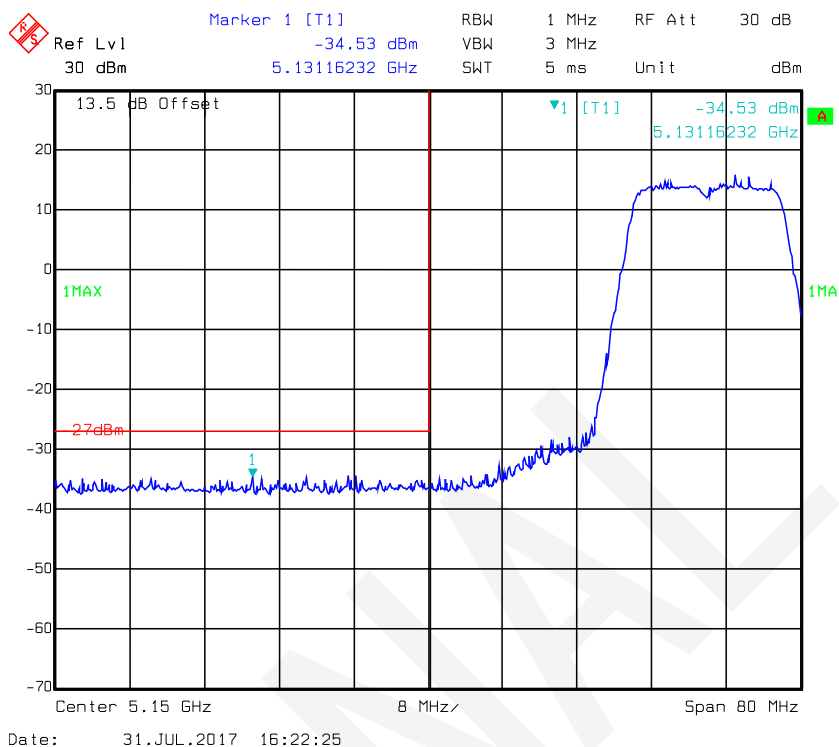
802.11a: Band Edge, Left Side, Antenna 0



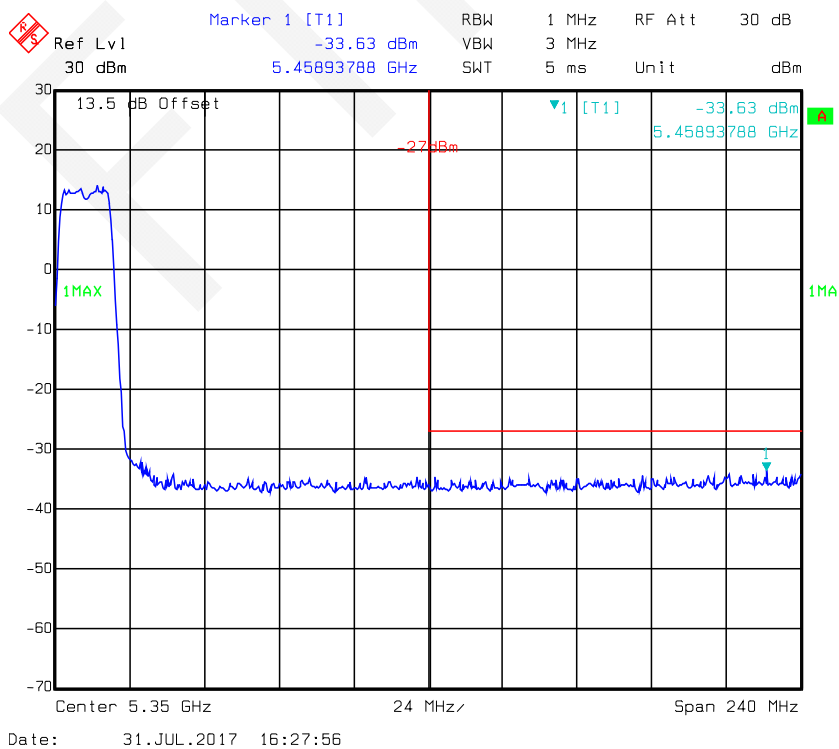
802.11a: Band Edge, Right Side, Antenna 0



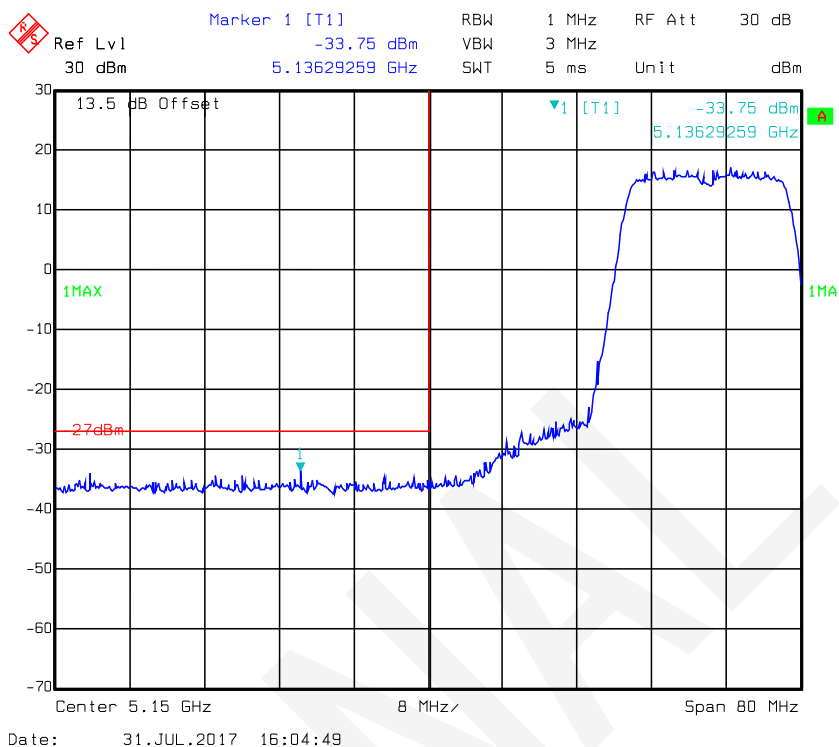
802.11a: Band Edge, Left Side, Antenna 1



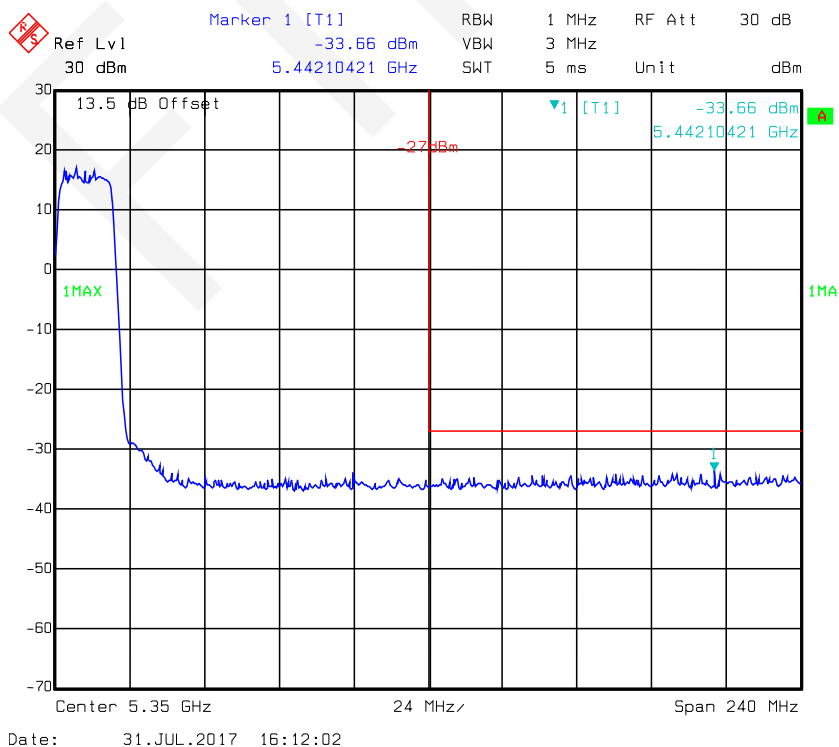
802.11a: Band Edge, Right Side, Antenna 1



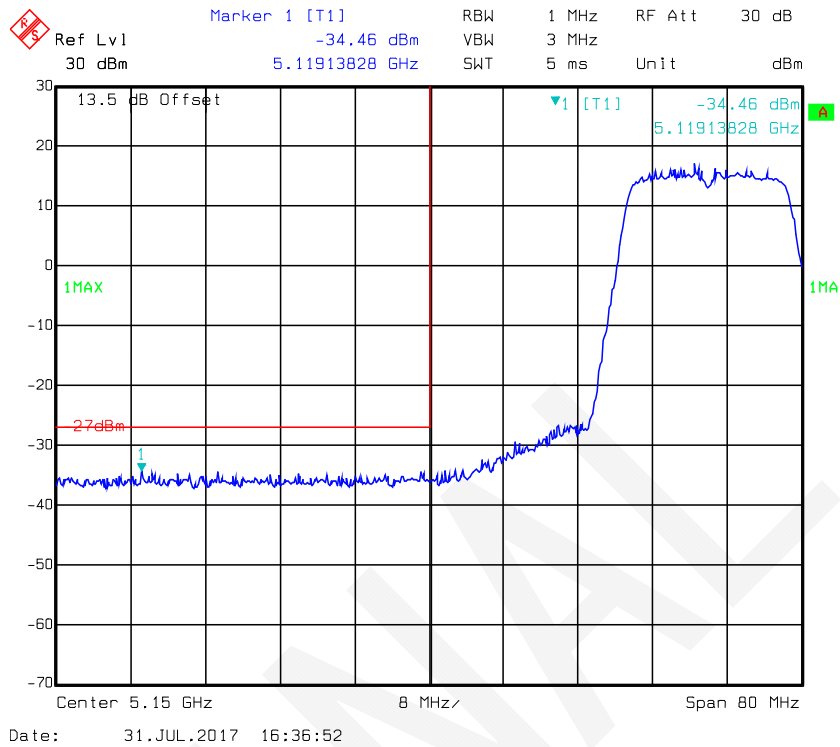
802.11n-HT20: Band Edge, Left Side, Antenna 0



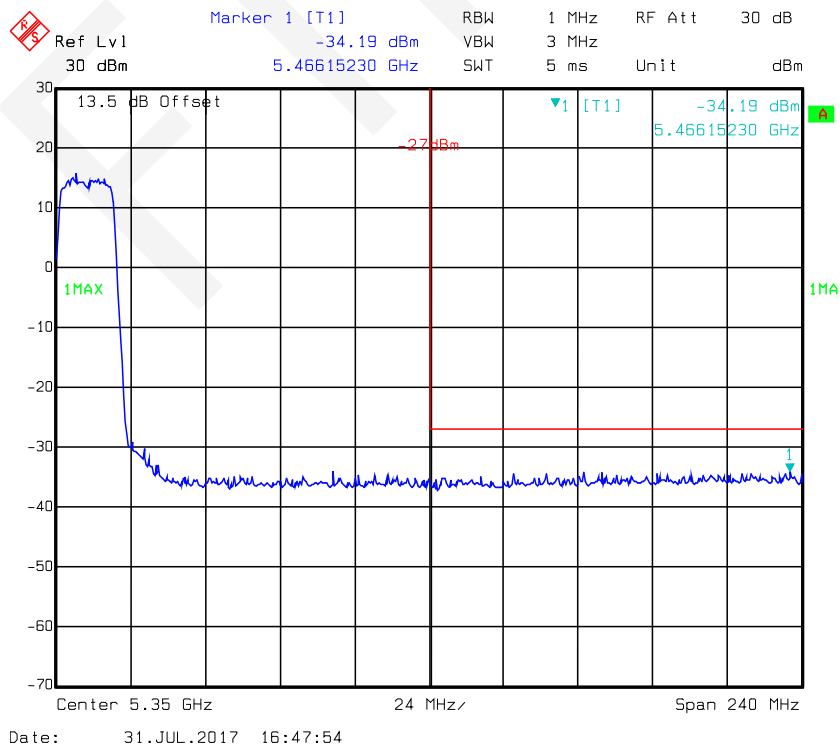
802.11n-HT20: Band Edge, Right Side, Antenna 0



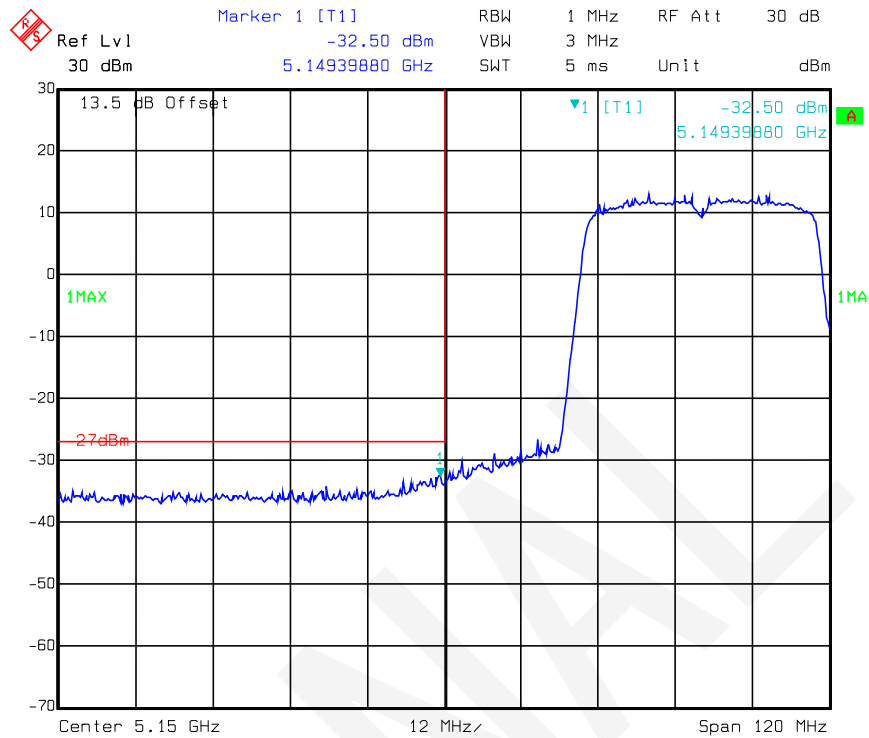
802.11n-HT20: Band Edge, Left Side, Antenna 1



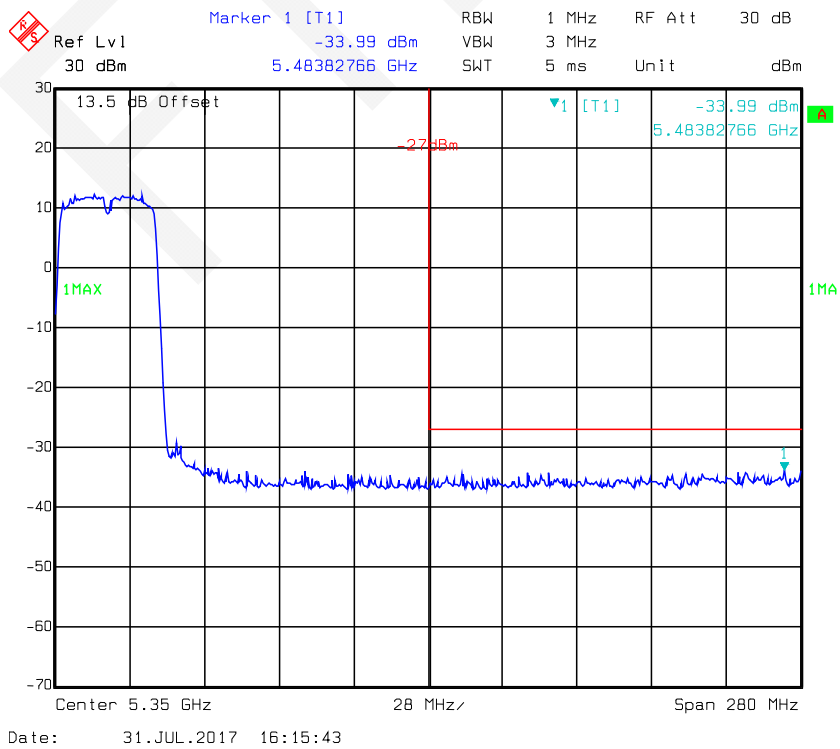
802.11n-HT20: Band Edge, Right Side, Antenna 1



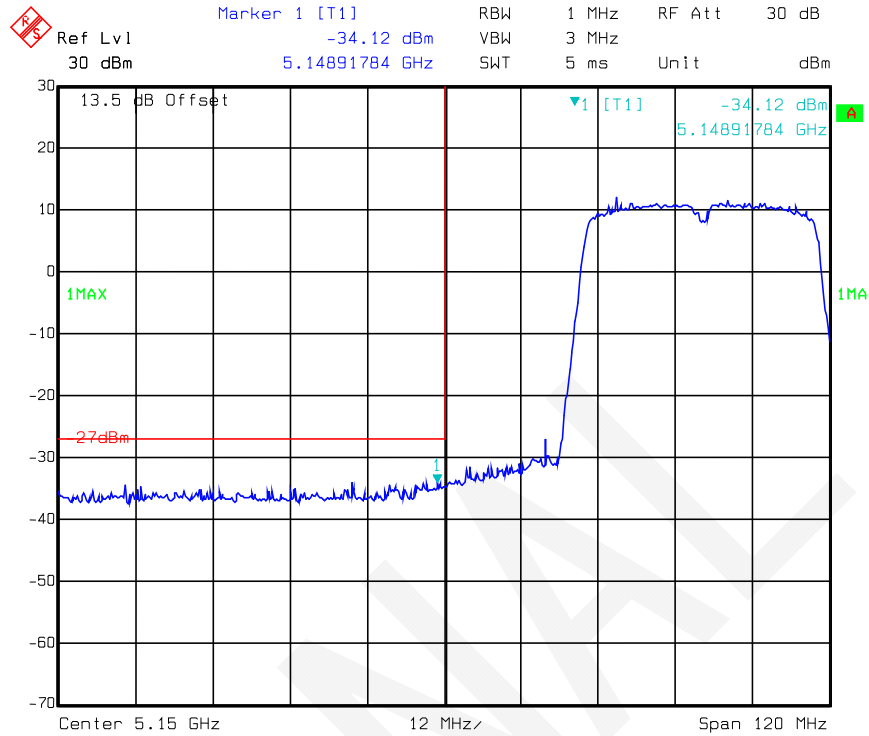
802.11n-HT40: Band Edge, Left Side, Antenna 0



802.11n-HT40: Band Edge, Right Side, Antenna 0

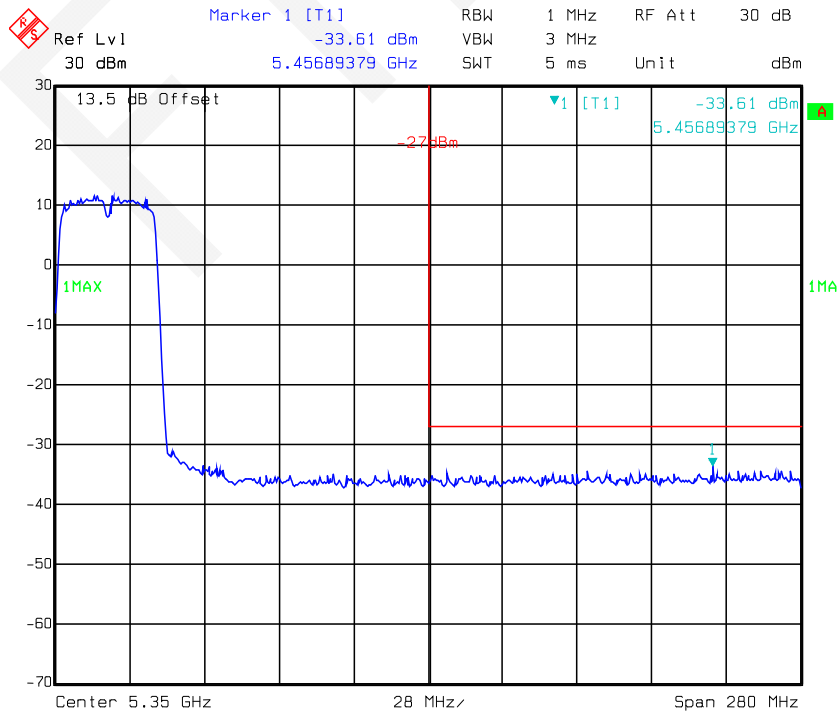


802.11n-HT40: Band Edge, Left Side, Antenna 1



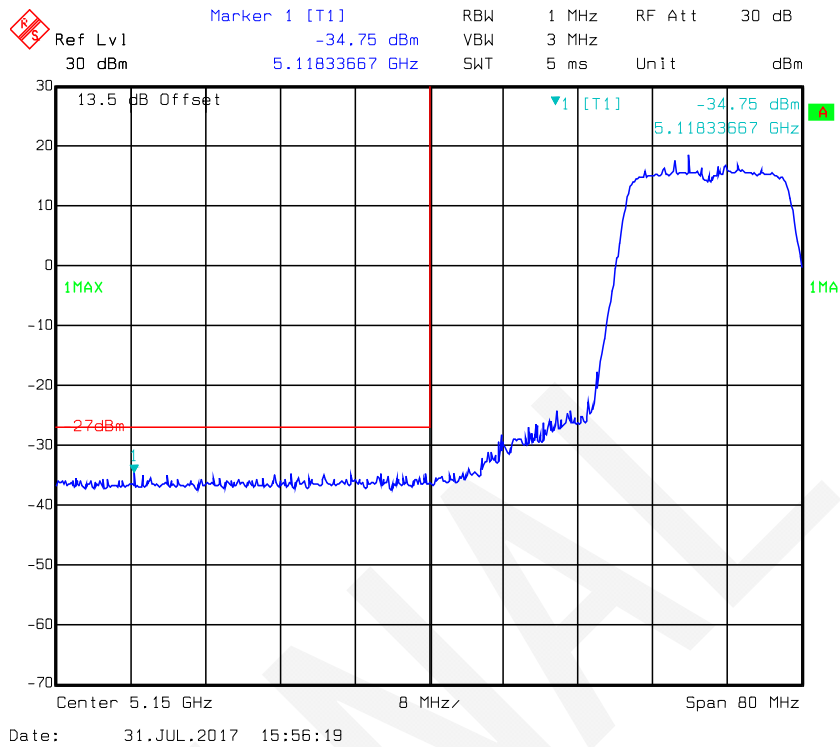
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802.11n-HT40: Band Edge, Right Side, Antenna 1

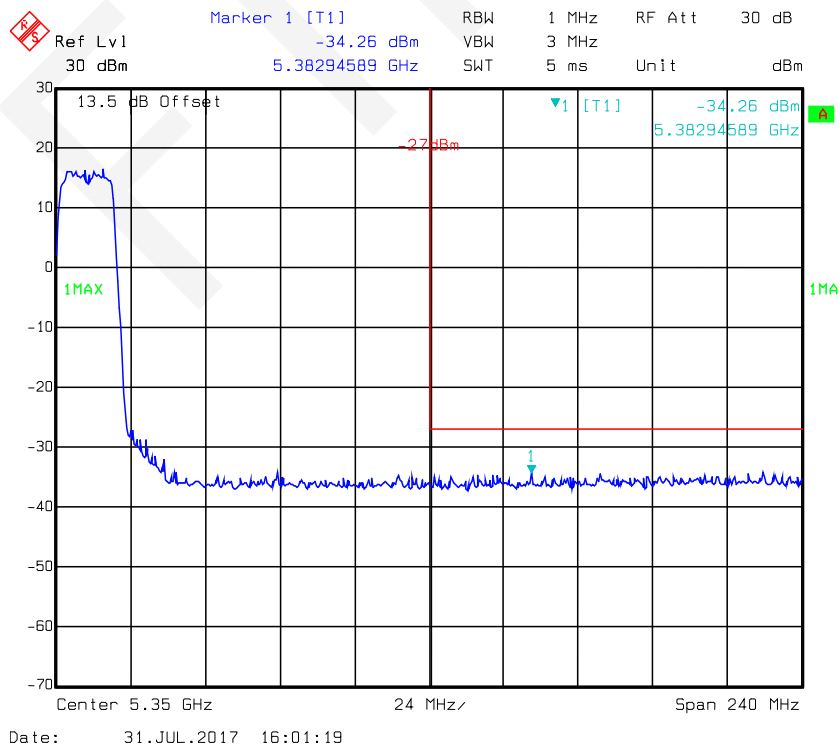


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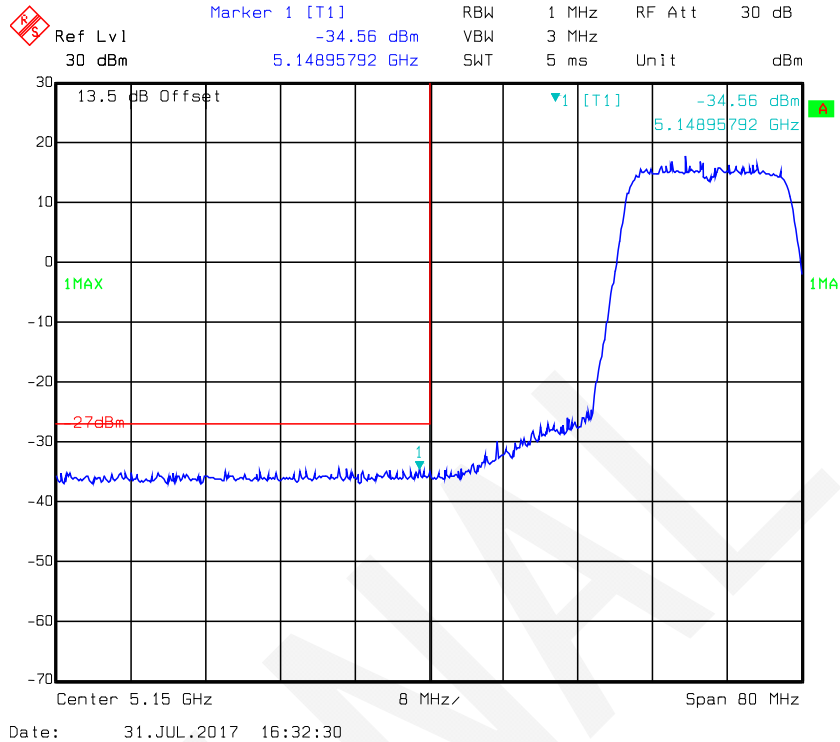
802.11ac20: Band Edge, Left Side, Antenna 0



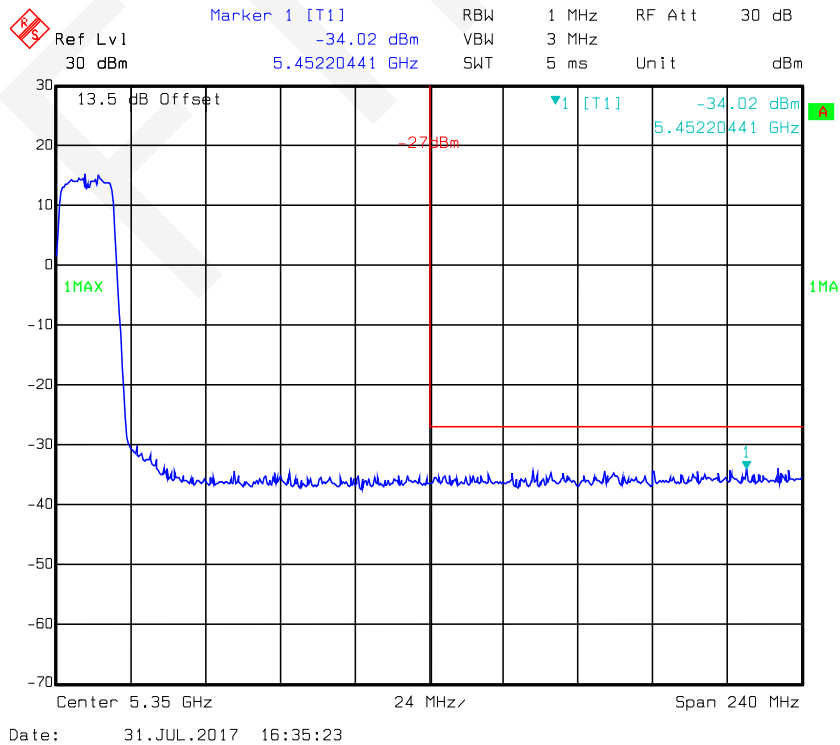
802.11ac20: Band Edge, Right Side, Antenna 0



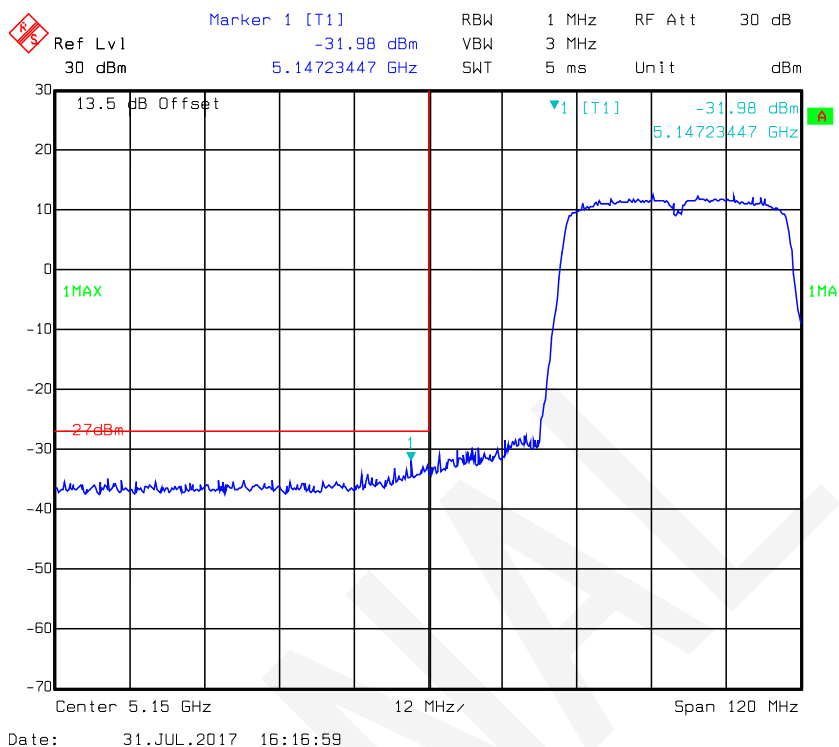
802.11ac20: Band Edge, Left Side, Antenna 1



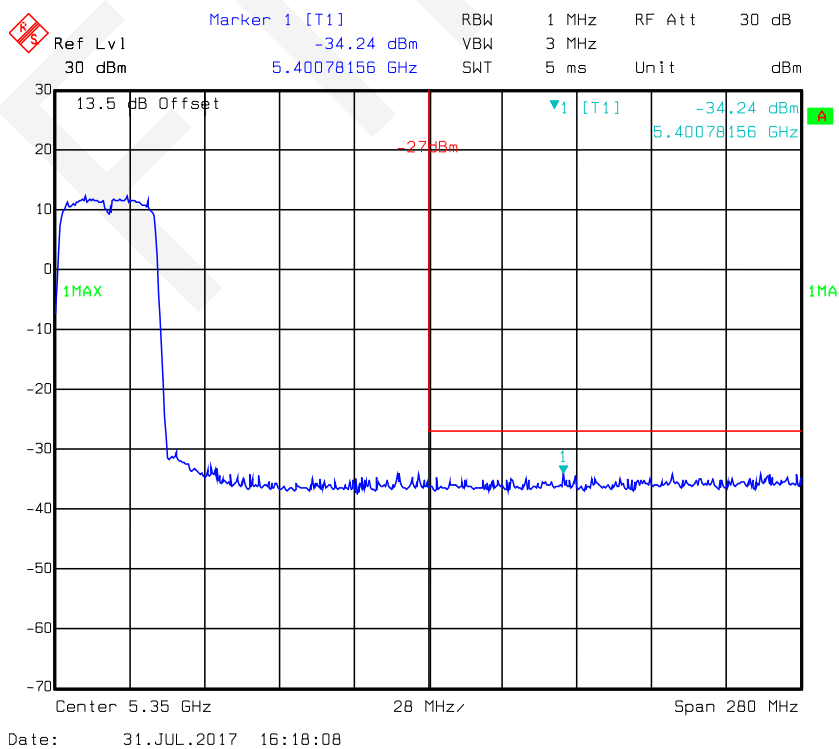
802.11ac20: Band Edge, Right Side, Antenna 1



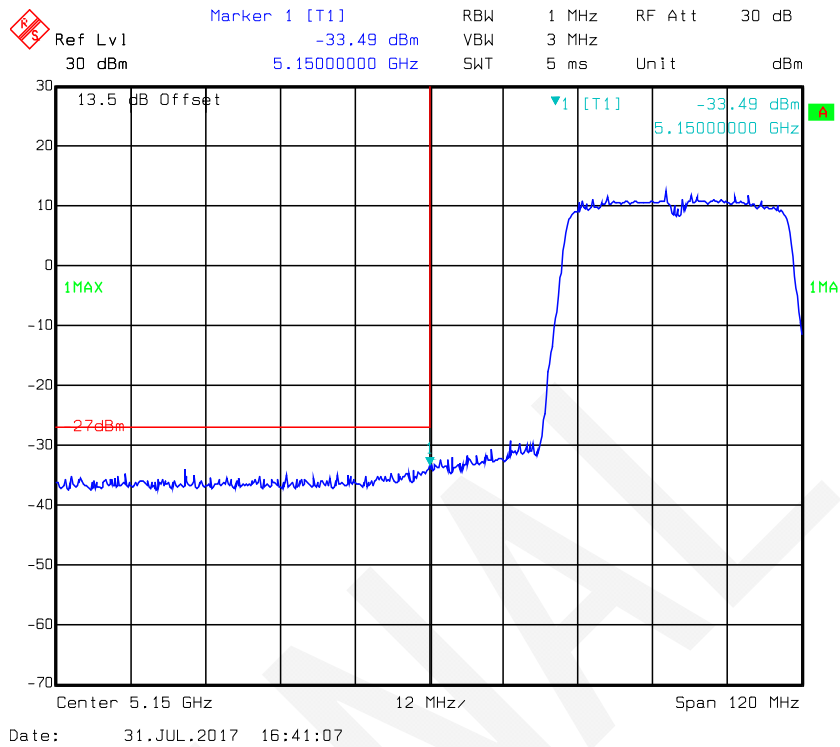
802.11ac40: Band Edge, Left Side, Antenna 0



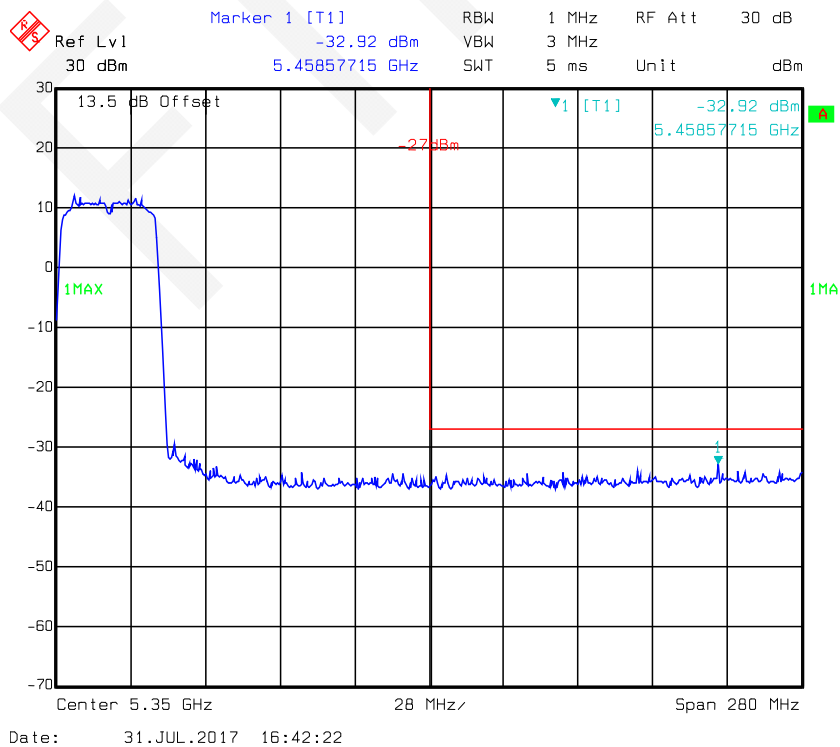
802.11ac40: Band Edge, Right Side, Antenna 0



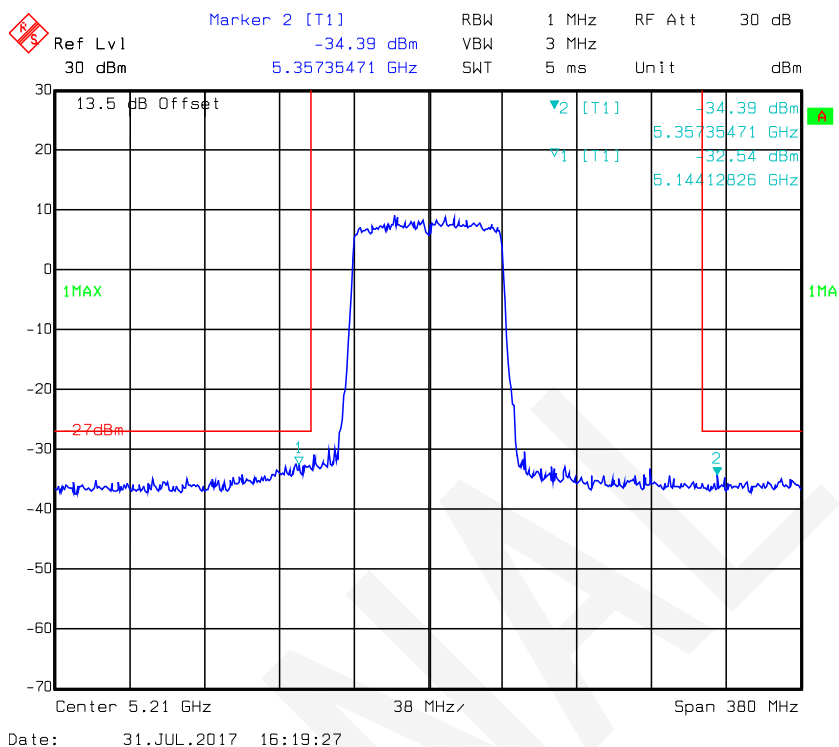
802.11ac40: Band Edge, Left Side, Antenna 1



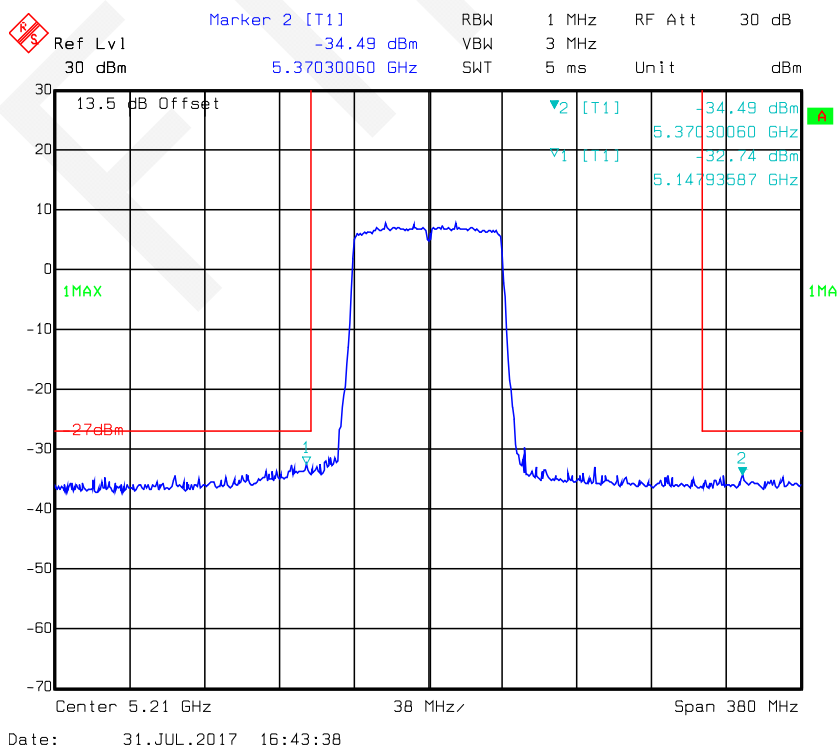
802.11ac40: Band Edge, Right Side, Antenna 1



802.11ac80: Band Edge, Antenna 0

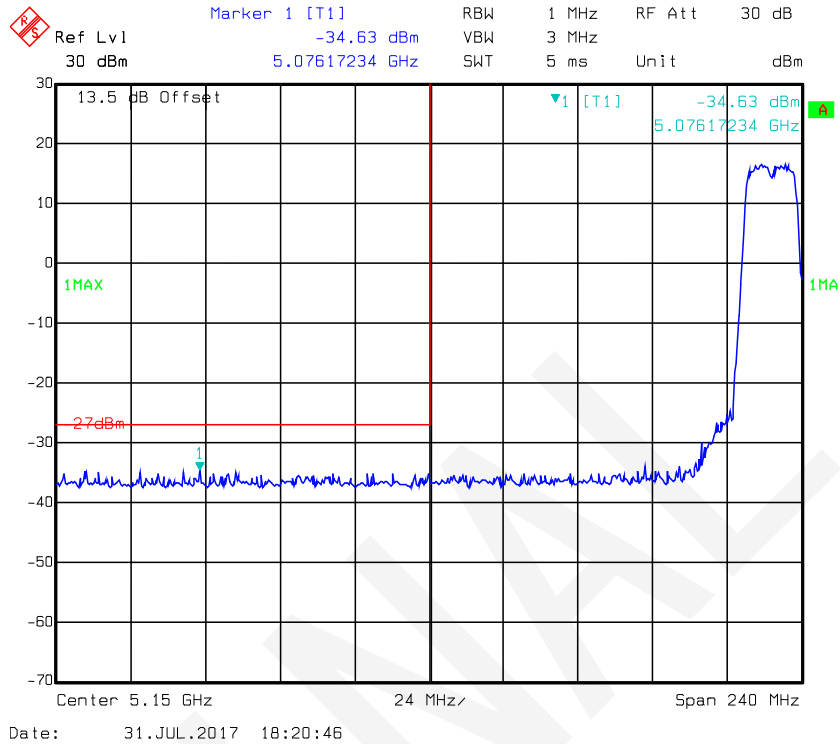


802.11ac80: Band Edge, Antenna 1

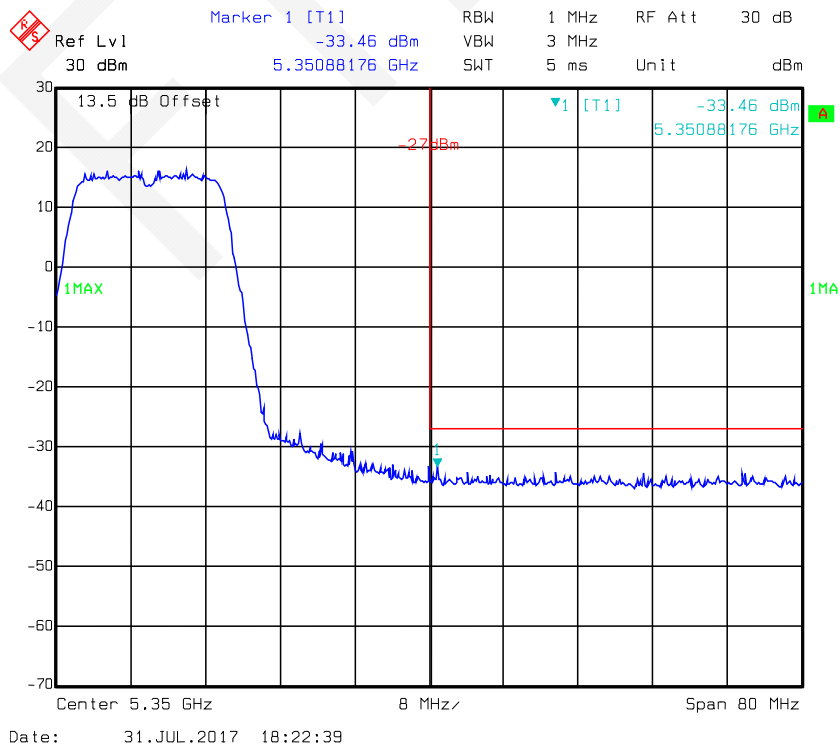


For 5250-5350 MHz:

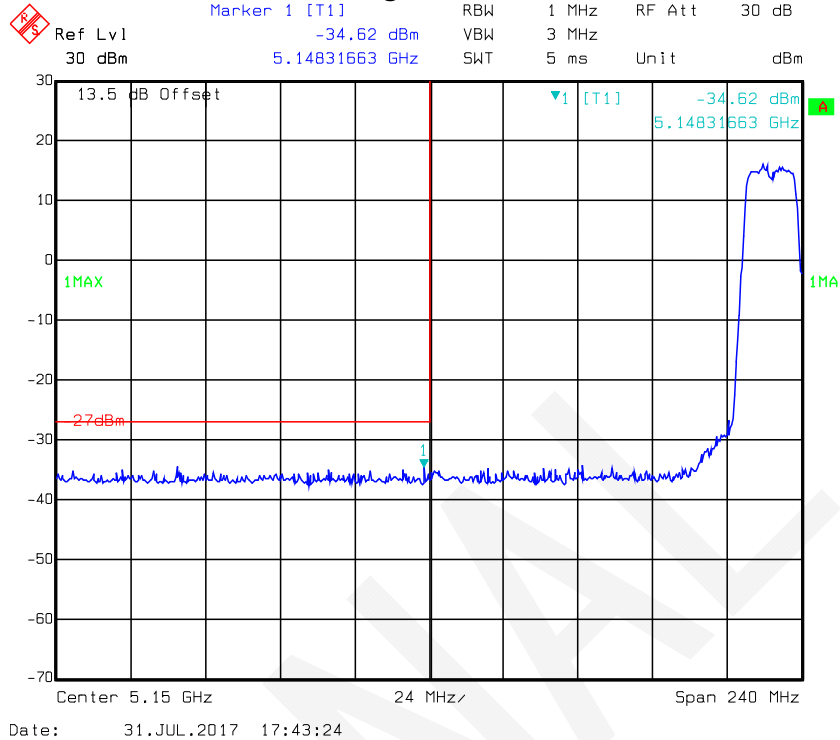
802.11a: Band Edge, Left Side, Antenna 0



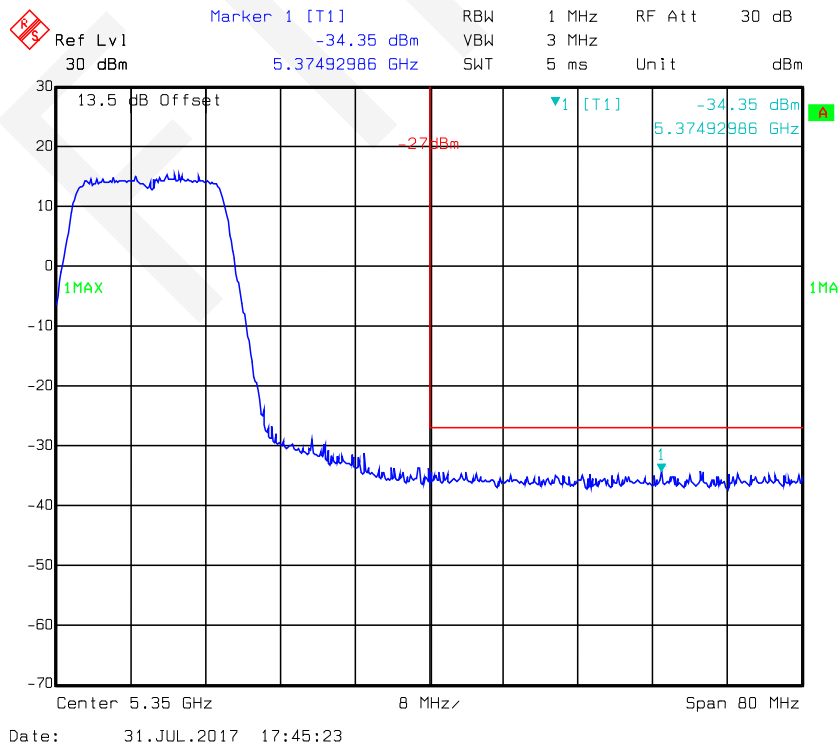
802.11a: Band Edge, Right Side, Antenna 0



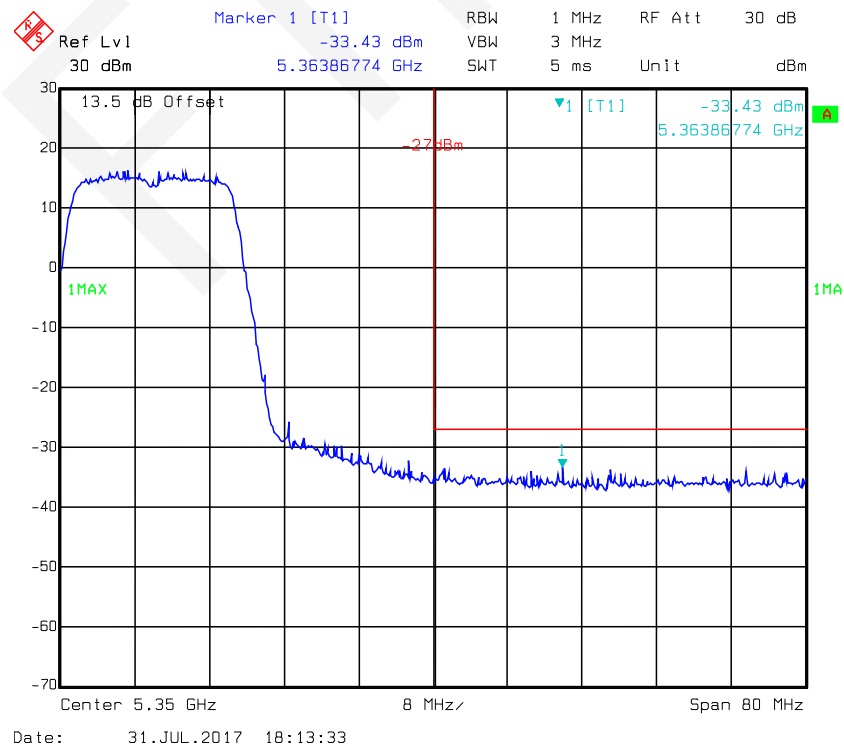
802.11a: Band Edge, Left Side, Antenna 1



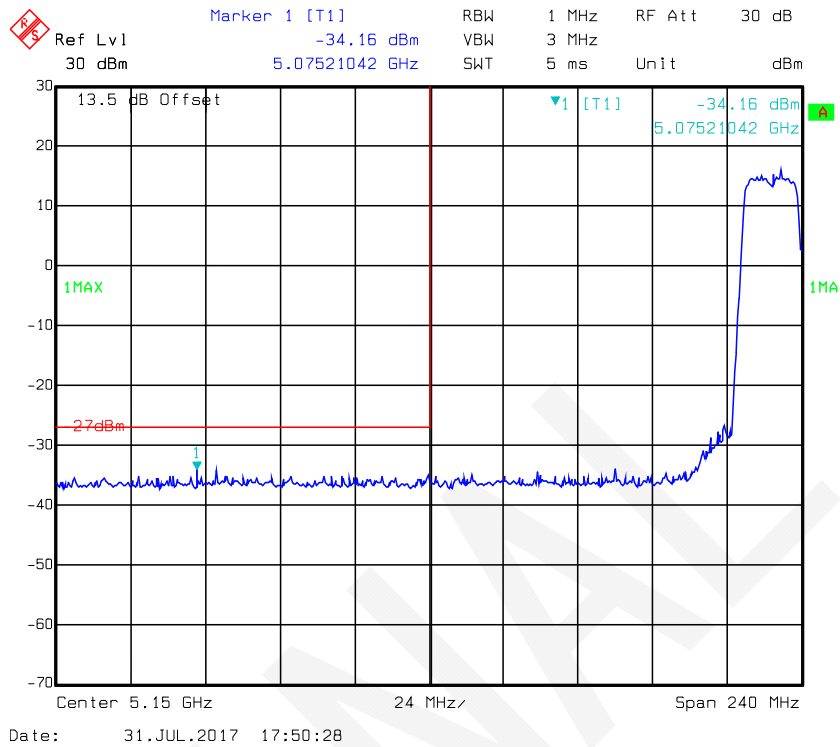
802.11a: Band Edge, Right Side, Antenna 1



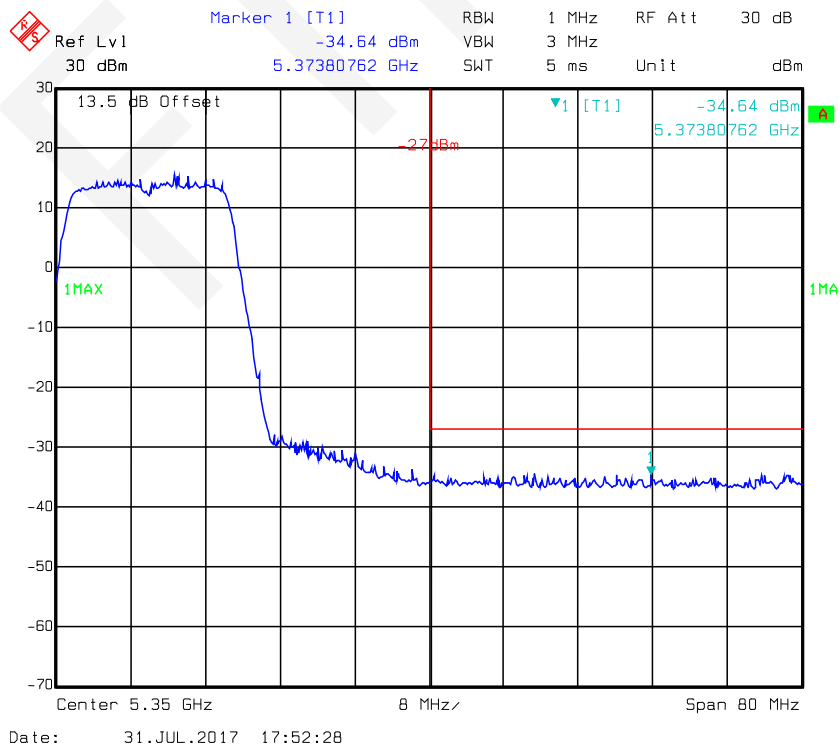
Page 72 of 320



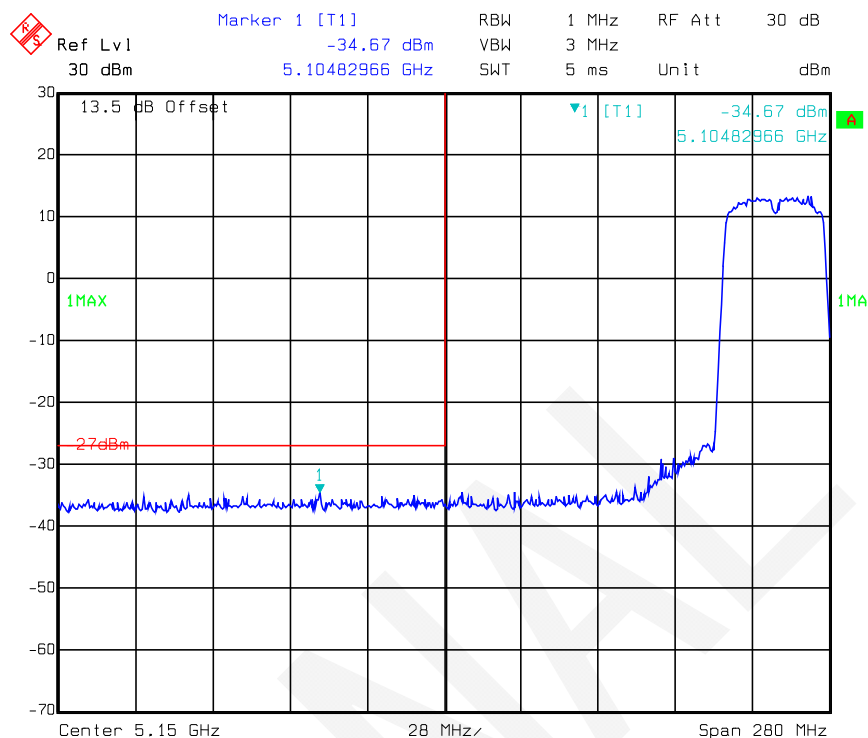
802.11n-HT20: Band Edge, Left Side, Antenna 1



802.11n-HT20: Band Edge, Right Side, Antenna 1

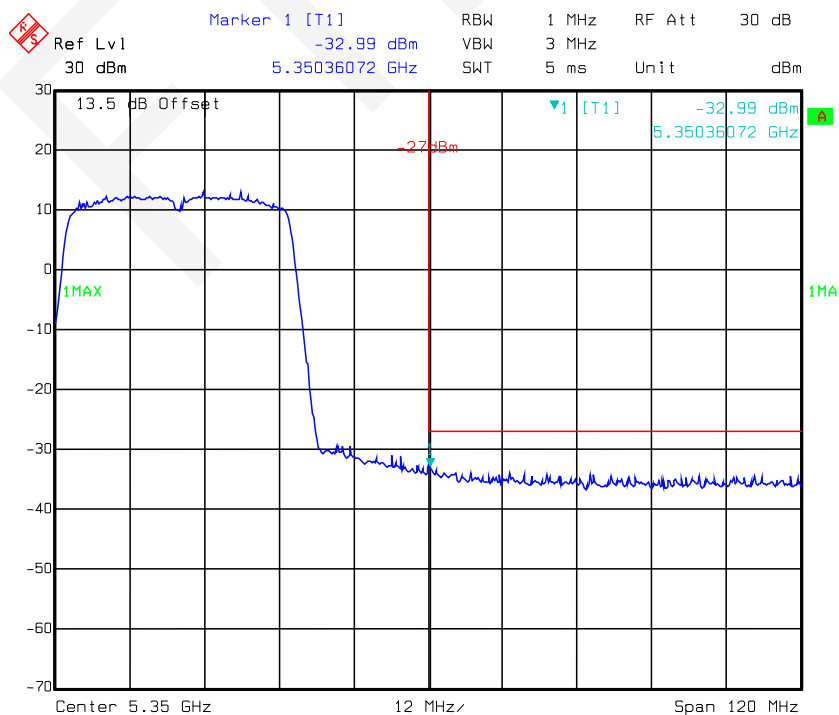


802.11n-HT40: Band Edge, Left Side, Antenna 0



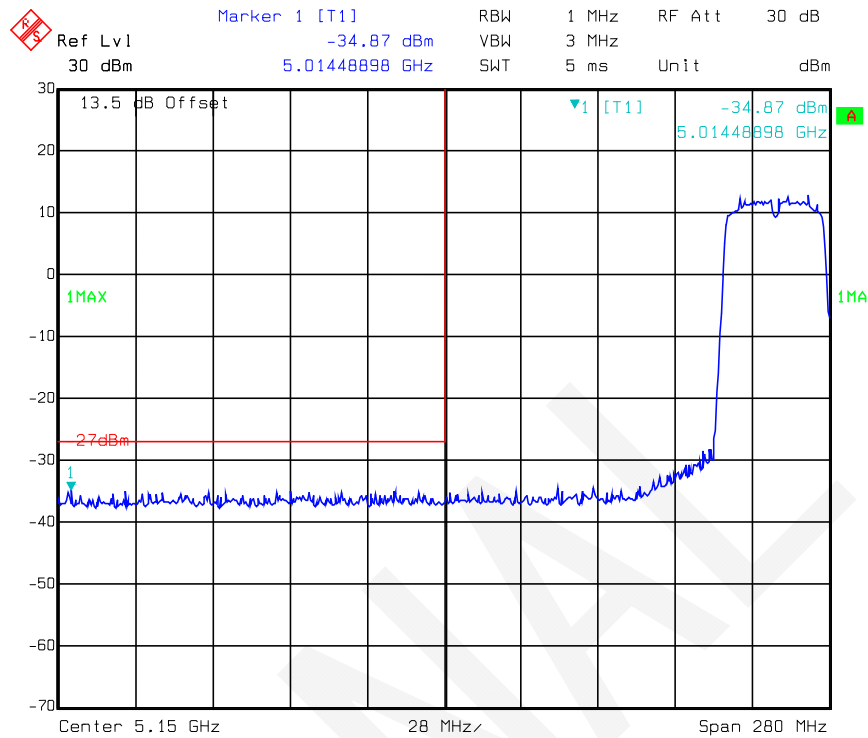
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802.11n-HT40: Band Edge, Right Side, Antenna 0



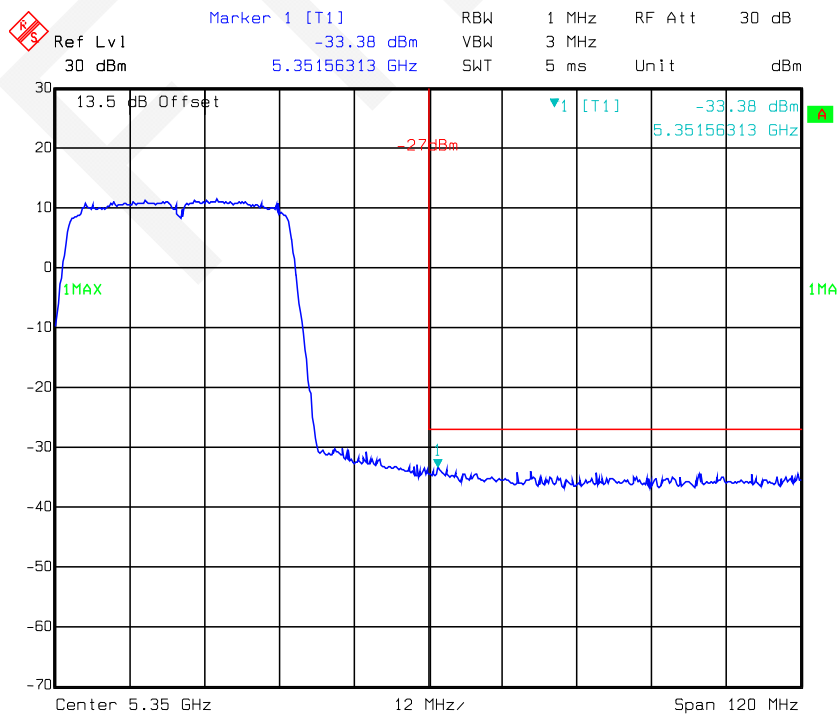
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802.11n-HT40: Band Edge, Left Side, Antenna 1



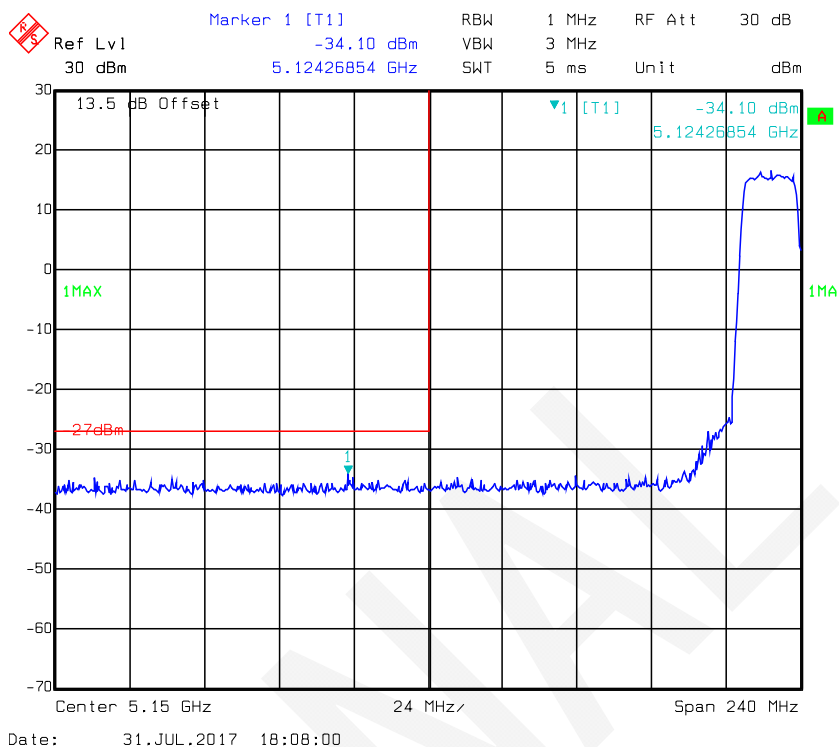
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802.11n-HT40: Band Edge, Right Side, Antenna 1

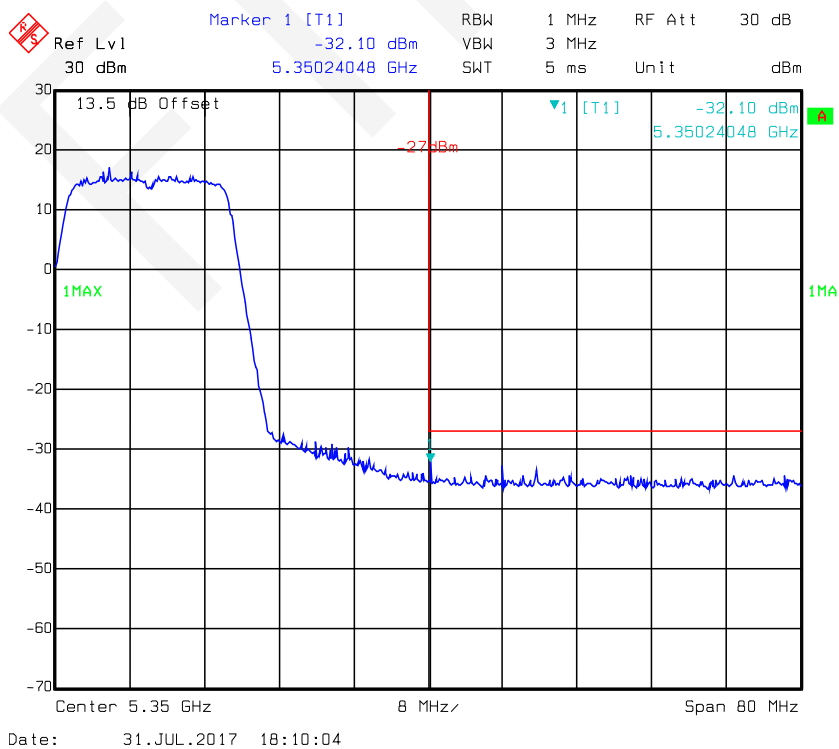


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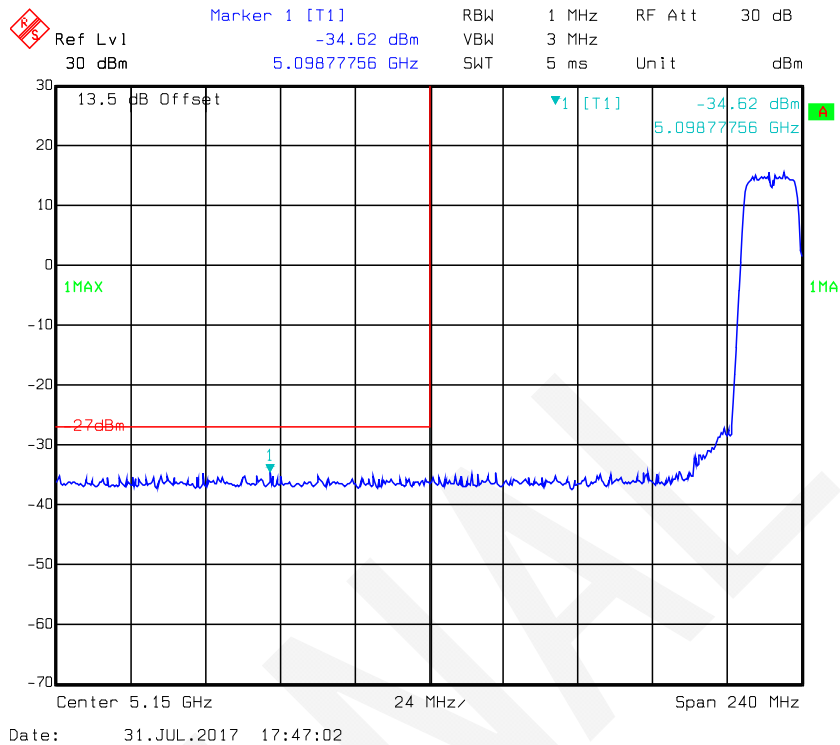
802.11ac20: Band Edge, Left Side, Antenna 0



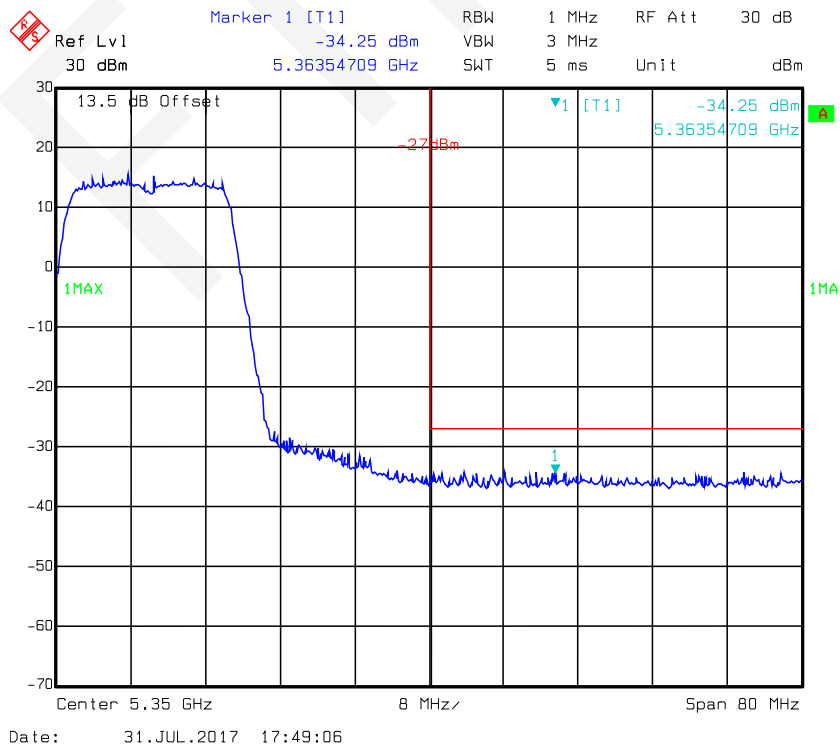
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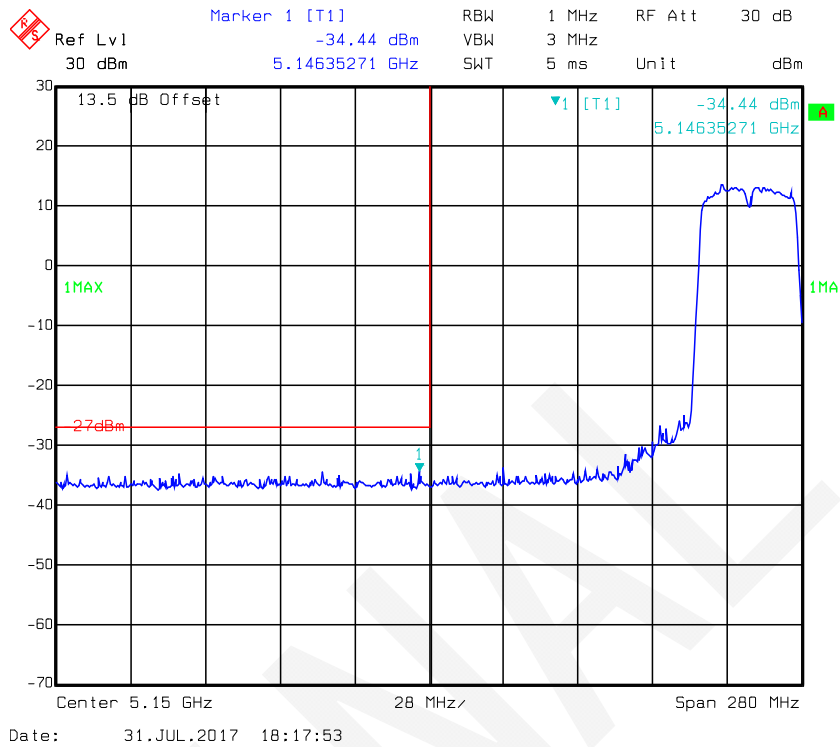
802.11ac20: Band Edge, Left Side, Antenna 1



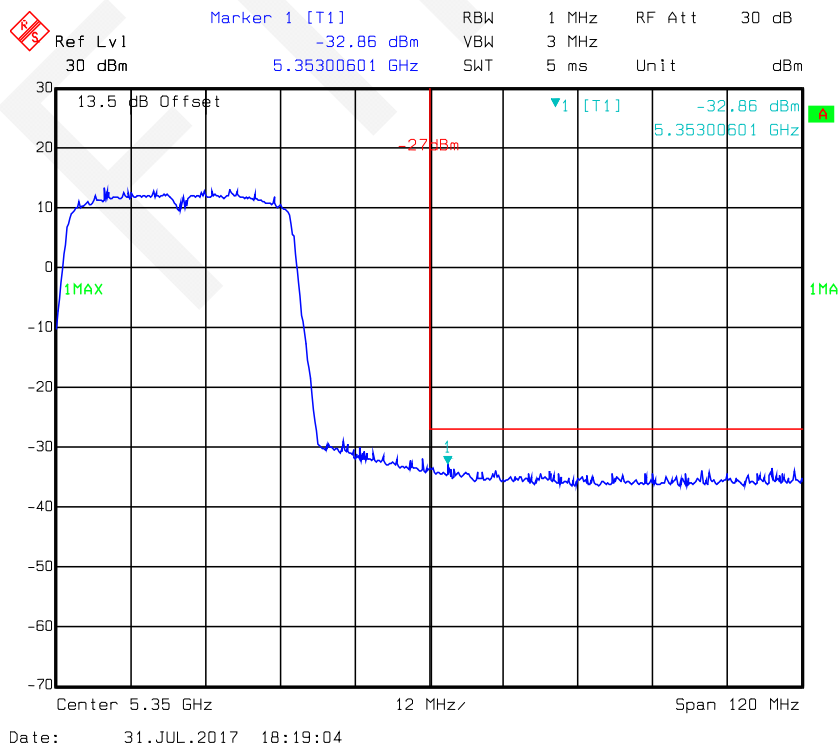
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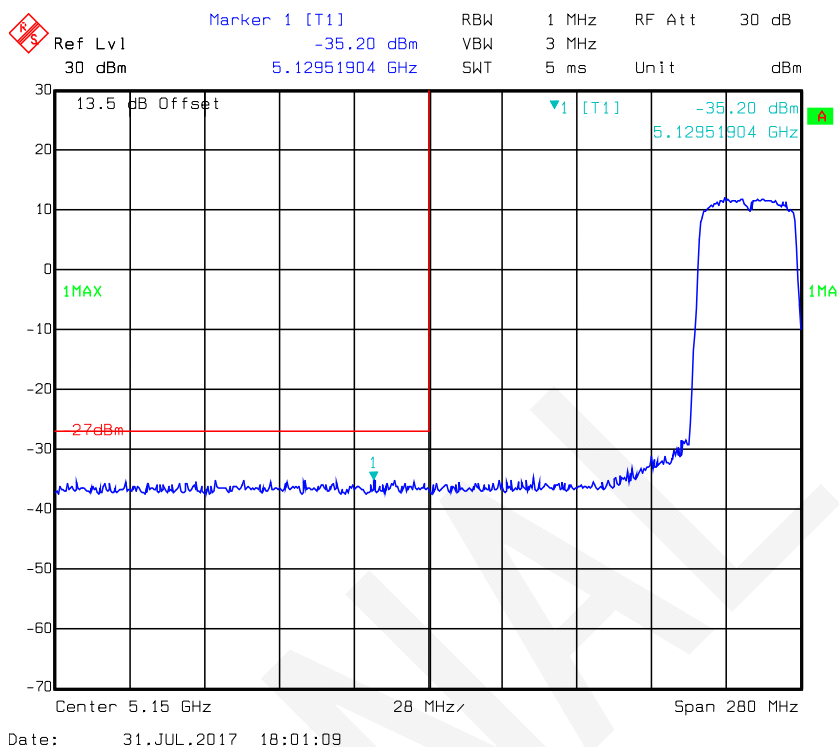
802.11ac40: Band Edge, Left Side, Antenna 0



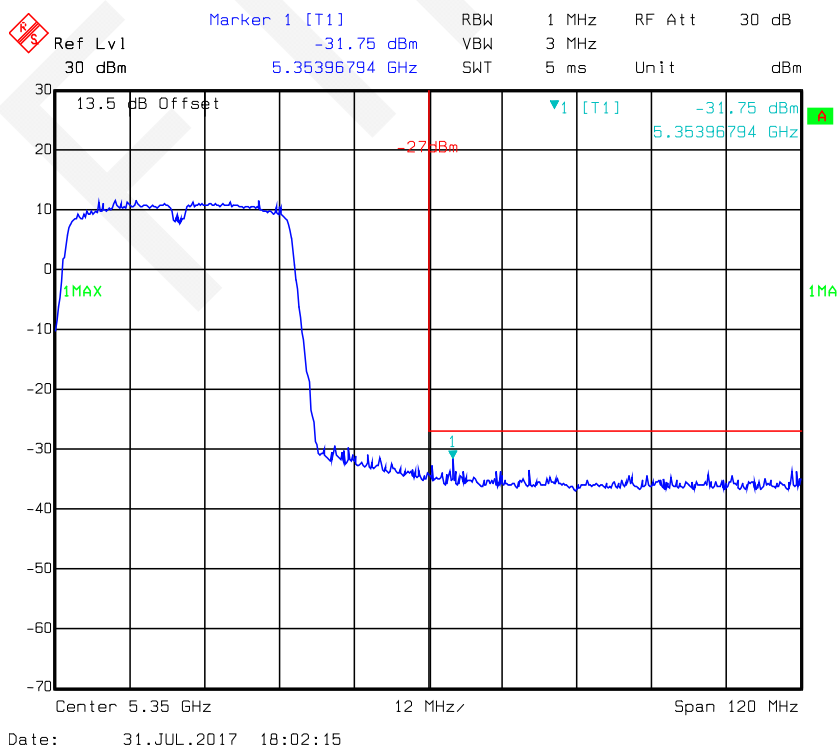
802.11ac40: Band Edge, Right Side, Antenna 0



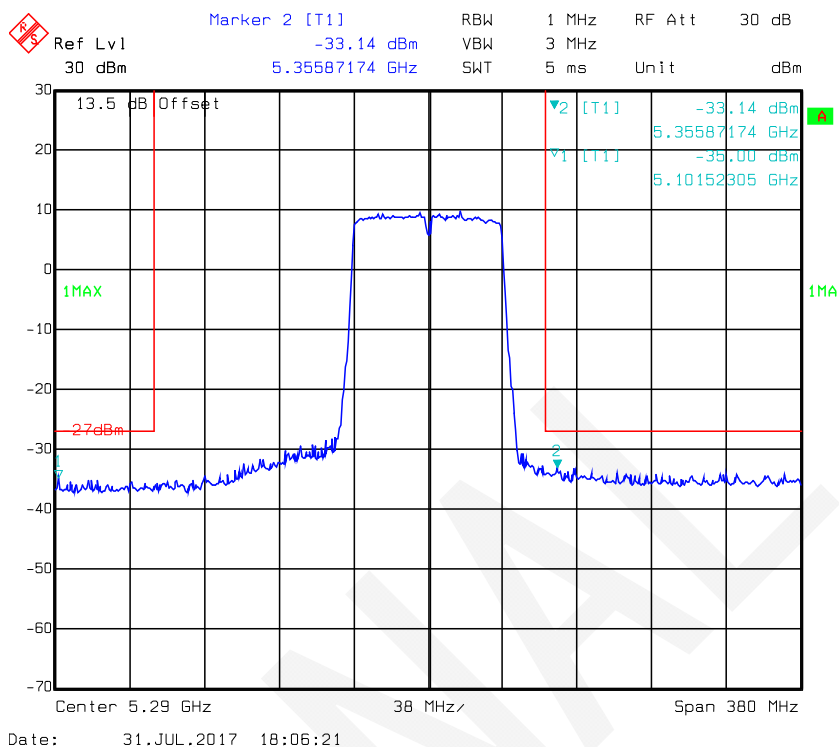
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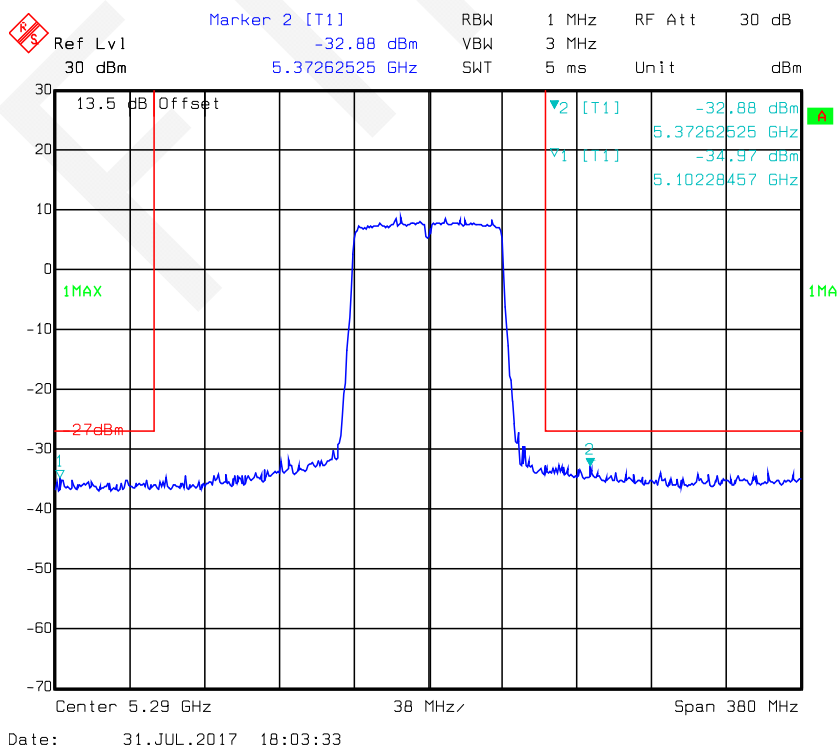
802.11ac40: Band Edge, Right Side, Antenna 1



802.11ac80: Band Edge, Antenna 0

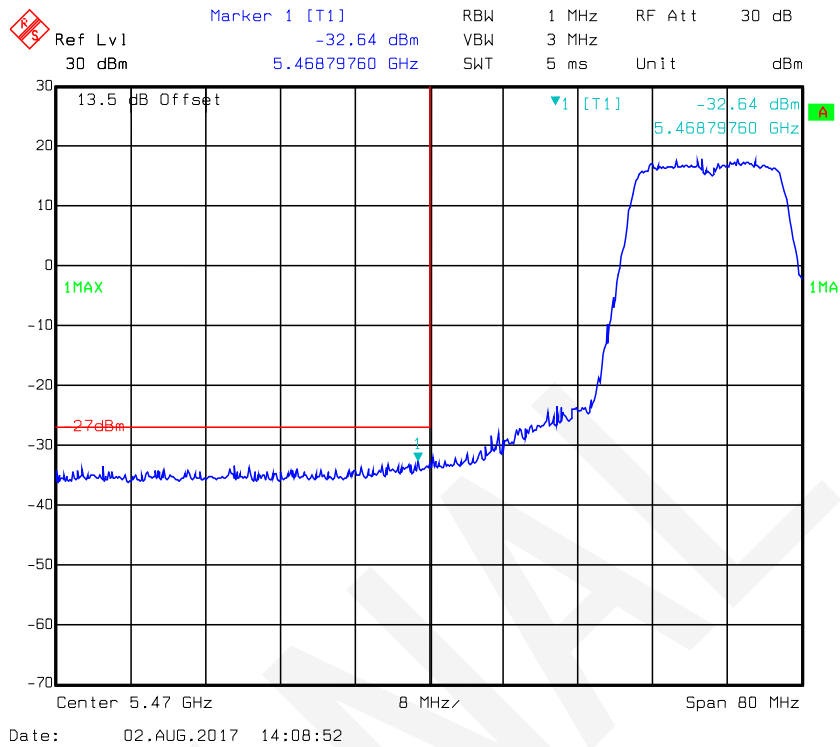


802.11ac80: Band Edge, Antenna 1

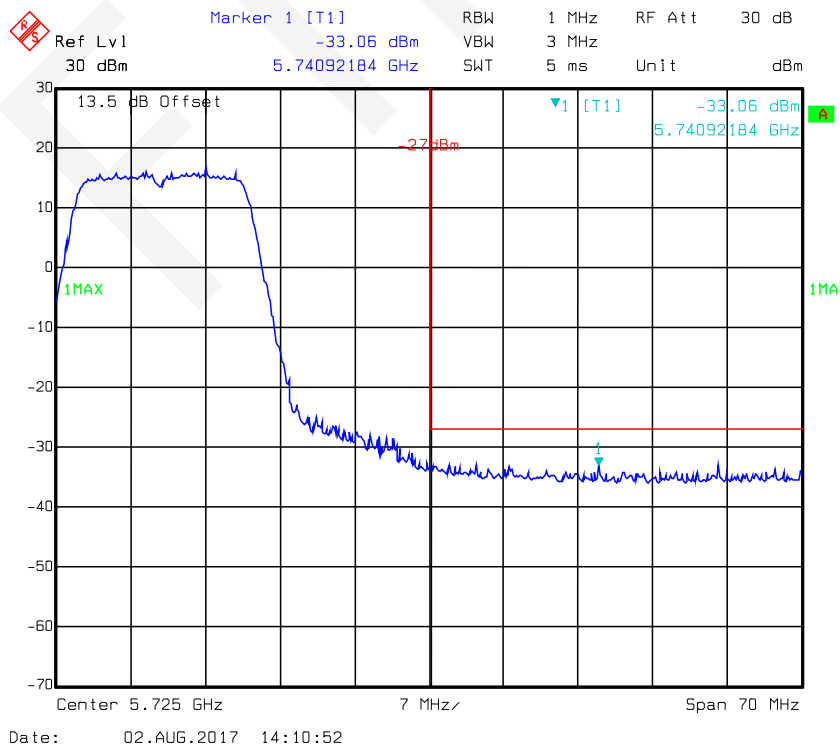


For 5470-5725 MHz:

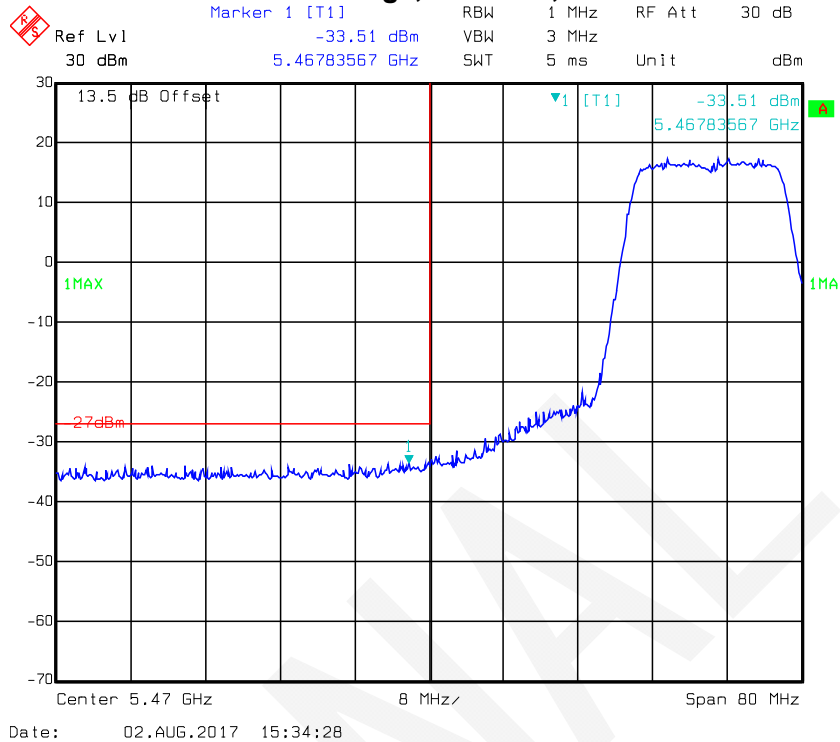
802.11a: Band Edge, Left Side, Antenna 0



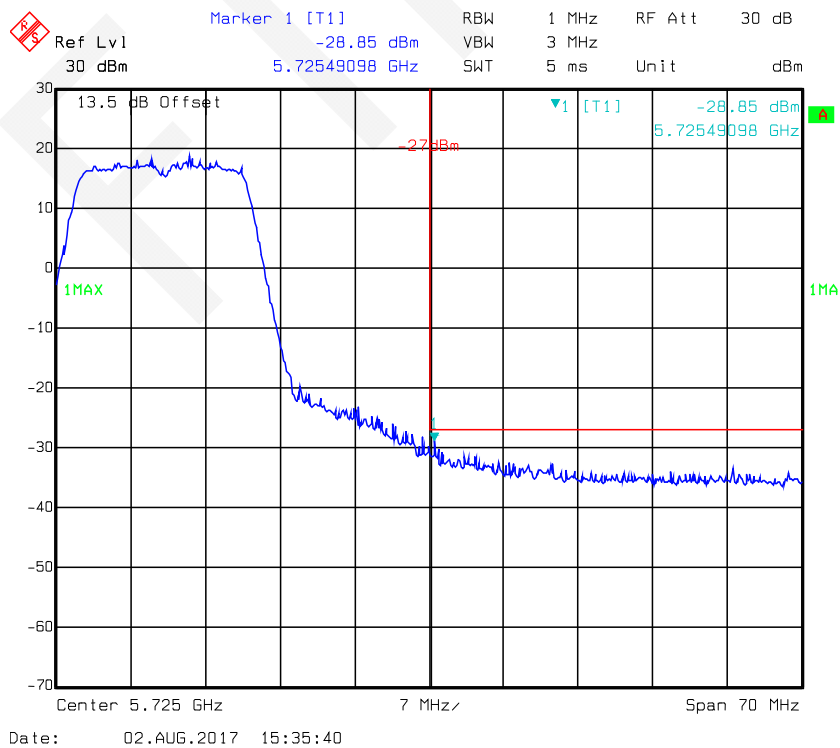
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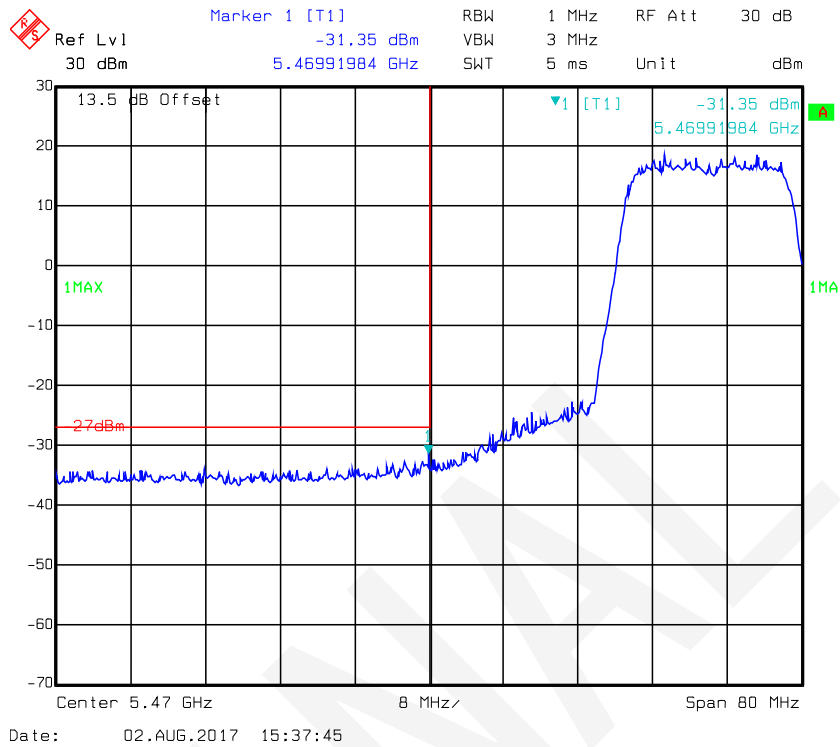
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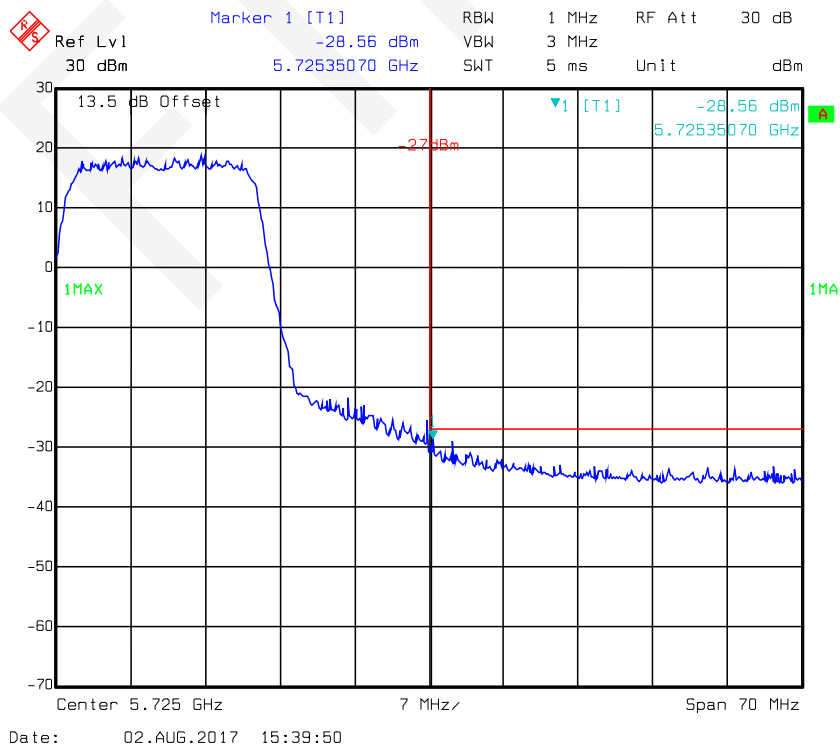
802.11a: Band Edge, Right Side, Antenna 1



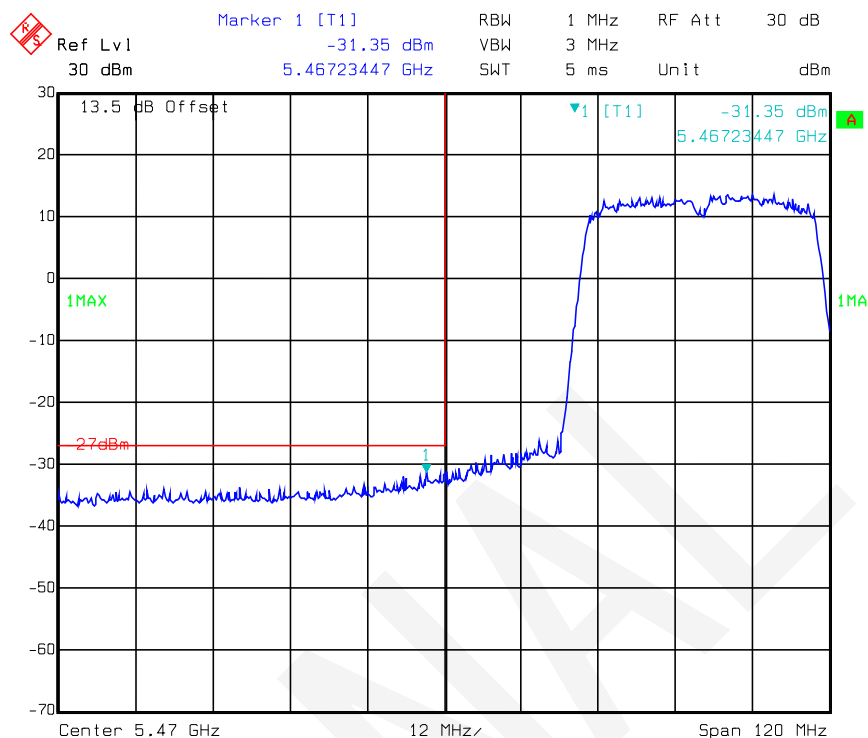
802.11n-HT20: Band Edge, Left Side, Antenna 1



802.11n-HT20: Band Edge, Right Side, Antenna 1

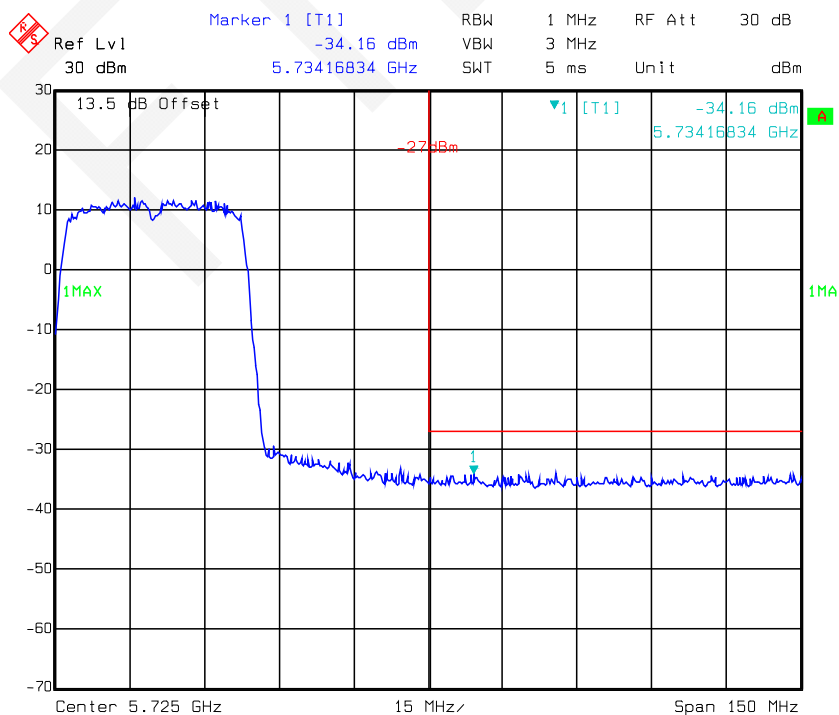


802.11n-HT40: Band Edge, Left Side, Antenna 0



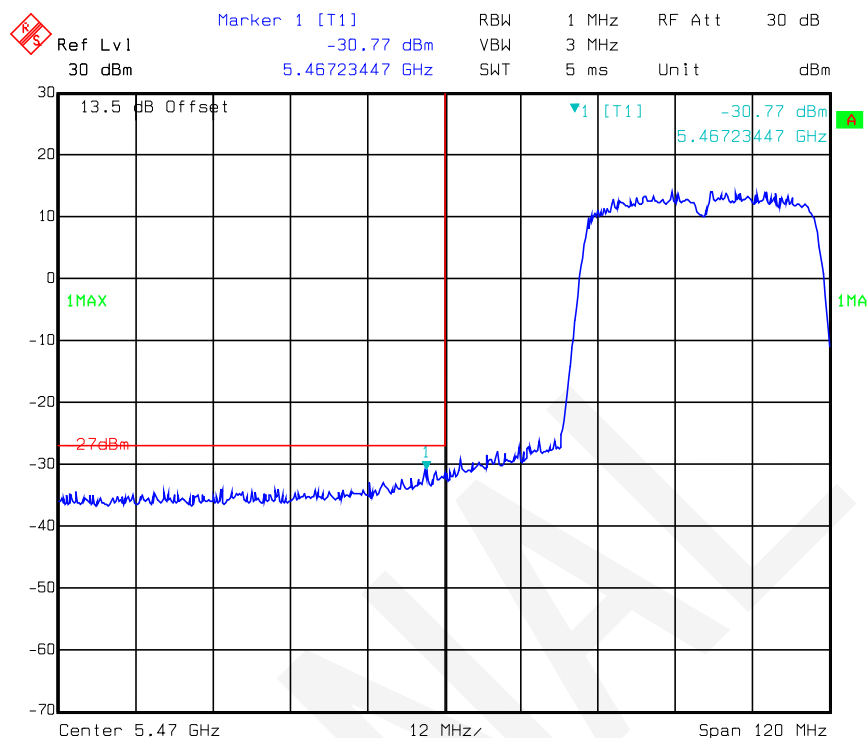
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802.11n-HT40: Band Edge, Right Side, Antenna 0



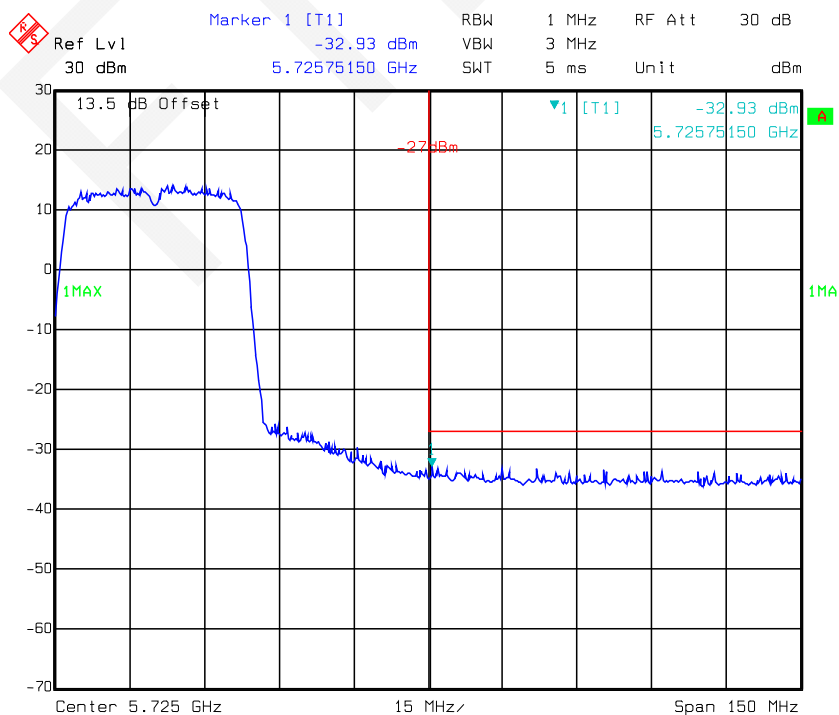
Date: 02.AUG.2017 14:22:00

802.11n-HT40: Band Edge, Left Side, Antenna 1



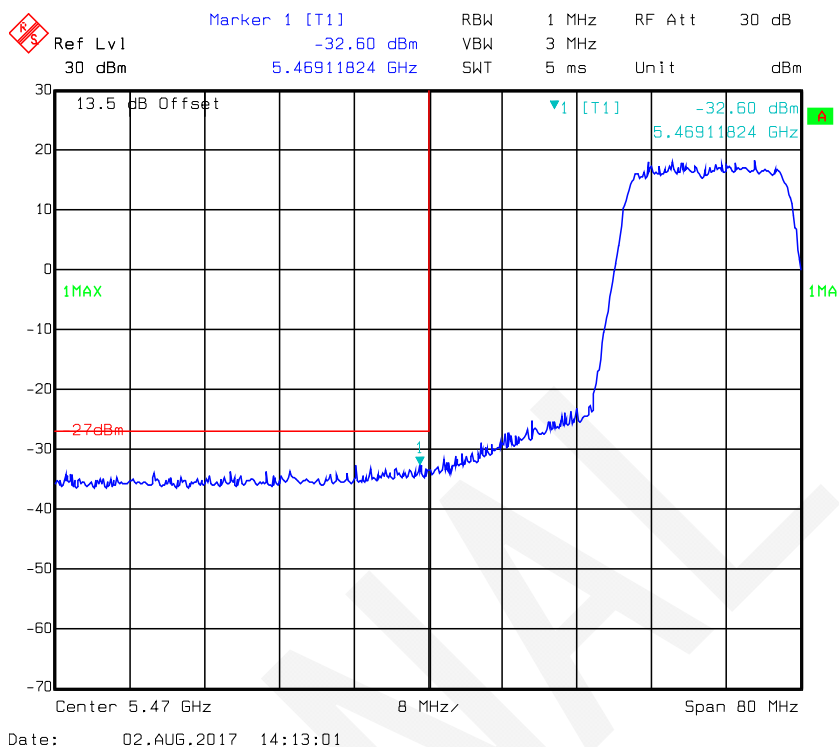
Date: 02.AUG.2017 16:20:46

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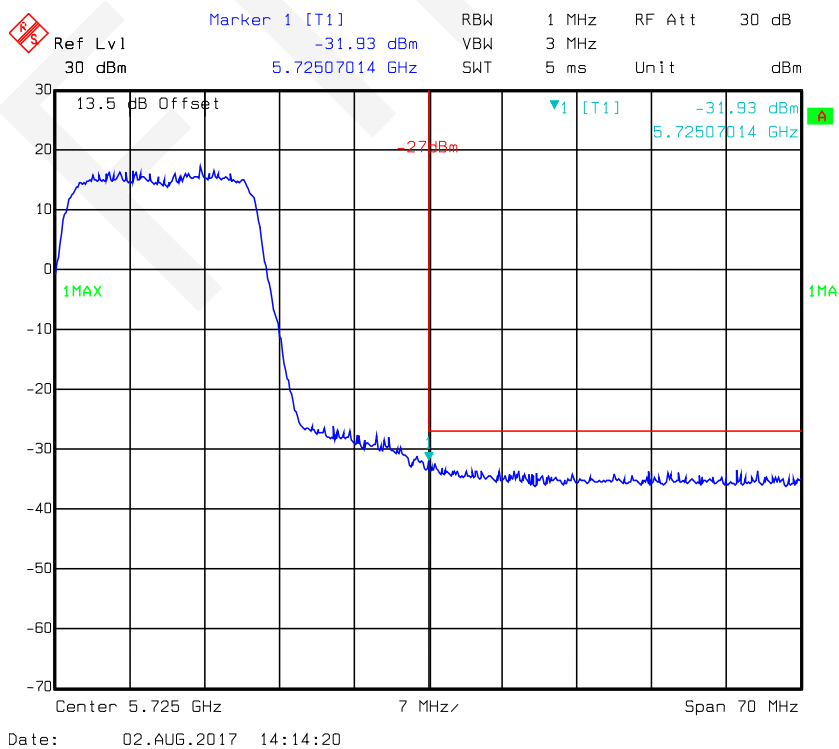


Date: 02.AUG.2017 16:22:19

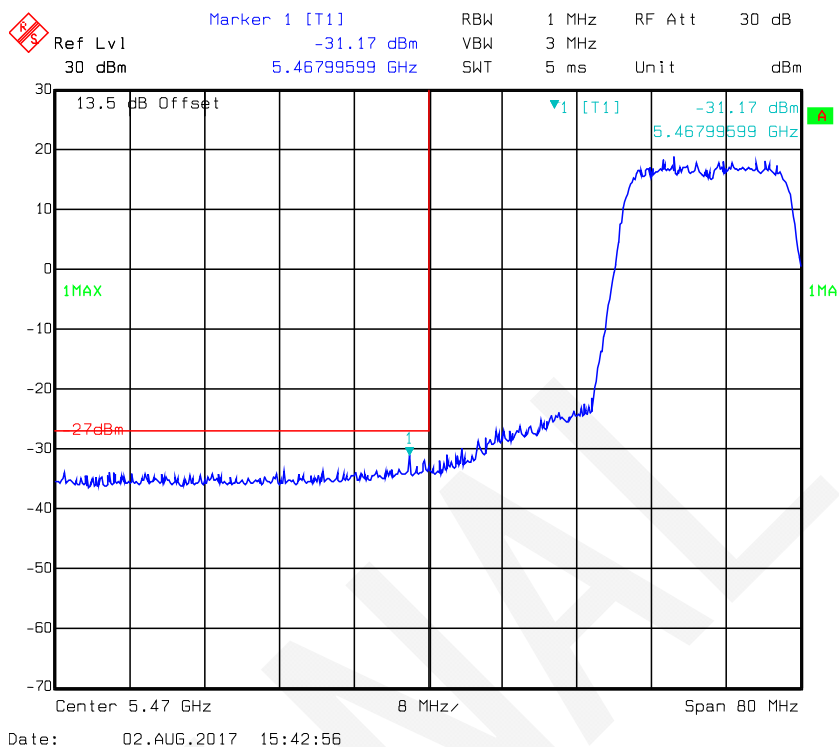
802.11ac20: Band Edge, Left Side, Antenna 0



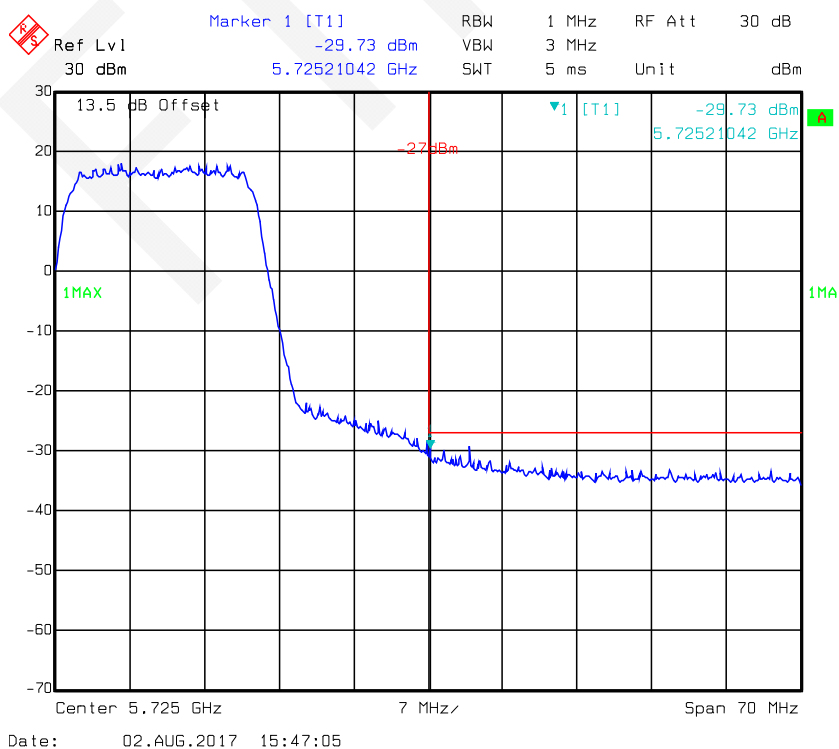
802.11ac20: Band Edge, Right Side, Antenna 0



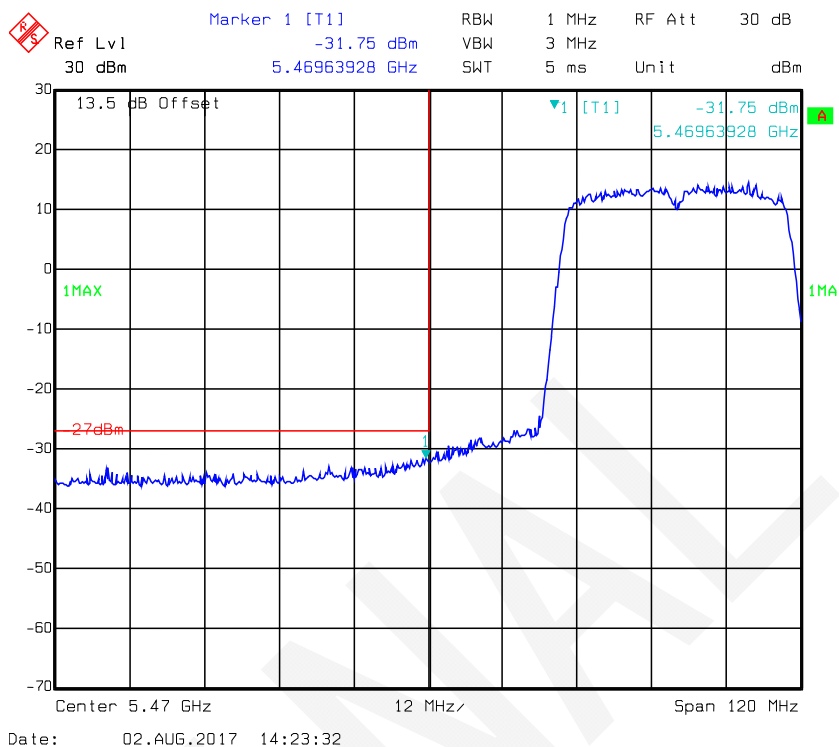
802.11ac20: Band Edge, Left Side, Antenna 1



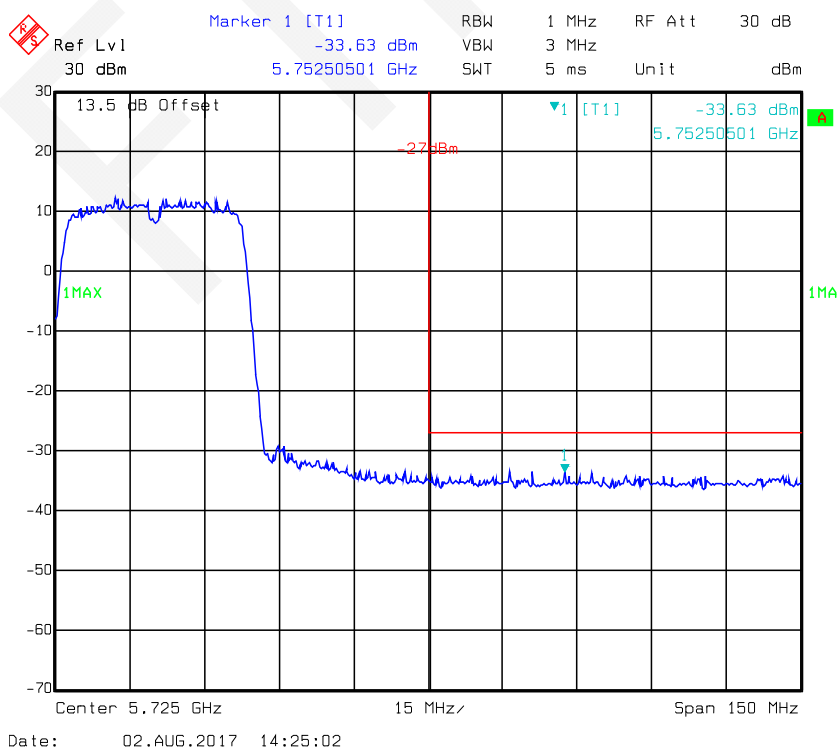
802.11ac20: Band Edge, Right Side, Antenna 1



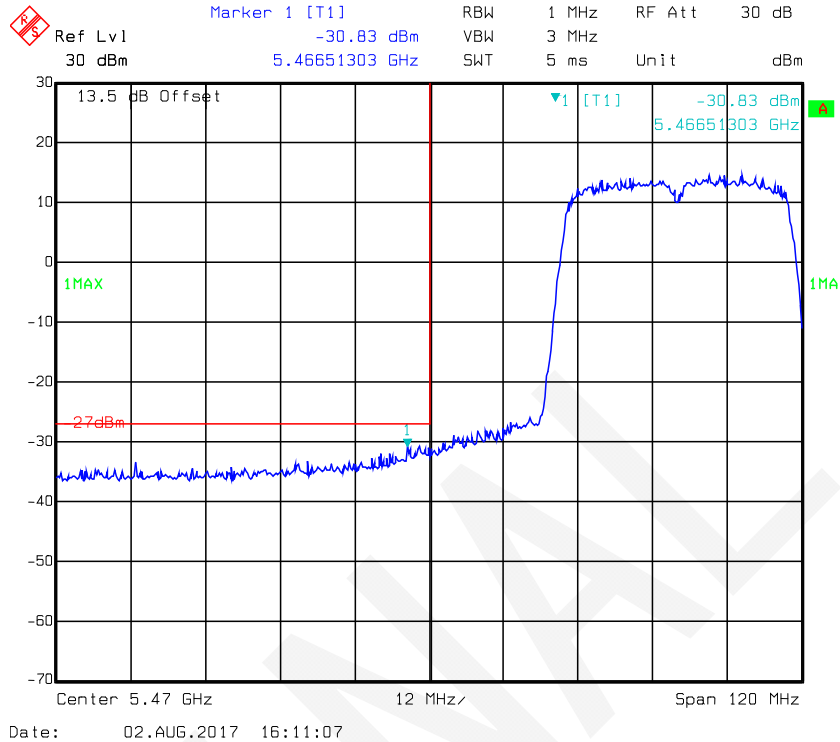
802.11ac40: Band Edge, Left Side, Antenna 0



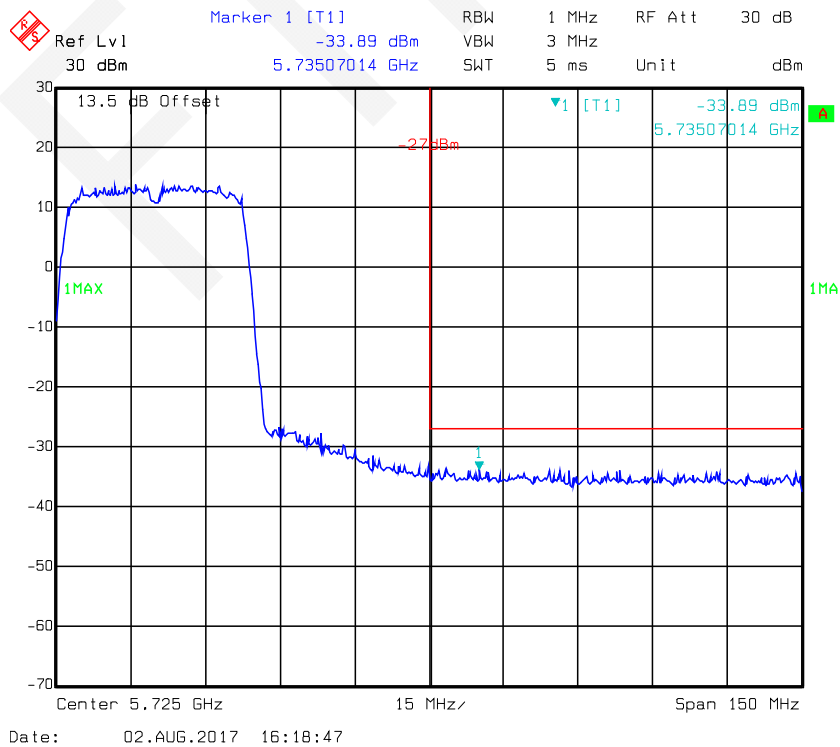
802.11ac40: Band Edge, Right Side, Antenna 0



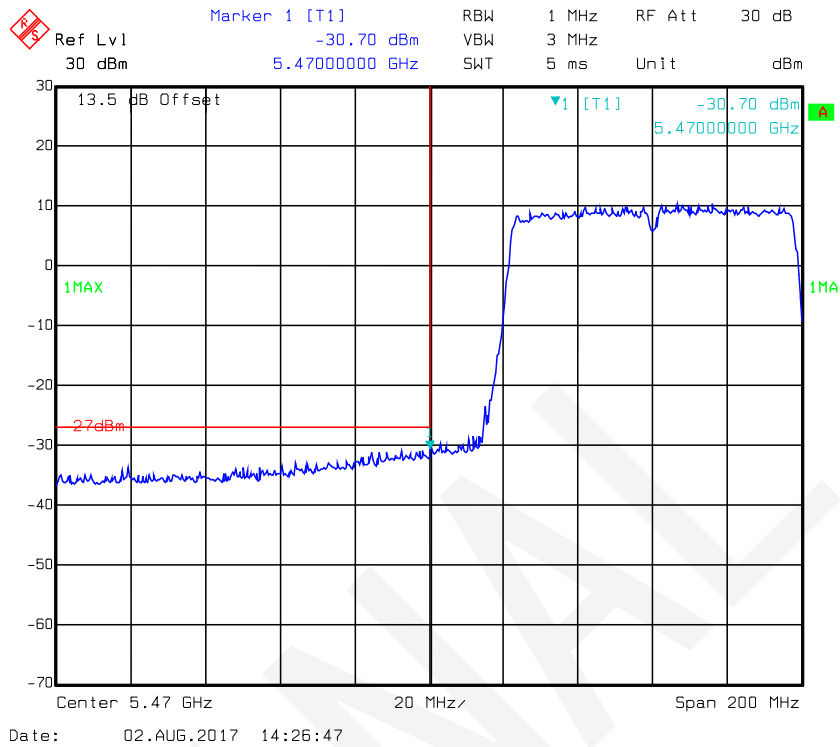
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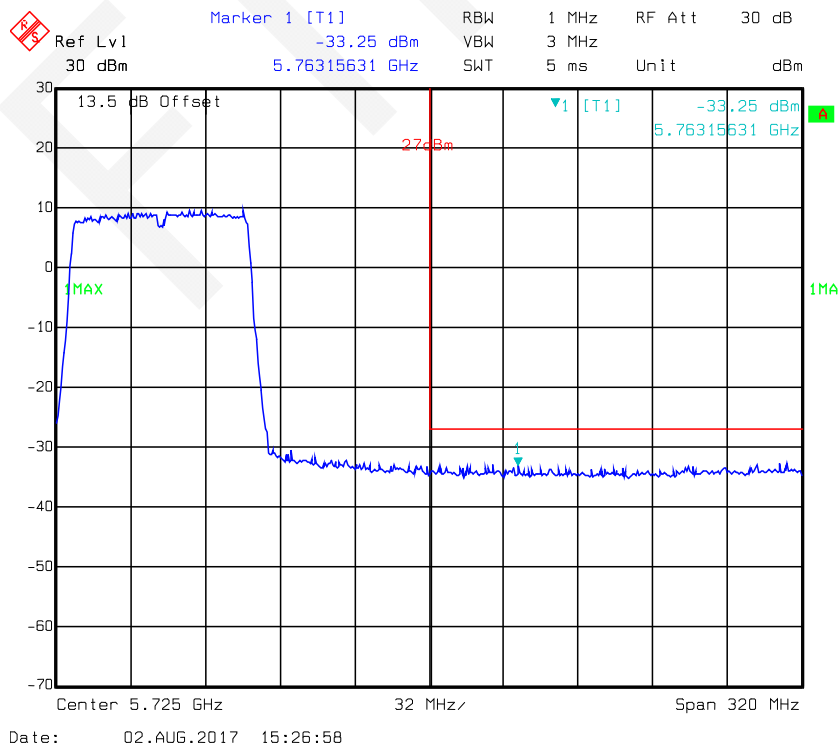
802.11ac40: Band Edge, Right Side, Antenna 1



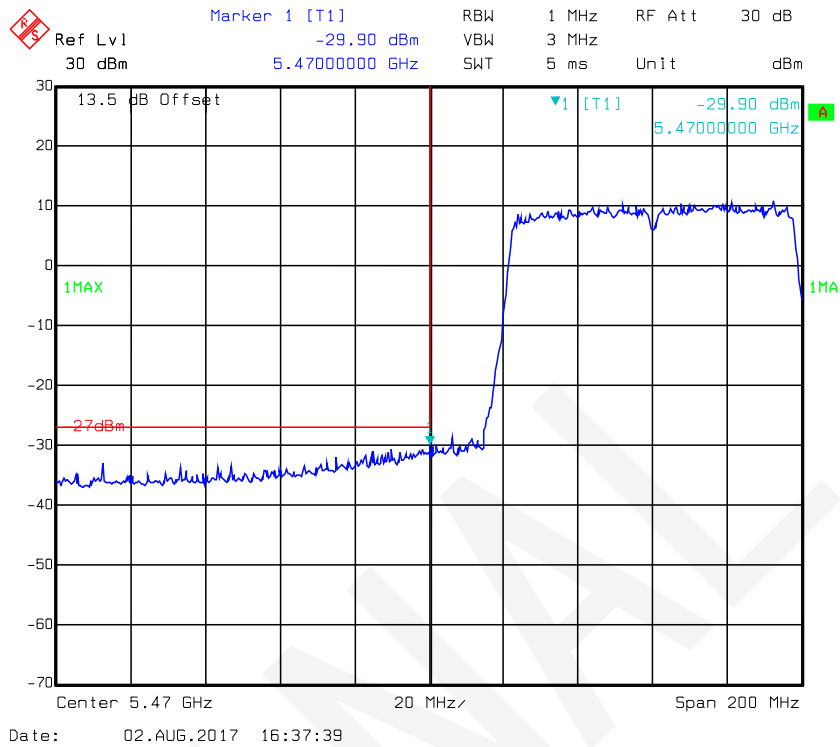
802.11ac80: Band Edge, Left Side, Antenna 0



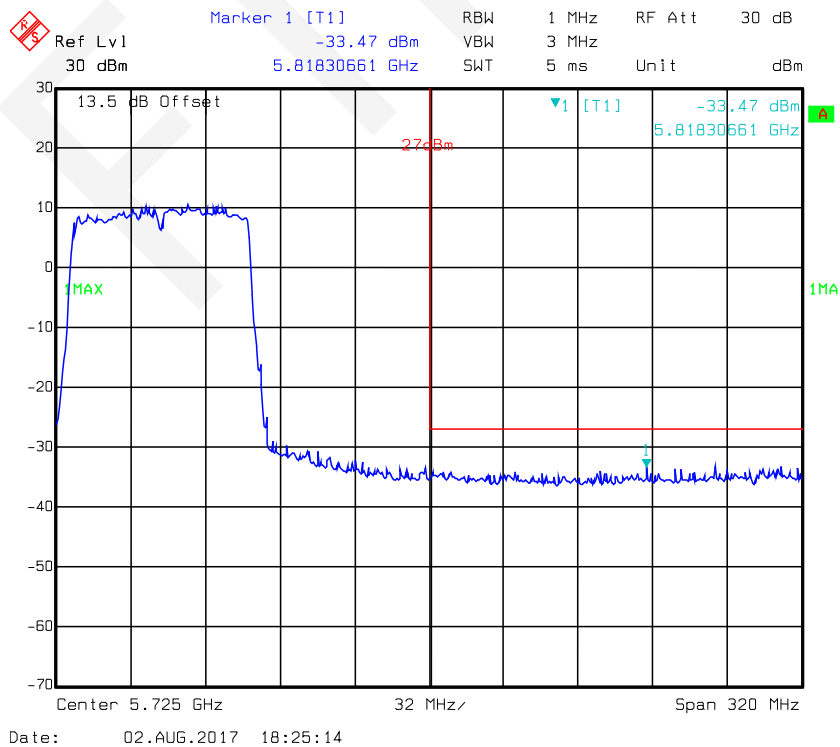
802.11ac80: Band Edge, Right Side, Antenna 0



802.11ac80: Band Edge, Left Side, Antenna 1

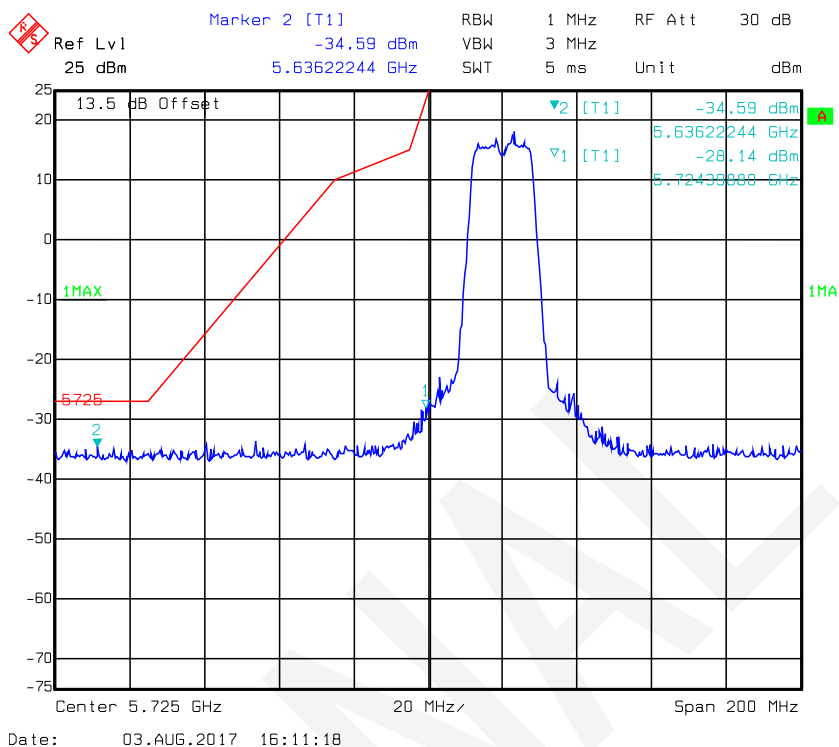


802.11ac80: Band Edge, Right Side, Antenna 1

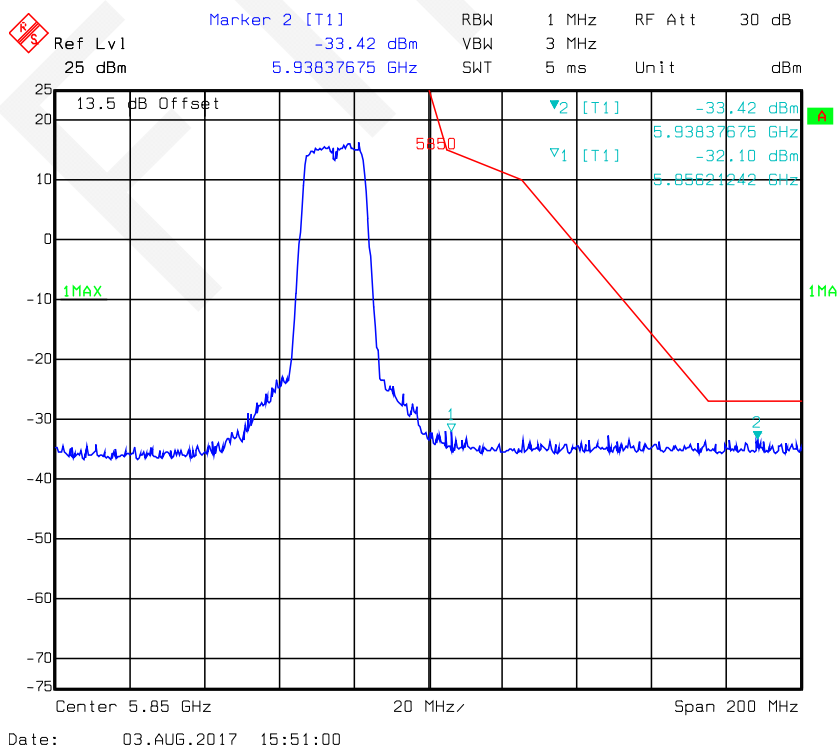


For 5725-5850 MHz:

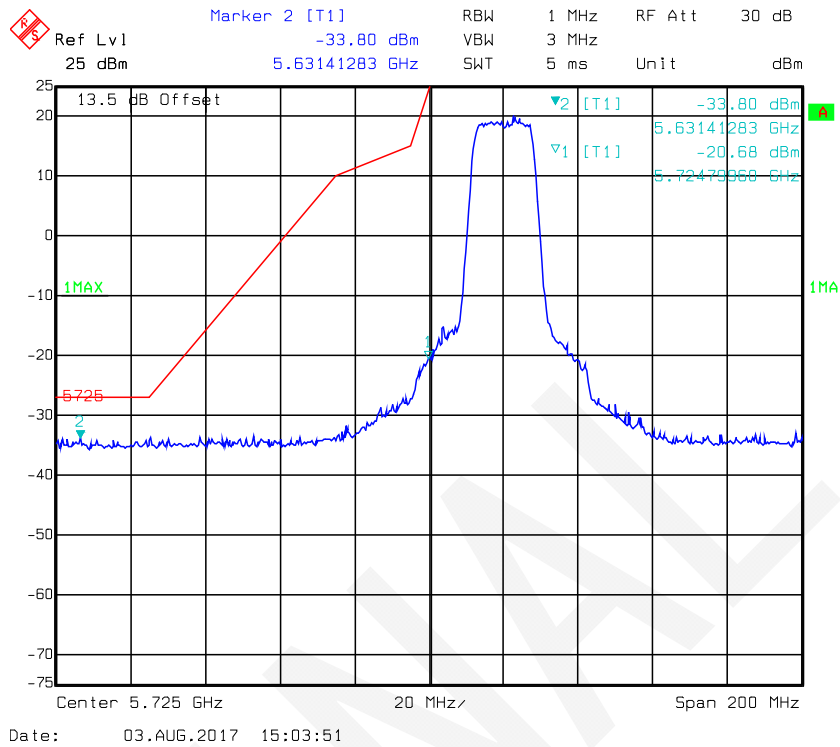
802.11a: Band Edge, Left Side, Antenna 0



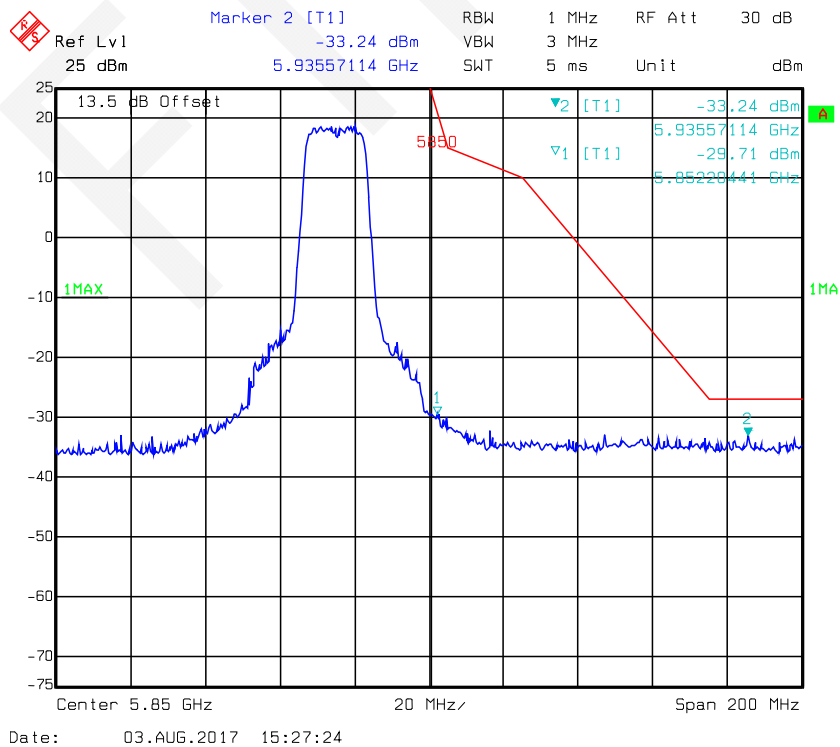
802.11a: Band Edge, Right Side, Antenna 0

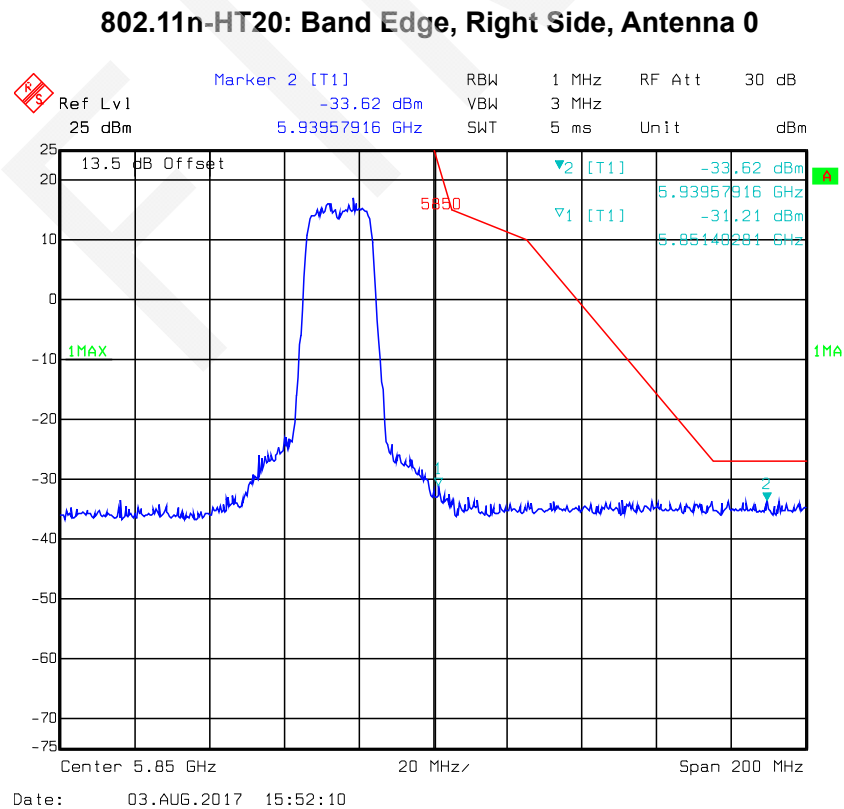
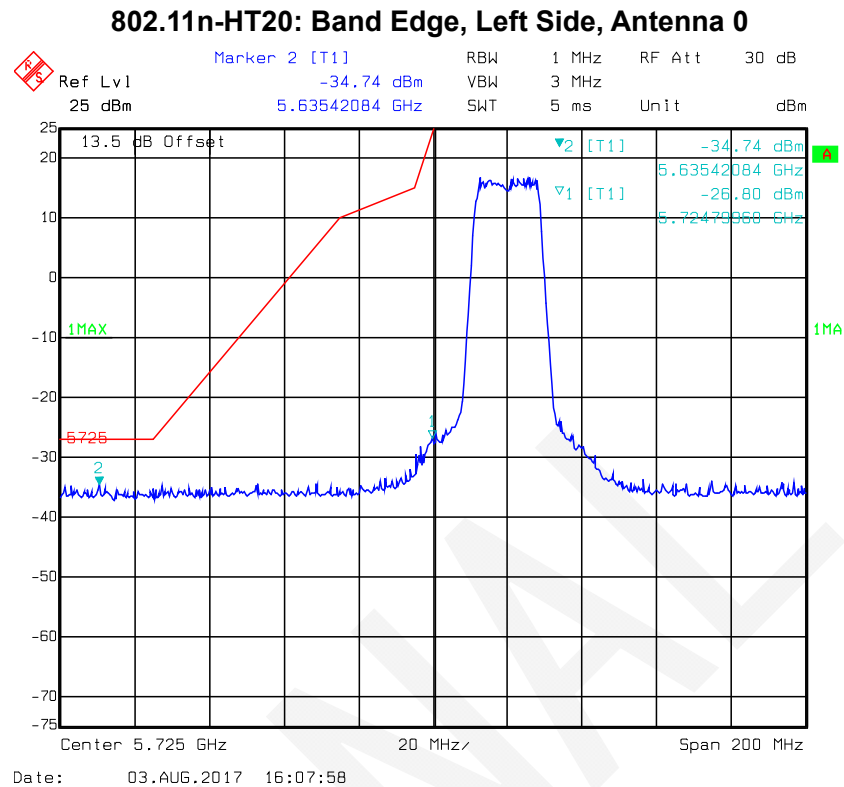


802.11a: Band Edge, Left Side, Antenna 1

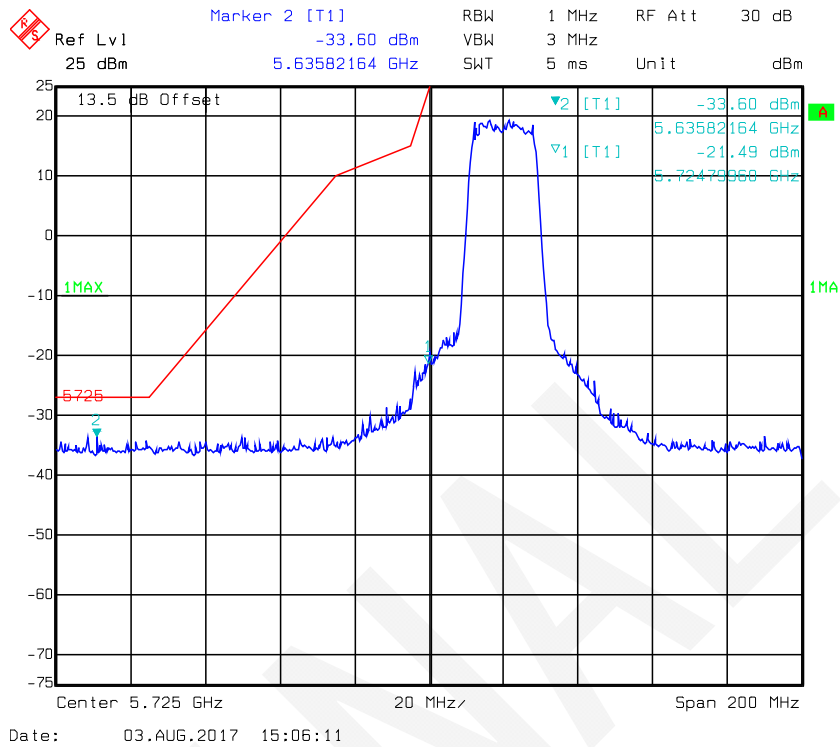


802.11a: Band Edge, Right Side, Antenna 1

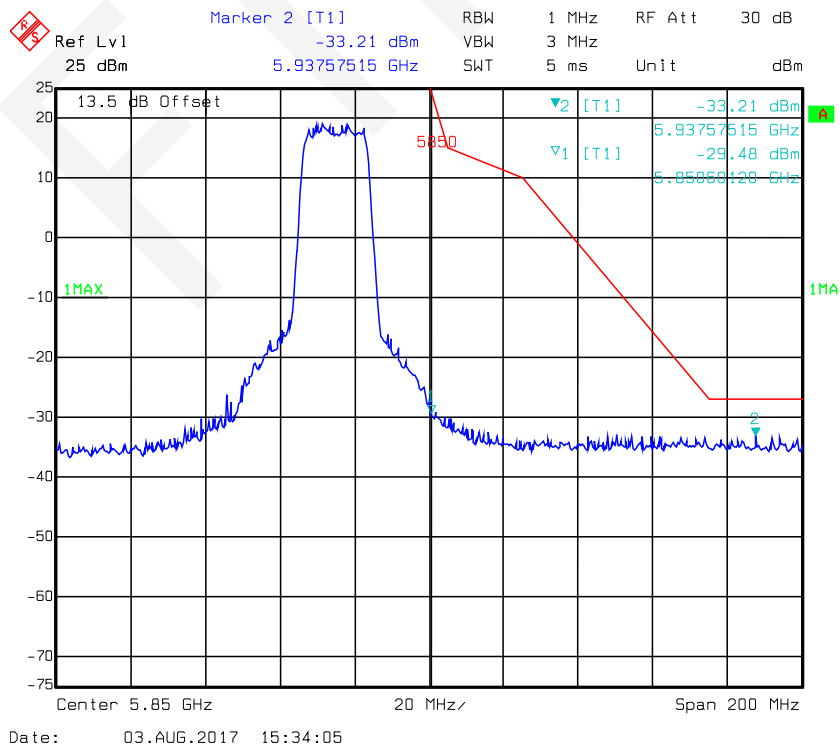




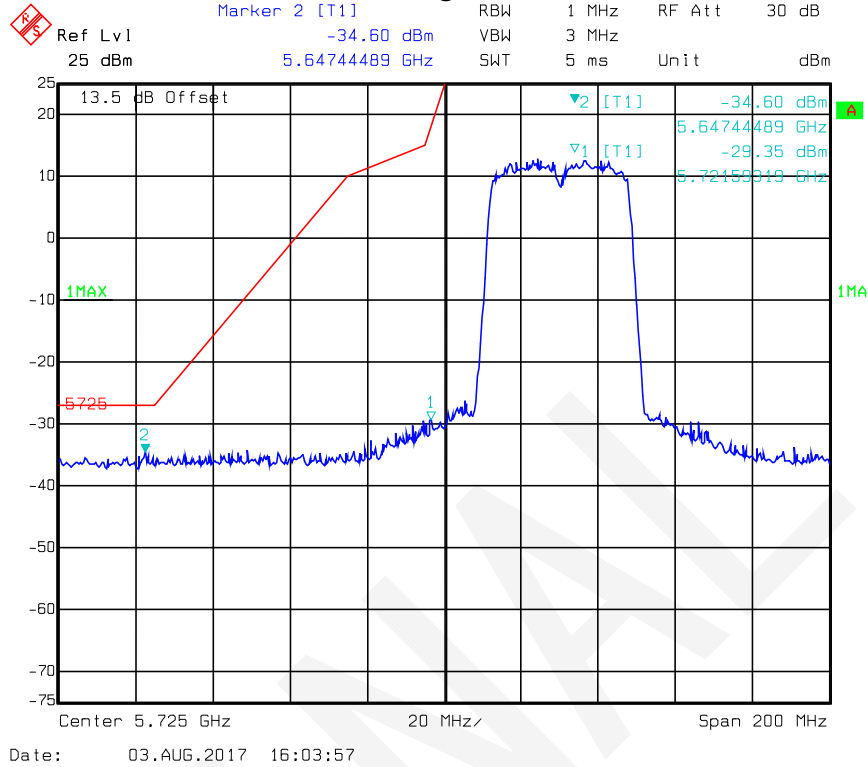
802.11n-HT20: Band Edge, Left Side, Antenna 1



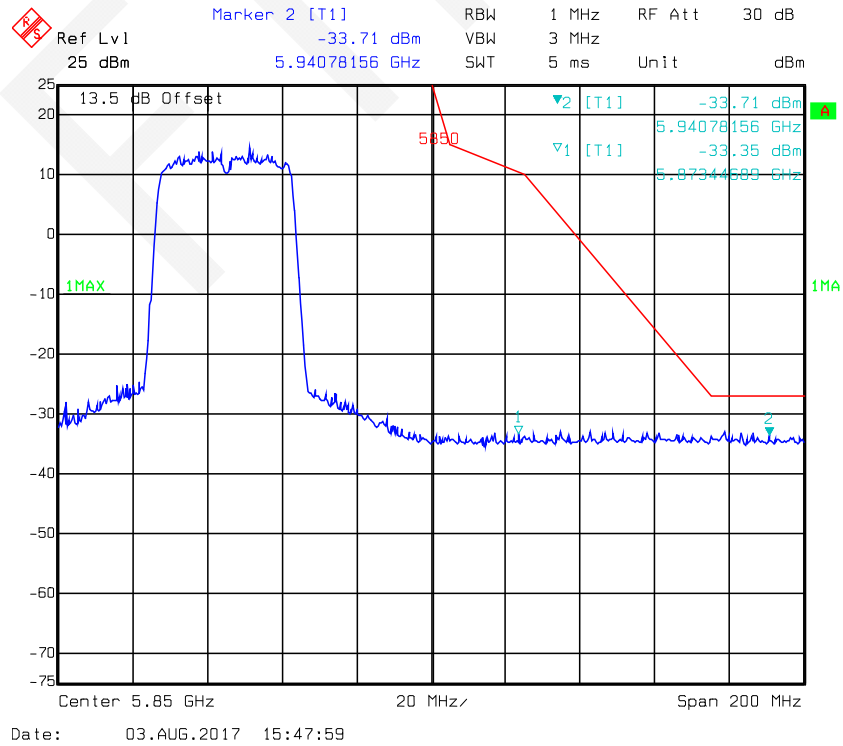
802.11n-HT20: Band Edge, Right Side, Antenna 1



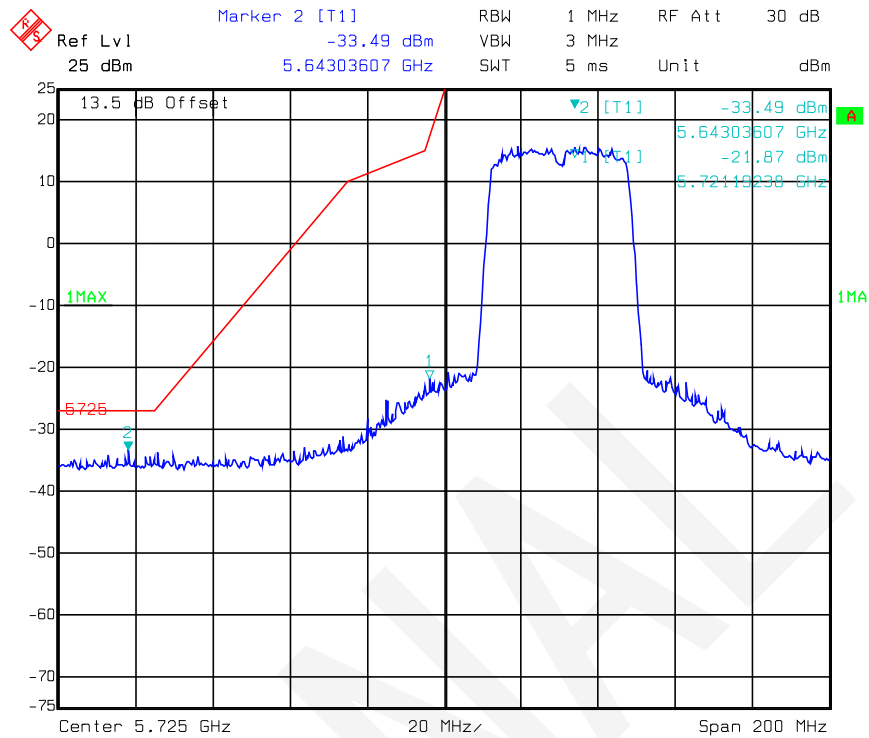
802.11n-HT40: Band Edge, Left Side, Antenna 0



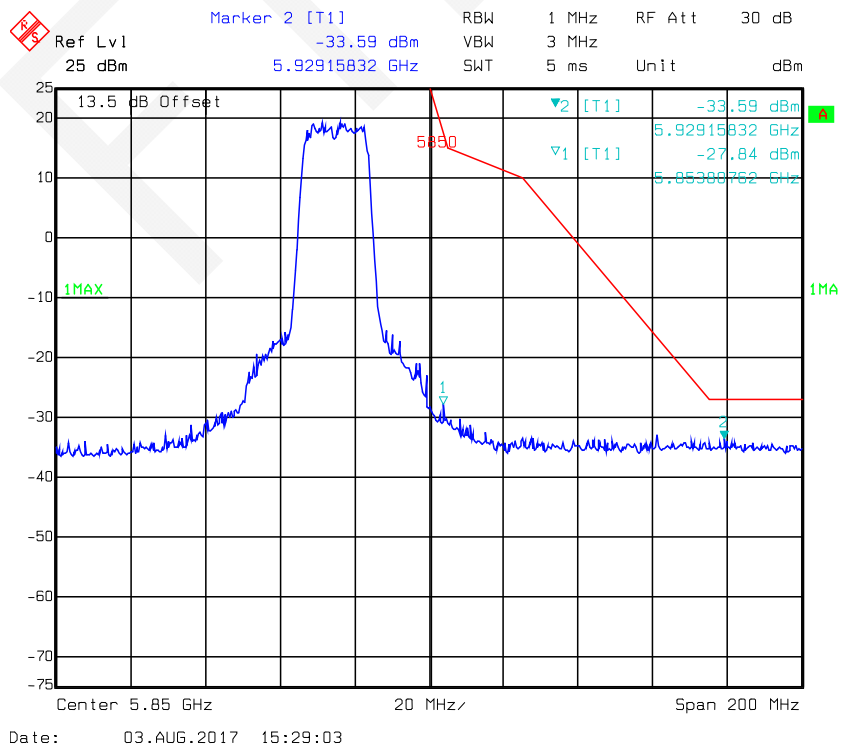
802.11n-HT40: Band Edge, Right Side, Antenna 0



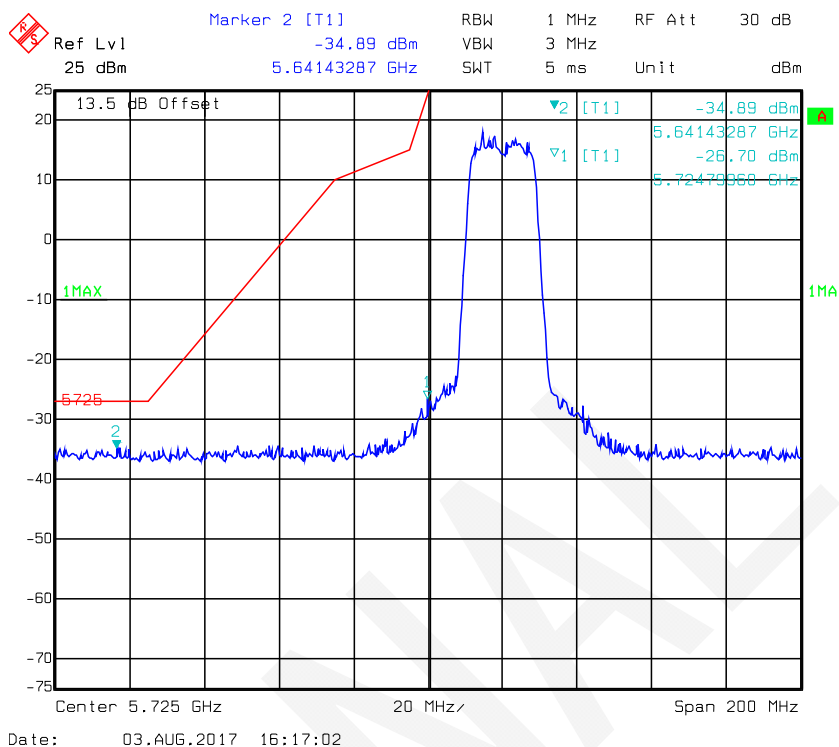
802.11n-HT40: Band Edge, Left Side, Antenna 1



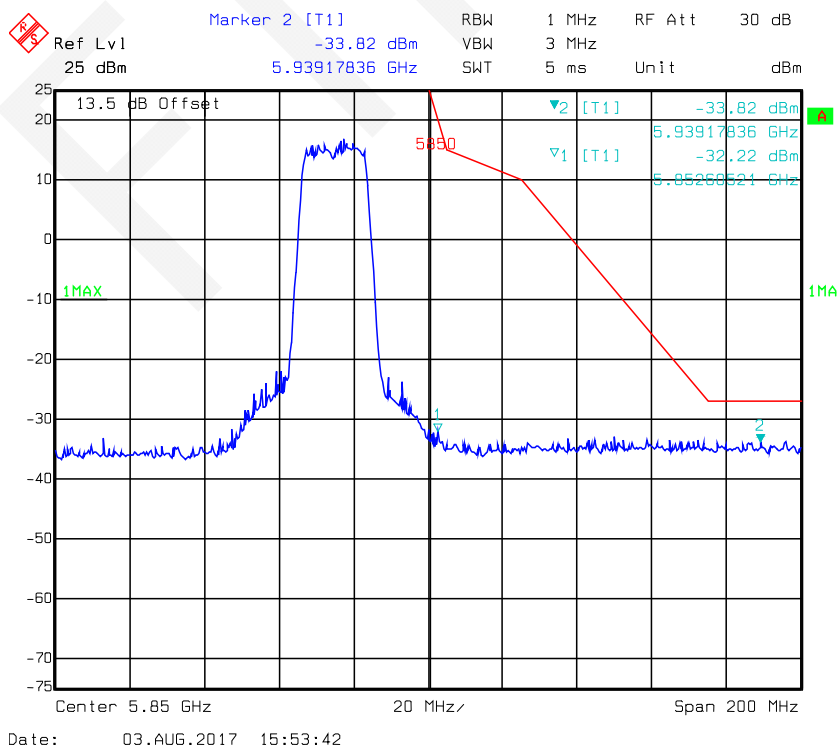
802.11n-HT40: Band Edge, Right Side, Antenna 1



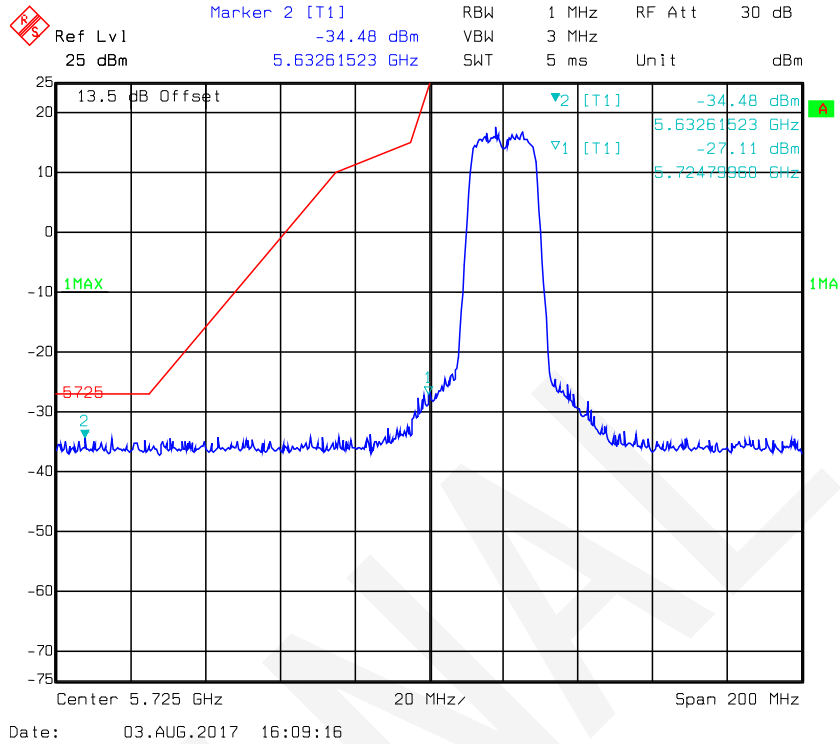
802.11ac20: Band Edge, Left Side, Antenna 0



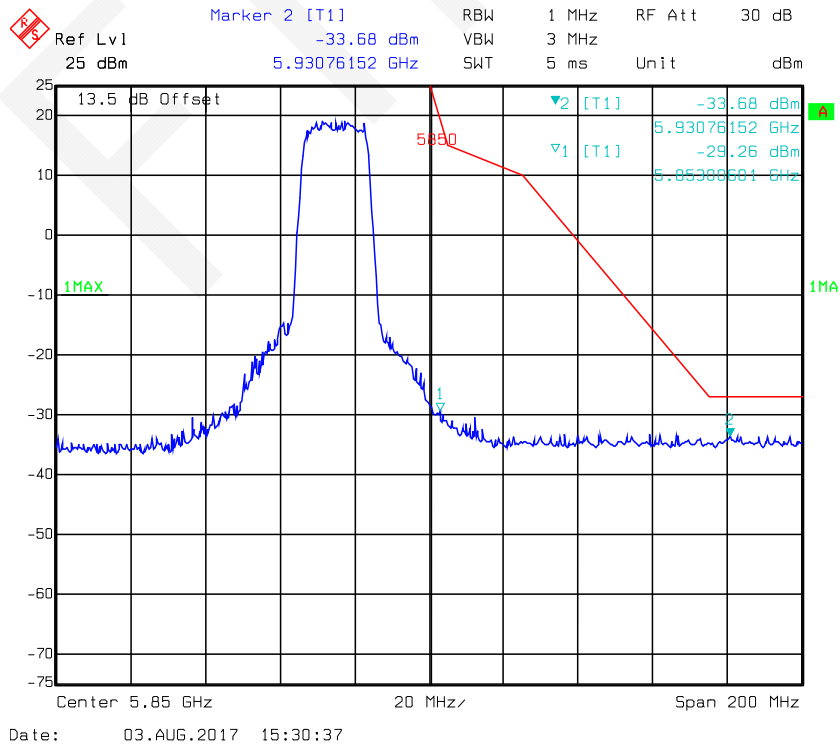
802.11ac20: Band Edge, Right Side, Antenna 0



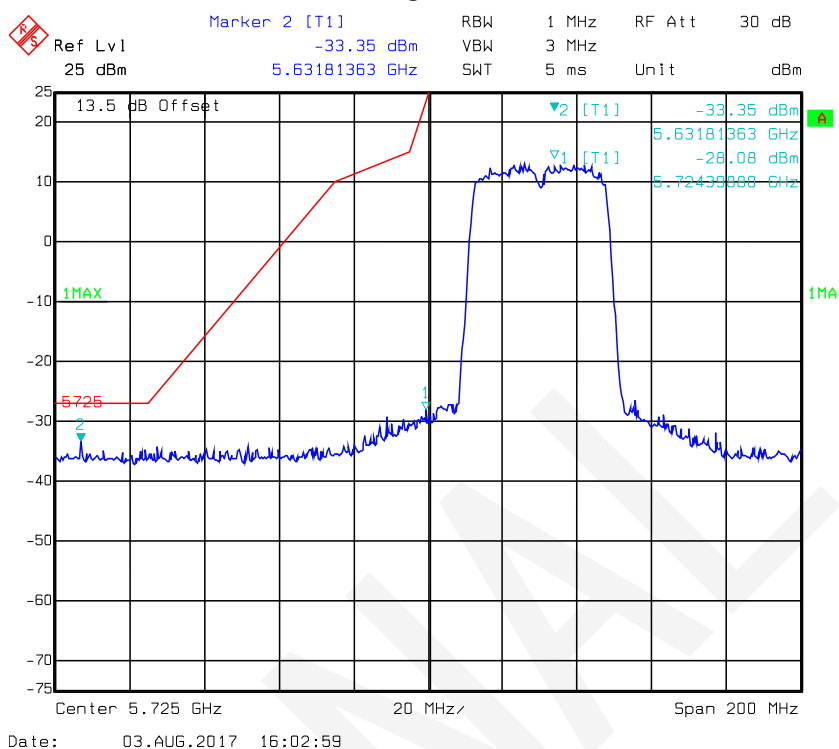
802.11ac20: Band Edge, Left Side, Antenna 1



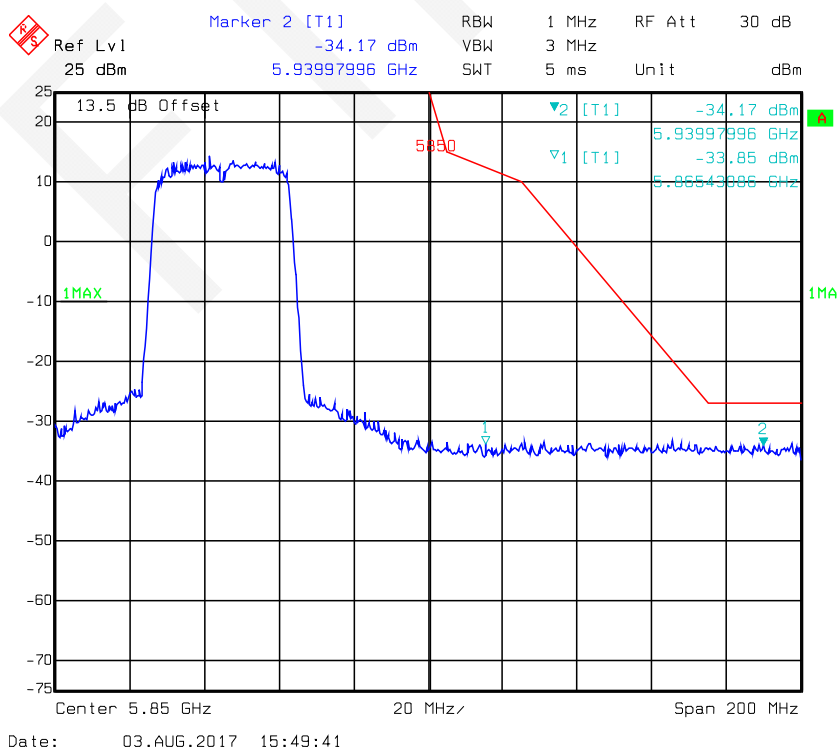
802.11ac20: Band Edge, Right Side, Antenna 1



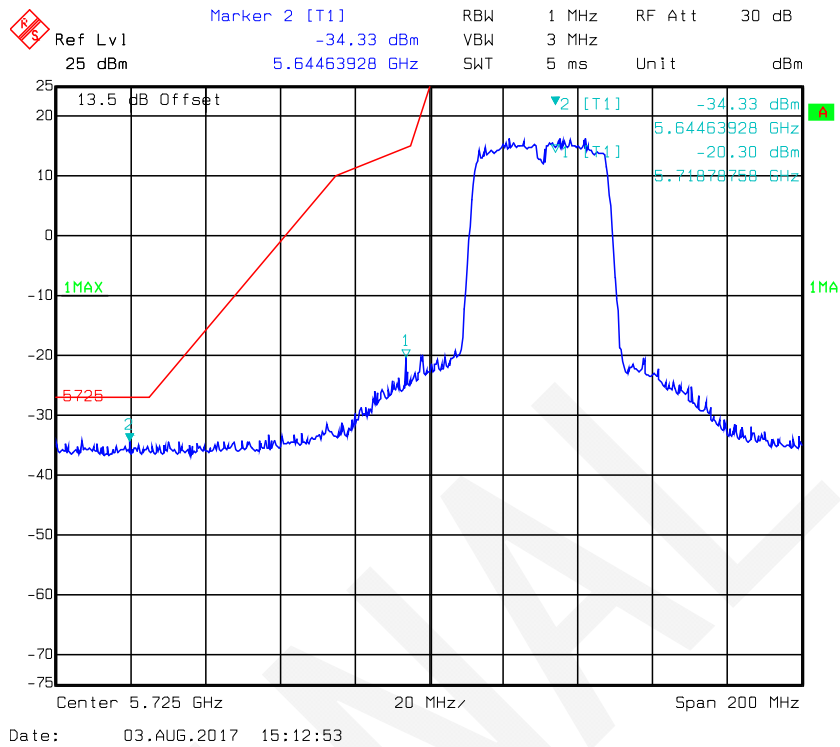
802.11ac40: Band Edge, Left Side, Antenna 0



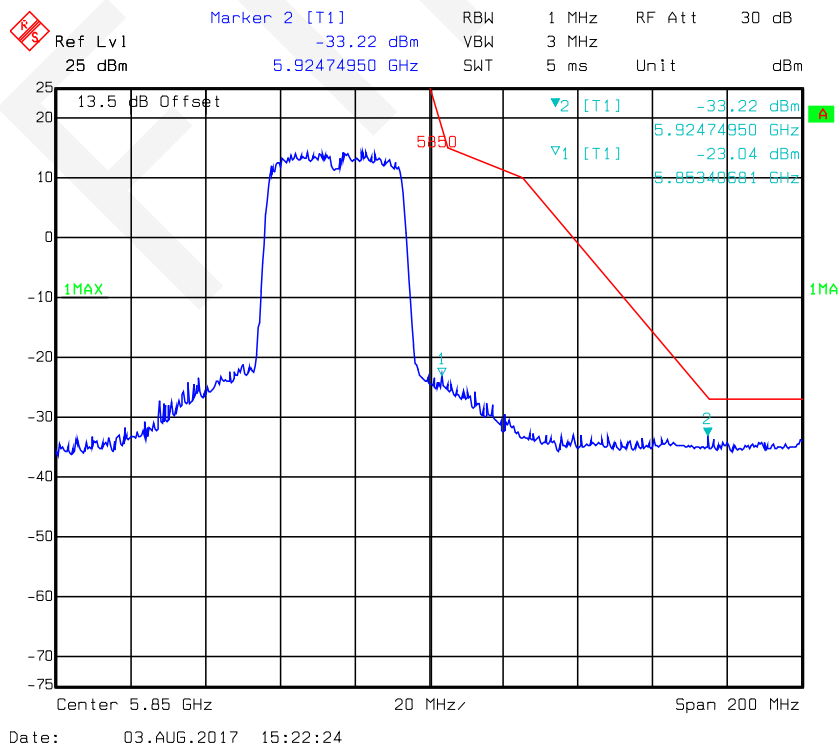
802.11ac40: Band Edge, Right Side, Antenna 0



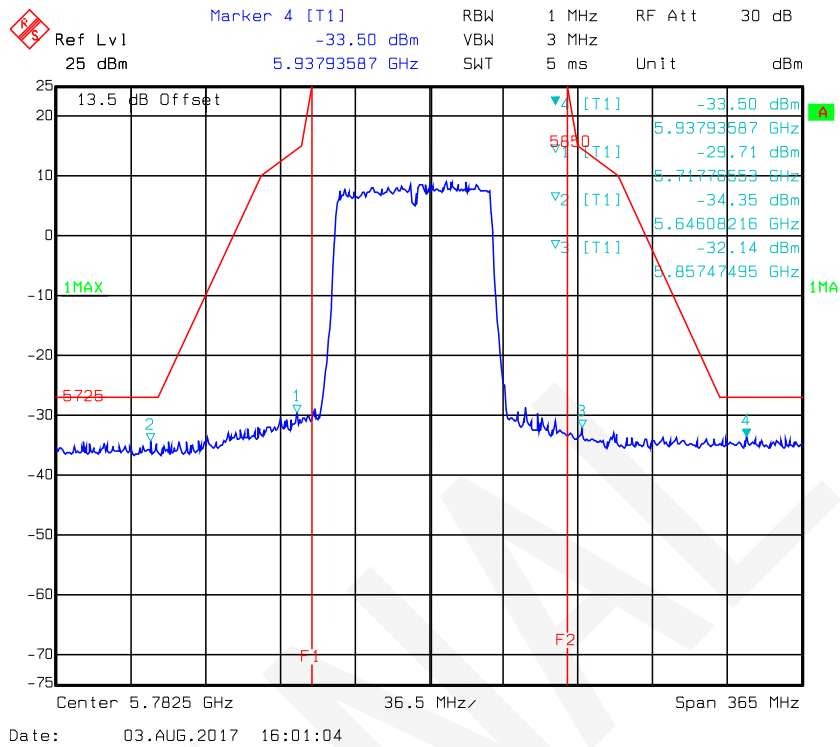
802.11ac40: Band Edge, Left Side, Antenna 1



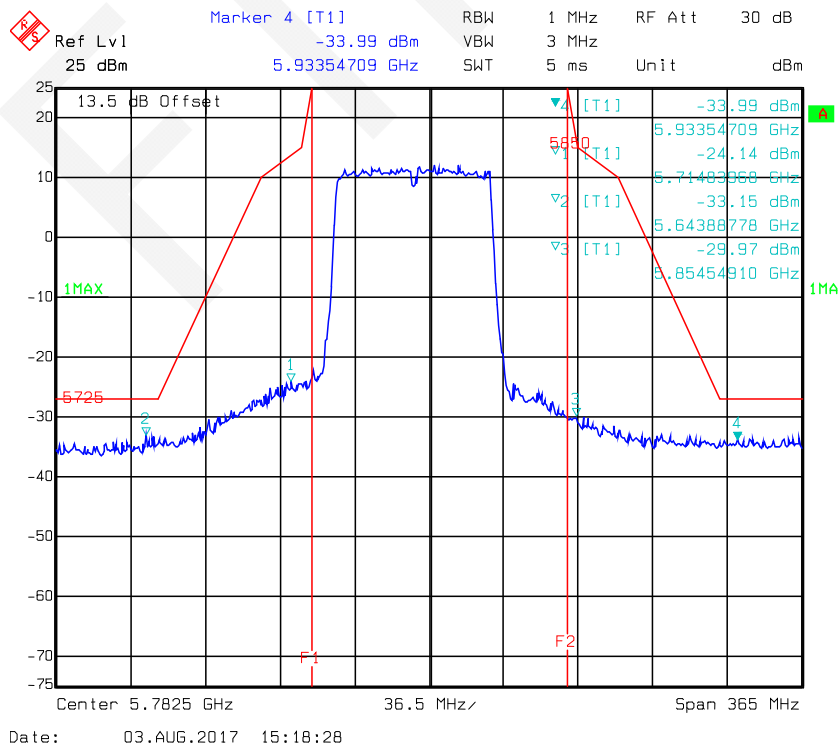
802.11ac40: Band Edge, Right Side, Antenna 1



802.11ac80: Band Edge, Antenna 0



802.11ac80: Band Edge, Antenna 1



FCC §15.407(a) (5) & (e) – 26dB & 6dB BANDWIDTH

Applicable Standard

(a) (5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3.
 - (A) 26dB Bandwidth
Set RBW = approximately 1% of the emission bandwidth.
Set the VBW > RBW. Detector= Peak. Trace mode = max hold. 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%.
 - (B) 6dB Bandwidth
Set RBW = 100 kHz. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
 - (C) 99% Occupied Bandwidth
The following procedure shall be used for measuring (99 %) power bandwidth:
 1. Set center frequency to the nominal EUT channel center frequency.
 2. Set span = 1.5 times to 5.0 times the OBW.
 3. Set RBW = 1 % to 5 % of the OBW
 4. Set VBW $\geq 3 \cdot$ RBW
 5. Use the 99 % power bandwidth function of the instrument.
4. Repeat above procedures until all frequencies measured were complete.

Test Data

Environmental Conditions

Temperature:	29 ~ 30 °C
Relative Humidity:	50 ~54 %
ATM Pressure:	94.5 ~ 94.8 kPa

* The testing was performed by Tom Tang on 2017-07-31 to 2017-08-03.

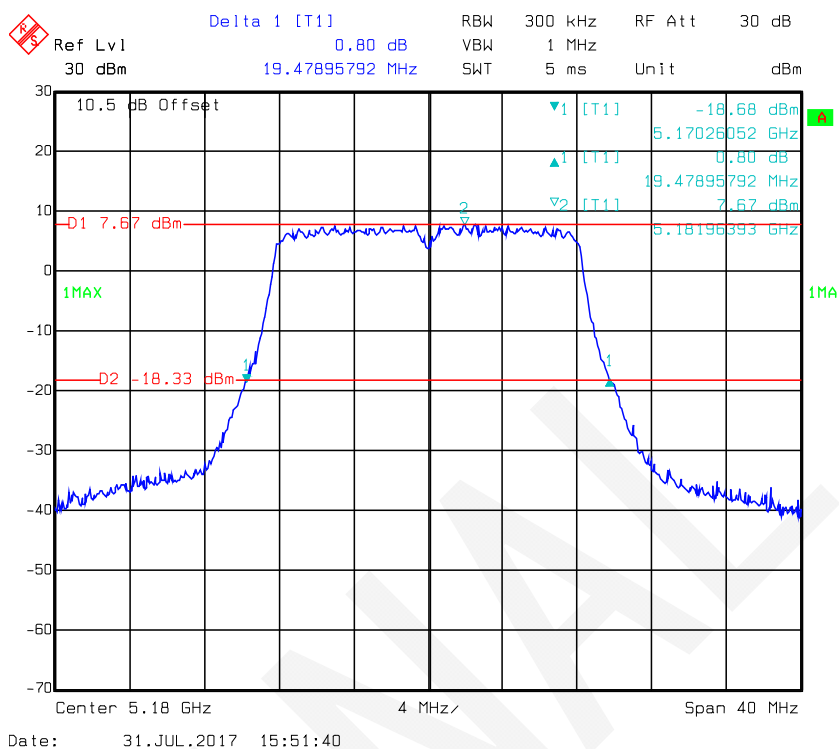
Test Result: Pass. Please refer to the following tables and plots.

Test mode: Transmitting

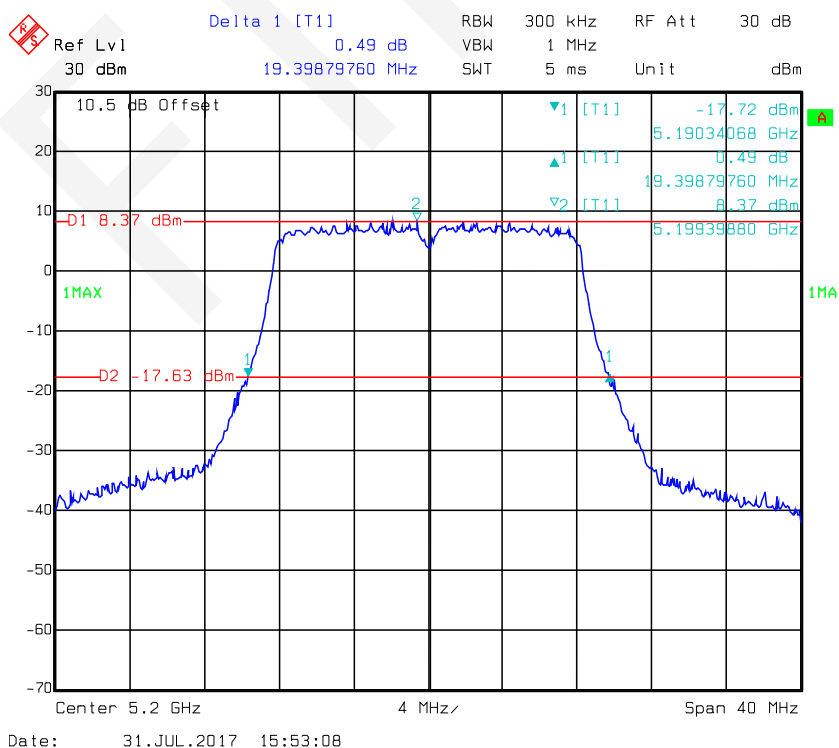
For 5150-5250 MHz:

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
			Antenna 0	Antenna 1	Antenna 0	Antenna 1
802.11a	Low	5180	19.48	19.64	16.51	16.51
	Middle	5200	19.40	19.56	16.59	16.51
	High	5240	19.40	19.48	16.59	16.59
802.11n-HT20	Low	5180	20.52	20.36	17.72	17.72
	Middle	5200	20.44	20.44	17.72	17.72
	High	5240	20.36	20.6	17.72	17.72
802.11n-HT40	Low	5190	39.28	39.28	36.07	36.07
	High	5230	39.28	39.28	36.07	36.07
802.11ac20	Low	5180	20.44	20.52	17.72	17.72
	Middle	5200	20.52	20.6	17.72	17.72
	High	5240	20.44	20.44	17.72	17.72
802.11ac40	Low	5190	39.12	39.44	36.23	36.23
	High	5230	39.12	39.28	36.07	36.07
802.11ac80	Middle	5210	83.69	84.01	75.99	75.99

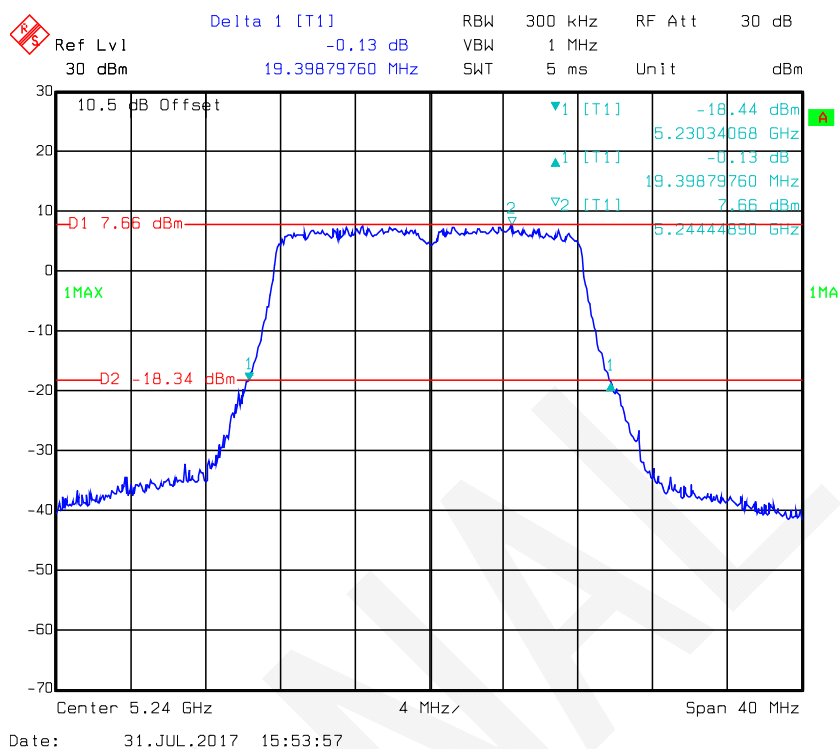
802.11a mode, 26 dB Bandwidth-5180 MHz, Antenna 0



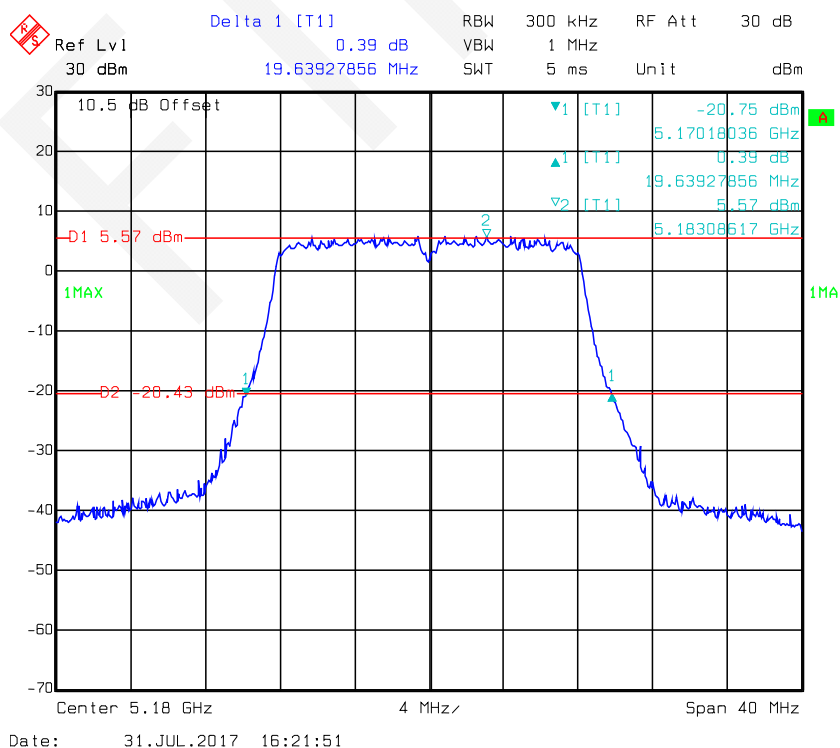
802.11a mode, 26 dB Bandwidth-5200 MHz, Antenna 0



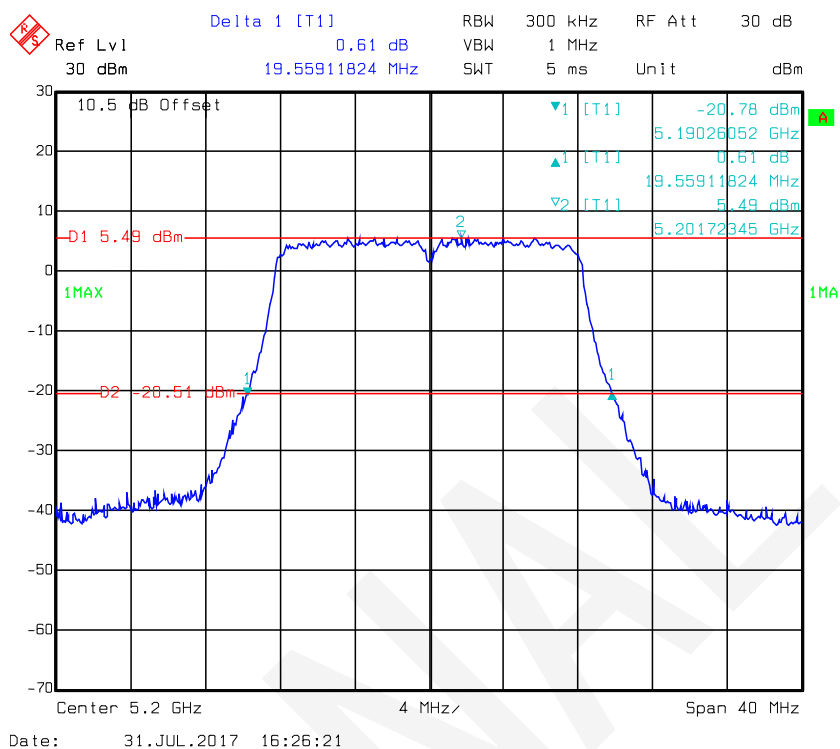
802.11a mode, 26 dB Bandwidth-5240 MHz, Antenna 0



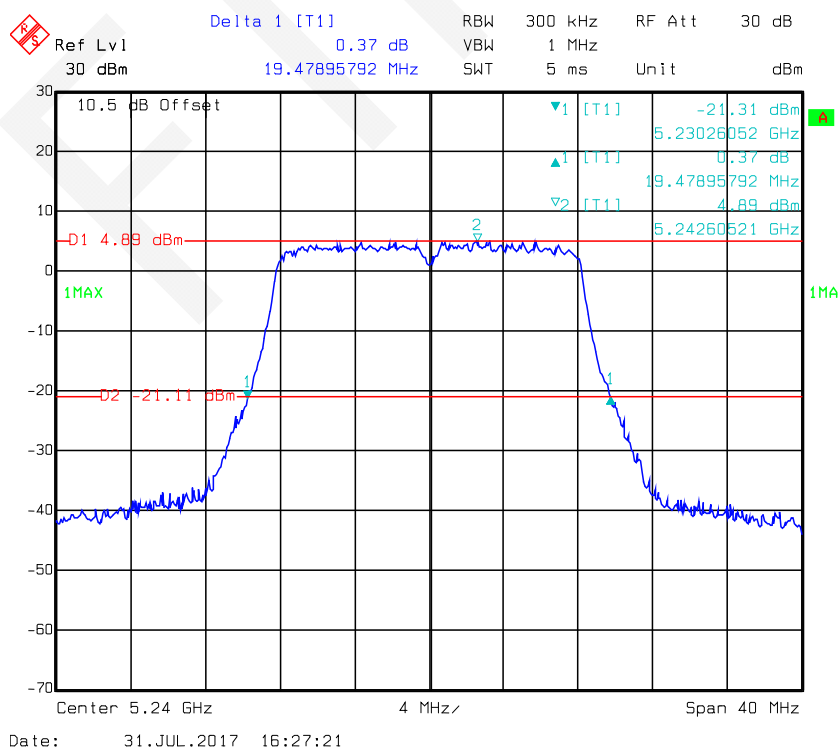
802.11a mode, 26 dB Bandwidth-5180 MHz, Antenna 1



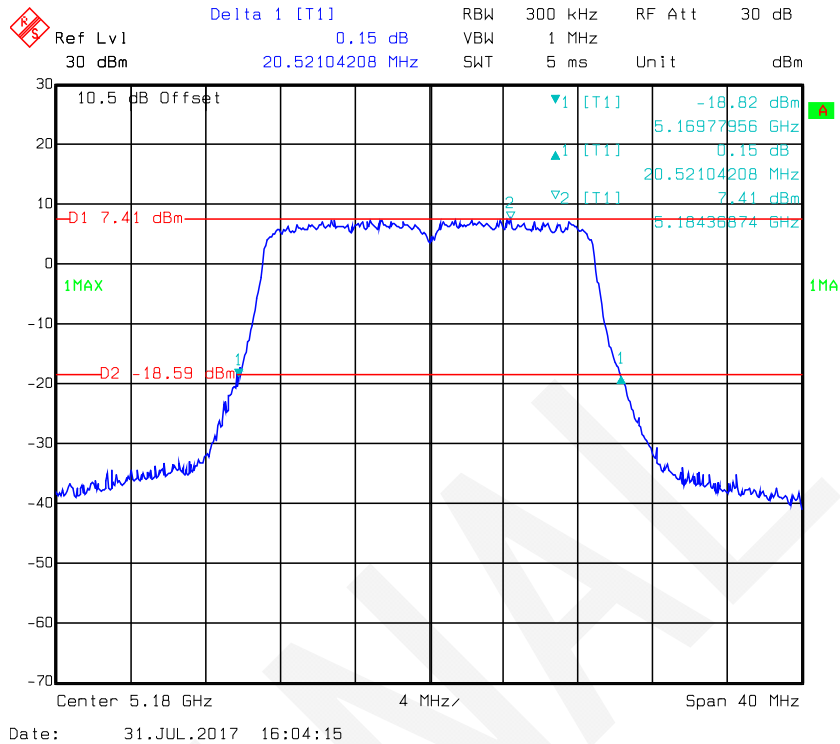
802.11a mode, 26 dB Bandwidth-5200 MHz, Antenna 1



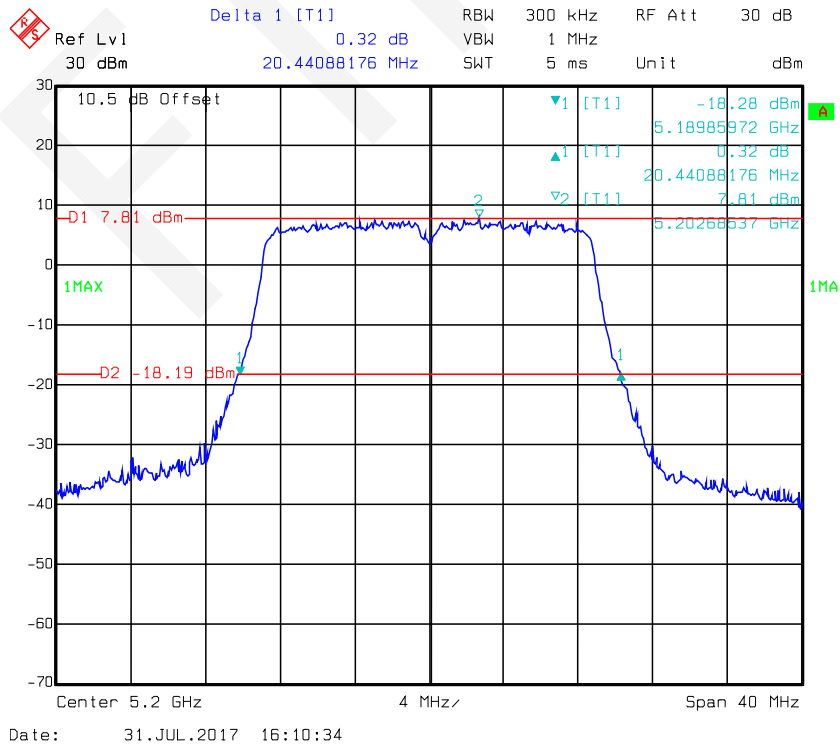
802.11a mode, 26 dB Bandwidth-5240 MHz, Antenna 1



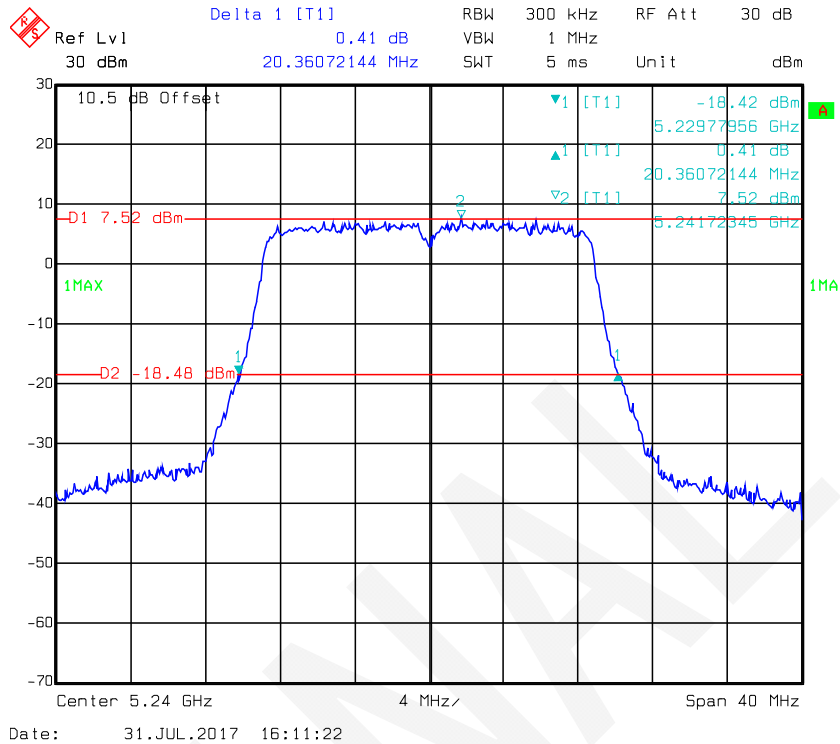
802.11n-HT20 mode, 26 dB Bandwidth-5180 MHz, Antenna 0



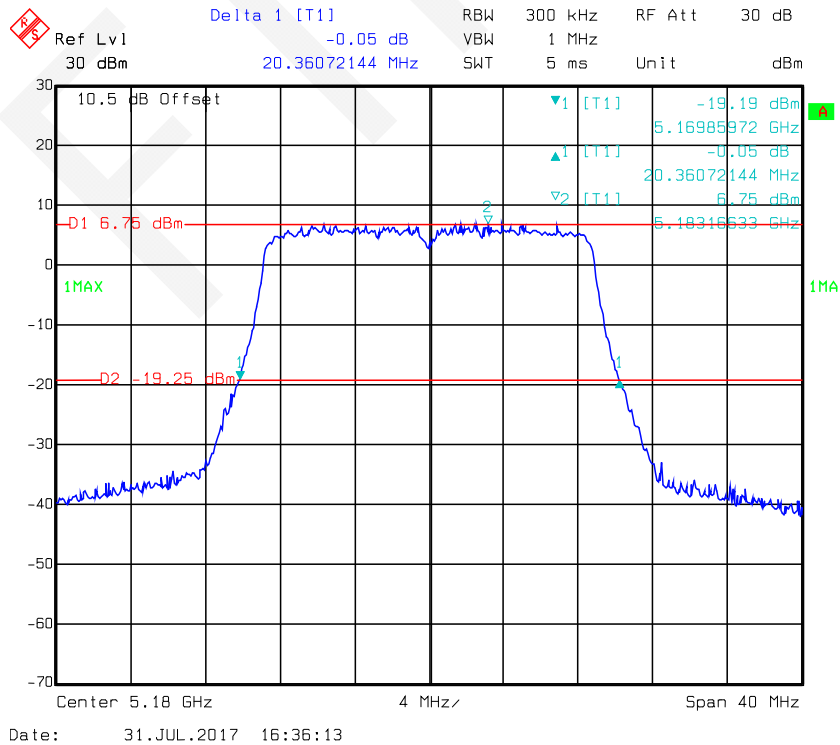
802.11n-HT20 mode, 26 dB Bandwidth-5200 MHz, Antenna 0



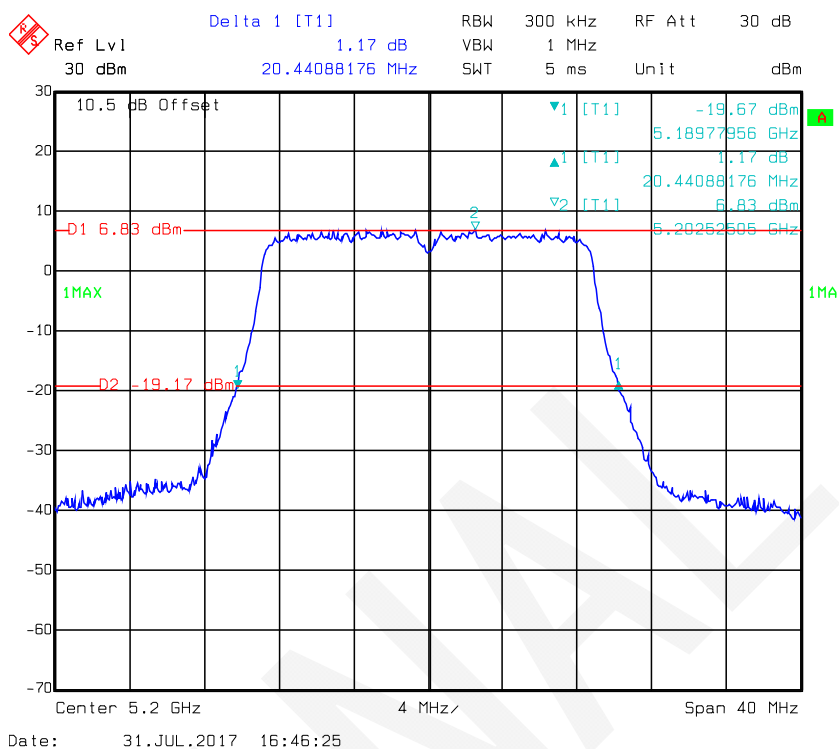
802.11n-HT20 mode, 26 dB Bandwidth-5240 MHz, Antenna 0



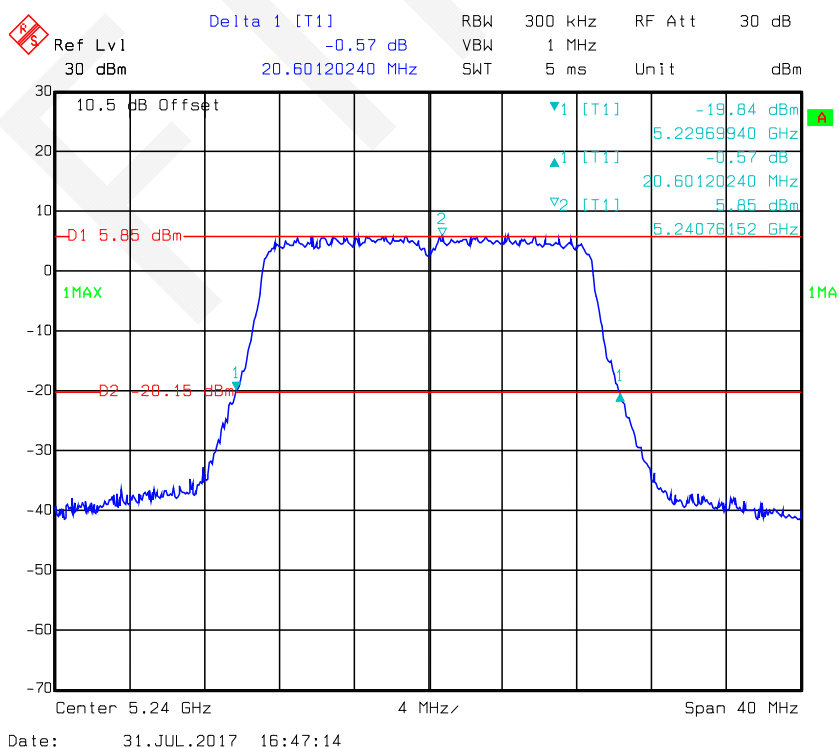
802.11n-HT20 mode, 26 dB Bandwidth-5180 MHz, Antenna 1



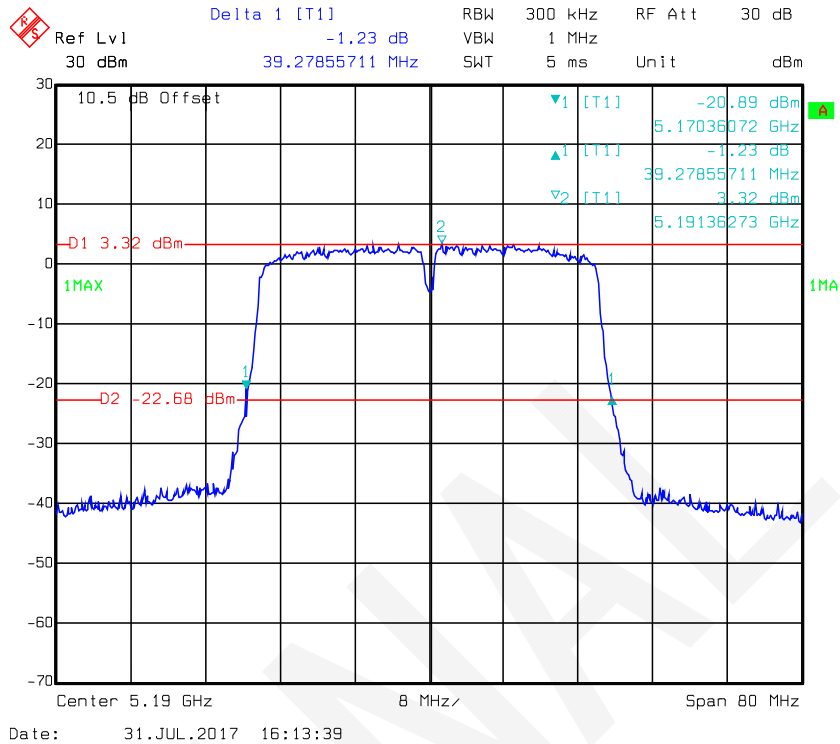
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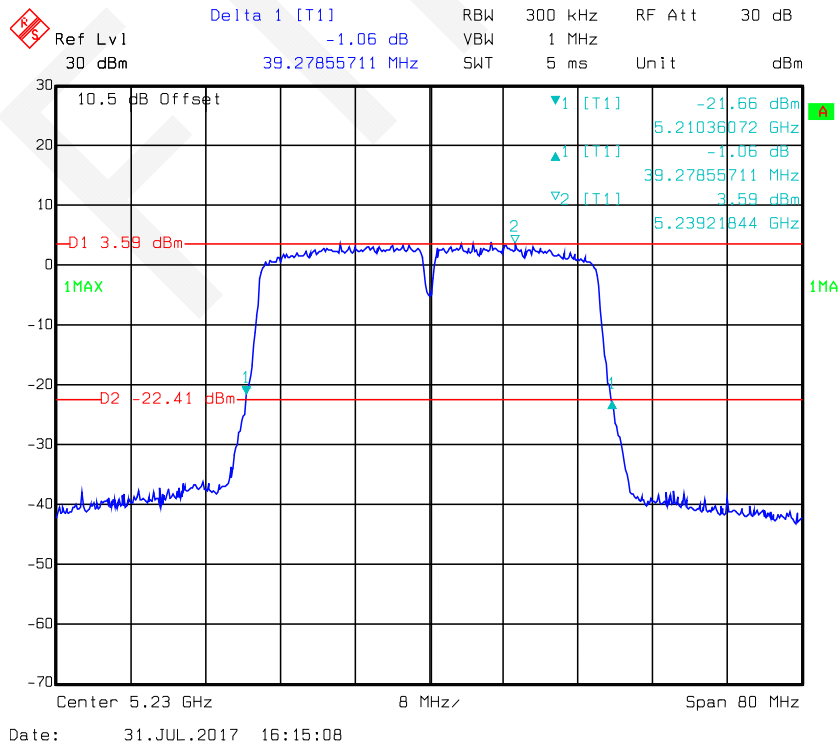
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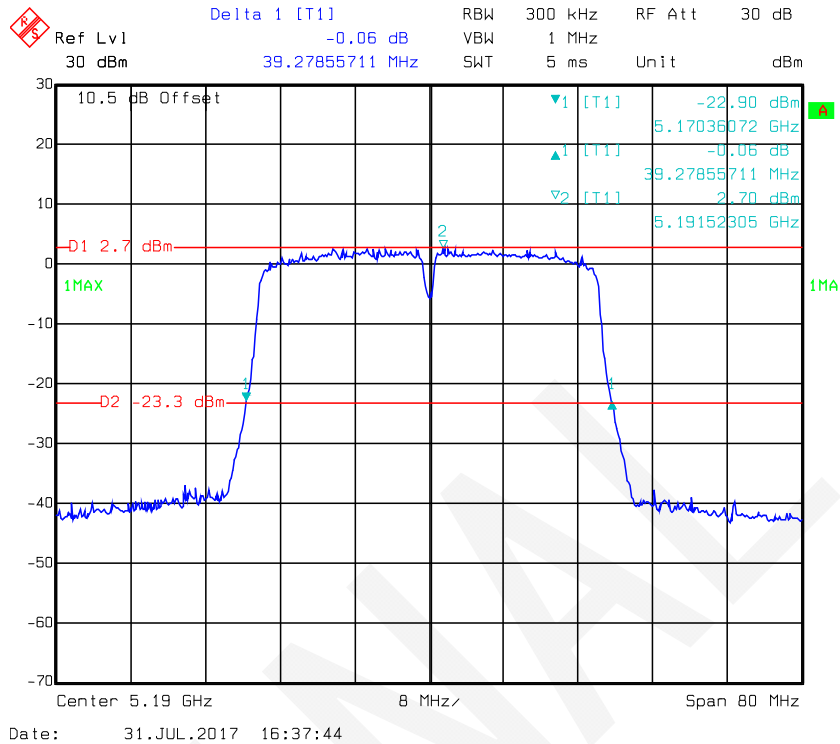
802.11n-HT40 mode, 26 dB Bandwidth-5190 MHz, Antenna 0



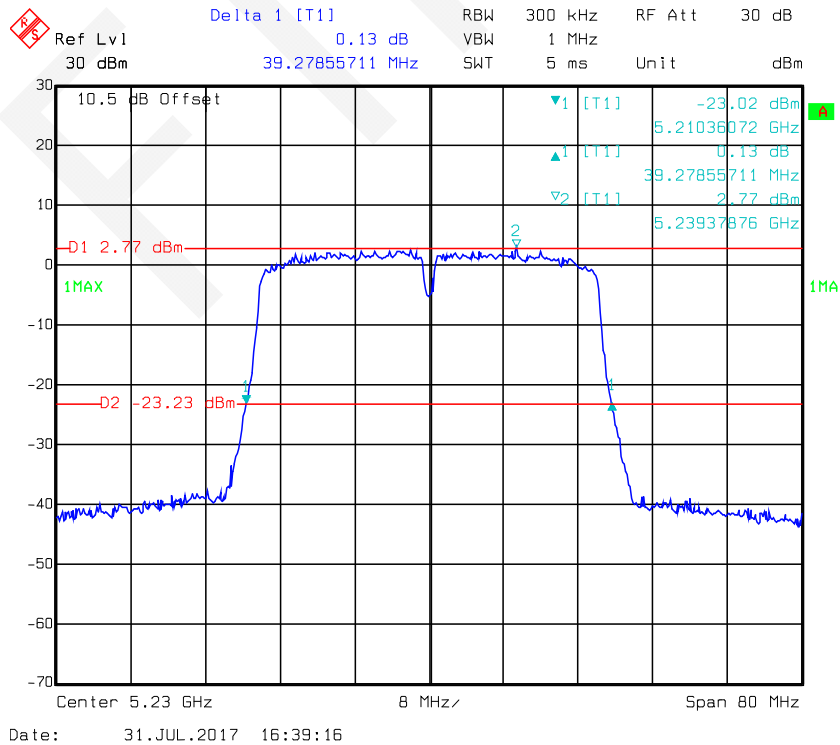
802.11n-HT40 mode, 26 dB Bandwidth-5230 MHz, Antenna 0



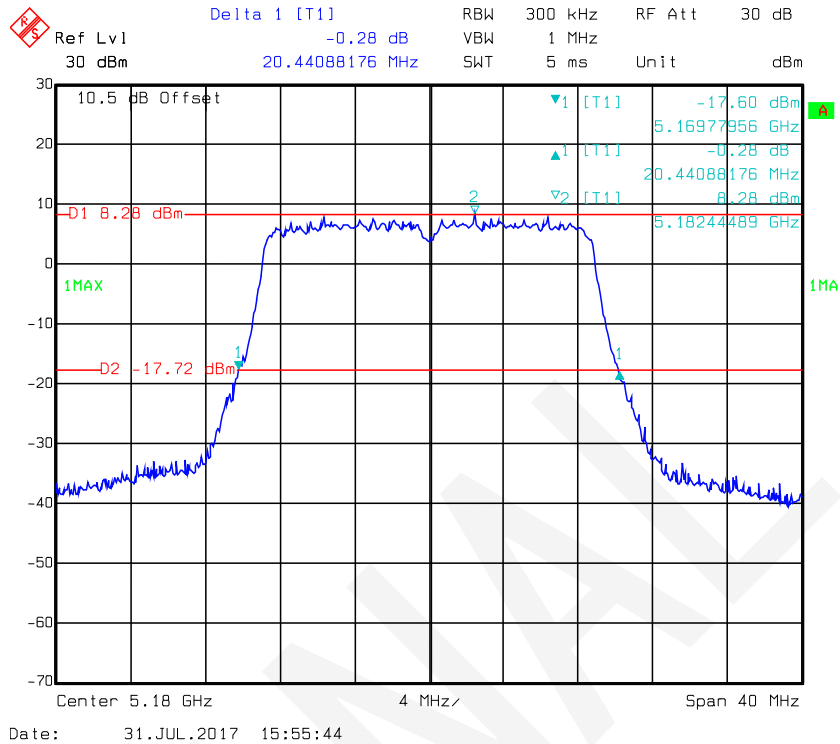
802.11n-HT40 mode, 26 dB Bandwidth-5190 MHz, Antenna 1



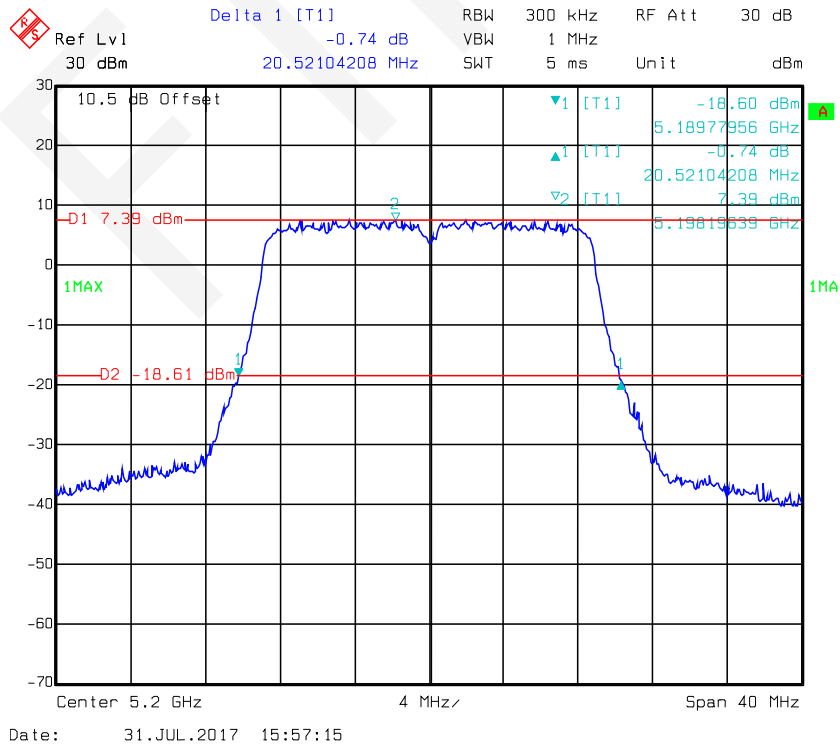
802.11n-HT40 mode, 26 dB Bandwidth-5230 MHz, Antenna 1



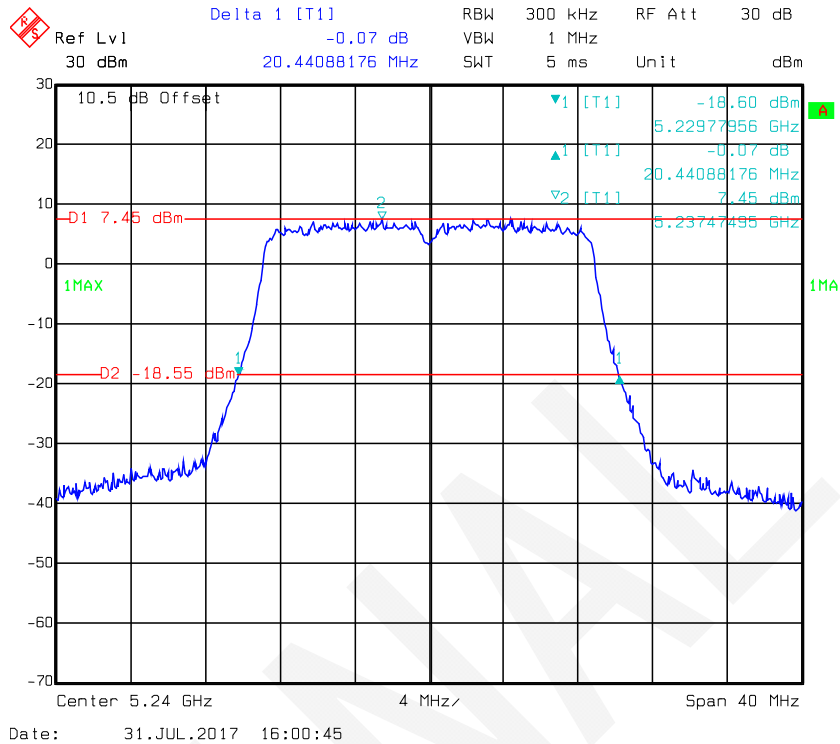
802.11ac20 mode, 26 dB Bandwidth-5180 MHz, Antenna 0



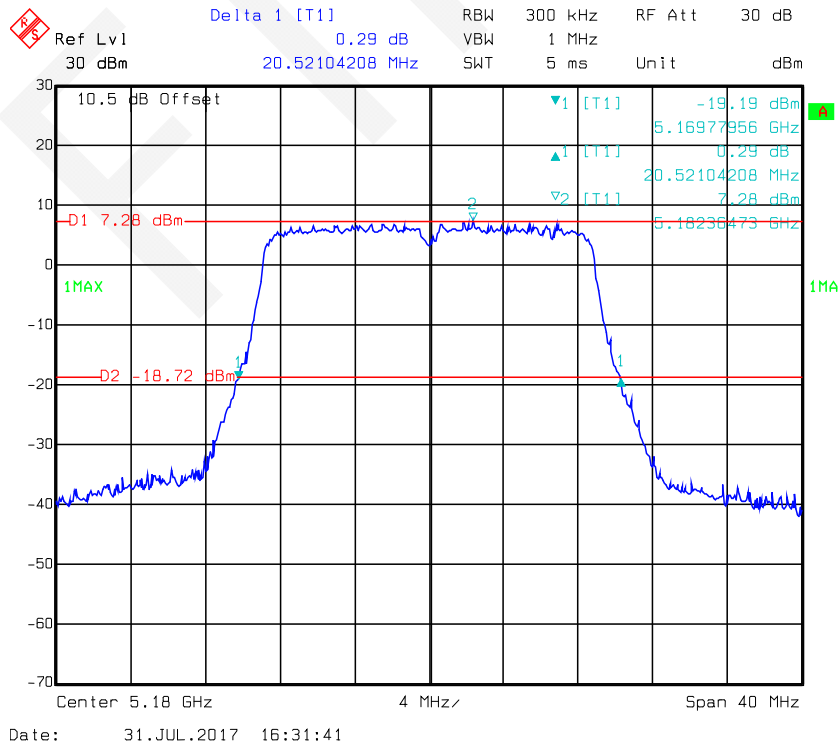
802.11ac20 mode, 26 dB Bandwidth-5200 MHz, Antenna 0



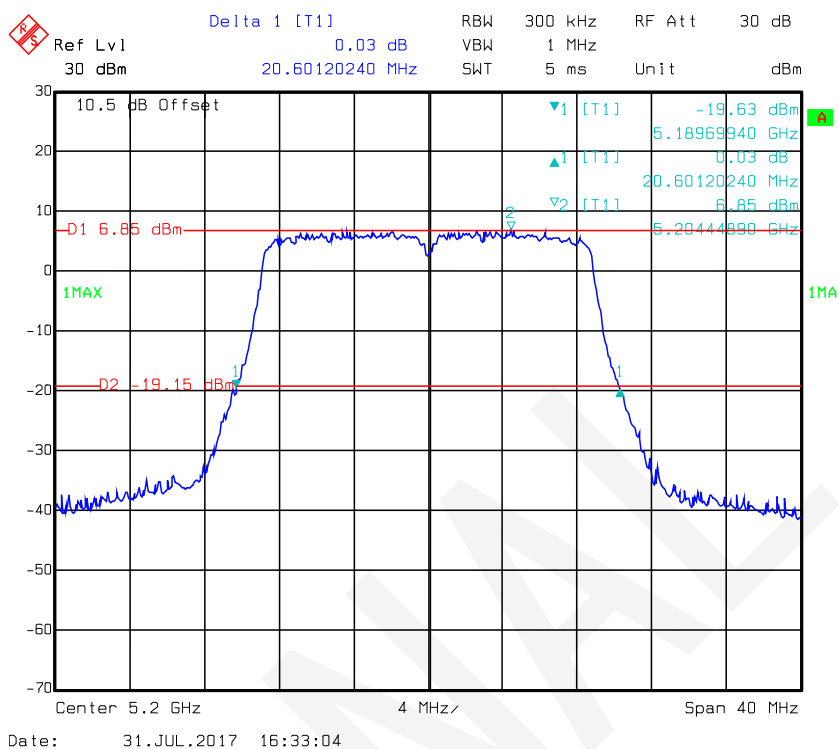
802.11ac20 mode, 26 dB Bandwidth-5240 MHz, Antenna 0



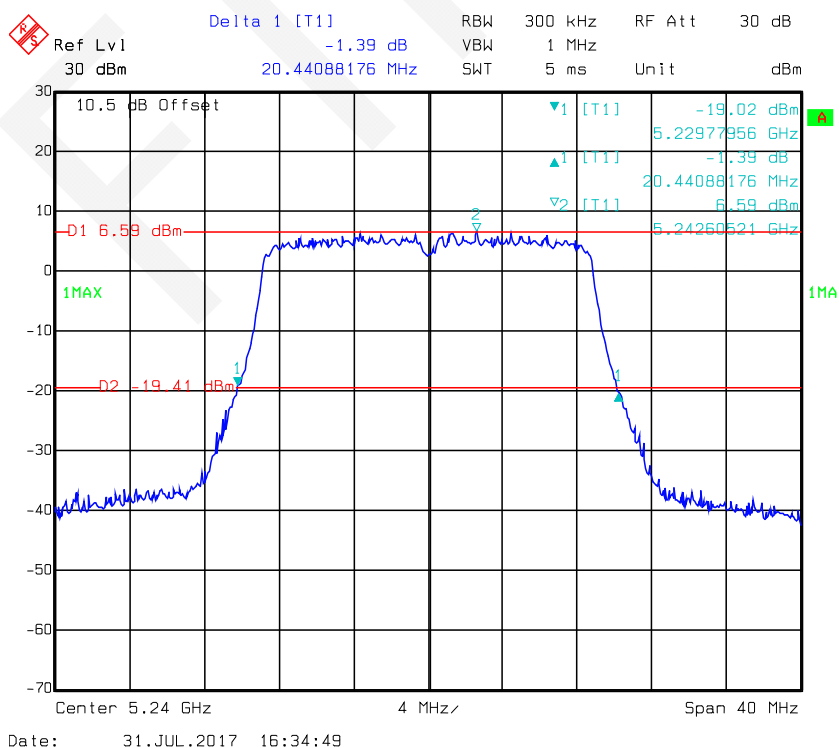
802.11ac20 mode, 26 dB Bandwidth-5180 MHz, Antenna 1



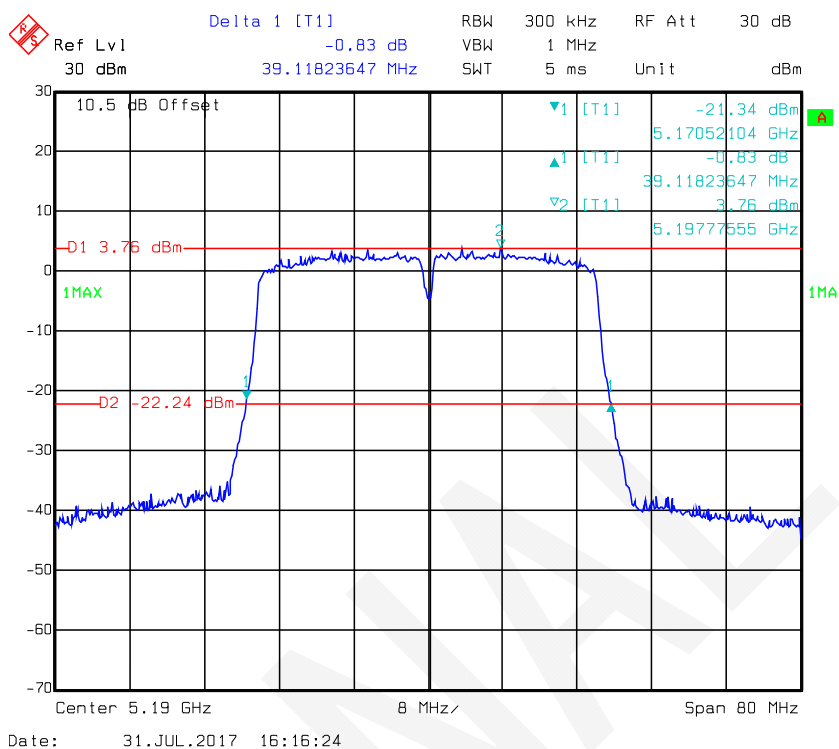
802.11ac20 mode, 26 dB Bandwidth-5200 MHz, Antenna 1



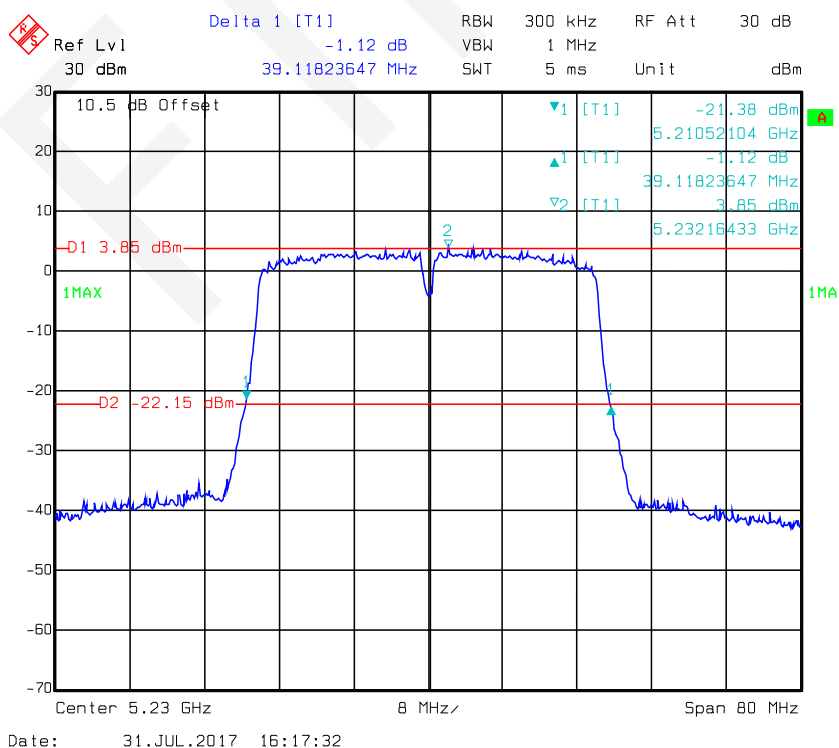
802.11ac20 mode, 26 dB Bandwidth-5240 MHz, Antenna 1



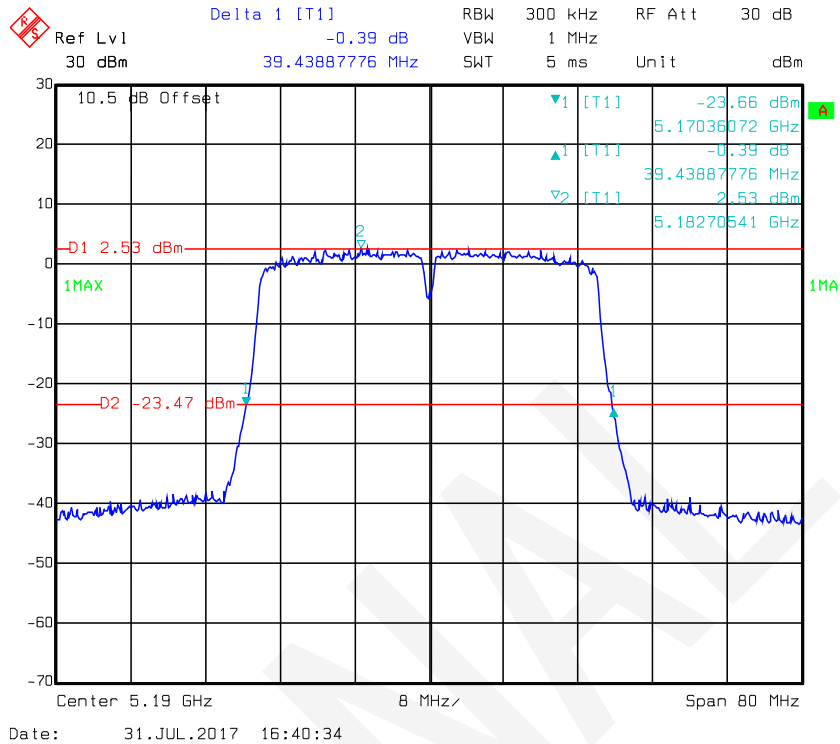
802.11ac40 mode, 26 dB Bandwidth-5190 MHz, Antenna 0



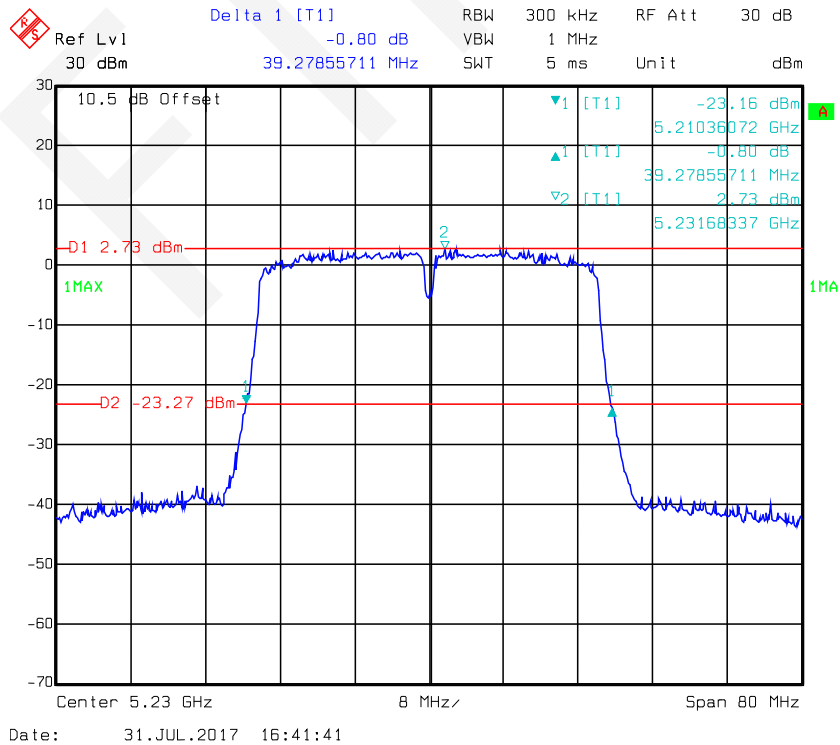
802.11ac40 mode, 26 dB Bandwidth-5230 MHz, Antenna 0



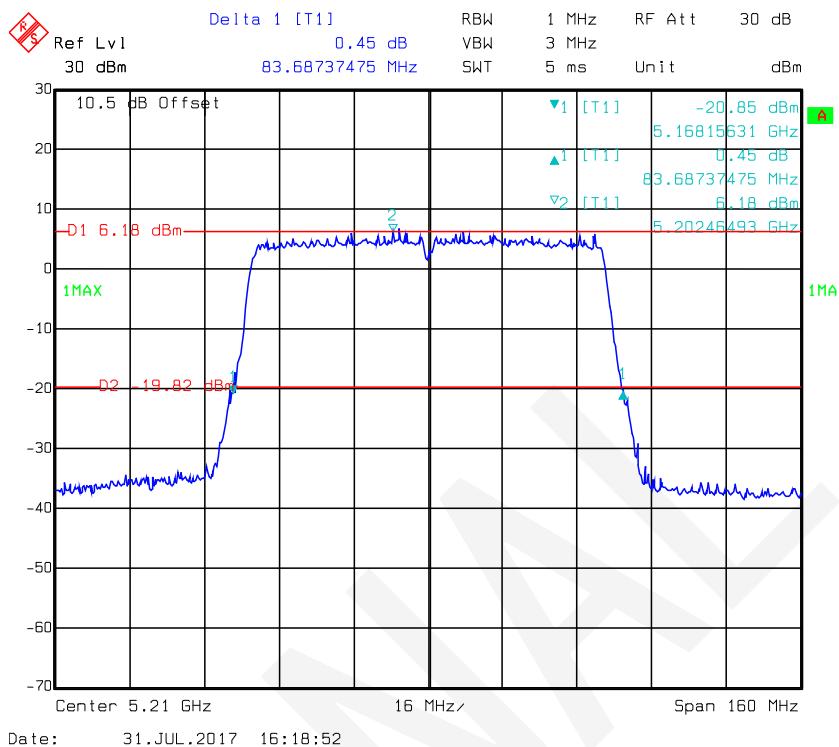
802.11ac40 mode, 26 dB Bandwidth-5190 MHz, Antenna 1



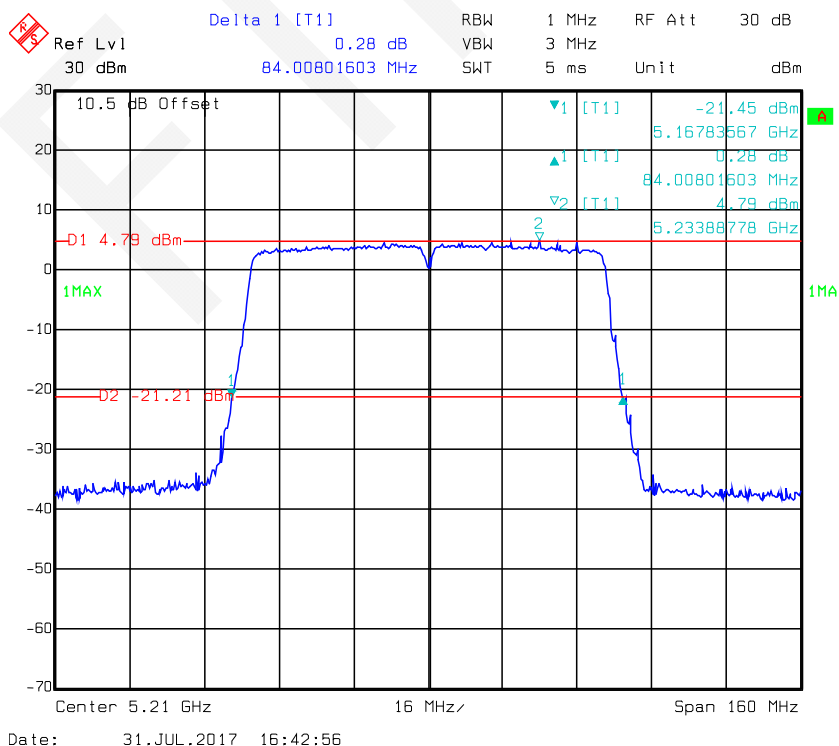
802.11ac40 mode, 26 dB Bandwidth-5230 MHz, Antenna 1



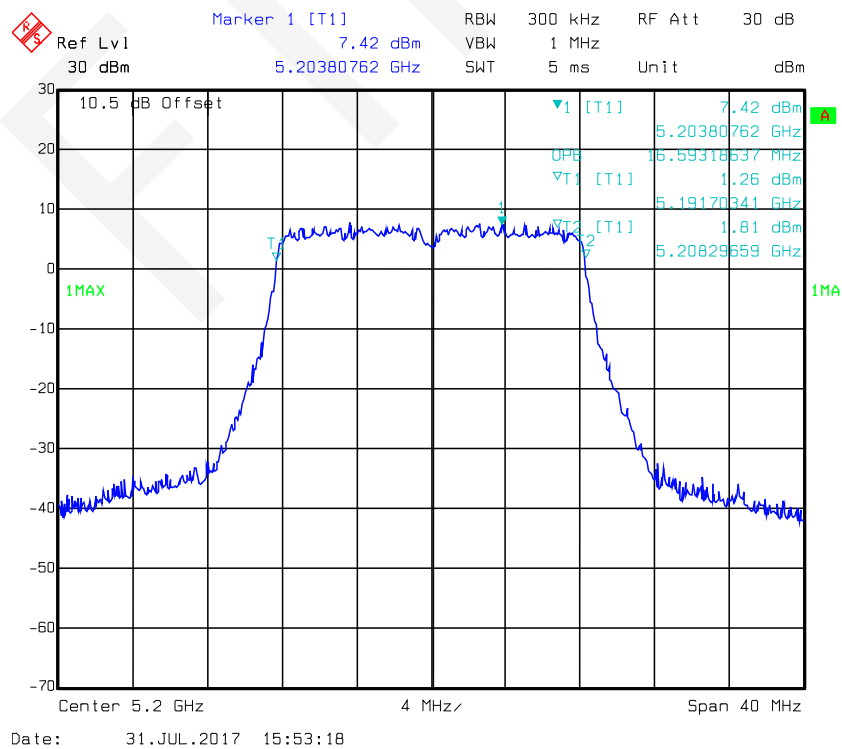
802.11ac80 mode, 26 dB Bandwidth-5210 MHz, Antenna 0



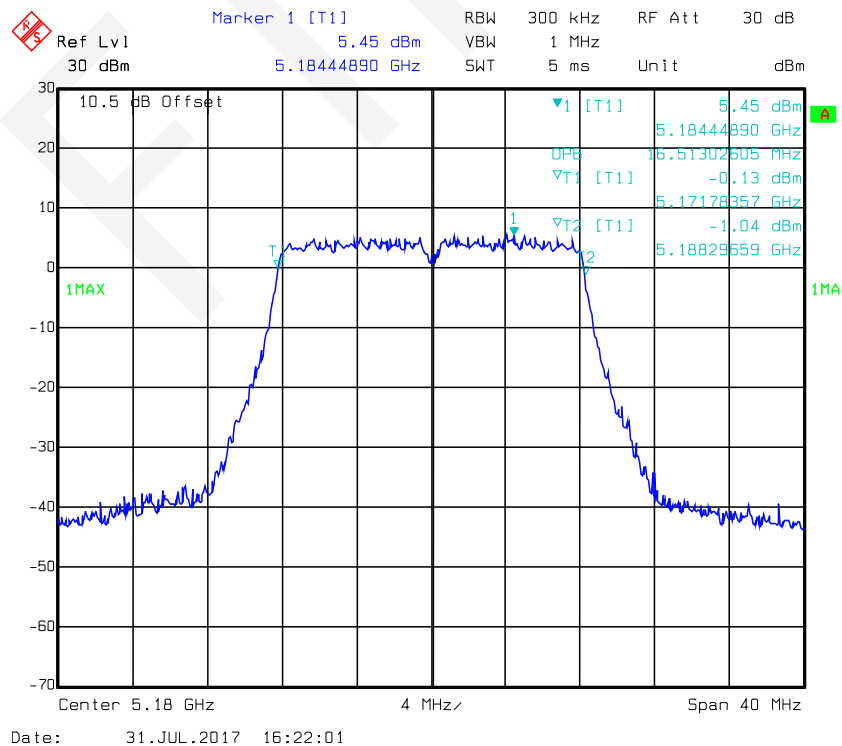
802.11ac80 mode, 26 dB Bandwidth-5210 MHz, Antenna 1



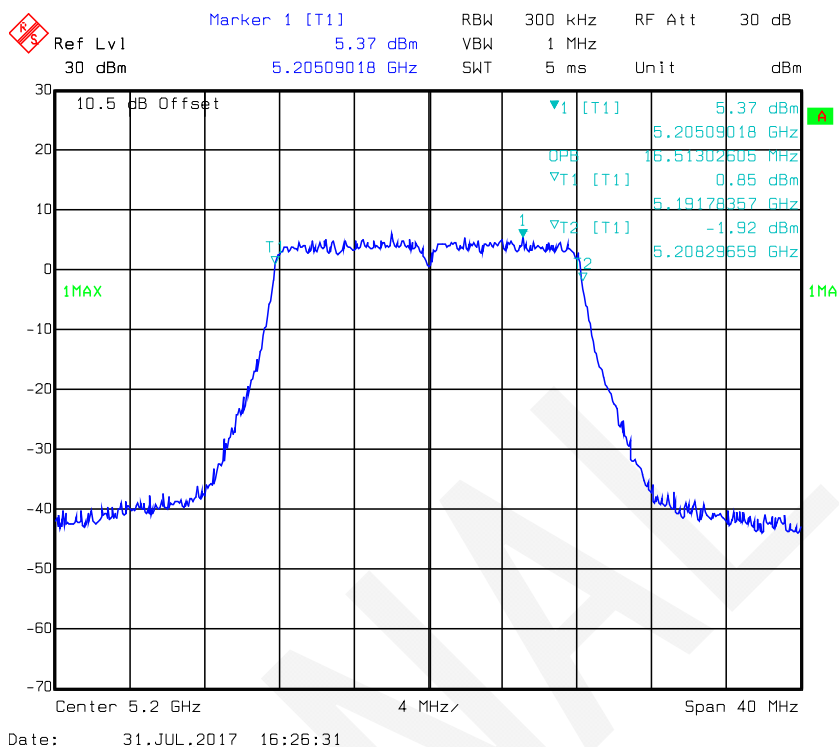
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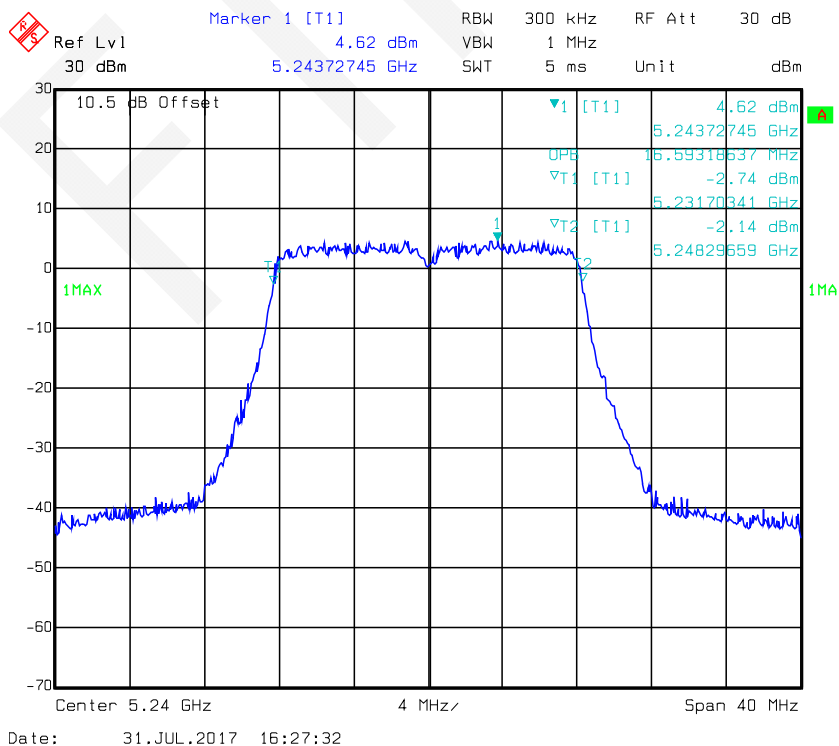
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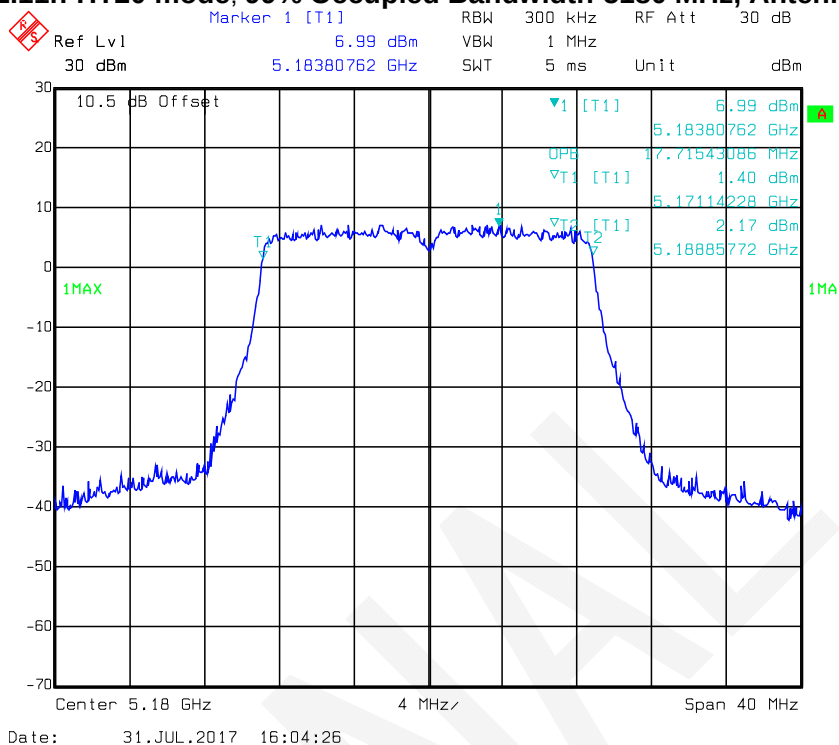
802.11a mode, 99% Occupied Bandwidth -5200 MHz, Antenna 1



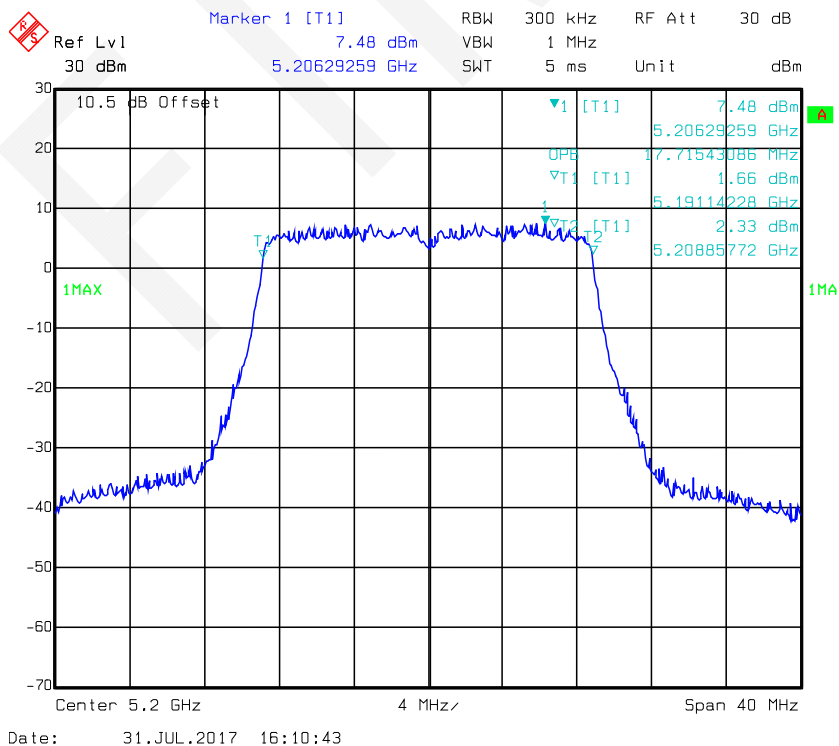
802.11a mode, 99% Occupied Bandwidth -5240 MHz, Antenna 1



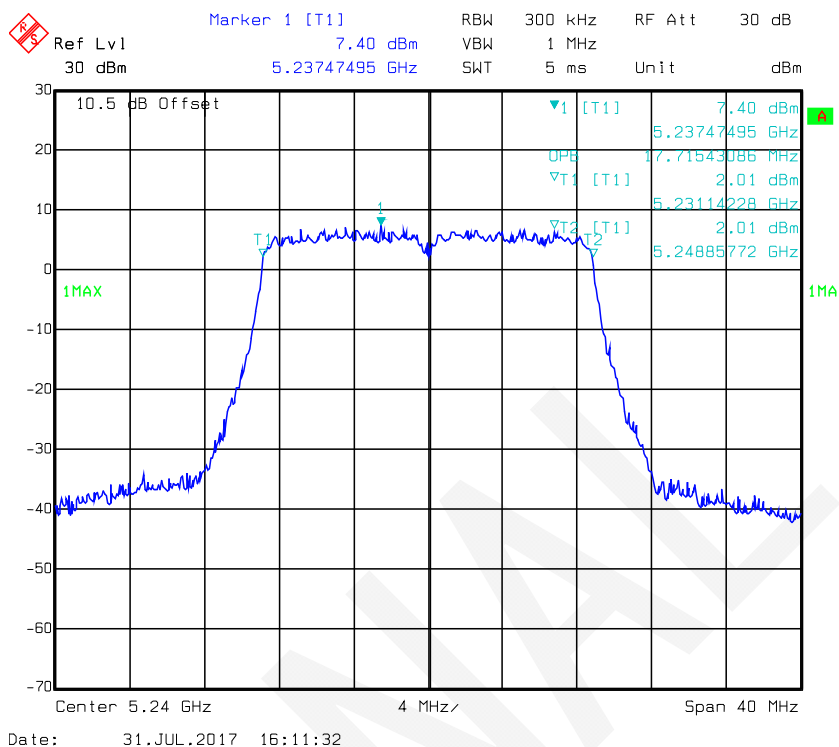
802.11n-HT20 mode, 99% Occupied Bandwidth-5180 MHz, Antenna 0



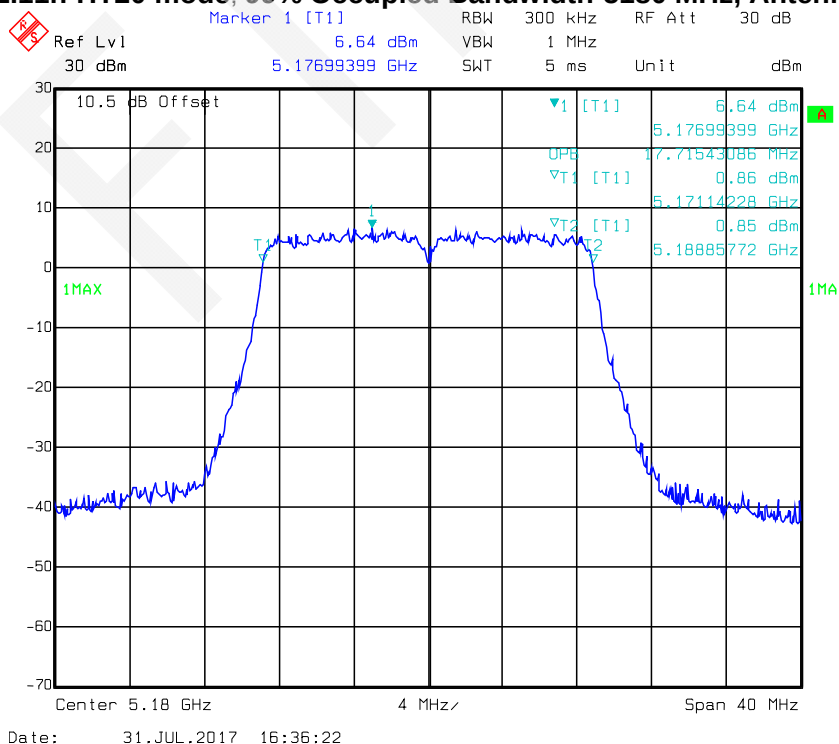
802.11n-HT20 mode, 99% Occupied Bandwidth -5200 MHz, Antenna 0



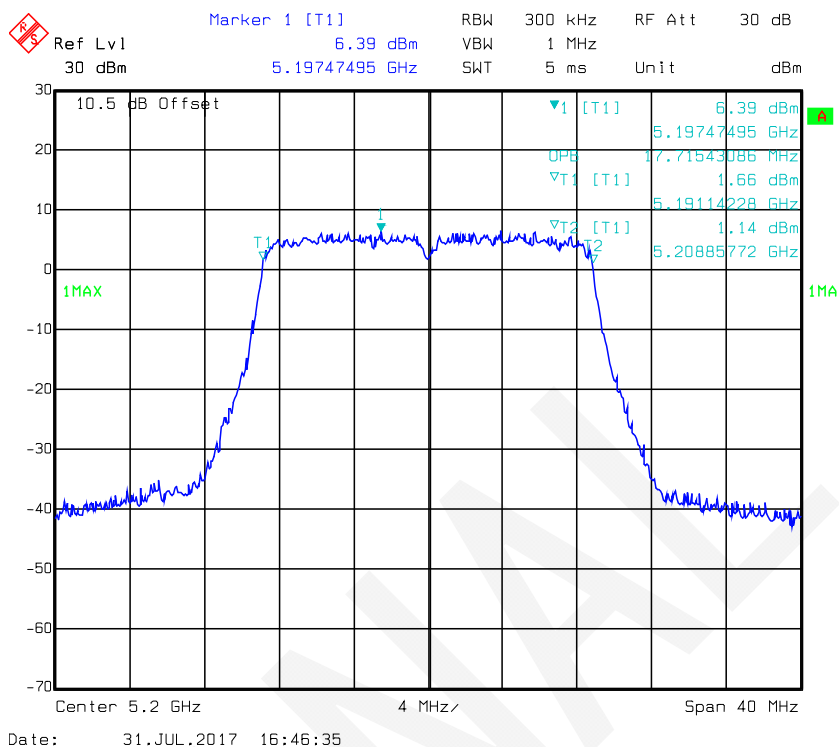
802.11n-HT20 mode, 99% Occupied Bandwidth -5240 MHz, Antenna 0



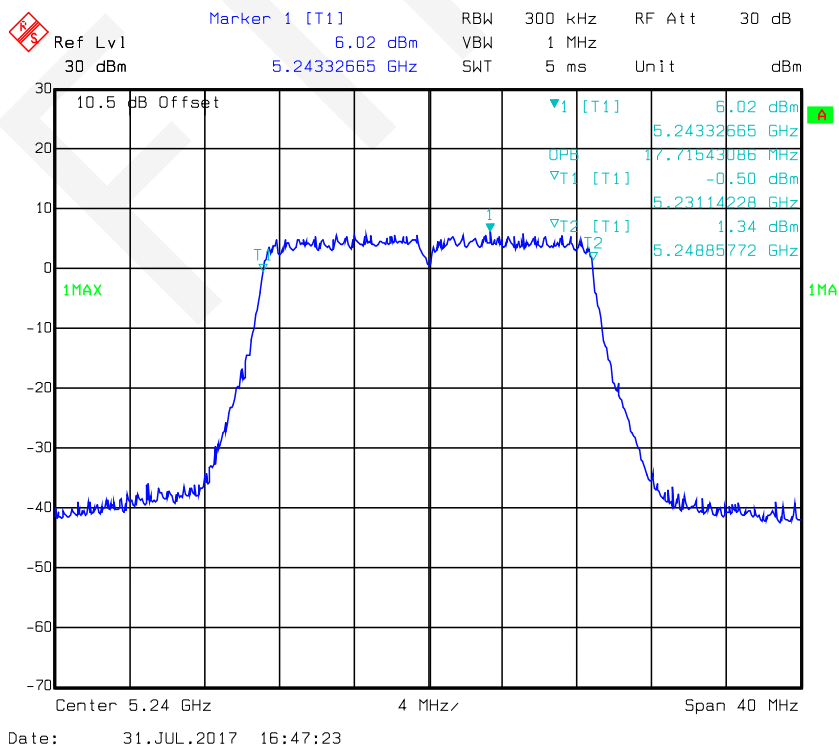
802.11n-HT20 mode, 99% Occupied Bandwidth-5180 MHz, Antenna 1



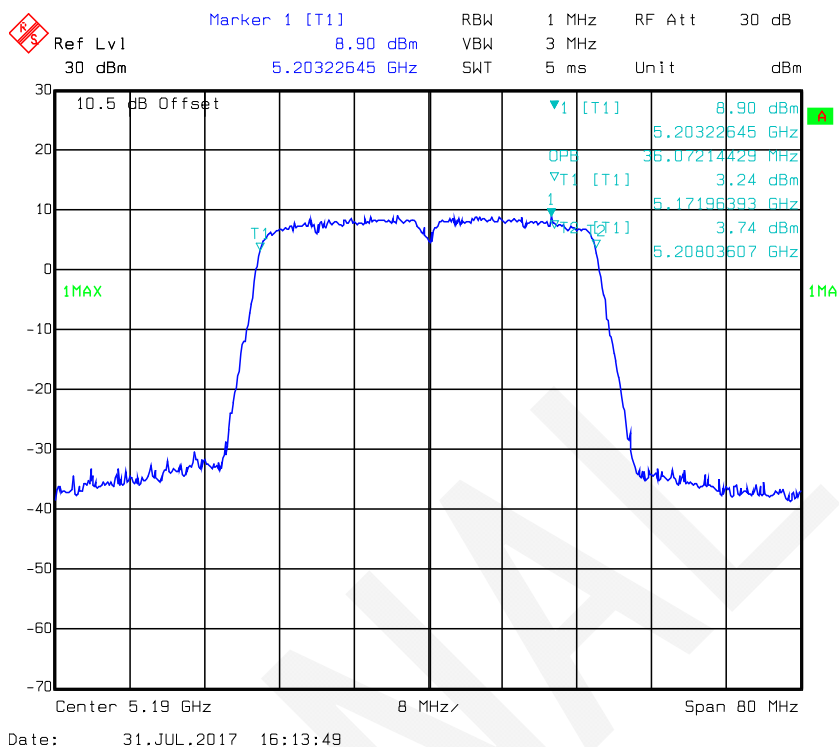
802.11n-HT20 mode, 99% Occupied Bandwidth -5200 MHz, Antenna 1



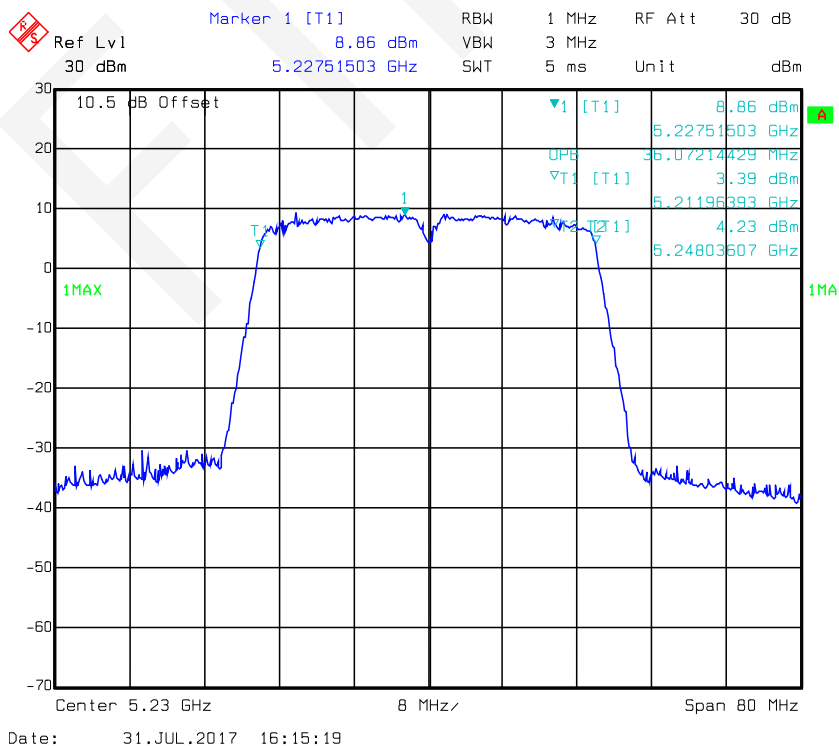
802.11n-HT20 mode, 99% Occupied Bandwidth -5240 MHz, Antenna 1



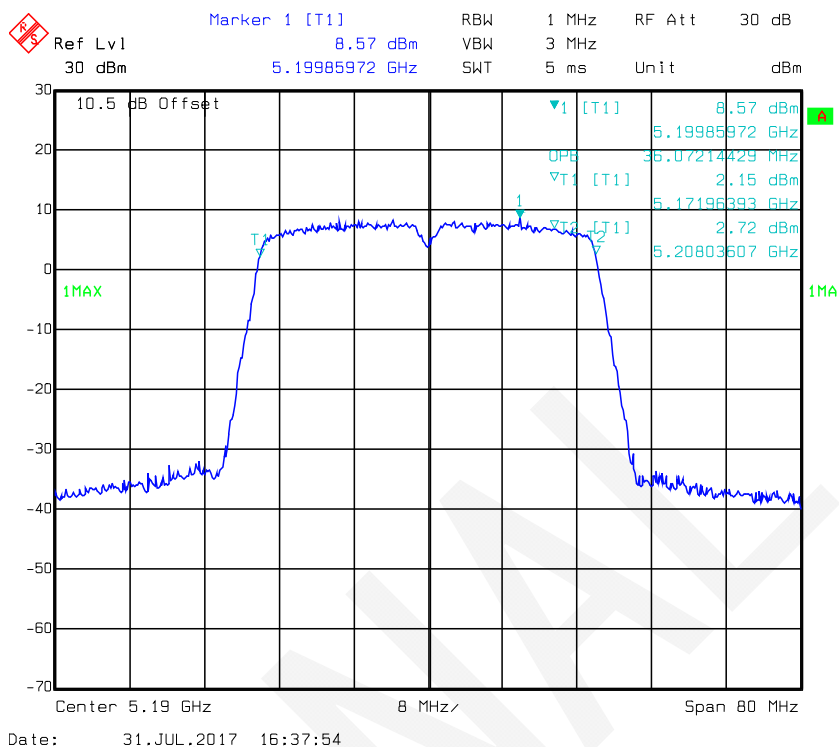
802.11n-HT40 mode, 99% Occupied Bandwidth-5190 MHz, Antenna 0



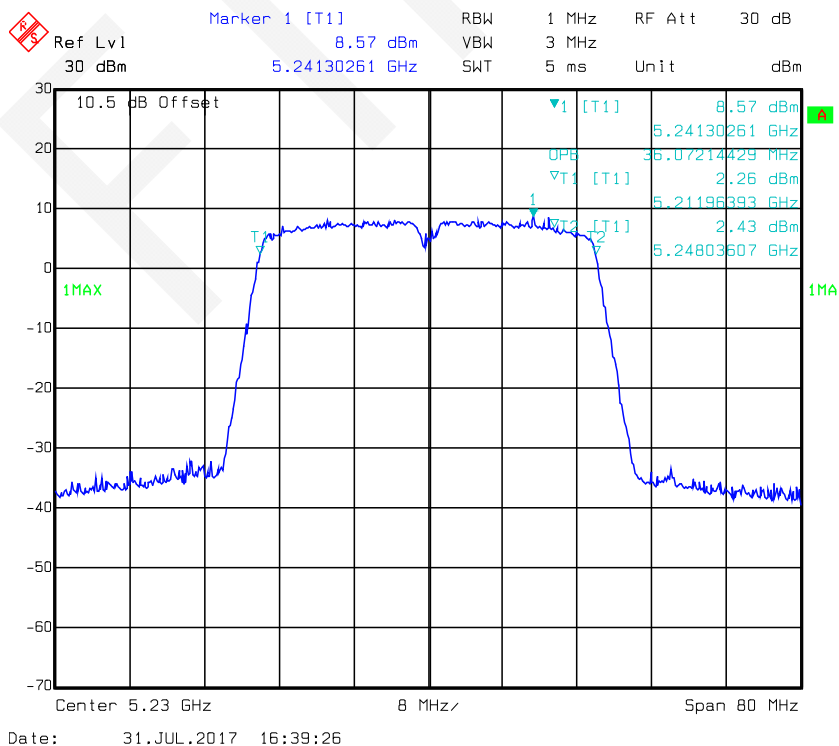
802.11n-HT40 mode, 99% Occupied Bandwidth-5230 MHz, Antenna 0



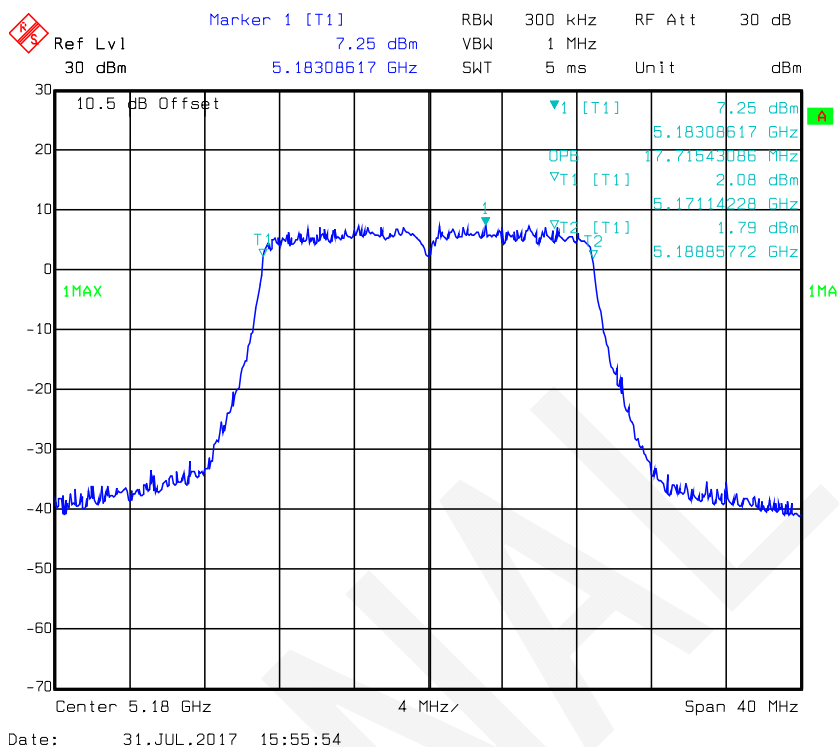
802.11n-HT40 mode, 99% Occupied Bandwidth-5190 MHz, Antenna 1



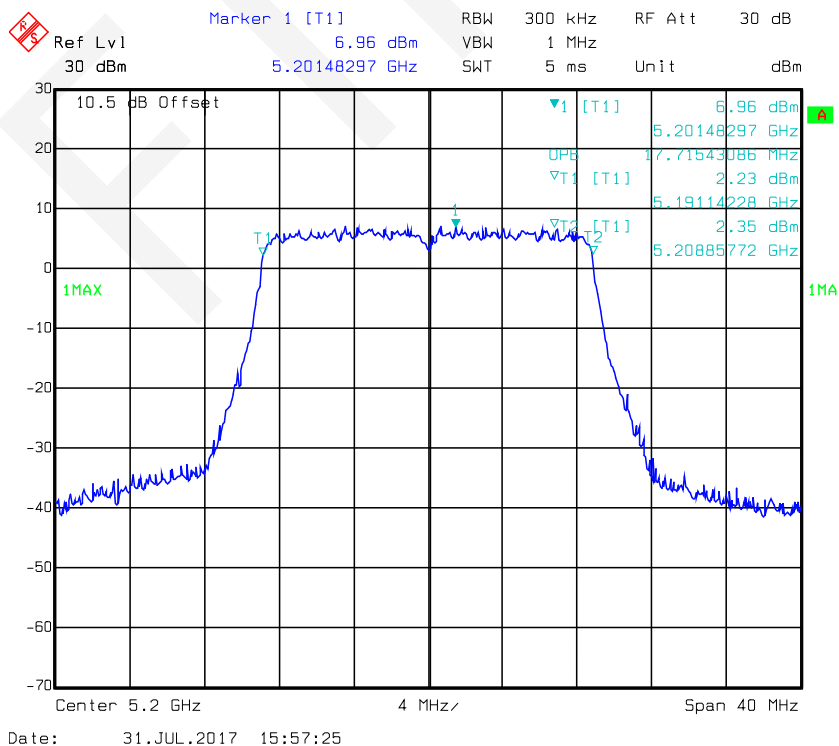
802.11n-HT40 mode, 99% Occupied Bandwidth-5230 MHz, Antenna 1



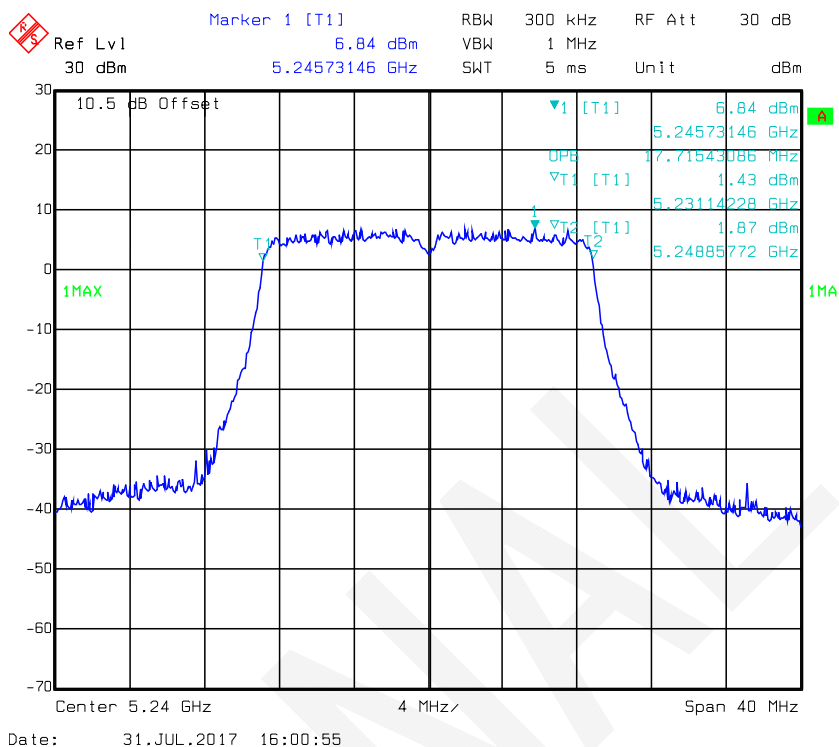
802.11ac20 mode, 99% Occupied Bandwidth-5180 MHz, Antenna 0



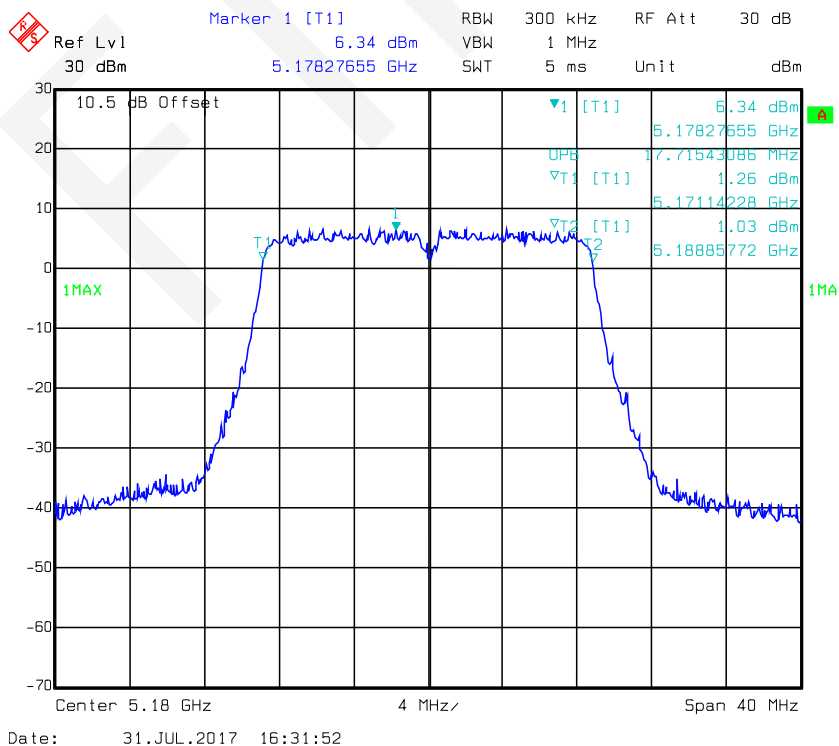
802.11ac20 mode, 99% Occupied Bandwidth-5200 MHz, Antenna 0



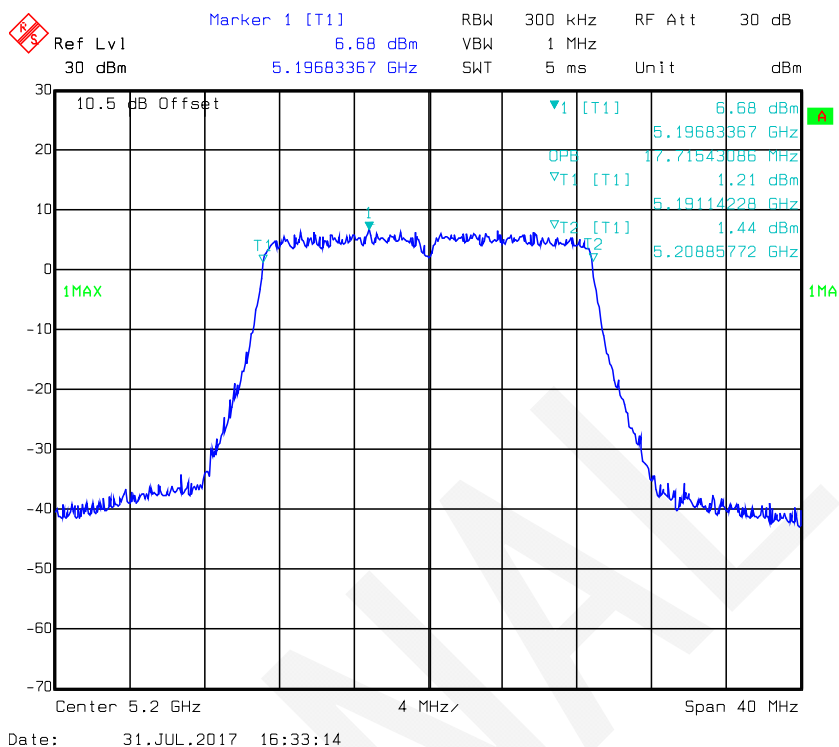
802.11ac20 mode, 99% Occupied Bandwidth-5240 MHz, Antenna 0



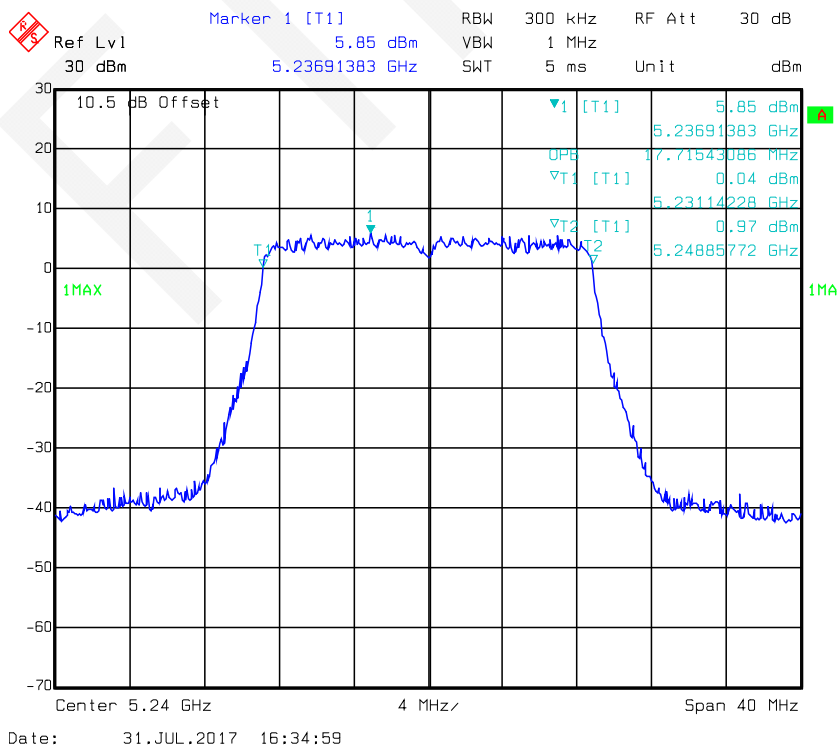
802.11ac20 mode, 99% Occupied Bandwidth-5180 MHz, Antenna 1



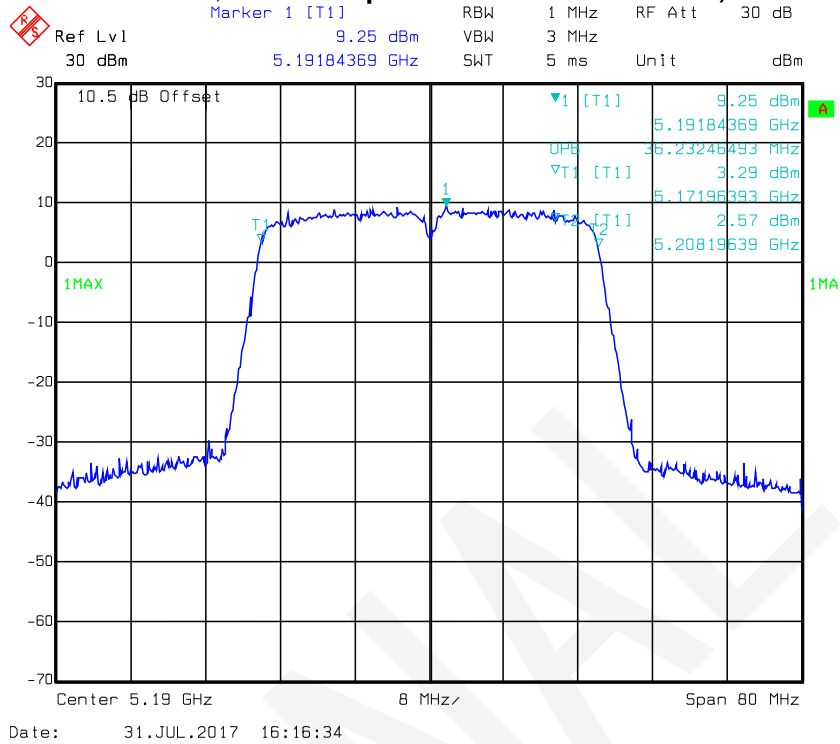
802.11ac20 mode, 99% Occupied Bandwidth-5200 MHz, Antenna 1



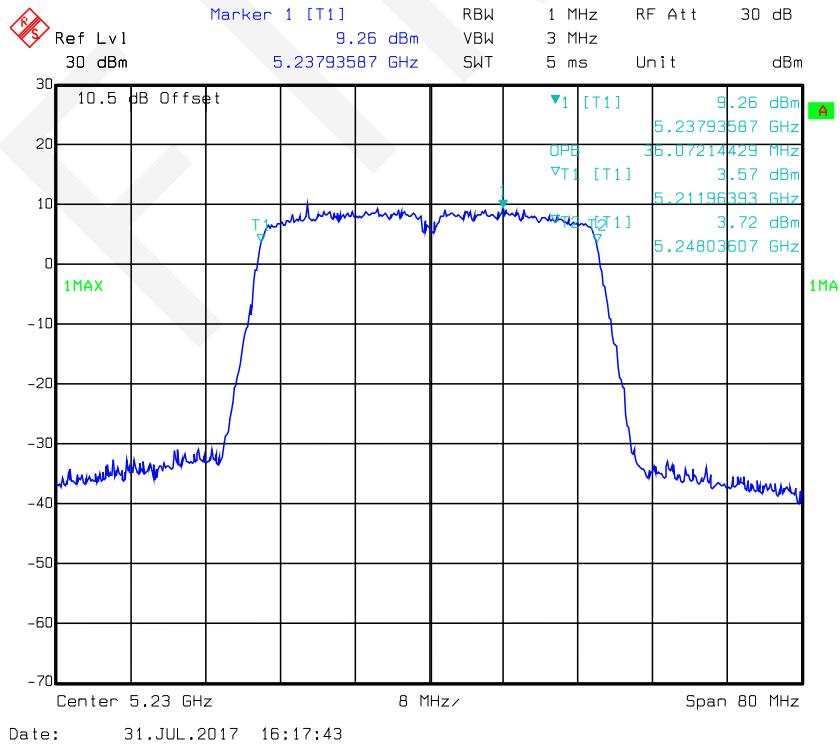
802.11ac20 mode, 99% Occupied Bandwidth-5240 MHz, Antenna 1



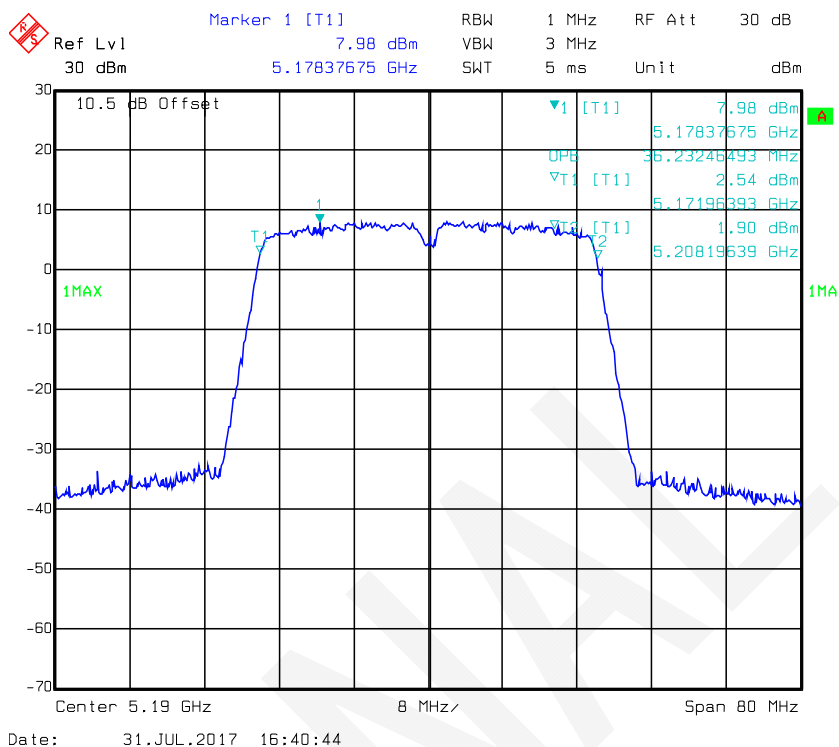
802.11ac40 mode, 99% Occupied Bandwidth-5190 MHz, Antenna 0



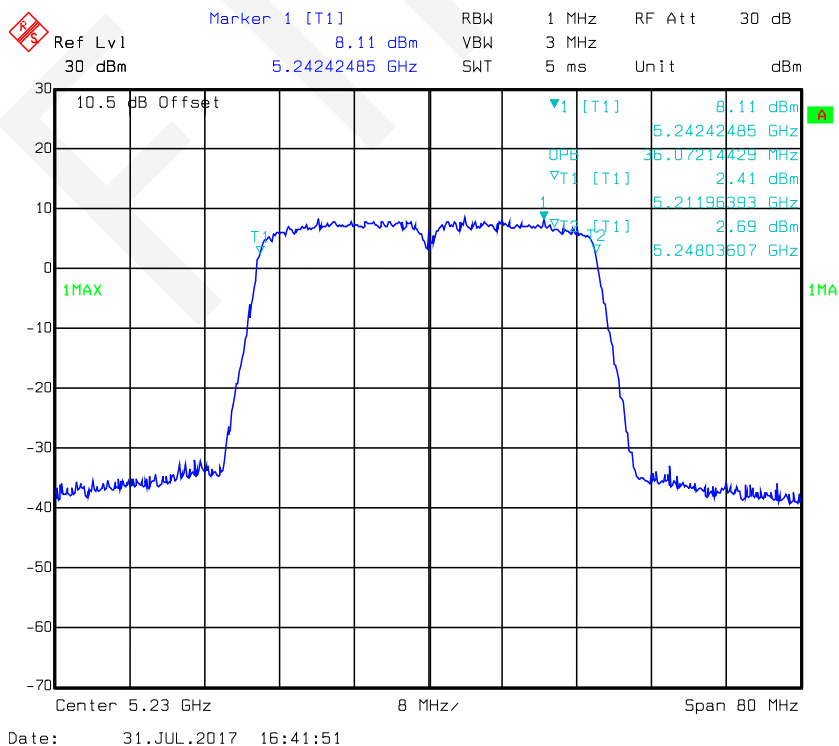
802.11ac40 mode, 99% Occupied Bandwidth-5230 MHz, Antenna 0



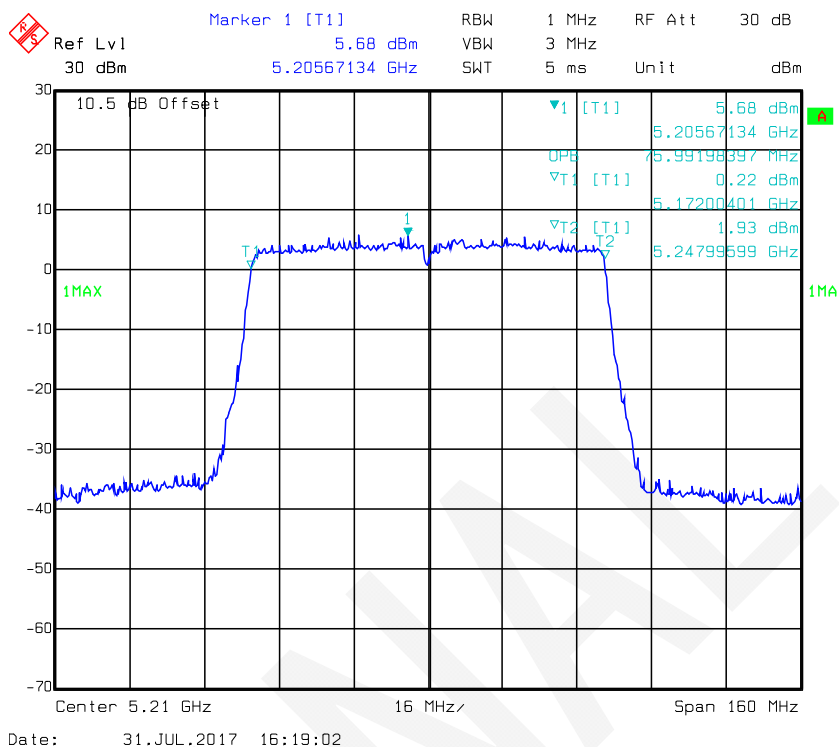
802.11ac40 mode, 99% Occupied Bandwidth-5190 MHz, Antenna 1



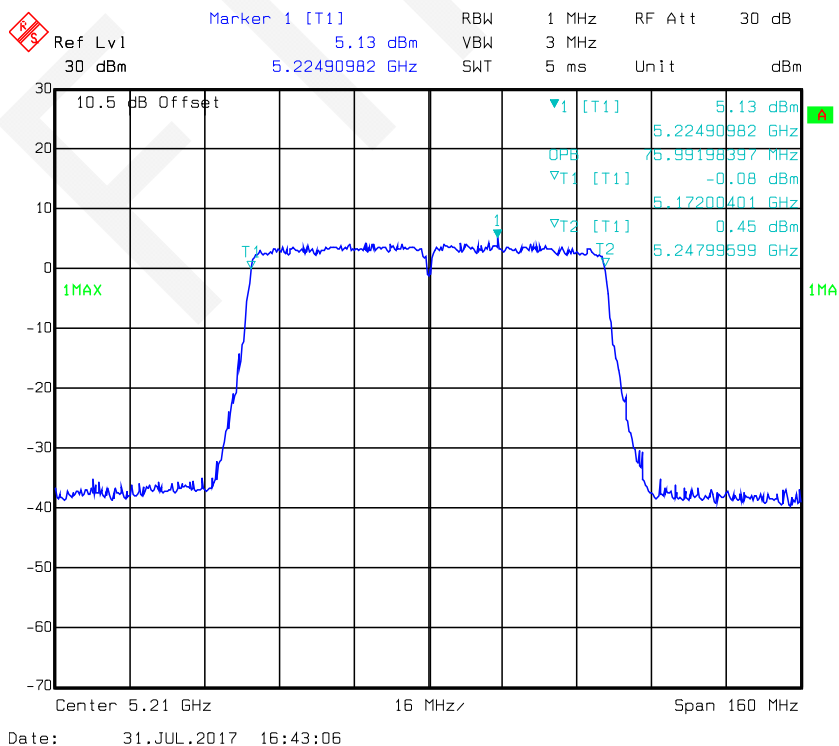
802.11ac40 mode, 99% Occupied Bandwidth-5230 MHz, Antenna 1



802.11ac80 mode, 99% Occupied Bandwidth-5210 MHz, Antenna 0



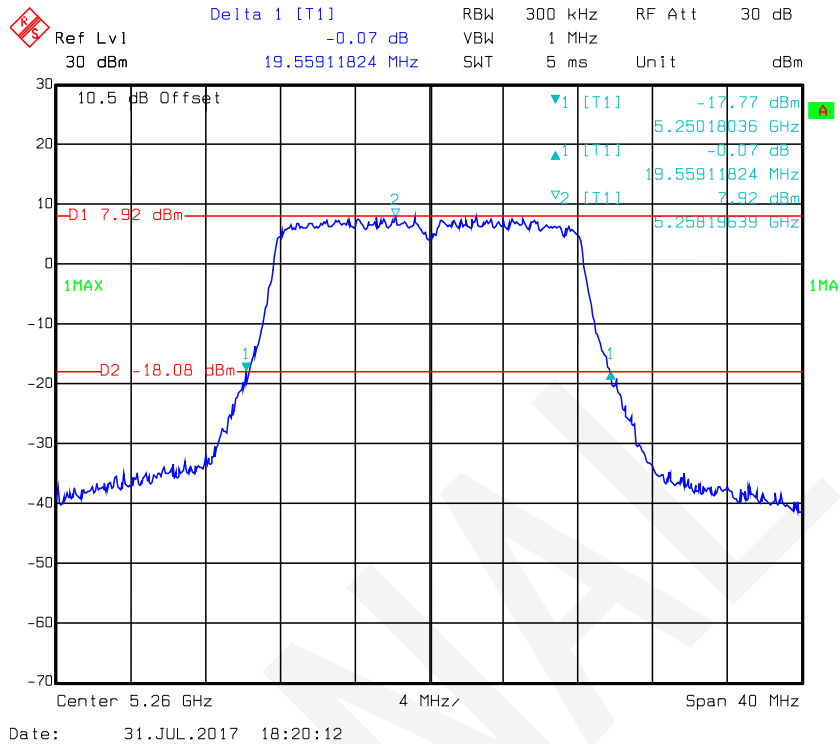
802.11ac80 mode, 99% Occupied Bandwidth-5210 MHz, Antenna 1



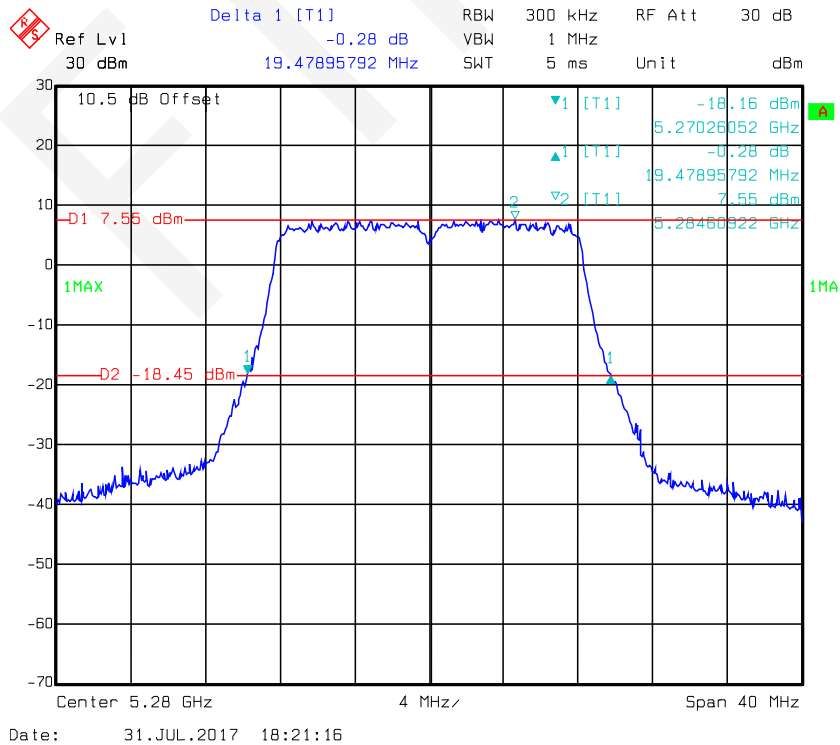
For 5250-5350 MHz:

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
			Antenna 0	Antenna 1	Antenna 0	Antenna 1
802.11a	Low	5260	19.56	19.48	16.59	16.59
	Middle	5280	19.48	19.64	16.51	16.59
	High	5320	19.56	19.48	16.59	16.51
802.11n-HT20	Low	5260	20.60	20.52	17.72	17.72
	Middle	5280	20.52	20.76	17.72	17.72
	High	5320	20.36	20.52	17.72	17.72
802.11n-HT40	Low	5270	39.28	39.12	36.07	36.23
	High	5310	39.28	39.28	36.07	36.07
802.11ac20	Low	5260	20.52	20.36	17.72	17.72
	Middle	5280	20.52	20.52	17.72	17.72
	High	5320	20.52	20.68	17.72	17.72
802.11ac40	Low	5270	39.12	39.12	36.23	36.23
	High	5310	39.28	39.12	36.07	36.07
802.11ac80	Middle	5290	84.01	84.01	75.99	75.99

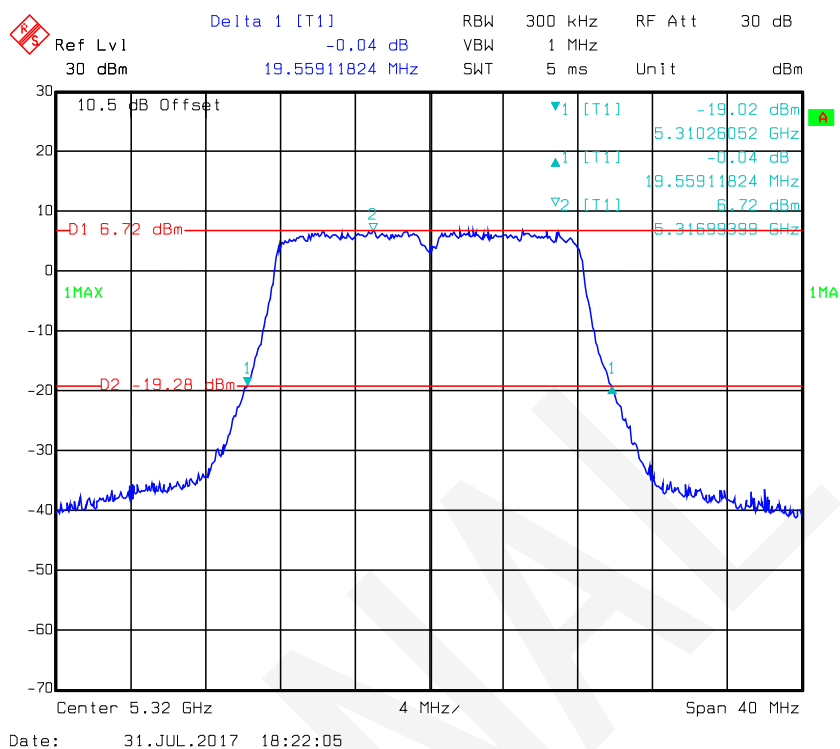
802.11a mode, 26 dB Bandwidth-5260 MHz, Antenna 0



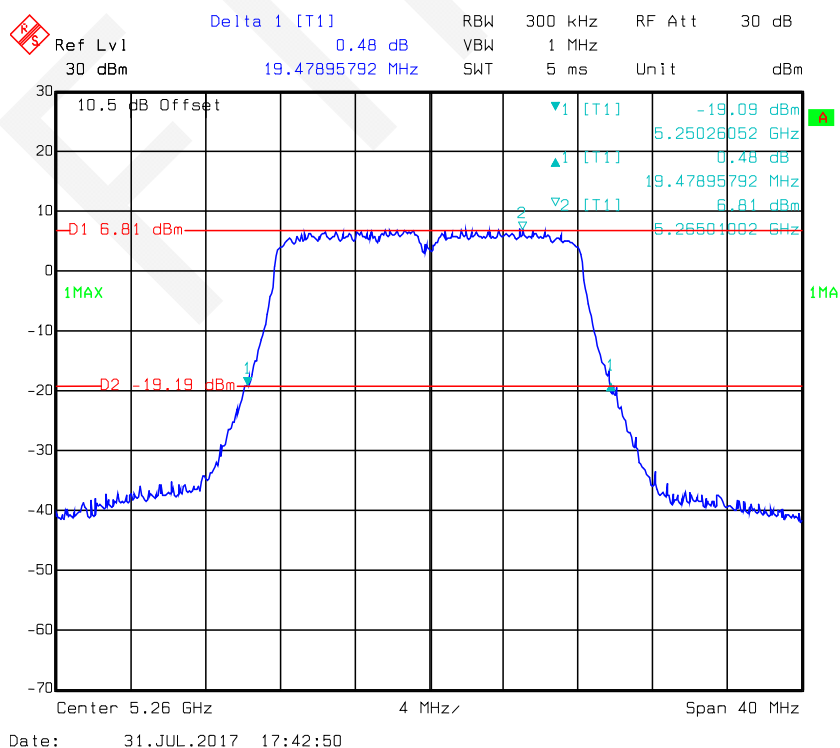
802.11a mode, 26 dB Bandwidth-5280 MHz, Antenna 0



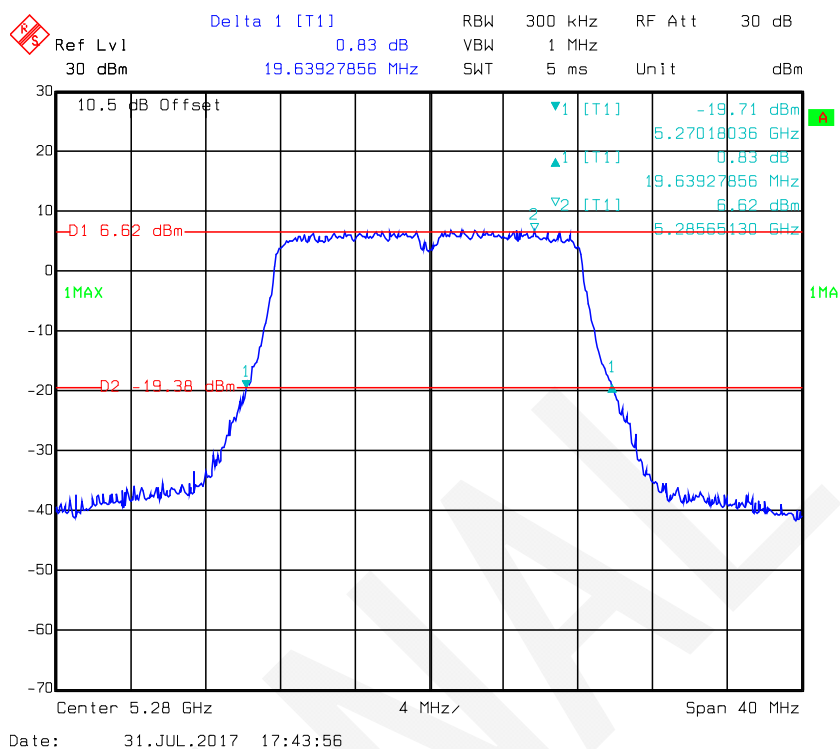
802.11a mode, 26 dB Bandwidth-5320 MHz, Antenna 0



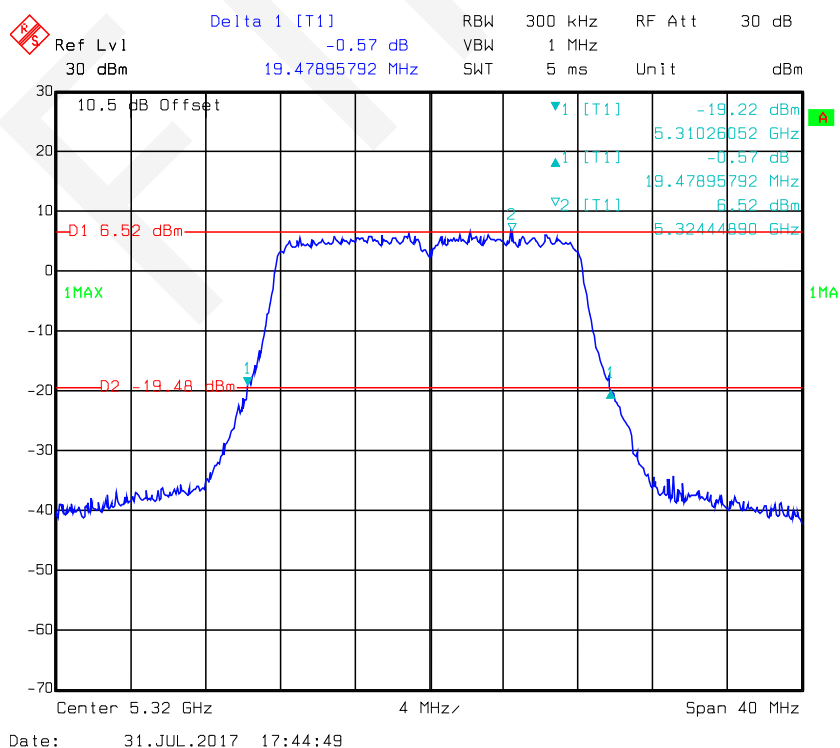
802.11a mode, 26 dB Bandwidth-5260 MHz, Antenna 1



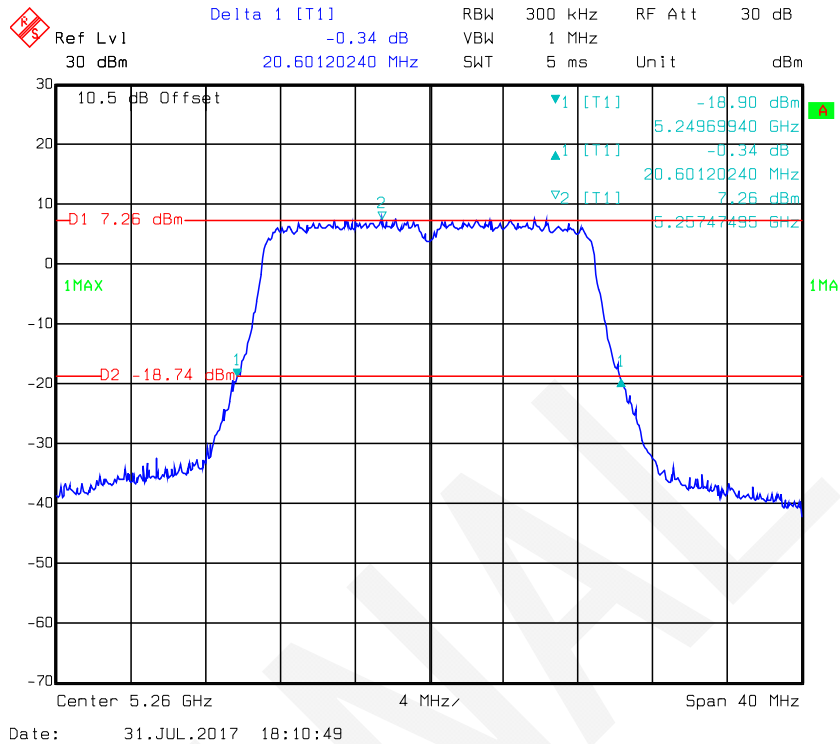
802.11a mode, 26 dB Bandwidth-5280 MHz, Antenna 1



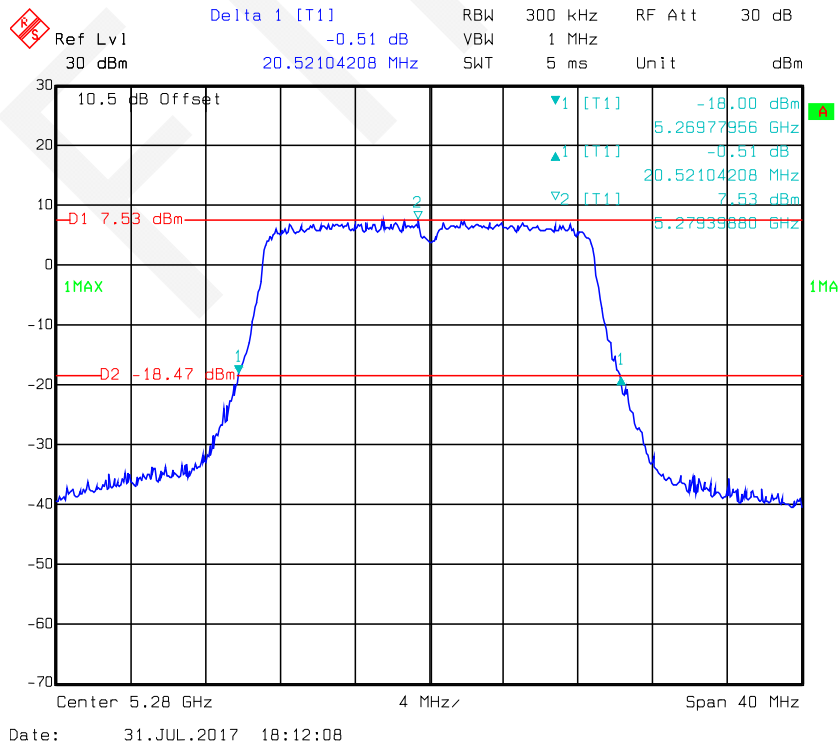
802.11a mode, 26 dB Bandwidth-5320 MHz, Antenna 1



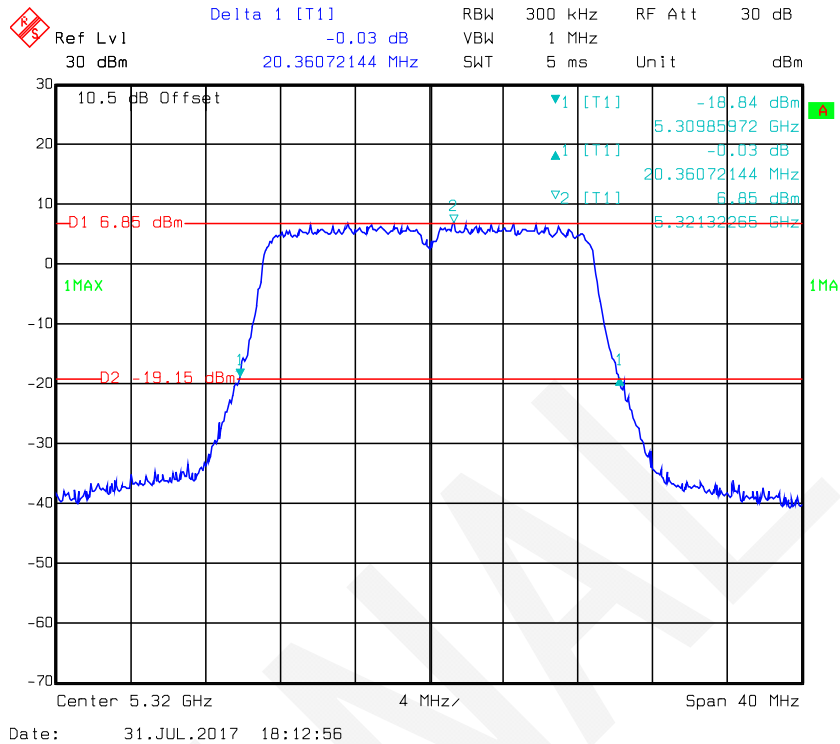
802.11n-HT20 mode, 26 dB Bandwidth-5260 MHz, Antenna 0



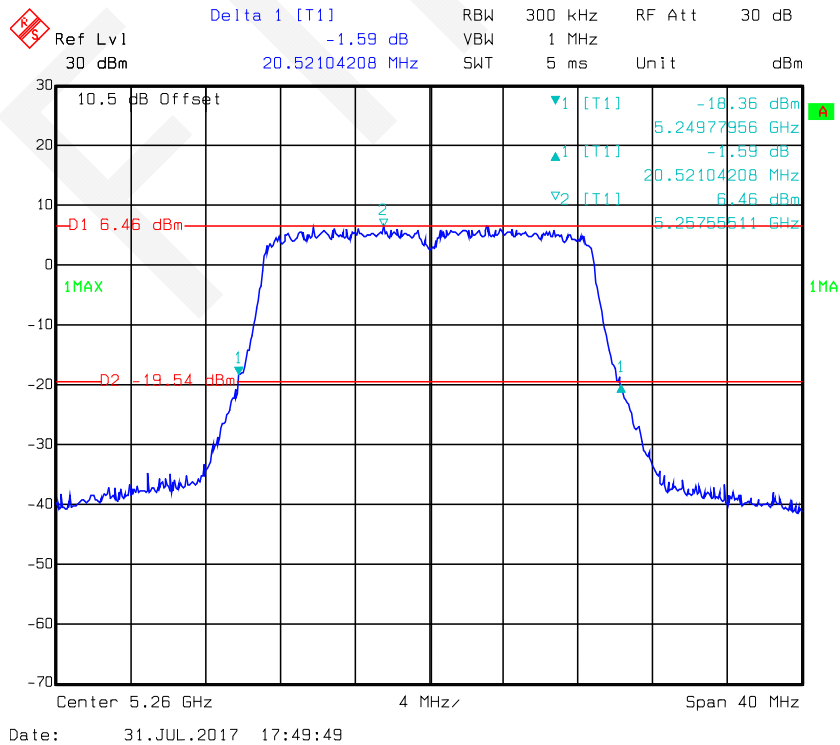
802.11n-HT20 mode, 26 dB Bandwidth-5280 MHz, Antenna 0



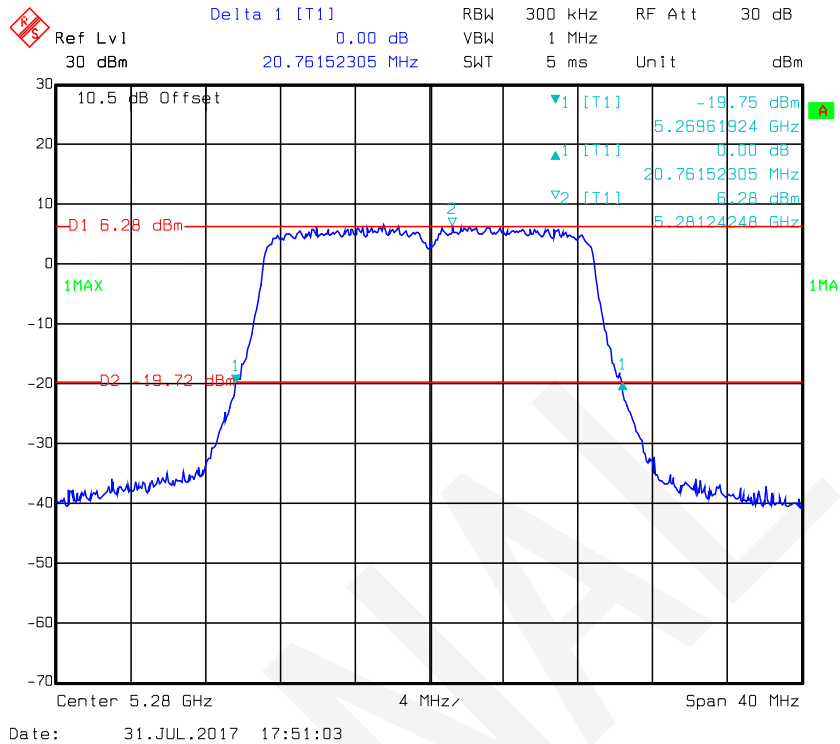
802.11n-HT20 mode, 26 dB Bandwidth-5320 MHz, Antenna 0



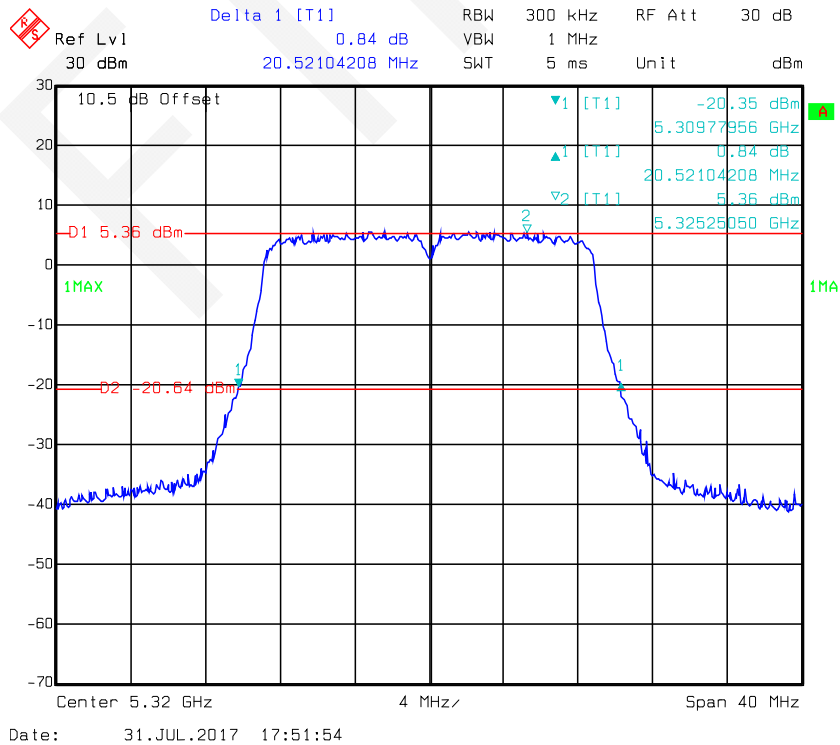
802.11n-HT20 mode, 26 dB Bandwidth-5260 MHz, Antenna 1



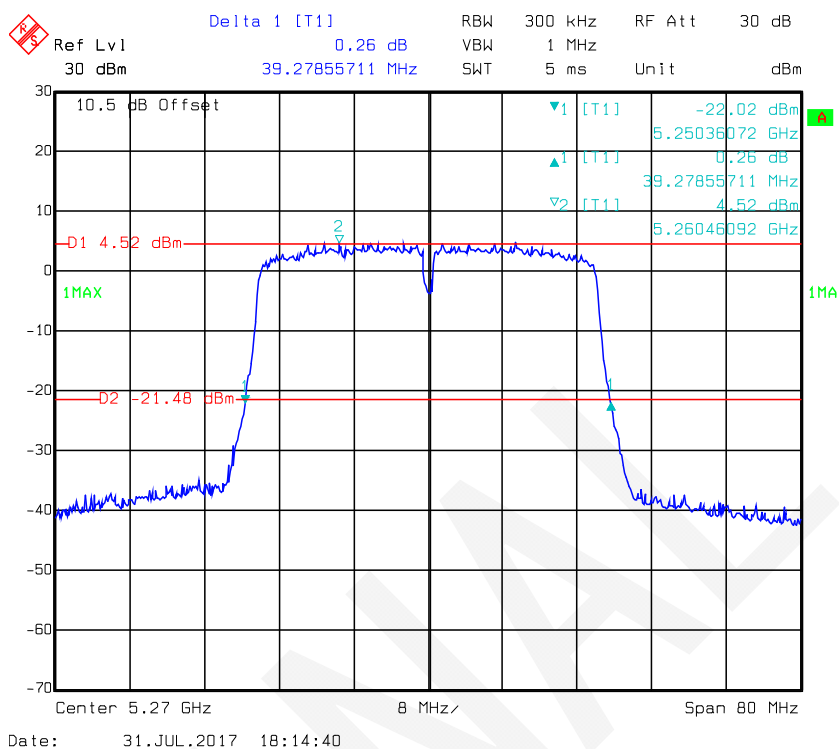
802.11n-HT20 mode, 26 dB Bandwidth-5280 MHz, Antenna 1



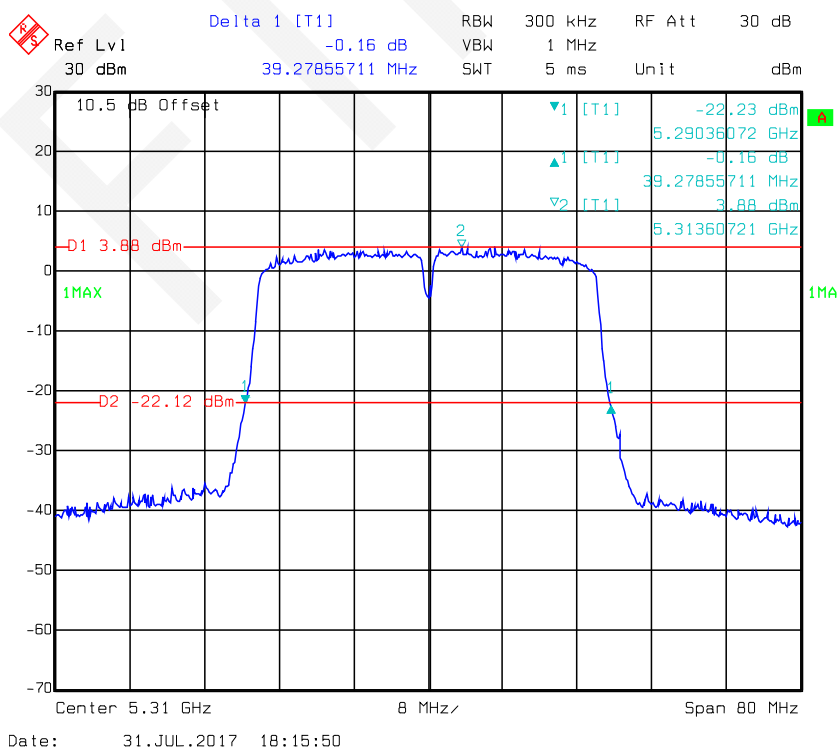
802.11n-HT20 mode, 26 dB Bandwidth-5320 MHz, Antenna 1



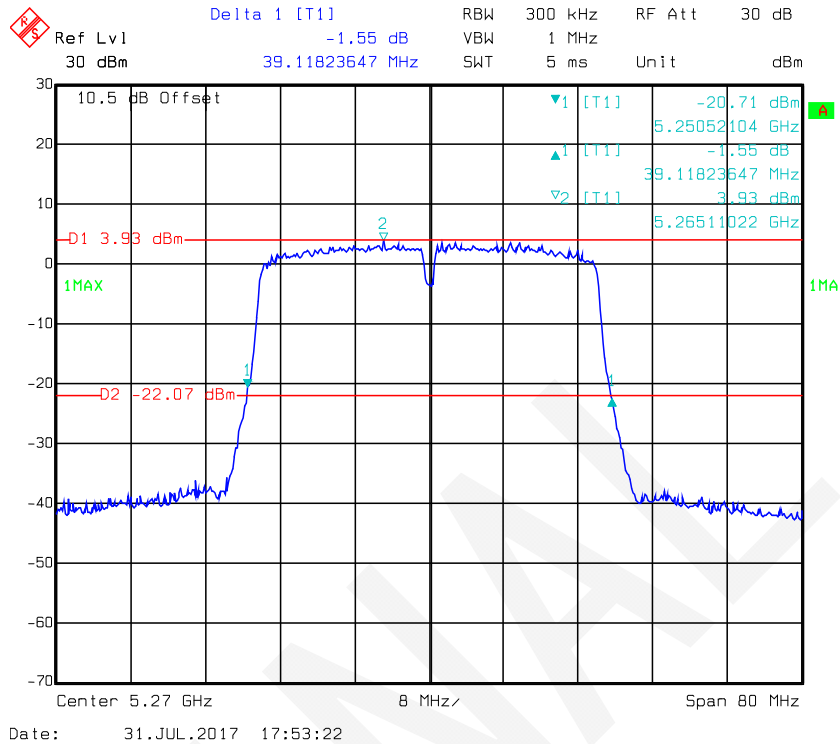
802.11n-HT40 mode, 26 dB Bandwidth-5270 MHz, Antenna 0



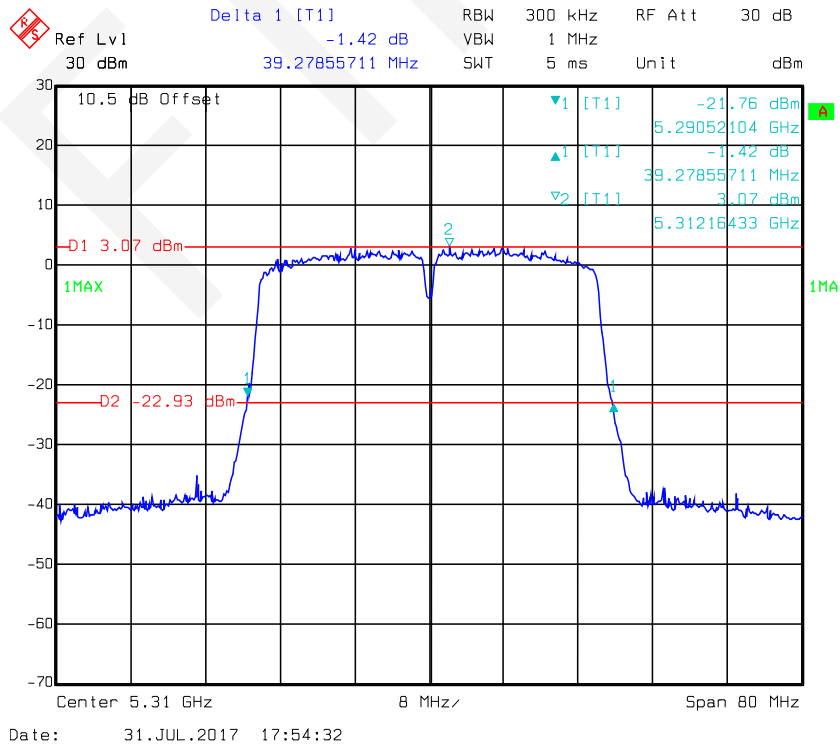
802.11n-HT40 mode, 26 dB Bandwidth-5310 MHz, Antenna 0



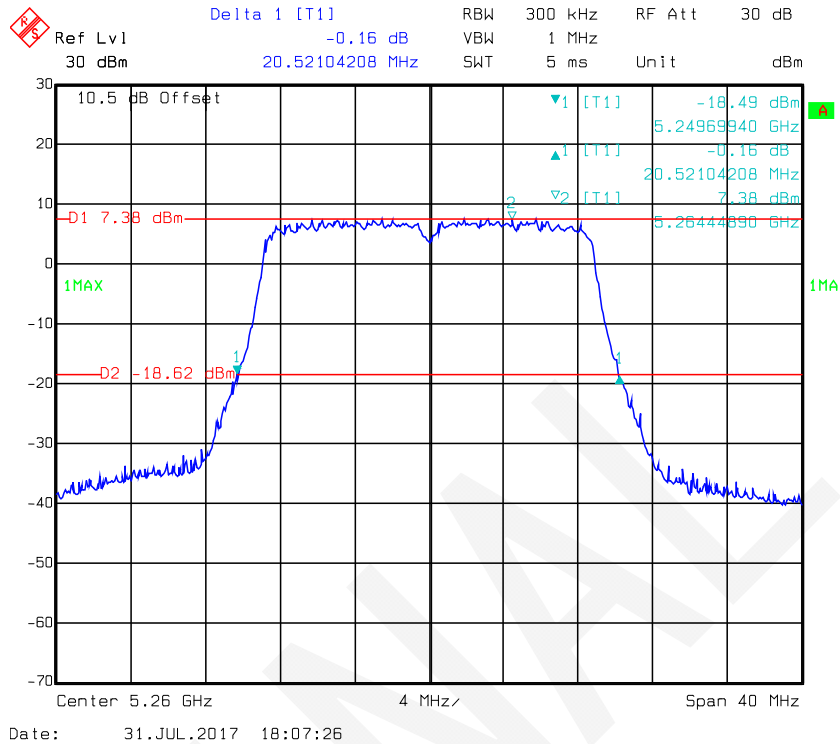
802.11n-HT40 mode, 26 dB Bandwidth-5270 MHz, Antenna 1



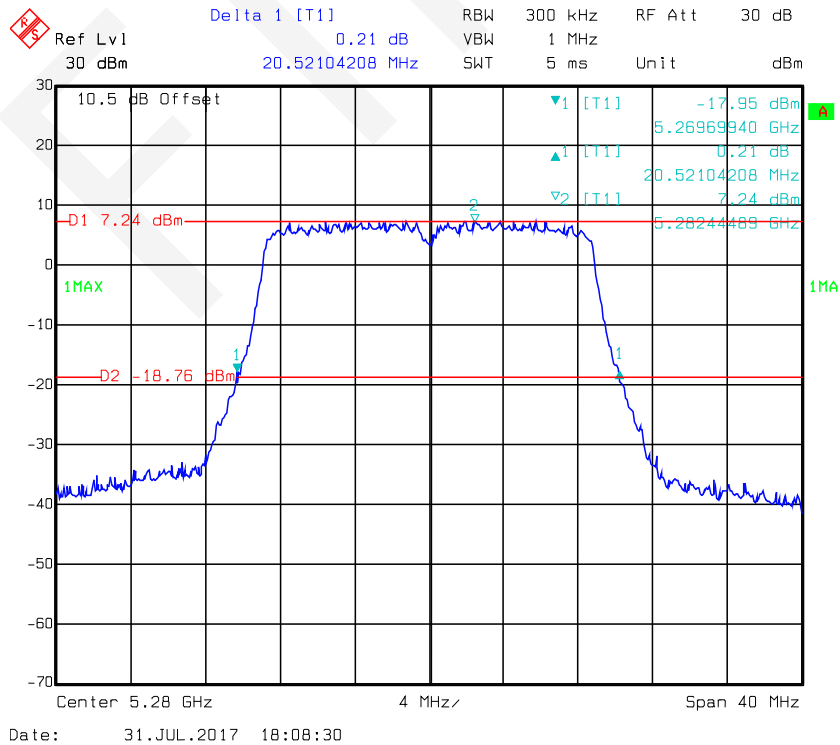
802.11n-HT40 mode, 26 dB Bandwidth-5310 MHz, Antenna 1



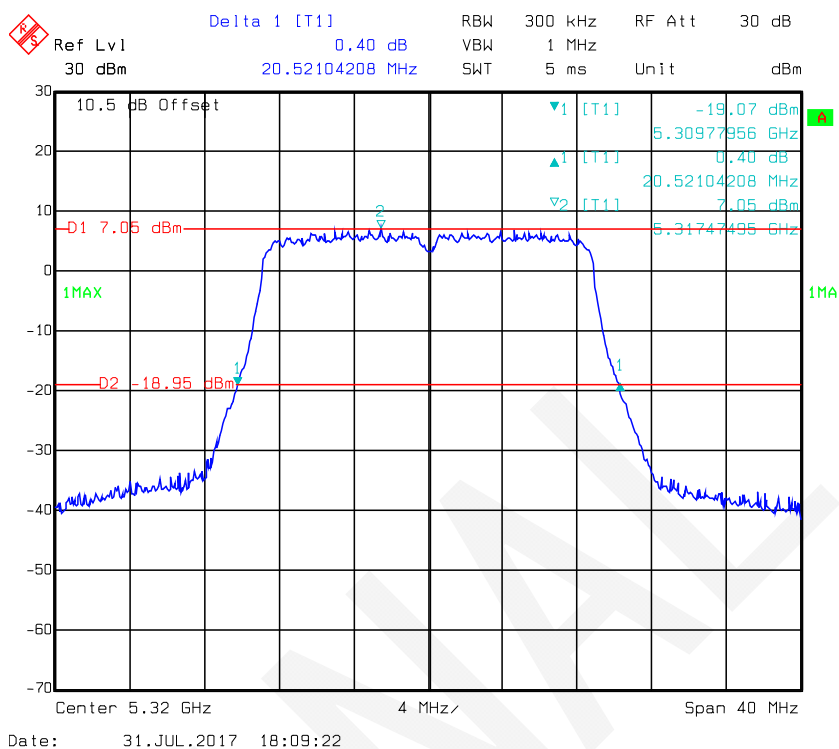
802.11ac20 mode, 26 dB Bandwidth-5260 MHz, Antenna 0



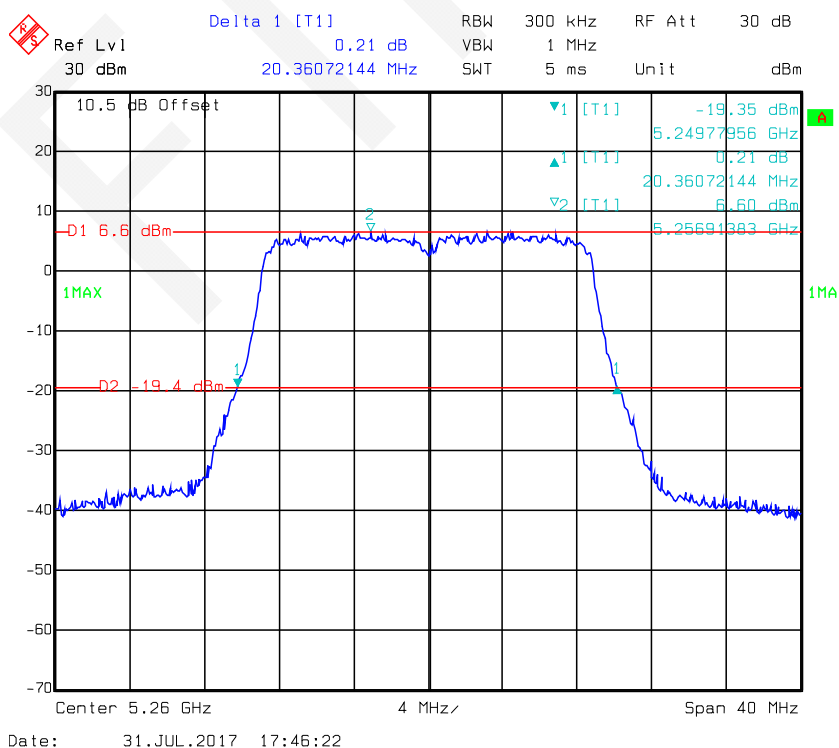
802.11ac20 mode, 26 dB Bandwidth-5280 MHz, Antenna 0



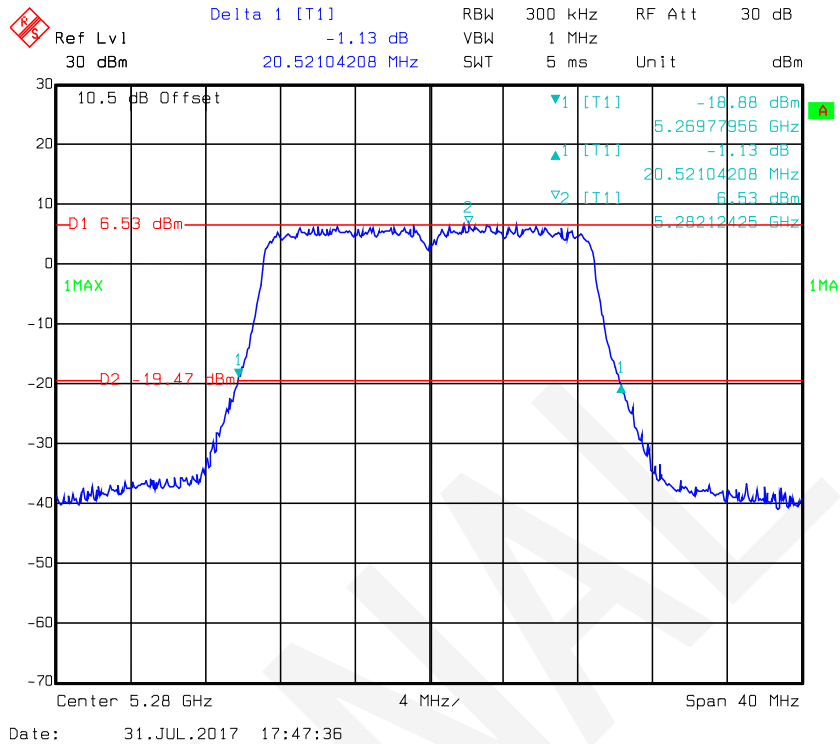
802.11ac20 mode, 26 dB Bandwidth-5320 MHz, Antenna 0



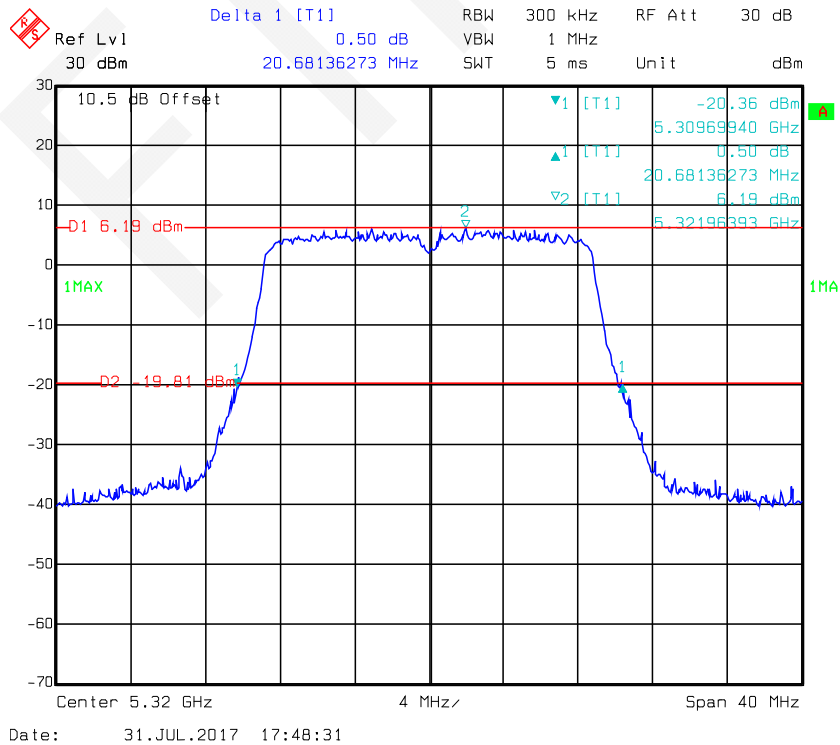
802.11ac20 mode, 26 dB Bandwidth-5260 MHz, Antenna 1



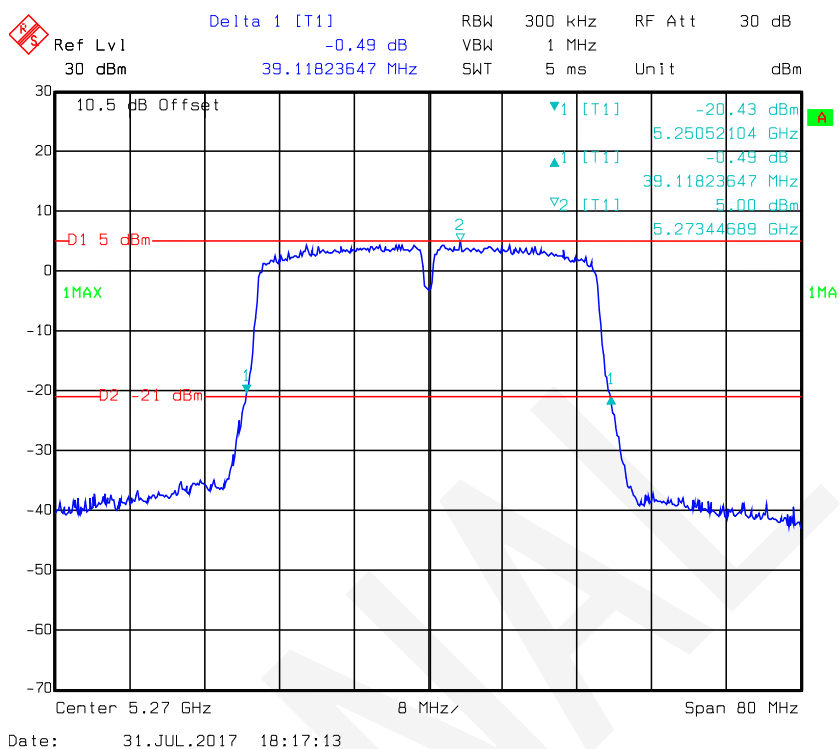
802.11ac20 mode, 26 dB Bandwidth-5280 MHz, Antenna 1



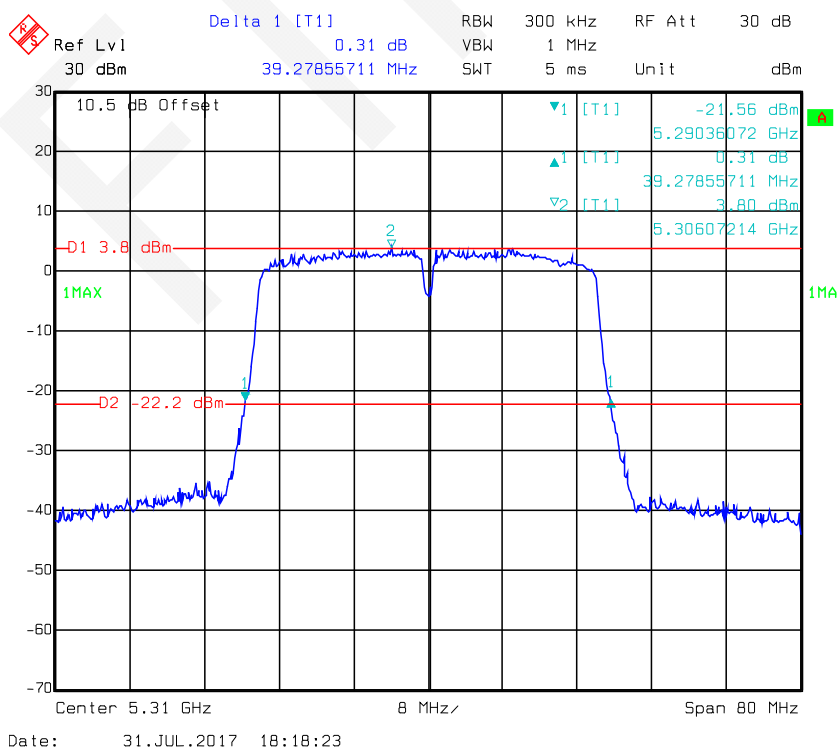
802.11ac20 mode, 26 dB Bandwidth-5320 MHz, Antenna 1



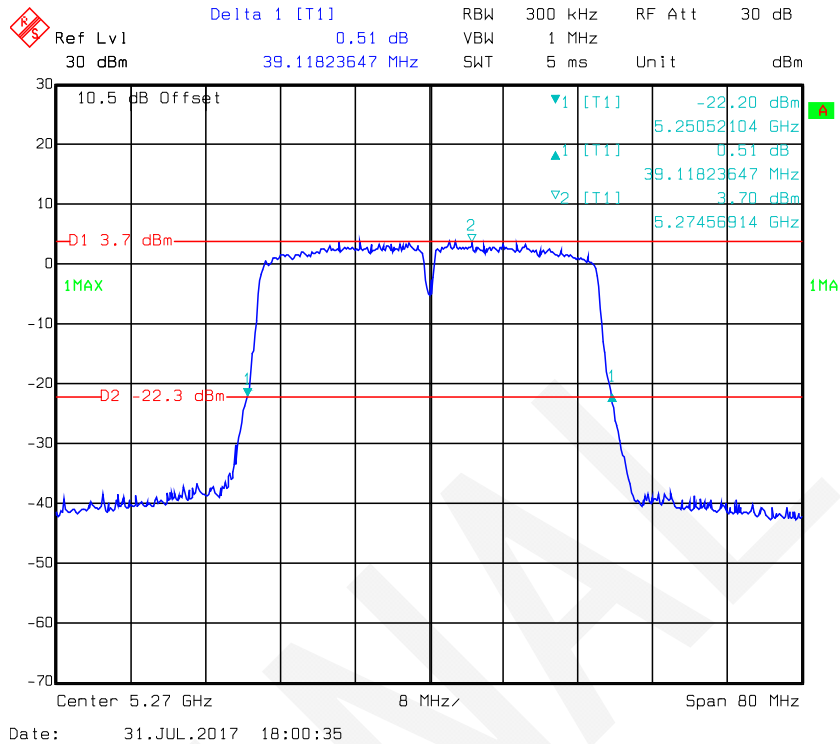
802.11ac40 mode, 26 dB Bandwidth-5270 MHz, Antenna 0



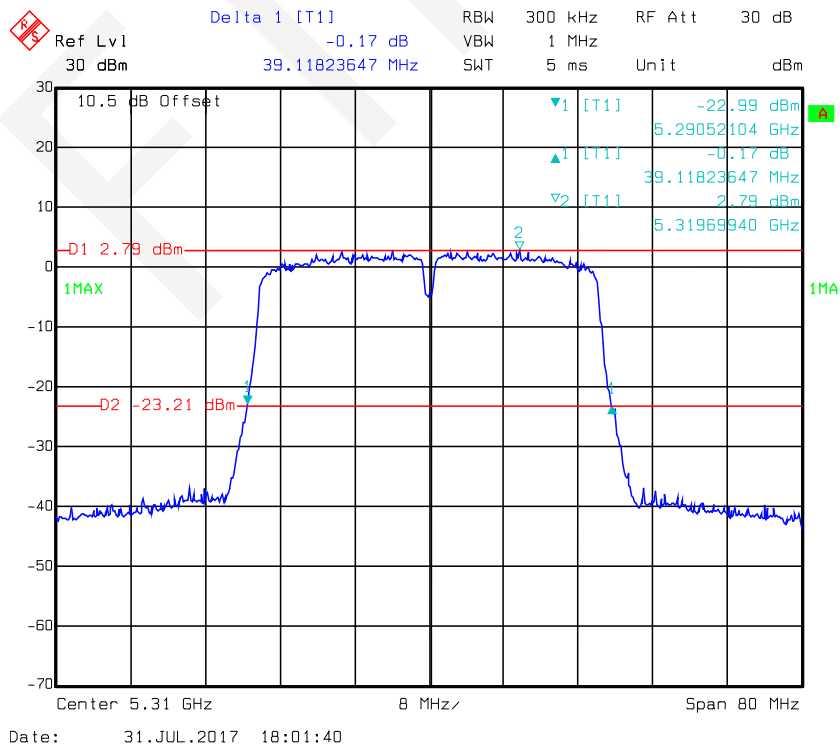
802.11ac40 mode, 26 dB Bandwidth-5310 MHz, Antenna 0



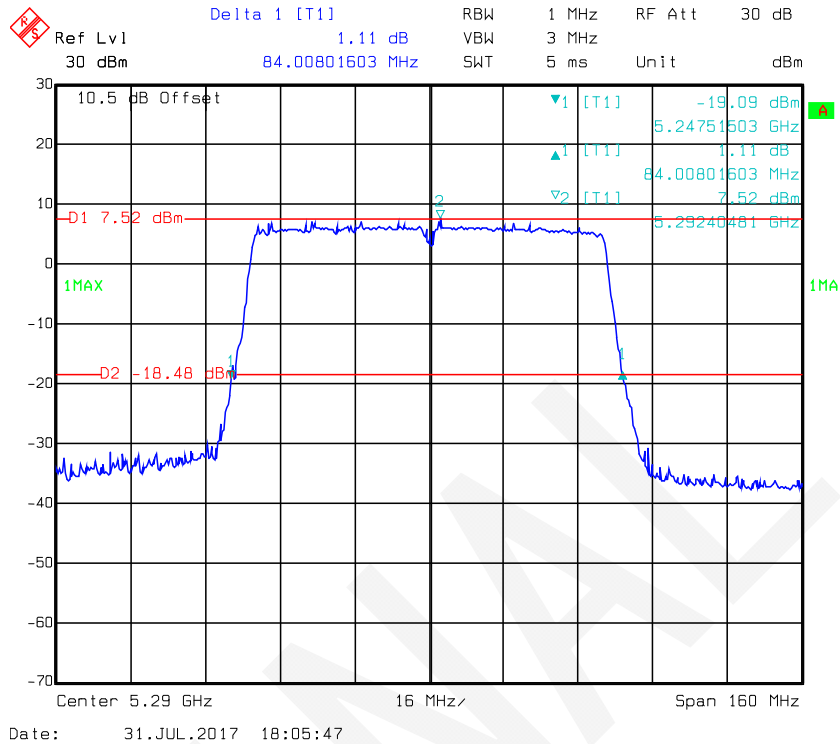
802.11ac40 mode, 26 dB Bandwidth-5270 MHz, Antenna 1



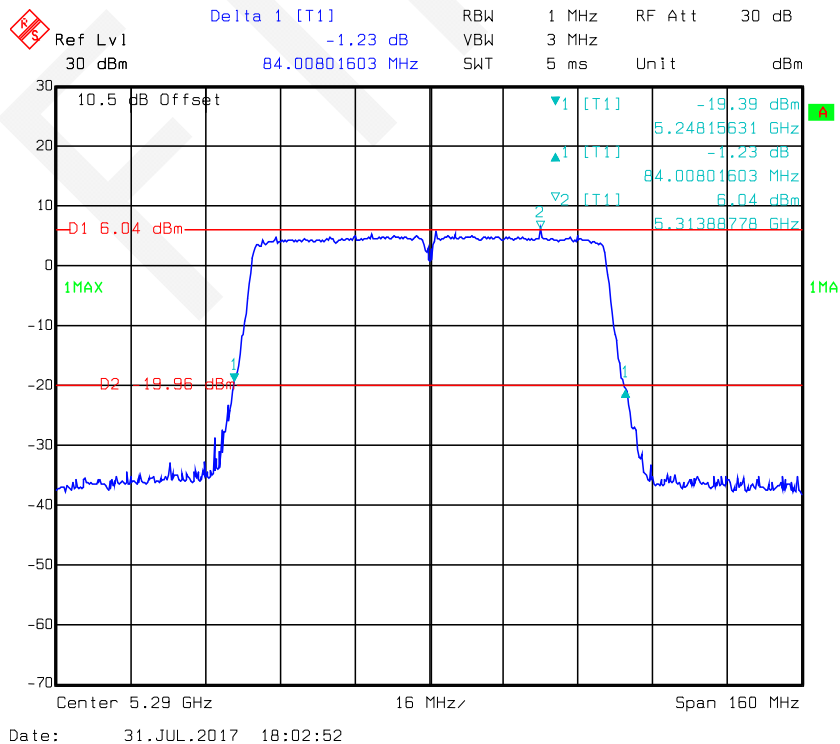
802.11ac40 mode, 26 dB Bandwidth-5310 MHz, Antenna 1



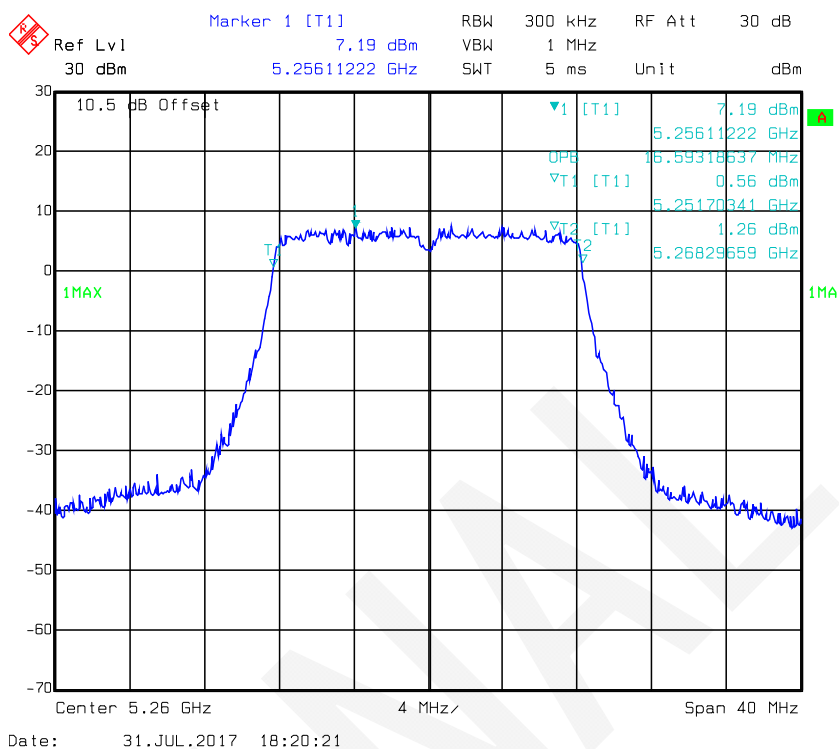
802.11ac80 mode, 26 dB Bandwidth-5290 MHz, Antenna 0



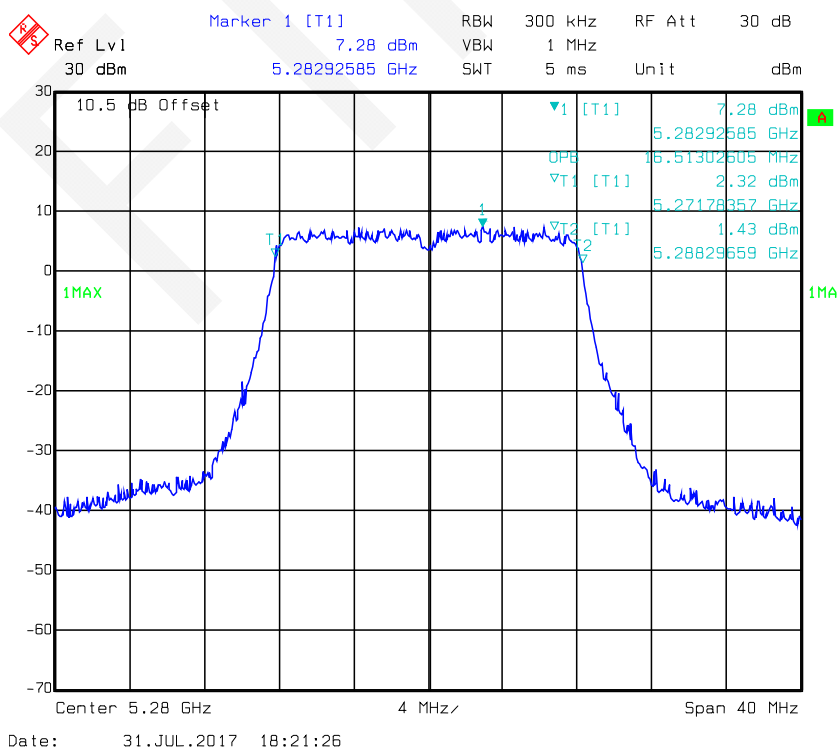
802.11ac80 mode, 26 dB Bandwidth-5290 MHz, Antenna 1



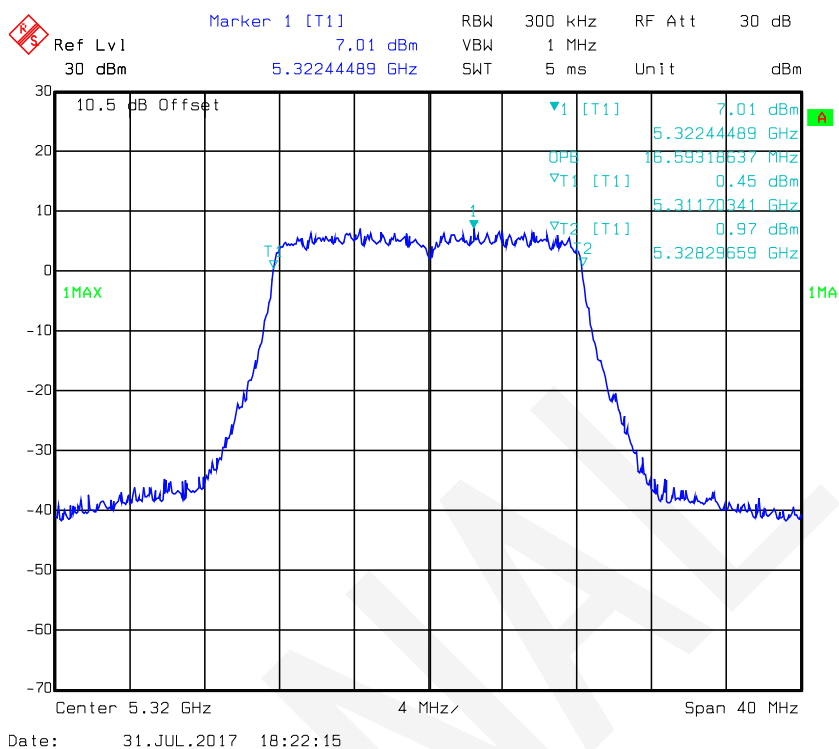
802.11a mode, 99% Occupied Bandwidth-5260 MHz, Antenna 0



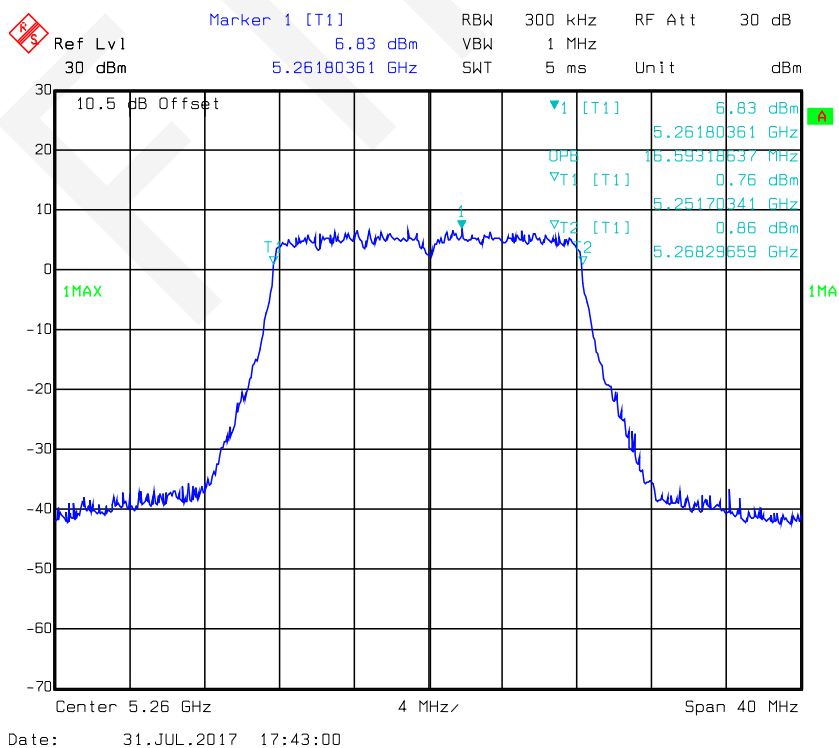
802.11a mode, 99% Occupied Bandwidth -5280 MHz, Antenna 0



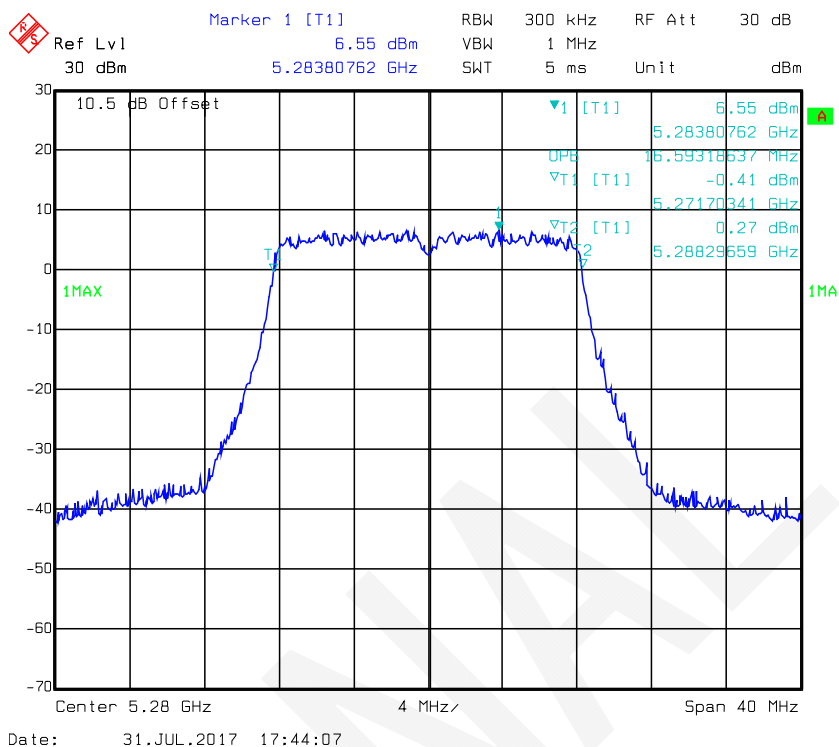
802.11a mode, 99% Occupied Bandwidth -5320 MHz, Antenna 0



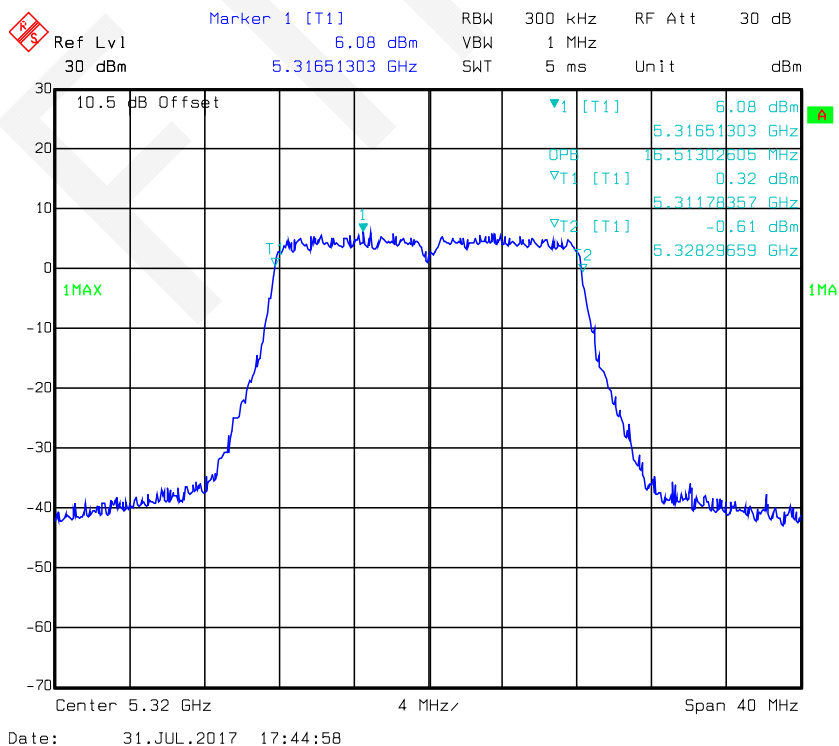
802.11a mode, 99% Occupied Bandwidth-5260 MHz, Antenna 1



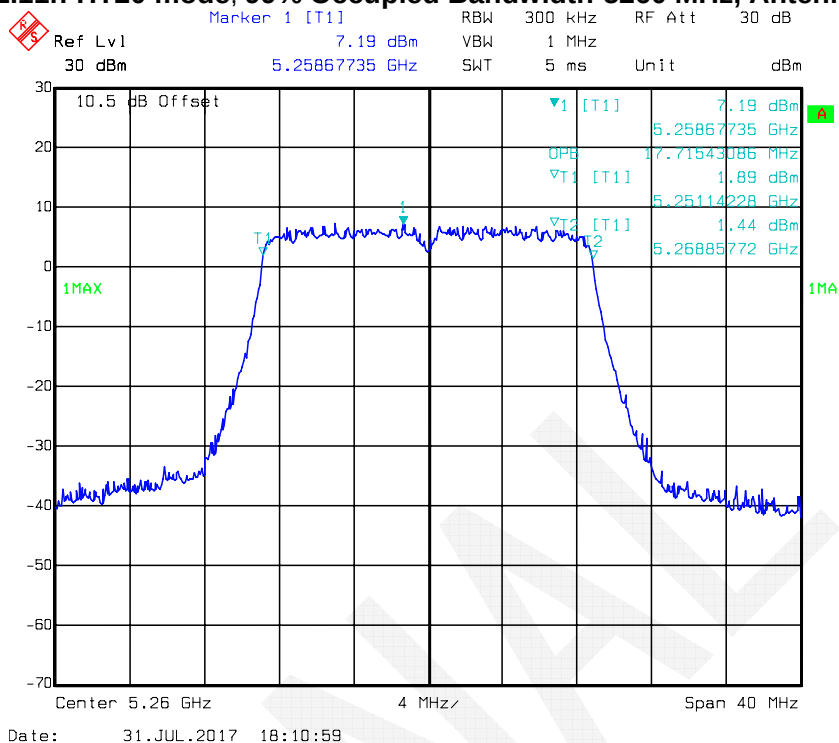
802.11a mode, 99% Occupied Bandwidth -5280 MHz, Antenna 1



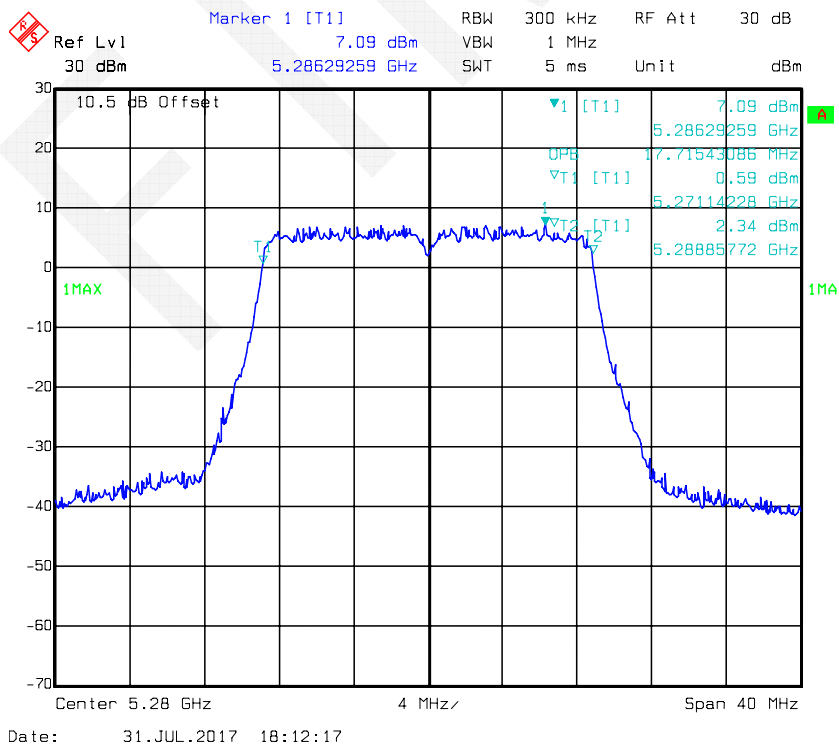
802.11a mode, 99% Occupied Bandwidth -5320 MHz, Antenna 1



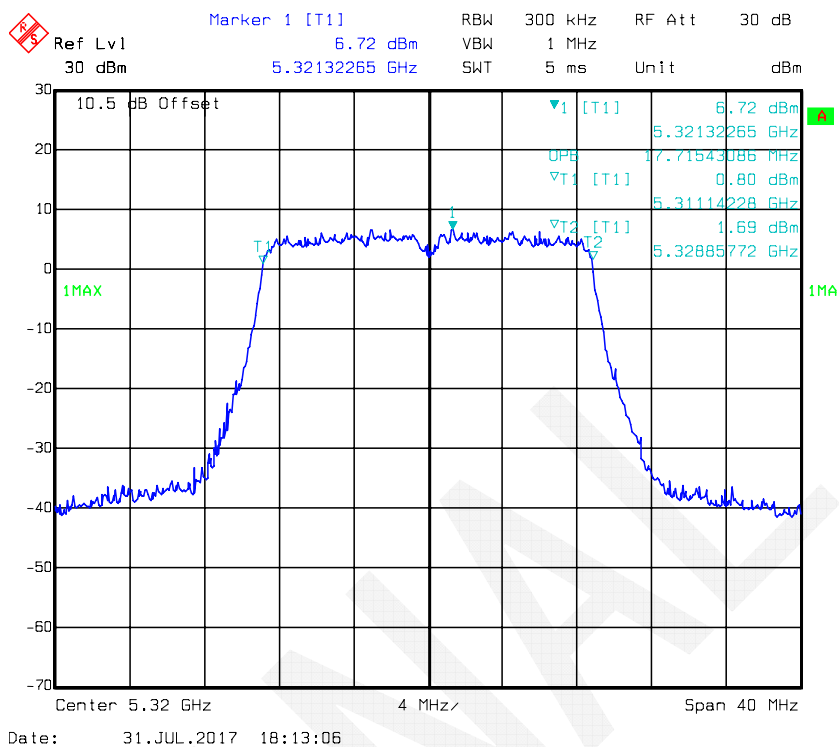
802.11n-HT20 mode, 99% Occupied Bandwidth-5260 MHz, Antenna 0



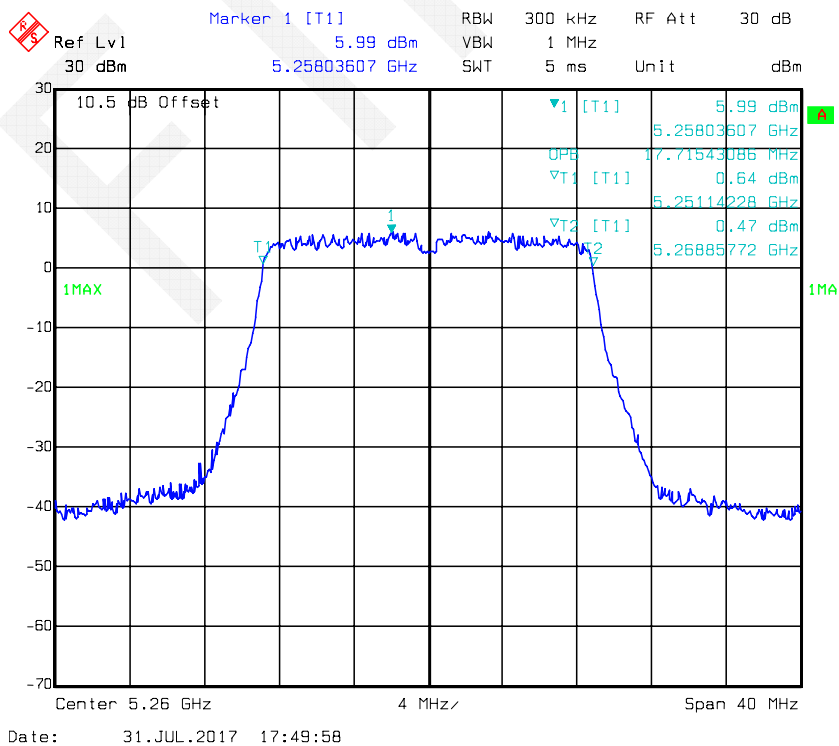
802.11n-HT20 mode, 99% Occupied Bandwidth -5280 MHz, Antenna 0



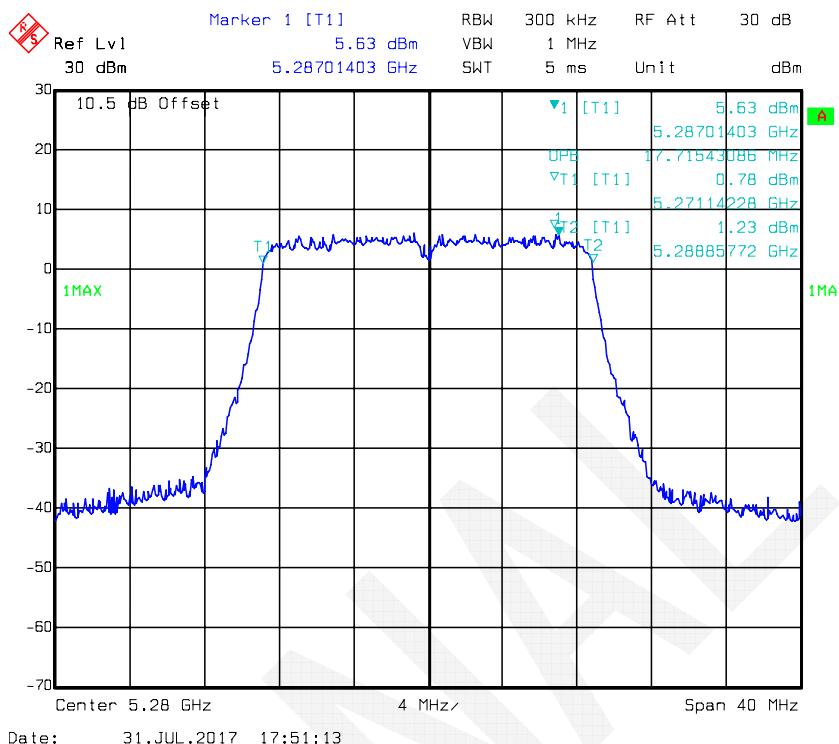
802.11n-HT20 mode, 99% Occupied Bandwidth -5320 MHz, Antenna 0



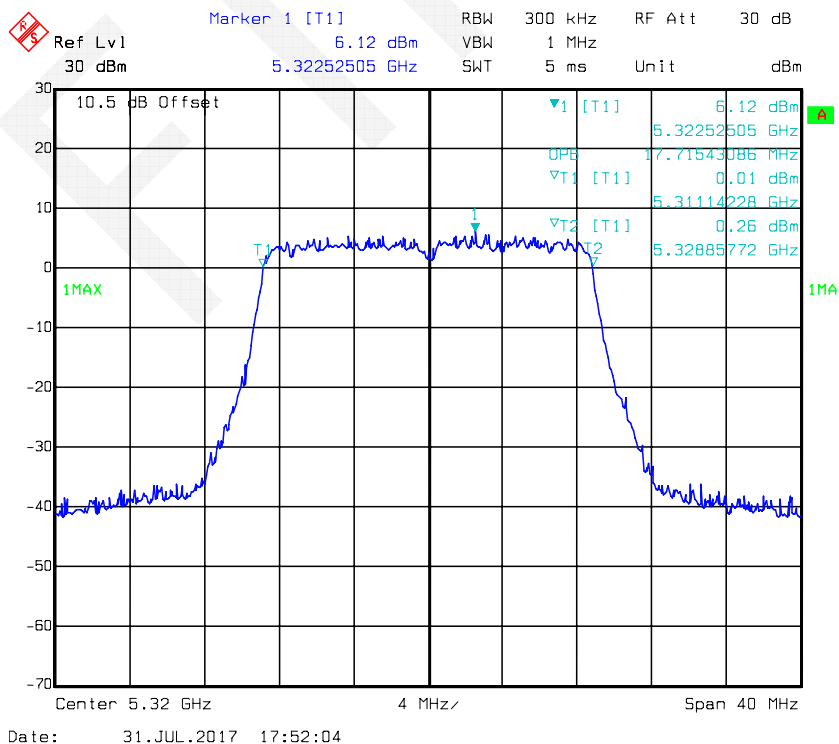
802.11n-HT20 mode, 99% Occupied Bandwidth-5260 MHz, Antenna 1



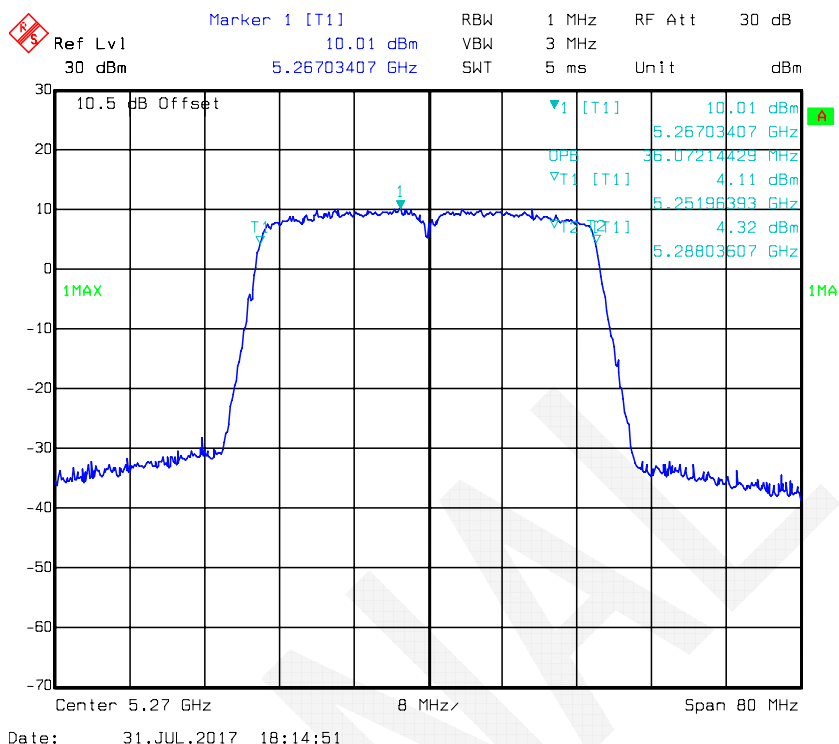
802.11n-HT20 mode, 99% Occupied Bandwidth -5280 MHz, Antenna 1



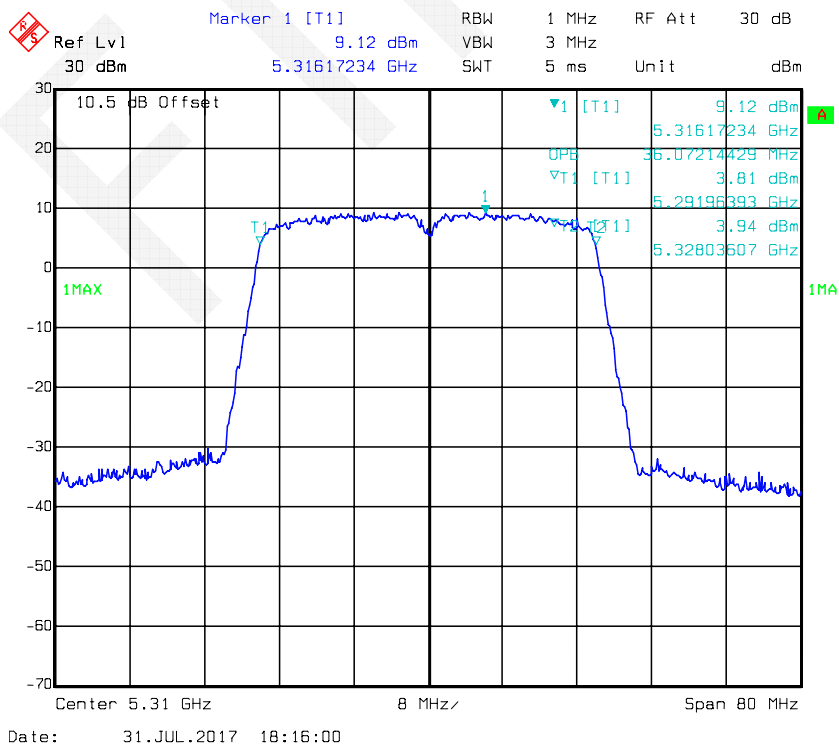
802.11n-HT20 mode, 99% Occupied Bandwidth -5320 MHz, Antenna 1



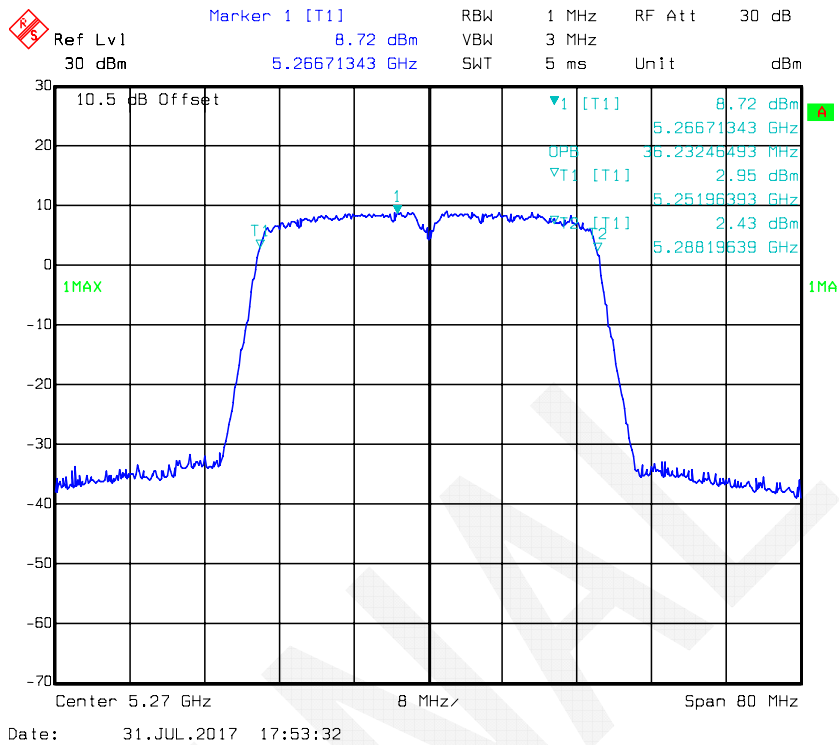
802.11n-HT40 mode, 99% Occupied Bandwidth-5270 MHz, Antenna 0



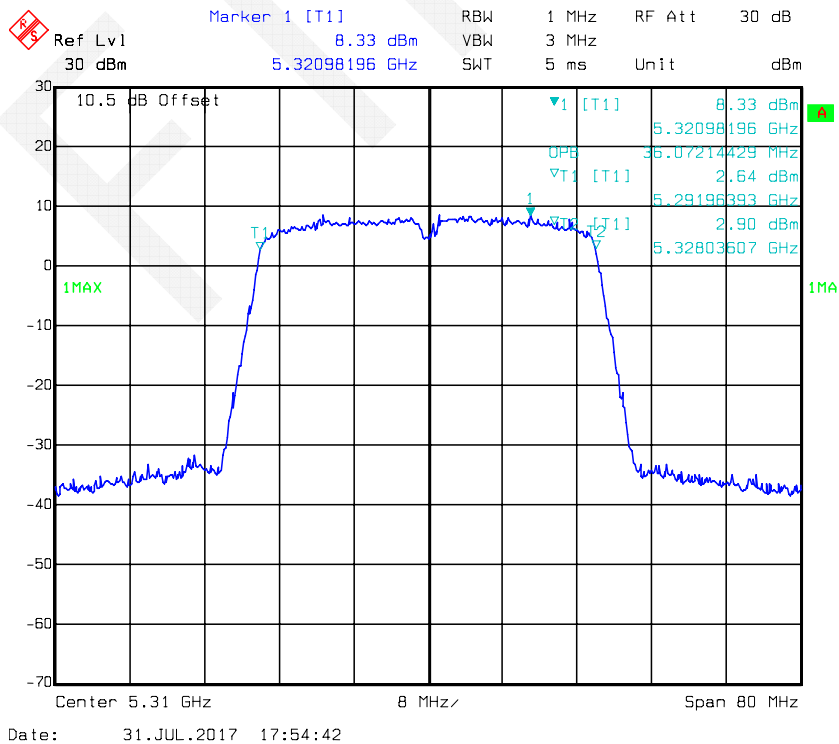
802.11n-HT40 mode, 99% Occupied Bandwidth-5310 MHz, Antenna 0



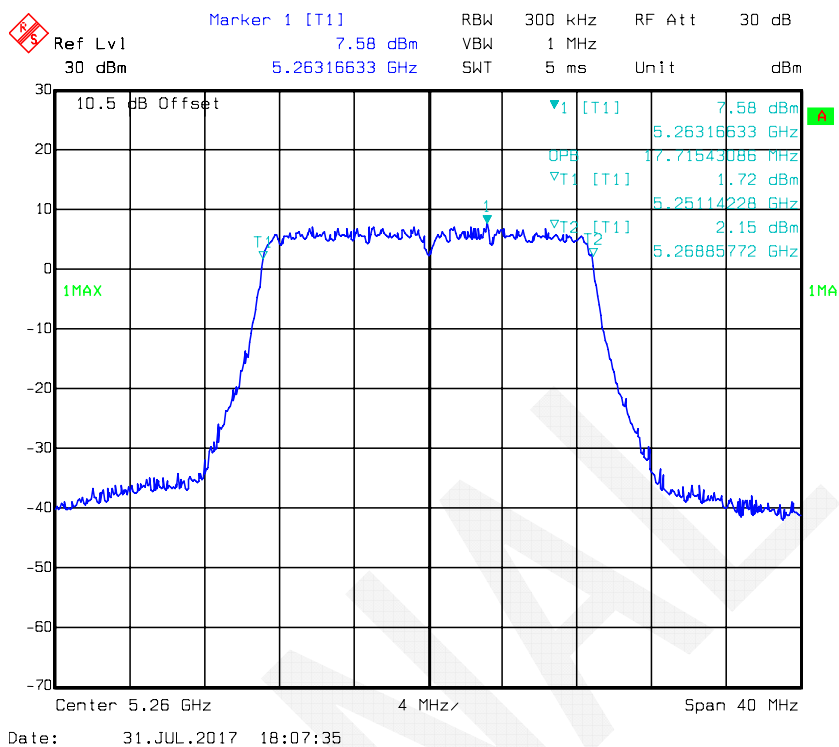
802.11n-HT40 mode, 99% Occupied Bandwidth-5270 MHz, Antenna 1



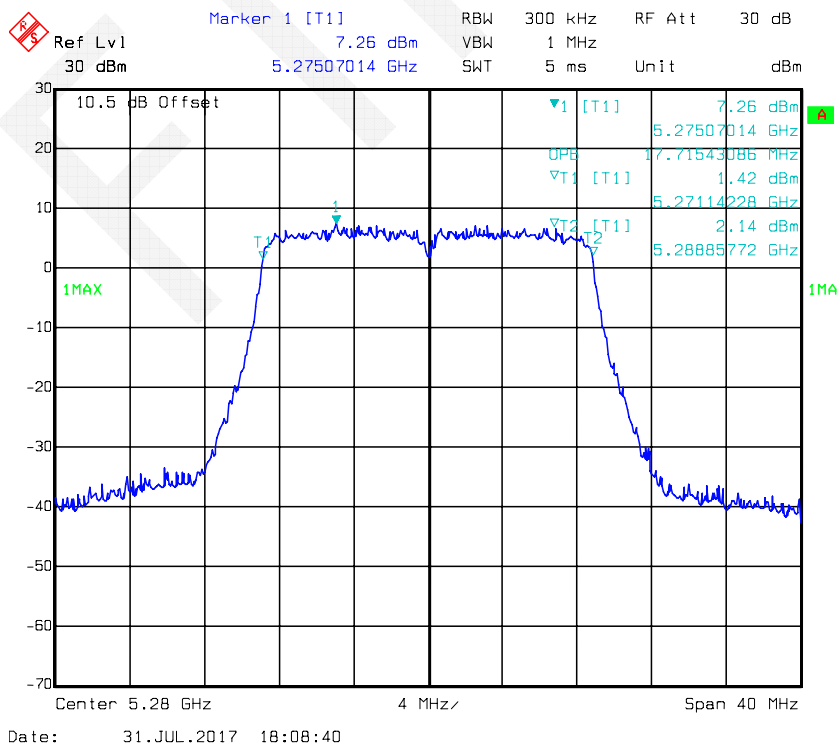
802.11n-HT40 mode, 99% Occupied Bandwidth-5310 MHz, Antenna 1



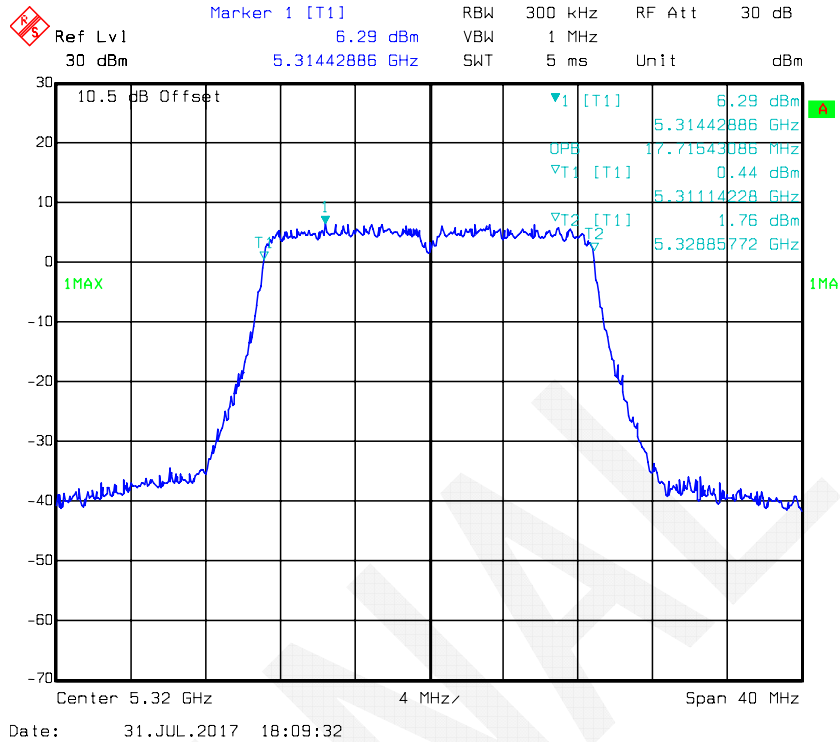
802.11ac20 mode, 99% Occupied Bandwidth-5260 MHz, Antenna 0



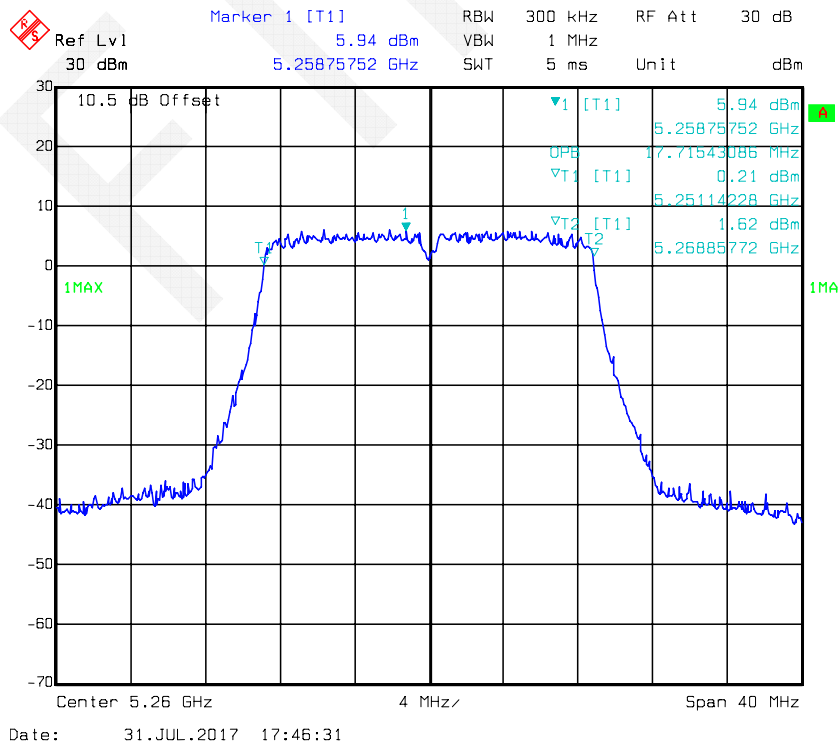
802.11ac20 mode, 99% Occupied Bandwidth-5280 MHz, Antenna 0



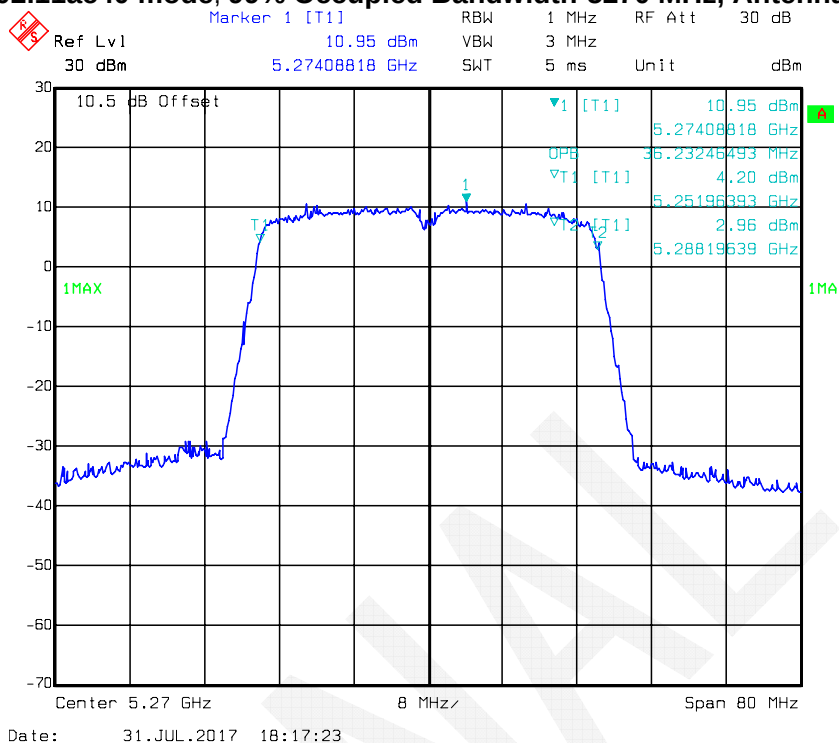
802.11ac20 mode, 99% Occupied Bandwidth-5320 MHz, Antenna 0



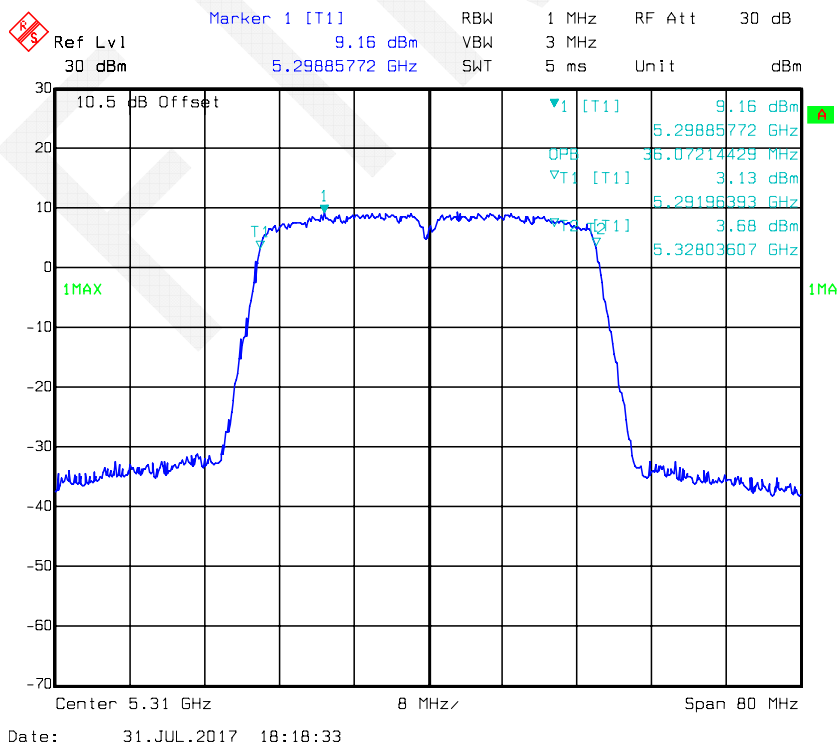
802.11ac20 mode, 99% Occupied Bandwidth-5260 MHz, Antenna 1



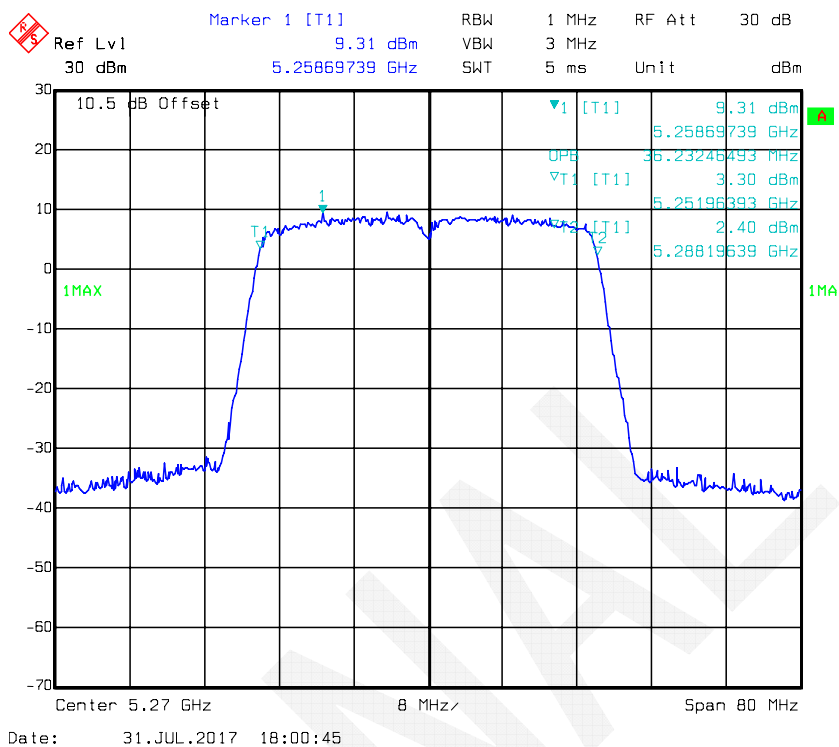
802.11ac40 mode, 99% Occupied Bandwidth-5270 MHz, Antenna 0



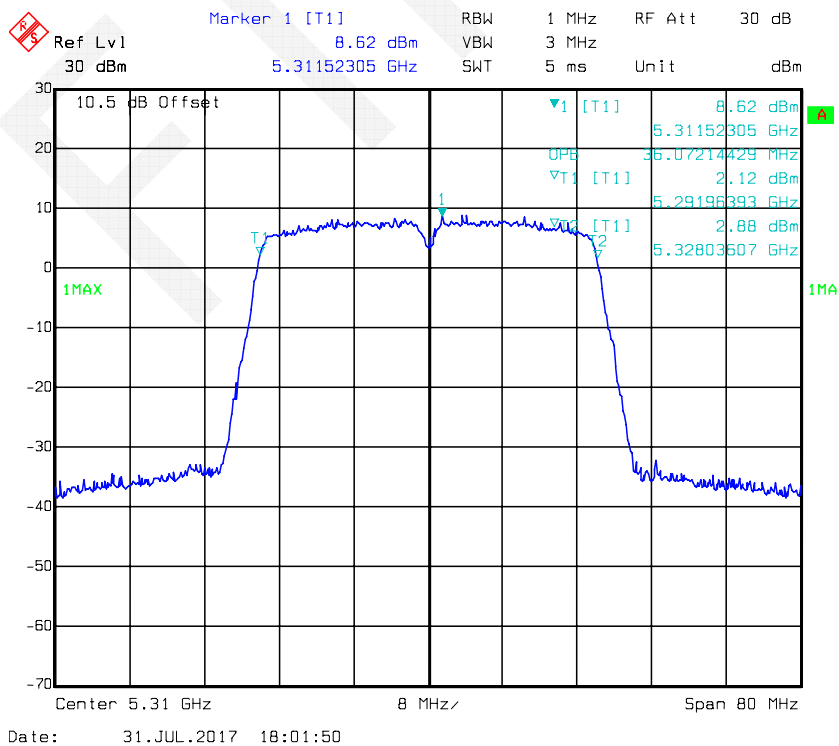
802.11ac40 mode, 99% Occupied Bandwidth-5310 MHz, Antenna 0



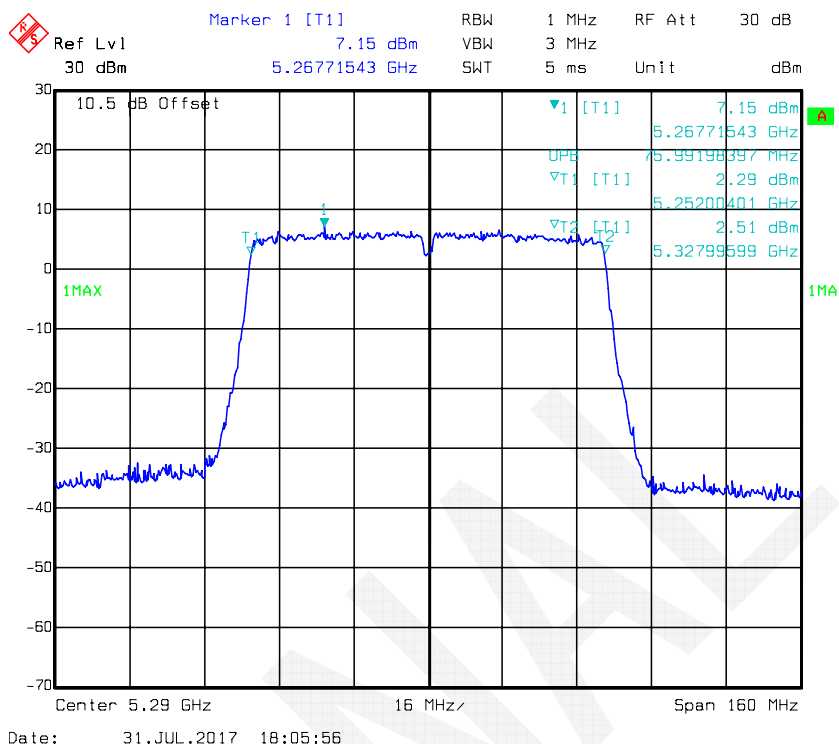
802.11ac40 mode, 99% Occupied Bandwidth-5270 MHz, Antenna 1



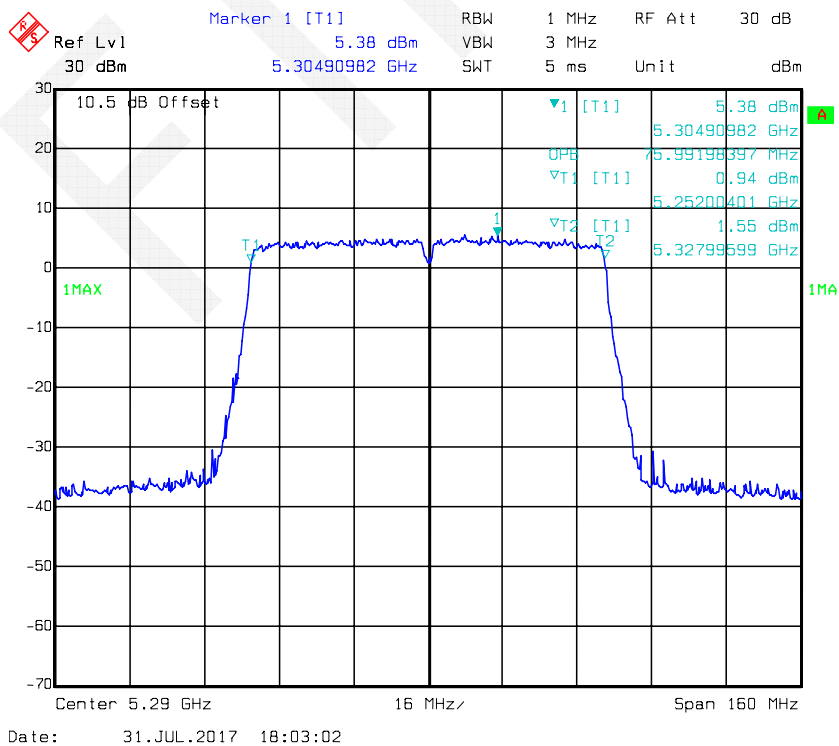
802.11ac40 mode, 99% Occupied Bandwidth-5310 MHz, Antenna 1



802.11ac80 mode, 99% Occupied Bandwidth-5290 MHz, Antenna 0



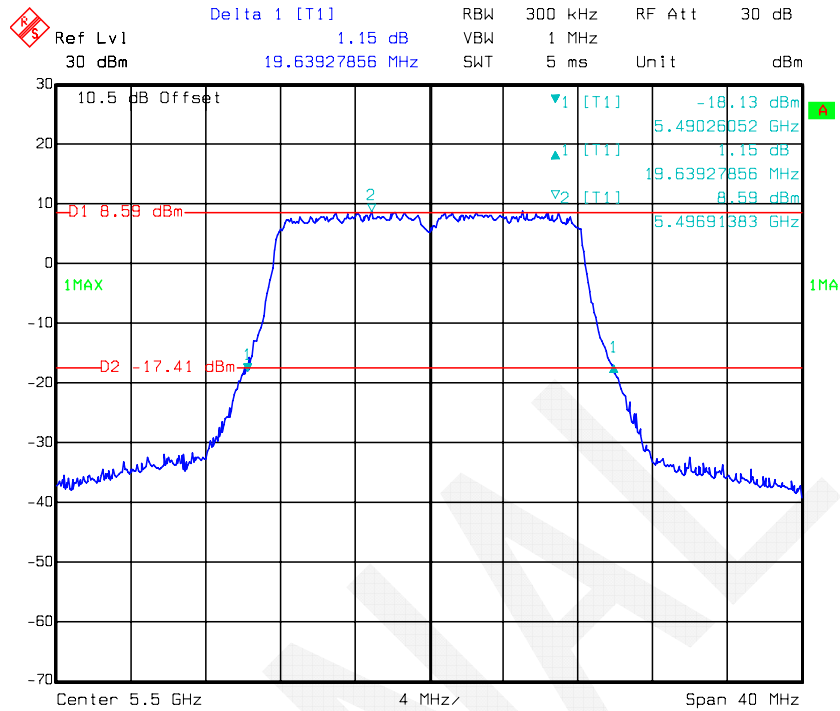
802.11ac80 mode, 99% Occupied Bandwidth-5290 MHz, Antenna 1



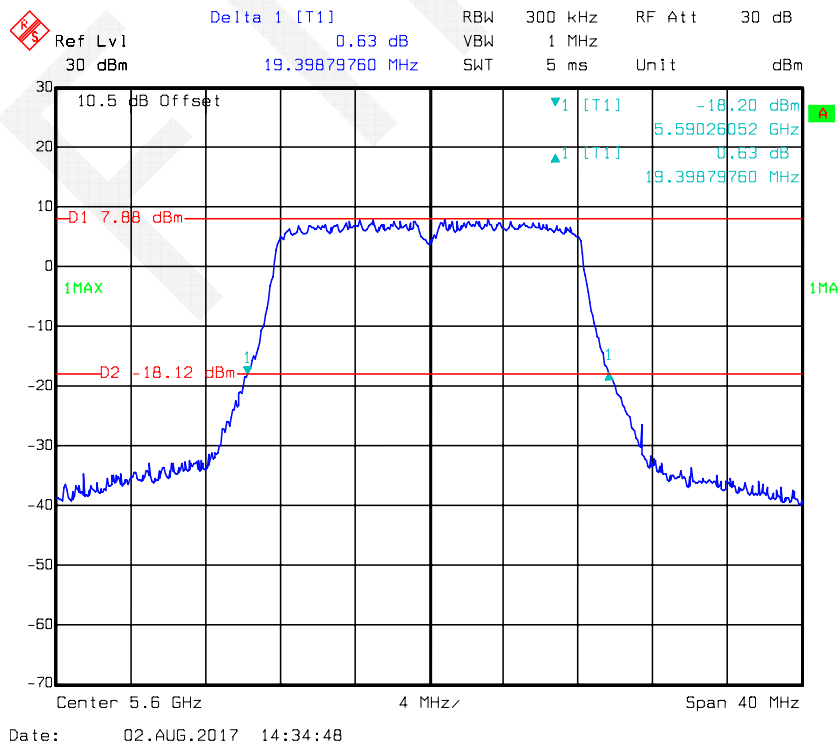
For 5470-5725 MHz:

Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)		99% Occupied Bandwidth (MHz)	
			Antenna 0	Antenna 1	Antenna 0	Antenna 1
802.11a	Low	5500	19.64	19.56	16.51	16.51
	Middle	5600	19.40	19.64	16.51	16.51
	High	5700	19.64	19.72	16.59	16.59
	Crossed	5720	19.48	19.56	16.51	16.51
802.11n-HT20	Low	5500	20.44	20.60	17.72	17.72
	Middle	5600	20.44	20.52	17.72	17.72
	High	5700	20.44	20.60	17.72	17.72
	Crossed	5720	20.68	20.76	17.80	17.72
802.11n-HT40	Low	5510	39.12	39.12	36.23	36.07
	Middle	5590	39.28	39.28	36.23	36.23
	High	5670	39.28	38.96	36.07	36.23
	Crossed	5710	39.12	39.12	35.91	35.91
802.11ac20	Low	5500	20.60	20.44	17.72	17.72
	Middle	5600	20.52	20.52	17.72	17.72
	High	5700	20.44	20.60	17.72	17.72
	Crossed	5720	20.44	20.60	17.72	17.72
802.11ac40	Low	5510	39.12	39.12	36.23	36.23
	Middle	5590	39.12	39.28	36.23	36.23
	High	5670	39.12	39.12	36.23	36.23
	Crossed	5710	39.44	38.95	35.91	36.55
802.11ac80	Low	5530	84.01	83.69	75.99	75.99
	High	5610	84.65	84.01	75.99	75.67
	Crossed	5690	84.33	83.37	75.99	75.67

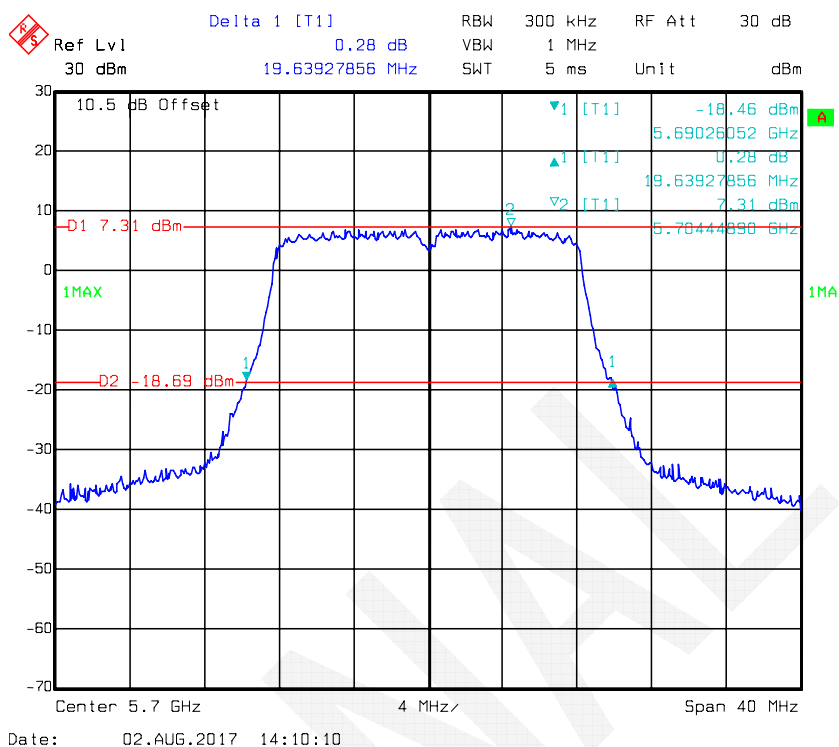
802.11a mode, 26 dB Bandwidth-5500 MHz, Antenna 0



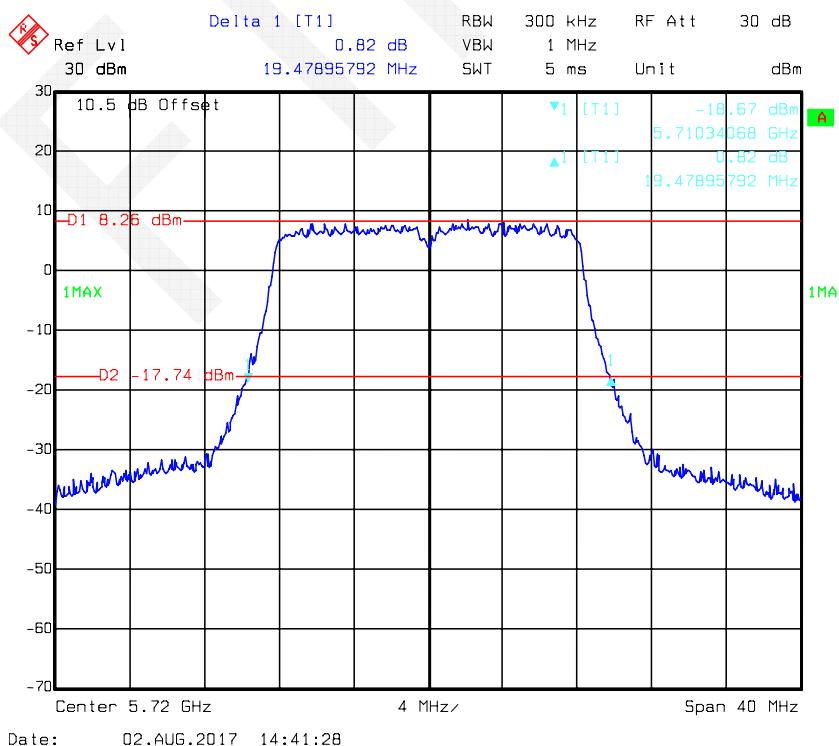
802.11a mode, 26 dB Bandwidth-5600 MHz, Antenna 0



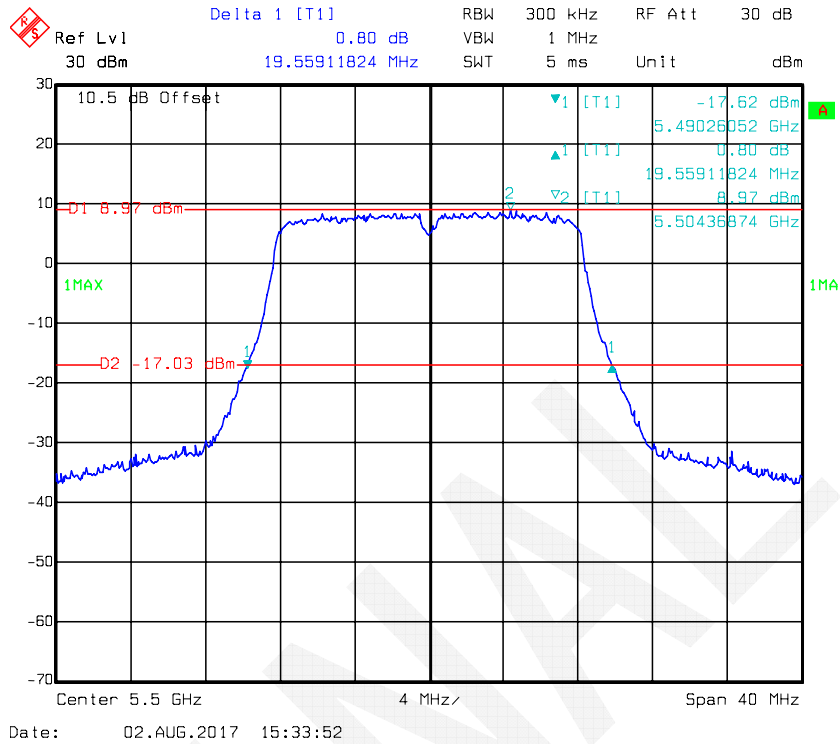
802.11a mode, 26 dB Bandwidth-5700 MHz, Antenna 0



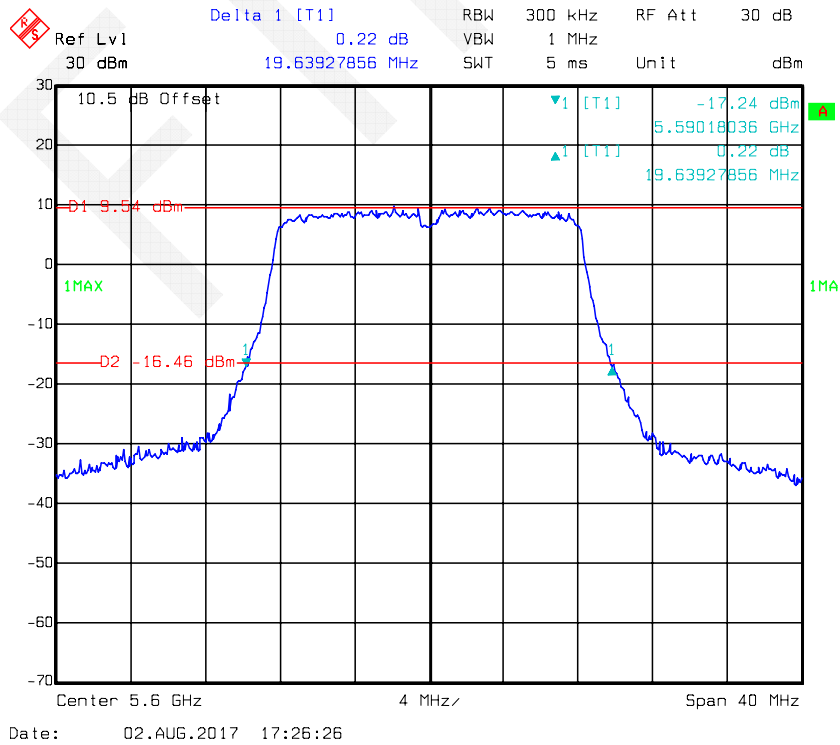
802.11a mode, 26 dB Bandwidth-5720 MHz, Antenna 0



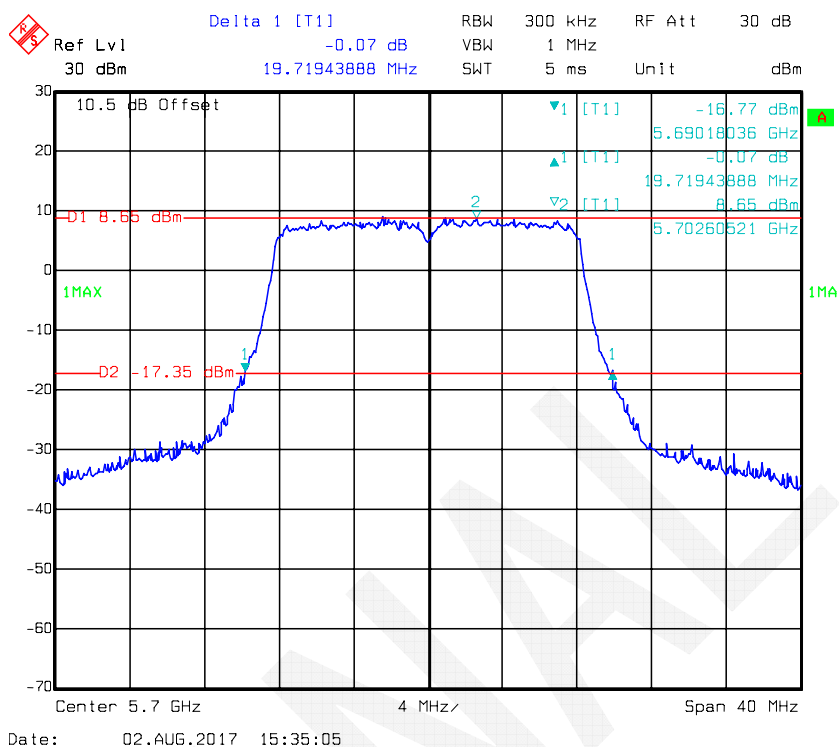
802.11a mode, 26 dB Bandwidth-5500 MHz, Antenna 1



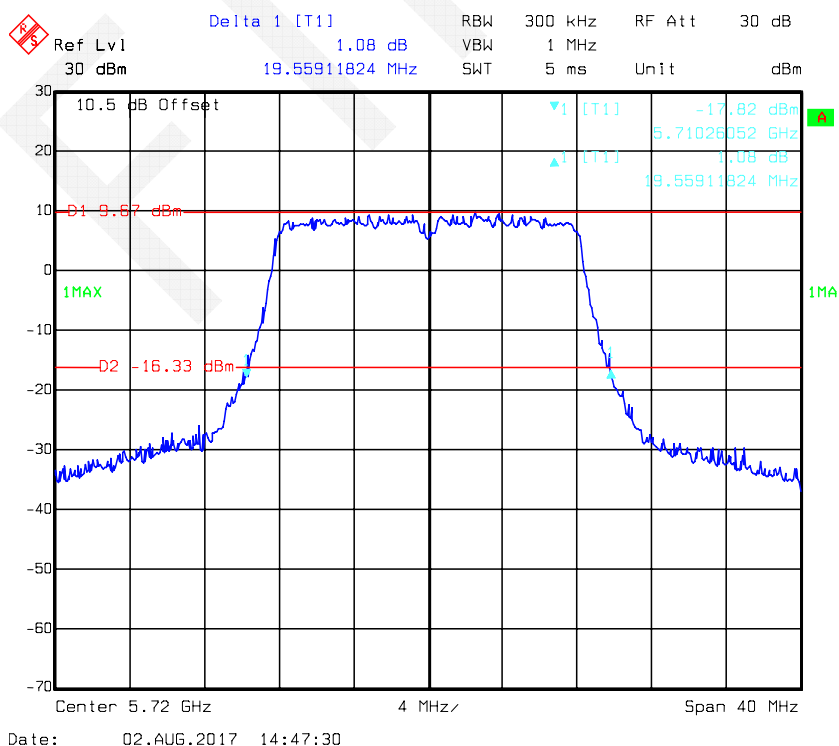
802.11a mode, 26 dB Bandwidth-5600 MHz, Antenna 1



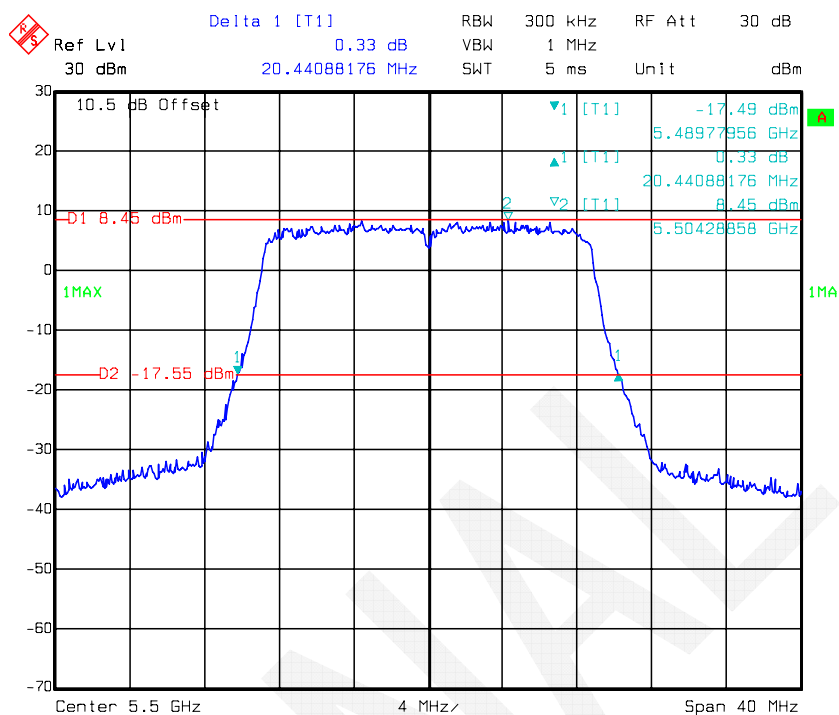
802.11a mode, 26 dB Bandwidth-5700 MHz, Antenna 1



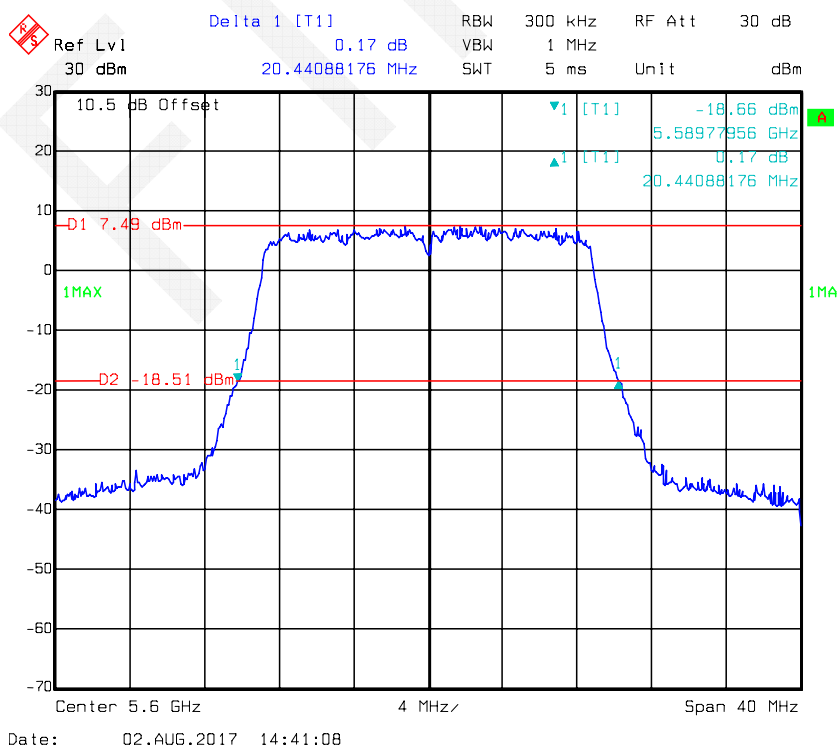
802.11a mode, 26 dB Bandwidth-5720 MHz, Antenna 1



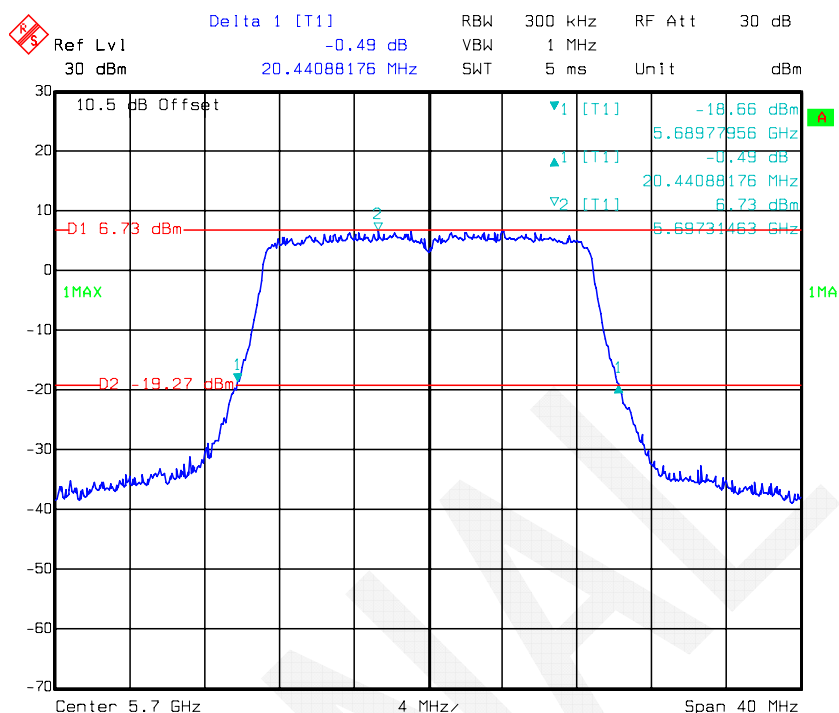
802.11n-HT20 mode, 26 dB Bandwidth-5500 MHz, Antenna 0



802.11n-HT20 mode, 26 dB Bandwidth-5600 MHz, Antenna 0

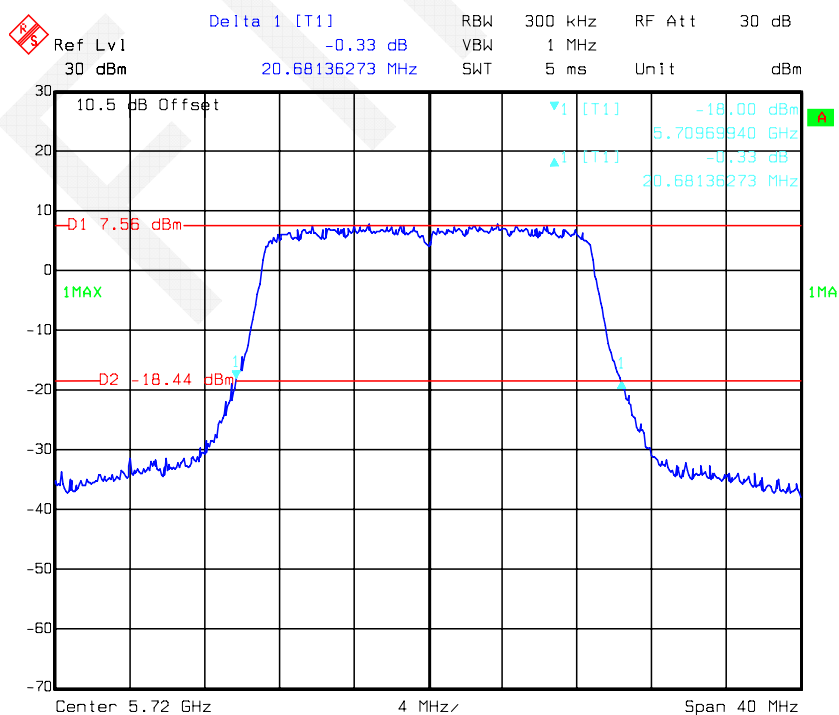


802.11n-HT20 mode, 26 dB Bandwidth-5700 MHz, Antenna 0



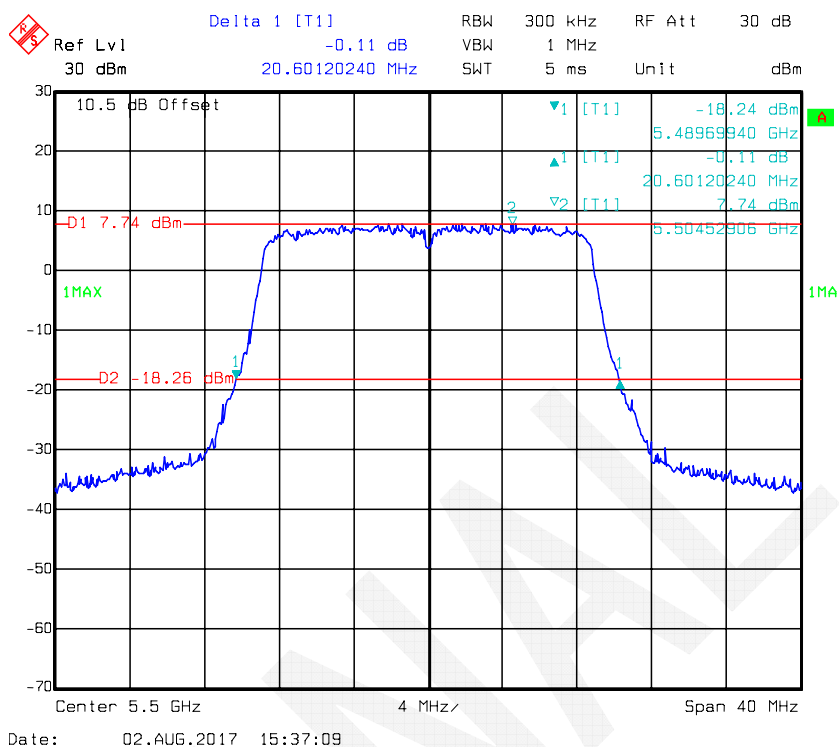
Date: 02.AUG.2017 14:16:38

802.11n-HT20 mode, 26 dB Bandwidth-5720 MHz, Antenna 0

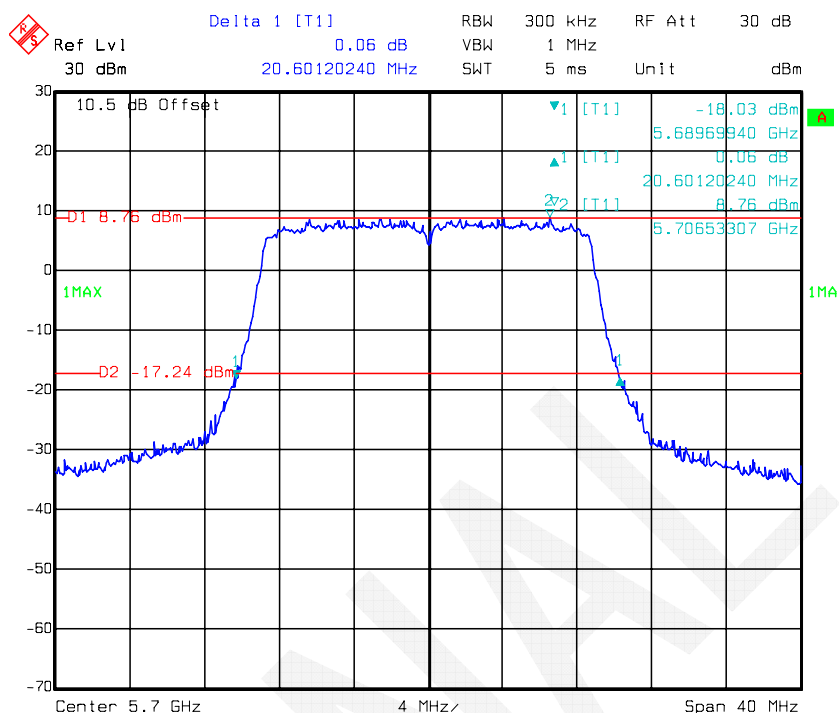


Date: 02.AUG.2017 14:39:21

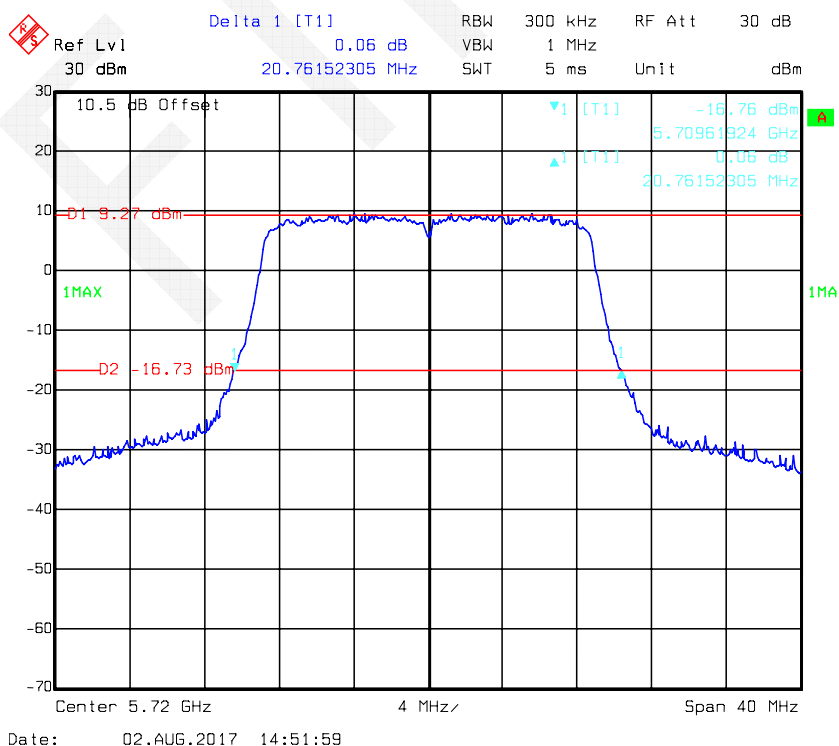
802.11n-HT20 mode, 26 dB Bandwidth-5500 MHz, Antenna 1



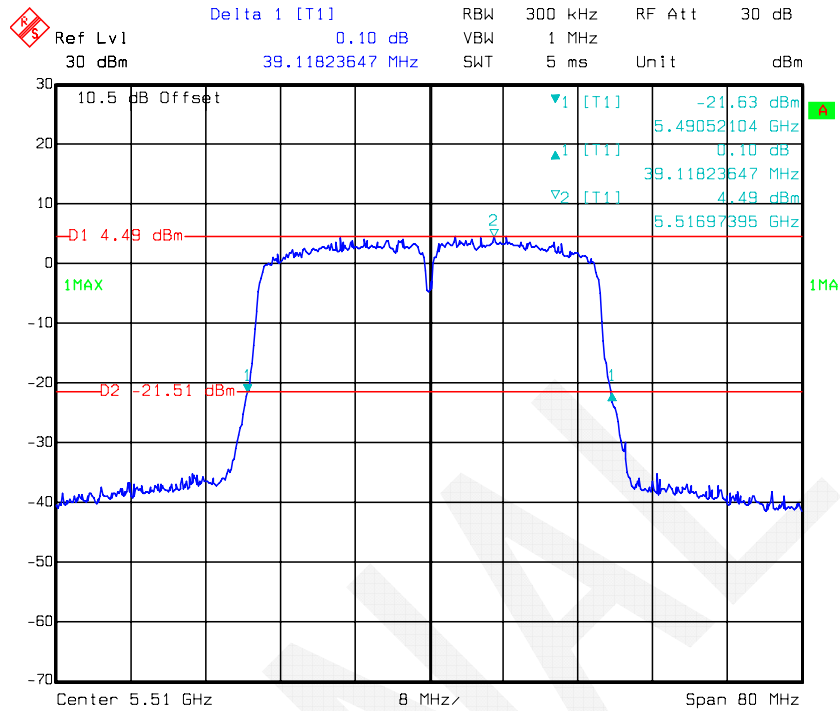
802.11n-HT20 mode, 26 dB Bandwidth-5700 MHz, Antenna 1



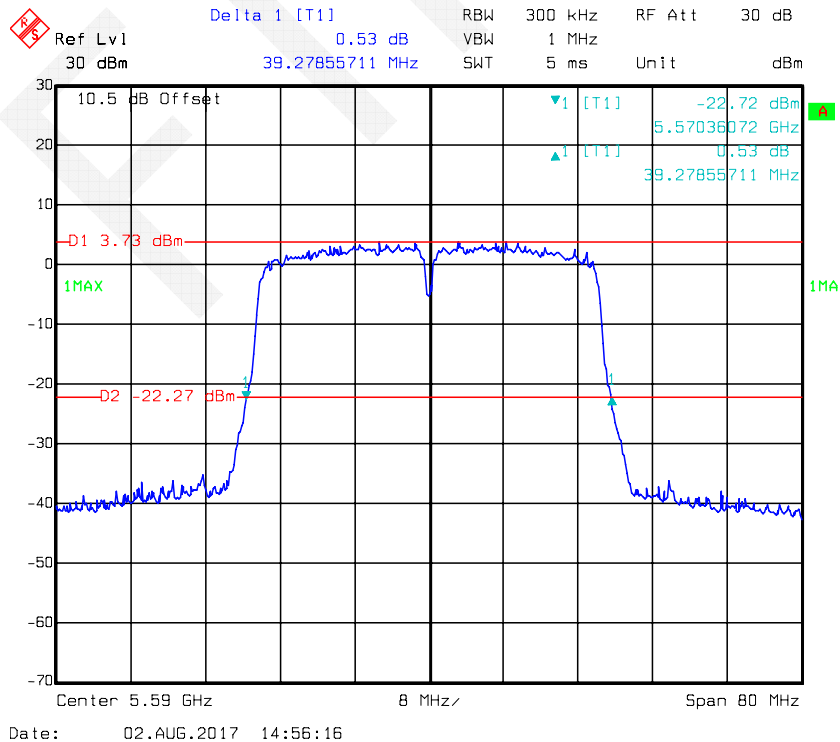
802.11n-HT20 mode, 26 dB Bandwidth-5720 MHz, Antenna 1



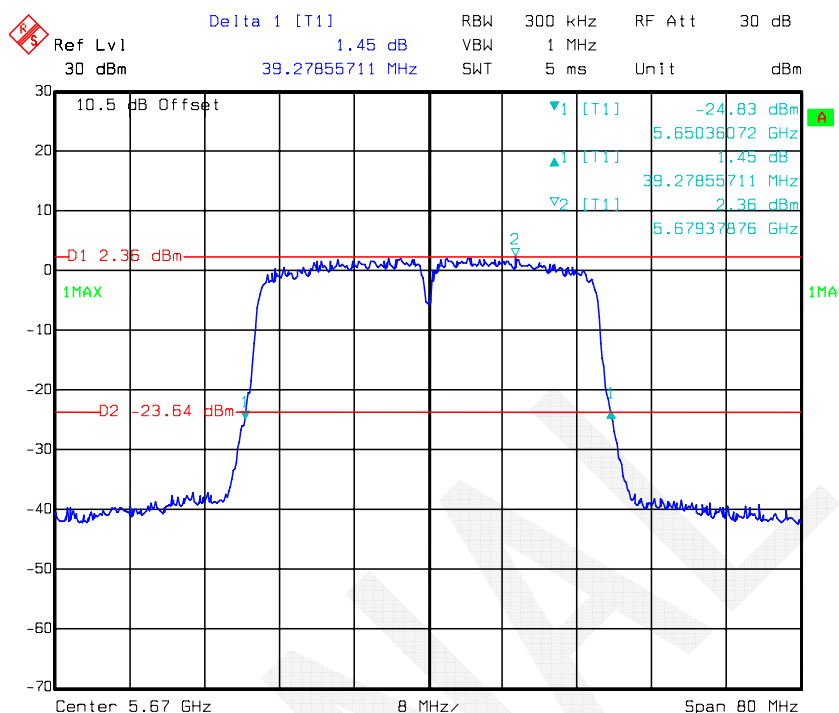
802.11n-HT40 mode, 26 dB Bandwidth-5510 MHz, Antenna 0



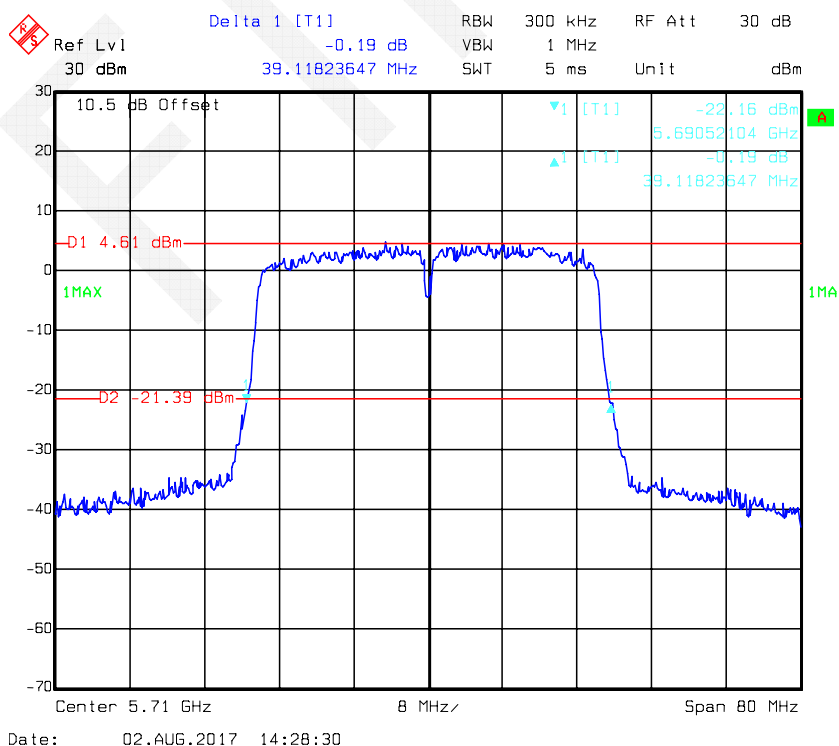
802.11n-HT40 mode, 26 dB Bandwidth-5590 MHz, Antenna 0



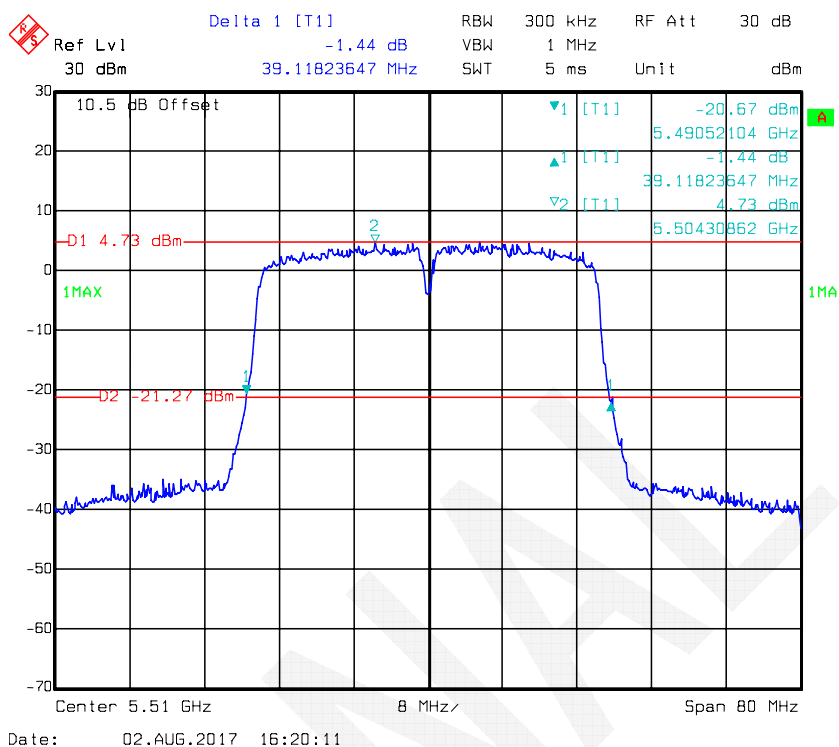
802.11n-HT40 mode, 26 dB Bandwidth-5670 MHz, Antenna 0



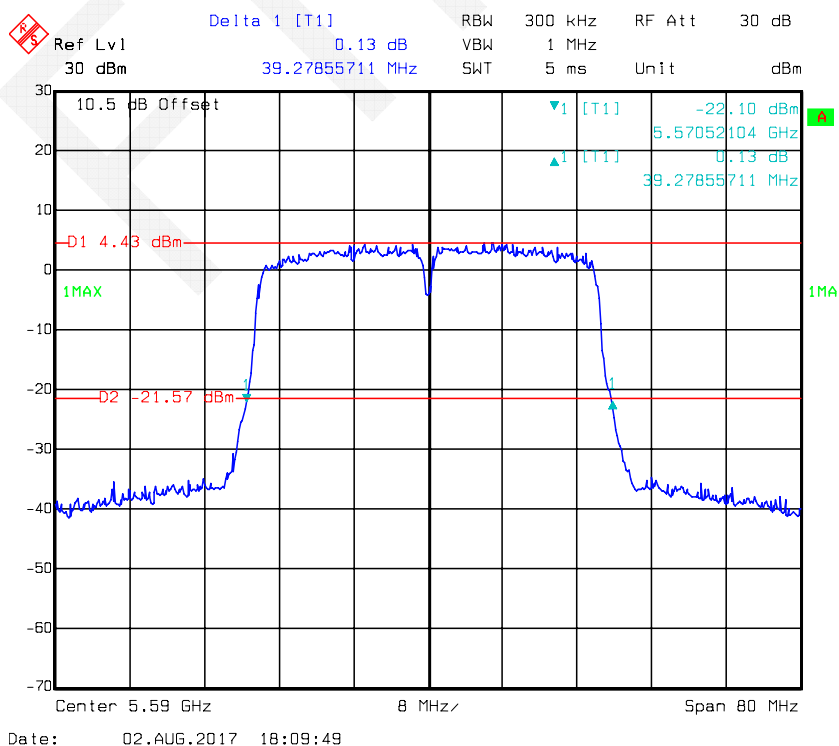
802.11n-HT40 mode, 26 dB Bandwidth-5710 MHz, Antenna 0



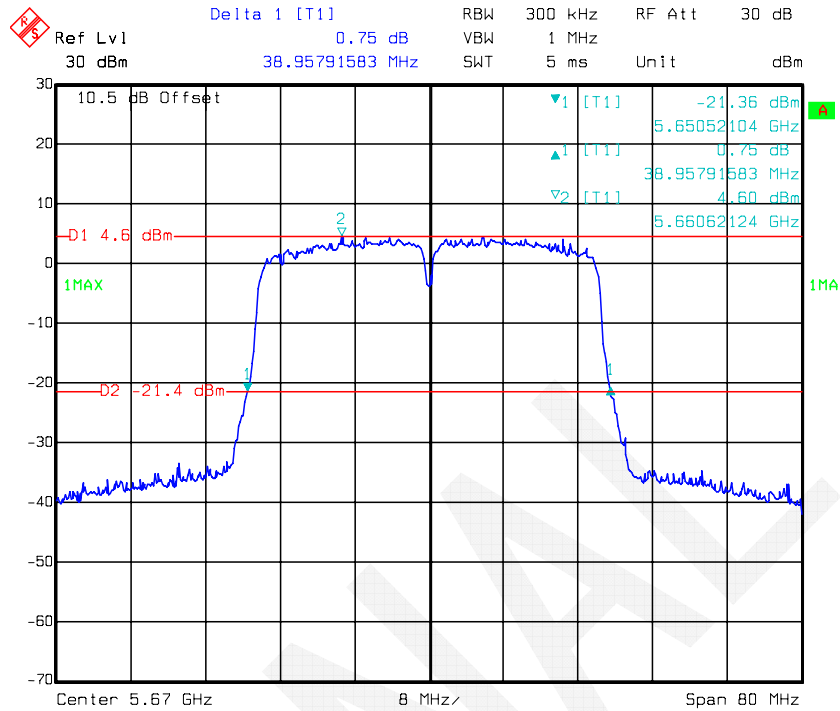
802.11n-HT40 mode, 26 dB Bandwidth-5510 MHz, Antenna 1



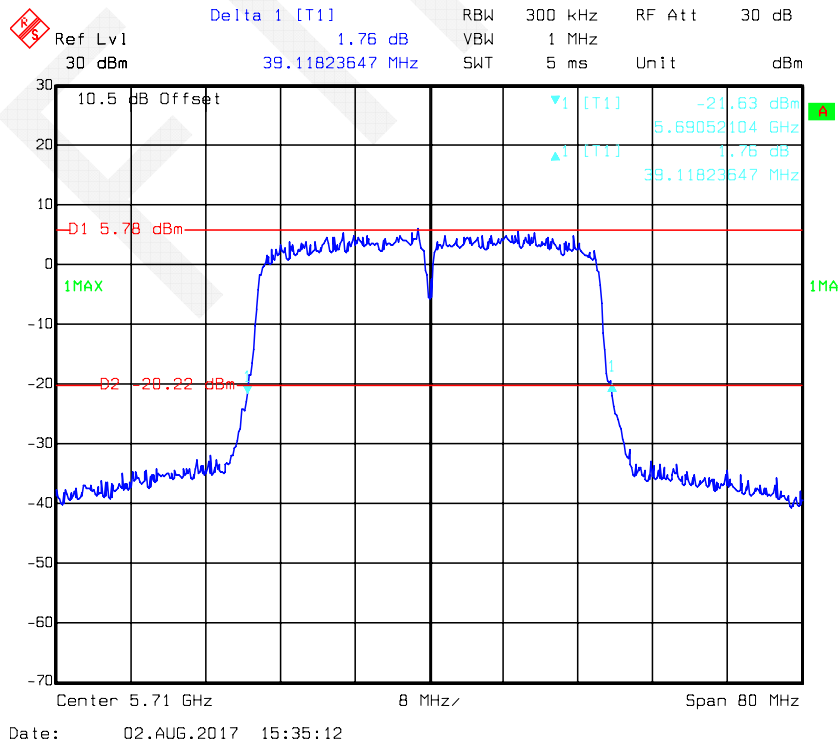
802.11n-HT40 mode, 26 dB Bandwidth-5590 MHz, Antenna 1



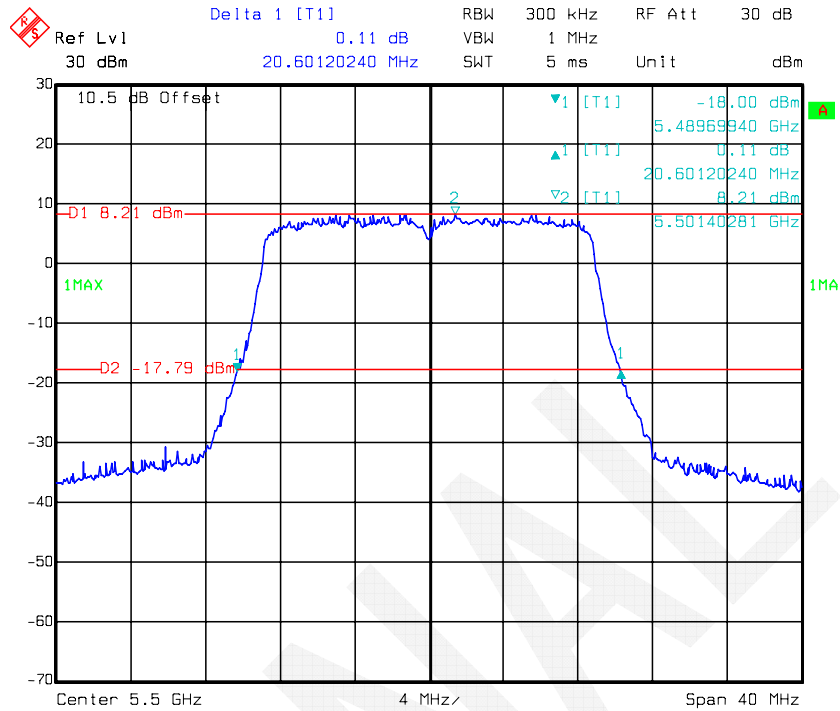
802.11n-HT40 mode, 26 dB Bandwidth-5670 MHz, Antenna 1



802.11n-HT40 mode, 26 dB Bandwidth-5710 MHz, Antenna 1

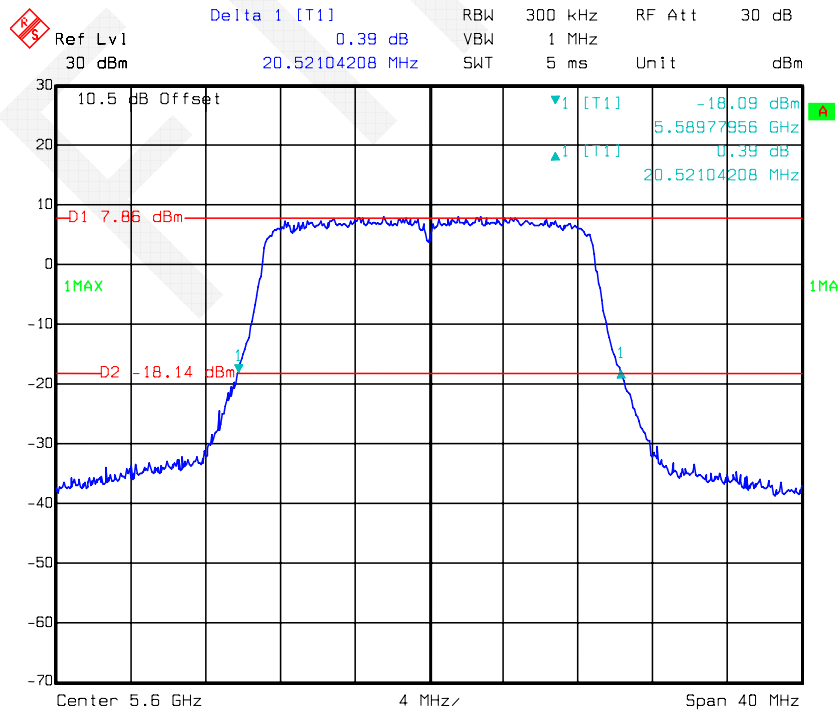


802.11ac20 mode, 26 dB Bandwidth-5500 MHz, Antenna 0



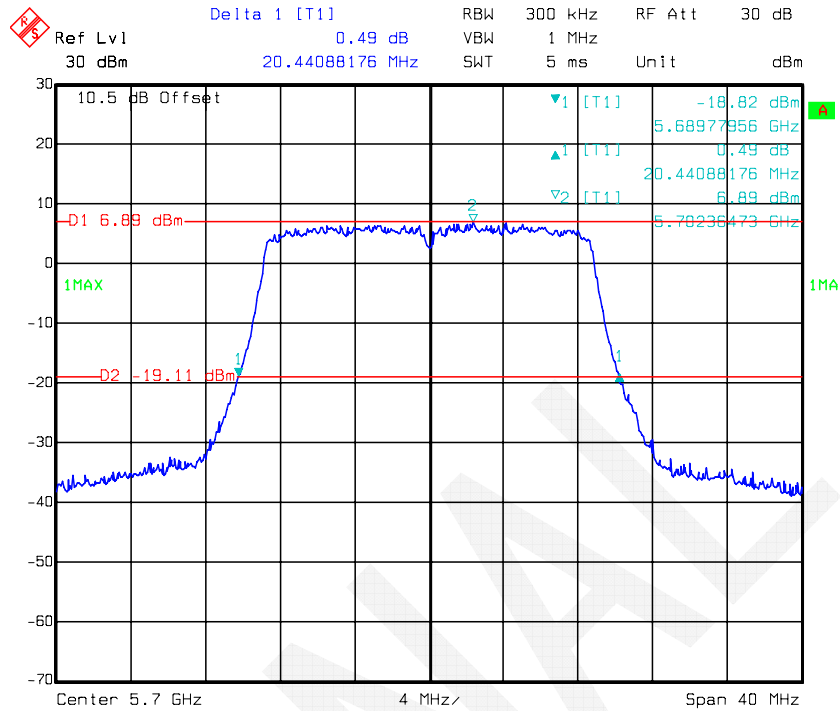
Date: 02.AUG.2017 14:12:26

802.11ac20 mode, 26 dB Bandwidth-5600 MHz, Antenna 0

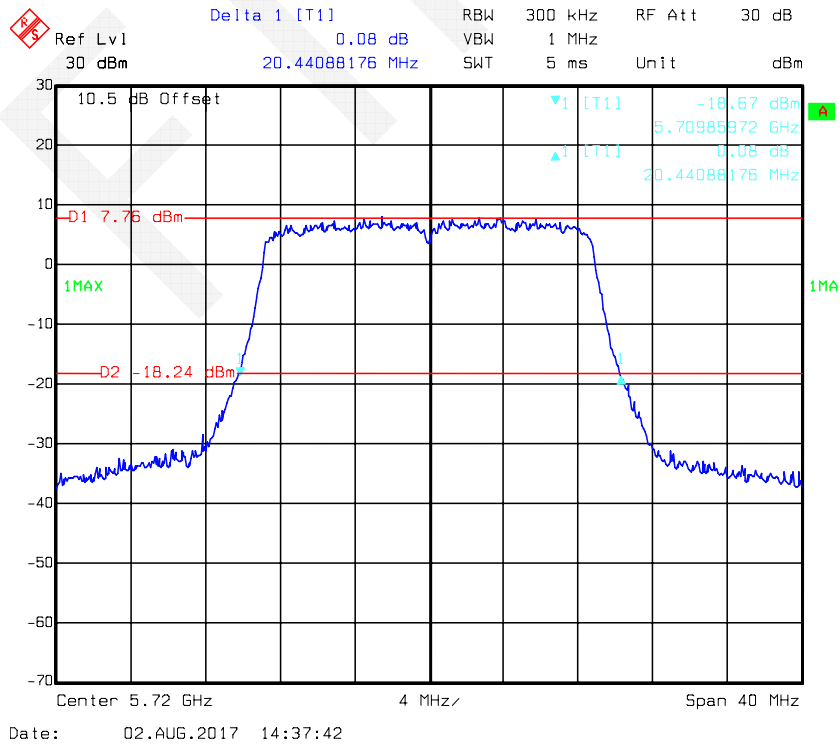


Date: 02.AUG.2017 14:46:04

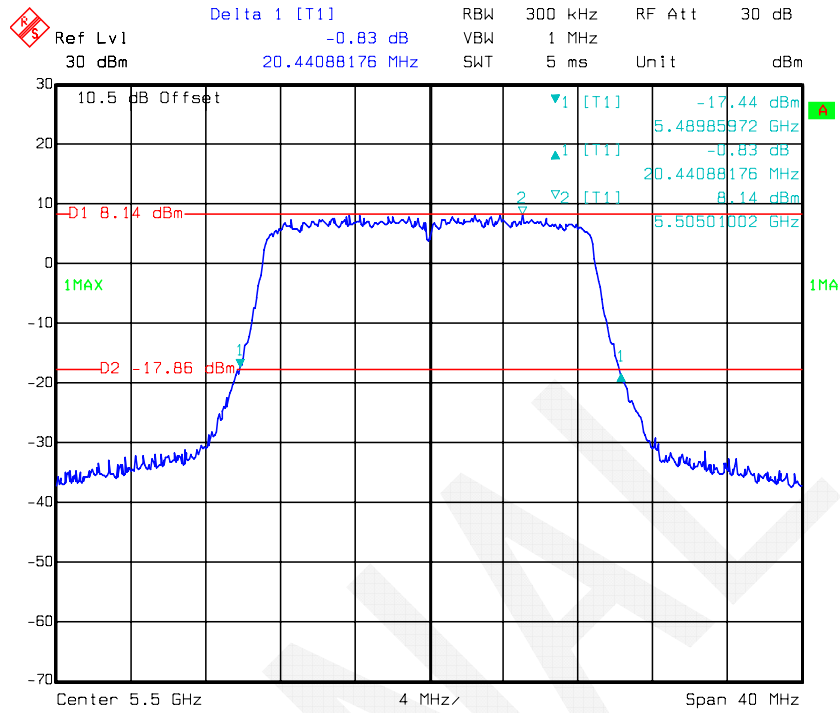
802.11ac20 mode, 26 dB Bandwidth-5700 MHz, Antenna 0



802.11ac20 mode, 26 dB Bandwidth-5720 MHz, Antenna 0

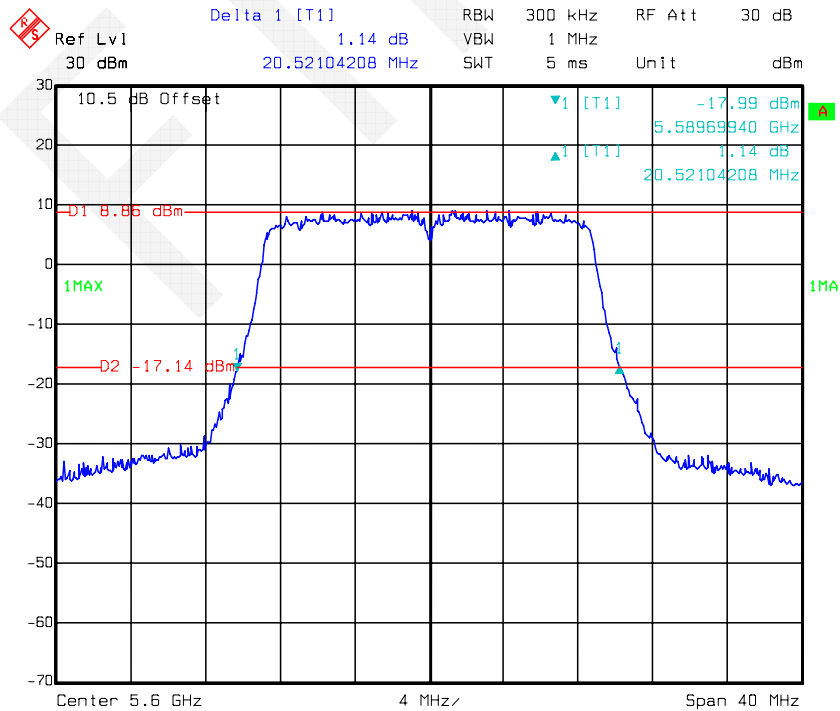


802.11ac20 mode, 26 dB Bandwidth-5500 MHz, Antenna 1



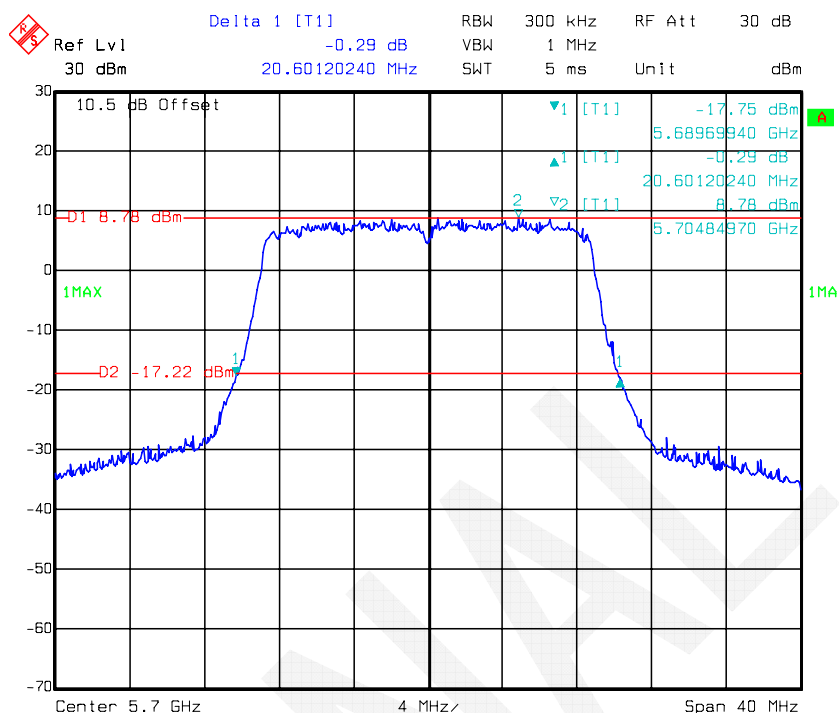
Date: 02.AUG.2017 15:42:14

802.11ac20 mode, 26 dB Bandwidth-5600 MHz, Antenna 1



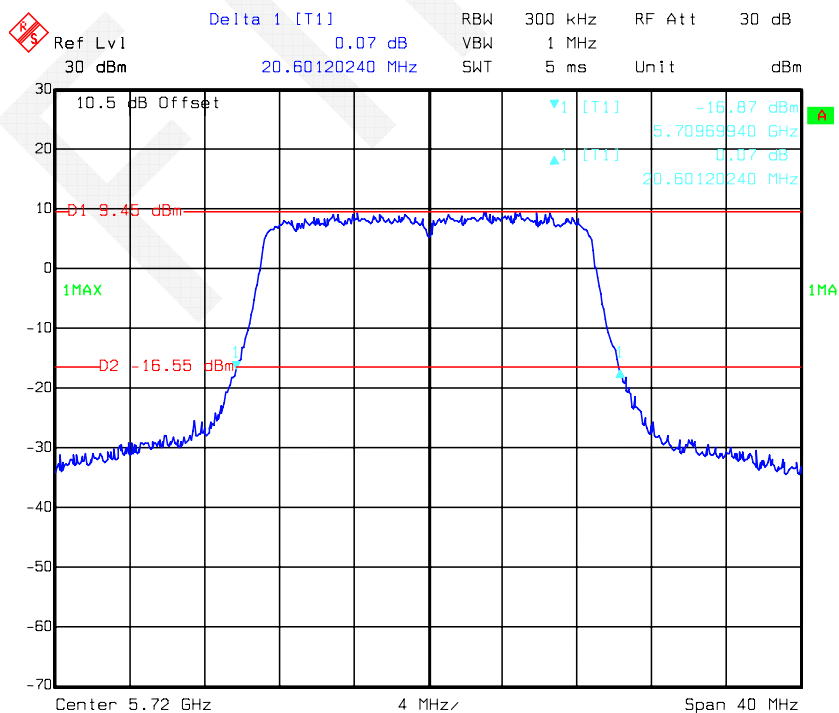
Date: 02.AUG.2017 17:43:11

802.11ac20 mode, 26 dB Bandwidth-5700 MHz, Antenna 1



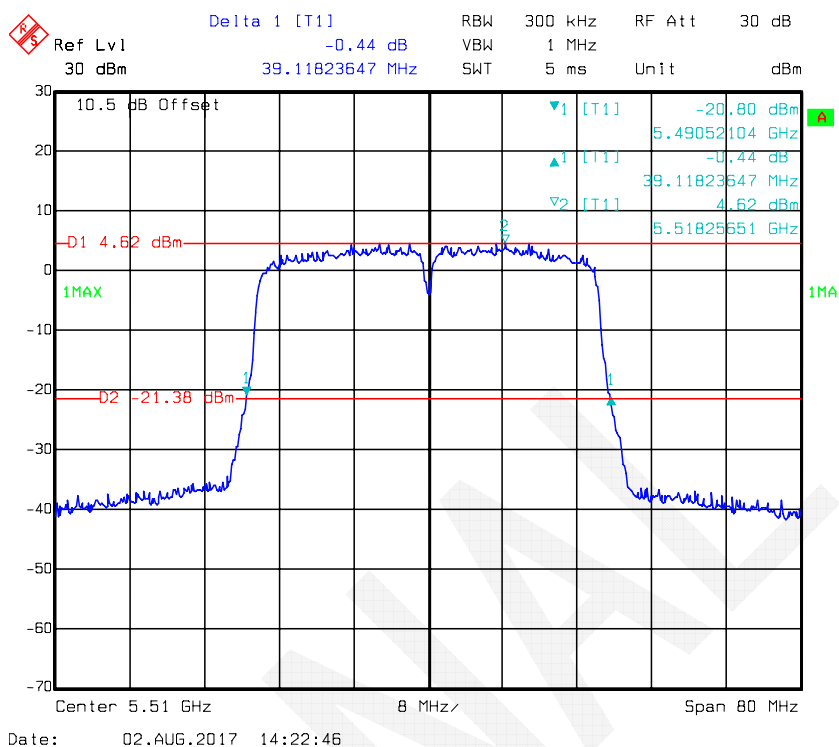
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802.11ac20 mode, 26 dB Bandwidth-5720 MHz, Antenna 1

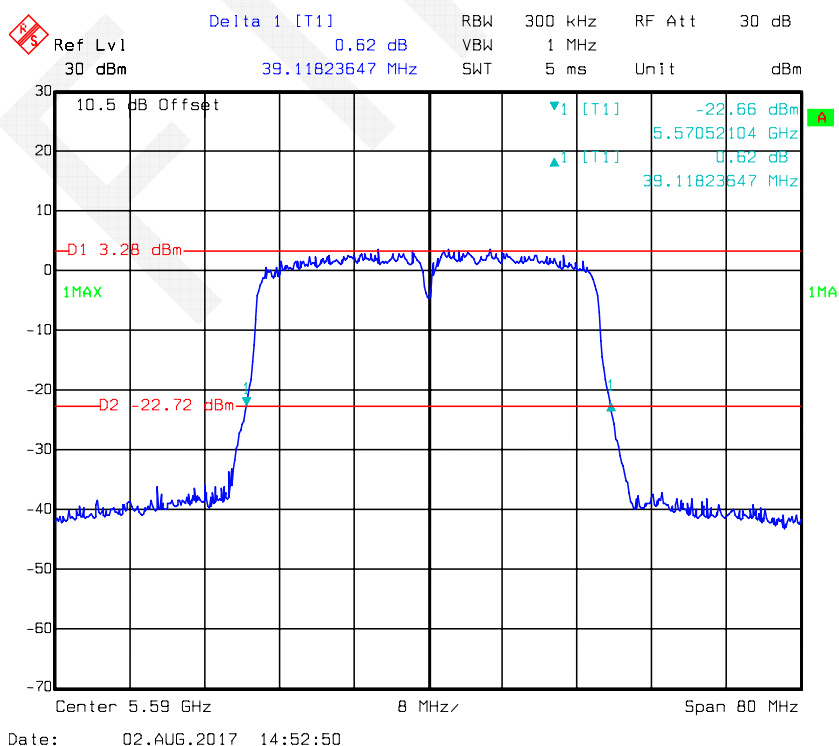


Date: 02.AUG.2017 14:54:03

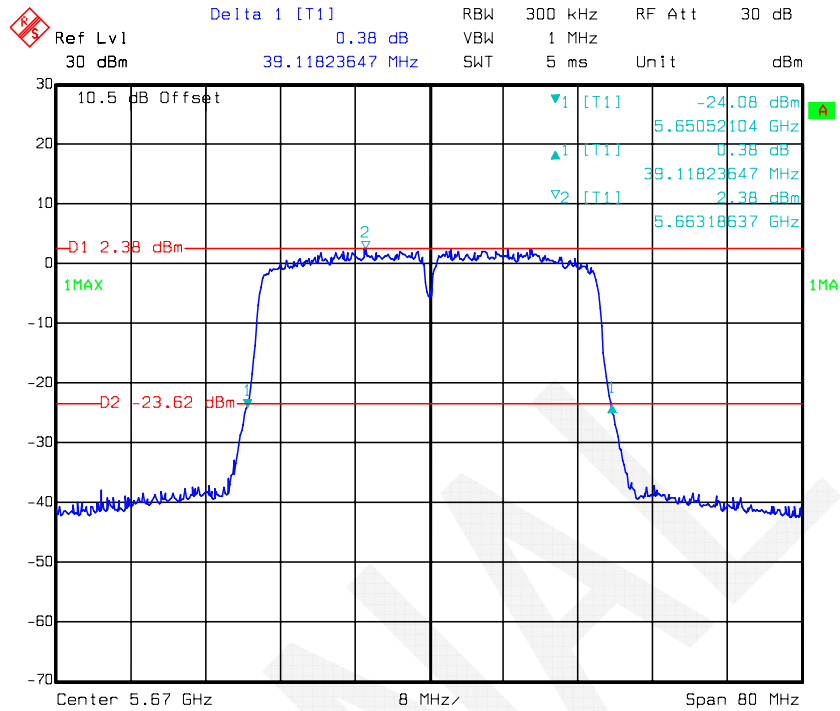
802.11ac40 mode, 26 dB Bandwidth-5510 MHz, Antenna 0



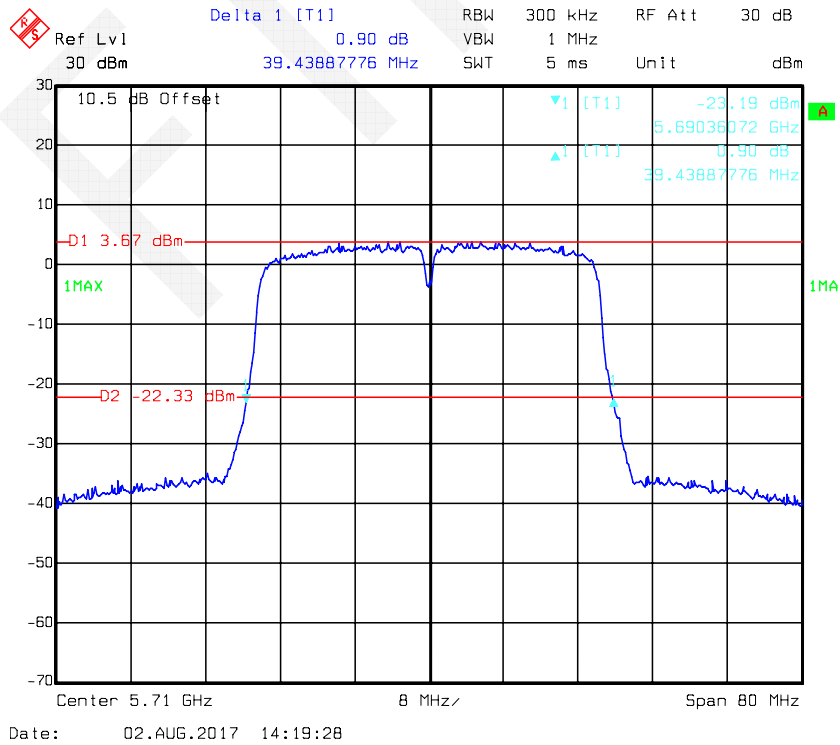
802.11ac40 mode, 26 dB Bandwidth-5590 MHz, Antenna 0



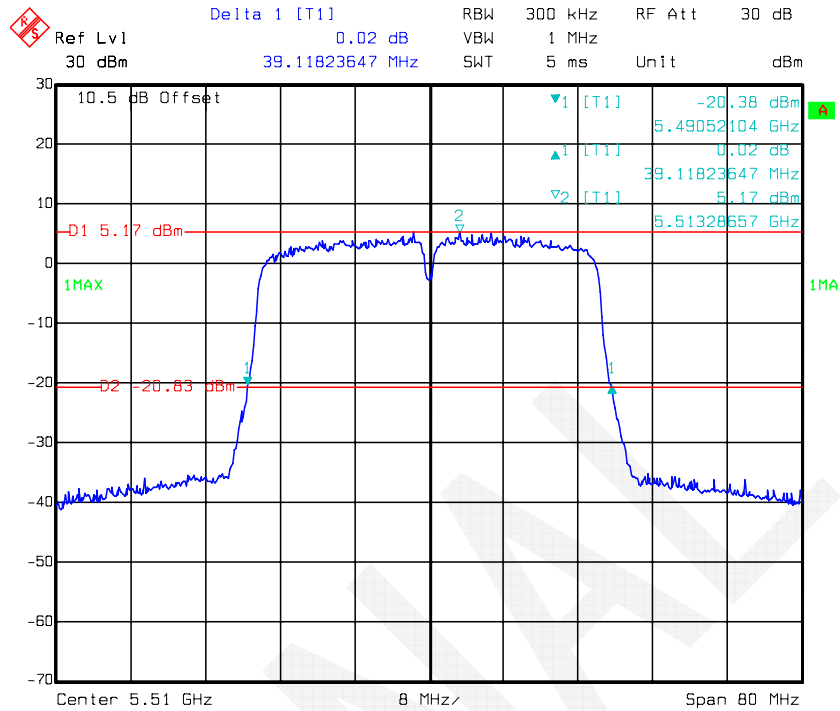
802.11ac40 mode, 26 dB Bandwidth-5670 MHz, Antenna 0



802.11ac40 mode, 26 dB Bandwidth-5710 MHz, Antenna 0

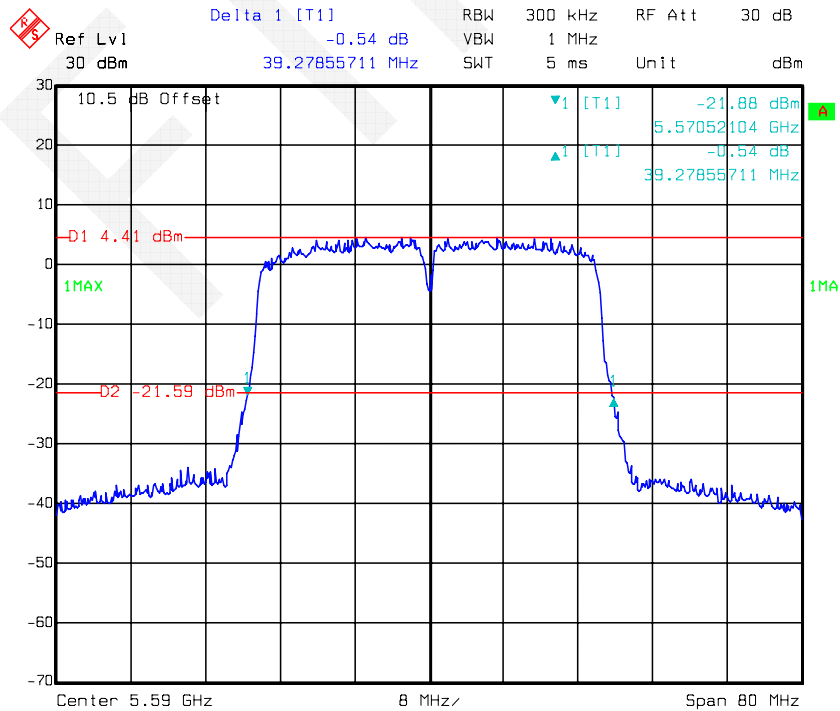


802.11ac40 mode, 26 dB Bandwidth-5510 MHz, Antenna 1



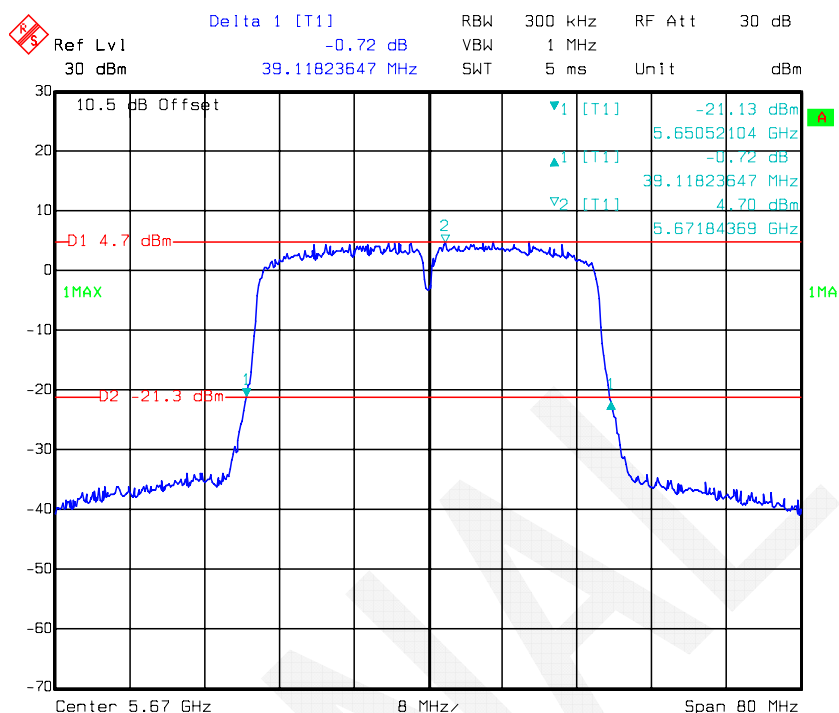
Date: 02.AUG.2017 16:10:23

802.11ac40 mode, 26 dB Bandwidth-5590 MHz, Antenna 1

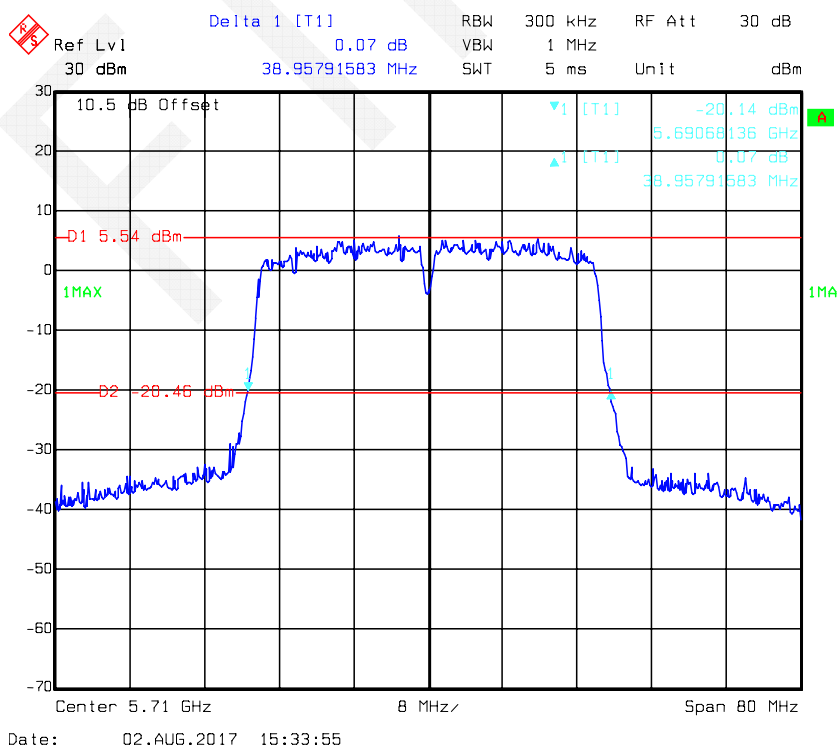


Date: 02.AUG.2017 18:04:40

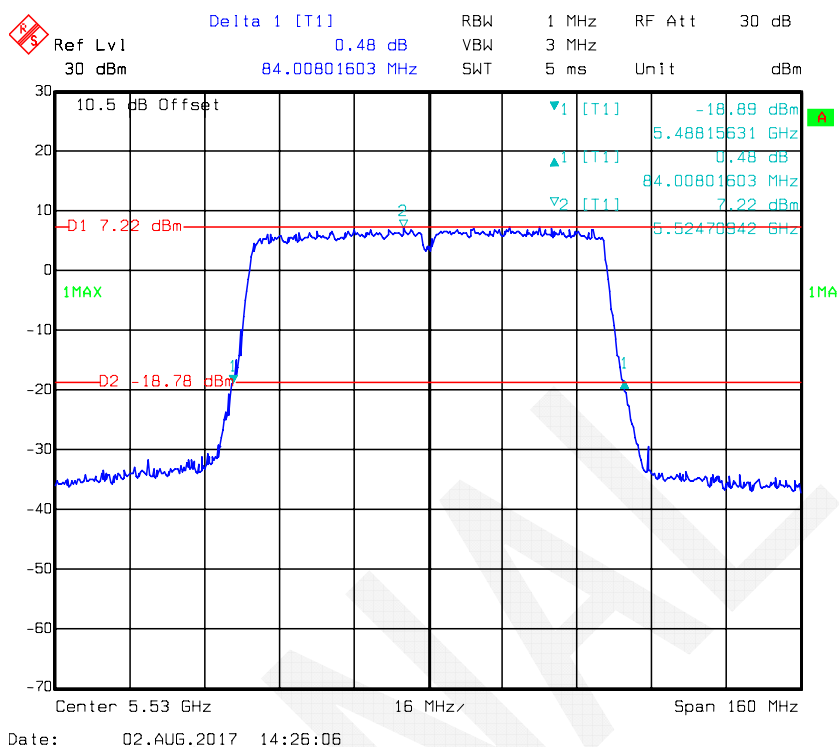
802.11ac40 mode, 26 dB Bandwidth-5670 MHz, Antenna 1



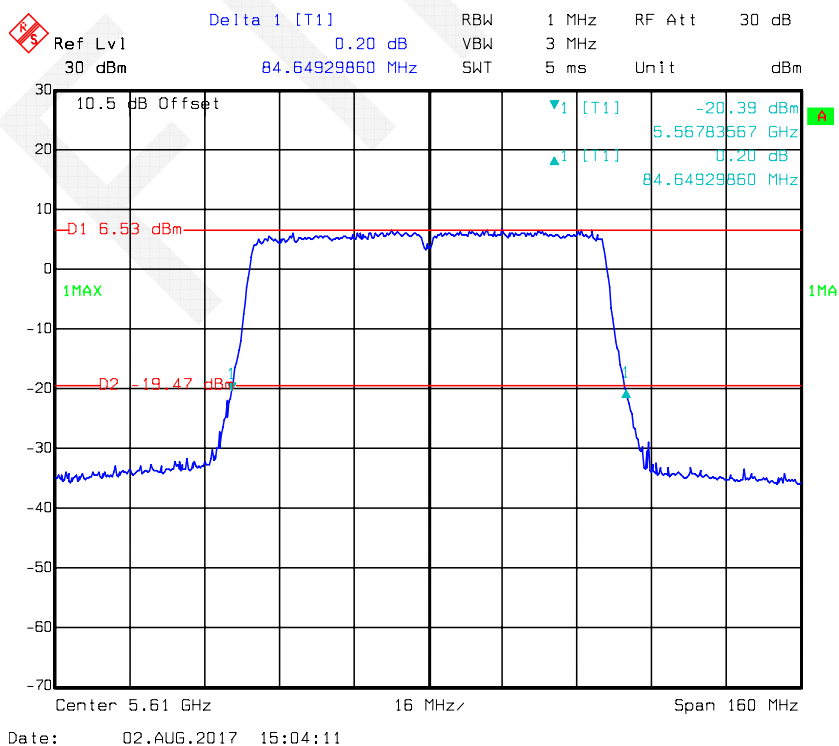
802.11ac40 mode, 26 dB Bandwidth-5710 MHz, Antenna 1



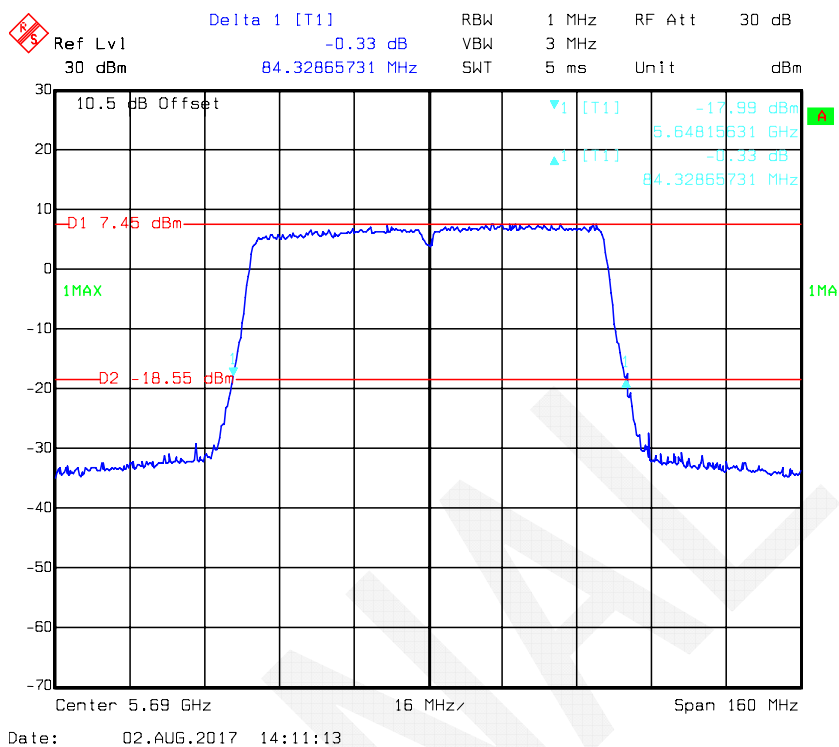
802.11ac80 mode, 26 dB Bandwidth-5530 MHz, Antenna 0



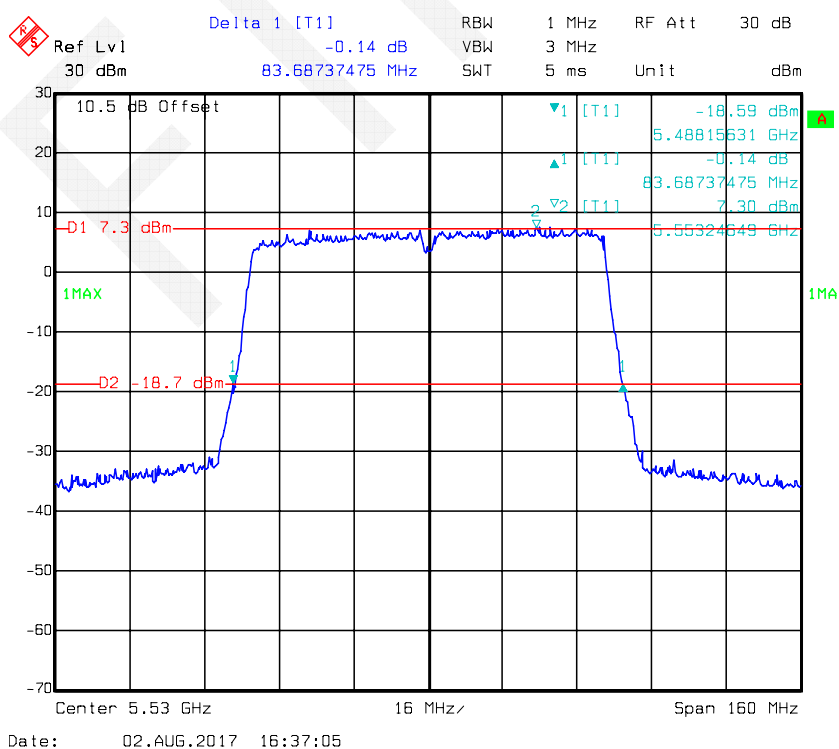
802.11ac80 mode, 26 dB Bandwidth-5610 MHz, Antenna 0



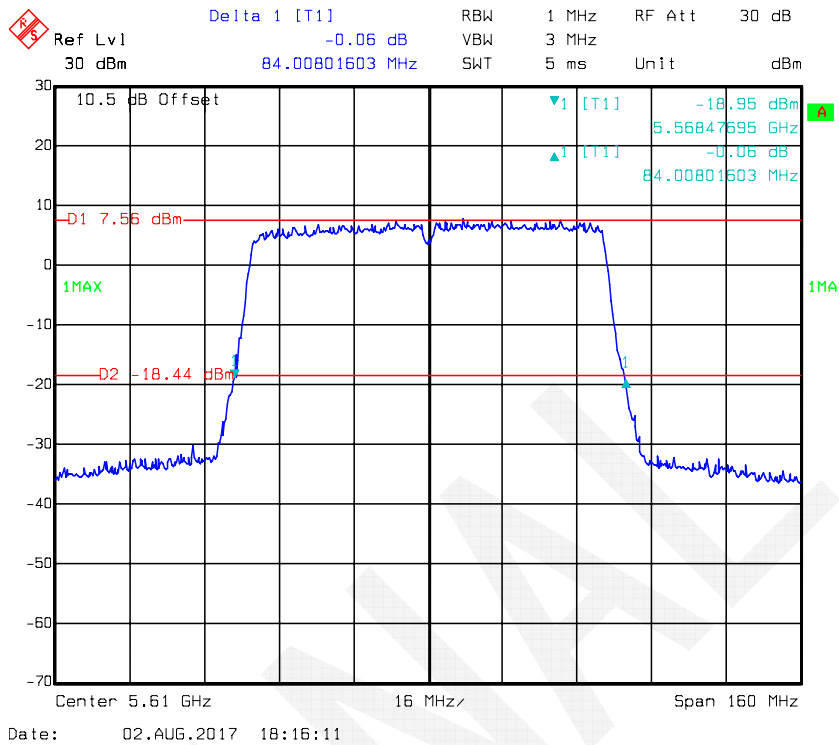
802.11ac80 mode, 26 dB Bandwidth-5690 MHz, Antenna 0



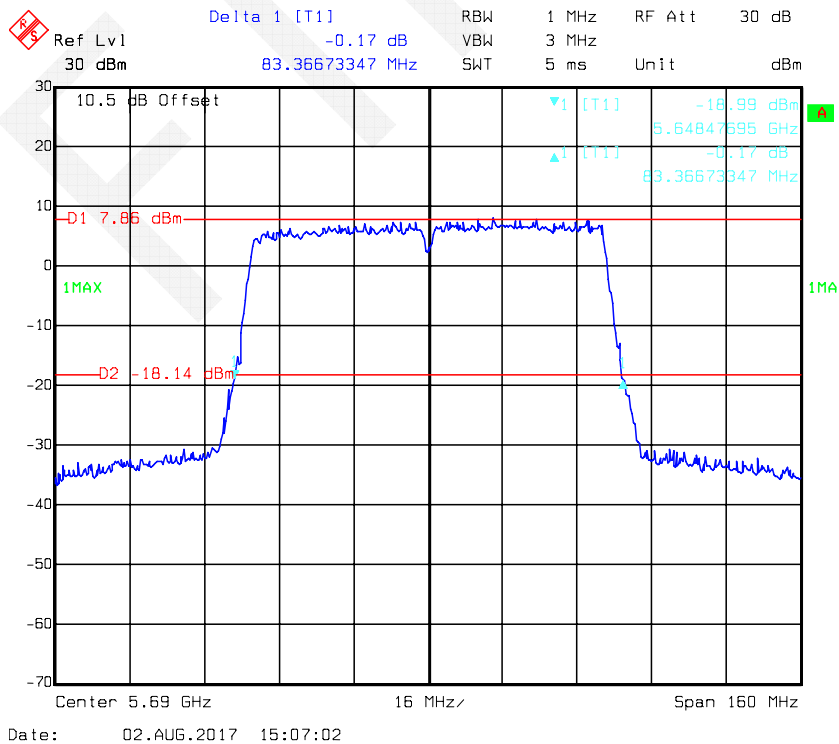
802.11ac80 mode, 26 dB Bandwidth-5530 MHz, Antenna 1



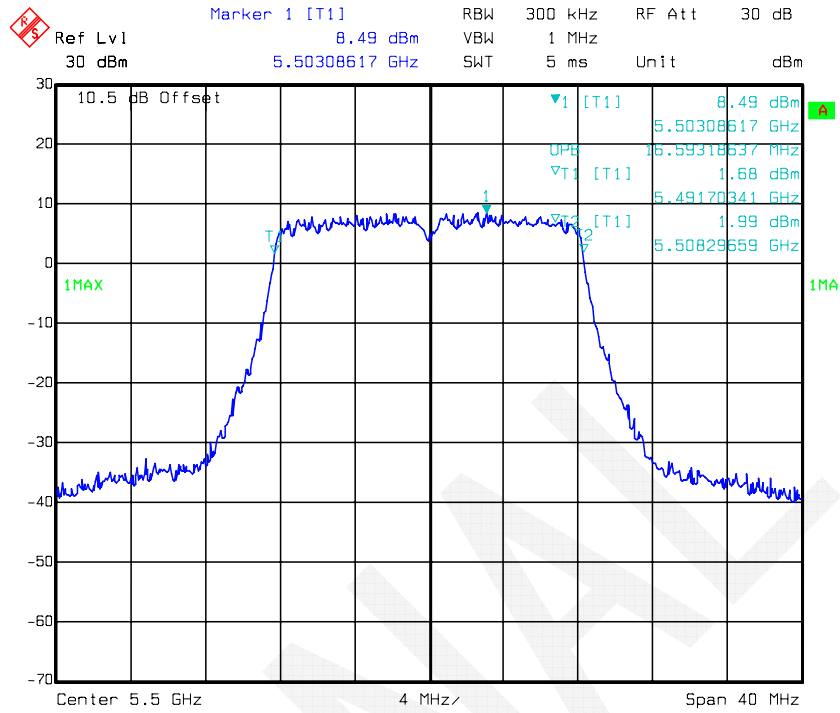
802.11ac80 mode, 26 dB Bandwidth-5610 MHz, Antenna 1



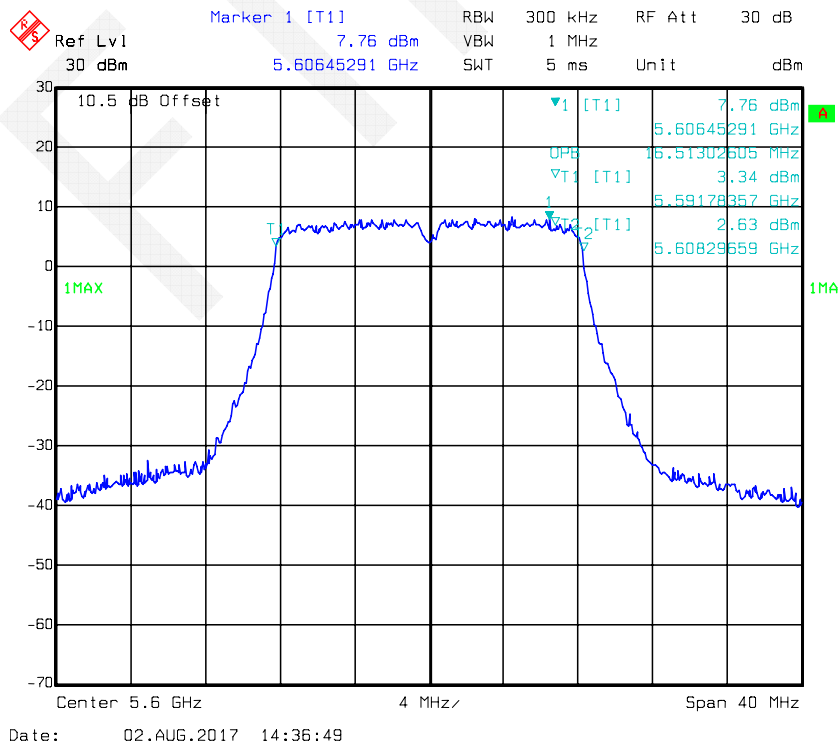
802.11ac80 mode, 26 dB Bandwidth-5690 MHz, Antenna 1



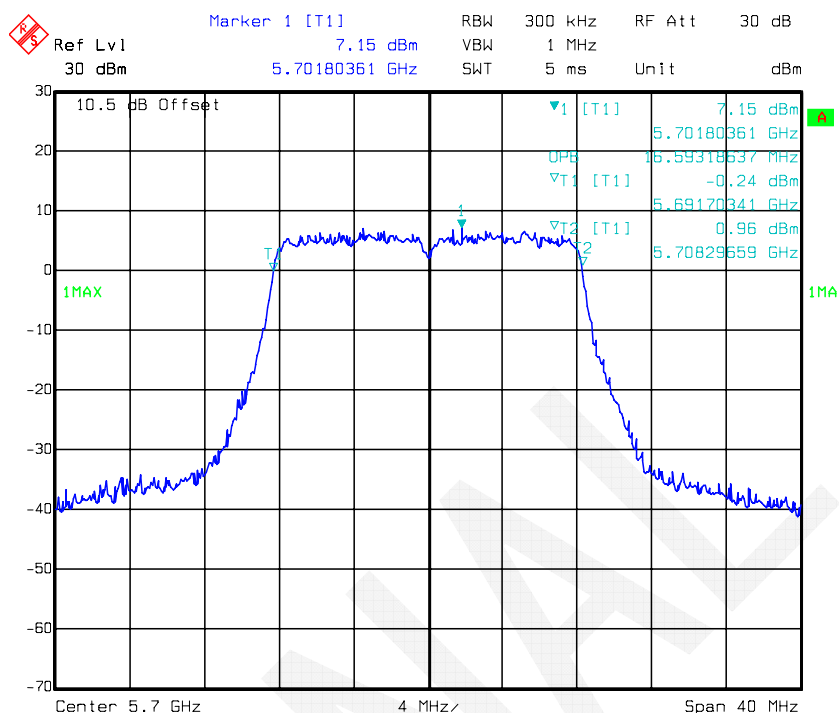
802.11a mode, 99% Occupied Bandwidth-5500 MHz, Antenna 0



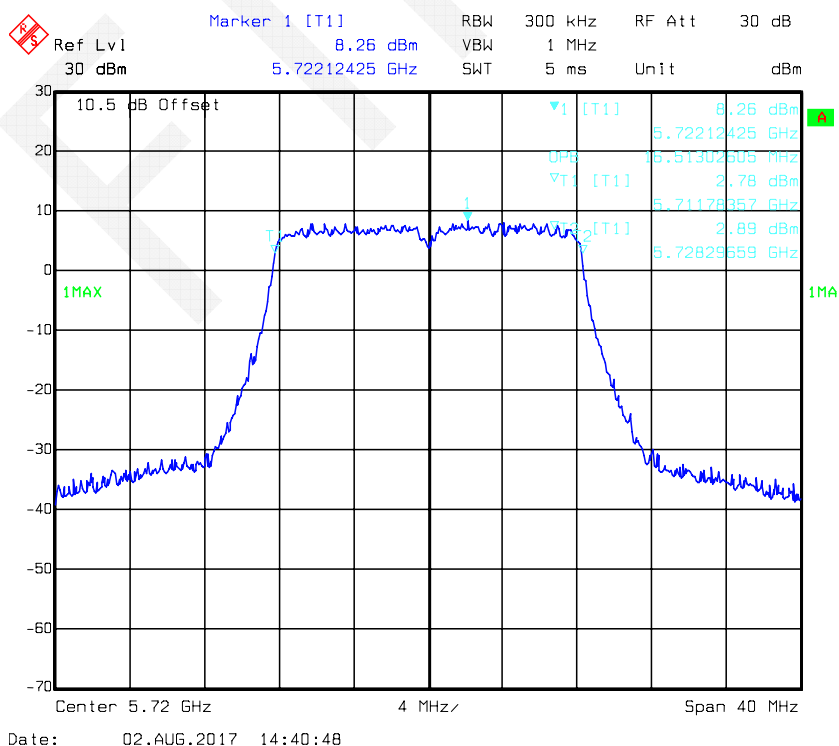
802.11a mode, 99% Occupied Bandwidth -5600 MHz, Antenna 0



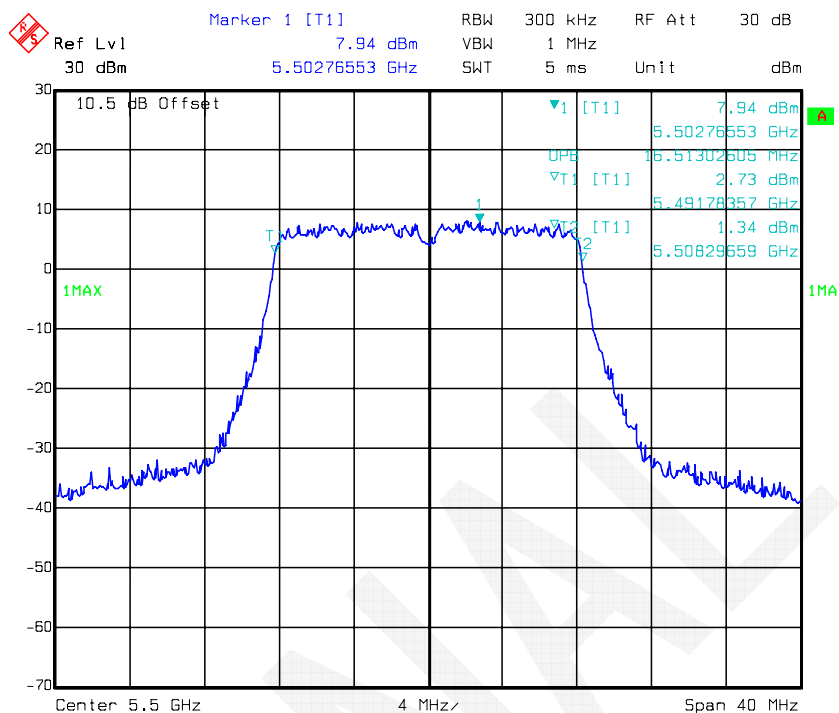
802.11a mode, 99% Occupied Bandwidth -5700 MHz, Antenna 0



802.11a mode, 99% Occupied Bandwidth -5720 MHz, Antenna 0

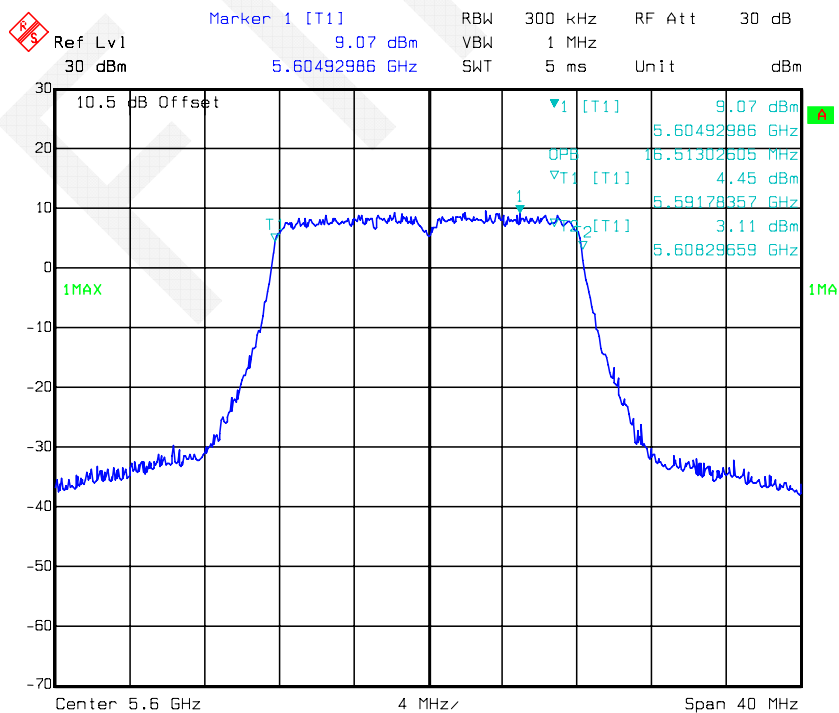


802.11a mode, 99% Occupied Bandwidth-5500 MHz, Antenna 1



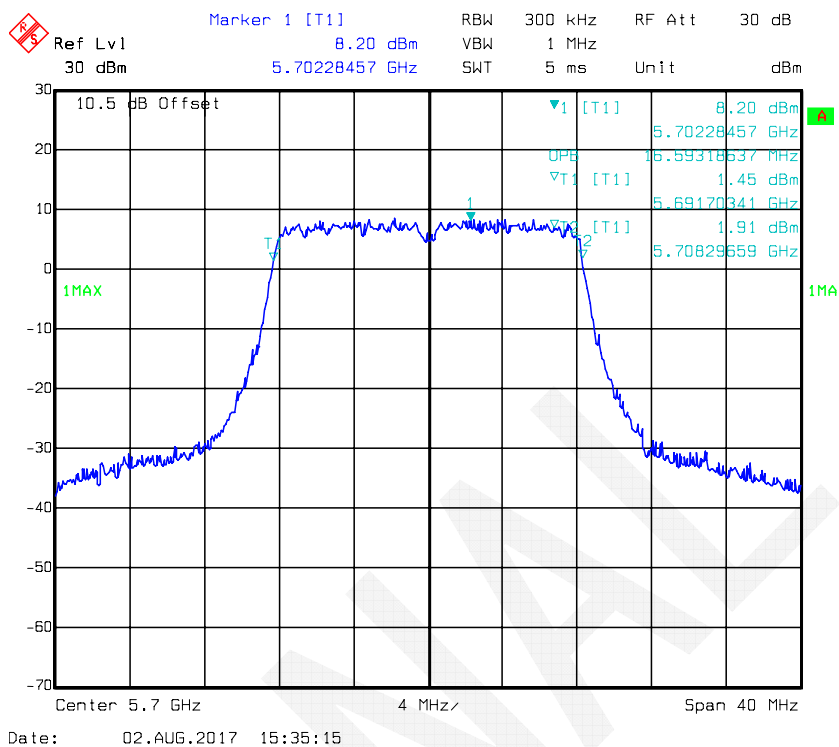
Date: 02.AUG.2017 15:34:02

802.11a mode, 99% Occupied Bandwidth -5600 MHz, Antenna 1

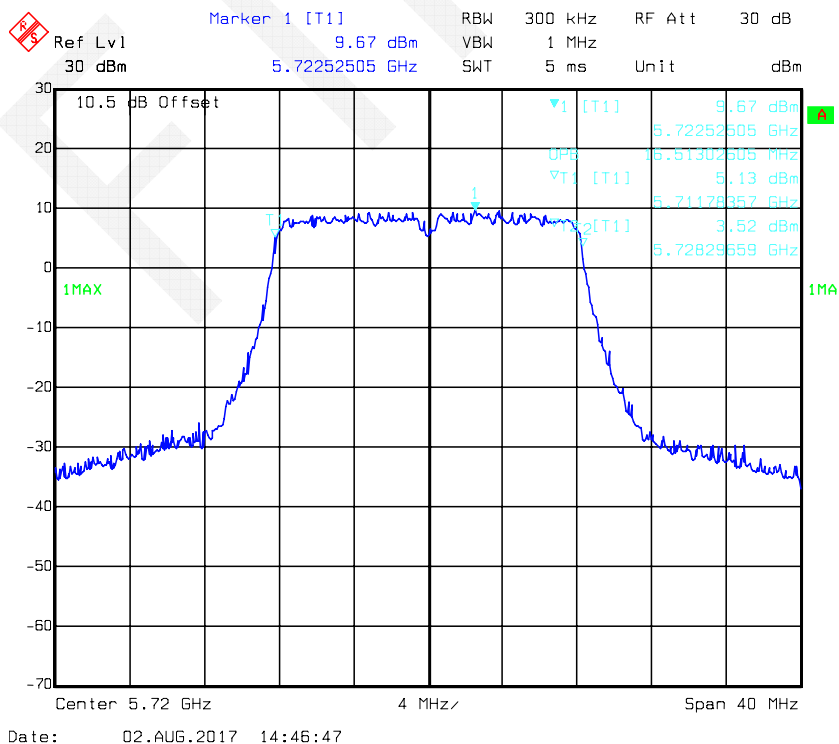


Date: 02.AUG.2017 17:27:00

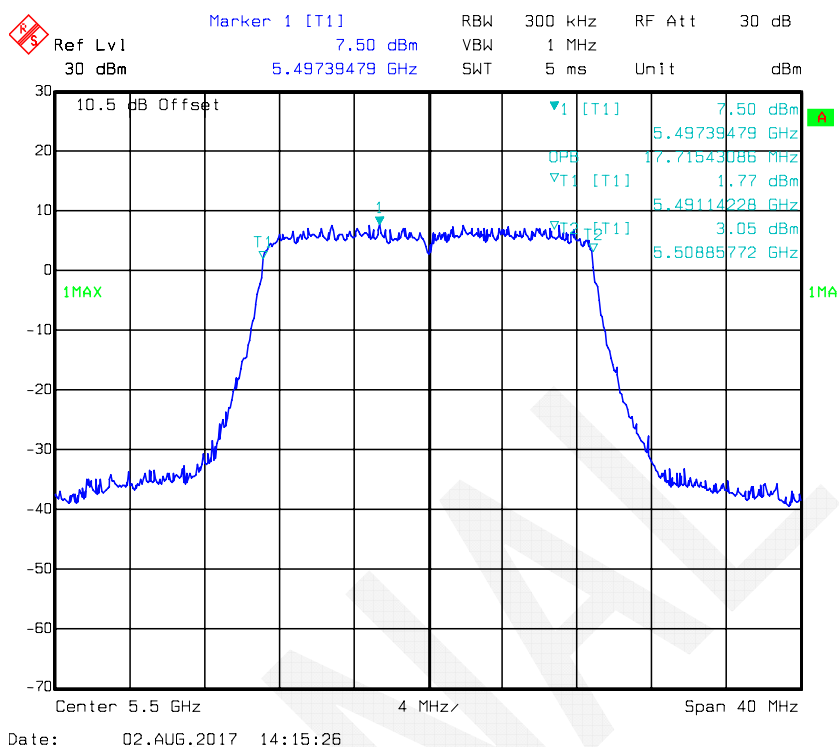
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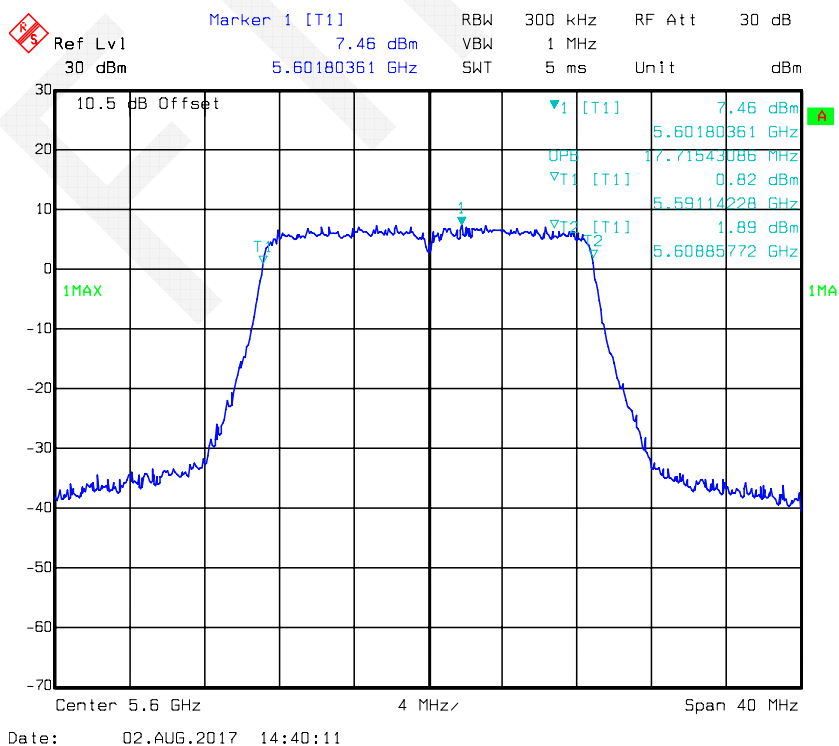
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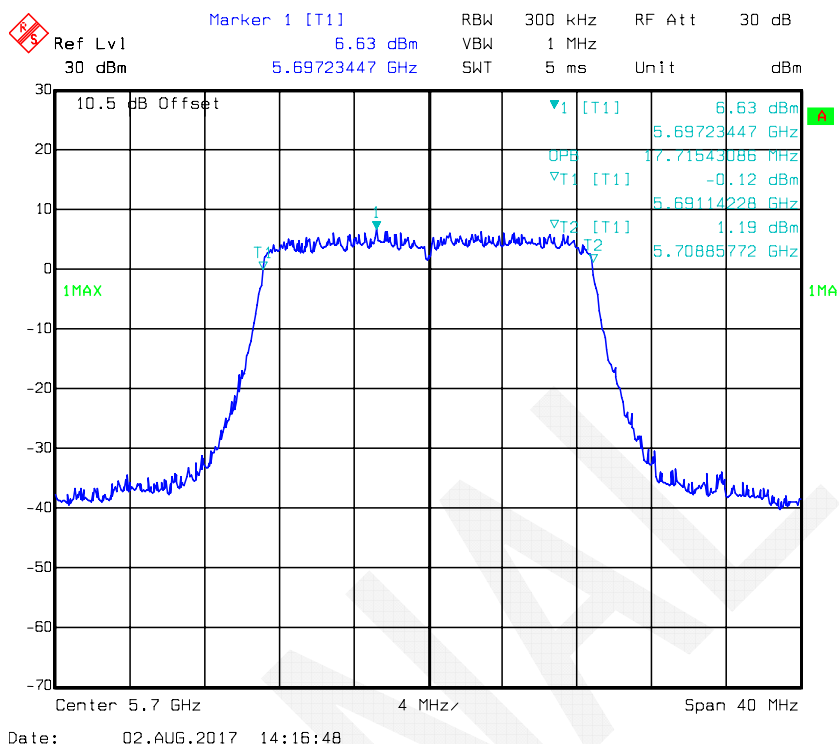
802.11n-HT20 mode, 99% Occupied Bandwidth-5500 MHz, Antenna 0



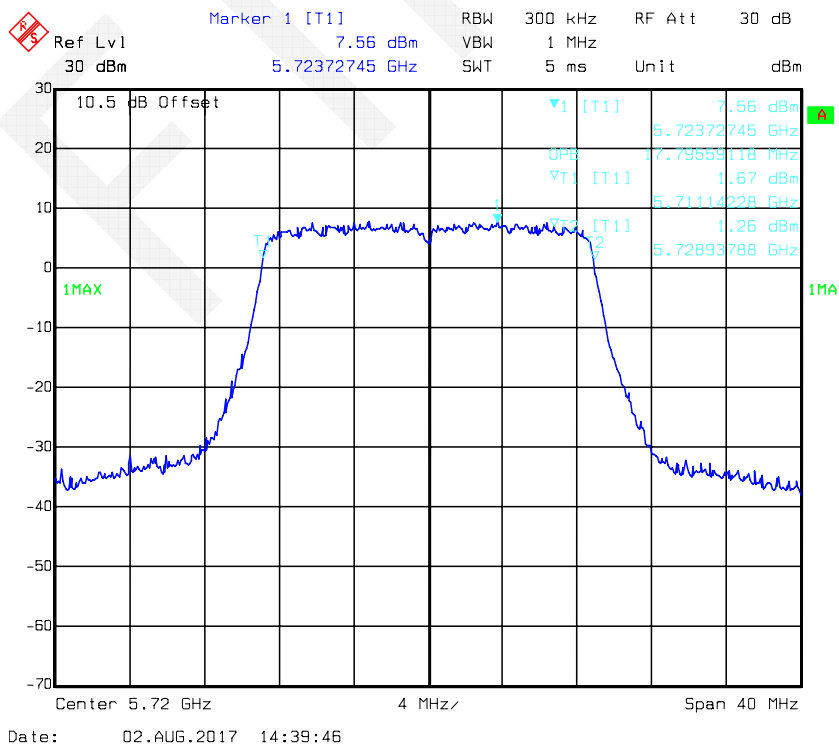
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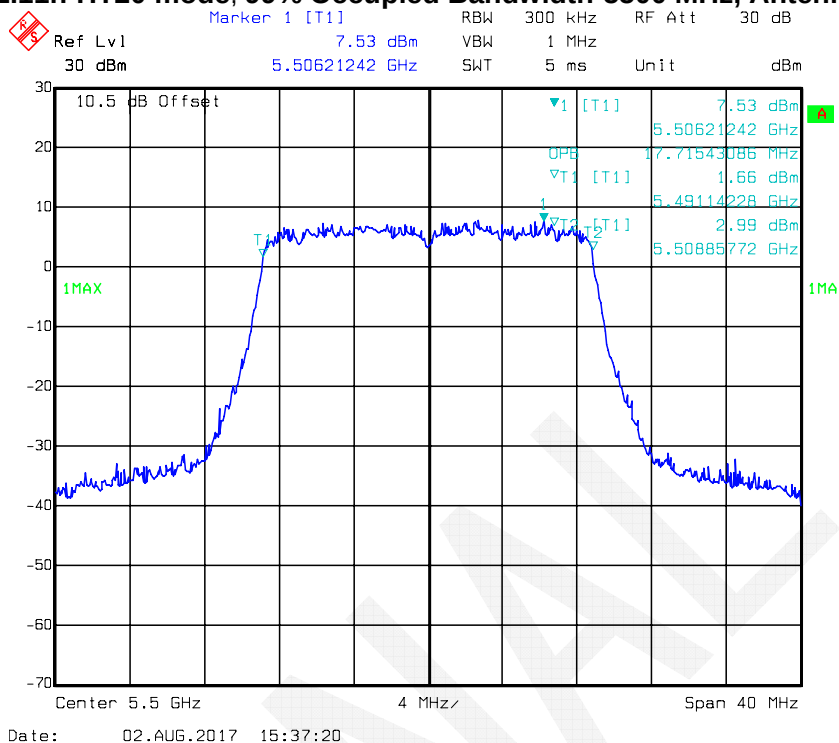
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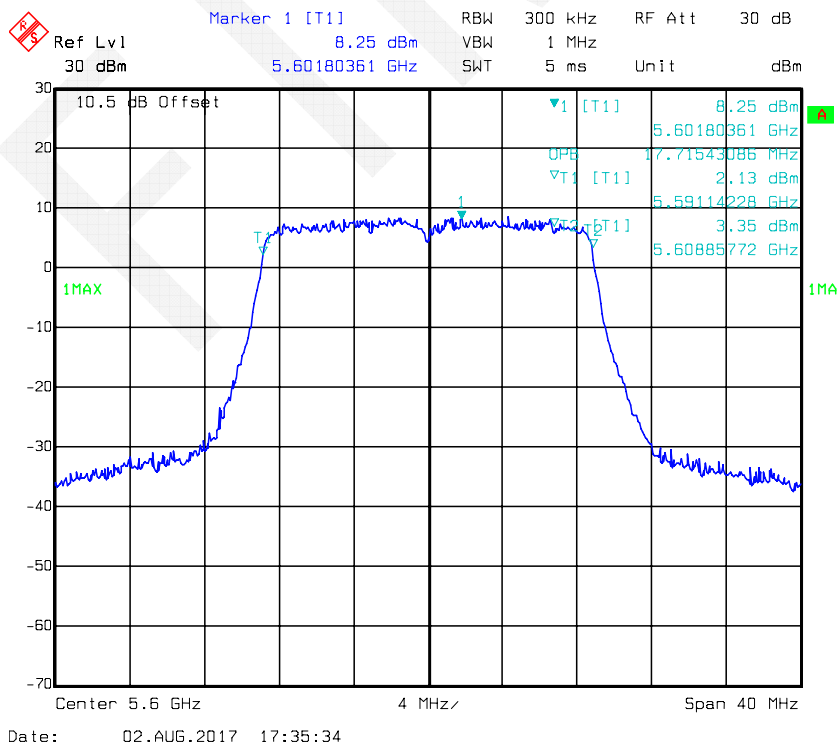
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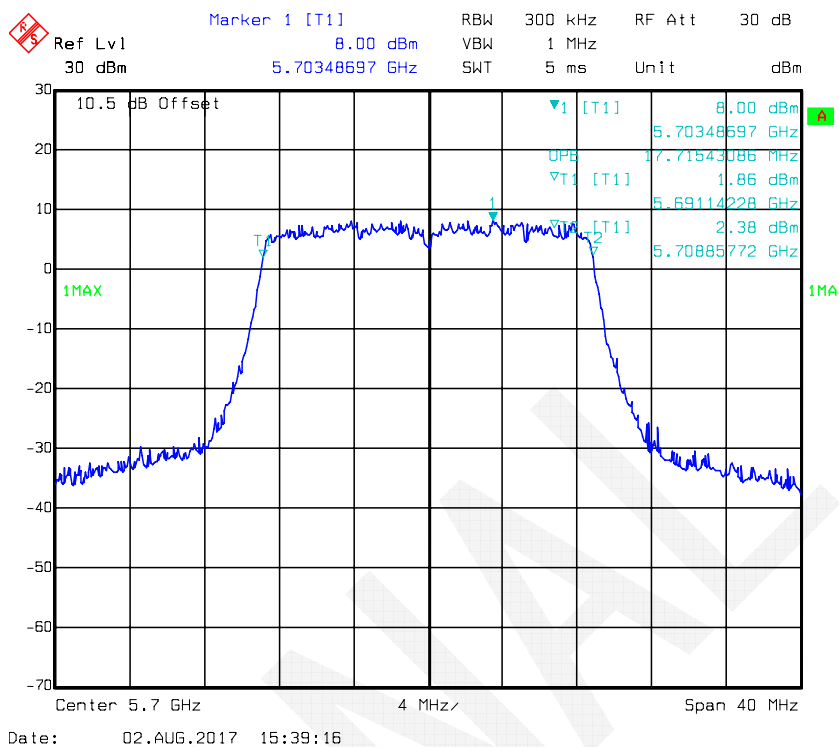
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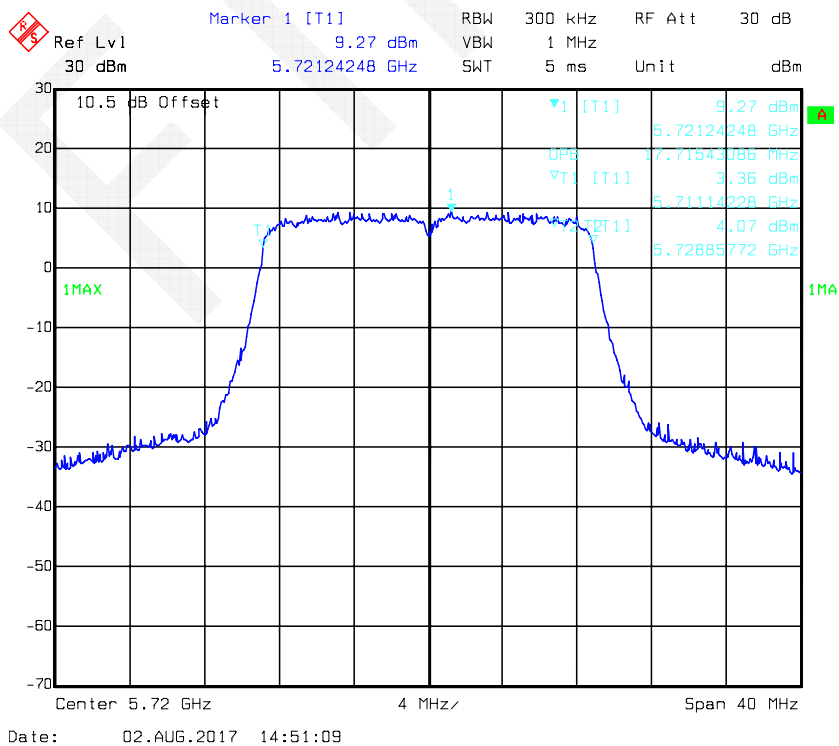
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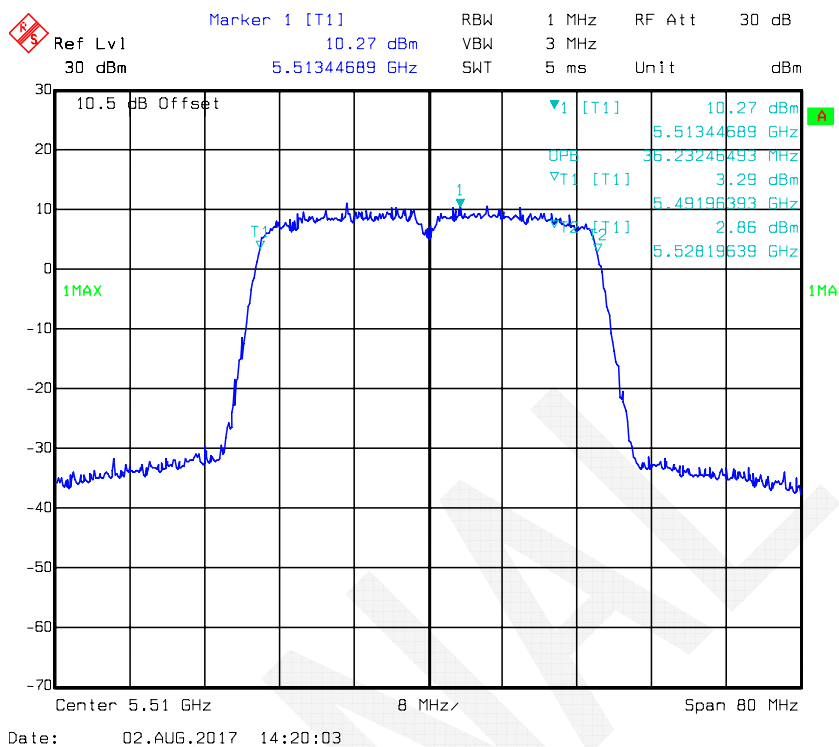
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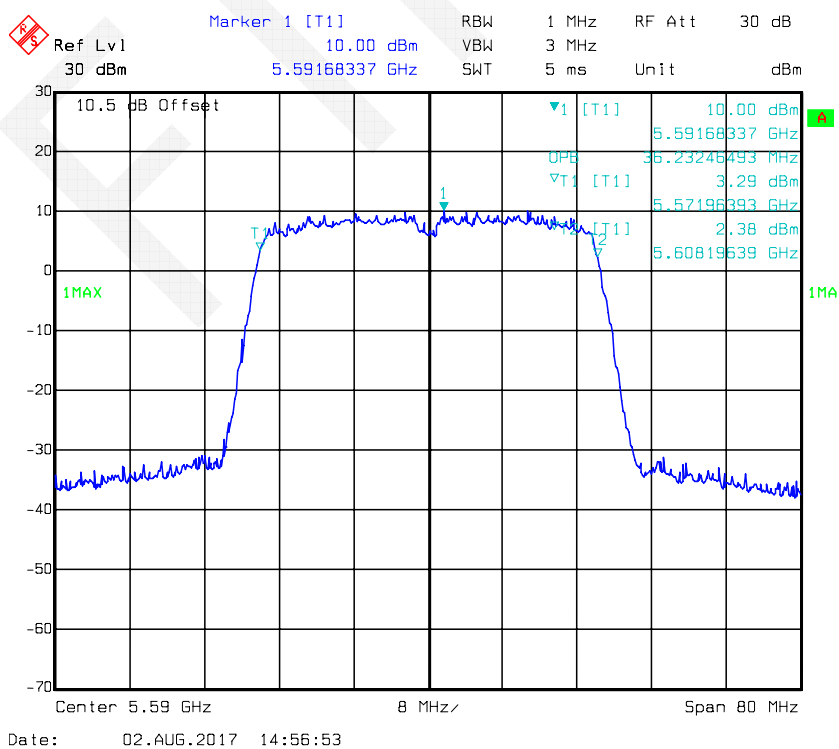
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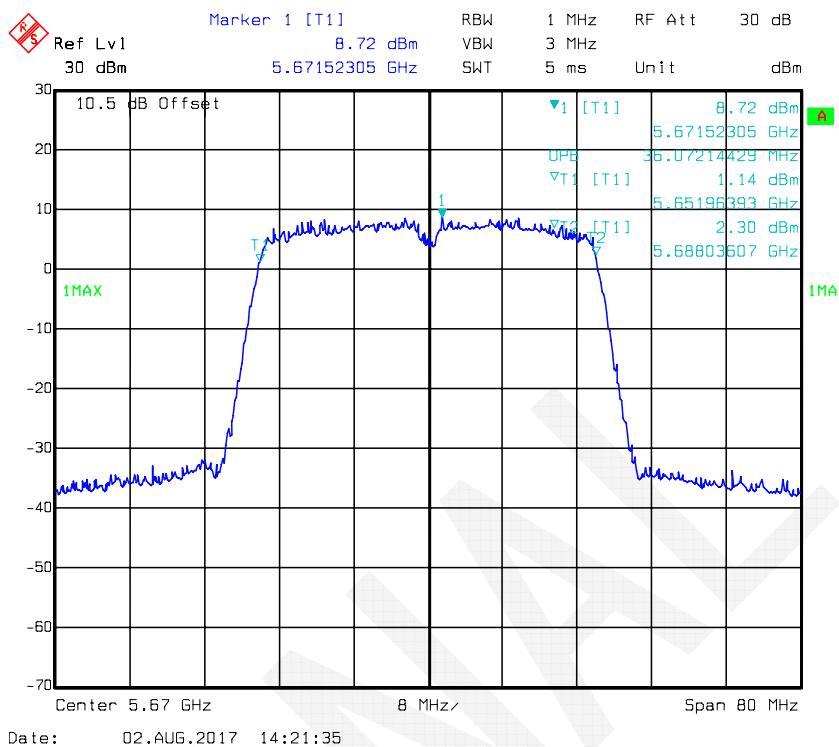
802.11n-HT40 mode, 99% Occupied Bandwidth-5510 MHz, Antenna 0



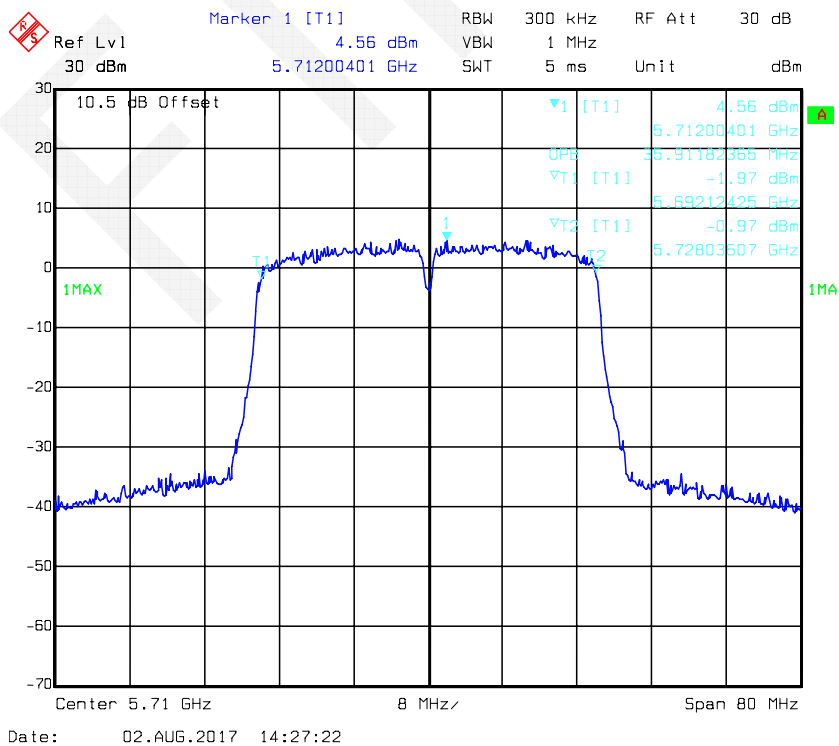
802.11n-HT40 mode, 99% Occupied Bandwidth-5590 MHz, Antenna 0



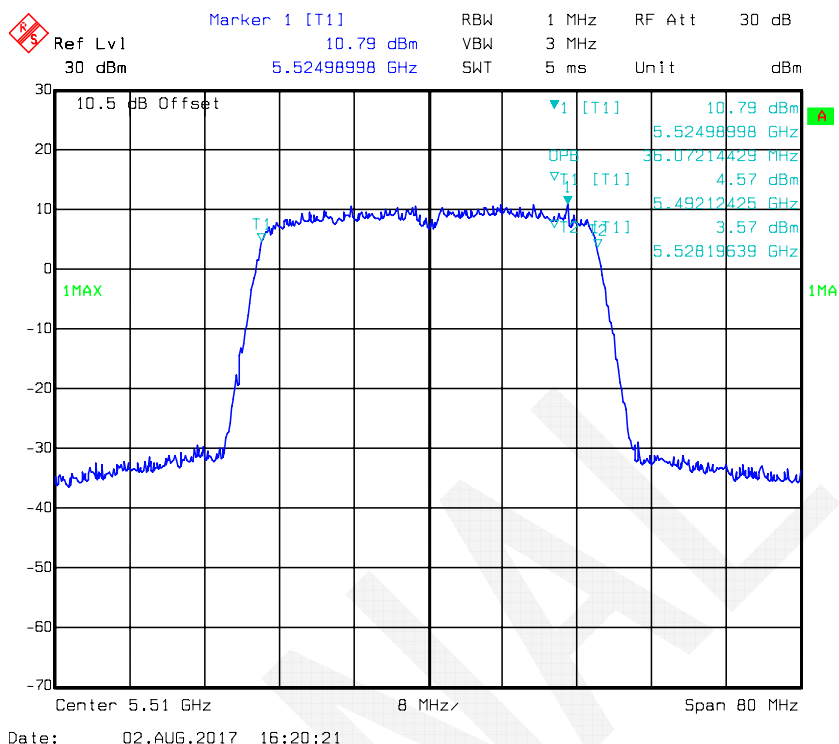
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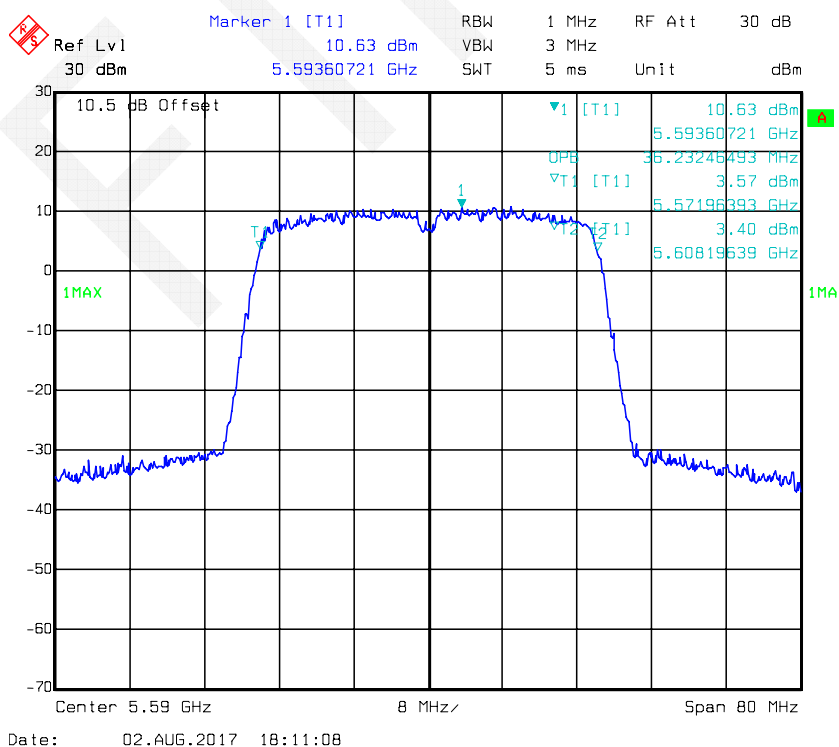
802.11n-HT40 mode, 99% Occupied Bandwidth-5710 MHz, Antenna 1



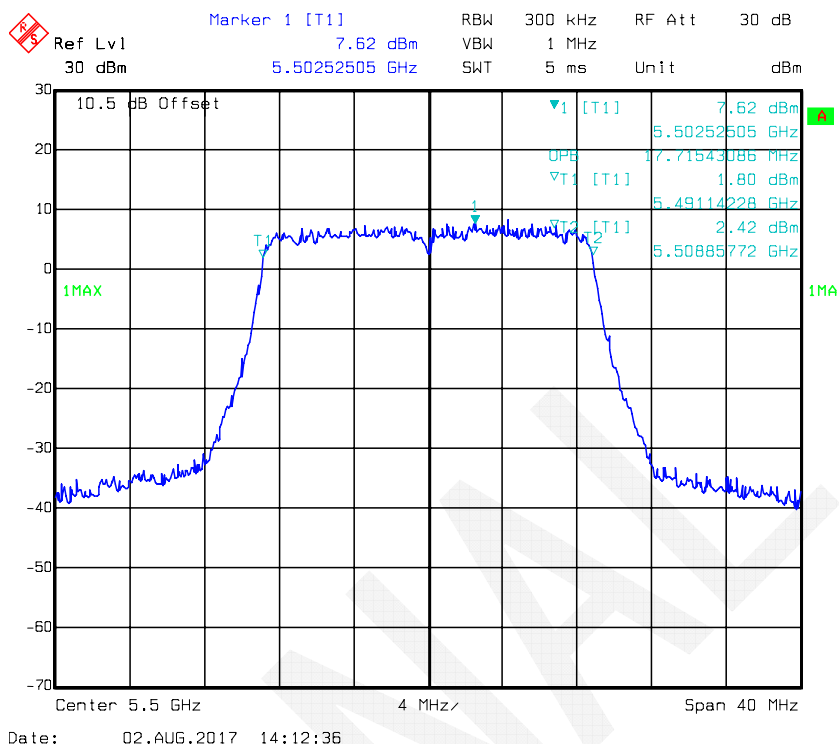
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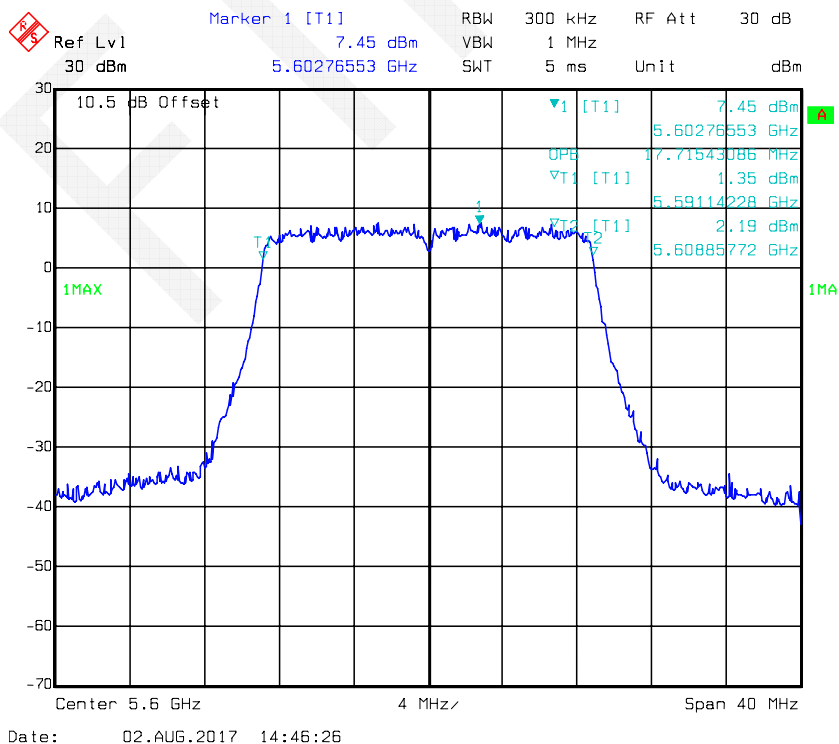
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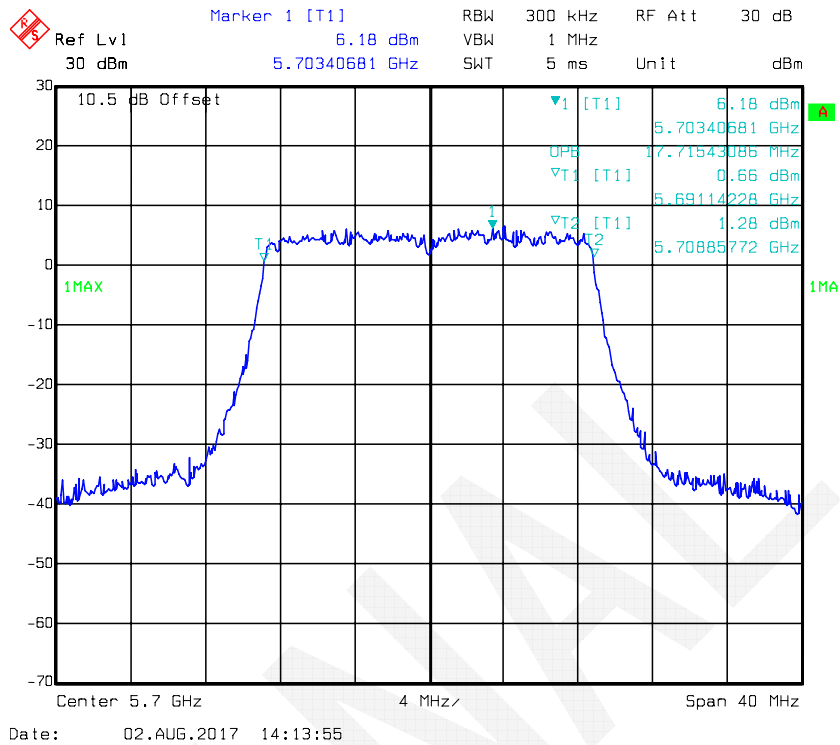
802.11ac20 mode, 99% Occupied Bandwidth-5500 MHz, Antenna 0



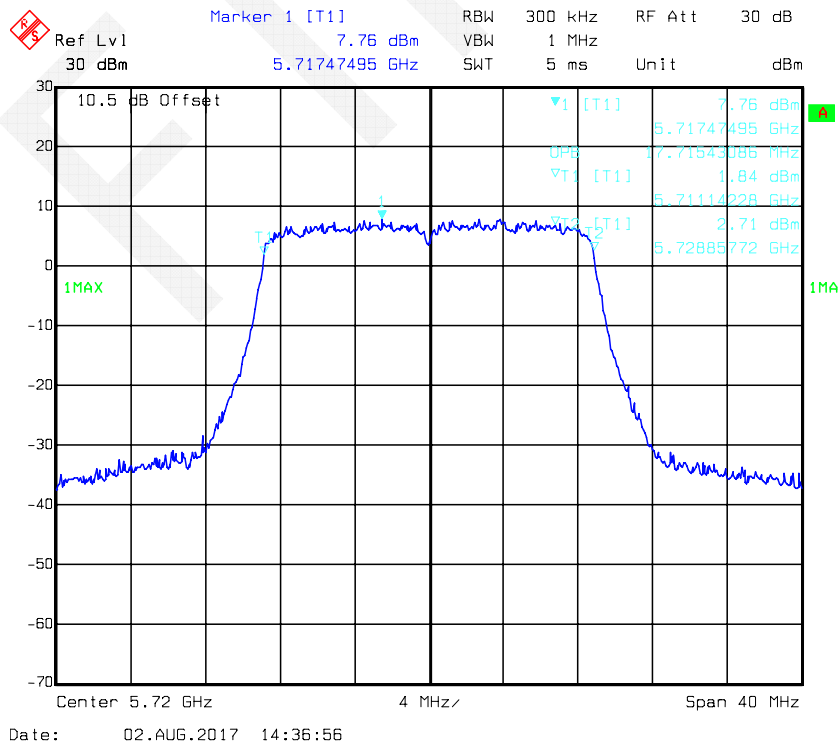
802.11ac20 mode, 99% Occupied Bandwidth-5600 MHz, Antenna 0



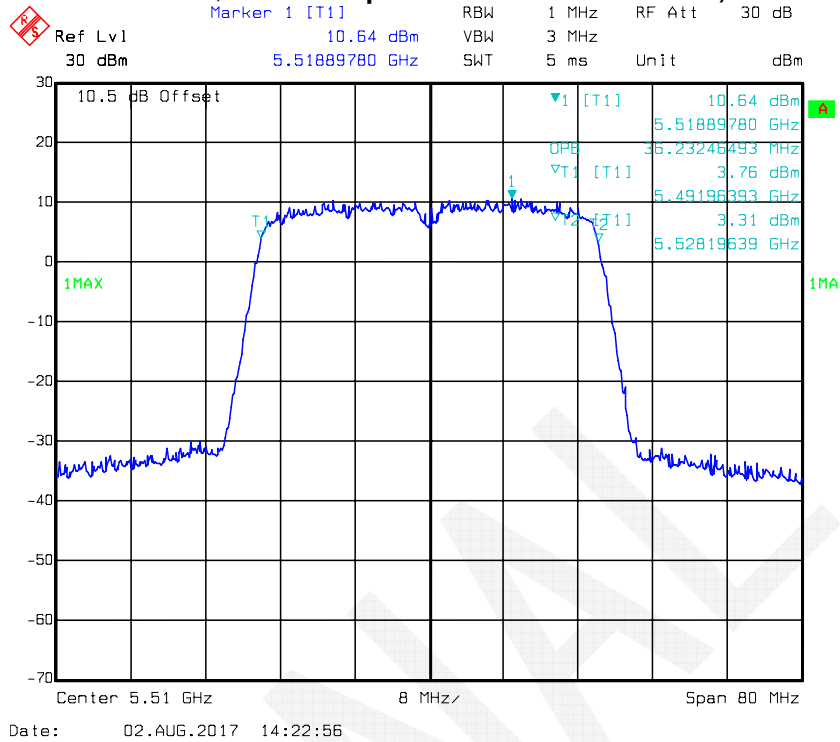
802.11ac20 mode, 99% Occupied Bandwidth-5700 MHz, Antenna 0



802.11ac20 mode, 99% Occupied Bandwidth-5720 MHz, Antenna 0



802.11ac40 mode, 99% Occupied Bandwidth-5510 MHz, Antenna 0



802.11ac40 mode, 99% Occupied Bandwidth-5590 MHz, Antenna 0

