

TEST REPORT

Applicant Name : Shenzhen Huion Trend Technology Co., Ltd.
Address : Huion Science and Technology Park, Keji 1st Road, Bao'an District, Shenzhen China
Report Number : RA230103-00156E-RF-00D
FCC ID: 2A8IG-D227

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type: Creative Pen Computer
Model No.: KS2401
Multiple Model(s) No.: KS2201,KT2201,KS2402,KS2701
Trade Mark:



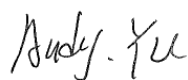
Date Received: 2023/01/03
Report Date: 2023/04/12

Test Result:	Pass*
--------------	-------

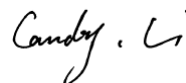
* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:



Andy Yu
EMC Engineer



Candy Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk "★". Customer model name, addresses, names, trademarks etc. are not considered data.

This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Shenzhen Accurate Technology Co., Ltd.

1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China
Tel: +86 755-26503290 Fax: +86-755-26503290 Web: www.atc-lab.com

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY	4
GENERAL INFORMATION.....	5
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
OBJECTIVE	5
TEST METHODOLOGY	5
MEASUREMENT UNCERTAINTY	6
TEST FACILITY	6
SYSTEM TEST CONFIGURATION	7
DESCRIPTION OF TEST CONFIGURATION	7
EUT EXERCISE SOFTWARE	8
DUTY CYCLE	10
SUPPORT EQUIPMENT LIST AND DETAILS	16
EXTERNAL I/O CABLE.....	16
SUMMARY OF TEST RESULTS	18
TEST EQUIPMENT LIST	19
FCC §2.1091- RF EXPOSURE.....	21
APPLICABLE STANDARD	21
RESULT	22
FCC §15.203 – ANTENNA REQUIREMENT	23
APPLICABLE STANDARD	23
ANTENNA CONNECTOR CONSTRUCTION	23
FCC §15.407 (B) (6) §15.207 (A) – CONDUCTED EMISSIONS	24
APPLICABLE STANDARD	24
EUT SETUP	24
EMI TEST RECEIVER SETUP.....	24
TEST PROCEDURE	24
CORRECTED FACTOR & MARGIN CALCULATION	25
TEST DATA	25
§15.205 & §15.209 & §15.407(B)– UNDESIRABLE EMISSION	28
APPLICABLE STANDARD	28
EUT SETUP	28
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	29
TEST PROCEDURE	29
FACTOR & MARGIN CALCULATION	30
TEST DATA	30
FCC §15.407(A),(E) – 26 DB & 6DB EMISSION BANDWIDTH.....	71
APPLICABLE STANDARD	71
TEST PROCEDURE	71
TEST DATA	72
FCC §15.407(A) – CONDUCTED TRANSMITTER OUTPUT POWER.....	163
APPLICABLE STANDARD	163
TEST PROCEDURE	163
TEST DATA	164

FCC §15.407(A) - POWER SPECTRAL DENSITY180
TEST PROCEDURE180
TEST DATA181

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	RA230103-00156E-RF-00D	Original Report	2023-04-12

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Creative Pen Computer
Tested Model	KS2401
Multiple Models	KS2201,KT2201,KS2402,KS2701 (model difference see product declaration letter of similarity)
Frequency Range	5G Wi-Fi: 5150~5250MHz ; 5250-5350MHz ; 5470-5725MHz ; 5725~5850 MHz
Mode	802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80
Maximum Conducted Average Output Power	5150-5250MHz: 15.22dBm 5250-5350MHz: 16.94dBm 5470-5725MHz: 16.08dBm 5725-5850MHz: 15.40dBm
Modulation Technique	OFDM, OFDMA
Antenna Specification*	4.98dBi (It is provided by the applicant)
Voltage Range	DC 19V from adapter
Sample serial number	1X74-1 for Conducted and Radiated Emissions Test 1X79-1 for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter Information	Model: FSP270-RBAN3 Input: AC 100-240V,50/60Hz,3.5A Output: DC 19.0V,14.21A,270.0W

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

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

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		5%
RF Frequency		0.082×10^{-7}
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		1°C
Humidity		6%
Supply voltages		0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

For 5150-5250MHz Band, 7 channels are provided to testing:

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

For 802.11a, 802.11n20/ac20/ax20 mode: channel 36, 40, 48 were tested; For 802.11n40/ac40/ax40 mode: channel 38, 46 were tested. For 802.11ac80/ax80 mode, channel 42 was tested.

For 5250-5350MHz Band, 7 channels are provided to testing:

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

For 802.11a, 802.11n20/ac20/ax20 mode: channel 52, 56, 64 were tested; For 802.11n40/ac40/ax40 mode: channel 54, 62 were tested. For 802.11ac80/ax80 mode, channel 58 was tested.

For 5470-5725MHz Band, 18 channels are provided to testing:

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

For 802.11a, 802.11n20/ac20/ax20 mode: channel 100, 116, 140 were tested;

For 802.11n40/ac40/ax40 mode: channel 102, 110, 134 were tested.

For 802.11ac80/ax80 mode, channel 106, 122 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

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, 802.11n20/ac20/ax20 mode: channel 149, 157, 165 were tested; For 802.11n40/ac40/ax40 mode: channel 151, 159 were tested. For 802.11ac80/ax80 mode, channel 155 was tested.

EUT Exercise Software

“QA_Tool*” exercise software was used. The software and power level was provided by the applicant.

The worst case was performed under:

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5150 – 5250MHz	802.11a	6 Mbps	NA	NA	13	13	13
	802.11n20	MCS0	NA	NA	13	13	13
	802.11n40	MCS0	NA	NA	13	13	13
	802.11ac20	MCS0	NA	NA	13	13	13
	802.11ac40	MCS0	NA	NA	13	13	13
	802.11ac80	MCS0	NA	NA	13	13	13
	11AX20	MCS0	26Tone	RU0	1.5	1.5	1.5
			52Tone	RU37	4.5	4.5	4.5
			106Tone	RU53	7.5	7.5	7.5
			242Tone	RU61	13	13	13
	11AX40	MCS0	26Tone	RU0	-1.5	-1.5	-1.5
			52Tone	RU37	1.5	1.5	1.5
			106Tone	RU53	4.5	4.5	4.5
			242Tone	RU61	7.5	7.5	7.5
			484Tone	RU65	13	13	13
	11AX80	MCS0	26Tone	RU0	-5	-5	-5
			52Tone	RU37	-2	-2	-2
			106Tone	RU53	-1	-1	-1
			242Tone	RU61	2	2	2
			484Tone	RU65	5	5	5
			996Tone	RU67	13	13	13

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5250 – 5350MHz	802.11a	6 Mbps	NA	NA	13	13	13
	802.11n20	MCS0	NA	NA	13	13	13
	802.11n40	MCS0	NA	NA	13	/	13
	802.11ac20	MCS0	NA	NA	13	13	13
	802.11ac40	MCS0	NA	NA	13	/	13
	802.11ac80	MCS0	NA	NA	/	13	/
	11AX20	MCS0	26Tone	RU0	1.5	1.5	1.5
			52Tone	RU37	4.5	4.5	4.5
			106Tone	RU53	7.5	7.5	7.5
			242Tone	RU61	13	13	13
	11AX40	MCS0	26Tone	RU0	-1.5	/	-1.5
			52Tone	RU37	1.5	/	1.5
			106Tone	RU53	4.5	/	4.5
			242Tone	RU61	7.5	/	7.5
			484Tone	RU65	13	/	13
	11AX80	MCS0	26Tone	RU0	/	-5	/
			52Tone	RU37	/	-2	/
			106Tone	RU53	/	-1	/
			242Tone	RU61	/	2	/
			484Tone	RU65	/	5	/
			996Tone	RU67	/	13	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5470-5725MHz	802.11a	6 Mbps	NA	NA	13	13	13
	802.11n20	MCS0	NA	NA	13	13	13
	802.11n40	MCS0	NA	NA	13	13	13
	802.11ac20	MCS0	NA	NA	13	13	13
	802.11ac40	MCS0	NA	NA	13	13	13
	802.11ac80	MCS0	NA	NA	14		14
	11AX20	MCS0	26Tone	RU0	1.5	1.5	1.5
			52Tone	RU37	4.5	4.5	4.5
			106Tone	RU53	7.5	7.5	7.5
			242Tone	RU61	13	13	13
	11AX40	MCS0	26Tone	RU0	-1.5	-1.5	-1.5
			52Tone	RU37	1.5	1.5	1.5
			106Tone	RU53	4.5	4.5	4.5
			242Tone	RU61	7.5	7.5	7.5
			484Tone	RU65	13	13	13
	11AX80	MCS0	26Tone	RU0	-5		-5
			52Tone	RU37	-2		-2
			106Tone	RU53	-1		-1
			242Tone	RU61	2		2
			484Tone	RU65	5		5
			996Tone	RU67	14		14

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level		
					Low Channel	Middle Channel	High Channel
5725-5850MHz	802.11a	6 Mbps	NA	NA	13	13	13
	802.11n20	MCS0	NA	NA	13	13	13
	802.11n40	MCS0	NA	NA	13	13	13
	802.11ac20	MCS0	NA	NA	13	13	13
	802.11ac40	MCS0	NA	NA	13	/	13
	802.11ac80	MCS0	NA	NA	/	13	/
	11AX20	MCS0	26Tone	RU0	1.5	1.5	1.5
			52Tone	RU37	4.5	4.5	4.5
			106Tone	RU53	7.5	7.5	7.5
			242Tone	RU61	1.5	13	13
	11AX40	MCS0	26Tone	RU0	-1.5	/	-1.5
			52Tone	RU37	1.5	/	1.5
			106Tone	RU53	4.5	/	4.5
			242Tone	RU61	7.5	/	7.5
			484Tone	RU65	13	/	13
	11AX80	MCS0	26Tone	RU0	/	-5	/
			52Tone	RU37	/	-2	/
			106Tone	RU53	/	-1	/
			242Tone	RU61	/	2	/
			484Tone	RU65	/	5	/
			996Tone	RU67	/	13	/

For Wi-Fi mode, EUT have two antennas, for 802.11 a mode only support SISO transmitting, for 802.11n/ac/ax mode support SISO/MIMO transmitting, and for MIMO mode, the device employ CDD. According pre-scan, the worst case MIMO mode was selected to test and record in report.

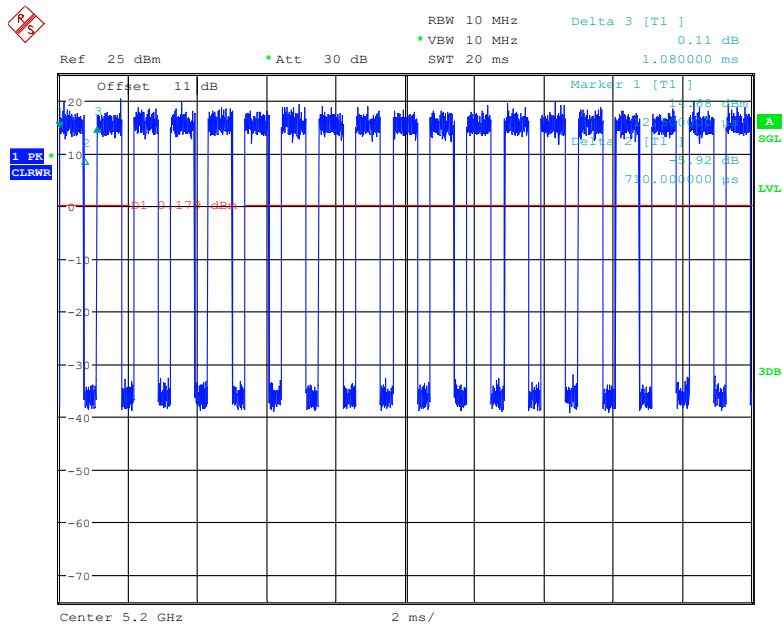
The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power, peak power and PSD across all data rates, bandwidths and modulations.

All the antenna ports have the same power level.

Duty cycle

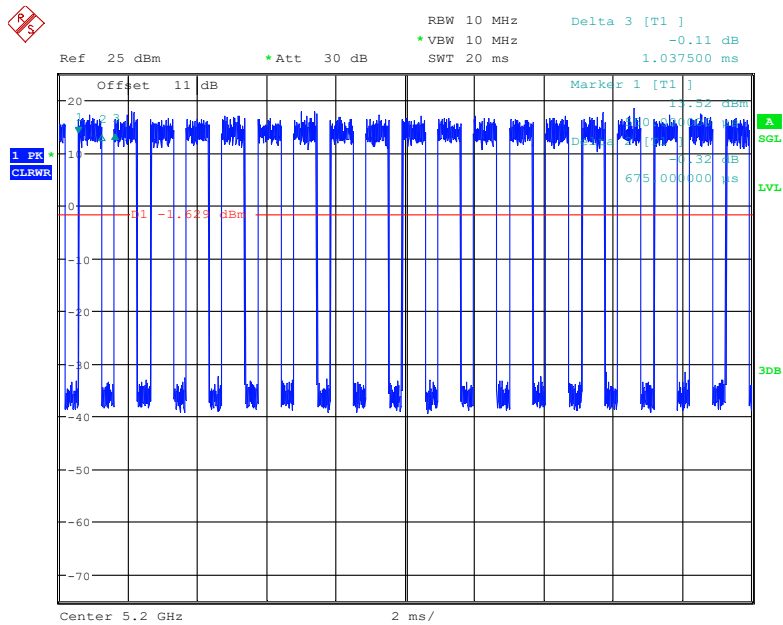
Mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/T minimum VBW setting(kHz)
802.11a	0.710	1.080	65.74	1.82	1.41
802.11n20	0.675	1.038	65.03	1.87	1.48
802.11n40	0.198	0.550	36.00	4.44	5.05
802.11ac20	0.368	0.738	49.86	3.02	2.72
802.11ac40	0.128	0.490	26.12	5.83	7.81
802.11ac80	0.083	0.463	17.93	7.46	12.05
802.11ax20	0.203	0.555	36.58	4.37	4.93
802.11ax40	0.198	0.578	34.26	4.65	5.05
802.11ax80	0.195	0.583	33.45	4.76	5.13

802.11a mode



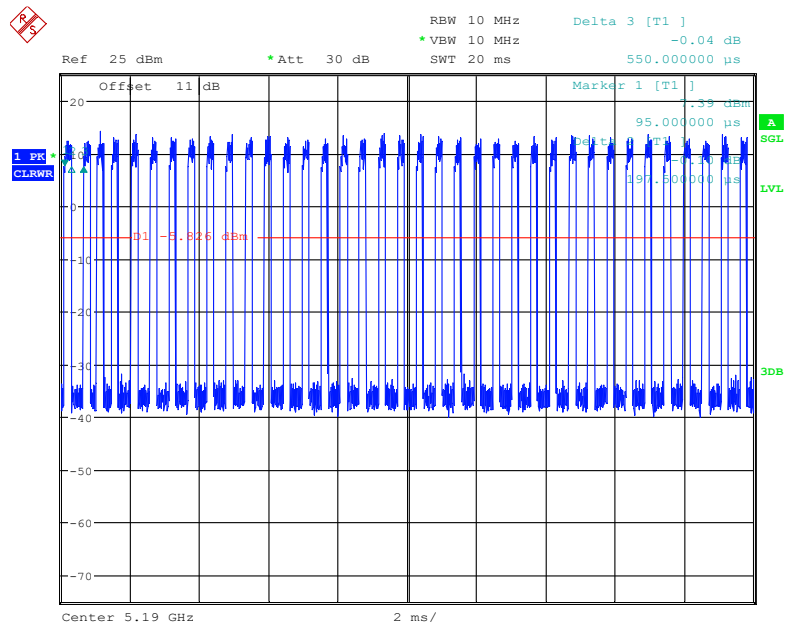
Date: 3.MAR.2023 19:56:01

802.11n20 mode



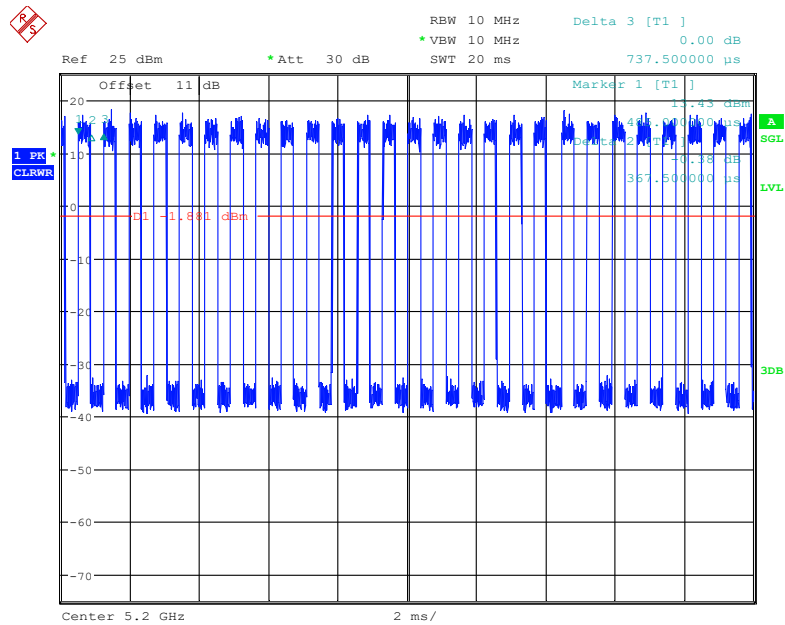
Date: 3.MAR.2023 20:32:57

802.11n40 mode



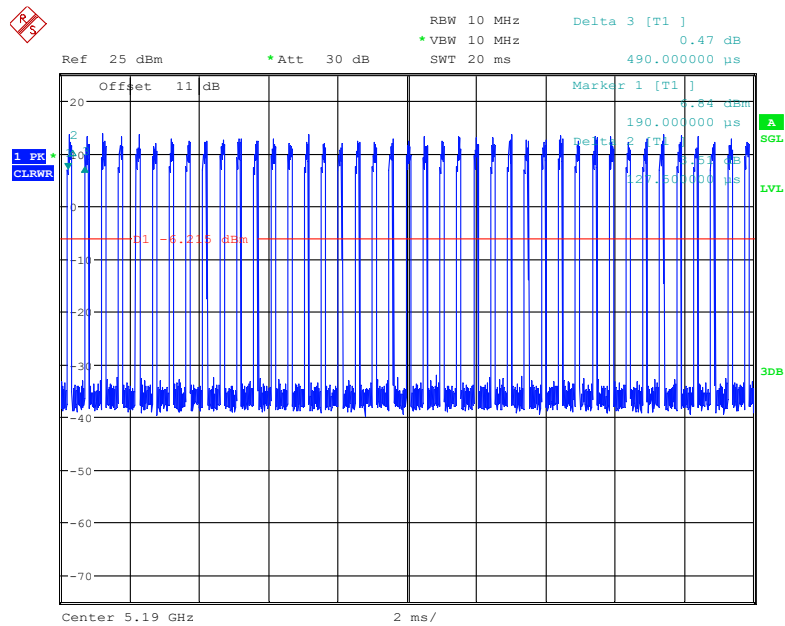
Date: 3.MAR.2023 20:59:13

802.11ac20 Mode



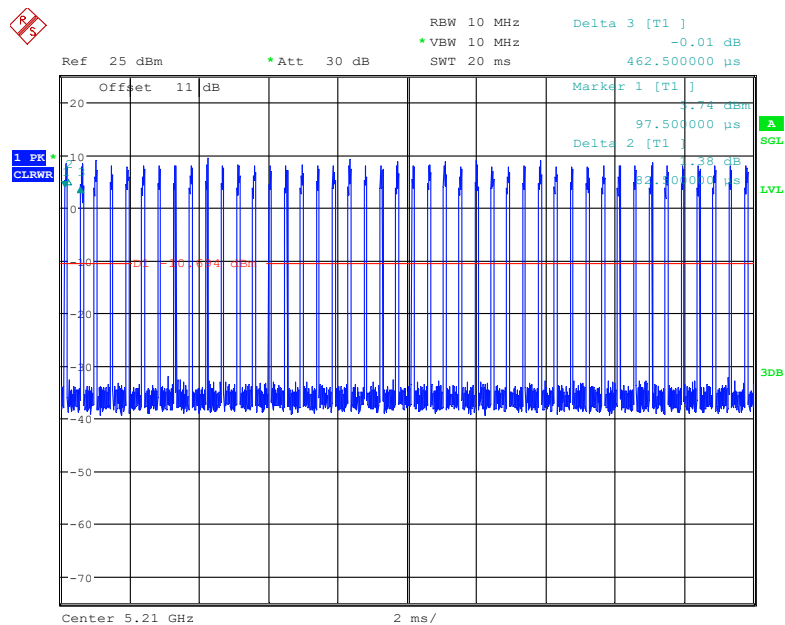
Date: 3.MAR.2023 20:21:43

802.11ac40 Mode



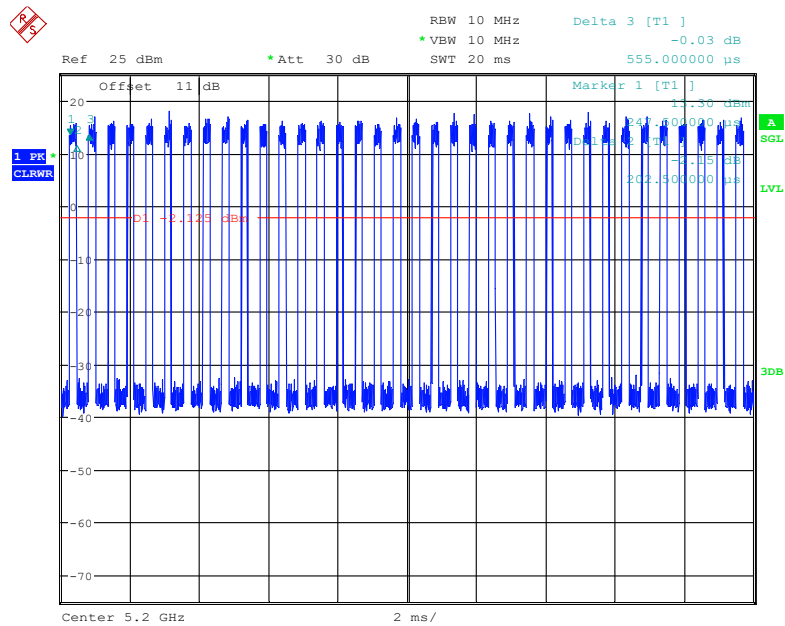
Date: 3.MAR.2023 20:54:03

802.11ac80 Mode



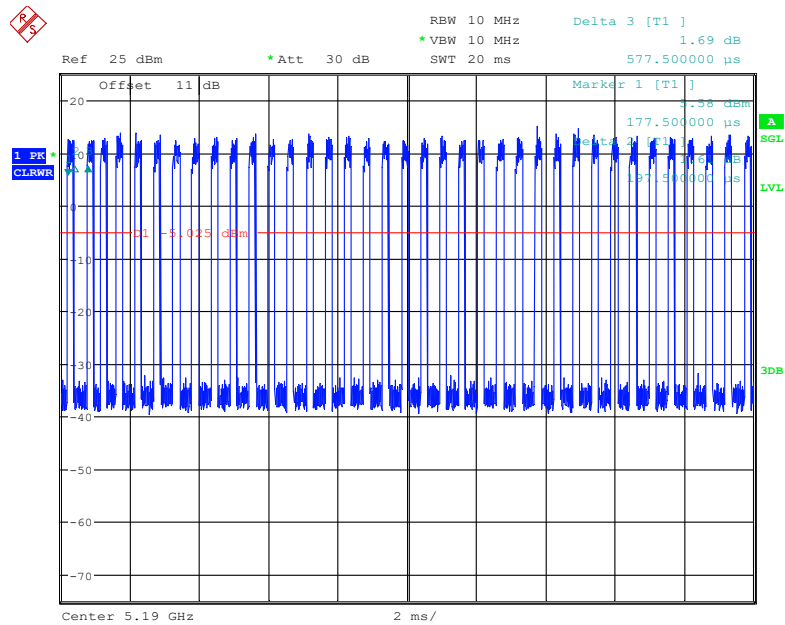
Date: 3.MAR.2023 21:12:14

802.11ax20 Mode



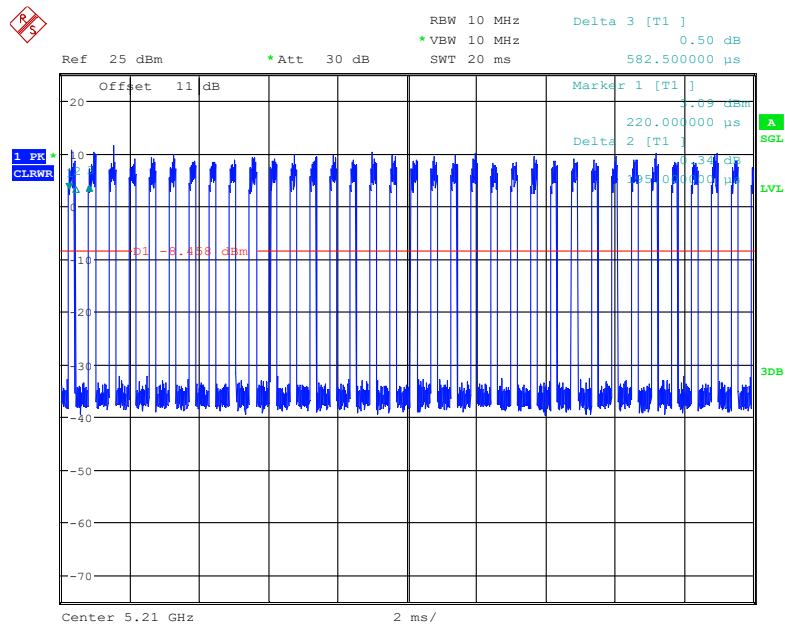
Date: 3.MAR.2023 20:44:58

802.11ax 40 Mode



Date: 3.MAR.2023 21:04:47

802.11ax80 Mode



Date: 3.MAR.2023 21:15:07

Support Equipment List and Details

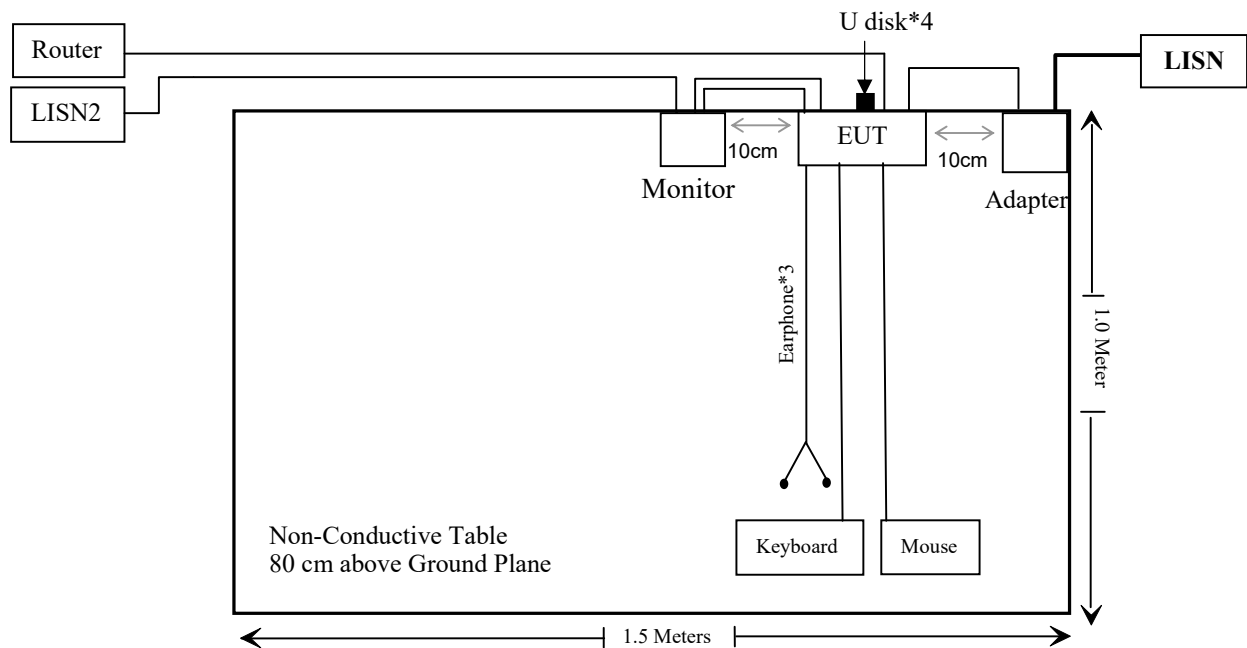
Manufacturer	Description	Model	Serial Number
Teda	Router	WS5100	A4933FEF1D01
Unknown	Earphone*3	Unknown	Unknown
Unknown	U disk *4	Unknown	Unknown
DELL	Monitor	RVE A00	506250042400R
DELL	Keyboard	Unknown	Unknown
DELL	Mouse	Unknown	Unknown

External I/O Cable

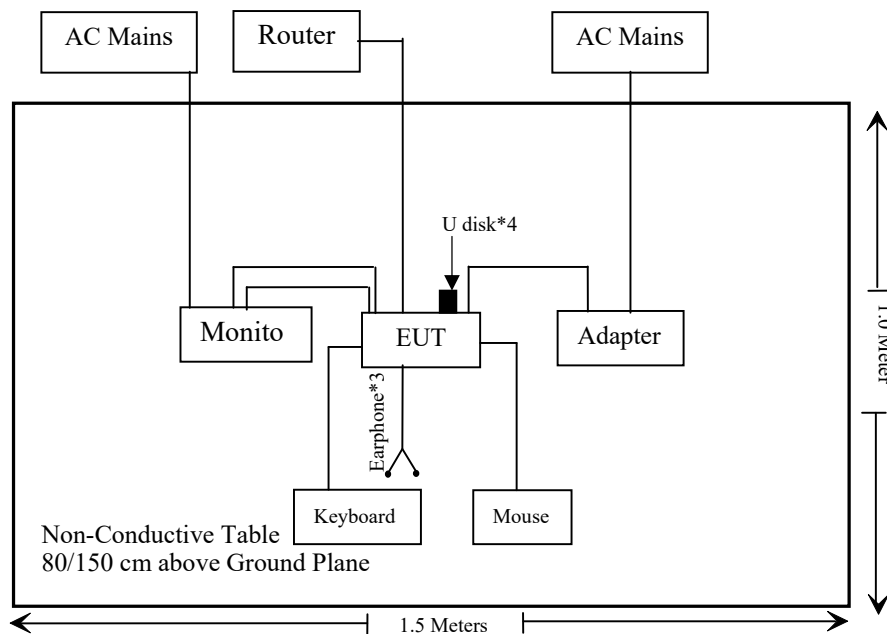
Cable Description	Length (m)	From/Port	To
Un-shielded detachable RJ45 cable	8.0	EUT	Router
Unshielded Detachable DC cable	1.5	Adapter	EUT
Shielded detachable HDMI cable	2.0	EUT	Monitor
Shielded detachable DVI cable	2.0	EUT	Monitor
Unshielded Detachable AC cable	1.0	Adapter	AC Mains/ LISN
Unshielded Detachable USB cable	1.2	EUT	Keyboard
Unshielded Detachable USB cable	1.2	EUT	Mouse
Unshielded Detachable AC cable	1.5	Monitor	LISN2

Block Diagram of Test Setup

For conducted emission



For Radiation emission



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§2.1091	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Not Applicable
§15.407 (h)	Dynamic Frequency Selection (DFS)	Compliant*

Not Applicable: the EUT has no TPC function which was declared by the applicant.

Compliant*: Please refer to the report: RA230103-00156E-RF-00C

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted emission test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2022/11/25	2023/11/24
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2022/11/25	2023/11/24
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2022/12/07	2023/12/06
Unknown	RF Coaxial Cable	No.17	N0350	2022/11/25	2023/11/24
Conducted Emission Test Software: e3 19821b (V9)					
Radiated emission test					
Rohde& Schwarz	Test Receiver	ESR	102725	2022/11/25	2023/11/24
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
SONOMA INSTRUMENT	Amplifier	310 N	186131	2022/11/08	2023/11/07
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2022/11/08	2023/11/07
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2022/11/30	2025/11/29
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2022/12/26	2025/12/25
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.12	N040	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.13	N300	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.14	N800	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24
CD	Band Reject Filter	BRM-5.15/5.35g-45	075	2022/11/25	2023/11/24
CD	Band Reject Filter	BRM-5.725/5.875G-45	065	2022/11/25	2023/11/24

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSU26	200982	2022/07/04	2023/07/03
Agilent	USB wideband power sensor	U2021XA	MY54250003	2022/06/27	2023/06/26
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §2.1091- RF EXPOSURE

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

R is the minimum separation distance in meters

f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Result

Mode	Frequency (MHz)	Antenna Gain		Tune up conducted power		ERP		Evaluation Distance (m)	ERP Limit (W)
		(dBi)	(dBd)	(dBm)	(W)	(dBm)	(W)		
Bluetooth	2402-2480	4.88	2.73	12.0	0.016	14.73	0.030	0.2	0.768
BLE	2402-2480	4.88	2.73	10.5	0.011	13.23	0.021	0.2	0.768
Wi-Fi	2412-2462	4.88	2.73	18.0	0.063	20.73	0.118	0.2	0.768
	5180-5240	4.98	2.83	16.0	0.040	18.83	0.076	0.2	0.768
	5260-5320	4.98	2.83	17.5	0.056	20.33	0.108	0.2	0.768
	5500-5700	4.98	2.83	16.5	0.045	19.33	0.086	0.2	0.768
	5745-5825	4.98	2.83	16.0	0.040	18.83	0.076	0.2	0.768

Note:

1. The tune up conducted power and antenna gain was declared by the applicant.

2: 0dBd=2.15dBi.

3: The Bluetooth/BLE can transmit at same time with 2.4G Wi-Fi or 5G Wi-Fi

Simultaneous transmitting consideration (worst case):

The ratio= $ERP_{BT}/ERP + ERP_{Wi-Fi}/ERP = 0.030/0.768 + 0.118/0.768 = 0.193 < 1.0$, so simultaneous exposure is compliant.

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

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:

- 1) Antenna must be permanently attached to the unit.
- 2) 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.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has two internal antenna arrangement for 5G Wi-Fi which were permanently attached. Please refer to the EUT photos.

Antenna Type	Antenna Gain	Impedance	Frequency Range
PCB	4.98dBi	50 Ω	5150-5850MHz

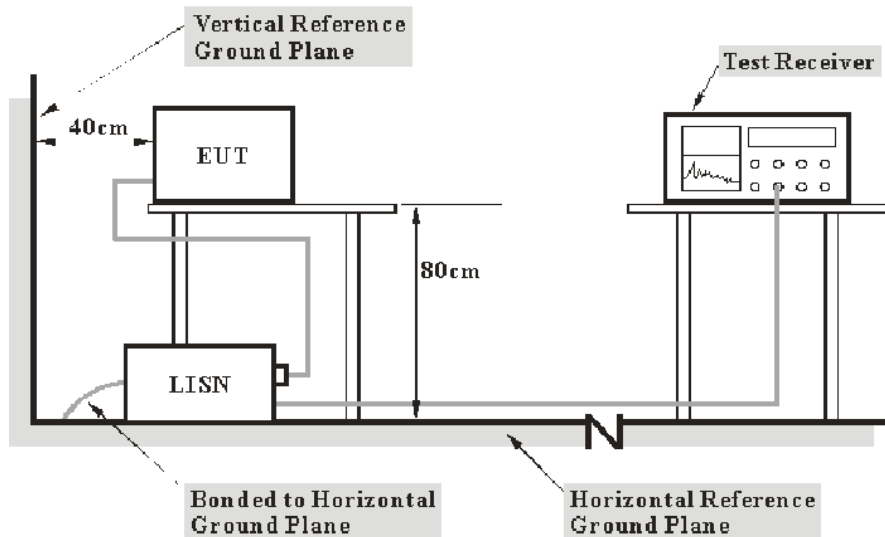
Result: Compliant.

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

Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 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.

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

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.

Corrected Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Transd Factor} = \text{LISN VDF} + \text{Cable Loss}$$

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

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

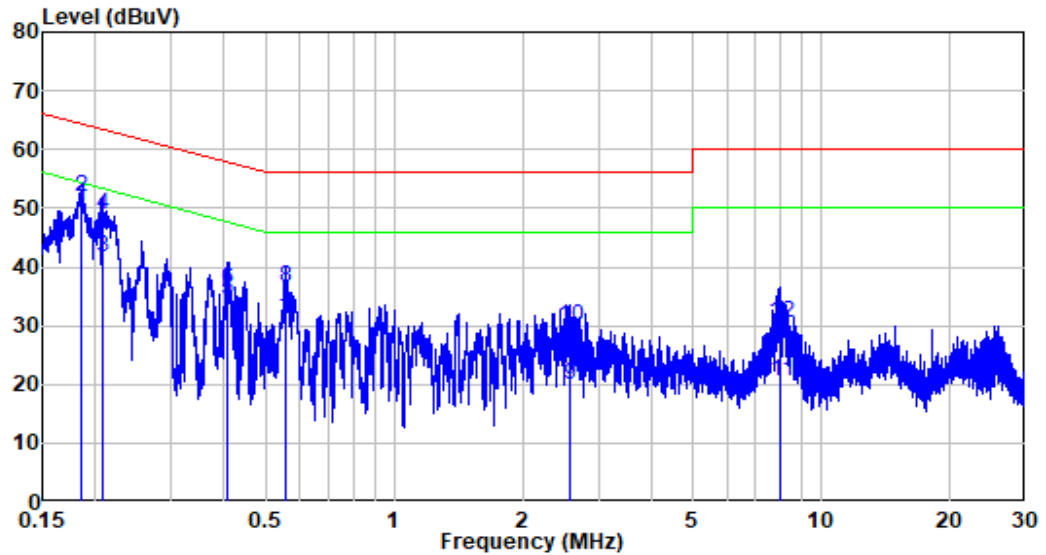
Environmental Conditions

Temperature:	23°C
Relative Humidity:	52%
ATM Pressure:	101.0 kPa

The testing was performed by Lipa on 2023-02-01.

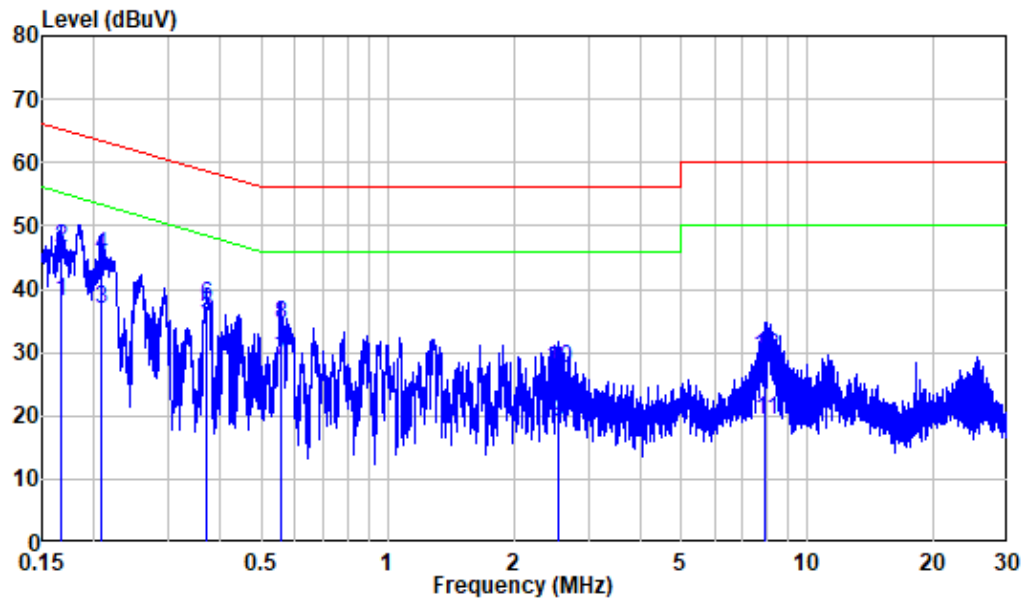
EUT operation mode: Transmitting (worst case is 802.11a, 5200MHz)

AC 120V/60 Hz, Line



Site : Shielding Room
 Condition: Line
 Job No. : RA230103-00156E-RF
 Mode : 5G Wifi
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.185	9.90	40.37	50.27	54.27	-4.00	Average
2	0.185	9.90	42.16	52.06	64.27	-12.21	QP
3	0.207	9.90	31.88	41.78	53.32	-11.54	Average
4	0.207	9.90	39.04	48.94	63.32	-14.38	QP
5	0.408	9.82	24.48	34.30	47.68	-13.38	Average
6	0.408	9.82	26.51	36.33	57.68	-21.35	QP
7	0.556	9.84	20.90	30.74	46.00	-15.26	Average
8	0.556	9.84	26.57	36.41	56.00	-19.59	QP
9	2.582	9.93	10.06	19.99	46.00	-26.01	Average
10	2.582	9.93	19.93	29.86	56.00	-26.14	QP
11	8.015	9.98	10.57	20.55	50.00	-29.45	Average
12	8.015	9.98	20.59	30.57	60.00	-29.43	QP

AC 120V/60 Hz, Neutral

Site : Shielding Room
 Condition: Neutral
 Job No. : RA230103-00156E-RF
 Mode : 5G Wifi
 Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.167	9.80	28.31	38.11	55.13	-17.02	Average
2	0.167	9.80	36.59	46.39	65.13	-18.74	QP
3	0.208	9.80	27.14	36.94	53.30	-16.36	Average
4	0.208	9.80	35.37	45.17	63.30	-18.13	QP
5	0.368	9.87	25.98	35.85	48.54	-12.69	Average
6	0.368	9.87	27.52	37.39	58.54	-21.15	QP
7	0.554	9.88	18.69	28.57	46.00	-17.43	Average
8	0.554	9.88	24.51	34.39	56.00	-21.61	QP
9	2.545	9.83	9.05	18.88	46.00	-27.12	Average
10	2.545	9.83	17.68	27.51	56.00	-28.49	QP
11	7.930	10.05	9.27	19.32	50.00	-30.68	Average
12	7.930	10.05	19.38	29.43	60.00	-30.57	QP

§15.205 & §15.209 & §15.407(B)– UNDESIRABLE EMISSION

Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

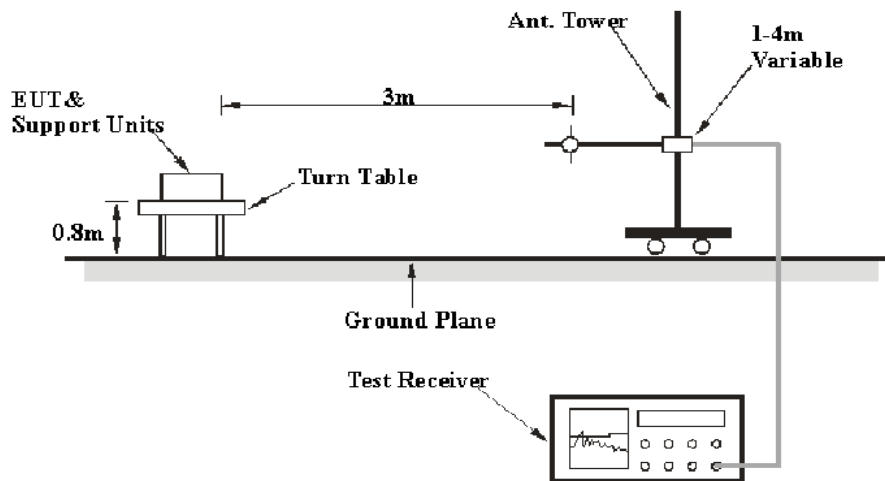
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

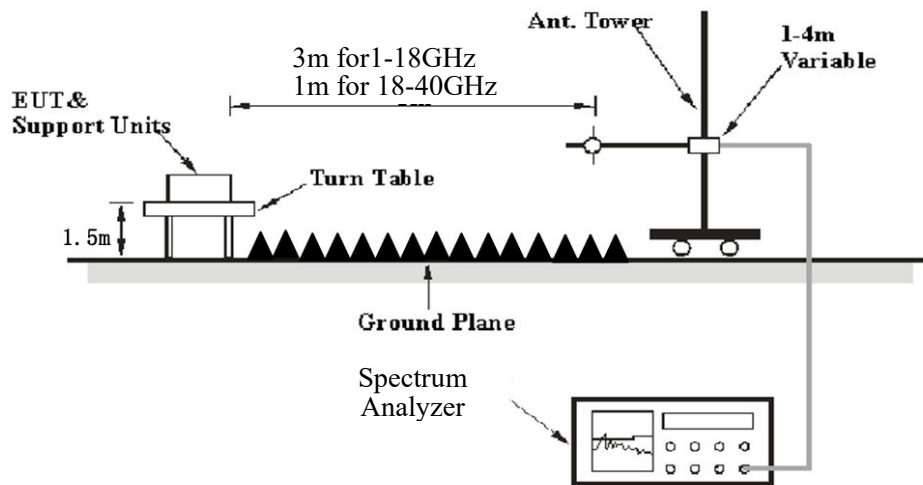
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (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.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

Below 1 GHz:



Above 1 GHz:

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with 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.

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	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1MHz	10 Hz ^{Note 1}	/	Ave.erage
	1MHz	> 1/T ^{Note 2}	/	Ave.erage

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Test Procedure**Radiated Spurious Emission**

During the radiated emission test, the adapter was connected to the AC floor outlet.

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

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

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

$E_{\text{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in dB μ V/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dB μ V/m
d_{Meas}	is the measurement distance, in m
$d_{\text{SpecLimit}}$	is the distance specified by the limit, in m

So the extrapolation factor of 1m is $20 \cdot \log(1/3) = -9.5$ dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level / Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data

Environmental Conditions

Temperature:	25~25.5°C
Relative Humidity:	52~55%
ATM Pressure:	101.0 kPa

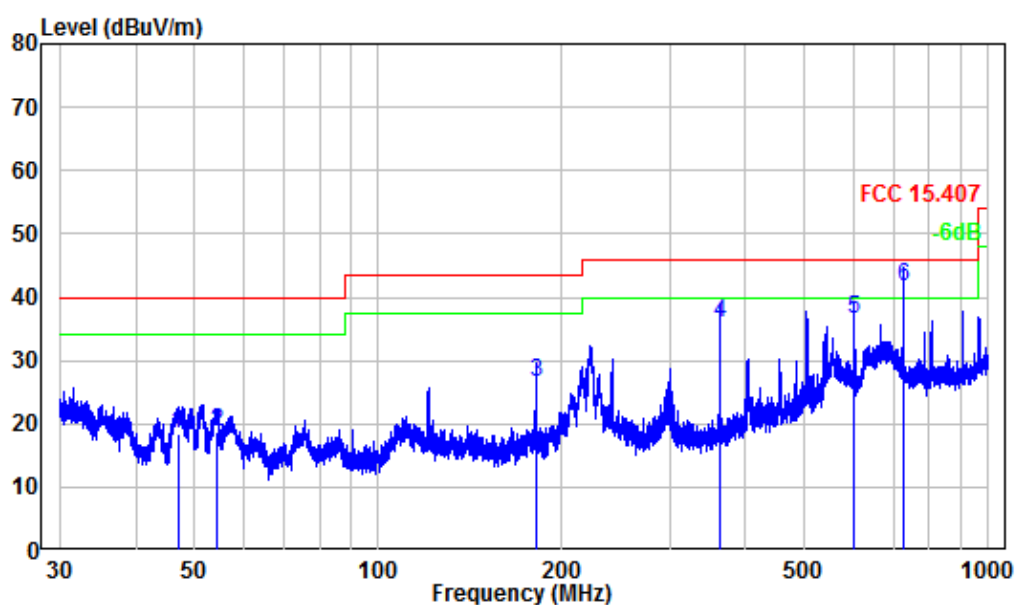
The testing was performed by Jimi Zheng on 2023-02-15 for below 1GHz, by Sett Zhang on 2023-02-07 for above 1GHz.

EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

30 MHz – 1 GHz: (worst case is 802.11a, 5200MHz)

Note: When the result of Peak less than the limit of QP by more than 6dB, just the peak value was recorded.

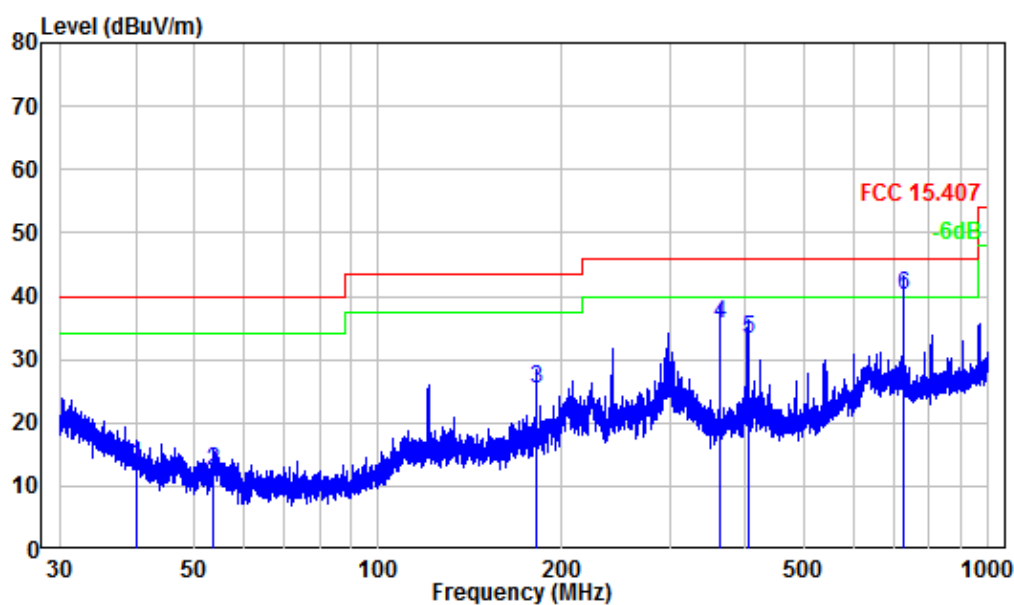
Horizontal



Site : chamber
Condition: 3m Horizontal
Job No. : RA230103-00156E-RF
Test Mode: 5G WIFI

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	
1	46.87	-14.74	33.29	18.55	40.00	-21.45 QP
2	54.21	-16.60	35.38	18.78	40.00	-21.22 QP
3	181.12	-12.20	38.62	26.42	43.50	-17.08 QP
4	362.35	-9.24	45.23	35.99	46.00	-10.01 QP
5	603.80	-4.31	40.75	36.44	46.00	-9.56 QP
6	724.58	-1.59	43.24	41.65	46.00	-4.35 QP

Vertical



Site : chamber
 Condition: 3m Vertical
 Job No. : RA230103-00156E-RF
 Test Mode: 5G WIFI

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.08	-10.44	23.74	13.30	40.00	-26.70	QP
2	53.62	-16.60	28.94	12.34	40.00	-27.66	QP
3	181.20	-12.21	37.58	25.37	43.50	-18.13	QP
4	362.35	-9.24	44.77	35.53	46.00	-10.47	QP
5	404.67	-7.20	40.45	33.25	46.00	-12.75	QP
6	724.58	-1.59	41.72	40.13	46.00	-5.87	QP

Above 1GHz:**5150-5250 MHz:**

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A(worst case ANT 2)									
5180MHz									
4500	64.42	PK	288	2.1	H	-4.72	59.70	74	-14.30
4500	52.80	AV	288	2.1	H	-4.72	48.08	54	-5.92
4500	64.26	PK	163	1.3	V	-4.72	59.54	74	-14.46
4500	52.69	AV	163	1.3	V	-4.72	47.97	54	-6.03
5150	66.90	PK	128	1.2	H	-2.73	64.17	74	-9.83
5150	54.45	AV	128	1.2	H	-2.73	51.72	54	-2.28
5150	66.06	PK	309	2.2	V	-2.73	63.33	74	-10.67
5150	53.47	AV	309	2.2	V	-2.73	50.74	54	-3.26
10360	55.57	PK	90	1.9	H	8.12	63.69	68.2	-4.51
10360	54.75	PK	246	1.9	V	8.12	62.87	68.2	-5.33
5200MHz									
10400	56.14	PK	145	2.3	H	8.24	64.38	68.2	-3.82
10400	53.89	PK	62	2.3	V	8.24	62.13	68.2	-6.07
5240MHz									
5350	64.81	PK	346	1.8	H	-2.33	62.48	74	-11.52
5350	51.45	AV	346	1.8	H	-2.33	49.12	54	-4.88
5350	64.68	PK	44	1.4	V	-2.33	62.35	74	-11.65
5350	51.29	AV	44	1.4	V	-2.33	48.96	54	-5.04
5460	62.71	PK	230	1.7	H	-2.26	60.45	74	-13.55
5460	48.77	AV	230	1.7	H	-2.26	46.51	54	-7.49
5460	62.59	PK	195	1.5	V	-2.26	60.33	74	-13.67
5460	48.66	AV	195	1.5	V	-2.26	46.40	54	-7.60
10480	55.80	PK	302	2.4	H	8.56	64.36	68.2	-3.84
10480	53.97	PK	238	2.4	V	8.56	62.53	68.2	-5.67

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5180MHz									
4500	64.70	PK	188	1	H	-4.72	59.98	74	-14.02
4500	52.86	AV	188	1	H	-4.72	48.14	54	-5.86
4500	64.59	PK	111	1.6	V	-4.72	59.87	74	-14.13
4500	52.74	AV	111	1.6	V	-4.72	48.02	54	-5.98
5150	67.17	PK	157	2.5	H	-2.73	64.44	74	-9.56
5150	54.24	AV	157	2.5	H	-2.73	51.51	54	-2.49
5150	66.48	PK	63	1.2	V	-2.73	63.75	74	-10.25
5150	53.61	AV	63	1.2	V	-2.73	50.88	54	-3.12
10360	55.45	PK	182	2.3	H	8.12	63.57	68.2	-4.63
10360	54.16	PK	251	2.3	V	8.12	62.28	68.2	-5.92
5200MHz									
10400	54.95	PK	47	1	H	8.24	63.19	68.2	-5.01
10400	53.80	PK	243	1	V	8.24	62.04	68.2	-6.16
5240MHz									
5350	64.41	PK	124	1.5	H	-2.33	62.08	74	-11.92
5350	50.69	AV	124	1.5	H	-2.33	48.36	54	-5.64
5350	64.23	PK	40	1.3	V	-2.33	61.90	74	-12.10
5350	50.56	AV	40	1.3	V	-2.33	48.23	54	-5.77
5460	62.59	PK	304	2	H	-2.26	60.33	74	-13.67
5460	48.97	AV	304	2	H	-2.26	46.71	54	-7.29
5460	62.48	PK	107	1.6	V	-2.26	60.22	74	-13.78
5460	48.86	AV	107	1.6	V	-2.26	46.60	54	-7.40
10480	54.28	PK	27	1.7	H	8.56	62.84	68.2	-5.36
10480	53.37	PK	354	1.7	V	8.56	61.93	68.2	-6.27

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m))	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5190MHz									
4500	64.62	PK	278	2.3	H	-4.72	59.90	74	-14.10
4500	53.29	AV	278	2.3	H	-4.72	48.57	54	-5.43
4500	64.51	PK	39	1	V	-4.72	59.79	74	-14.21
4500	53.18	AV	39	1	V	-4.72	48.46	54	-5.54
5150	67.05	PK	164	2	H	-2.73	64.32	74	-9.68
5150	54.31	AV	164	2	H	-2.73	51.58	54	-2.42
5150	66.70	PK	316	1.8	V	-2.73	63.97	74	-10.03
5150	53.64	AV	316	1.8	V	-2.73	50.91	54	-3.09
10380	54.01	PK	332	2.4	H	8.18	62.19	68.2	-6.01
10380	53.40	PK	76	2.4	V	8.18	61.58	68.2	-6.62
5230MHz									
5350	64.65	PK	72	1.8	H	-2.33	62.32	74	-11.68
5350	50.92	AV	72	1.8	H	-2.33	48.59	54	-5.41
5350	64.54	PK	129	2.3	V	-2.33	62.21	74	-11.79
5350	50.81	AV	129	2.3	V	-2.33	48.48	54	-5.52
5460	62.73	PK	219	1.3	H	-2.26	60.47	74	-13.53
5460	49.08	AV	219	1.3	H	-2.26	46.82	54	-7.18
5460	62.60	PK	51	1.9	V	-2.26	60.34	74	-13.66
5460	48.97	AV	51	1.9	V	-2.26	46.71	54	-7.29
10460	54.22	PK	135	1.9	H	8.47	62.69	68.2	-5.51
10460	53.63	PK	201	1.9	V	8.47	62.10	68.2	-6.10

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5180MHz									
4500	64.74	PK	231	2.3	H	-4.72	60.02	74	-13.98
4500	52.85	AV	231	2.3	H	-4.72	48.13	54	-5.87
4500	64.62	PK	245	2.1	V	-4.72	59.90	74	-14.10
4500	52.76	AV	245	2.1	V	-4.72	48.04	54	-5.96
5150	67.29	PK	197	1.8	H	-2.73	64.56	74	-9.44
5150	54.35	AV	197	1.8	H	-2.73	51.62	54	-2.38
5150	66.57	PK	334	2.3	V	-2.73	63.84	74	-10.16
5150	53.66	AV	334	2.3	V	-2.73	50.93	54	-3.07
10360	55.54	PK	80	1.6	H	8.12	63.66	68.2	-4.54
10360	54.31	PK	304	1.6	V	8.12	62.43	68.2	-5.77
5200MHz									
10400	55.01	PK	143	1.9	H	8.24	63.25	68.2	-4.95
10400	53.94	PK	292	1.9	V	8.24	62.18	68.2	-6.02
5240MHz									
5350	64.49	PK	52	1.9	H	-2.33	62.16	74	-11.84
5350	50.80	AV	52	1.9	H	-2.33	48.47	54	-5.53
5350	64.38	PK	263	1.9	V	-2.33	62.05	74	-11.95
5350	50.69	AV	263	1.9	V	-2.33	48.36	54	-5.64
5460	62.68	PK	258	2.4	H	-2.26	60.42	74	-13.58
5460	49.09	AV	258	2.4	H	-2.26	46.83	54	-7.17
5460	62.57	PK	270	2.3	V	-2.26	60.31	74	-13.69
5460	48.98	AV	270	2.3	V	-2.26	46.72	54	-7.28
10480	54.63	PK	347	2	H	8.56	63.19	68.2	-5.01
10480	53.54	PK	185	2	V	8.56	62.10	68.2	-6.10

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5190MHz									
4500	64.71	PK	262	1.2	H	-4.72	59.99	74	-14.01
4500	53.35	AV	262	1.2	H	-4.72	48.63	54	-5.37
4500	64.60	PK	309	1.7	V	-4.72	59.88	74	-14.12
4500	53.24	AV	309	1.7	V	-4.72	48.52	54	-5.48
5150	67.19	PK	150	1.5	H	-2.73	64.46	74	-9.54
5150	54.34	AV	150	1.5	H	-2.73	51.61	54	-2.39
5150	66.78	PK	144	1.1	V	-2.73	64.05	74	-9.95
5150	53.65	AV	144	1.1	V	-2.73	50.92	54	-3.08
10380	54.16	PK	283	2	H	8.18	62.34	68.2	-5.86
10380	53.47	PK	250	2	V	8.18	61.65	68.2	-6.55
5230MHz									
5350	64.72	PK	67	1.3	H	-2.33	62.39	74	-11.61
5350	50.95	AV	67	1.3	H	-2.33	48.62	54	-5.38
5350	64.60	PK	292	2.1	V	-2.33	62.27	74	-11.73
5350	50.84	AV	292	2.1	V	-2.33	48.51	54	-5.49
5460	62.70	PK	198	2	H	-2.26	60.44	74	-13.56
5460	49.15	AV	198	2	H	-2.26	46.89	54	-7.11
5460	62.59	PK	49	2.2	V	-2.26	60.33	74	-13.67
5460	49.04	AV	49	2.2	V	-2.26	46.78	54	-7.22
10460	54.25	PK	342	2	H	8.47	62.72	68.2	-5.48
10460	53.48	PK	71	2	V	8.47	61.95	68.2	-6.25

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5210MHz									
4500	65.04	PK	80	2	H	-4.72	60.32	74	-13.68
4500	54.13	AV	80	2	H	-4.72	49.41	54	-4.59
4500	64.92	PK	122	1.8	V	-4.72	60.20	74	-13.80
4500	54.00	AV	122	1.8	V	-4.72	49.28	54	-4.72
5150	67.77	PK	226	1.7	H	-2.73	65.04	74	-8.96
5150	55.24	AV	226	1.7	H	-2.73	52.51	54	-1.49
5150	67.31	PK	317	1.8	V	-2.73	64.58	74	-9.42
5150	54.72	AV	317	1.8	V	-2.73	51.99	54	-2.01
5350	64.85	PK	38	1.8	H	-2.33	62.52	74	-11.48
5350	51.24	AV	38	1.8	H	-2.33	48.91	54	-5.09
5350	64.73	PK	274	2.2	V	-2.33	62.40	74	-11.60
5350	51.12	AV	274	2.2	V	-2.33	48.79	54	-5.21
5460	62.58	PK	133	1.8	H	-2.26	60.32	74	-13.68
5460	49.67	AV	133	1.8	H	-2.26	47.41	54	-6.59
5460	62.46	PK	196	2	V	-2.26	60.20	74	-13.80
5460	49.55	AV	196	2	V	-2.26	47.29	54	-6.71
10420	54.05	PK	318	2.3	H	8.32	62.37	68.2	-5.83
10420	53.37	PK	354	2.3	V	8.32	61.69	68.2	-6.51

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AX20									
5180MHz									
4500	64.86	PK	291	1.3	H	-4.72	60.14	74	-13.86
4500	52.92	AV	291	1.3	H	-4.72	48.20	54	-5.80
4500	64.74	PK	21	2.3	V	-4.72	60.02	74	-13.98
4500	52.81	AV	21	2.3	V	-4.72	48.09	54	-5.91
5150	67.59	PK	128	1.2	H	-2.73	64.86	74	-9.14
5150	54.48	AV	128	1.2	H	-2.73	51.75	54	-2.25
5150	66.87	PK	262	2.4	V	-2.73	64.14	74	-9.86
5150	53.69	AV	262	2.4	V	-2.73	50.96	54	-3.04
10360	55.62	PK	87	1.9	H	8.12	63.74	68.2	-4.46
10360	54.46	PK	99	1.9	V	8.12	62.58	68.2	-5.62
5200MHz									
10400	55.17	PK	97	2.4	H	8.24	63.41	68.2	-4.79
10400	54.04	PK	6	2.4	V	8.24	62.28	68.2	-5.92
5240MHz									
5350	64.65	PK	146	1.1	H	-2.33	62.32	74	-11.68
5350	50.90	AV	146	1.1	H	-2.33	48.57	54	-5.43
5350	64.56	PK	265	1.2	V	-2.33	62.23	74	-11.77
5350	50.81	AV	265	1.2	V	-2.33	48.48	54	-5.52
5460	62.73	PK	62	2.4	H	-2.26	60.47	74	-13.53
5460	49.19	AV	62	2.4	H	-2.26	46.93	54	-7.07
5460	62.62	PK	5	2.1	V	-2.26	60.36	74	-13.64
5460	49.10	AV	5	2.1	V	-2.26	46.84	54	-7.16
10480	54.86	PK	348	1.5	H	8.56	63.42	68.2	-4.78
10480	53.93	PK	326	1.5	V	8.56	62.49	68.2	-5.71

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40									
5190MHz									
4500	64.85	PK	173	1.5	H	-4.72	60.13	74	-13.87
4500	53.42	AV	173	1.5	H	-4.72	48.70	54	-5.30
4500	64.74	PK	303	1.9	V	-4.72	60.02	74	-13.98
4500	53.30	AV	303	1.9	V	-4.72	48.58	54	-5.42
5150	67.35	PK	67	2.3	H	-2.73	64.62	74	-9.38
5150	54.47	AV	67	2.3	H	-2.73	51.74	54	-2.26
5150	66.99	PK	48	2.1	V	-2.73	64.26	74	-9.74
5150	53.71	AV	48	2.1	V	-2.73	50.98	54	-3.02
10380	54.45	PK	167	1.9	H	8.18	62.63	68.2	-5.57
10380	53.70	PK	37	1.9	V	8.18	61.88	68.2	-6.32
5230MHz									
5350	64.86	PK	70	1.9	H	-2.33	62.53	74	-11.47
5350	51.02	AV	70	1.9	H	-2.33	48.69	54	-5.31
5350	64.75	PK	292	2	V	-2.33	62.42	74	-11.58
5350	50.90	AV	292	2	V	-2.33	48.57	54	-5.43
5460	62.80	PK	297	1.8	H	-2.26	60.54	74	-13.46
5460	49.26	AV	297	1.8	H	-2.26	47.00	54	-7.00
5460	62.68	PK	29	1.3	V	-2.26	60.42	74	-13.58
5460	49.15	AV	29	1.3	V	-2.26	46.89	54	-7.11
10460	54.62	PK	13	2.2	H	8.47	63.09	68.2	-5.11
10460	53.85	PK	282	2.2	V	8.47	62.32	68.2	-5.88

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80									
5210MHz									
4500	64.98	PK	79	2.4	H	-4.72	60.26	74	-13.74
4500	54.19	AV	79	2.4	H	-4.72	49.47	54	-4.53
4500	64.86	PK	49	1.6	V	-4.72	60.14	74	-13.86
4500	54.10	AV	49	1.6	V	-4.72	49.38	54	-4.62
5150	67.85	PK	254	2.5	H	-2.73	65.12	74	-8.88
5150	55.31	AV	254	2.5	H	-2.73	52.58	54	-1.42
5150	67.46	PK	154	1.7	V	-2.73	64.73	74	-9.27
5150	54.78	AV	154	1.7	V	-2.73	52.05	54	-1.95
5350	64.95	PK	323	1.9	H	-2.33	62.62	74	-11.38
5350	51.29	AV	323	1.9	H	-2.33	48.96	54	-5.04
5350	64.82	PK	162	2.1	V	-2.33	62.49	74	-11.51
5350	51.18	AV	162	2.1	V	-2.33	48.85	54	-5.15
5460	62.67	PK	355	1.8	H	-2.26	60.41	74	-13.59
5460	49.71	AV	355	1.8	H	-2.26	47.45	54	-6.55
5460	62.56	PK	201	2.4	V	-2.26	60.30	74	-13.70
5460	49.59	AV	201	2.4	V	-2.26	47.33	54	-6.67
10420	54.16	PK	144	1.8	H	8.32	62.48	68.2	-5.72
10420	53.61	PK	158	1.8	V	8.32	61.93	68.2	-6.27

5250-5350 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A(worst case ANT 2)									
5260MHz									
4500	64.43	PK	105	1.9	H	-4.72	59.71	74	-14.29
4500	52.98	AV	105	1.9	H	-4.72	48.26	54	-5.74
4500	64.32	PK	168	1	V	-4.72	59.60	74	-14.40
4500	52.89	AV	168	1	V	-4.72	48.17	54	-5.83
5150	67.01	PK	97	1.3	H	-2.73	64.28	74	-9.72
5150	53.58	AV	97	1.3	H	-2.73	50.85	54	-3.15
5150	66.90	PK	58	2.2	V	-2.73	64.17	74	-9.83
5150	53.47	AV	58	2.2	V	-2.73	50.74	54	-3.26
10520	55.19	PK	93	1.4	H	8.65	63.84	68.2	-4.36
10520	54.28	PK	162	1.4	V	8.65	62.93	68.2	-5.27
5280MHz									
10560	55.60	PK	128	2.2	H	8.69	64.29	68.2	-3.91
10560	54.58	PK	241	2.2	V	8.69	63.27	68.2	-4.93
5320MHz									
5350	67.56	PK	197	1.9	H	-2.33	65.23	74	-8.77
5350	54.21	AV	197	1.9	H	-2.33	51.88	54	-2.12
5350	67.00	PK	209	1.2	V	-2.33	64.67	74	-9.33
5350	53.13	AV	209	1.2	V	-2.33	50.80	54	-3.20
5460	63.11	PK	235	1.2	H	-2.26	60.85	74	-13.15
5460	49.19	AV	235	1.2	H	-2.26	46.93	54	-7.07
5460	62.96	PK	331	2.4	V	-2.26	60.70	74	-13.30
5460	49.02	AV	331	2.4	V	-2.26	46.76	54	-7.24
10640	55.28	PK	145	1.6	H	8.92	64.20	74	-9.80
10640	42.47	AV	89	1.6	H	8.92	51.39	54	-2.61
10640	54.14	PK	224	1.7	V	8.92	63.06	74	-10.94
10640	41.21	AV	25	1.7	V	8.92	50.13	54	-3.87

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5260MHz									
4500	64.40	PK	276	1.4	H	-4.72	59.68	74	-14.32
4500	52.85	AV	276	1.4	H	-4.72	48.13	54	-5.87
4500	64.29	PK	141	2.2	V	-4.72	59.57	74	-14.43
4500	52.73	AV	141	2.2	V	-4.72	48.01	54	-5.99
5150	66.60	PK	359	2.4	H	-2.73	63.87	74	-10.13
5150	53.52	AV	359	2.4	H	-2.73	50.79	54	-3.21
5150	66.48	PK	252	1.6	V	-2.73	63.75	74	-10.25
5150	53.41	AV	252	1.6	V	-2.73	50.68	54	-3.32
10520	54.16	PK	36	2.3	H	8.65	62.81	68.2	-5.39
10520	53.29	PK	319	2.3	V	8.65	61.94	68.2	-6.26
5280MHz									
10560	54.68	PK	197	2.2	H	8.69	63.37	68.2	-4.83
10560	53.80	PK	291	2.2	V	8.69	62.49	68.2	-5.71
5320MHz									
5350	67.01	PK	128	2.2	H	-2.33	64.68	74	-9.32
5350	53.78	AV	128	2.2	H	-2.33	51.45	54	-2.55
5350	66.42	PK	107	2	V	-2.33	64.09	74	-9.91
5350	52.63	AV	107	2	V	-2.33	50.30	54	-3.70
5460	62.23	PK	289	2.3	H	-2.26	59.97	74	-14.03
5460	49.27	AV	289	2.3	H	-2.26	47.01	54	-6.99
5460	62.12	PK	283	2.1	V	-2.26	59.86	74	-14.14
5460	49.16	AV	283	2.1	V	-2.26	46.90	54	-7.10
10640	54.78	PK	21	2.4	H	8.92	63.70	74	-10.30
10640	42.30	AV	13	2.4	H	8.92	51.22	54	-2.78
10640	54.23	PK	274	2.1	V	8.92	63.15	74	-10.85
10640	41.12	AV	5	2.1	V	8.92	50.04	54	-3.96

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5270MHz									
4500	64.33	PK	246	2.2	H	-4.72	59.61	74	-14.39
4500	53.41	AV	246	2.2	H	-4.72	48.69	54	-5.31
4500	64.20	PK	322	2.3	V	-4.72	59.48	74	-14.52
4500	53.32	AV	322	2.3	V	-4.72	48.60	54	-5.40
5150	67.30	PK	279	1	H	-2.73	64.57	74	-9.43
5150	54.05	AV	279	1	H	-2.73	51.32	54	-2.68
5150	67.11	PK	234	2	V	-2.73	64.38	74	-9.62
5150	53.92	AV	234	2	V	-2.73	51.19	54	-2.81
10540	54.01	PK	85	2.4	H	8.65	62.66	68.2	-5.54
10540	52.87	PK	221	2.4	V	8.65	61.52	68.2	-6.68
5310MHz									
5350	65.41	PK	183	1.2	H	-2.33	63.08	74	-10.92
5350	52.62	AV	183	1.2	H	-2.33	50.29	54	-3.71
5350	65.30	PK	99	1.8	V	-2.33	62.97	74	-11.03
5350	52.51	AV	99	1.8	V	-2.33	50.18	54	-3.82
5460	62.23	PK	343	2.2	H	-2.26	59.97	74	-14.03
5460	49.41	AV	343	2.2	H	-2.26	47.15	54	-6.85
5460	62.12	PK	343	1	V	-2.26	59.86	74	-14.14
5460	49.30	AV	343	1	V	-2.26	47.04	54	-6.96
10620	54.13	PK	34	1	H	8.89	63.02	74	-10.98
10620	40.37	AV	286	1	H	8.89	49.26	54	-4.74
10620	53.48	PK	120	2	V	8.89	62.37	74	-11.63
10620	39.86	AV	222	2	V	8.89	48.75	54	-5.25

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5260MHz									
4500	64.53	PK	168	1.8	H	-4.72	59.81	74	-14.19
4500	53.04	AV	168	1.8	H	-4.72	48.32	54	-5.68
4500	64.42	PK	133	1.4	V	-4.72	59.70	74	-14.30
4500	52.93	AV	133	1.4	V	-4.72	48.21	54	-5.79
5150	67.17	PK	44	1.7	H	-2.73	64.44	74	-9.56
5150	54.01	AV	44	1.7	H	-2.73	51.28	54	-2.72
5150	66.92	PK	211	1	V	-2.73	64.19	74	-9.81
5150	53.65	AV	211	1	V	-2.73	50.92	54	-3.08
10520	54.25	PK	236	1.5	H	8.65	62.90	68.2	-5.30
10520	53.44	PK	33	1.5	V	8.65	62.09	68.2	-6.11
5280MHz									
10560	54.64	PK	245	1.1	H	8.69	63.33	68.2	-4.87
10560	53.76	PK	112	1.1	V	8.69	62.45	68.2	-5.75
5320MHz									
5350	67.35	PK	224	1.1	H	-2.33	65.02	74	-8.98
5350	54.30	AV	224	1.1	H	-2.33	51.97	54	-2.03
5350	66.69	PK	121	2.2	V	-2.33	64.36	74	-9.64
5350	53.21	AV	121	2.2	V	-2.33	50.88	54	-3.12
5460	62.41	PK	231	1.4	H	-2.26	60.15	74	-13.85
5460	49.82	AV	231	1.4	H	-2.26	47.56	54	-6.44
5460	52.29	PK	105	1.8	V	-2.26	50.03	74	-23.97
5460	49.70	AV	105	1.8	V	-2.26	47.44	54	-6.56
10640	54.60	PK	298	1.4	H	8.92	63.52	74	-10.48
10640	42.81	AV	228	1.4	H	8.92	51.73	54	-2.27
10640	53.14	PK	322	2	V	8.92	62.06	74	-11.94
10640	41.65	AV	331	2	V	8.92	50.57	54	-3.43

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5270MHz									
4500	64.62	PK	56	1.5	H	-4.72	59.90	74	-14.10
4500	53.80	AV	56	1.5	H	-4.72	49.08	54	-4.92
4500	64.49	PK	103	1.2	V	-4.72	59.77	74	-14.23
4500	53.68	AV	103	1.2	V	-4.72	48.96	54	-5.04
5150	67.62	PK	254	1.8	H	-2.73	64.89	74	-9.11
5150	54.51	AV	254	1.8	H	-2.73	51.78	54	-2.22
5150	67.19	PK	221	1.5	V	-2.73	64.46	74	-9.54
5150	54.07	AV	221	1.5	V	-2.73	51.34	54	-2.66
10540	54.08	PK	20	1.1	H	8.65	62.73	68.2	-5.47
10540	53.00	PK	325	1.1	V	8.65	61.65	68.2	-6.55
5310MHz									
5350	66.04	PK	142	1.7	H	-2.33	63.71	74	-10.29
5350	53.13	AV	142	1.7	H	-2.33	50.80	54	-3.20
5350	65.62	PK	35	1.6	V	-2.33	63.29	74	-10.71
5350	52.95	AV	35	1.6	V	-2.33	50.62	54	-3.38
5460	62.38	PK	248	2.4	H	-2.26	60.12	74	-13.88
5460	49.96	AV	248	2.4	H	-2.26	47.70	54	-6.30
5460	62.25	PK	279	1.7	V	-2.26	59.99	74	-14.01
5460	49.87	AV	279	1.7	V	-2.26	47.61	54	-6.39
10620	54.24	PK	93	1.4	H	8.89	63.13	74	-10.87
10620	41.01	AV	58	1.4	H	8.89	49.90	54	-4.10
10620	53.63	PK	238	2.2	V	8.89	62.52	74	-11.48
10620	40.37	AV	259	2.2	V	8.89	49.26	54	-4.74

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5290MHz									
4500	65.11	PK	169	1.4	H	-4.72	60.39	74	-13.61
4500	54.03	AV	169	1.4	H	-4.72	49.31	54	-4.69
4500	64.95	PK	157	1.3	V	-4.72	60.23	74	-13.77
4500	53.78	AV	157	1.3	V	-4.72	49.06	54	-4.94
5150	67.48	PK	170	2.2	H	-2.73	64.75	74	-9.25
5150	54.85	AV	170	2.2	H	-2.73	52.12	54	-1.88
5150	67.26	PK	328	1.3	V	-2.73	64.53	74	-9.47
5150	54.72	AV	328	1.3	V	-2.73	51.99	54	-2.01
5350	65.81	PK	326	1.3	H	-2.33	63.48	74	-10.52
5350	53.44	AV	326	1.3	H	-2.33	51.11	54	-2.89
5350	65.62	PK	18	1.6	V	-2.33	63.29	74	-10.71
5350	53.16	AV	18	1.6	V	-2.33	50.83	54	-3.17
5460	62.62	PK	40	1.5	H	-2.26	60.36	74	-13.64
5460	49.71	AV	40	1.5	H	-2.26	47.45	54	-6.55
5460	62.49	PK	297	1.4	V	-2.26	60.23	74	-13.77
5460	49.57	AV	297	1.4	V	-2.26	47.31	54	-6.69
10580	54.13	PK	224	2.1	H	8.77	62.9	68.2	-5.30
10580	53.68	PK	285	2.1	V	8.77	62.45	68.2	-5.75

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax20									
5260MHz									
4500	65.15	PK	32	1.4	H	-4.72	60.43	74	-13.57
4500	50.25	AV	32	1.4	H	-4.72	45.53	54	-8.47
4500	64.69	PK	108	2.3	V	-4.72	59.97	74	-14.03
4500	50.81	AV	108	2.3	V	-4.72	46.09	54	-7.91
5150	66.51	PK	3	2	H	-2.73	63.78	74	-10.22
5150	52.44	AV	3	2	H	-2.73	49.71	54	-4.29
5150	67.47	PK	125	1.4	V	-2.73	64.74	74	-9.26
5150	52.87	AV	125	1.4	V	-2.73	50.14	54	-3.86
10520	52.32	PK	225	1.9	H	8.65	60.97	68.2	-7.23
10520	52.81	PK	102	1.9	V	8.65	61.46	68.2	-6.74
5280MHz									
10560	53.13	PK	352	1	H	8.69	61.82	68.2	-6.38
10560	53.38	PK	18	1	V	8.69	62.07	68.2	-6.13
5320MHz									
5350	65.20	PK	52	1.8	H	-2.33	62.87	74	-11.13
5350	52.41	AV	52	1.8	H	-2.33	50.08	54	-3.92
5350	65.26	PK	282	2.1	V	-2.33	62.93	74	-11.07
5350	52.63	AV	282	2.1	V	-2.33	50.30	54	-3.70
5460	63.93	PK	356	2.4	H	-2.26	61.67	74	-12.33
5460	50.16	AV	356	2.4	H	-2.26	47.90	54	-6.10
5460	64.11	PK	168	2	V	-2.26	61.85	74	-12.15
5460	50.13	AV	168	2	V	-2.26	47.87	54	-6.13
10640	53.51	PK	351	1.1	H	8.92	62.43	74	-11.57
10640	41.17	AV	281	1.1	H	8.92	50.09	54	-3.91
10640	53.22	PK	183	1.1	V	8.92	62.14	74	-11.86
10640	40.89	AV	344	1.1	V	8.92	49.81	54	-4.19

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40									
5270MHz									
4500	64.41	PK	62	1.4	H	-4.72	59.69	74	-14.31
4500	51.16	AV	62	1.4	H	-4.72	46.44	54	-7.56
4500	64.88	PK	277	1.3	V	-4.72	60.16	74	-13.84
4500	51.02	AV	277	1.3	V	-4.72	46.30	54	-7.70
5150	67.07	PK	79	1.2	H	-2.73	64.34	74	-9.66
5150	52.34	AV	79	1.2	H	-2.73	49.61	54	-4.39
5150	67.53	PK	150	1.6	V	-2.73	64.80	74	-9.20
5150	52.84	AV	150	1.6	V	-2.73	50.11	54	-3.89
10540	51.49	PK	55	1.6	H	8.65	60.14	68.2	-8.06
10540	52.43	PK	258	1.6	V	8.65	61.08	68.2	-7.12
5310MHz									
5350	67.35	PK	245	2.4	H	-2.33	65.02	74	-8.98
5350	52.29	AV	245	2.4	H	-2.33	49.96	54	-4.04
5350	69.26	PK	352	1.8	V	-2.33	66.93	74	-7.07
5350	53.40	AV	352	1.8	V	-2.33	51.07	54	-2.93
5460	64.23	PK	226	2.5	H	-2.26	61.97	74	-12.03
5460	50.21	AV	226	2.5	H	-2.26	47.95	54	-6.05
5460	63.85	PK	212	2.1	V	-2.26	61.59	74	-12.41
5460	49.99	AV	212	2.1	V	-2.26	47.73	54	-6.27
10620	52.88	PK	208	2	H	8.89	61.77	74	-12.23
10620	41.11	AV	40	2	H	8.89	50.00	54	-4.00
10620	53.44	PK	253	1.6	V	8.89	62.33	74	-11.67
10620	40.94	AV	127	1.6	V	8.89	49.83	54	-4.17

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80									
5290MHz									
4500	64.17	PK	221	2.2	H	-4.72	59.45	74	-14.55
4500	50.57	AV	221	2.2	H	-4.72	45.85	54	-8.15
4500	64.20	PK	275	2.2	V	-4.72	59.48	74	-14.52
4500	50.93	AV	275	2.2	V	-4.72	46.21	54	-7.79
5150	66.62	PK	231	1.2	H	-2.73	63.89	74	-10.11
5150	52.92	AV	231	1.2	H	-2.73	50.19	54	-3.81
5150	66.82	PK	232	1.6	V	-2.73	64.09	74	-9.91
5150	53.23	AV	232	1.6	V	-2.73	50.50	54	-3.50
5350	69.38	PK	282	1.4	H	-2.33	67.05	74	-6.95
5350	55.30	AV	282	1.4	H	-2.33	52.97	54	-1.03
5350	69.57	PK	220	1.4	V	-2.33	67.24	74	-6.76
5350	54.49	AV	220	1.4	V	-2.33	52.16	54	-1.84
5460	64.19	PK	276	1.1	H	-2.26	61.93	74	-12.07
5460	50.03	AV	276	1.1	H	-2.26	47.77	54	-6.23
5460	63.95	PK	14	1.2	V	-2.26	61.69	74	-12.31
5460	50.15	AV	14	1.2	V	-2.26	47.89	54	-6.11
10580	52.75	PK	326	1.1	H	8.77	61.52	68.2	-6.68
10580	53.57	PK	52	1.1	V	8.77	62.34	68.2	-5.86

5470-5725MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A(worst case ANT 2)									
5500MHz									
5460	63.06	PK	128	2	H	-2.26	60.80	74	-13.20
5460	50.54	AV	128	2	H	-2.26	48.28	54	-5.72
5460	61.39	PK	63	1.3	V	-2.26	59.13	74	-14.87
5460	49.94	AV	63	1.3	V	-2.26	47.68	54	-6.32
5470	64.18	PK	288	1.7	H	-2.22	61.96	68.2	-6.24
5470	62.61	PK	318	1.8	V	-2.22	60.39	68.2	-7.81
11000	52.29	PK	217	1.7	H	9.67	61.96	74	-12.04
11000	38.26	AV	295	1.7	H	9.67	47.93	54	-6.07
11000	51.39	PK	173	1.8	V	9.67	61.06	74	-12.94
11000	38.61	AV	291	1.8	V	9.67	48.28	54	-5.72
5580MHz									
11160	52.28	PK	245	1.6	H	8.68	60.96	74	-13.04
11160	40.28	AV	222	1.6	H	8.68	48.96	54	-5.04
11160	53.88	PK	356	2.1	V	8.68	62.56	74	-11.44
11160	40.28	AV	174	2.1	V	8.68	48.96	54	-5.04
5700MHz									
5725	63.63	PK	281	2.1	H	-1.96	61.67	68.2	-6.53
5725	64.60	PK	179	1.7	V	-1.96	62.64	68.2	-5.56
5745	62.84	PK	22	1.1	H	-1.91	60.93	68.2	-7.27
5745	63.61	PK	299	1.9	V	-1.91	61.70	68.2	-6.50
11400	53.82	PK	113	1.9	H	7.26	61.08	74	-12.92
11400	42.36	AV	125	1.9	H	7.26	49.62	54	-4.38
11400	54.99	PK	326	1.7	V	7.26	62.25	74	-11.75
11400	41.99	AV	317	1.7	V	7.26	49.25	54	-4.75

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5500MHz									
5460	63.19	PK	273	1.9	H	-2.26	60.93	74	-13.07
5460	49.24	AV	273	1.9	H	-2.26	46.98	54	-7.02
5460	62.95	PK	155	2.2	V	-2.26	60.69	74	-13.31
5460	48.94	AV	155	2.2	V	-2.26	46.68	54	-7.32
5470	64.09	PK	101	2.5	H	-2.22	61.87	68.2	-6.33
5470	64.11	PK	347	1.7	V	-2.22	61.89	68.2	-6.31
11000	52.38	PK	281	1	H	9.67	62.05	74	-11.95
11000	39.82	AV	312	1	H	9.67	49.49	54	-4.51
11000	52.48	PK	286	1.2	V	9.67	62.15	74	-11.85
11000	39.98	AV	2	1.2	V	9.67	49.65	54	-4.35
5580MHz									
11160	52.78	PK	201	2.5	H	8.68	61.46	74	-12.54
11160	40.62	AV	184	2.5	H	8.68	49.30	54	-4.70
11160	51.75	PK	356	1.6	V	8.68	60.43	74	-13.57
11160	40.56	AV	248	1.6	V	8.68	49.24	54	-4.76
5700MHz									
5725	64.26	PK	47	1.7	H	-1.96	62.30	68.2	-5.90
5725	64.39	PK	193	1.9	V	-1.96	62.43	68.2	-5.77
5745	65.23	PK	357	2.3	H	-1.91	63.32	68.2	-4.88
5745	65.21	PK	11	2.1	V	-1.91	63.30	68.2	-4.90
11400	54.96	PK	88	2.5	H	7.26	62.22	74	-11.78
11400	41.38	AV	50	2.5	H	7.26	48.64	54	-5.36
11400	54.37	PK	233	1.1	V	7.26	61.63	74	-12.37
11400	41.17	AV	152	1.1	V	7.26	48.43	54	-5.57

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5510MHz									
5460	62.74	PK	31	1.2	H	-2.26	60.48	74	-13.52
5460	48.82	AV	31	1.2	H	-2.26	46.56	54	-7.44
5460	62.89	PK	316	2.2	V	-2.26	60.63	74	-13.37
5460	48.92	AV	316	2.2	V	-2.26	46.66	54	-7.34
5470	66.16	PK	20	1.6	H	-2.22	63.94	68.2	-4.26
5470	66.11	PK	226	1.2	V	-2.22	63.89	68.2	-4.31
11020	52.58	PK	130	1.1	H	9.57	62.15	74	-11.85
11020	39.07	AV	320	1.1	H	9.57	48.64	54	-5.36
11020	52.54	PK	260	2.3	V	9.57	62.11	74	-11.89
11020	38.71	AV	70	2.3	V	9.57	48.28	54	-5.72
5550MHz									
11100	51.80	PK	352	1.4	H	9.12	60.92	74	-13.08
11100	37.88	AV	293	1.4	H	9.12	47.00	54	-7.00
11100	50.97	PK	149	1.2	V	9.12	60.09	74	-13.91
11100	37.96	AV	172	1.2	V	9.12	47.08	54	-6.92
5670MHz									
5725	65.47	PK	69	1.8	H	-1.96	63.51	68.2	-4.69
5725	65.12	PK	1	2.2	V	-1.96	63.16	68.2	-5.04
5745	64.23	PK	350	2.2	H	-1.91	62.32	68.2	-5.88
5745	63.95	PK	346	1.7	V	-1.91	62.04	68.2	-6.16
11340	53.01	PK	350	2.1	H	7.67	60.68	74	-13.32
11340	39.90	AV	46	2.1	H	7.67	47.57	54	-6.43
11340	53.74	PK	92	1.8	V	7.67	61.41	74	-12.59
11340	39.90	AV	277	1.8	V	7.67	47.57	54	-6.43

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5500MHz									
5460	63.24	PK	100	2	H	-2.26	60.98	74	-13.02
5460	49.22	AV	100	2	H	-2.26	46.96	54	-7.04
5460	62.83	PK	8	2.4	V	-2.26	60.57	74	-13.43
5460	49.04	AV	8	2.4	V	-2.26	46.78	54	-7.22
5470	66.10	PK	276	1.7	H	-2.22	63.88	68.2	-4.32
5470	66.17	PK	137	2.4	V	-2.22	63.95	68.2	-4.25
11000	52.69	PK	108	2.1	H	9.67	62.36	74	-11.64
11000	39.82	AV	344	2.1	H	9.67	49.49	54	-4.51
11000	52.57	PK	185	2.1	V	9.67	62.24	74	-11.76
11000	39.91	AV	327	2.1	V	9.67	49.58	54	-4.42
5580MHz									
11160	52.58	PK	165	2.3	H	8.68	61.26	74	-12.74
11160	40.34	AV	82	2.3	H	8.68	49.02	54	-4.98
11160	52.88	PK	262	2	V	8.68	61.56	74	-12.44
11160	40.46	AV	245	2	V	8.68	49.14	54	-4.86
5700MHz									
5725	64.90	PK	145	1.6	H	-1.96	62.94	68.2	-5.26
5725	65.35	PK	241	1.3	V	-1.96	63.39	68.2	-4.81
5745	64.06	PK	150	1.3	H	-1.91	62.15	68.2	-6.05
5745	63.83	PK	308	1.6	V	-1.91	61.92	68.2	-6.28
11400	53.98	PK	199	2.2	H	7.26	61.24	74	-12.76
11400	40.76	AV	124	2.2	H	7.26	48.02	54	-5.98
11400	54.46	PK	99	1.8	V	7.26	61.72	74	-12.28
11400	40.60	AV	18	1.8	V	7.26	47.86	54	-6.14

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5510MHz									
5460	62.75	PK	146	2.3	H	-2.26	60.49	74	-13.51
5460	49.22	AV	146	2.3	H	-2.26	46.96	54	-7.04
5460	62.86	PK	291	2.1	V	-2.26	60.60	74	-13.40
5460	48.75	AV	291	2.1	V	-2.26	46.49	54	-7.51
5470	65.84	PK	210	1.5	H	-2.22	63.62	68.2	-4.58
5470	65.81	PK	22	1	V	-2.22	63.59	68.2	-4.61
11020	51.92	PK	194	2.5	H	9.57	61.49	74	-12.51
11020	39.35	AV	343	2.5	H	9.57	48.92	54	-5.08
11020	51.20	PK	157	2	V	9.57	60.77	74	-13.23
11020	39.35	AV	337	2	V	9.57	48.92	54	-5.08
5550MHz									
11100	51.82	PK	223	1.5	H	9.12	60.94	74	-13.06
11100	38.60	AV	53	1.5	H	9.12	47.72	54	-6.28
11100	51.70	PK	324	2.4	V	9.12	60.82	74	-13.18
11100	38.61	AV	243	2.4	V	9.12	47.73	54	-6.27
5670MHz									
5725	65.20	PK	195	2.1	H	-1.96	63.24	68.2	-4.96
5725	65.37	PK	183	1.8	V	-1.96	63.41	68.2	-4.79
5745	64.04	PK	152	1.9	H	-1.91	62.13	68.2	-6.07
5745	64.54	PK	169	2	V	-1.91	62.63	68.2	-5.57
11340	53.67	PK	4	1.6	H	7.67	61.34	74	-12.66
11340	40.12	AV	77	1.6	H	7.67	47.79	54	-6.21
11340	53.51	PK	115	1	V	7.67	61.18	74	-12.82
11340	40.04	AV	227	1	V	7.67	47.71	54	-6.29

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5530MHz									
5460	65.72	PK	62	1.7	H	-2.26	63.46	74	-10.54
5460	50.40	AV	62	1.7	H	-2.26	48.14	54	-5.86
5460	62.13	PK	33	2.3	V	-2.26	59.87	74	-14.13
5460	50.02	AV	33	2.3	V	-2.26	47.76	54	-6.24
5470	65.83	PK	317	1.5	H	-2.22	63.61	68.2	-4.59
5470	61.78	PK	303	1.2	V	-2.22	59.56	68.2	-8.64
11060	50.56	PK	149	2.2	H	9.37	59.93	74	-14.07
11060	38.42	AV	121	2.2	H	9.37	47.79	54	-6.21
11060	51.24	PK	224	1.5	V	9.37	60.61	74	-13.39
11060	38.10	AV	317	1.5	V	9.37	47.47	54	-6.53
5610MHz									
5725	61.21	PK	264	1.5	H	-1.96	59.25	68.2	-8.95
5725	61.79	PK	1	1.1	V	-1.96	59.83	68.2	-8.37
5745	61.17	PK	275	2.2	H	-1.91	59.26	68.2	-8.94
5745	61.66	PK	165	1.3	V	-1.91	59.75	68.2	-8.45
11220	53.24	PK	96	2.4	H	8.33	61.57	74	-12.43
11220	40.84	AV	341	2.4	H	8.33	49.17	54	-4.83
11220	52.69	PK	19	1.4	V	8.33	61.02	74	-12.98
11220	41.06	AV	269	1.4	V	8.33	49.39	54	-4.61

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax20									
5500MHz									
5460	63.21	PK	320	2.2	H	-2.26	60.95	74	-13.05
5460	49.37	AV	320	2.2	H	-2.26	47.11	54	-6.89
5460	63.05	PK	243	2.1	V	-2.26	60.79	74	-13.21
5460	49.71	AV	243	2.1	V	-2.26	47.45	54	-6.55
5470	64.90	PK	111	2.4	H	-2.22	62.68	68.2	-5.52
5470	64.86	PK	347	2.3	V	-2.22	62.64	68.2	-5.56
11000	51.74	PK	78	1.1	H	9.67	61.41	74	-12.59
11000	39.97	AV	319	1.1	H	9.67	49.64	54	-4.36
11000	51.77	PK	189	2.4	V	9.67	61.44	74	-12.56
11000	40.01	AV	285	2.4	V	9.67	49.68	54	-4.32
5580MHz									
11160	52.30	PK	343	1.9	H	8.68	60.98	74	-13.02
11160	40.49	AV	349	1.9	H	8.68	49.17	54	-4.83
11160	52.49	PK	294	2.4	V	8.68	61.17	74	-12.83
11160	40.26	AV	161	2.4	V	8.68	48.94	54	-5.06
5700MHz									
5725	64.68	PK	109	1.5	H	-1.96	62.72	68.2	-5.48
5725	65.39	PK	83	2	V	-1.96	63.43	68.2	-4.77
5745	64.25	PK	201	1.3	H	-1.91	62.34	68.2	-5.86
5745	63.80	PK	352	2.2	V	-1.91	61.89	68.2	-6.31
11400	53.52	PK	261	2.4	H	7.26	60.78	74	-13.22
11400	41.76	AV	284	2.4	H	7.26	49.02	54	-4.98
11400	53.43	PK	139	2.5	V	7.26	60.69	74	-13.31
11400	41.57	AV	229	2.5	V	7.26	48.83	54	-5.17

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40									
5510MHz									
5460	63.11	PK	117	2.5	H	-2.26	60.85	74	-13.15
5460	48.86	AV	117	2.5	H	-2.26	46.60	54	-7.40
5460	62.86	PK	14	1.5	V	-2.26	60.60	74	-13.40
5460	49.04	AV	14	1.5	V	-2.26	46.78	54	-7.22
5470	65.14	PK	203	2.4	H	-2.22	62.92	68.2	-5.28
5470	65.35	PK	299	1.9	V	-2.22	63.13	68.2	-5.07
11020	51.82	PK	155	2.3	H	9.57	61.39	74	-12.61
11020	39.81	AV	298	2.3	H	9.57	49.38	54	-4.62
11020	51.75	PK	108	1.9	V	9.57	61.32	74	-12.68
11020	40.08	AV	291	1.9	V	9.57	49.65	54	-4.35
5550MHz									
11100	51.18	PK	214	1.3	H	9.12	60.30	74	-13.70
11100	38.98	AV	333	1.3	H	9.12	48.10	54	-5.90
11100	50.80	PK	228	1.7	V	9.12	59.92	74	-14.08
11100	39.03	AV	38	1.7	V	9.12	48.15	54	-5.85
5670MHz									
5725	65.27	PK	299	2.2	H	-1.96	63.31	68.2	-4.89
5725	65.41	PK	131	1.7	V	-1.96	63.45	68.2	-4.75
5745	64.54	PK	298	1.5	H	-1.91	62.63	68.2	-5.57
5745	64.54	PK	60	1.8	V	-1.91	62.63	68.2	-5.57
11340	53.16	PK	152	1.4	H	7.67	60.83	74	-13.17
11340	40.86	AV	199	1.4	H	7.67	48.53	54	-5.47
11340	53.20	PK	230	1.7	V	7.67	60.87	74	-13.13
11340	40.85	AV	85	1.7	V	7.67	48.52	54	-5.48

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80									
5530MHz									
5460	65.99	PK	348	2.1	H	-2.26	63.73	74	-10.27
5460	54.36	AV	348	2.1	H	-2.26	52.10	54	-1.90
5460	65.96	PK	187	1.6	V	-2.26	63.70	74	-10.30
5460	54.43	AV	187	1.6	V	-2.26	52.17	54	-1.83
5470	66.78	PK	237	1	H	-2.22	64.56	68.2	-3.64
5470	67.00	PK	232	1.1	V	-2.22	64.78	68.2	-3.42
11060	51.40	PK	269	1.8	H	9.37	60.77	74	-13.23
11060	38.64	AV	288	1.8	H	9.37	48.01	54	-5.99
11060	51.26	PK	128	2.1	V	9.37	60.63	74	-13.37
11060	38.36	AV	64	2.1	V	9.37	47.73	54	-6.27
5610MHz									
5725	63.34	PK	322	2.2	H	-1.96	61.38	68.2	-6.82
5725	63.97	PK	62	1.9	V	-1.96	62.01	68.2	-6.19
5745	62.45	PK	28	1.3	H	-1.91	60.54	68.2	-7.66
5745	62.48	PK	226	1.4	V	-1.91	60.57	68.2	-7.63
11220	52.64	PK	344	2.4	H	8.33	60.97	74	-13.03
11220	39.96	AV	162	2.4	H	8.33	48.29	54	-5.71
11220	52.95	PK	99	2.1	V	8.33	61.28	74	-12.72
11220	39.76	AV	217	2.1	V	8.33	48.09	54	-5.91

5725-5850 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A(worst case ANT 2)									
5745MHz									
5650	62.49	PK	329	2	H	-1.95	60.54	68.2	-7.66
5700	63.60	PK	311	2.2	H	-2.02	61.58	105.2	-43.62
5720	67.06	PK	195	1.6	H	-1.97	65.09	110.8	-45.71
5725	77.56	PK	38	2.3	H	-1.96	75.60	122.2	-46.60
5650	62.37	PK	222	1.5	V	-1.95	60.42	68.2	-7.78
5700	63.30	PK	141	2.5	V	-2.02	61.28	105.2	-43.92
5720	67.05	PK	239	1.5	V	-1.97	65.08	110.8	-45.72
5725	76.61	PK	101	1.6	V	-1.96	74.65	122.2	-47.55
11490	53.76	PK	340	1.6	H	6.63	60.39	74	-13.61
11490	41.20	AV	199	1.6	H	6.63	47.83	54	-6.17
11490	53.48	PK	86	1.1	V	6.63	60.11	74	-13.89
11490	41.33	AV	117	1.1	V	6.63	47.96	54	-6.04
5785MHz									
11570	54.54	PK	291	1.4	H	6.59	61.13	74	-12.87
11570	41.44	AV	259	1.4	H	6.59	48.03	54	-5.97
11570	54.57	PK	262	2.2	V	6.59	61.16	74	-12.84
11570	41.66	AV	149	2.2	V	6.59	48.25	54	-5.75
5825MHz									
5850	70.08	PK	73	2.2	H	-1.81	68.27	122.2	-53.93
5855	66.49	PK	185	1.5	H	-1.82	64.67	110.8	-46.13
5875	64.47	PK	110	1.1	H	-1.84	62.63	105.2	-42.57
5925	63.84	PK	173	2.5	H	-1.82	62.02	68.2	-6.18
5850	68.61	PK	75	2.2	V	-1.81	66.80	122.2	-55.40
5855	66.96	PK	66	2.3	V	-1.82	65.14	110.8	-45.66
5875	65.01	PK	286	1.3	V	-1.84	63.17	105.2	-42.03
5925	63.65	PK	223	1.5	V	-1.82	61.83	68.2	-6.37
11650	53.38	PK	240	1.7	H	6.77	60.15	74	-13.85
11650	41.00	AV	141	1.7	H	6.77	47.77	54	-6.23
11650	53.83	PK	247	2.1	V	6.77	60.60	74	-13.40
11650	41.07	AV	321	2.1	V	6.77	47.84	54	-6.16

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5745MHz									
5650	62.13	PK	151	1.9	H	-1.95	60.18	68.2	-8.02
5700	63.64	PK	24	1.7	H	-2.02	61.62	105.2	-43.58
5720	65.35	PK	334	2.3	H	-1.97	63.38	110.8	-47.42
5725	76.50	PK	195	2.2	H	-1.96	74.54	122.2	-47.66
5650	62.12	PK	91	2.4	V	-1.95	60.17	68.2	-8.03
5700	63.66	PK	112	1.6	V	-2.02	61.64	105.2	-43.56
5720	65.50	PK	177	2.2	V	-1.97	63.53	110.8	-47.27
5725	76.16	PK	89	1.5	V	-1.96	74.20	122.2	-48.00
11490	54.34	PK	176	1.9	H	6.63	60.97	74	-13.03
11490	41.18	AV	156	1.9	H	6.63	47.81	54	-6.19
11490	53.71	PK	205	2.3	V	6.63	60.34	74	-13.66
11490	41.16	AV	235	2.3	V	6.63	47.79	54	-6.21
5785MHz									
11570	54.61	PK	234	1.5	H	6.59	61.20	74	-12.80
11570	41.25	AV	184	1.5	H	6.59	47.84	54	-6.16
11570	54.66	PK	261	2.2	V	6.59	61.25	74	-12.75
11570	41.67	AV	349	2.2	V	6.59	48.26	54	-5.74
5825MHz									
5850	71.13	PK	318	1.6	H	-1.81	69.32	122.2	-52.88
5855	68.01	PK	194	1.2	H	-1.82	66.19	110.8	-44.61
5875	65.37	PK	333	2.3	H	-1.84	63.53	105.2	-41.67
5925	63.74	PK	224	1.1	H	-1.82	61.92	68.2	-6.28
5850	71.16	PK	327	1.5	V	-1.81	69.35	122.2	-52.85
5855	67.08	PK	86	1.8	V	-1.82	65.26	110.8	-45.54
5875	64.97	PK	199	1.5	V	-1.84	63.13	105.2	-42.07
5925	63.69	PK	316	2.1	V	-1.82	61.87	68.2	-6.33
11650	54.12	PK	215	1.4	H	6.77	60.89	74	-13.11
11650	41.00	AV	136	1.4	H	6.77	47.77	54	-6.23
11650	53.26	PK	58	1.7	V	6.77	60.03	74	-13.97
11650	41.02	AV	281	1.7	V	6.77	47.79	54	-6.21

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5755MHz									
5650	62.31	PK	204	2.4	H	-1.95	60.36	68.2	-7.84
5700	63.65	PK	318	1.5	H	-2.02	61.63	105.2	-43.57
5720	69.07	PK	308	1	H	-1.97	67.10	110.8	-43.70
5725	70.64	PK	59	2.1	H	-1.96	68.68	122.2	-53.52
5650	62.19	PK	199	1.4	V	-1.95	60.24	68.2	-7.96
5700	63.43	PK	63	1.9	V	-2.02	61.41	105.2	-43.79
5720	67.23	PK	300	2.3	V	-1.97	65.26	110.8	-45.54
5725	70.48	PK	303	1.2	V	-1.96	68.52	122.2	-53.68
11510	53.60	PK	162	1.4	H	6.59	60.19	74	-13.81
11510	39.82	AV	58	1.4	H	6.59	46.41	54	-7.59
11510	54.08	PK	189	1.9	V	6.59	60.67	74	-13.33
11510	40.45	AV	217	1.9	V	6.59	47.04	54	-6.96
5795MHz									
5850	65.63	PK	232	1.6	H	-1.81	63.82	122.2	-58.38
5855	65.25	PK	62	1.4	H	-1.82	63.43	110.8	-47.37
5875	64.74	PK	309	1.6	H	-1.84	62.90	105.2	-42.30
5925	63.72	PK	114	2	H	-1.82	61.90	68.2	-6.30
5850	65.61	PK	194	1.2	V	-1.81	63.80	122.2	-58.40
5855	65.01	PK	224	1.9	V	-1.82	63.19	110.8	-47.61
5875	65.16	PK	343	1.4	V	-1.84	63.32	105.2	-41.88
5925	63.82	PK	24	1.2	V	-1.82	62.00	68.2	-6.20
11590	54.22	PK	28	1.2	H	6.57	60.79	74	-13.21
11590	40.04	AV	321	1.2	H	6.57	46.61	54	-7.39
11590	53.76	PK	181	1.6	V	6.57	60.33	74	-13.67
11590	39.75	AV	245	1.6	V	6.57	46.32	54	-7.68

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5745MHz									
5650	62.29	PK	16	2.1	H	-1.95	60.34	68.2	-7.86
5700	63.37	PK	241	2.4	H	-2.02	61.35	105.2	-43.85
5720	65.25	PK	309	2.4	H	-1.97	63.28	110.8	-47.52
5725	76.56	PK	315	1.4	H	-1.96	74.60	122.2	-47.60
5650	62.12	PK	84	2.4	V	-1.95	60.17	68.2	-8.03
5700	63.66	PK	262	1.7	V	-2.02	61.64	105.2	-43.56
5720	65.50	PK	286	2.3	V	-1.97	63.53	110.8	-47.27
5725	76.16	PK	250	2.5	V	-1.96	74.20	122.2	-48.00
11490	53.49	PK	86	1.3	H	6.63	60.12	74	-13.88
11490	41.42	AV	69	1.3	H	6.63	48.05	54	-5.95
11490	53.88	PK	315	1.1	V	6.63	60.51	74	-13.49
11490	41.37	AV	158	1.1	V	6.63	48.00	54	-6.00
5785MHz									
11570	53.81	PK	178	2	H	6.59	60.40	74	-13.60
11570	41.56	AV	270	2	H	6.59	48.15	54	-5.85
11570	53.90	PK	76	1.1	V	6.59	60.49	74	-13.51
11570	41.56	AV	320	1.1	V	6.59	48.15	54	-5.85
5825MHz									
5850	70.44	PK	47	1.1	H	-1.81	68.63	122.2	-53.57
5855	66.87	PK	119	1.5	H	-1.82	65.05	110.8	-45.75
5875	65.03	PK	59	1.7	H	-1.84	63.19	105.2	-42.01
5925	63.82	PK	223	1.8	H	-1.82	62.00	68.2	-6.20
5850	70.25	PK	22	1.1	V	-1.81	68.44	122.2	-53.76
5855	67.46	PK	264	1.8	V	-1.82	65.64	110.8	-45.16
5875	64.53	PK	199	1.2	V	-1.84	62.69	105.2	-42.51
5925	63.69	PK	8	2.1	V	-1.82	61.87	68.2	-6.33
11650	53.42	PK	158	1.9	H	6.77	60.19	74	-13.81
11650	40.71	AV	332	1.9	H	6.77	47.48	54	-6.52
11650	53.90	PK	149	2	V	6.77	60.67	74	-13.33
11650	41.11	AV	105	2	V	6.77	47.88	54	-6.12

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5755MHz									
5650	62.38	PK	351	1.6	H	-1.95	60.43	68.2	-7.77
5700	63.22	PK	158	2.4	H	-2.02	61.20	105.2	-44.00
5720	68.68	PK	20	1.3	H	-1.97	66.71	110.8	-44.09
5725	69.56	PK	310	1.9	H	-1.96	67.60	122.2	-54.60
5650	62.20	PK	149	1.3	V	-1.95	60.25	68.2	-7.95
5700	63.52	PK	63	1.4	V	-2.02	61.50	105.2	-43.70
5720	69.11	PK	329	1.2	V	-1.97	67.14	110.8	-43.66
5725	69.98	PK	258	1.4	V	-1.96	68.02	122.2	-54.18
11510	54.46	PK	181	1.4	H	6.59	61.05	74	-12.95
11510	40.39	AV	350	1.4	H	6.59	46.98	54	-7.02
11510	53.63	PK	149	2.5	V	6.59	60.22	74	-13.78
11510	39.67	AV	215	2.5	V	6.59	46.26	54	-7.74
5795MHz									
5850	65.78	PK	49	1.5	H	-1.81	63.97	122.2	-58.23
5855	65.25	PK	134	1.6	H	-1.82	63.43	110.8	-47.37
5875	65.08	PK	76	1.4	H	-1.84	63.24	105.2	-41.96
5925	63.95	PK	180	1.2	H	-1.82	62.13	68.2	-6.07
5850	65.73	PK	221	1.8	V	-1.81	63.92	122.2	-58.28
5855	64.46	PK	201	1.8	V	-1.82	62.64	110.8	-48.16
5875	65.23	PK	186	1.4	V	-1.84	63.39	105.2	-41.81
5925	63.81	PK	64	2.4	V	-1.82	61.99	68.2	-6.21
11590	54.17	PK	274	1.1	H	6.57	60.74	74	-13.26
11590	39.95	AV	206	1.1	H	6.57	46.52	54	-7.48
11590	54.45	PK	62	1.1	V	6.57	61.02	74	-12.98
11590	39.98	AV	1	1.1	V	6.57	46.55	54	-7.45

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5775MHz									
5650	62.25	PK	234	1.3	H	-1.95	60.30	68.2	-7.90
5700	63.55	PK	341	1.9	H	-2.02	61.53	105.2	-43.67
5720	63.36	PK	199	1.9	H	-1.97	61.39	110.8	-49.41
5725	65.30	PK	229	1.5	H	-1.96	63.34	122.2	-58.86
5650	62.37	PK	307	1.1	V	-1.95	60.42	68.2	-7.78
5700	63.46	PK	169	1.8	V	-2.02	61.44	105.2	-43.76
5720	63.25	PK	354	2.3	V	-1.97	61.28	110.8	-49.52
5725	65.30	PK	148	2.2	V	-1.96	63.34	122.2	-58.86
5850	64.49	PK	195	2	H	-1.81	62.68	122.2	-59.52
5855	65.29	PK	137	1.6	H	-1.82	63.47	110.8	-47.33
5875	63.47	PK	36	1.5	H	-1.84	61.63	105.2	-43.57
5925	62.80	PK	34	2.2	H	-1.82	60.98	68.2	-7.22
5850	65.12	PK	119	1.9	V	-1.81	63.31	122.2	-58.89
5855	64.44	PK	339	1.3	V	-1.82	62.62	110.8	-48.18
5875	63.88	PK	6	1.5	V	-1.84	62.04	105.2	-43.16
5925	62.95	PK	238	2.5	V	-1.82	61.13	68.2	-7.07
11550	54.27	PK	299	1.6	H	6.61	60.88	74	-13.12
11550	40.62	AV	24	1.6	H	6.61	47.23	54	-6.77
11550	54.05	PK	152	2.4	V	6.61	60.66	74	-13.34
11550	40.09	AV	294	2.4	V	6.61	46.70	54	-7.30

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax20									
5745MHz									
5650	62.20	PK	186	2.1	H	-1.95	60.25	68.2	-7.95
5700	63.47	PK	358	1.3	H	-2.02	61.45	105.2	-43.75
5720	67.35	PK	172	1.9	H	-1.97	65.38	110.8	-45.42
5725	75.55	PK	73	1.9	H	-1.96	73.59	122.2	-48.61
5650	62.37	PK	114	1.3	V	-1.95	60.42	68.2	-7.78
5700	63.55	PK	157	2	V	-2.02	61.53	105.2	-43.67
5720	67.29	PK	115	1.3	V	-1.97	65.32	110.8	-45.48
5725	76.17	PK	355	1.5	V	-1.96	74.21	122.2	-47.99
11490	54.03	PK	316	2.3	H	6.63	60.66	74	-13.34
11490	40.25	AV	243	2.3	H	6.63	46.88	54	-7.12
11490	53.92	PK	313	1.9	V	6.63	60.55	74	-13.45
11490	40.33	AV	236	1.9	V	6.63	46.96	54	-7.04
5785MHz									
11570	53.80	PK	29	2.3	H	6.59	60.39	74	-13.61
11570	39.83	AV	131	2.3	H	6.59	46.42	54	-7.58
11570	53.72	PK	335	2	V	6.59	60.31	74	-13.69
11570	39.89	AV	24	2	V	6.59	46.48	54	-7.52
5825MHz									
5850	71.38	PK	232	1.6	H	-1.81	69.57	122.2	-52.63
5855	67.68	PK	246	1.7	H	-1.82	65.86	110.8	-44.94
5875	63.84	PK	202	2.1	H	-1.84	62.00	105.2	-43.20
5925	62.65	PK	48	2.3	H	-1.82	60.83	68.2	-7.37
5850	71.42	PK	166	1.4	V	-1.81	69.61	122.2	-52.59
5855	67.94	PK	18	1	V	-1.82	66.12	110.8	-44.68
5875	63.54	PK	332	1.1	V	-1.84	61.70	105.2	-43.50
5925	62.79	PK	324	1.3	V	-1.82	60.97	68.2	-7.23
11650	53.95	PK	194	1.3	H	6.77	60.72	74	-13.28
11650	39.86	AV	308	1.3	H	6.77	46.63	54	-7.37
11650	53.50	PK	200	1.4	V	6.77	60.27	74	-13.73
11650	39.65	AV	236	1.4	V	6.77	46.42	54	-7.58

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40									
5755MHz									
5650	62.28	PK	35	2	H	-1.95	60.33	68.2	-7.87
5700	63.35	PK	205	1.3	H	-2.02	61.33	105.2	-43.87
5720	68.58	PK	288	1.9	H	-1.97	66.61	110.8	-44.19
5725	69.21	PK	178	2.1	H	-1.96	67.25	122.2	-54.95
5650	62.50	PK	161	2	V	-1.95	60.55	68.2	-7.65
5700	63.55	PK	297	1.8	V	-2.02	61.53	105.2	-43.67
5720	67.14	PK	7	2.4	V	-1.97	65.17	110.8	-45.63
5725	69.75	PK	63	1.8	V	-1.96	67.79	122.2	-54.41
11510	53.55	PK	294	2	H	6.59	60.14	74	-13.86
11510	40.23	AV	170	2	H	6.59	46.82	54	-7.18
11510	53.70	PK	286	2.2	V	6.59	60.29	74	-13.71
11510	40.03	AV	261	2.2	V	6.59	46.62	54	-7.38
5795MHz									
5850	65.85	PK	133	1.3	H	-1.81	64.04	122.2	-58.16
5855	65.01	PK	68	1.1	H	-1.82	63.19	110.8	-47.61
5875	64.61	PK	168	1.6	H	-1.84	62.77	105.2	-42.43
5925	63.86	PK	99	1.4	H	-1.82	62.04	68.2	-6.16
5850	65.86	PK	332	2.3	V	-1.81	64.05	122.2	-58.15
5855	64.69	PK	244	1.5	V	-1.82	62.87	110.8	-47.93
5875	65.12	PK	280	1.8	V	-1.84	63.28	105.2	-41.92
5925	63.65	PK	21	2.3	V	-1.82	61.83	68.2	-6.37
11590	53.76	PK	36	1.7	H	6.57	60.33	74	-13.67
11590	40.60	AV	357	1.7	H	6.57	47.17	54	-6.83
11590	54.43	PK	39	1.3	V	6.57	61.00	74	-13.00
11590	40.38	AV	358	1.3	V	6.57	46.95	54	-7.05

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80									
5775MHz									
5650	62.56	PK	99	1.5	H	-1.95	60.61	68.2	-7.59
5700	63.44	PK	104	2.1	H	-2.02	61.42	105.2	-43.78
5720	63.58	PK	20	2.1	H	-1.97	61.61	110.8	-49.19
5725	65.72	PK	207	2	H	-1.96	63.76	122.2	-58.44
5650	62.18	PK	49	1.9	V	-1.95	60.23	68.2	-7.97
5700	63.28	PK	86	1.3	V	-2.02	61.26	105.2	-43.94
5720	63.23	PK	307	1.8	V	-1.97	61.26	110.8	-49.54
5725	64.51	PK	28	1.7	V	-1.96	62.55	122.2	-59.65
5850	65.17	PK	212	1.9	H	-1.81	63.36	122.2	-58.84
5855	65.10	PK	124	1.3	H	-1.82	63.28	110.8	-47.52
5875	63.71	PK	334	2.1	H	-1.84	61.87	105.2	-43.33
5925	62.76	PK	134	1.6	H	-1.82	60.94	68.2	-7.26
5850	65.06	PK	69	1.8	V	-1.81	63.25	122.2	-58.95
5855	64.60	PK	92	1.1	V	-1.82	62.78	110.8	-48.02
5875	63.70	PK	112	2.4	V	-1.84	61.86	105.2	-43.34
5925	62.76	PK	38	2.2	V	-1.82	60.94	68.2	-7.26
11550	53.76	PK	36	1.2	H	6.61	60.37	74	-13.63
11550	40.32	AV	219	1.2	H	6.61	46.93	54	-7.07
11550	53.95	PK	328	2.1	V	6.61	60.56	74	-13.44
11550	40.43	AV	19	2.1	V	6.61	47.04	54	-6.96

Note:

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

Corrected Amplitude = Factor + Reading

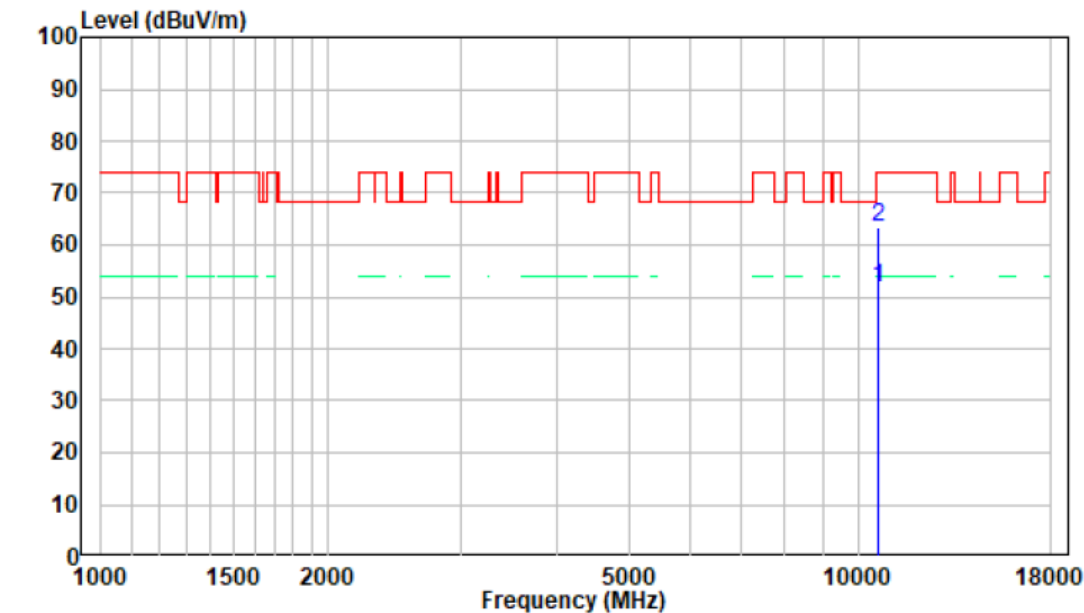
Margin = Corrected. Amplitude - Limit

The other spurious emission which is in the noise floor level was not recorded.

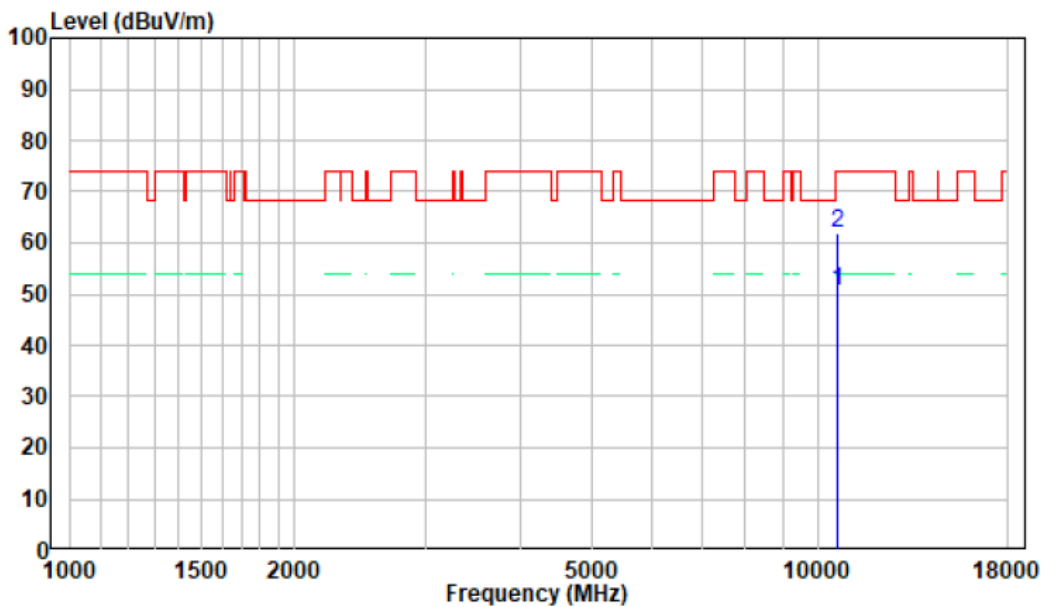
1 GHz - 18 GHz: (Pre-Scan plots)

802.11ac20, 5320MHz

Horizontal



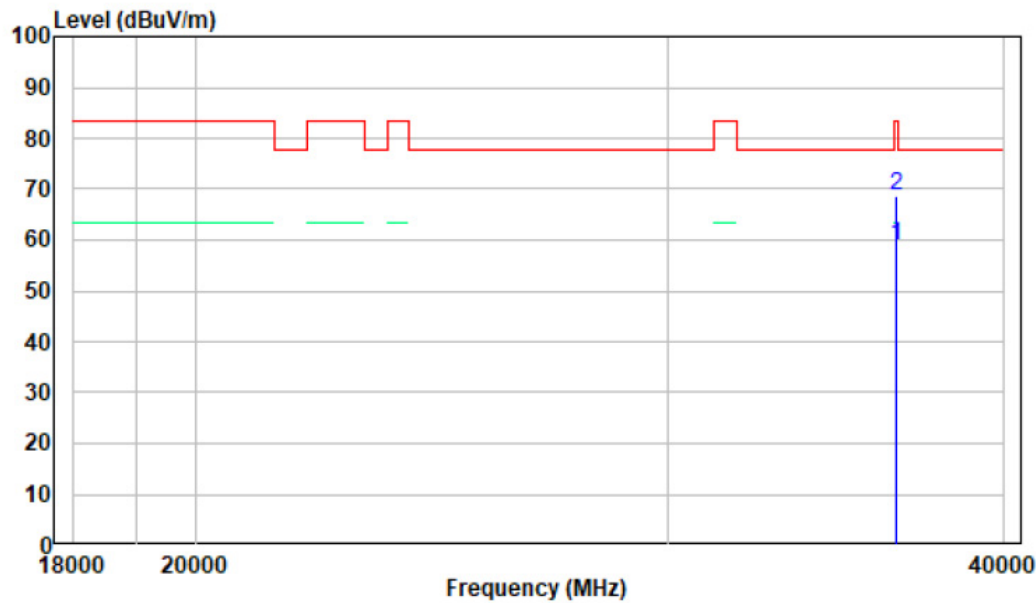
Vertical



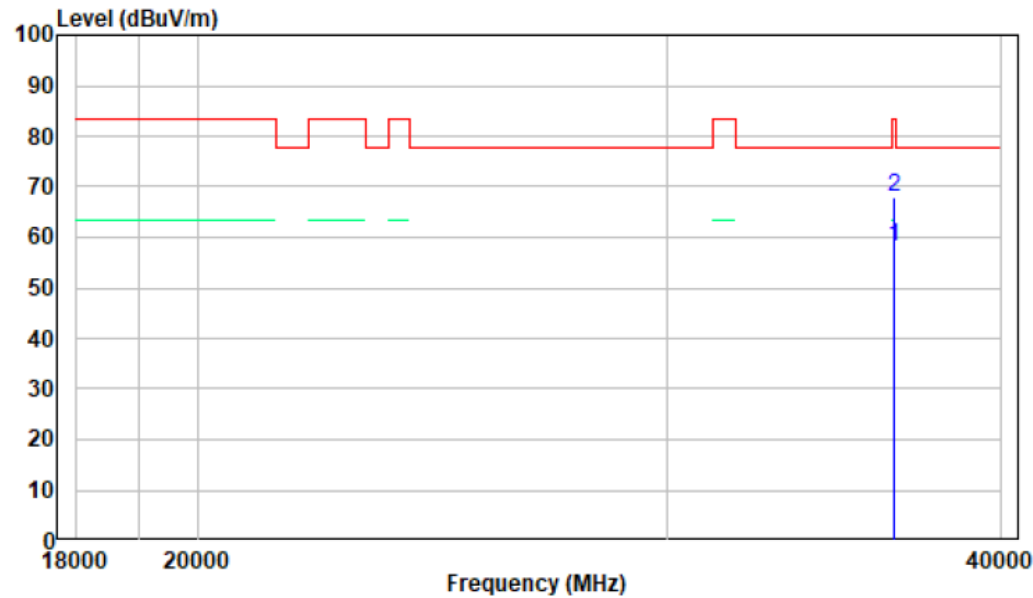
18-40GHz: (Pre-Scan plots)

802.11ac20, 5320MHz

Horizontal



Vertical



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

Applicable Standard

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.

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

According to KDB789033 D02 section II.C. and section II.D.

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) 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%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) 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.

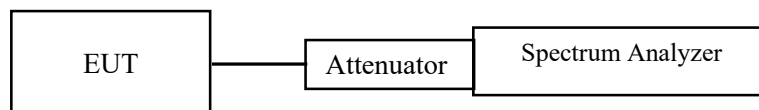
3. 99% Occupied Bandwidth

The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is required only as a condition for using the optional bandedge measurement techniques described in II.G.3.d). Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with Section 15.407(a).

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 ≥ 3 RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Note: For devices that use channel aggregation refer to III.A and III.C for determining 99% bandwidth.



Test Data

Environmental Conditions

Temperature:	27°C
Relative Humidity:	29%
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling from 2023-03-03 to 2023-03-06.

EUT operation mode: Transmitting

Test Result: Pass

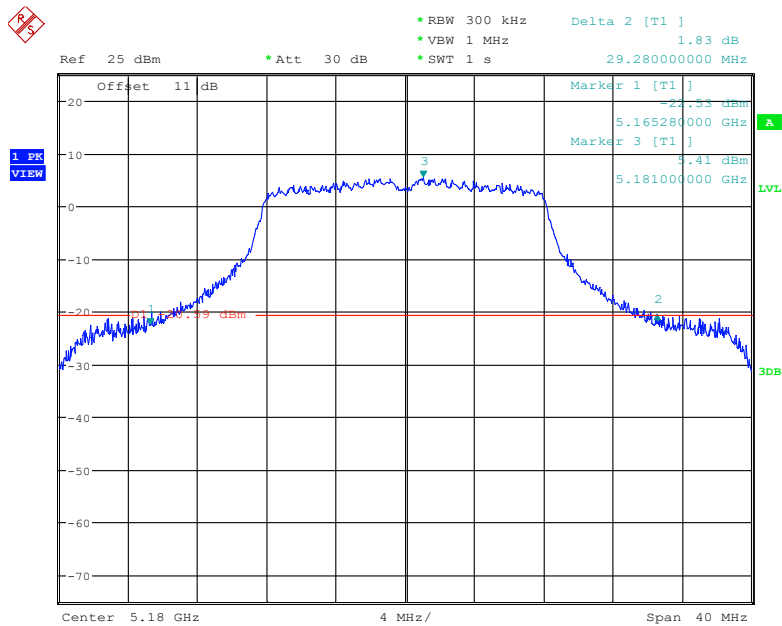
Test Result: Pass *Please refer to the test data and plots as follows:*

5150 MHz - 5250 MHz:

Frequency (MHz)	Antenna Port	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Remark
802.11a				No transmitted signal in the 99% bandwidth extends into the U-NII-2A band
5180	Ant1	29.28	18.16	
5200	Ant1	29.40	18.00	
5240	Ant1	20.52	16.88	
802.11n20				
5180	Ant1	33.12	19.20	
5200	Ant1	33.28	19.08	
5240	Ant1	20.76	17.84	
802.11n40				
5190	Ant1	41.04	36.08	
5230	Ant1	40.72	36.08	
802.11ac20				
5180	Ant1	32.36	19.04	
5200	Ant1	31.12	19.16	
5240	Ant1	20.72	17.80	
802.11ac40				
5190	Ant1	40.88	35.92	
5230	Ant1	40.80	36.00	
11ac80				
5210	Ant1	80.16	75.36	
802.11ax20				
5180	Ant1	33.28	19.36	
5200	Ant1	32.12	19.36	
5240	Ant1	20.20	18.84	
802.11ax40				
5190	Ant1	40.80	36.08	
5230	Ant1	40.96	36.08	
11ax80				
5210	Ant1	80.96	76.80	

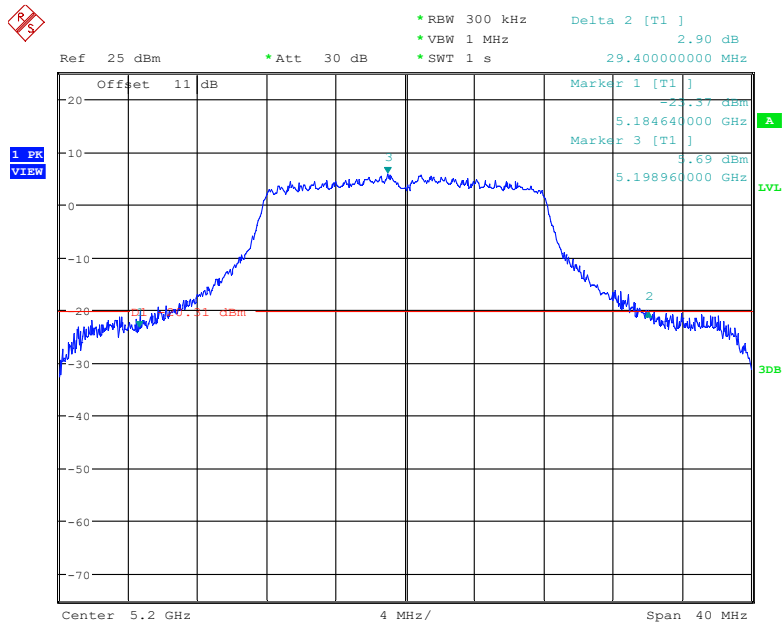
26 dB Emissions :

802.11a mode, 5180 MHz

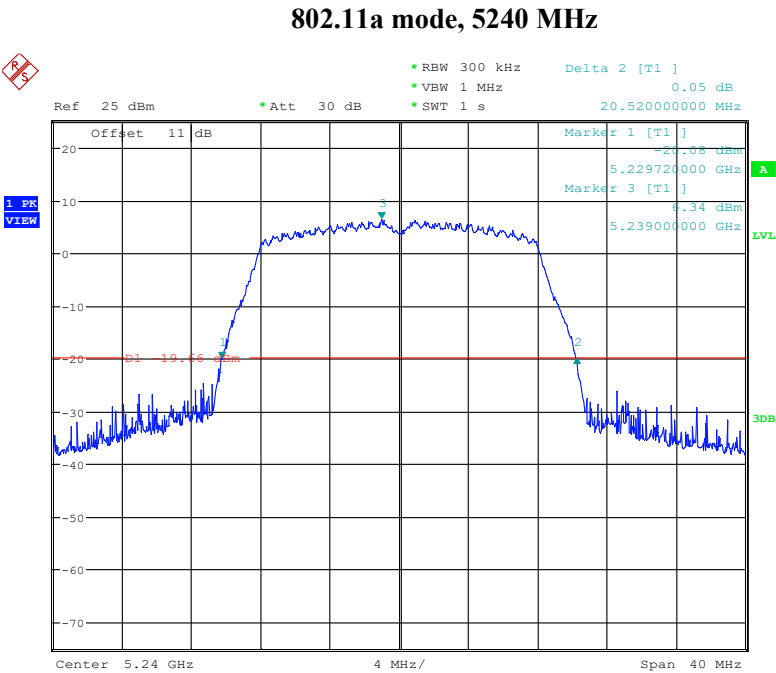


Date: 3.MAR.2023 19:52:45

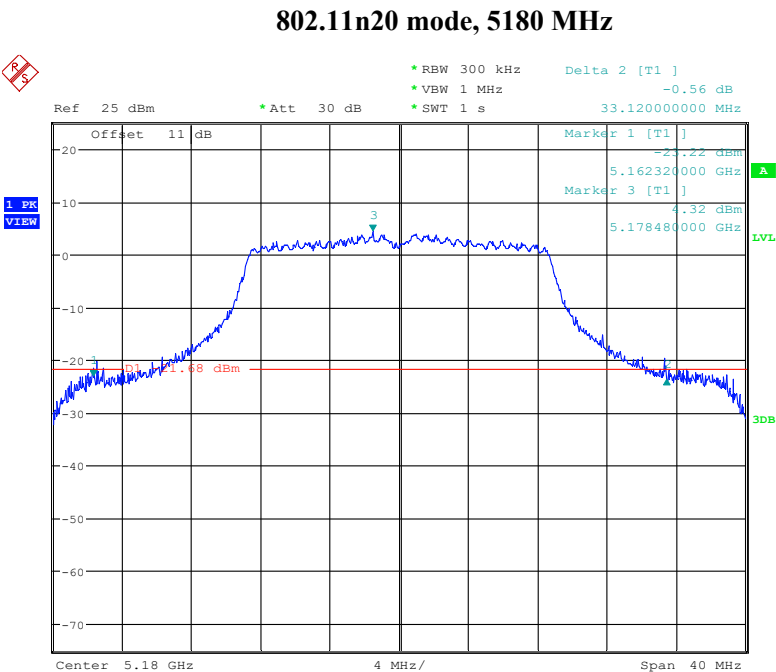
802.11a mode, 5200 MHz



Date: 3.MAR.2023 19:57:31

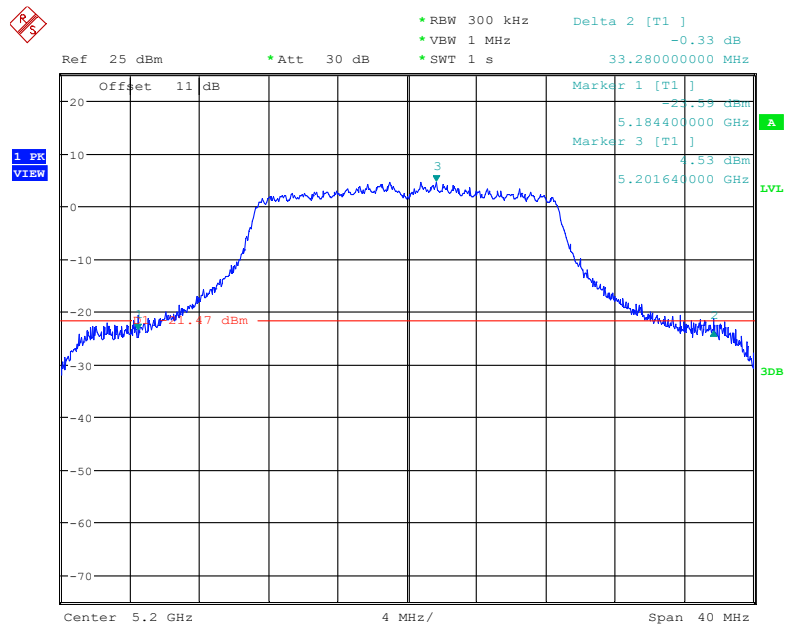


Date: 3.MAR.2023 20:16:28



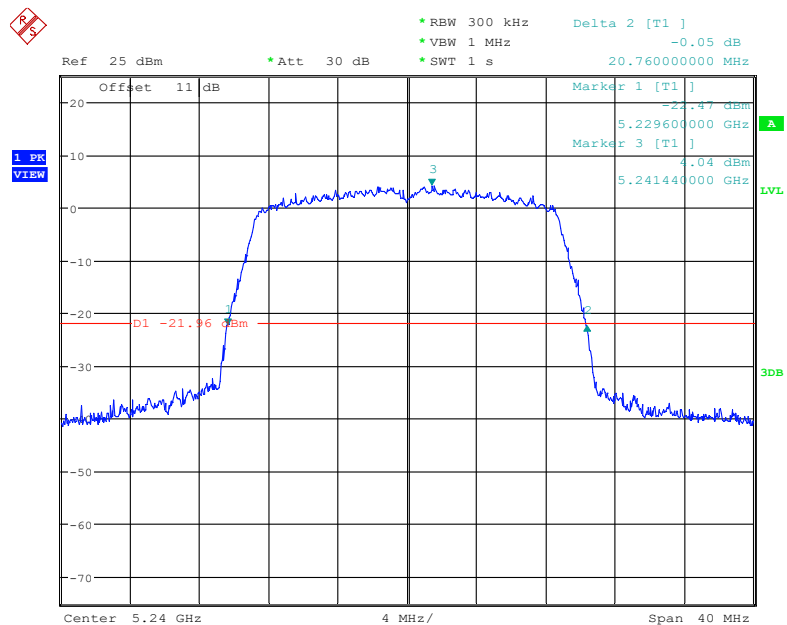
Date: 3.MAR.2023 20:31:58

802.11n20 mode, 5200 MHz



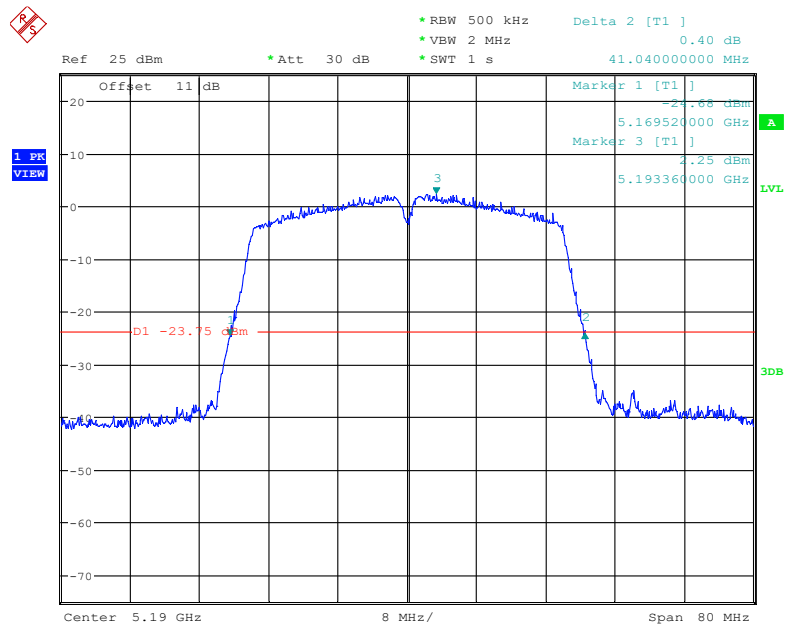
Date: 3.MAR.2023 20:35:29

802.11n20 mode, 5240 MHz



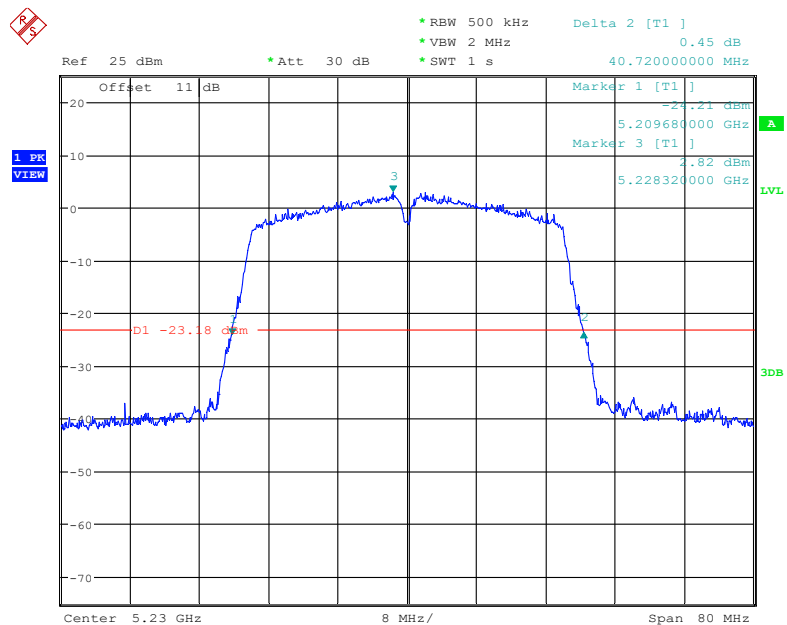
Date: 3.MAR.2023 20:39:19

802.11n40 mode, 5190 MHz



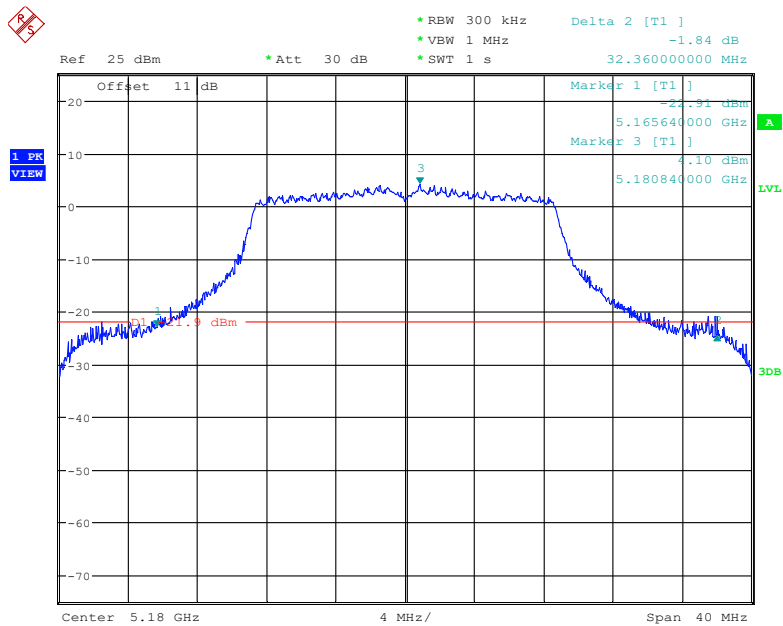
Date: 3.MAR.2023 21:00:20

802.11n40 mode, 5230 MHz



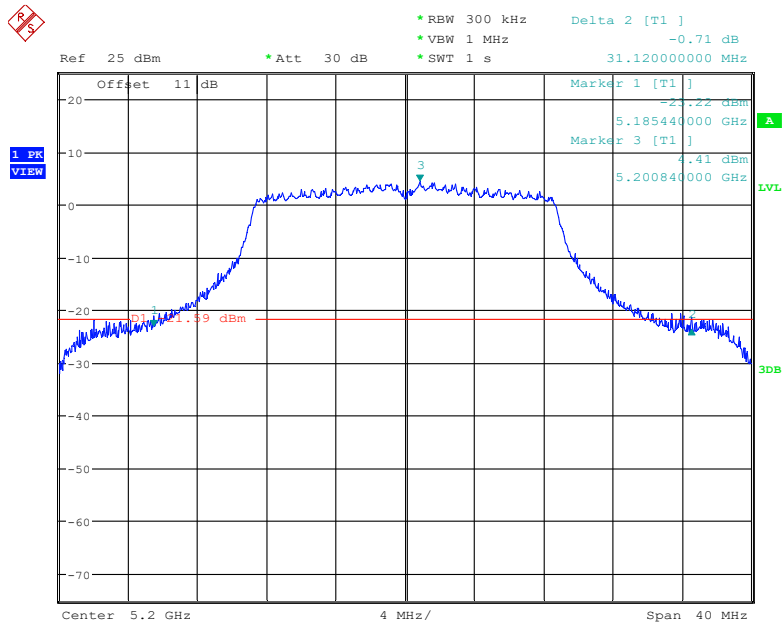
Date: 3.MAR.2023 21:02:40

802.11ac20 mode, 5180 MHz



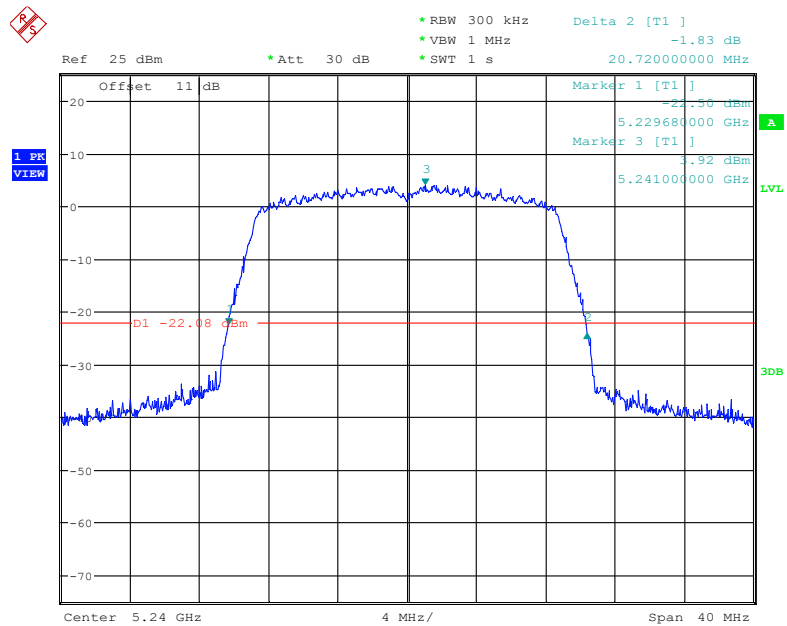
Date: 3.MAR.2023 20:20:55

802.11ac20 mode, 5200 MHz



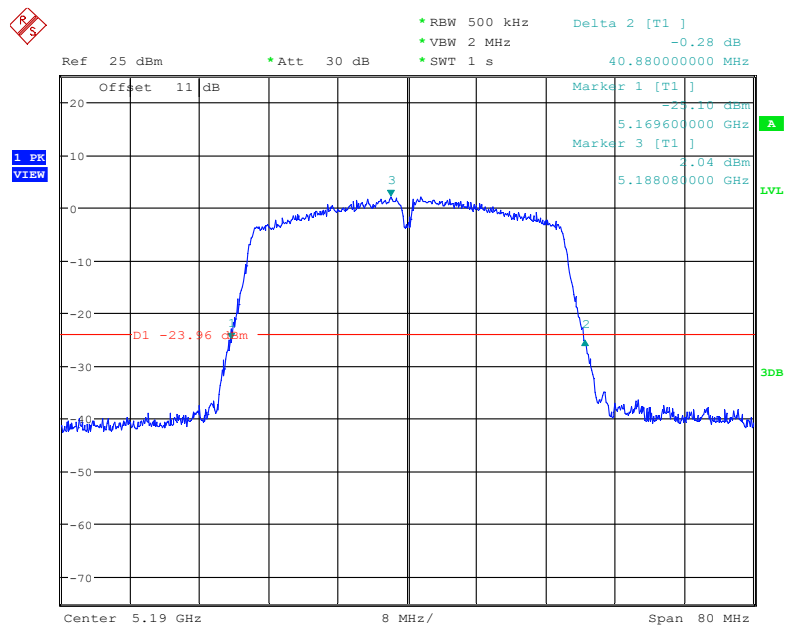
Date: 3.MAR.2023 20:24:39

802.11ac20 mode, 5240 MHz



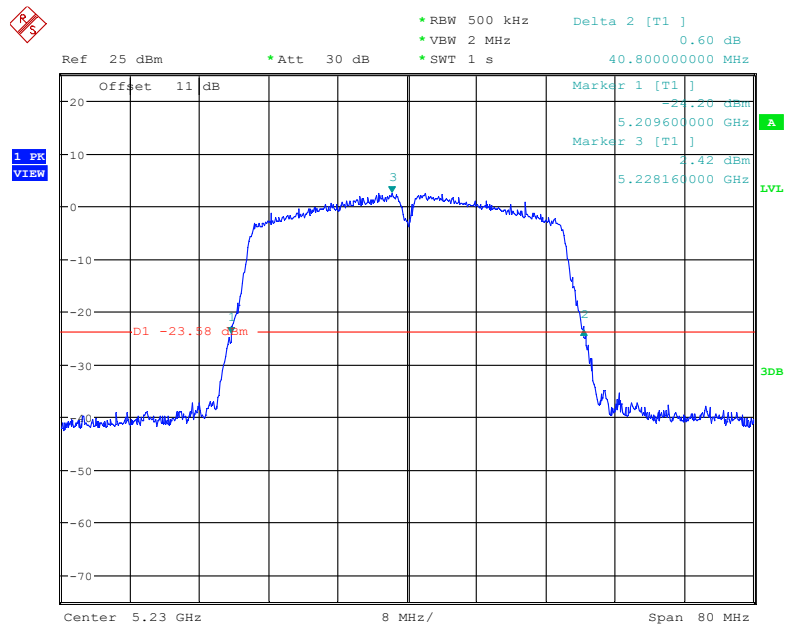
Date: 3.MAR.2023 20:27:54

802.11ac40 mode, 5190 MHz



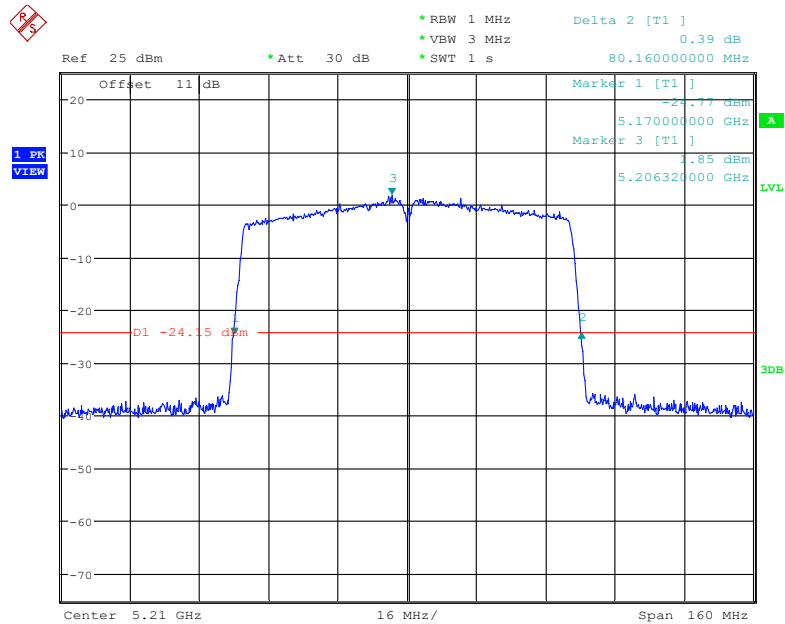
Date: 3.MAR.2023 20:55:09

802.11ac40 mode, 5230 MHz



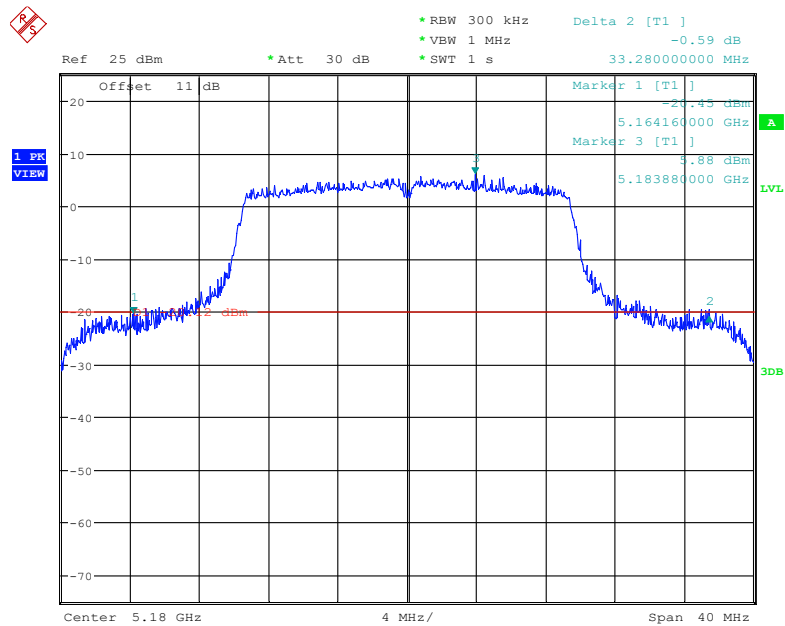
Date: 3.MAR.2023 20:57:28

802.11ac80 mode, 5210 MHz



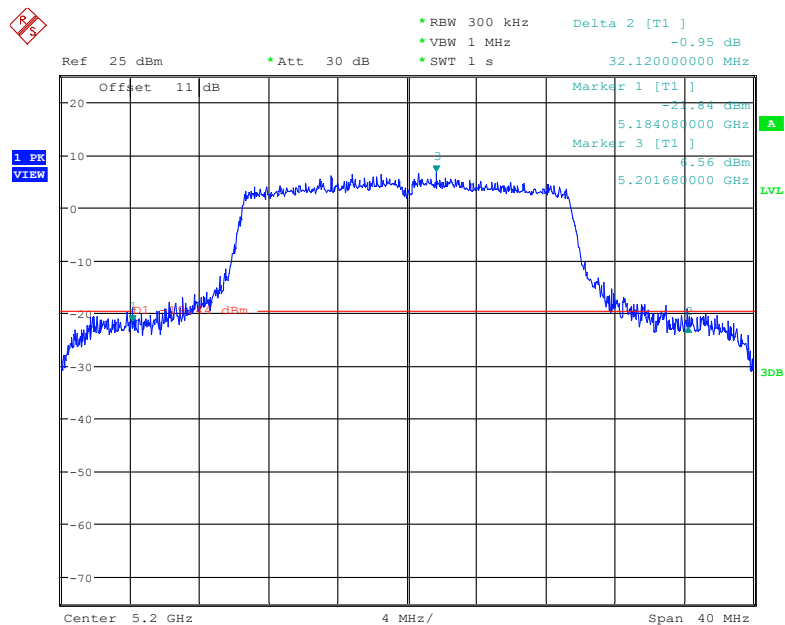
Date: 3.MAR.2023 21:13:21

802.11ax20 mode, 5180 MHz



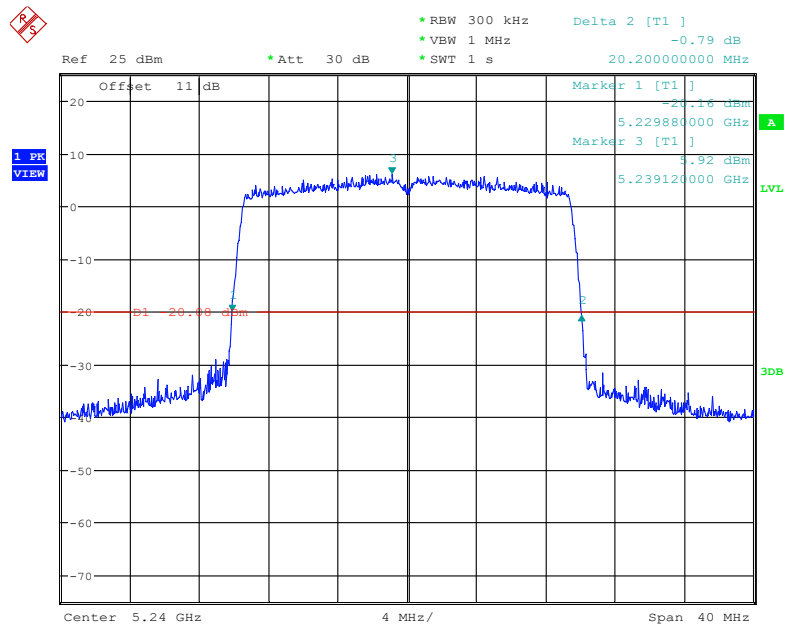
Date: 3.MAR.2023 20:43:28

802.11ax20 mode, 5200 MHz



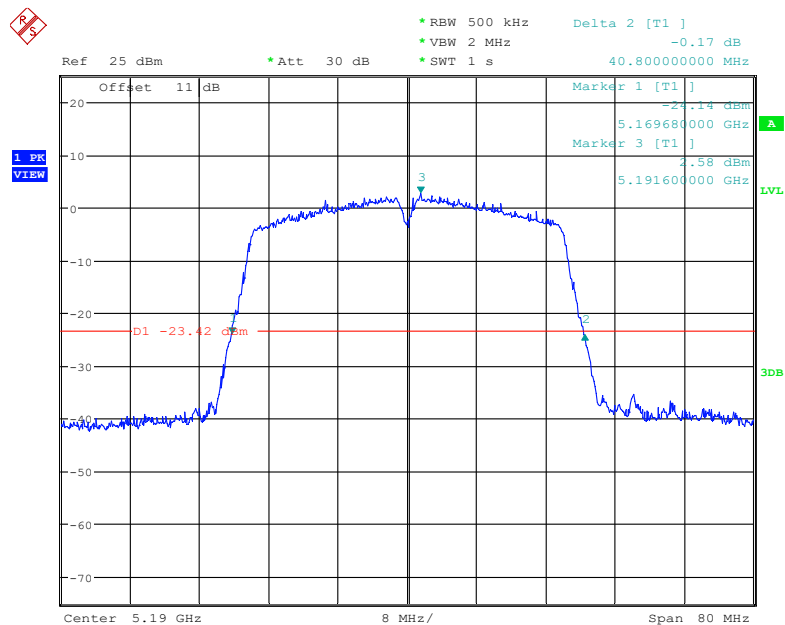
Date: 3.MAR.2023 20:47:30

802.11ax20 mode, 5240 MHz



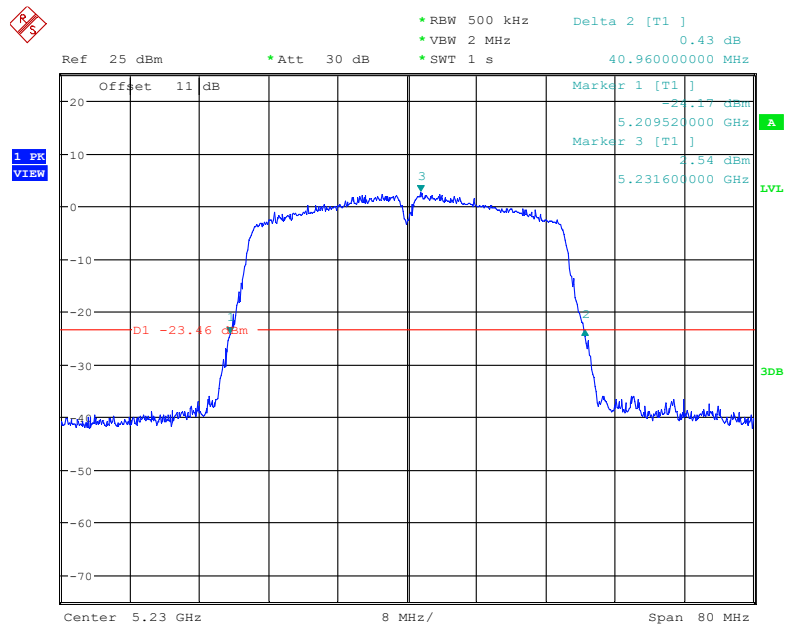
Date: 3.MAR.2023 20:52:04

802.11ax40 mode, 5190 MHz



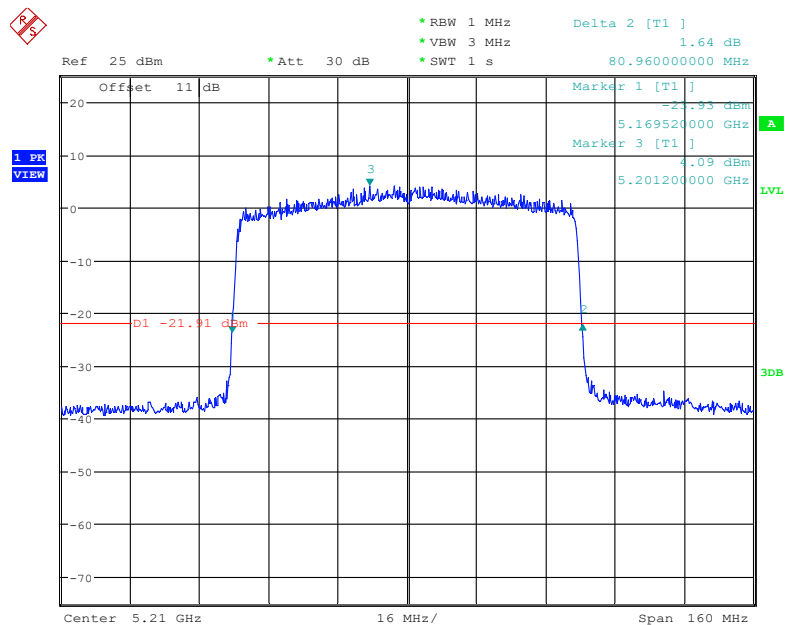
Date: 3.MAR.2023 21:06:07

802.11ax40 mode, 5230 MHz



Date: 3.MAR.2023 21:08:22

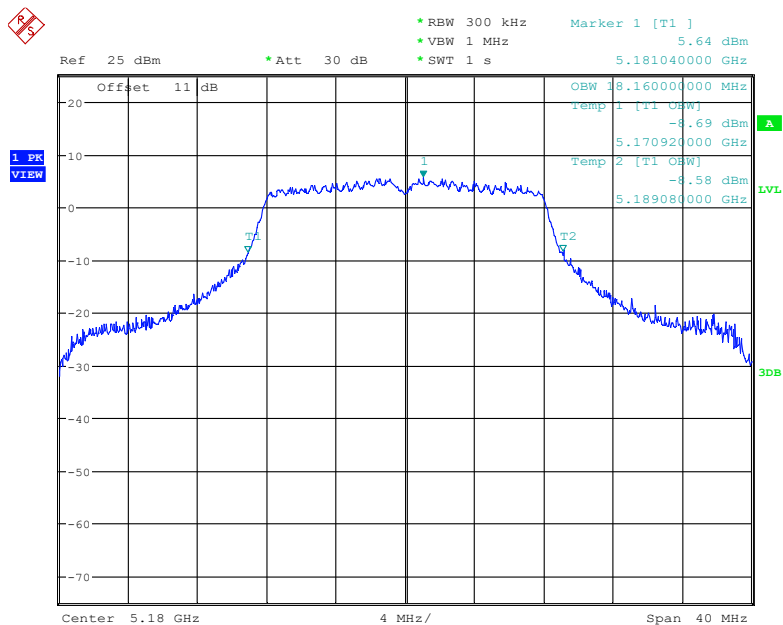
802.11ax80 mode, 5210 MHz



Date: 3.MAR.2023 21:16:27

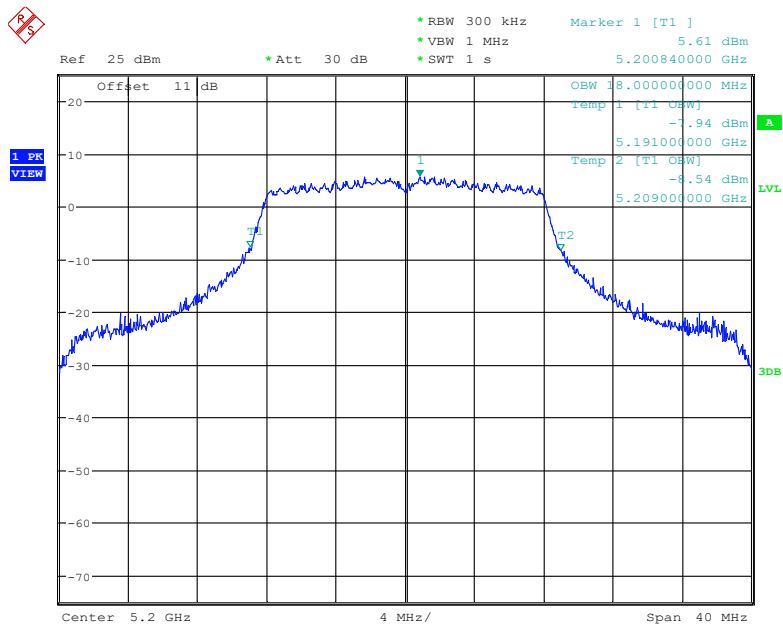
99% Bandwidth:

802.11a mode, 5180 MHz



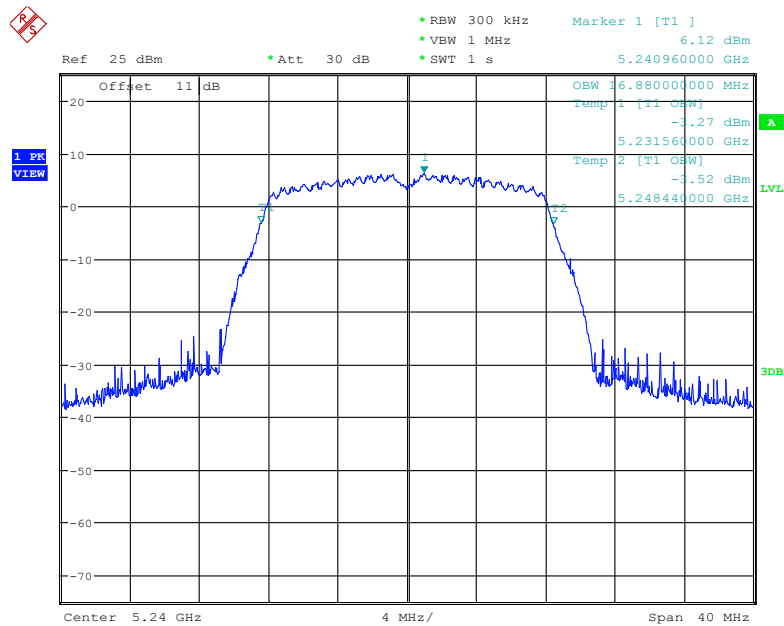
Date: 3.MAR.2023 19:52:10

802.11a mode, 5200 MHz



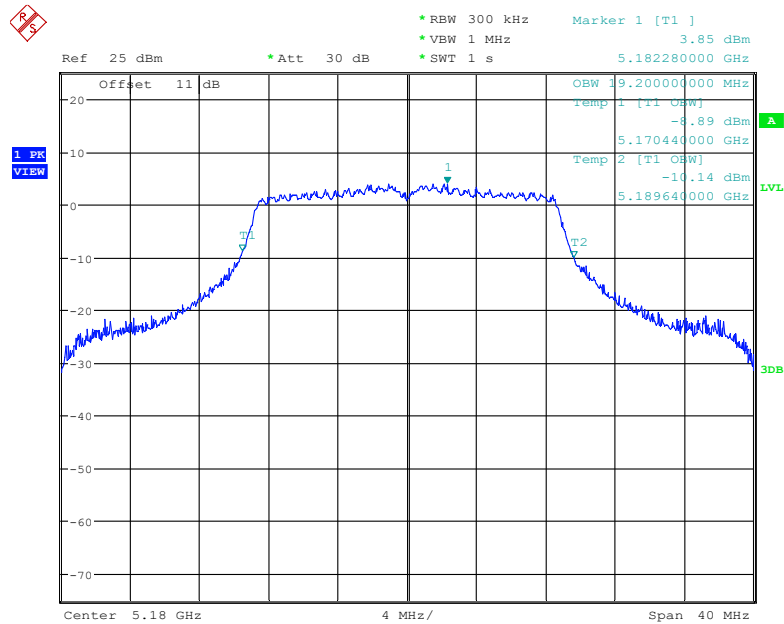
Date: 3.MAR.2023 19:56:57

802.11a mode, 5240 MHz



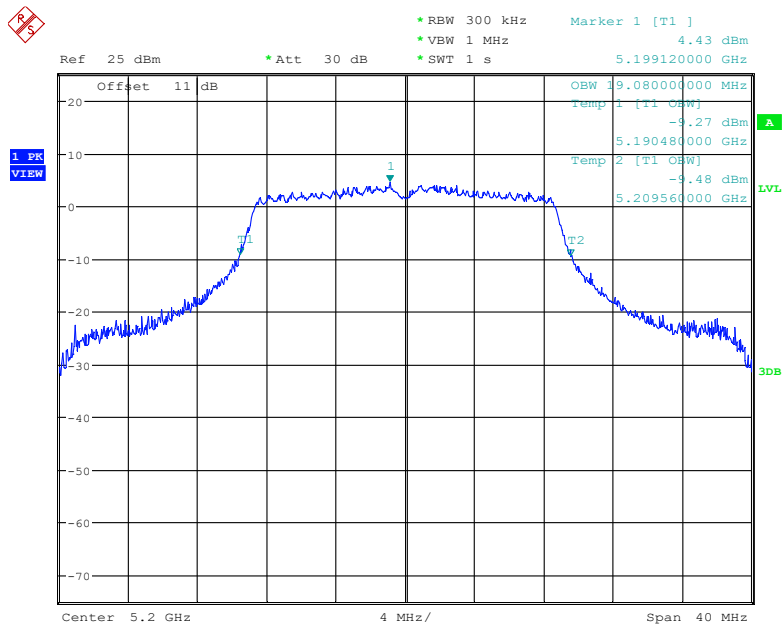
Date: 3.MAR.2023 20:13:14

802.11n20 mode, 5180 MHz



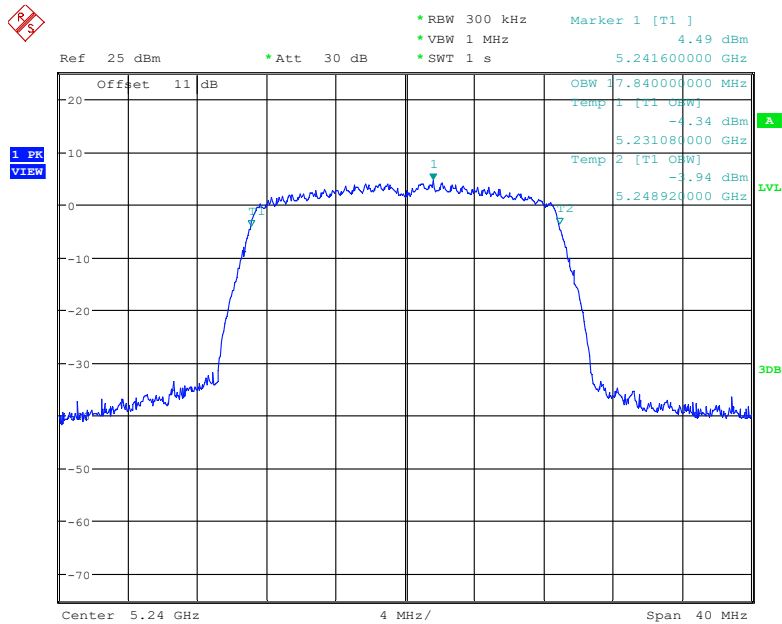
Date: 3.MAR.2023 20:30:48

802.11n20 mode, 5200 MHz



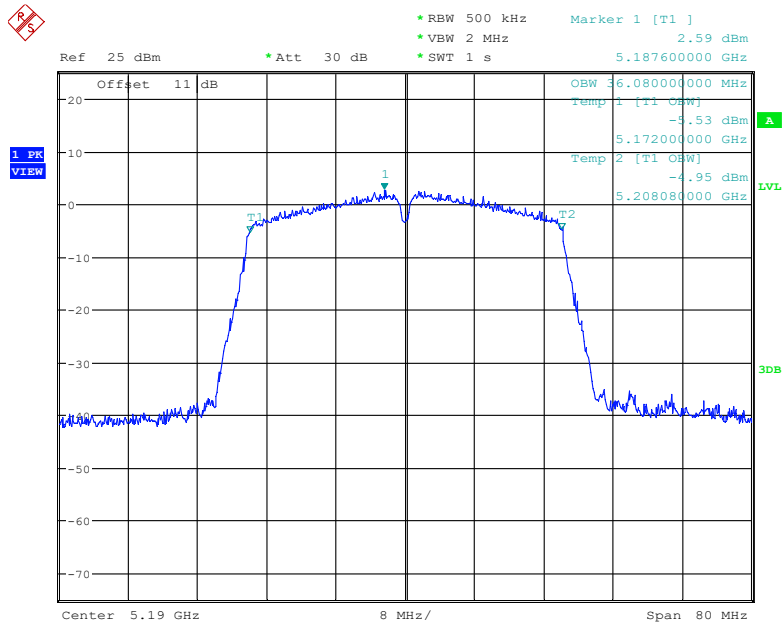
Date: 3.MAR.2023 20:34:19

802.11n20 mode, 5240 MHz



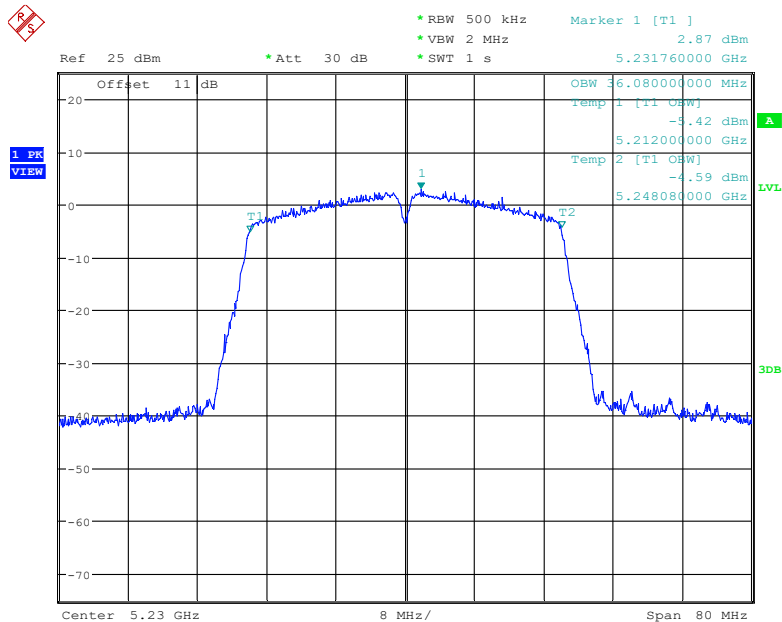
Date: 3.MAR.2023 20:38:44

802.11n40 mode, 5190 MHz



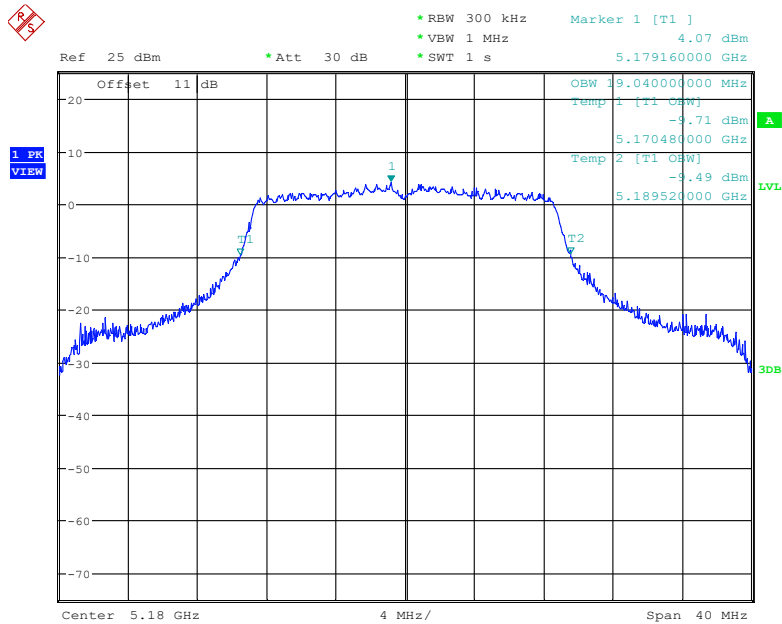
Date: 3.MAR.2023 20:59:58

802.11n40 mode, 5230 MHz



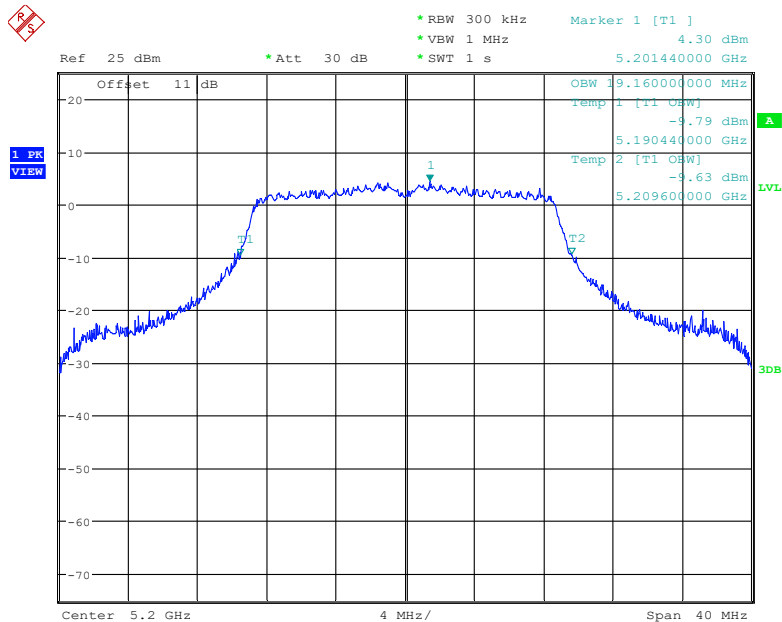
Date: 3.MAR.2023 21:02:18

802.11ac20 mode, 5180 MHz



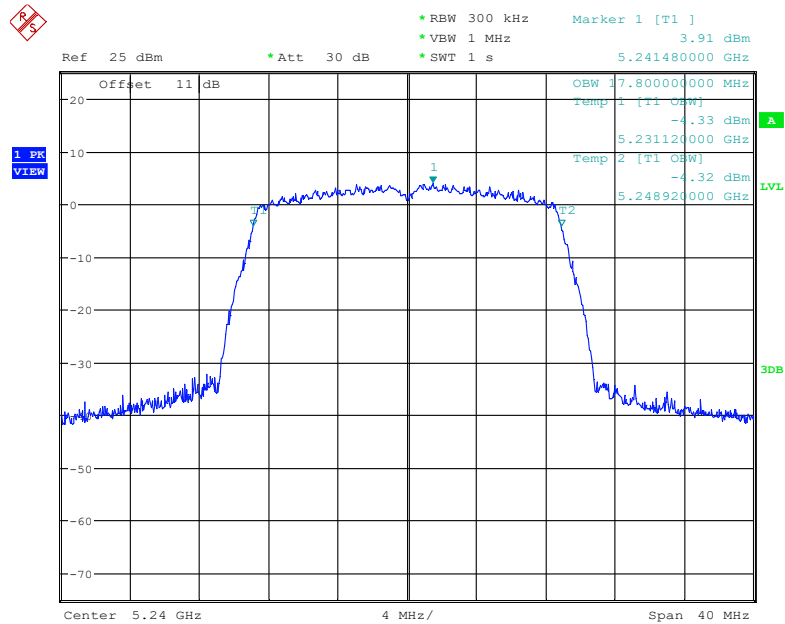
Date: 3.MAR.2023 20:19:56

802.11ac20 mode, 5200 MHz



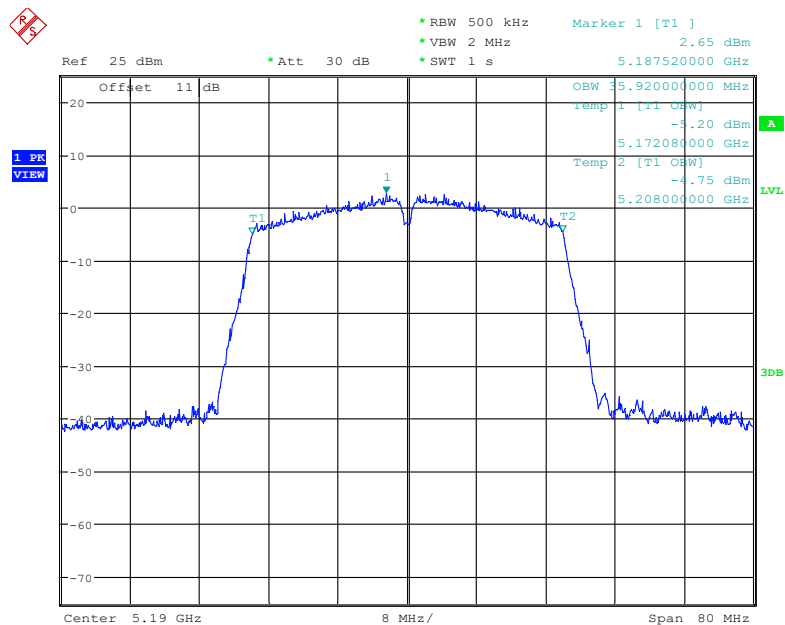
Date: 3.MAR.2023 20:23:29

802.11ac20 mode, 5240 MHz



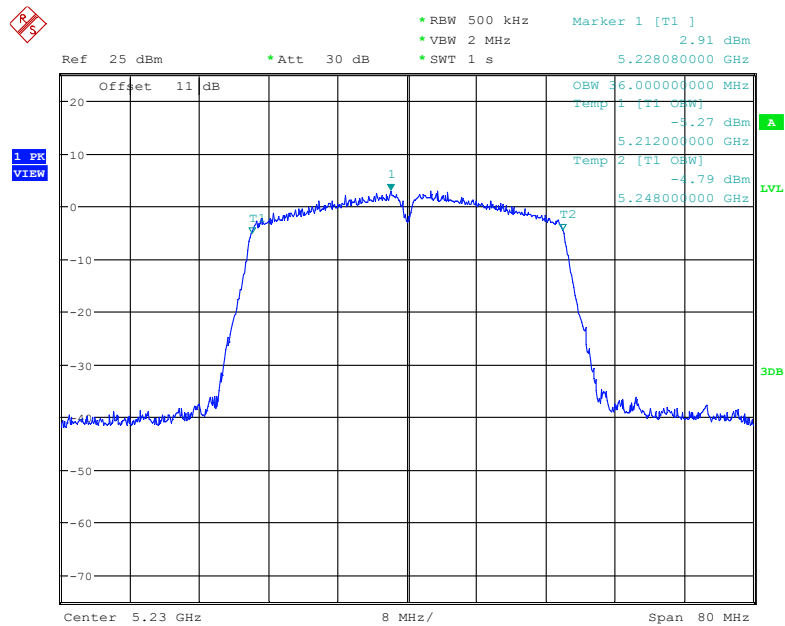
Date: 3.MAR.2023 20:27:19

802.11ac40 mode, 5190 MHz



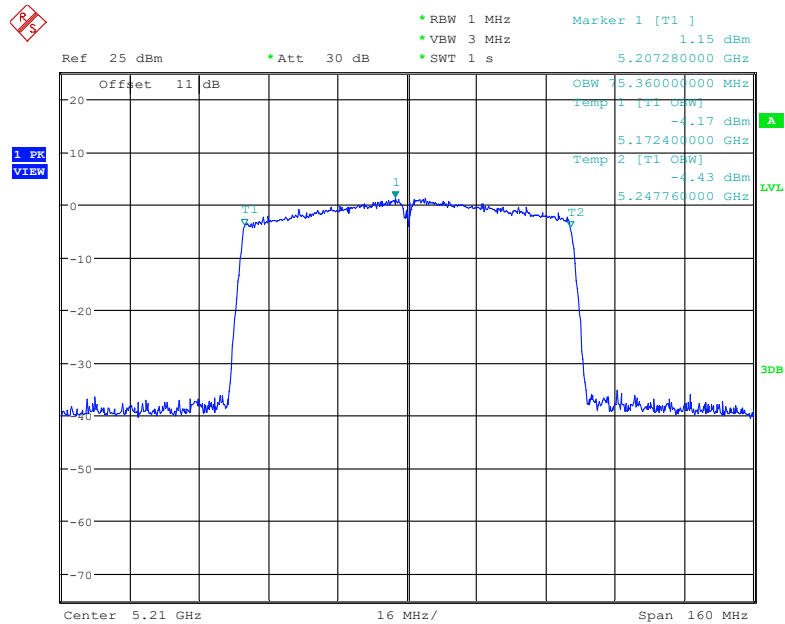
Date: 3.MAR.2023 20:54:48

802.11ac40 mode, 5230 MHz



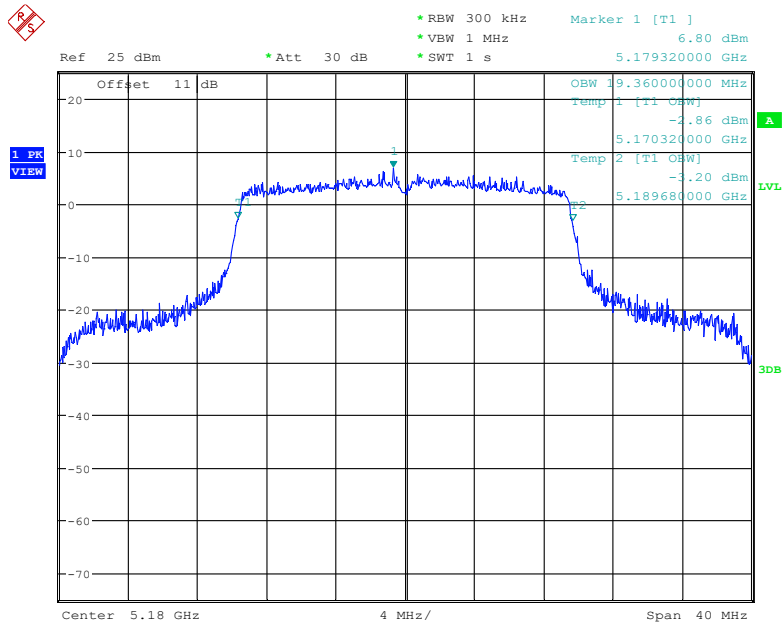
Date: 3.MAR.2023 20:57:07

802.11ac80 mode, 5210 MHz



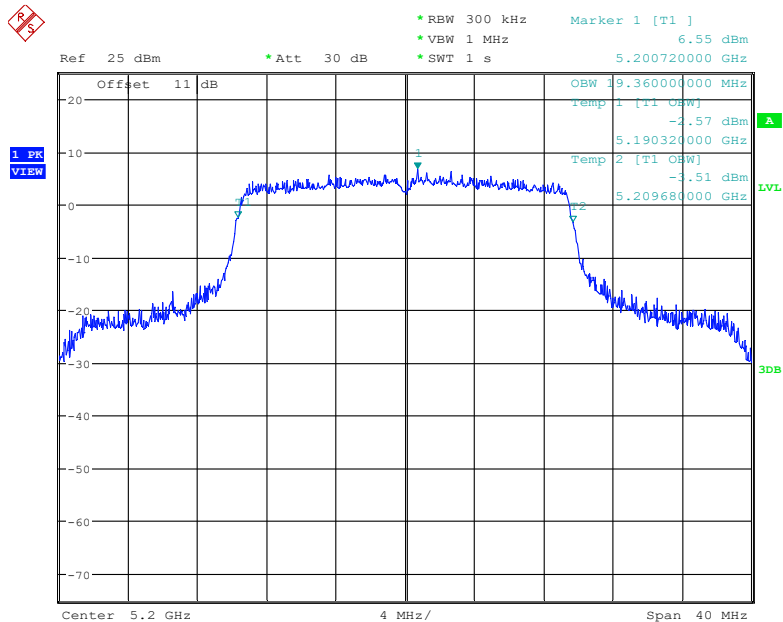
Date: 3.MAR.2023 21:12:59

802.11ax20 mode, 5180 MHz



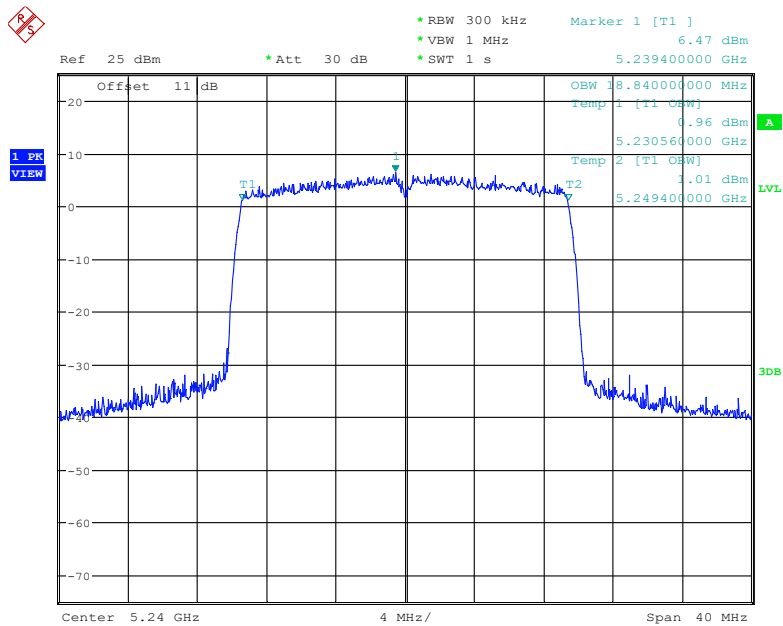
Date: 3.MAR.2023 20:42:30

802.11ax20 mode, 5200 MHz



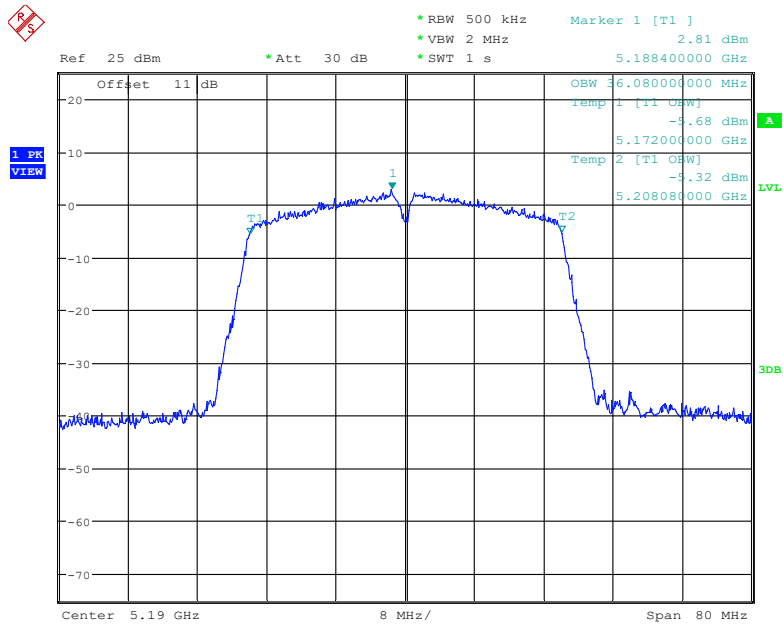
Date: 3.MAR.2023 20:46:32

802.11ax20 mode, 5240 MHz



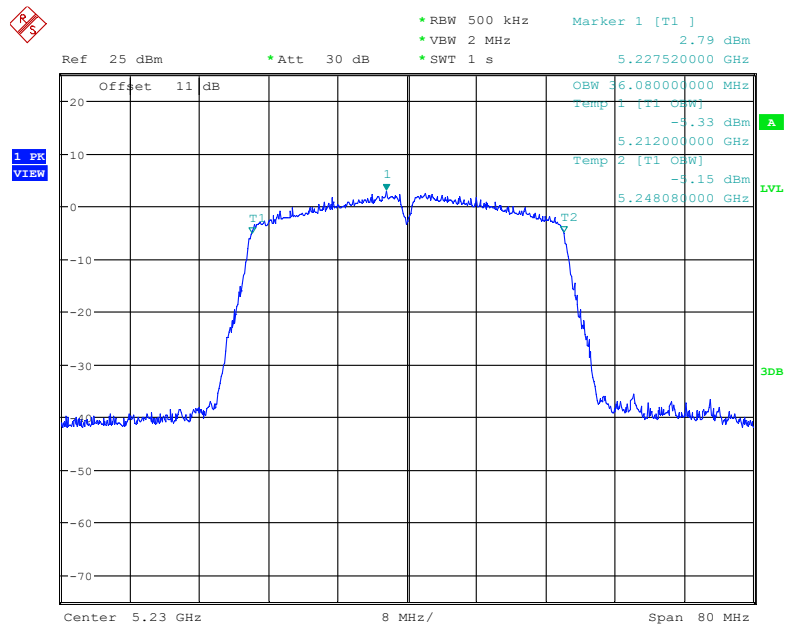
Date: 3.MAR.2023 20:51:06

802.11ax40 mode, 5190 MHz



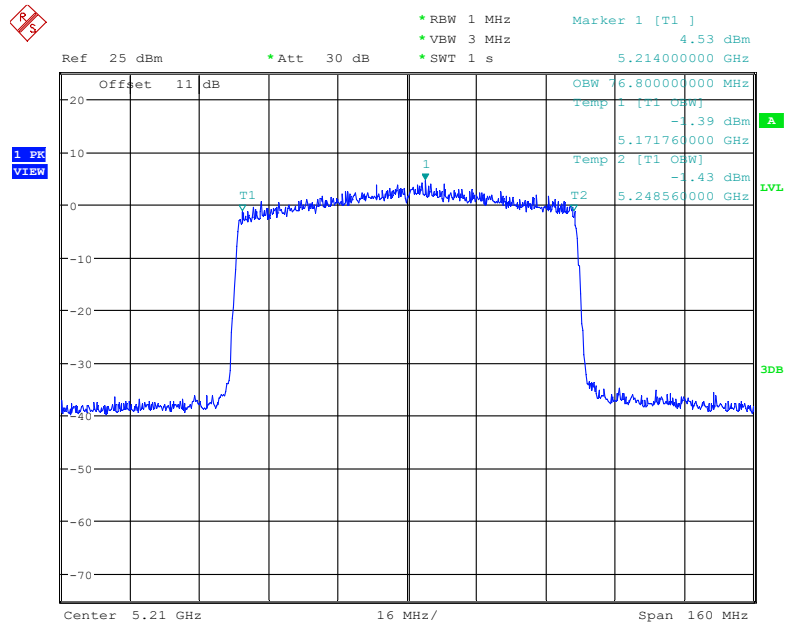
Date: 3.MAR.2023 21:05:45

802.11ax40 mode, 5230 MHz



Date: 3.MAR.2023 21:08:01

802.11ax80 mode, 5210 MHz



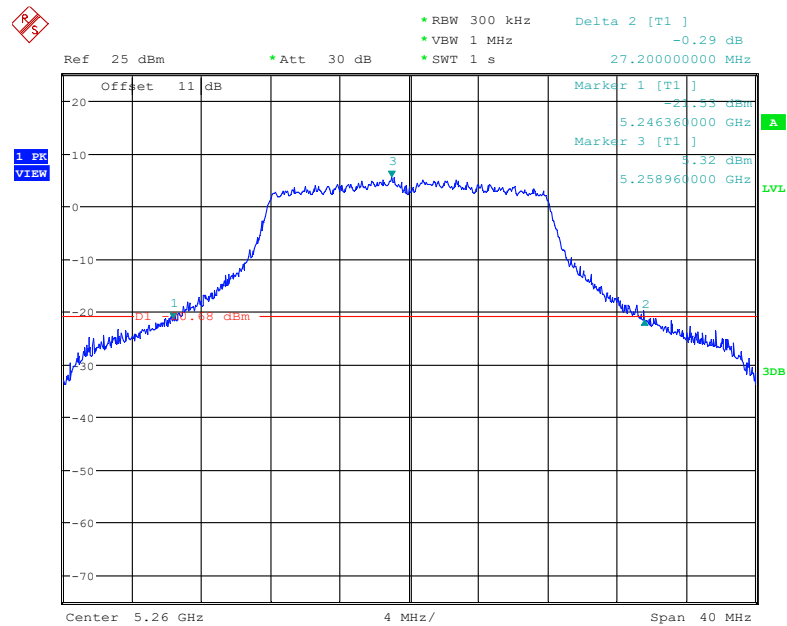
Date: 3.MAR.2023 21:15:53

5250 MHz - 5350 MHz:

Frequency (MHz)	Antenna Port	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
802.11a			
5260	Ant1	27.20	18.00
5280	Ant1	28.40	18.08
5320	Ant1	28.04	18.08
802.11n20			
5260	Ant1	29.40	19.12
5280	Ant1	29.32	19.08
5320	Ant1	34.00	19.20
802.11n40			
5270	Ant1	40.88	36.00
5310	Ant1	40.64	36.00
802.11ac20			
5260	Ant1	28.52	19.00
5280	Ant1	30.64	19.16
5320	Ant1	30.72	19.20
802.11ac40			
5270	Ant1	40.96	36.00
5310	Ant1	40.56	36.00
802.11ac80			
5290	Ant1	80.64	75.20
802.11ax20			
5260	Ant1	37.16	19.44
5280	Ant1	36.72	19.44
5320	Ant1	32.56	19.36
802.11ax40			
5270	Ant1	40.00	37.52
5310	Ant1	39.92	37.52
802.11ax80			
5290	Ant1	80.96	76.80

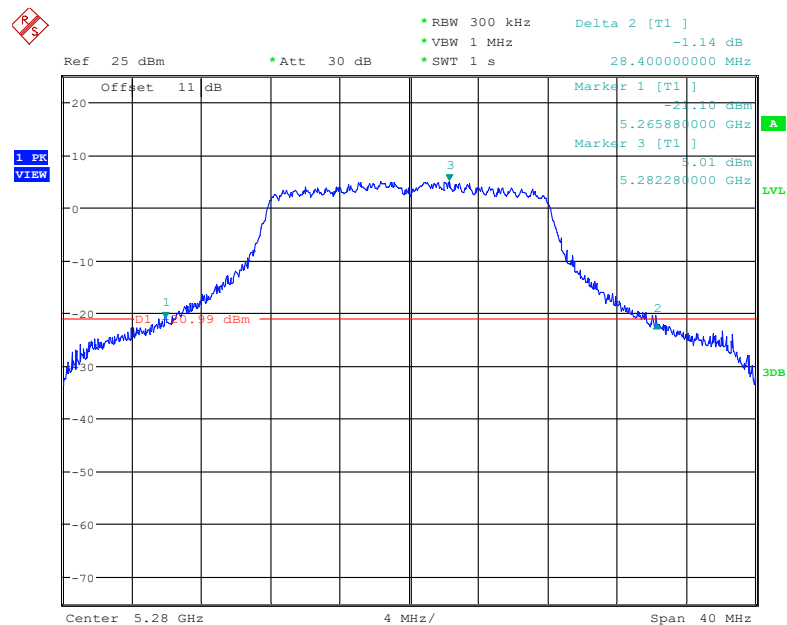
6dB Emission Bandwidth:

802.11a mode, 5260 MHz



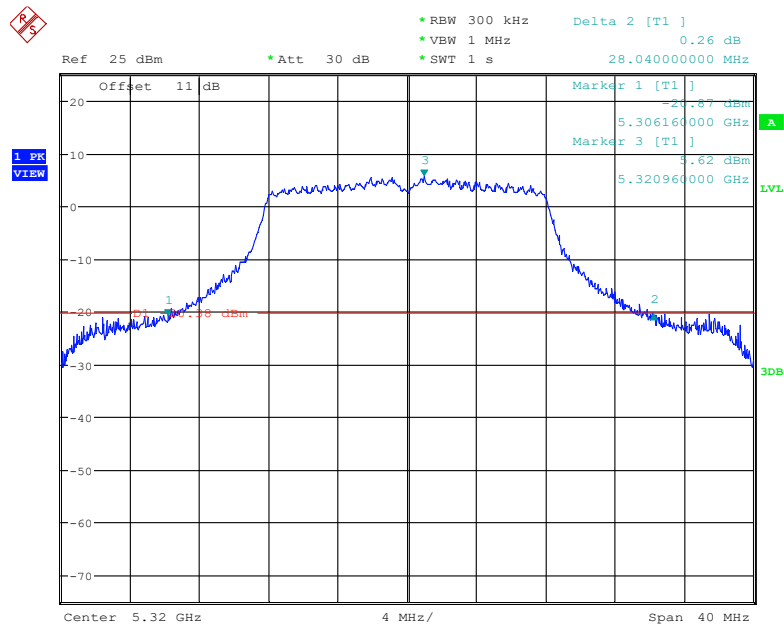
Date: 3.MAR.2023 21:55:57

802.11a mode, 5280 MHz



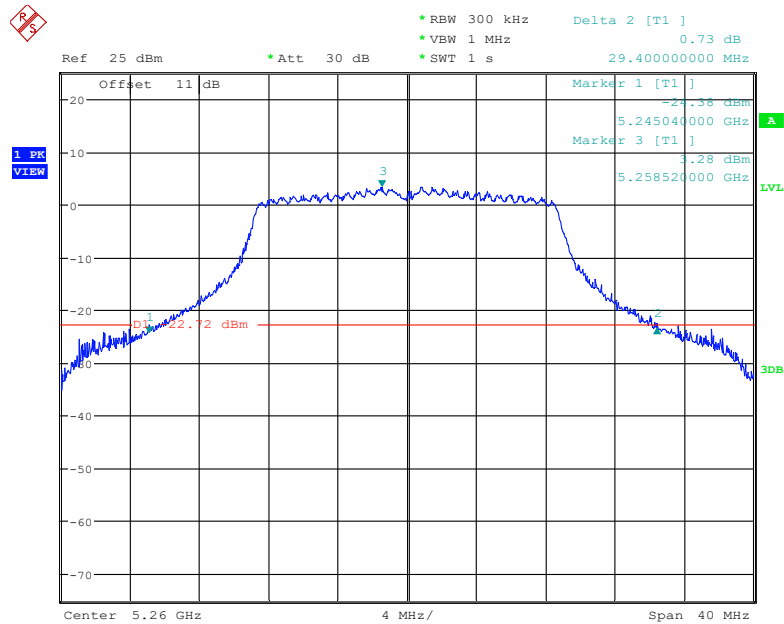
Date: 3.MAR.2023 21:58:48

802.11a mode, 5320 MHz



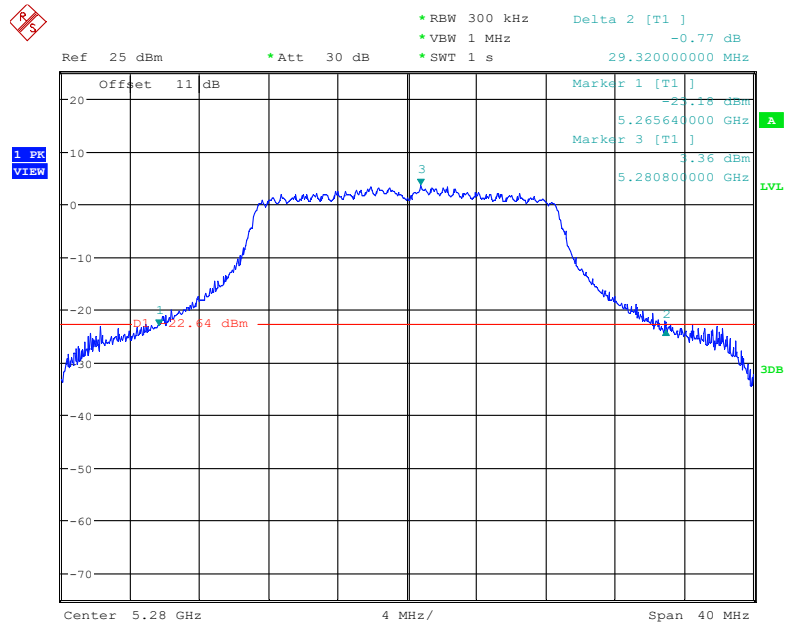
Date: 3.MAR.2023 22:01:24

802.11n20 mode, 5260 MHz



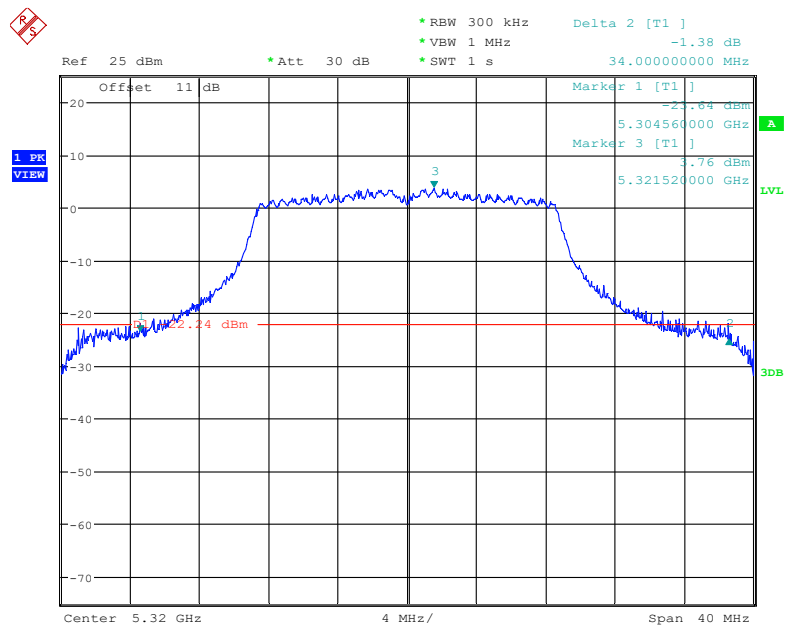
Date: 3.MAR.2023 22:06:43

802.11n20 mode, 5280 MHz



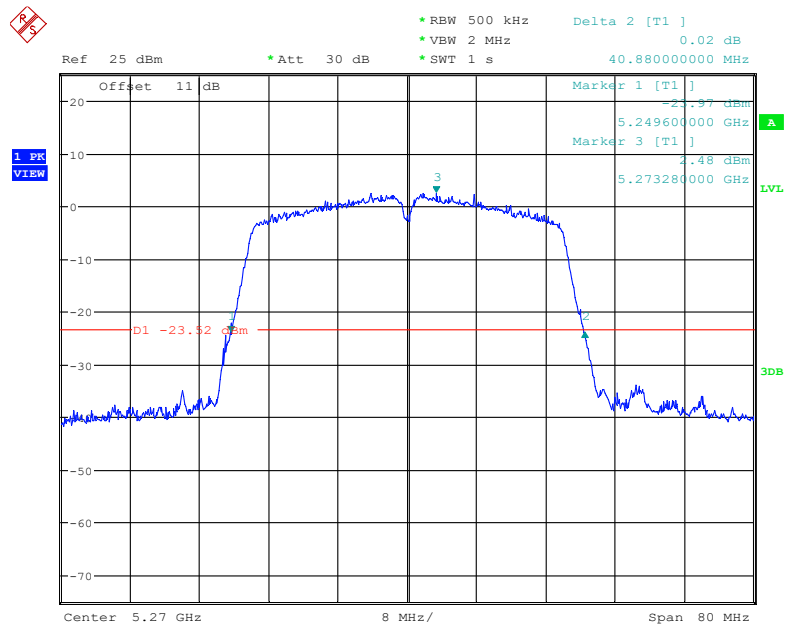
Date: 3.MAR.2023 22:10:27

802.11n20 mode, 5320 MHz



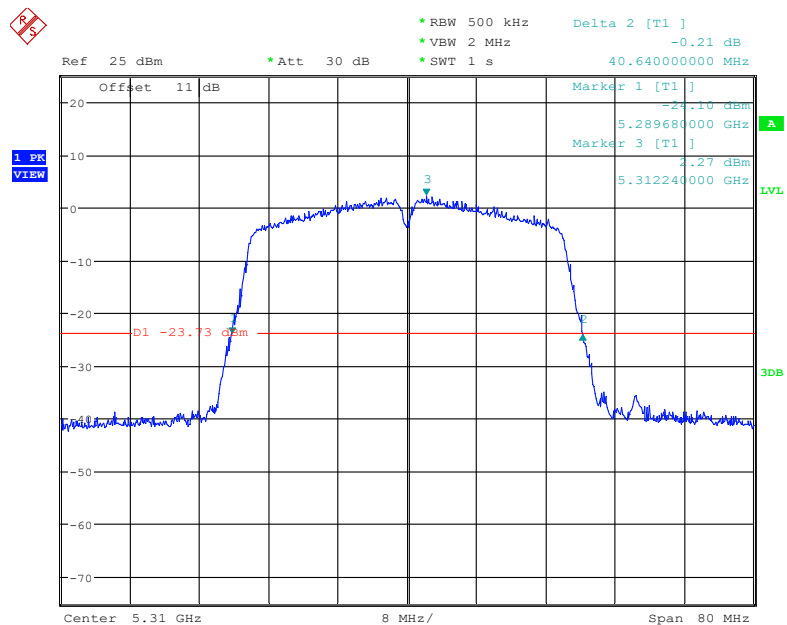
Date: 3.MAR.2023 22:15:12

802.11n40 mode, 5270 MHz



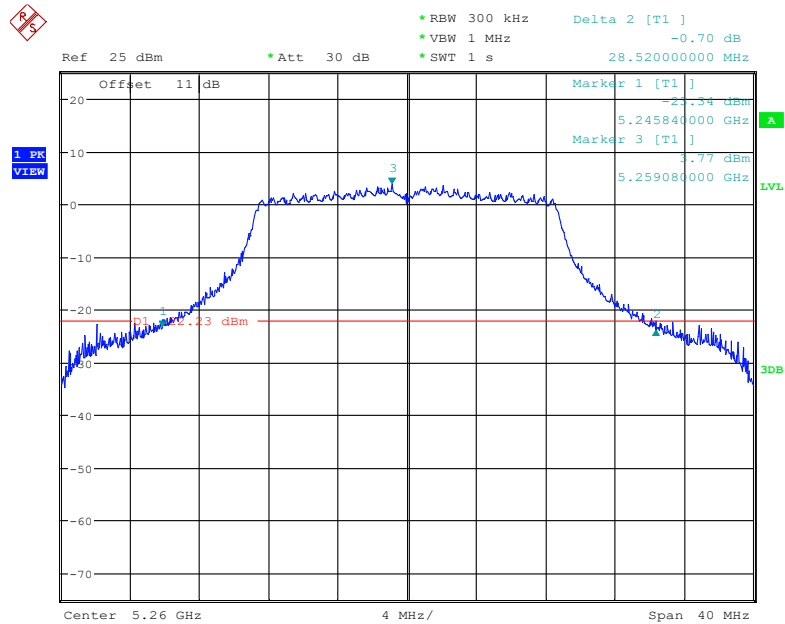
Date: 3.MAR.2023 23:00:31

802.11n40 mode, 5310 MHz



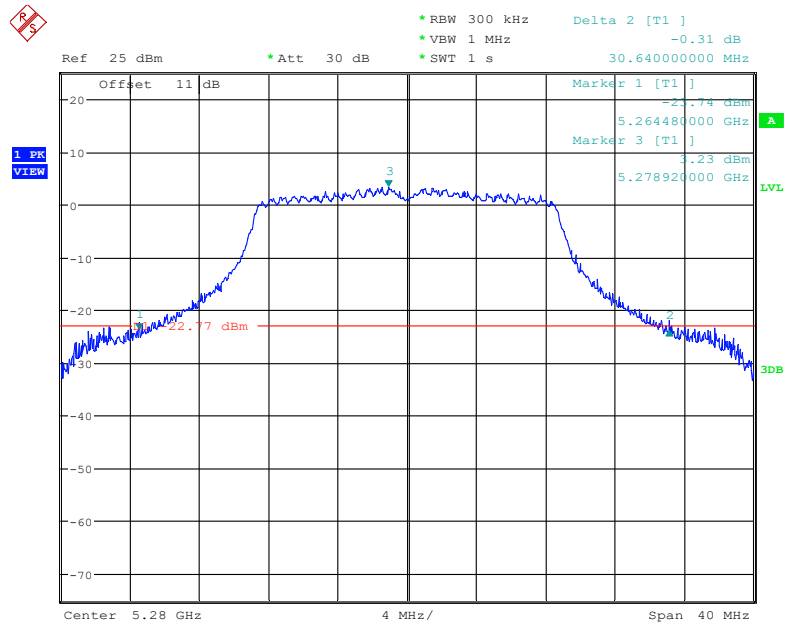
Date: 3.MAR.2023 23:05:26

802.11ac20 mode, 5260 MHz



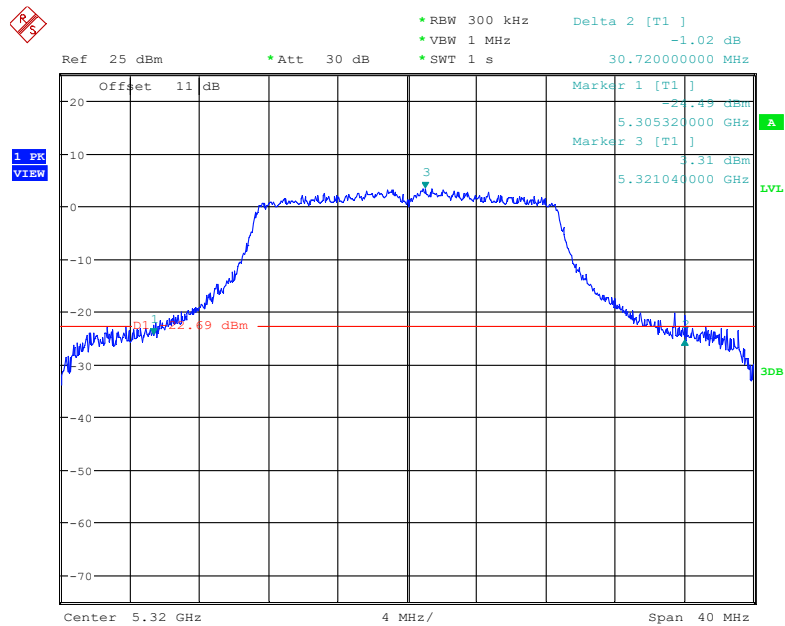
Date: 3.MAR.2023 21:42:24

802.11ac20 mode, 5280 MHz



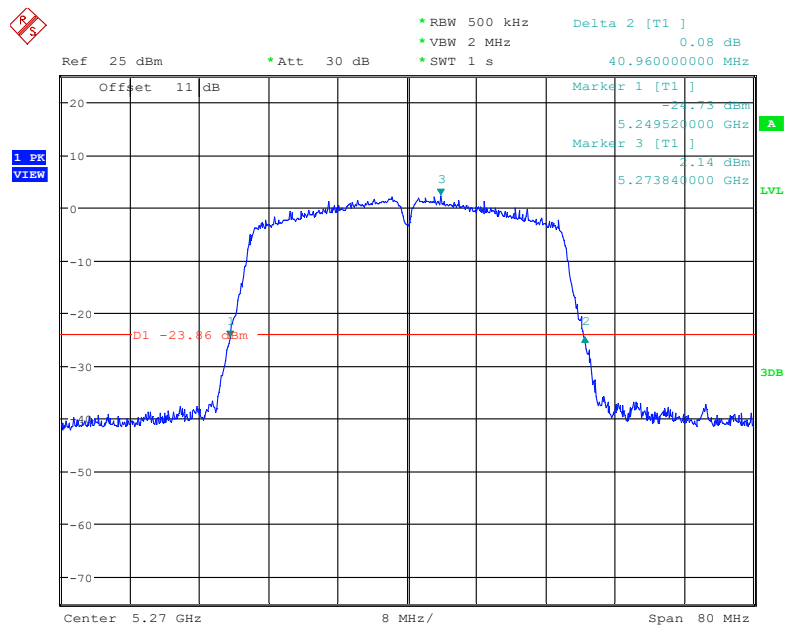
Date: 3.MAR.2023 21:47:27

802.11ac20 mode, 5320 MHz



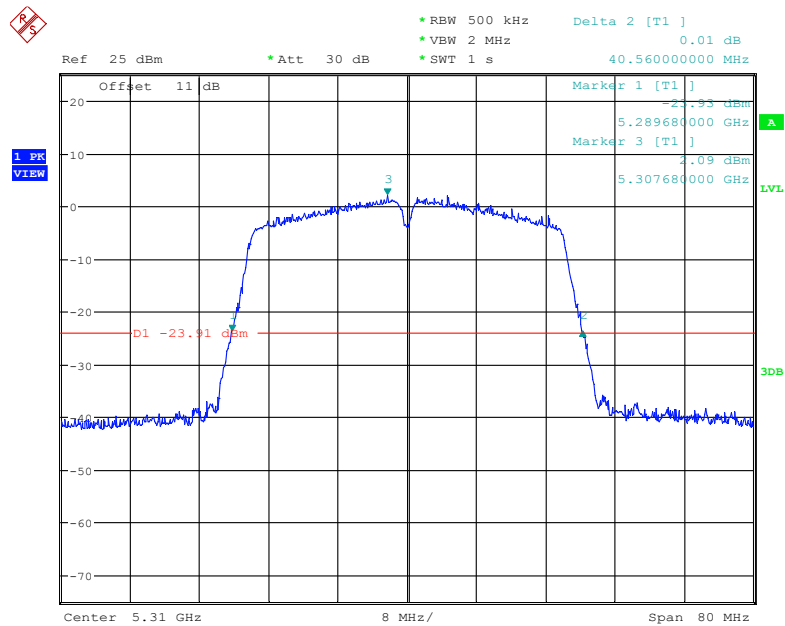
Date: 3.MAR.2023 21:51:21

802.11ac40 mode, 5270 MHz



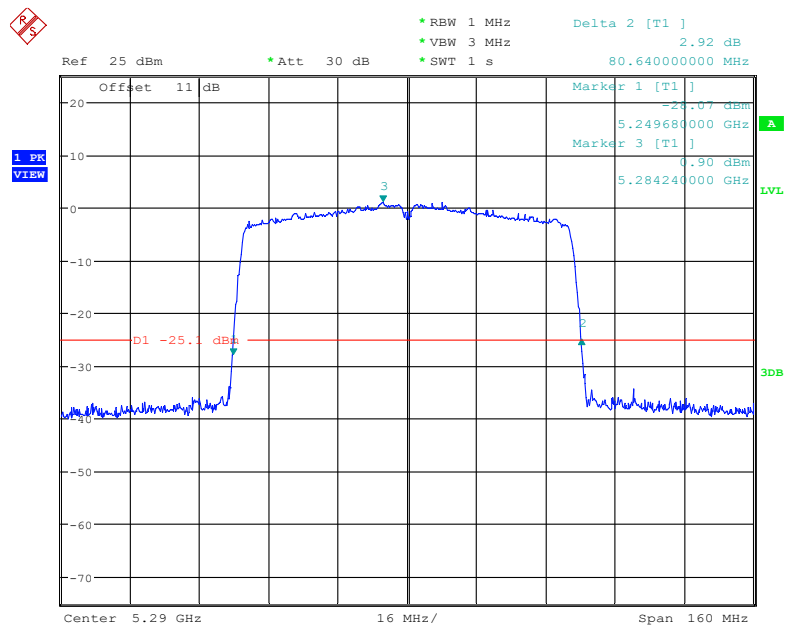
Date: 3.MAR.2023 22:55:38

802.11ac40 mode, 5310 MHz



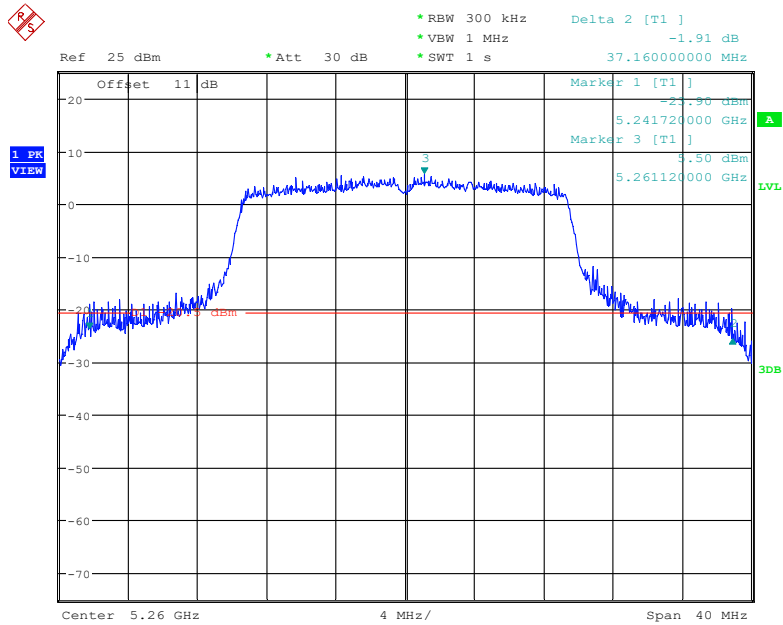
Date: 3.MAR.2023 22:58:01

802.11ac80 mode, 5290 MHz



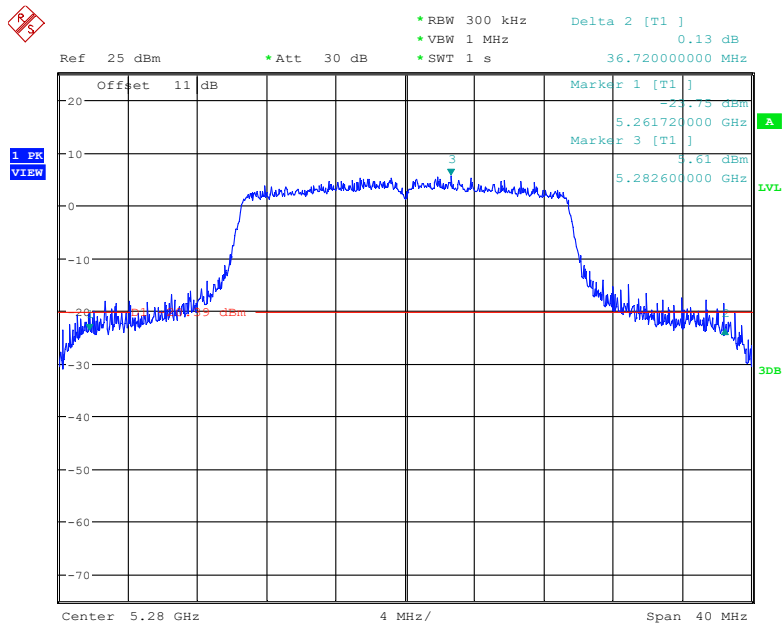
Date: 3.MAR.2023 23:17:50

802.11ax20 mode, 5260 MHz



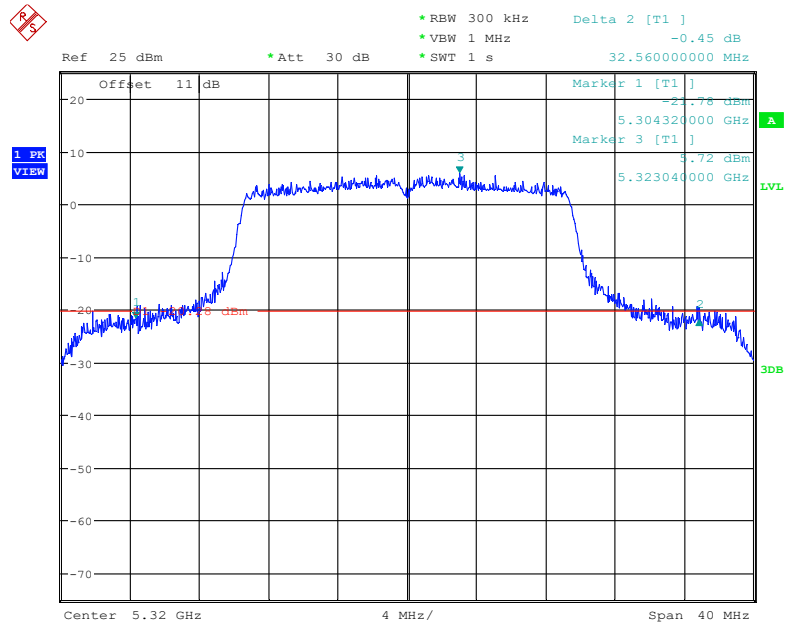
Date: 3.MAR.2023 22:22:45

802.11ax20 mode, 5280 MHz



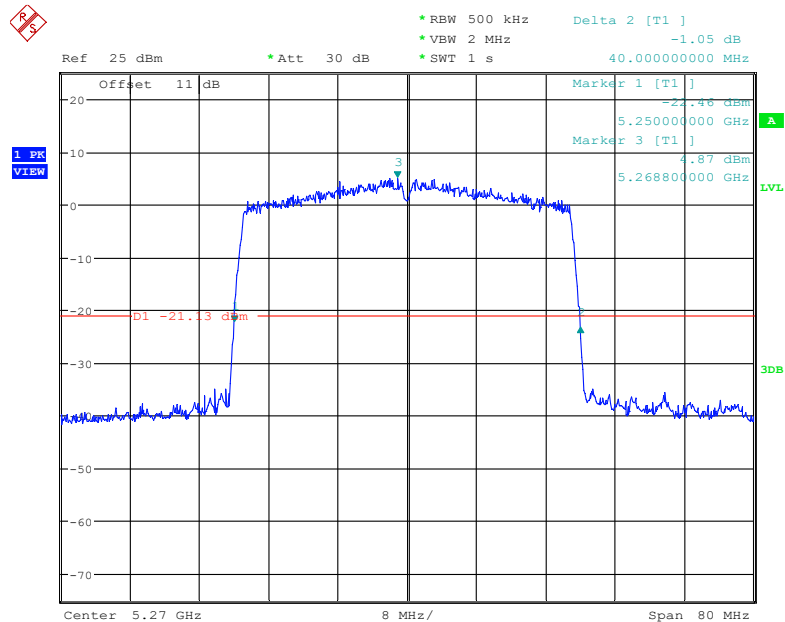
Date: 3.MAR.2023 22:28:05

802.11ax20 mode, 5320 MHz

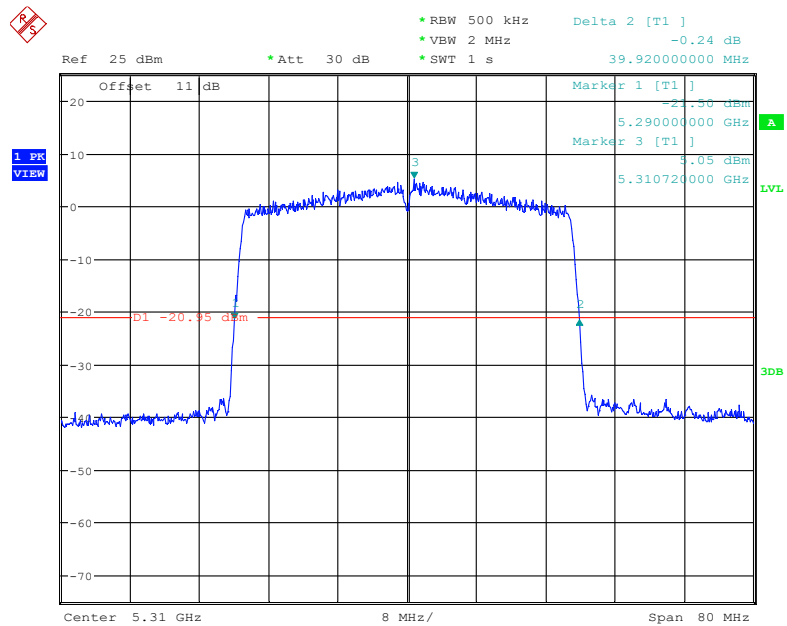


Date: 3.MAR.2023 22:33:54

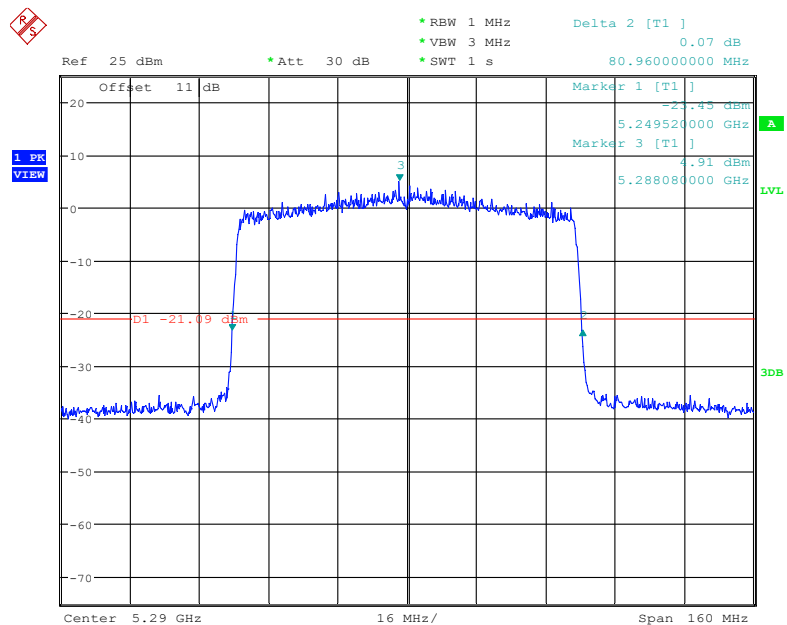
802.11ax40 mode, 5270 MHz



Date: 3.MAR.2023 22:49:04

802.11ax40 mode, 5310 MHz

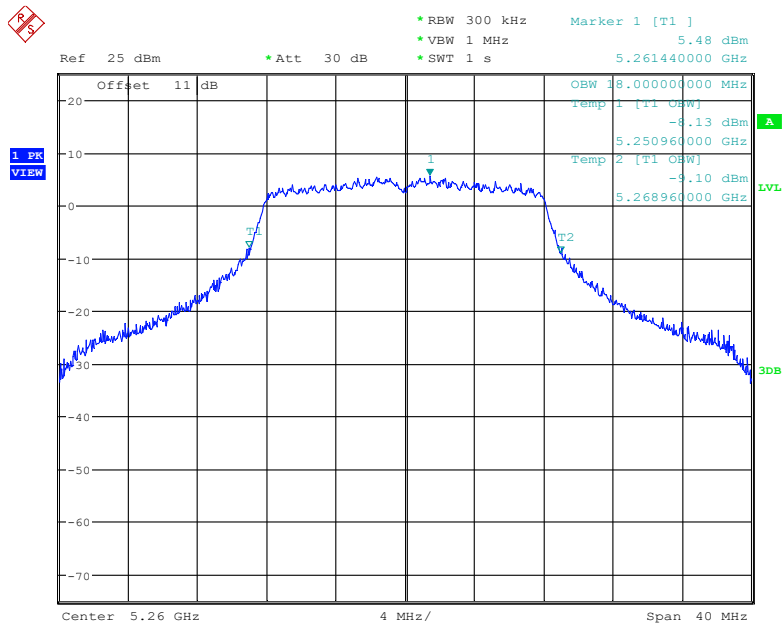
Date: 3.MAR.2023 22:52:18

802.11ax80 mode, 5290 MHz

Date: 3.MAR.2023 23:15:29

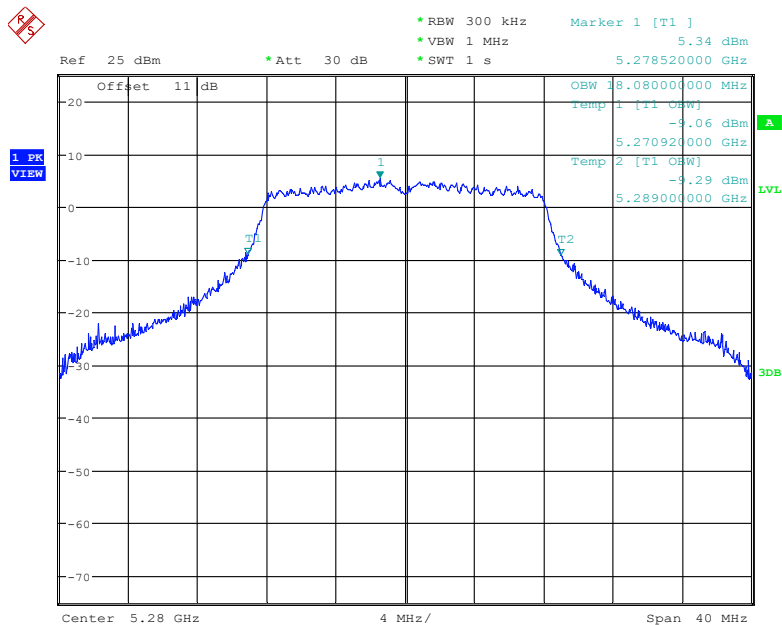
99% Bandwidth:

802.11a mode, 5260 MHz



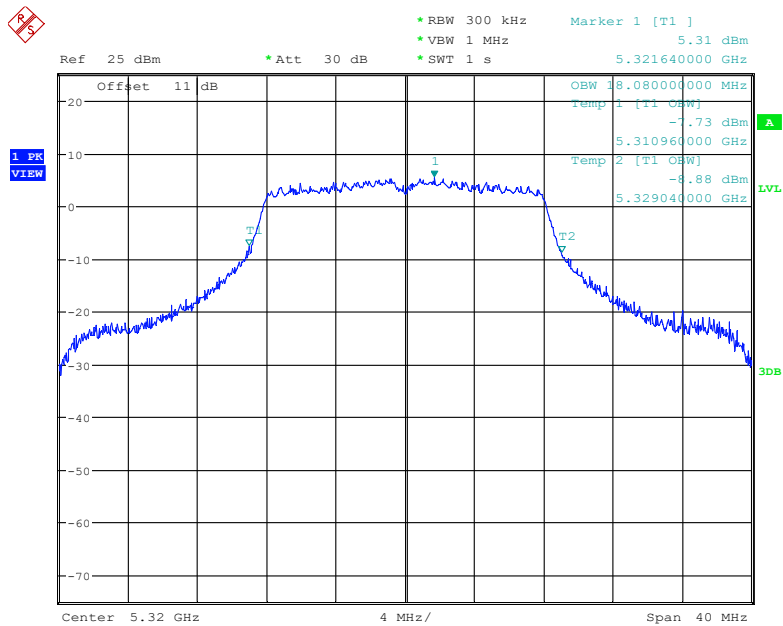
Date: 3.MAR.2023 21:55:23

802.11a mode, 5280 MHz



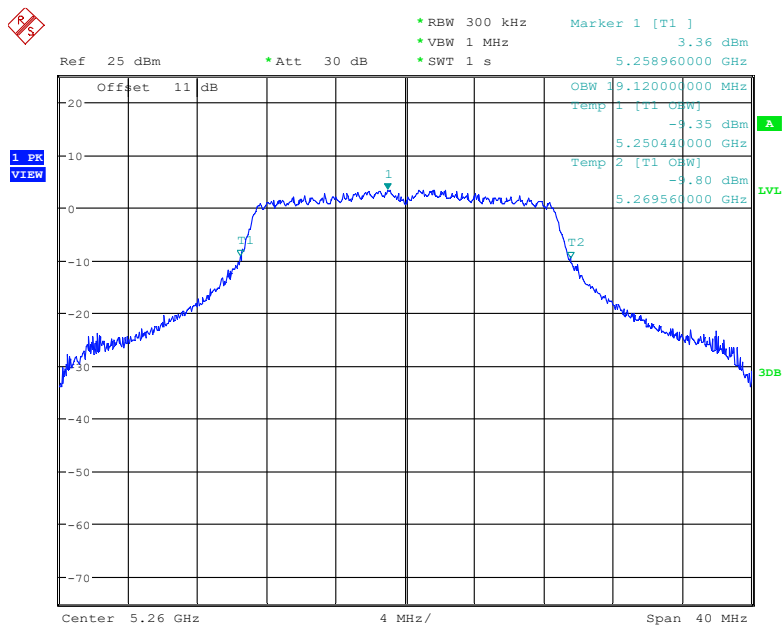
Date: 3.MAR.2023 21:58:01

802.11a mode, 5320 MHz



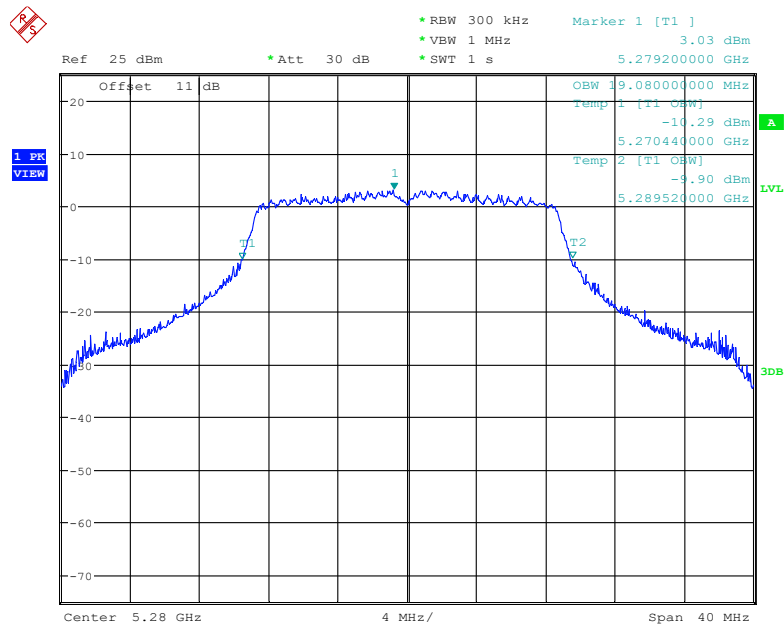
Date: 3.MAR.2023 22:00:38

802.11n20 mode, 5260 MHz



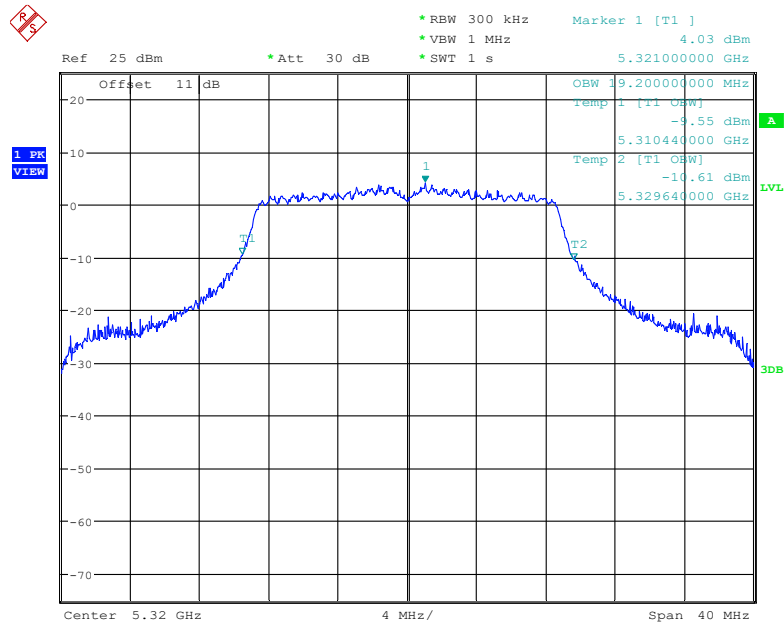
Date: 3.MAR.2023 22:05:33

802.11n20 mode, 5280 MHz



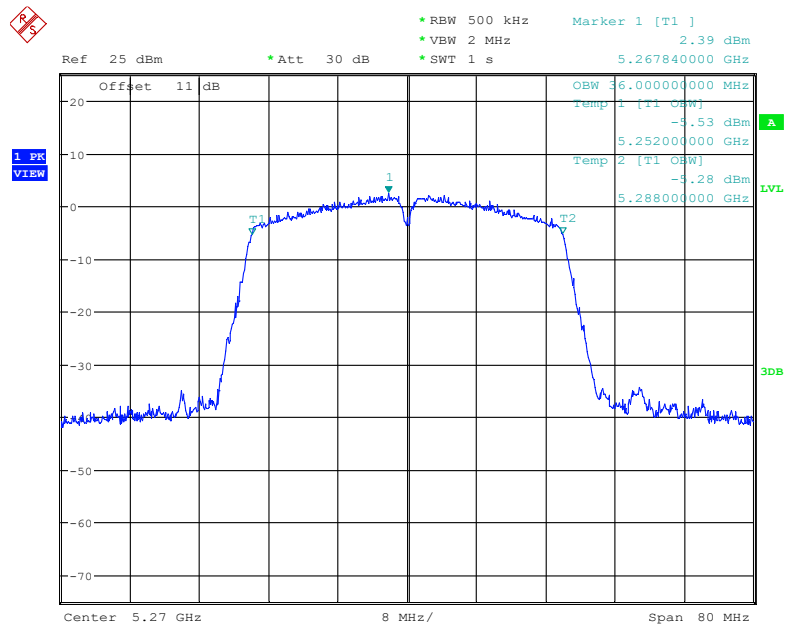
Date: 3.MAR.2023 22:08:41

802.11n20 mode, 5320 MHz



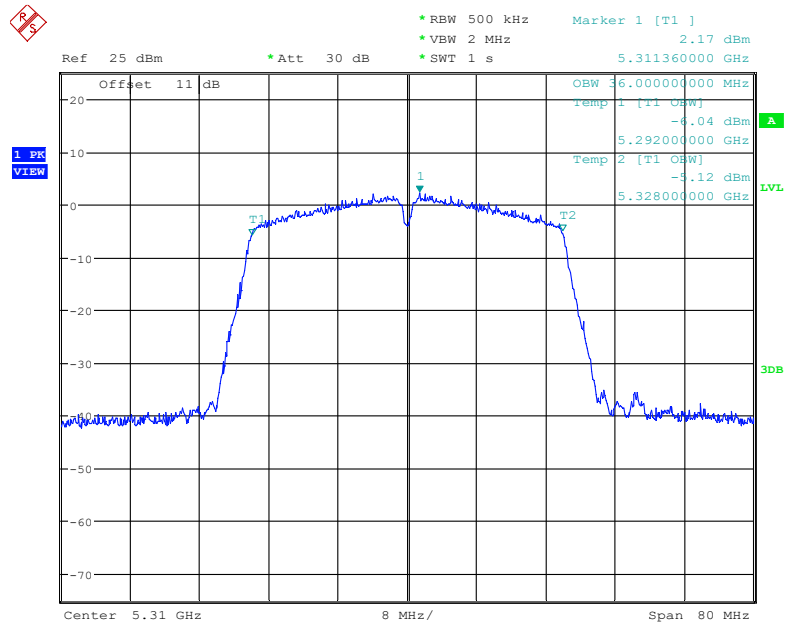
Date: 3.MAR.2023 22:13:37

802.11n40 mode, 5270 MHz



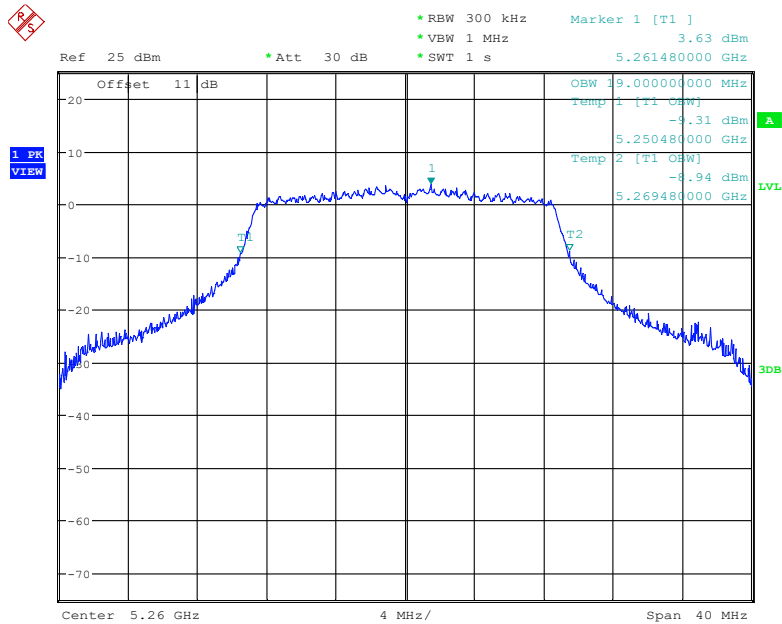
Date: 3.MAR.2023 22:59:58

802.11n40 mode, 5310 MHz



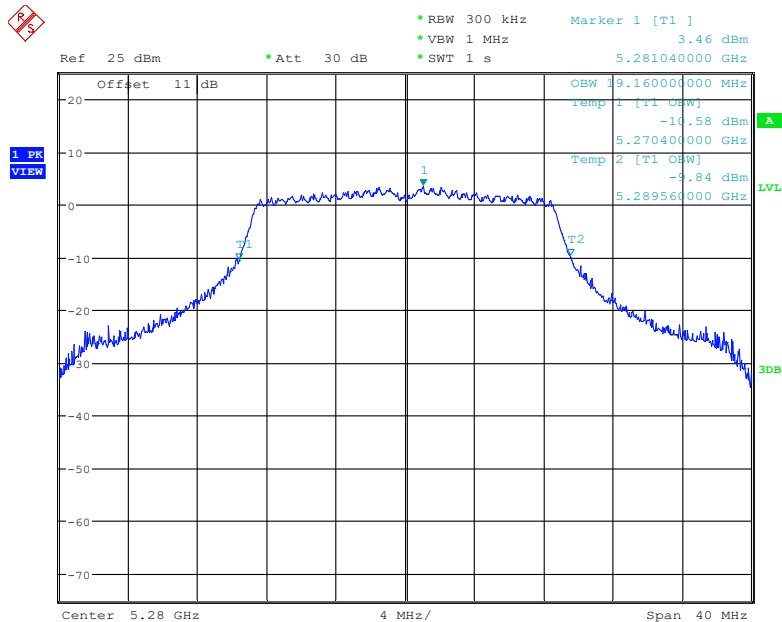
Date: 3.MAR.2023 23:05:04

802.11ac20 mode, 5260 MHz



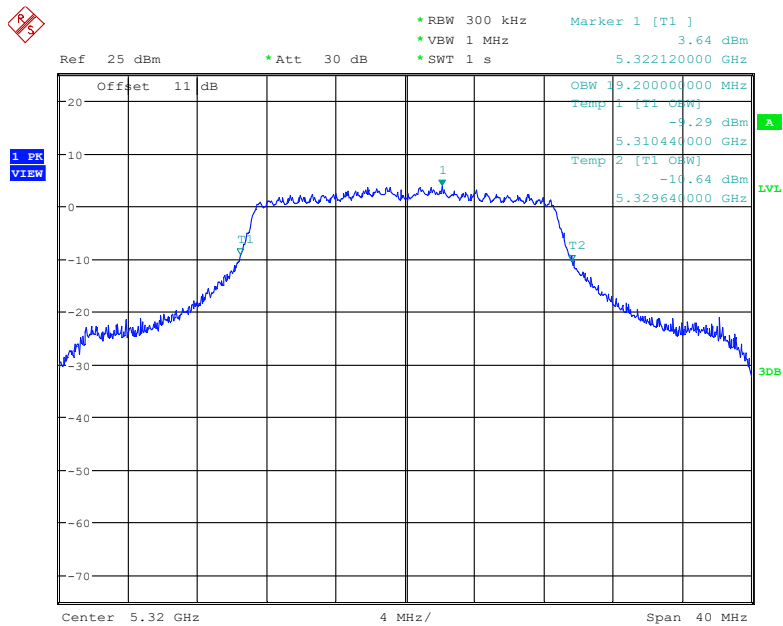
Date: 3.MAR.2023 21:41:25

802.11ac20 mode, 5280 MHz



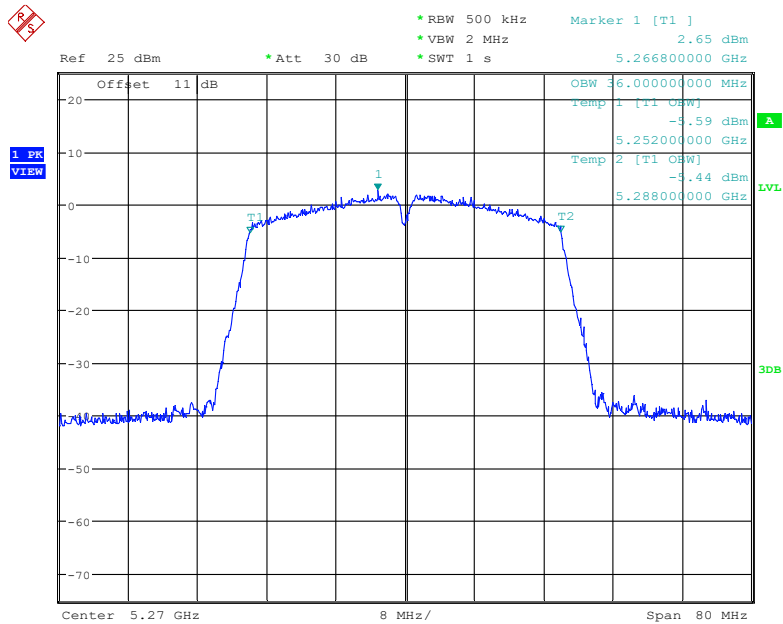
Date: 3.MAR.2023 21:45:27

802.11ac20 mode, 5320 MHz



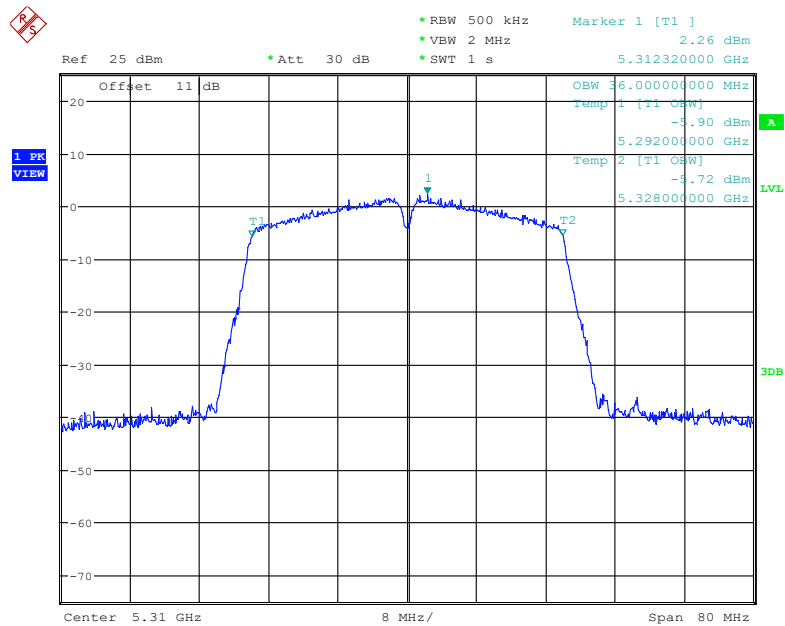
Date: 3.MAR.2023 21:50:46

802.11ac40 mode, 5270 MHz



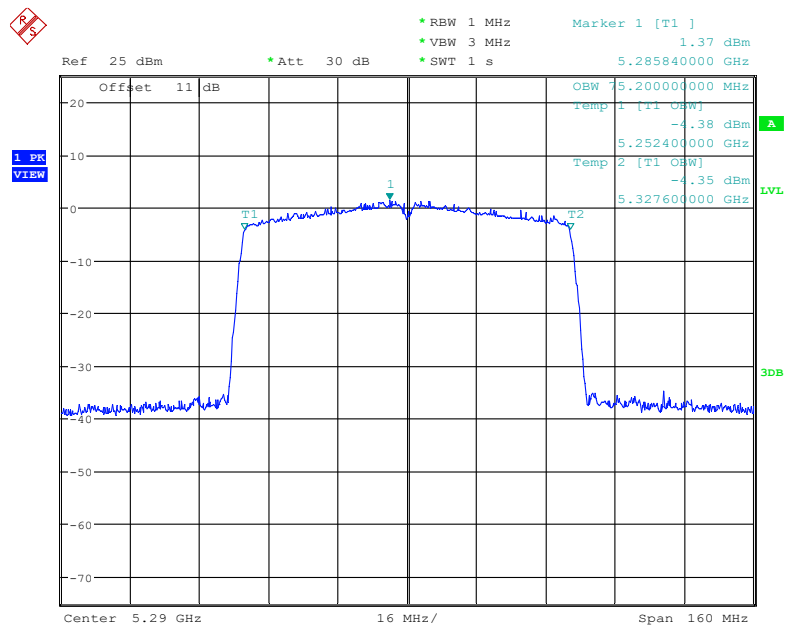
Date: 3.MAR.2023 22:55:15

802.11ac40 mode, 5310 MHz



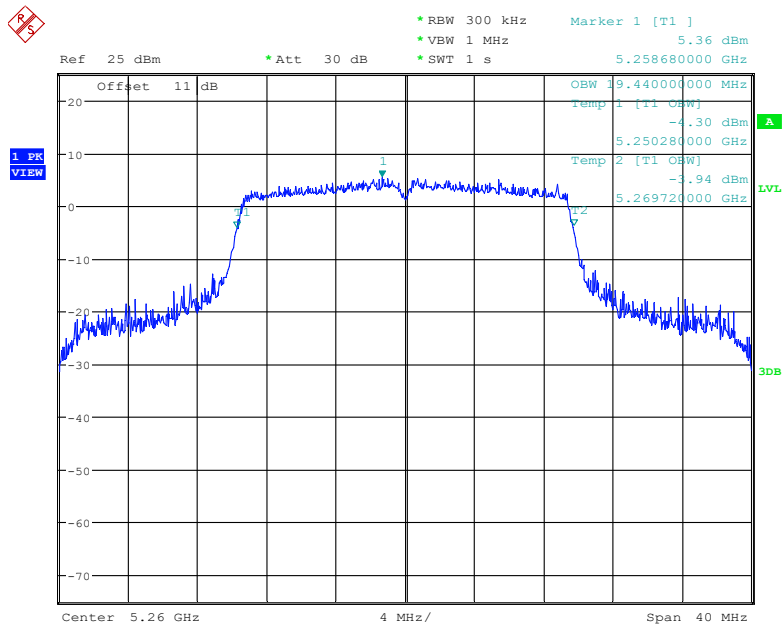
Date: 3.MAR.2023 22:57:40

802.11ac80 mode, 5290 MHz



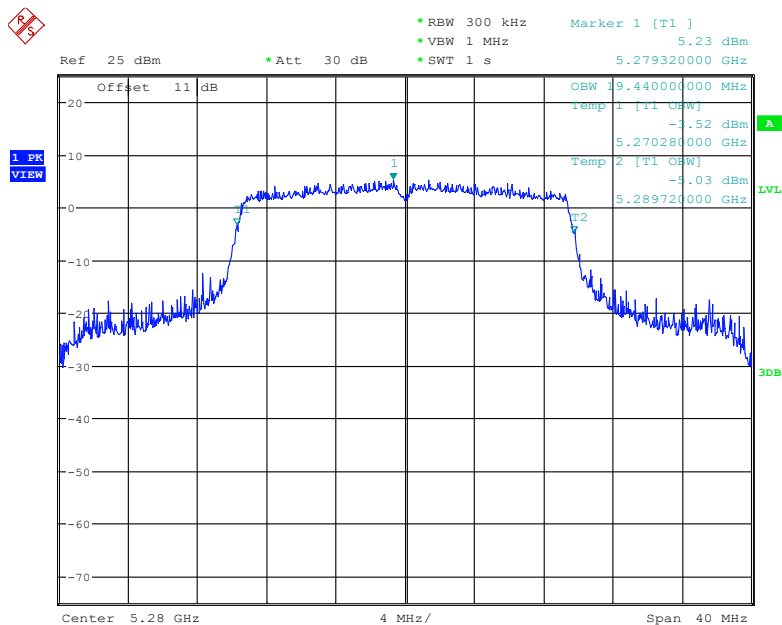
Date: 3.MAR.2023 23:17:29

802.11ax20 mode, 5260 MHz



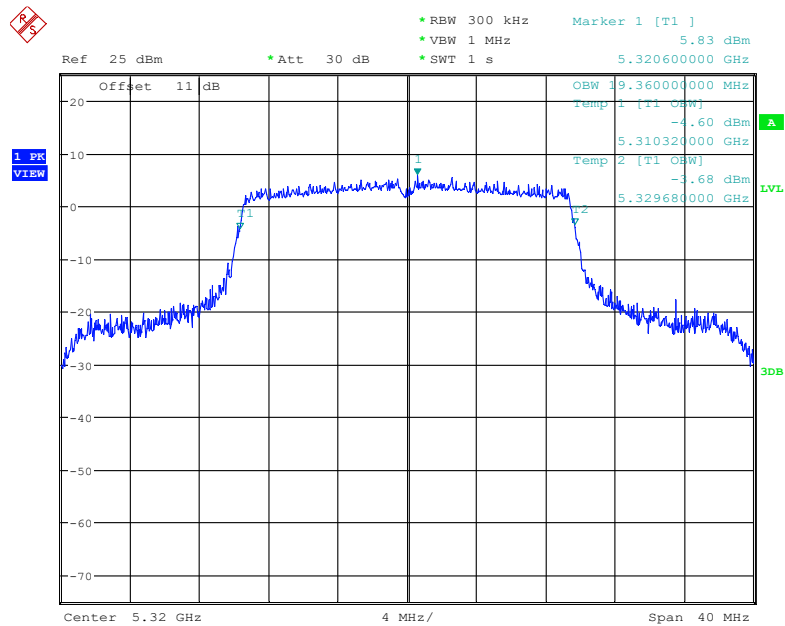
Date: 3.MAR.2023 22:20:58

802.11ax20 mode, 5280 MHz



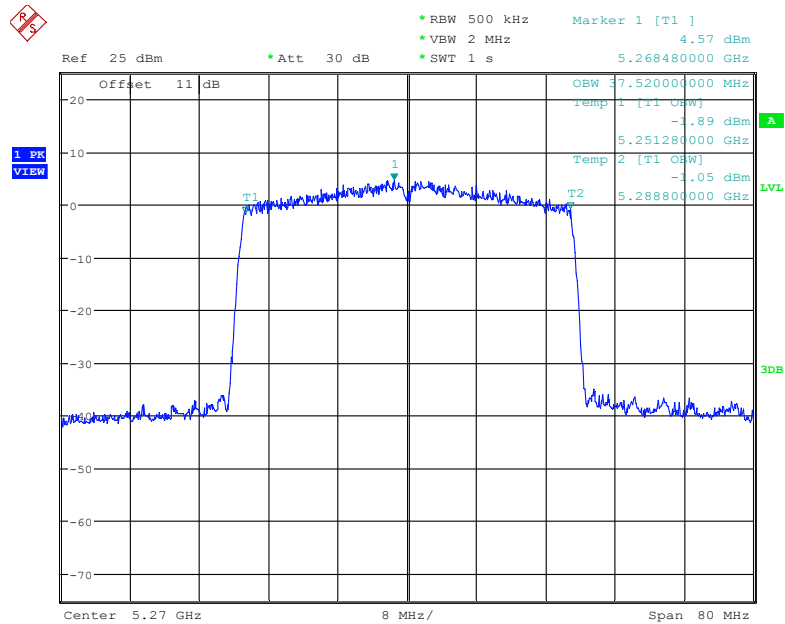
Date: 3.MAR.2023 22:26:17

802.11ax20 mode, 5320 MHz



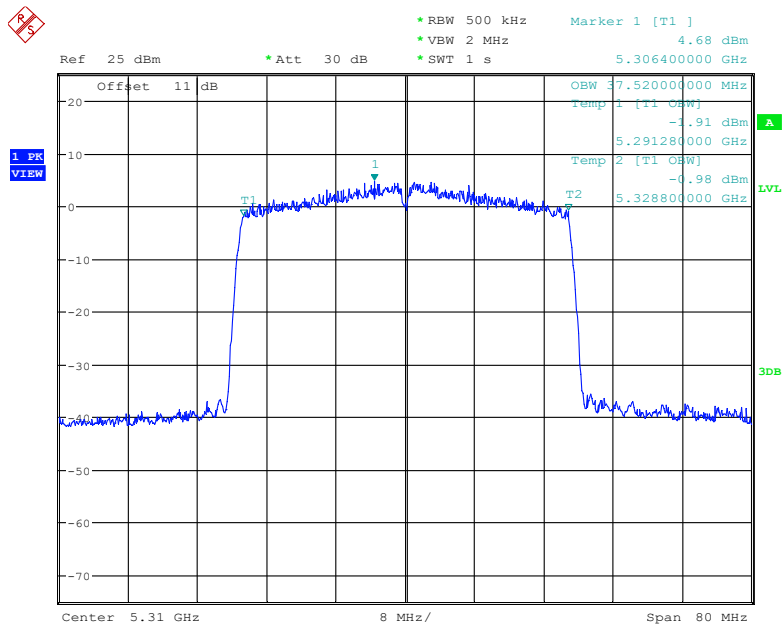
Date: 3.MAR.2023 22:32:43

802.11ax40 mode, 5270 MHz



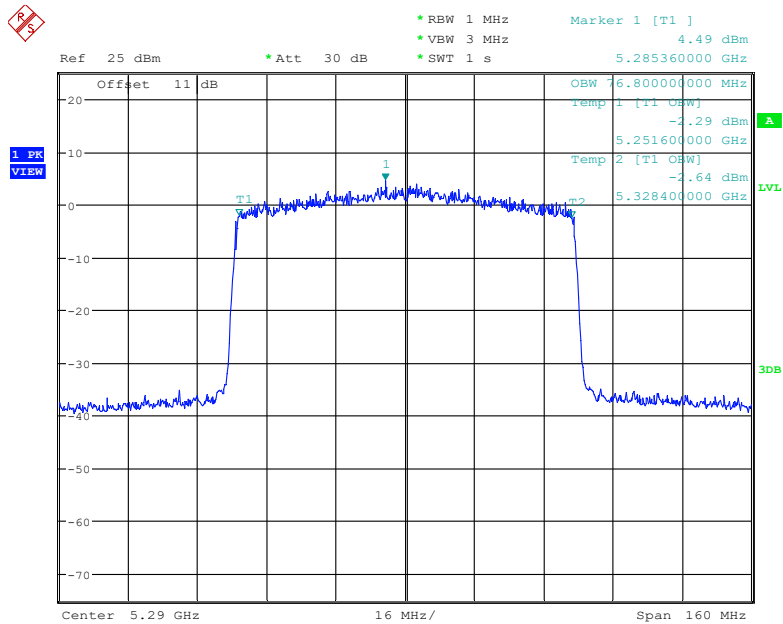
Date: 3.MAR.2023 22:48:17

802.11ax40 mode, 5310 MHz



Date: 3.MAR.2023 22:51:45

802.11ax80 mode, 5290 MHz



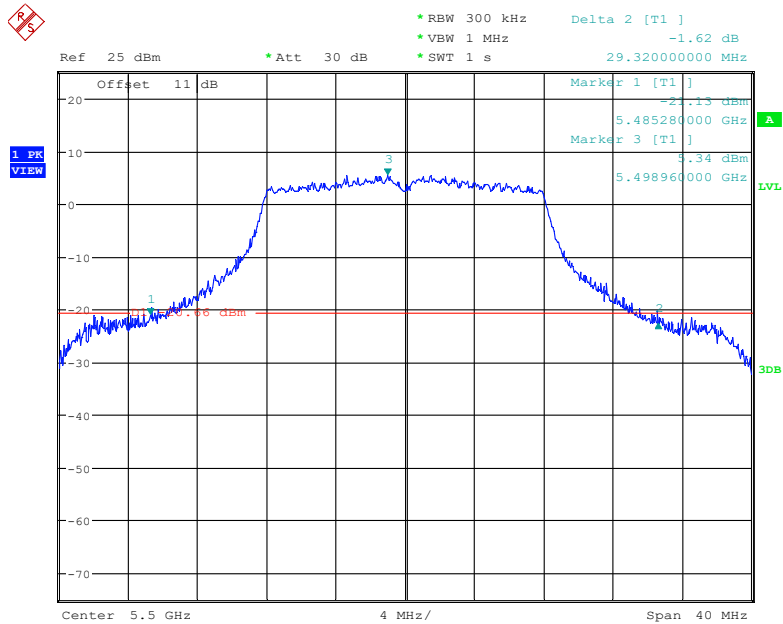
Date: 3.MAR.2023 23:15:06

5470 MHz – 5725 MHz:

Frequency (MHz)	Antenna Port	26dB bandwidth (MHz)	99% Bandwidth (MHz)
802.11a			
5500	Ant1	29.32	18.00
5580	Ant1	27.88	17.96
5700	Ant1	35.52	18.44
802.11n20			
5500	Ant1	33.00	19.12
5580	Ant1	31.64	19.00
5700	Ant1	35.20	19.08
802.11n40			
5510	Ant1	40.72	36.00
5550	Ant1	40.88	36.08
5670	Ant1	41.36	36.16
802.11ac20			
5500	Ant1	36.96	19.04
5580	Ant1	29.44	19.08
5700	Ant1	34.60	19.20
802.11ac40			
5510	Ant1	40.80	36.00
5550	Ant1	40.64	36.00
5670	Ant1	41.20	36.16
802.11ac80			
5530	Ant1	80.48	75.36
5610	Ant1	80.12	75.04
802.11ax20			
5500	Ant1	35.36	19.40
5580	Ant1	36.56	19.40
5700	Ant1	35.40	19.36
802.11ax40			
5510	Ant1	41.04	36.00
5550	Ant1	40.00	37.52
5670	Ant1	39.84	37.52
802.11ax80			
5530	Ant1	81.12	76.80
5610	Ant1	81.12	76.96

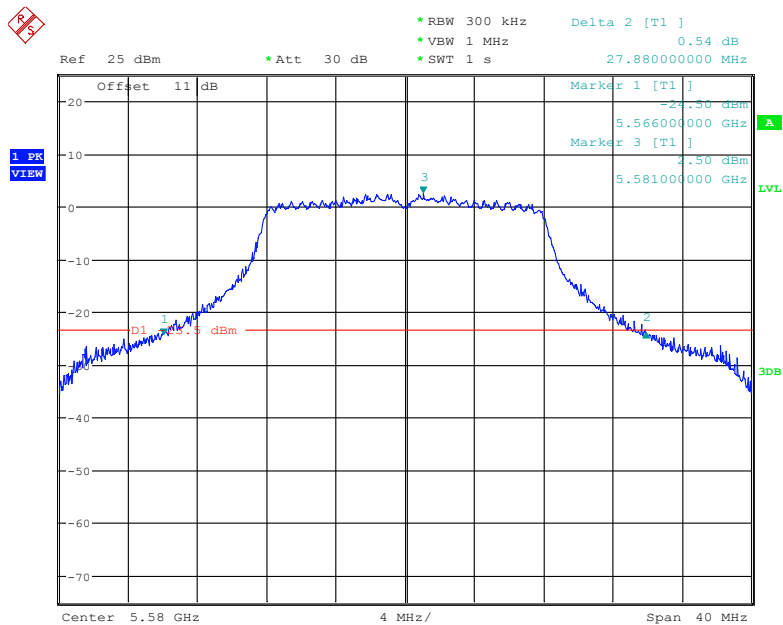
26dB Bandwidth

802.11a mode, 5500 MHz



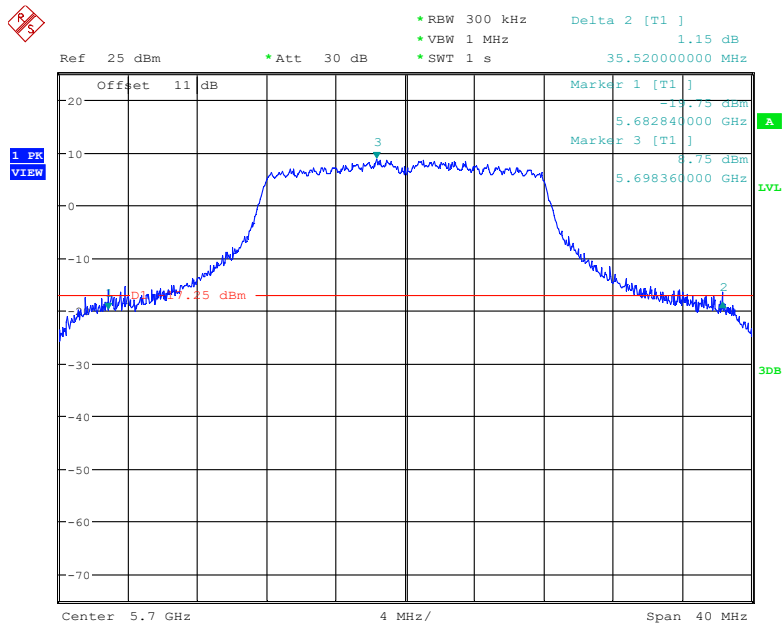
Date: 3.MAR.2023 23:27:13

802.11a mode, 5580 MHz



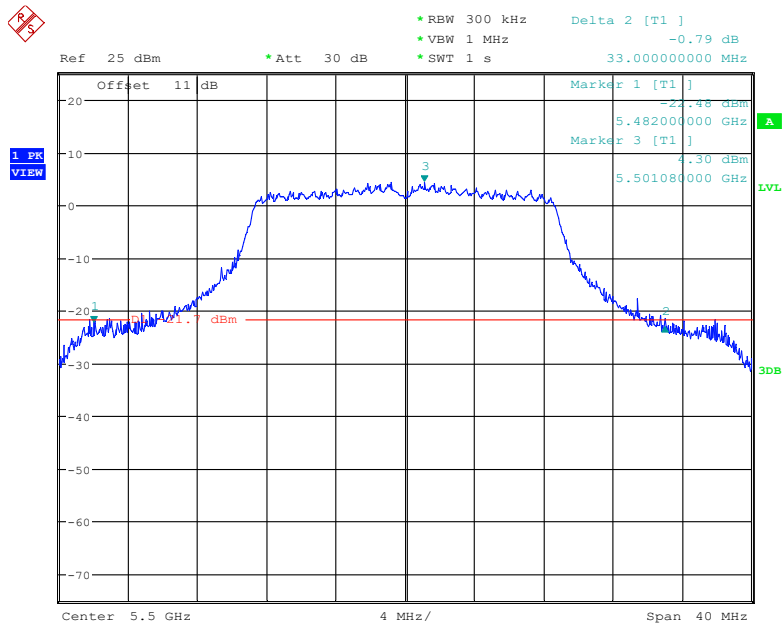
Date: 3.MAR.2023 23:30:37

802.11n20 mode, 5700 MHz



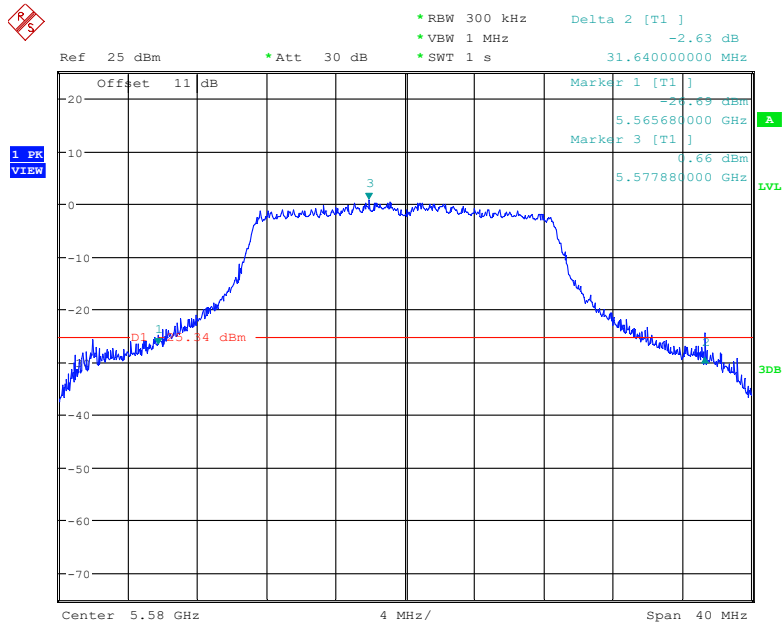
Date: 3.MAR.2023 23:34:21

802.11n20 mode, 5500 MHz



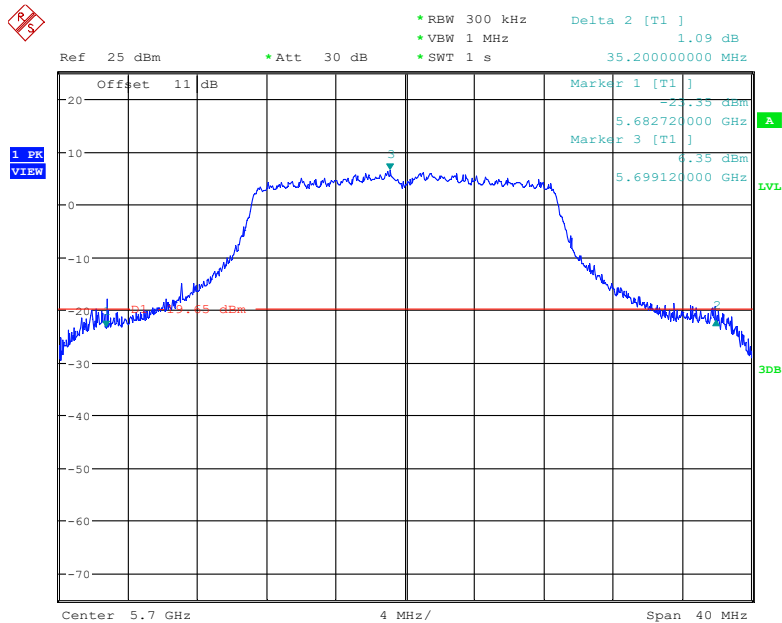
Date: 4.MAR.2023 00:16:21

802.11n20 mode, 5580 MHz



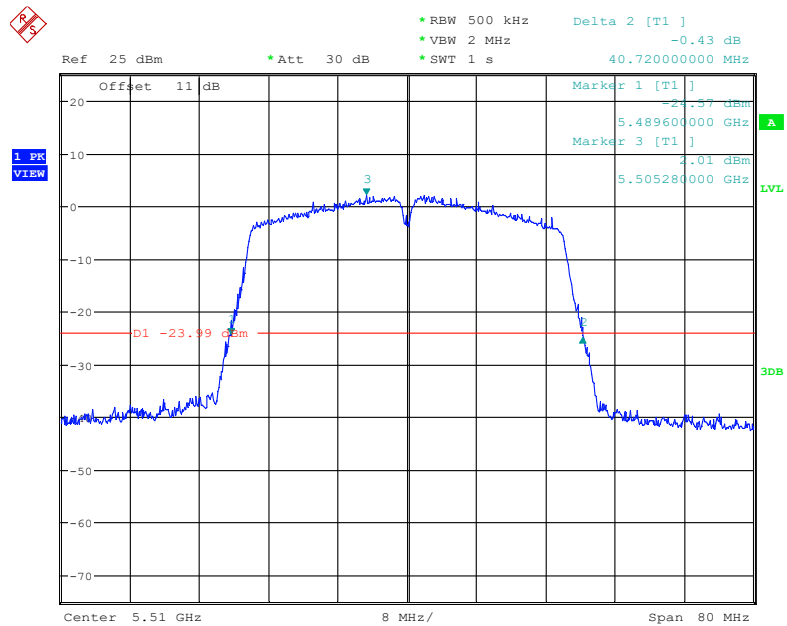
Date: 4.MAR.2023 00:19:56

802.11n20 mode, 5700 MHz



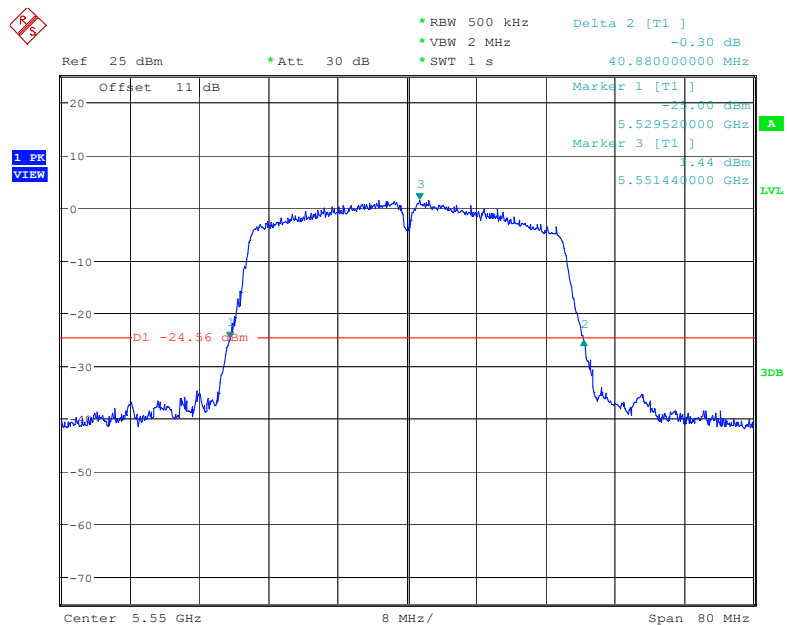
Date: 4.MAR.2023 00:23:18

802.11n40 mode, 5510 MHz



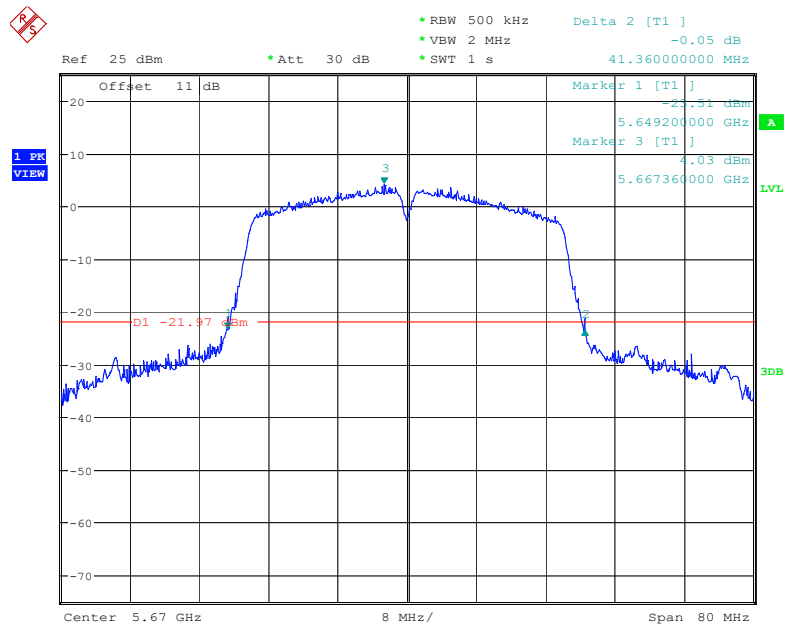
Date: 4.MAR.2023 00:51:19

802.11n40 mode, 5550 MHz



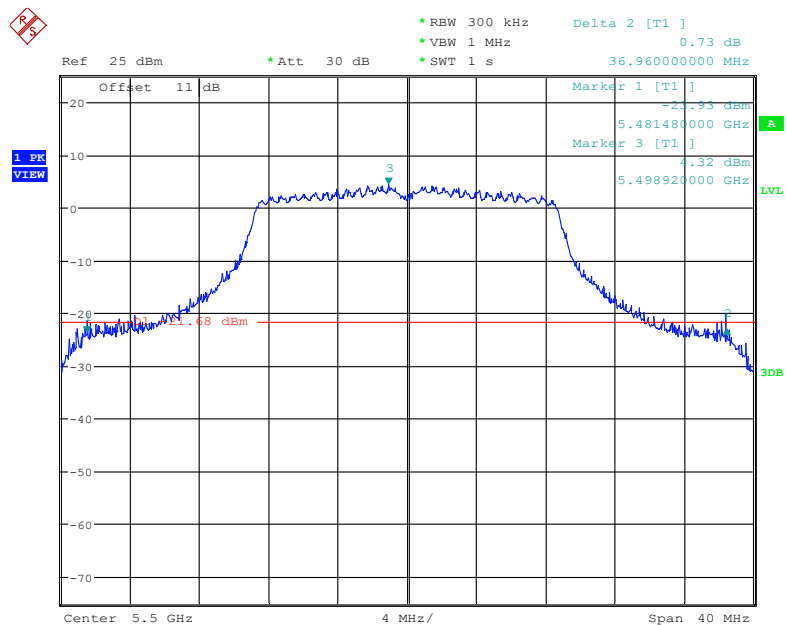
Date: 6.MAR.2023 20:57:32

802.11 n40 mode, 5670 MHz



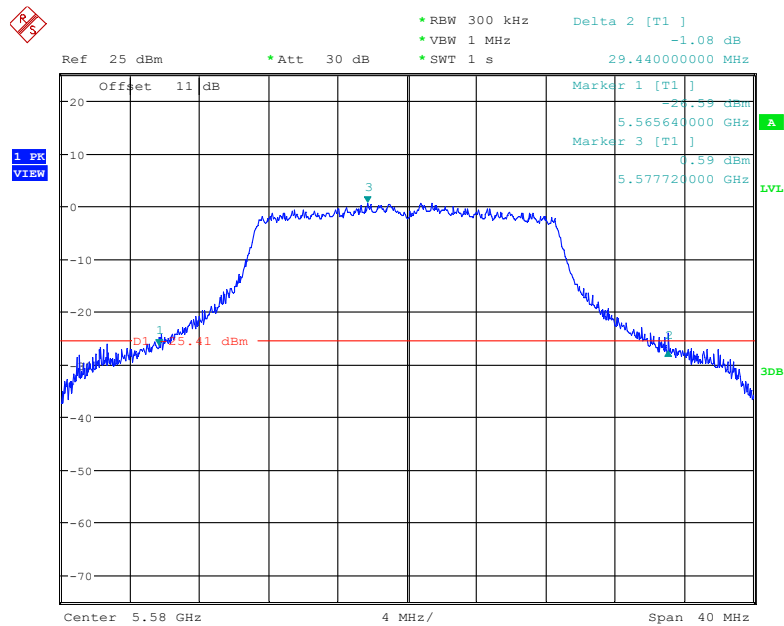
Date: 6.MAR.2023 21:00:06

802.11ac20 mode, 5500 MHz



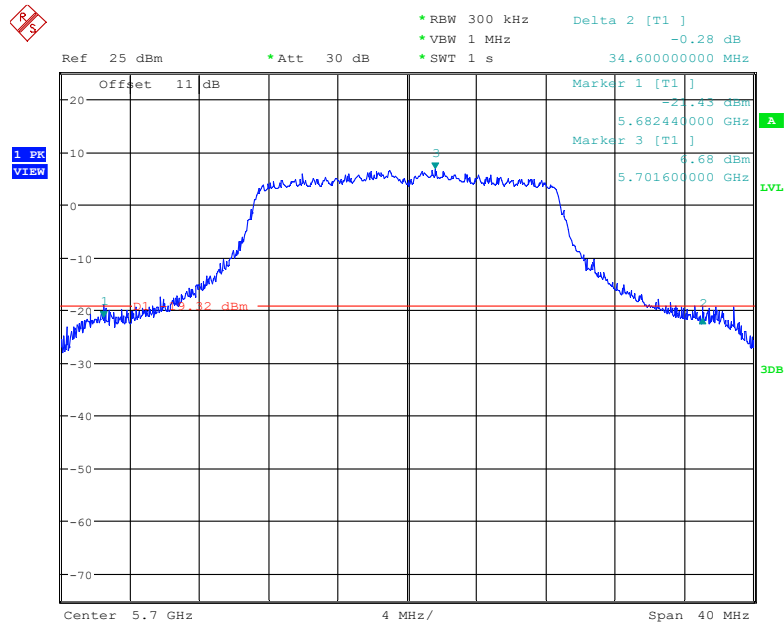
Date: 3.MAR.2023 23:42:47

802.11ac20 mode, 5580 MHz



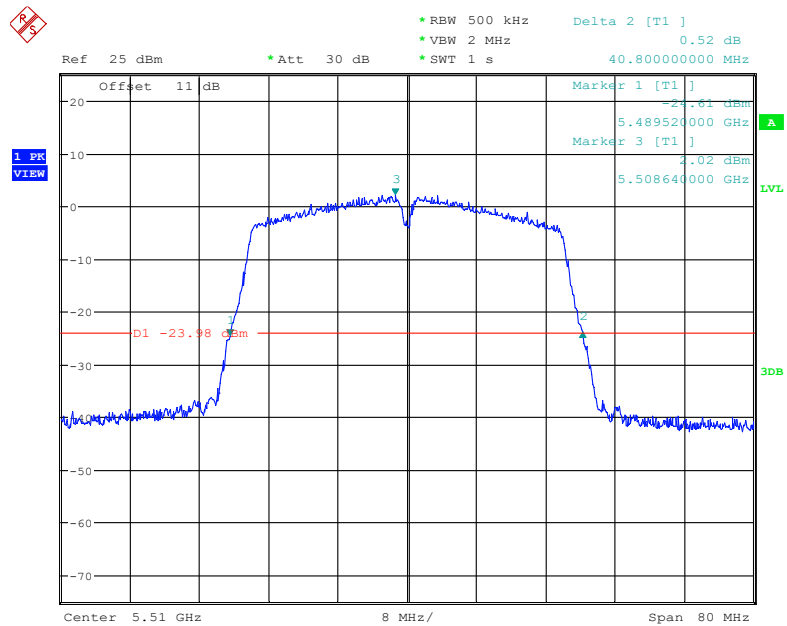
Date: 3.MAR.2023 23:46:13

802.11ac20 mode, 5700 MHz



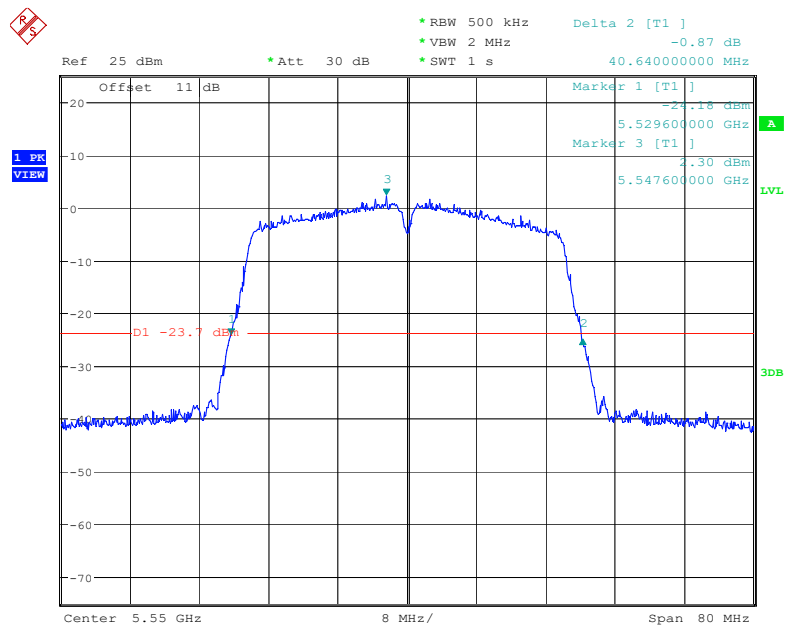
Date: 3.MAR.2023 23:50:56

802.11ac40 mode, 5510 MHz



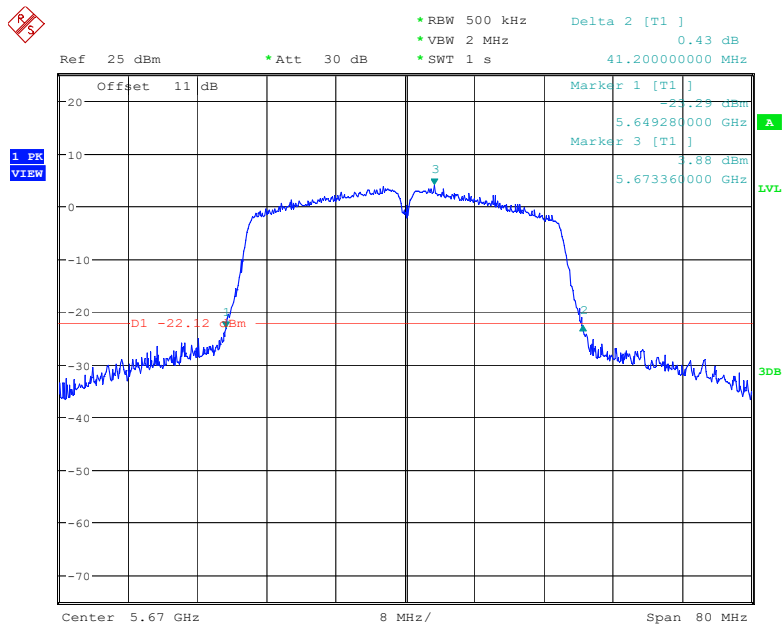
Date: 4.MAR.2023 00:30:33

802.11ac40 mode, 5550 MHz



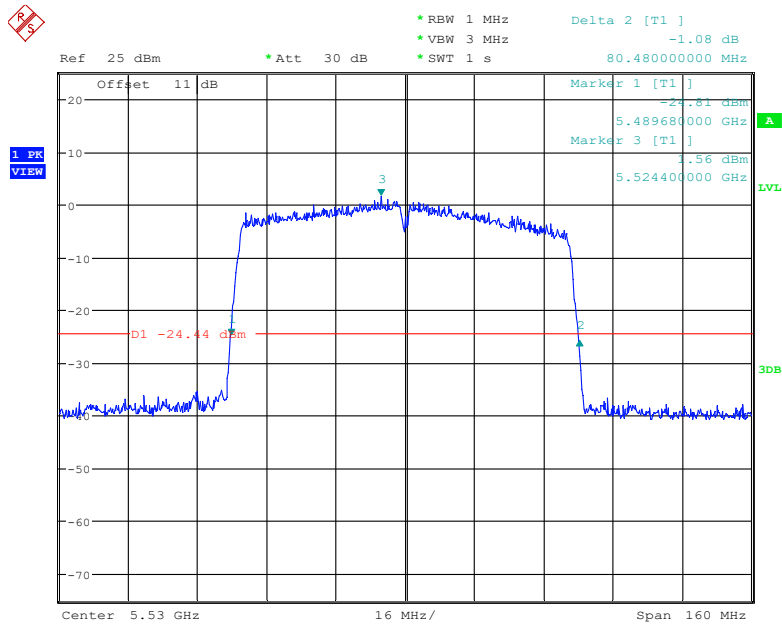
Date: 6.MAR.2023 20:54:27

802.11ac40 mode, 5670 MHz



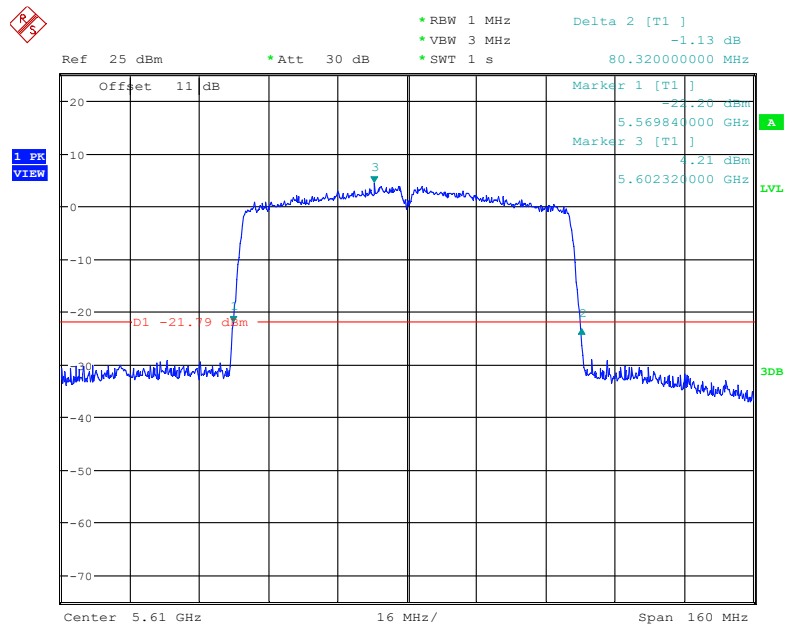
Date: 6.MAR.2023 20:52:10

802.11ac80 mode, 5530 MHz



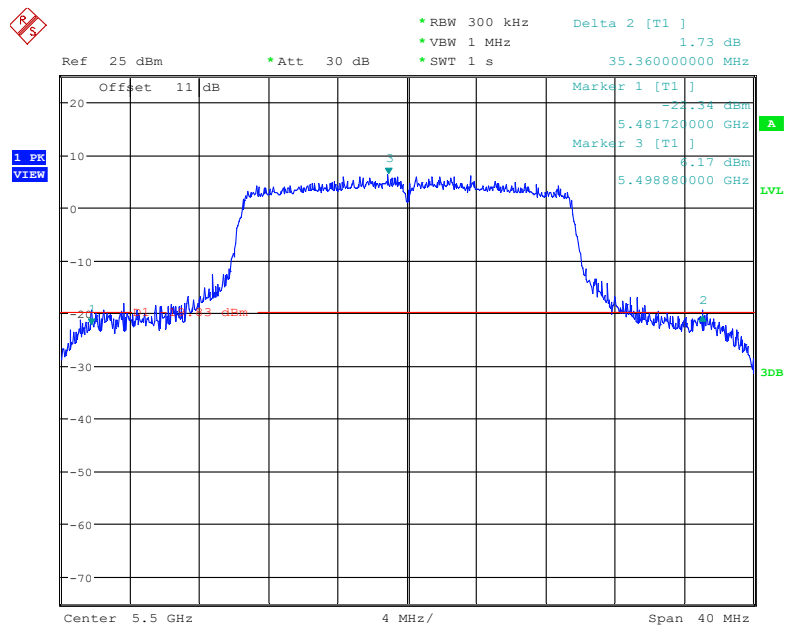
Date: 5.MAR.2023 10:08:08

802.11ac80 mode, 5610 MHz



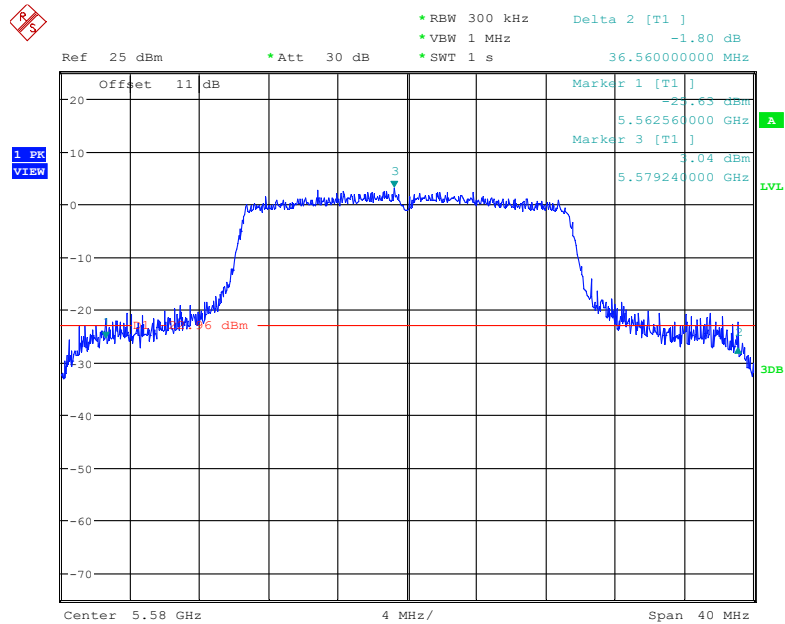
Date: 3.APR.2023 15:07:51

802.11ax20 mode, 5500 MHz



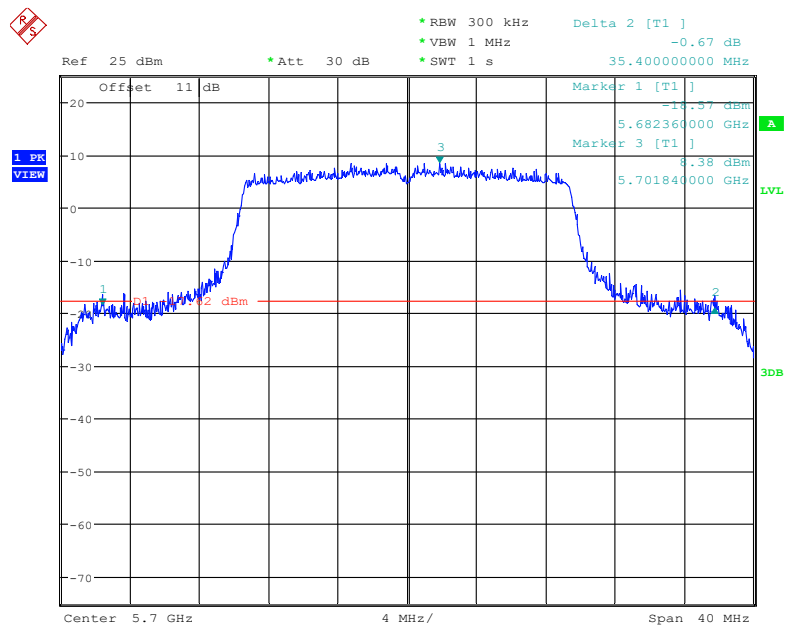
Date: 3.MAR.2023 23:59:05

802.11ax20 mode, 5580 MHz



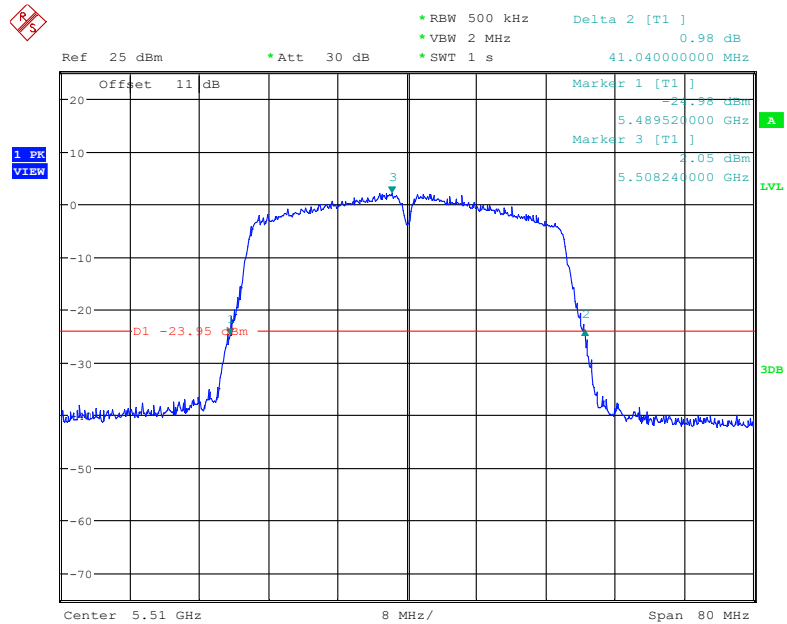
Date: 4.MAR.2023 00:05:59

802.11ax20 mode, 5700 MHz



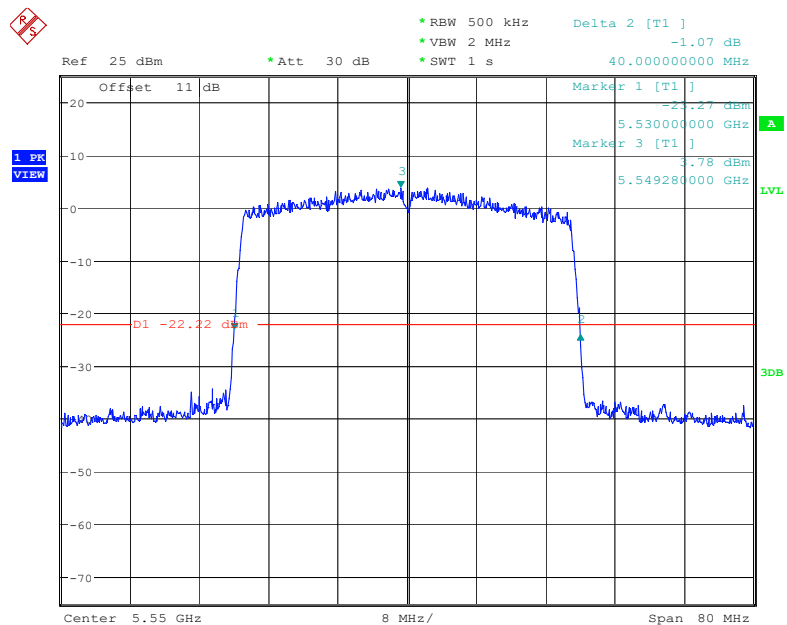
Date: 4.MAR.2023 00:10:20

802.11ax40 mode, 5510 MHz



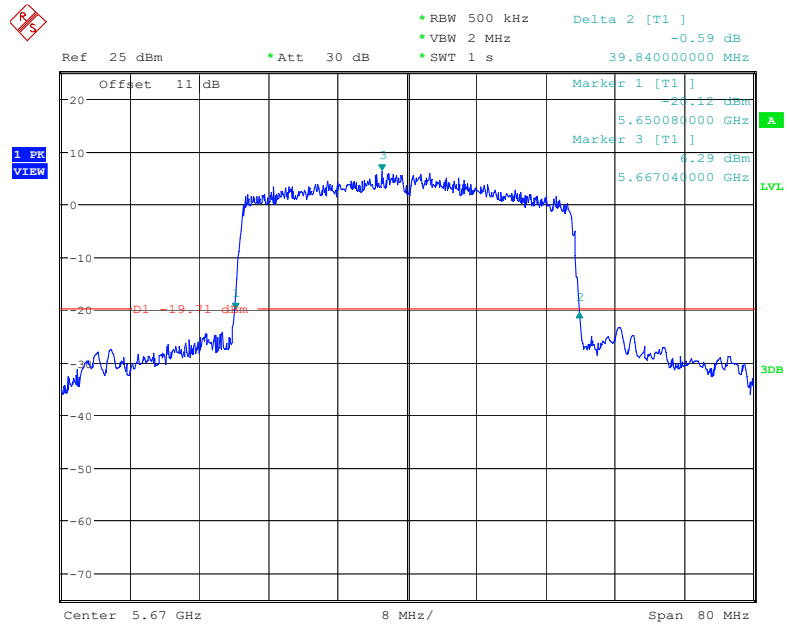
Date: 4.MAR.2023 00:40:05

802.11ax40 mode, 5550 MHz



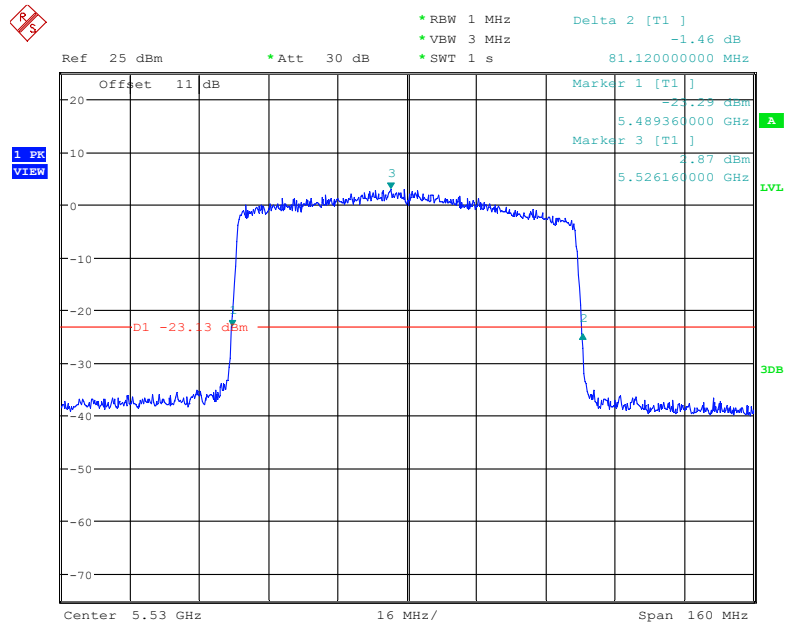
Date: 6.MAR.2023 20:44:21

802.11ax40 mode, 5670 MHz



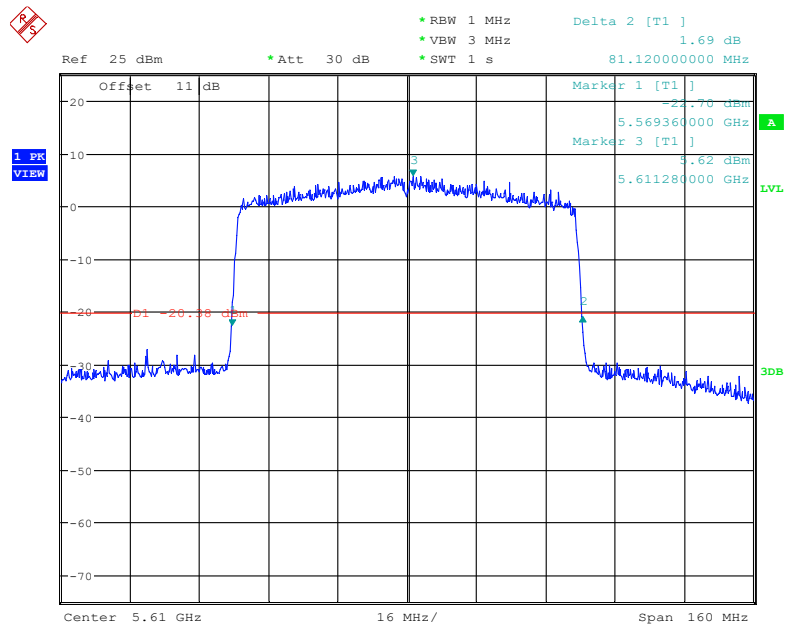
Date: 6.MAR.2023 20:49:36

802.11ax80 mode, 5530 MHz



Date: 5.MAR.2023 10:39:52

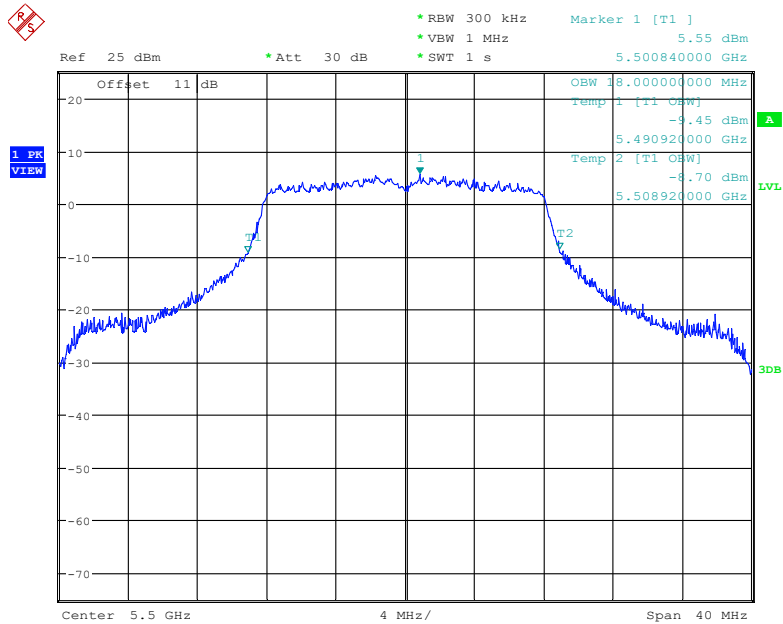
802.11ax80 mode, 5610 MHz



Date: 3.APR.2023 15:05:06

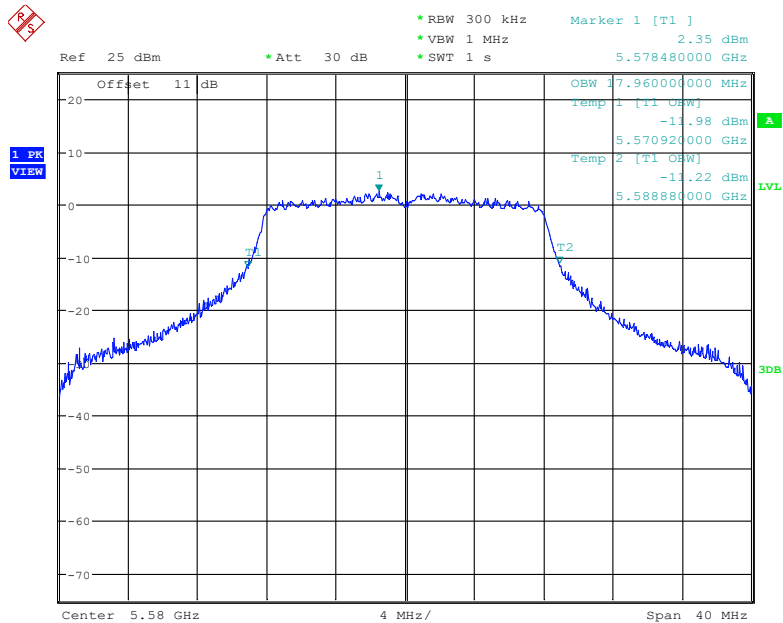
99% Bandwidth

802.11a mode, 5500 MHz



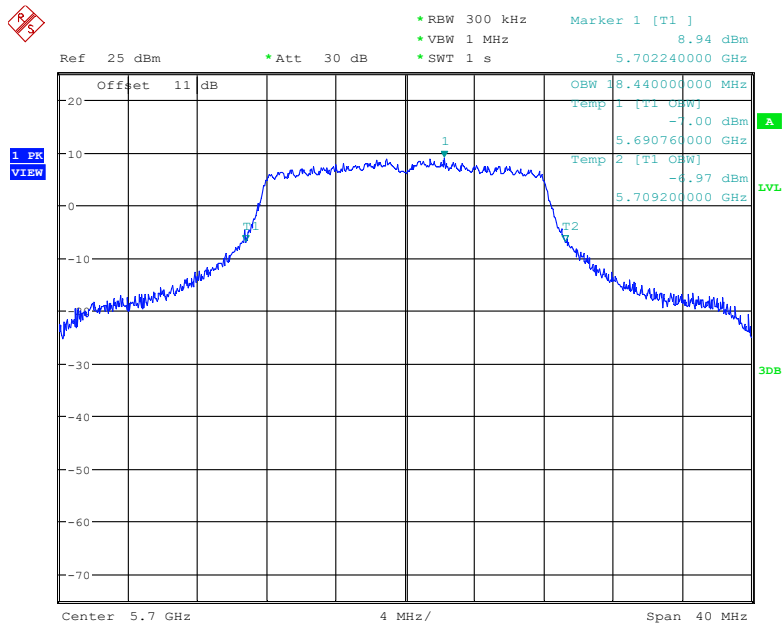
Date: 3.MAR.2023 23:26:39

802.11a mode, 5580 MHz



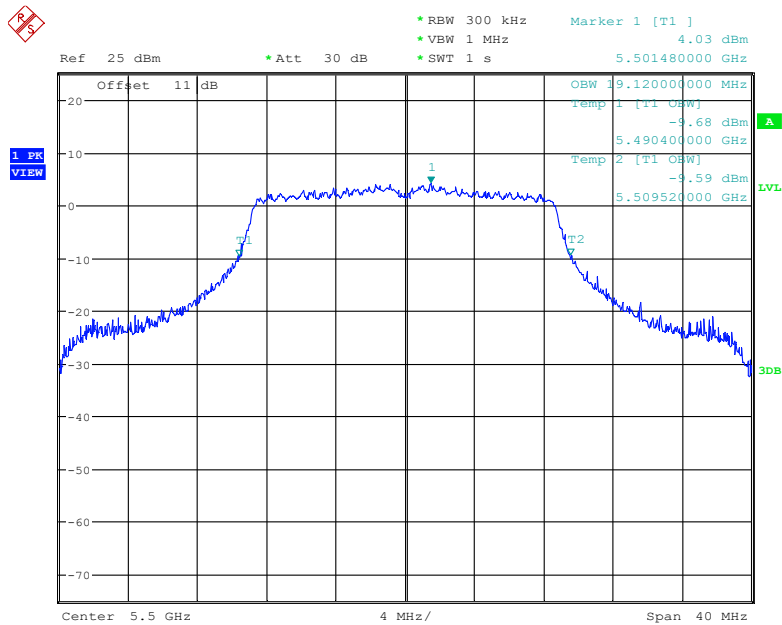
Date: 3.MAR.2023 23:29:39

802.11n20 mode, 5700 MHz



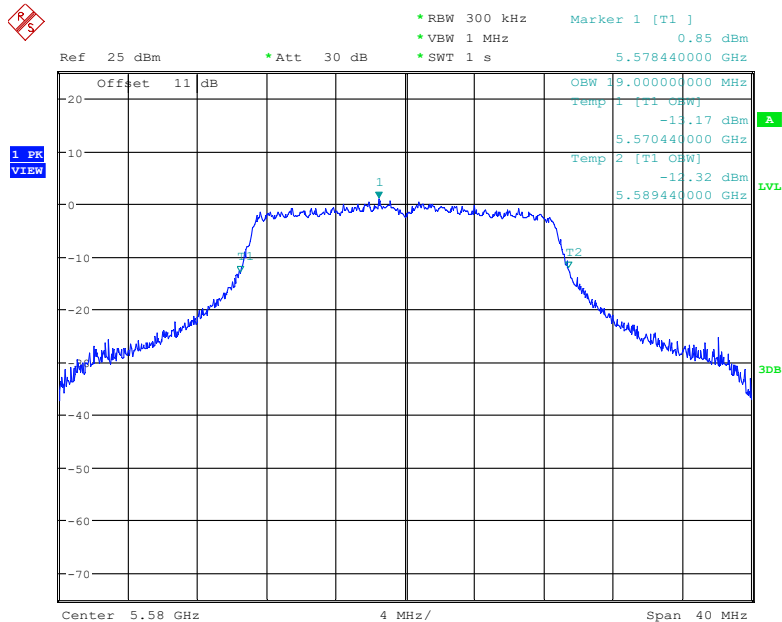
Date: 3.MAR.2023 23:33:34

802.11n20 mode, 5500 MHz



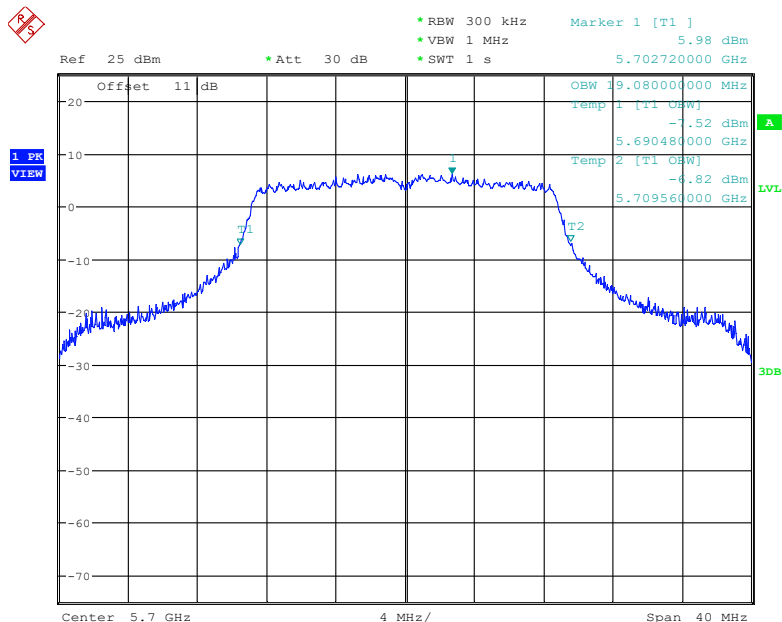
Date: 4.MAR.2023 00:15:23

802.11n20 mode, 5580 MHz



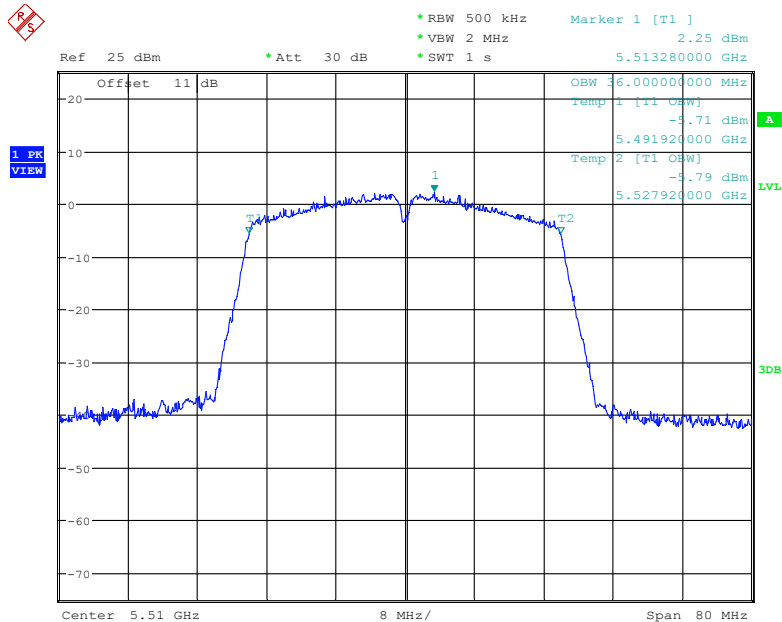
Date: 4.MAR.2023 00:19:22

802.11n20 mode, 5700 MHz



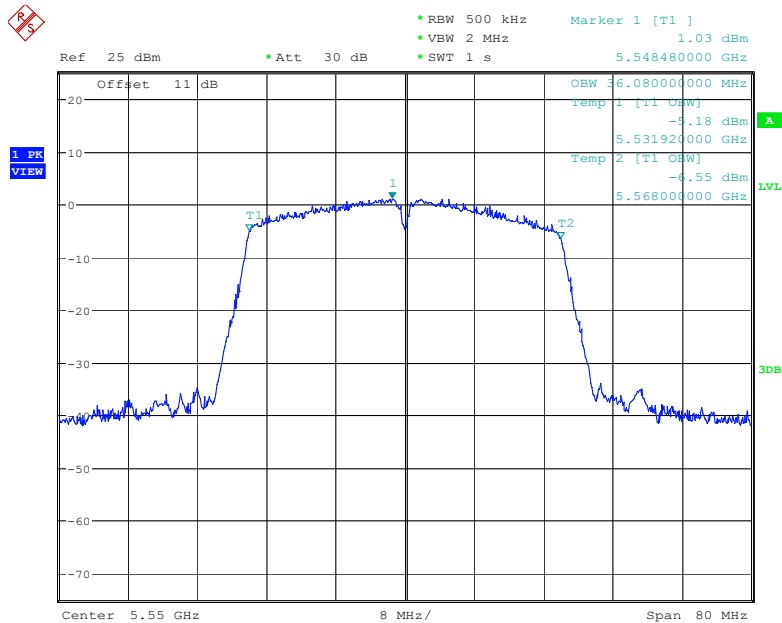
Date: 4.MAR.2023 00:22:32

802.11n40 mode, 5510 MHz



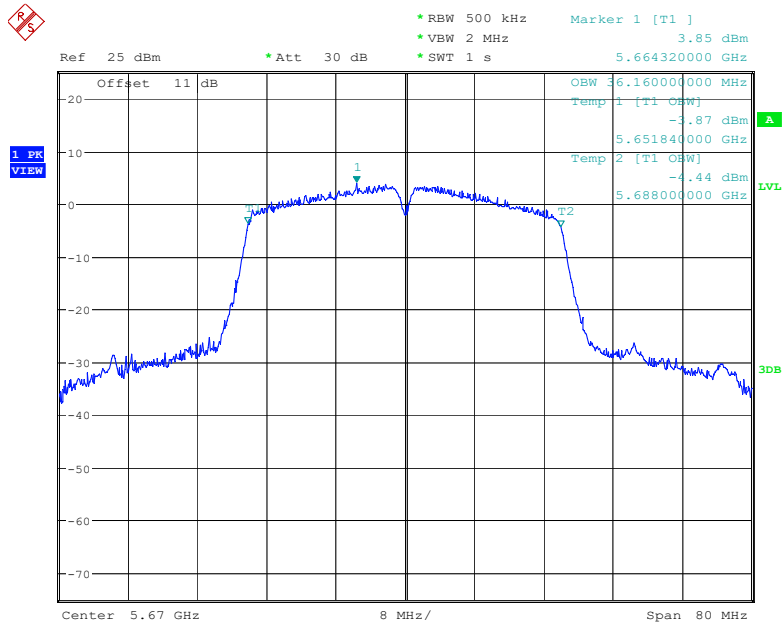
Date: 4.MAR.2023 00:50:57

802.11n40 mode, 5550 MHz



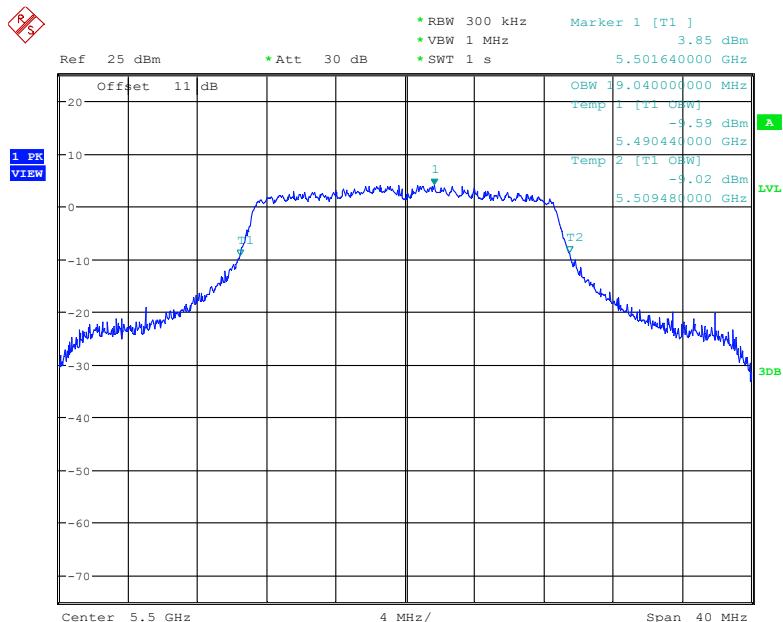
Date: 6.MAR.2023 20:57:12

802.11 n40 mode, 5670 MHz



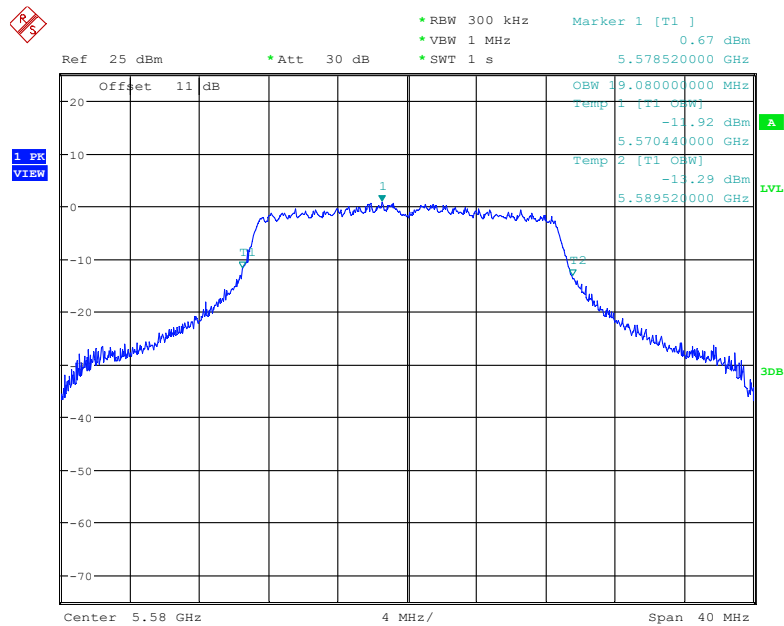
Date: 6.MAR.2023 20:59:45

802.11ac20 mode, 5500 MHz



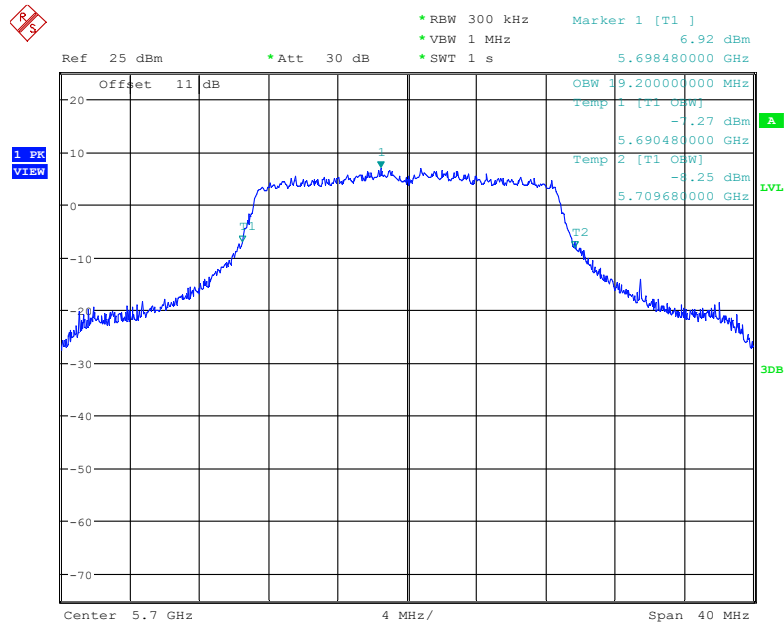
Date: 3.MAR.2023 23:41:36

802.11ac20 mode, 5580 MHz



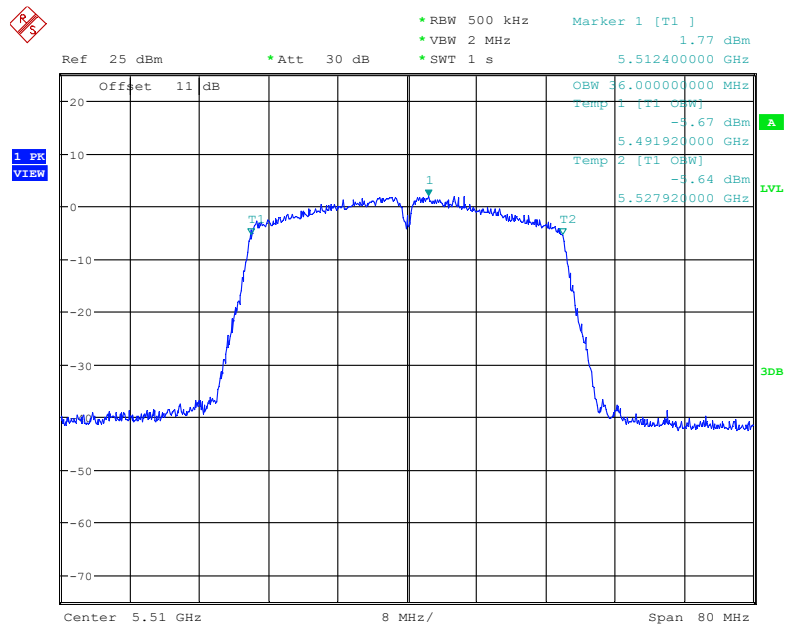
Date: 3.MAR.2023 23:45:39

802.11ac20 mode, 5700 MHz



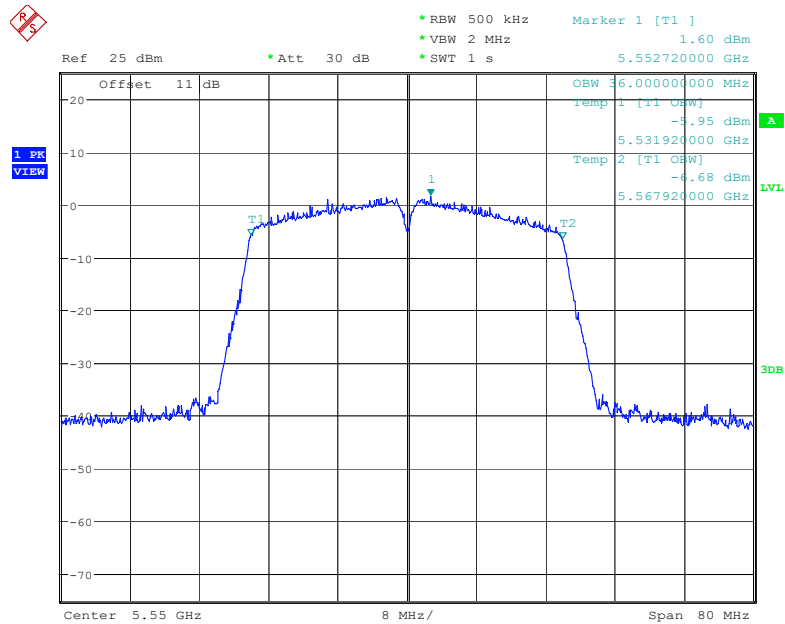
Date: 3.MAR.2023 23:50:22

802.11ac40 mode, 5510 MHz



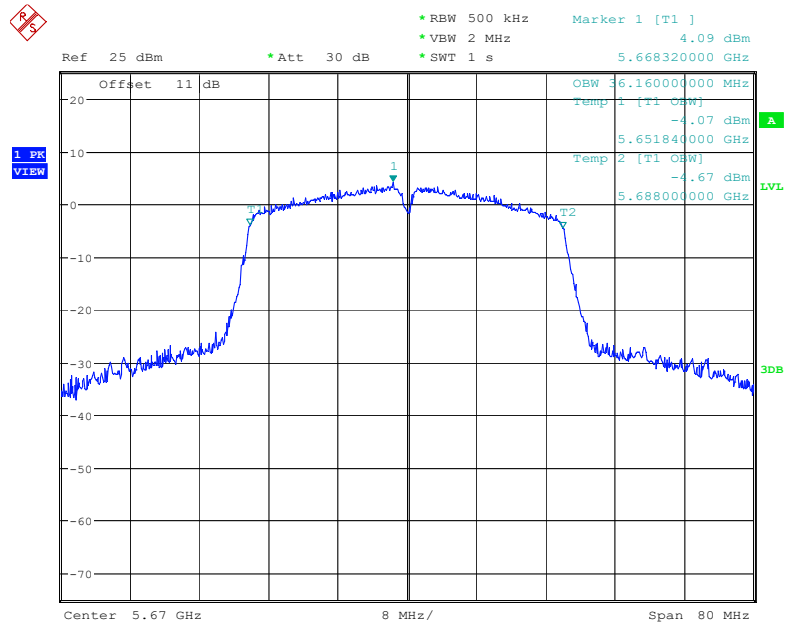
Date: 4.MAR.2023 00:30:12

802.11ac40 mode, 5550 MHz



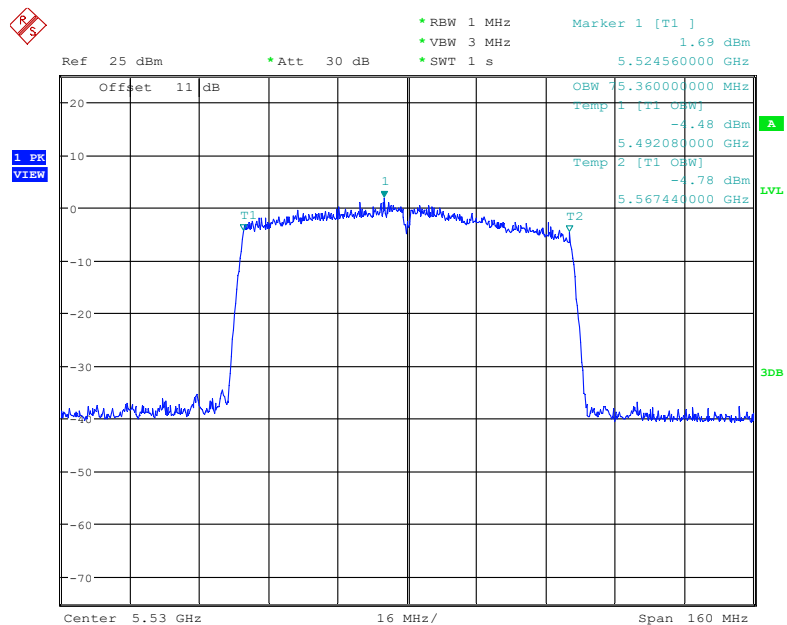
Date: 6.MAR.2023 20:54:05

802.11ac40 mode, 5670 MHz



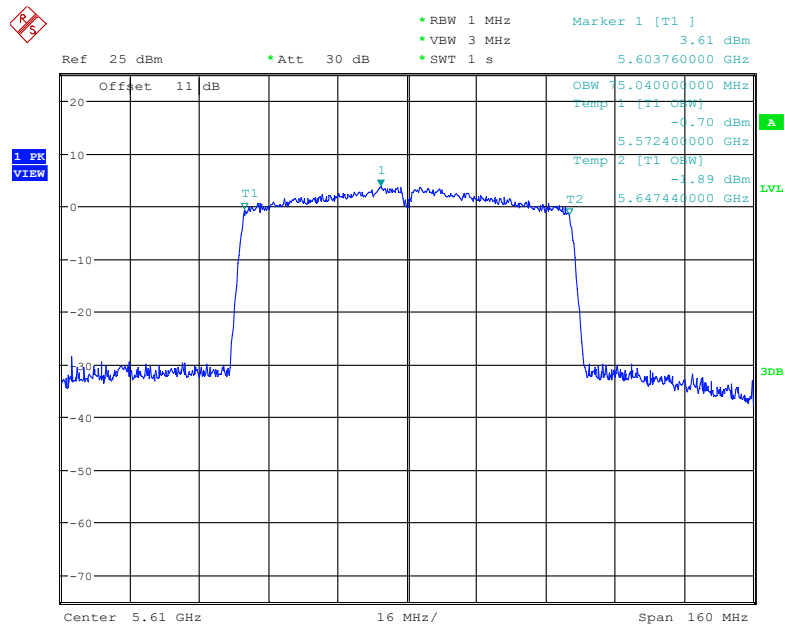
Date: 6.MAR.2023 20:51:37

802.11ac80 mode, 5530 MHz



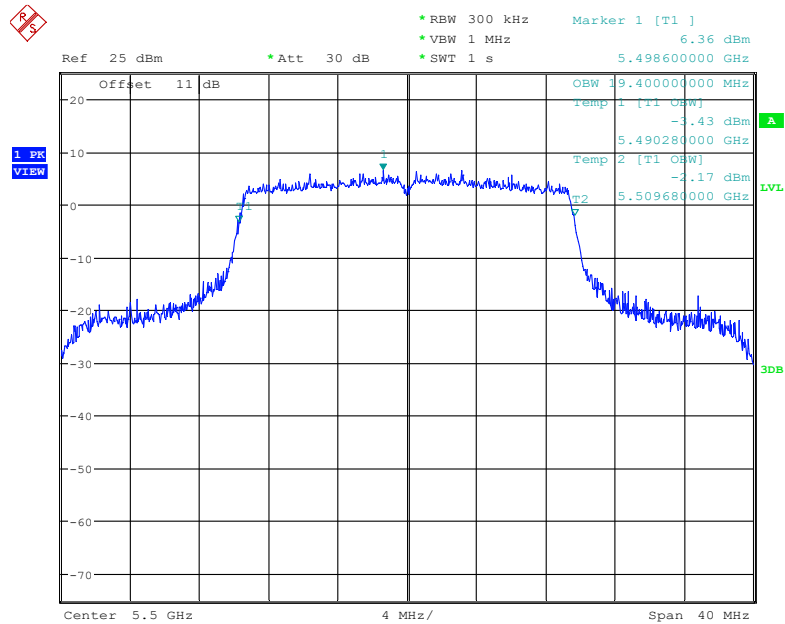
Date: 5.MAR.2023 10:07:46

802.11ac80 mode, 5610 MHz



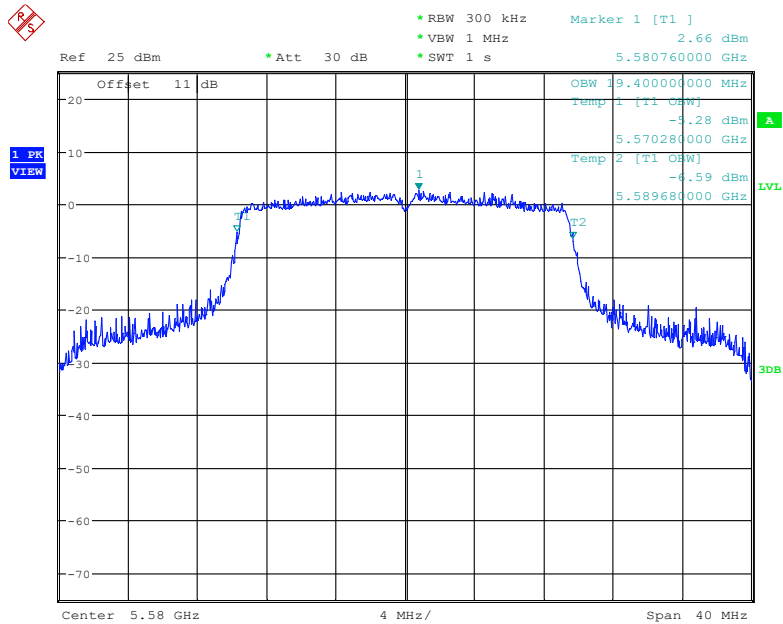
Date: 3.APR.2023 15:07:14

802.11ax20 mode, 5500 MHz



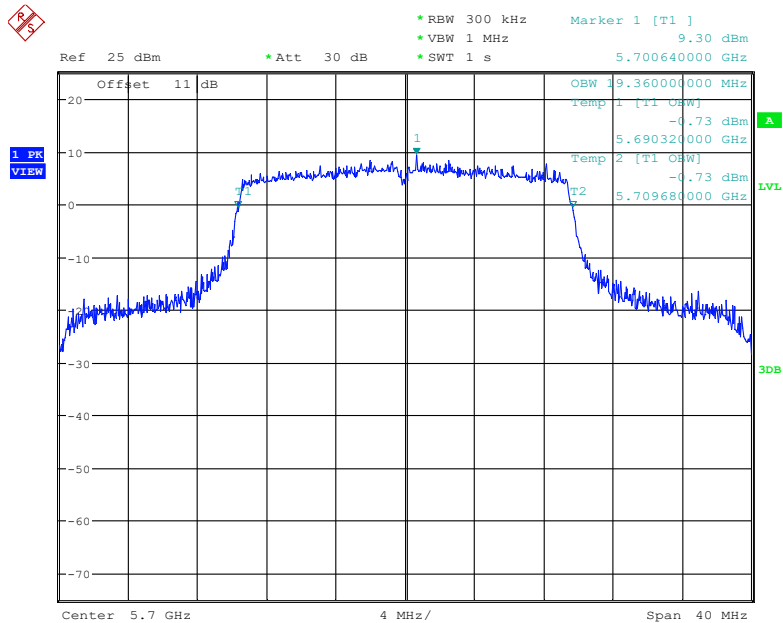
Date: 3.MAR.2023 23:57:55

802.11ax20 mode, 5580 MHz



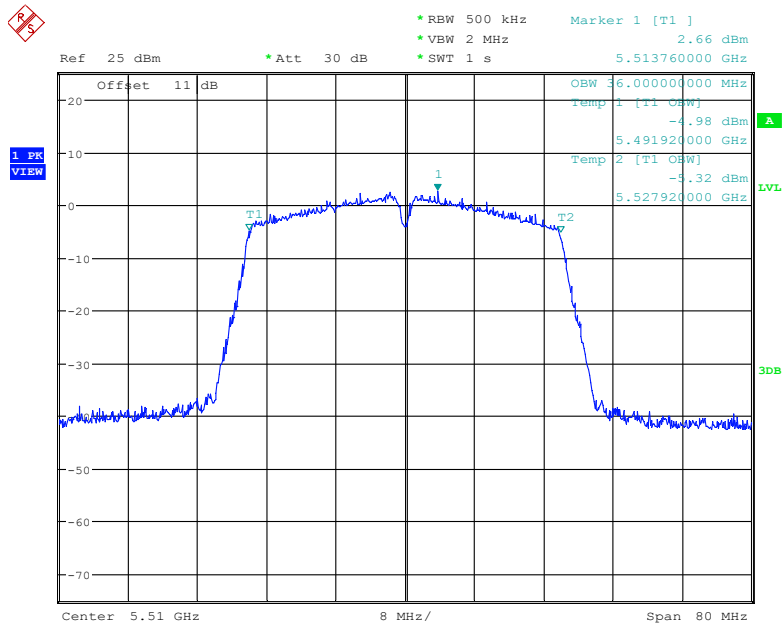
Date: 4.MAR.2023 00:04:12

802.11ax20 mode, 5700 MHz



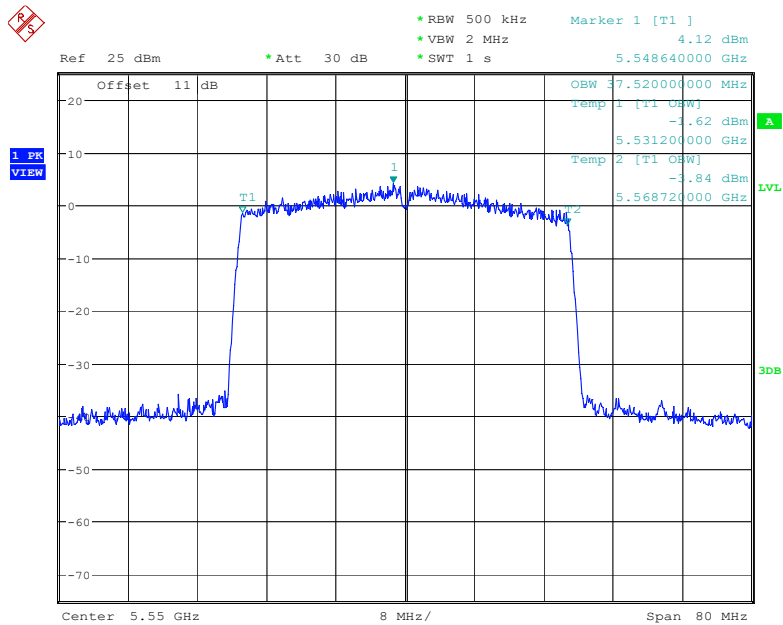
Date: 4.MAR.2023 00:09:09

802.11ax40 mode, 5510 MHz



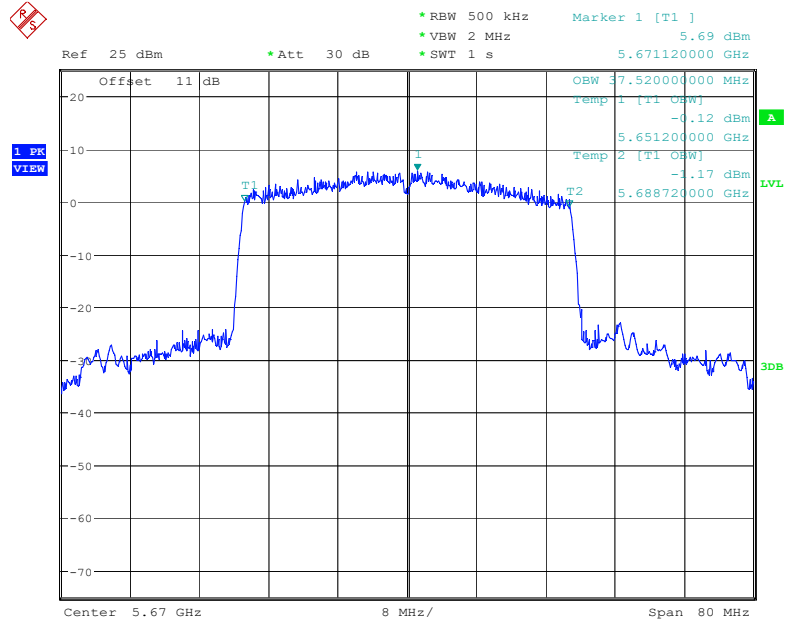
Date: 4.MAR.2023 00:39:32

802.11ax40 mode, 5550 MHz



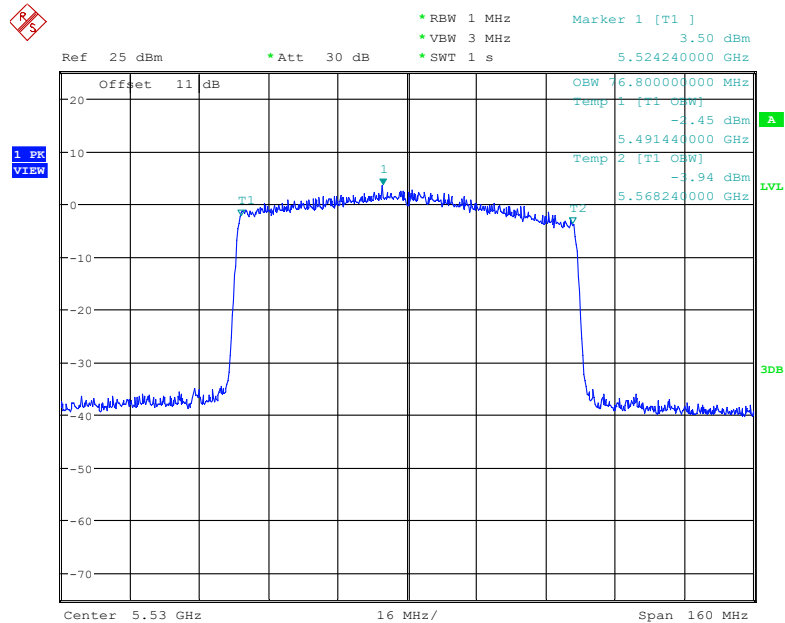
Date: 6.MAR.2023 20:43:49

802.11ax40 mode, 5670 MHz



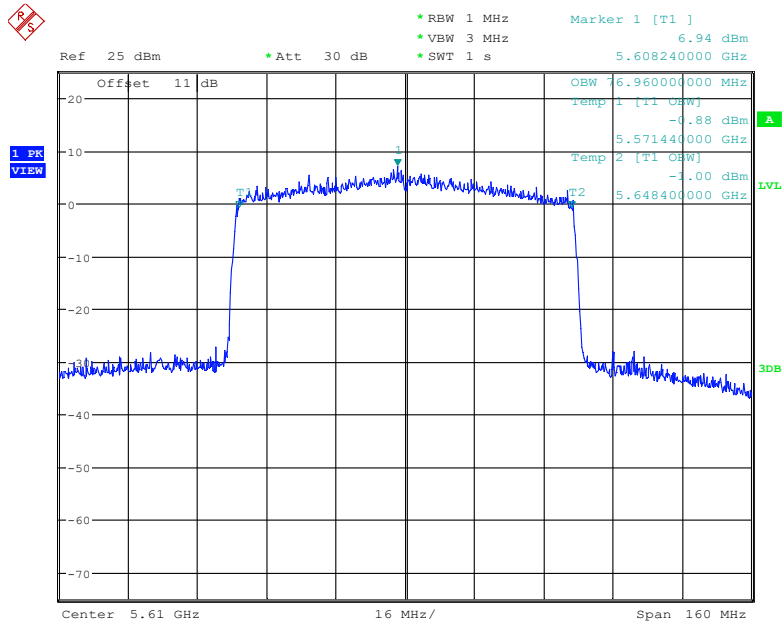
Date: 6.MAR.2023 20:49:15

802.11ax80 mode, 5530 MHz



Date: 5.MAR.2023 10:39:18

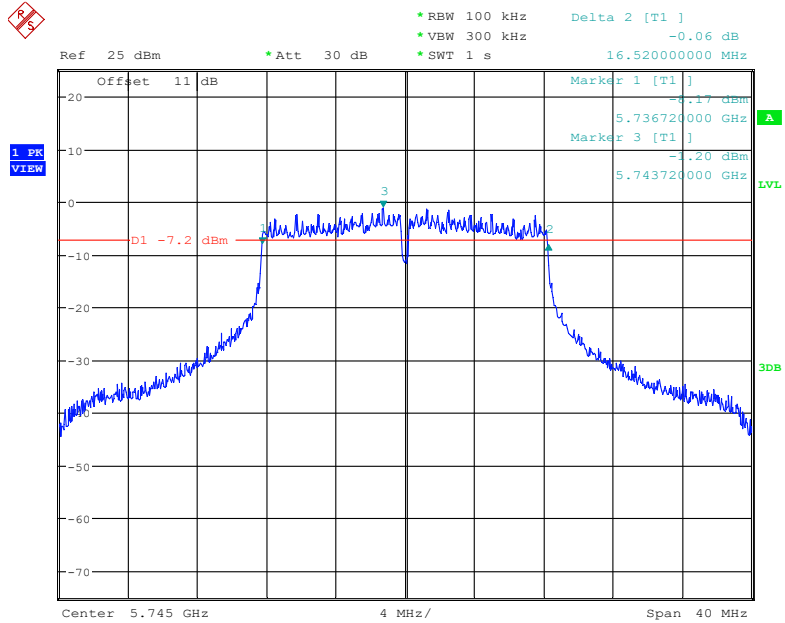
802.11ax80 mode, 5610 MHz



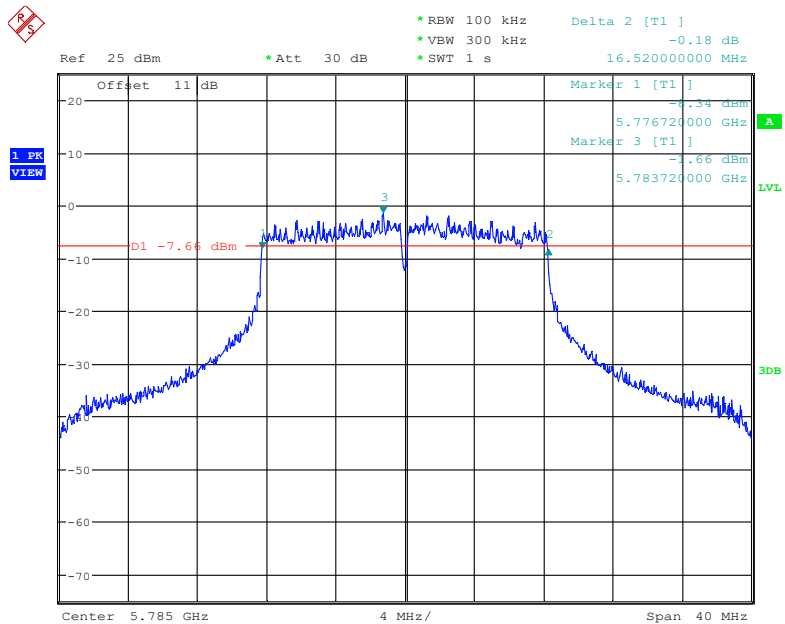
Date: 3.APR.2023 15:04:32

5725 MHz – 5850 MHz:

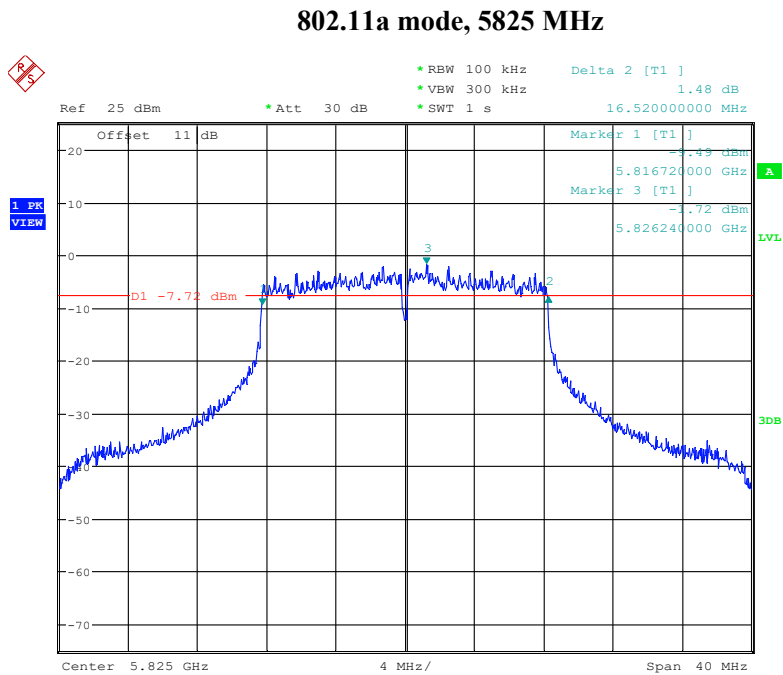
Frequency (MHz)	Antenna Port	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Remark
802.11a					No transmitted signal in the 99% bandwidth extends into the U-NII-2A band
5745	Ant1	16.52	17.24	0.5	
5785	Ant1	16.52	17.24	0.5	
5825	Ant1	16.52	17.24	0.5	
802.11n20					
5745	Ant1	17.72	18.32	0.5	
5785	Ant1	17.72	18.32	0.5	
5825	Ant1	17.72	18.32	0.5	
802.11n40					
5755	Ant1	35.20	35.92	0.5	
5795	Ant1	35.20	36.00	0.5	
802.11ac20					
5745	Ant1	17.72	18.28	0.5	
5785	Ant1	17.72	18.28	0.5	
5825	Ant1	17.72	18.32	0.5	
802.11ac40					
5755	Ant1	35.20	35.92	0.5	
5795	Ant1	35.20	36.00	0.5	
11ac80					
5775	Ant1	75.36	75.36	0.5	
802.11ax20					
5745	Ant1	19.16	19.32	0.5	
5785	Ant1	19.12	19.32	0.5	
5825	Ant1	19.12	19.36	0.5	
802.11ax40					
5755	Ant1	37.20	37.60	0.5	
5795	Ant1	35.44	37.60	0.5	
802.11ax80					
5745	Ant1	76.08	76.96	0.5	

6dB Bandwidth:**802.11a mode, 5745 MHz**

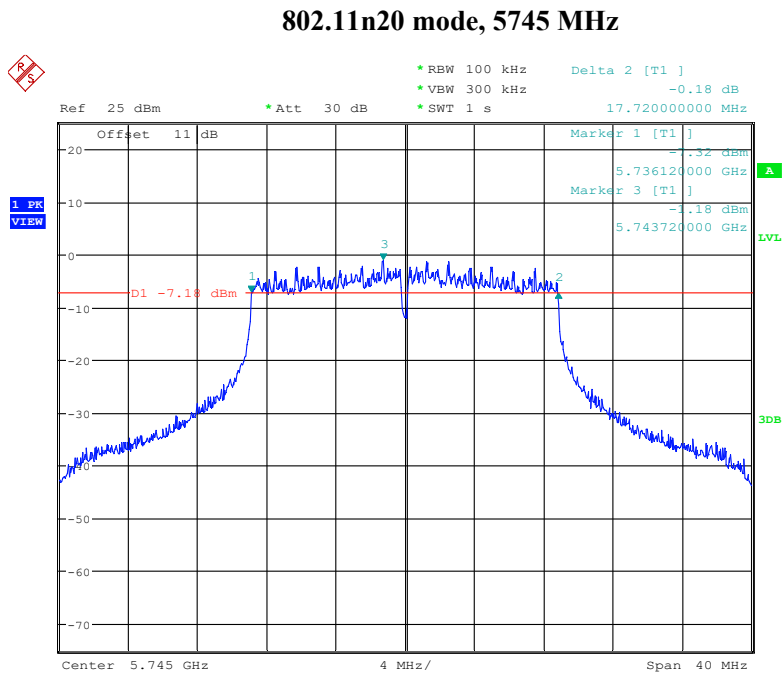
Date: 5.MAR.2023 11:07:24

802.11a mode, 5785 MHz

Date: 5.MAR.2023 11:03:57

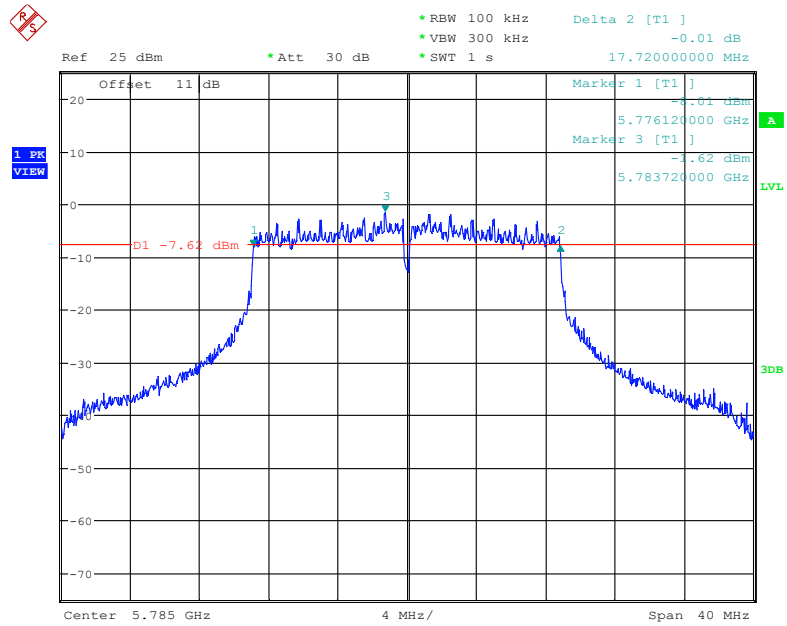


Date: 5.MAR.2023 11:00:59



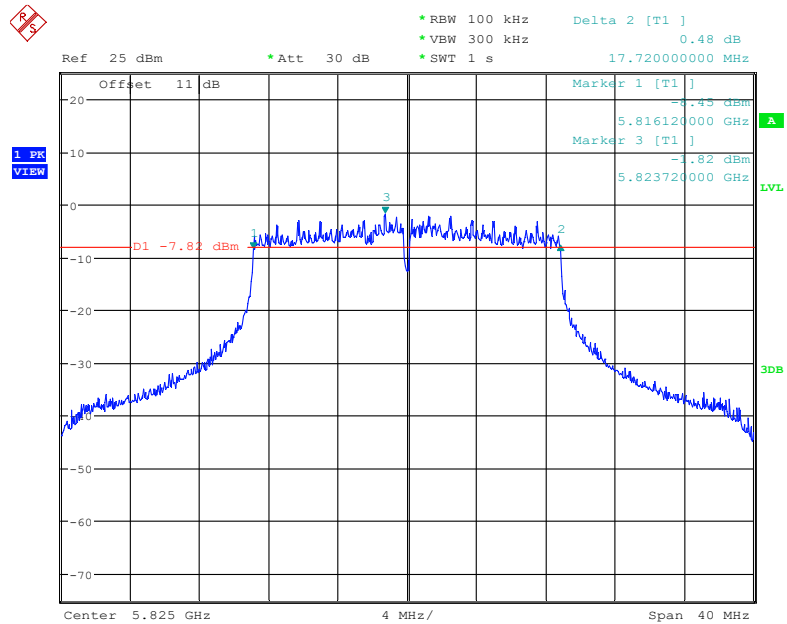
Date: 5.MAR.2023 11:19:12

802.11n20 mode, 5785 MHz



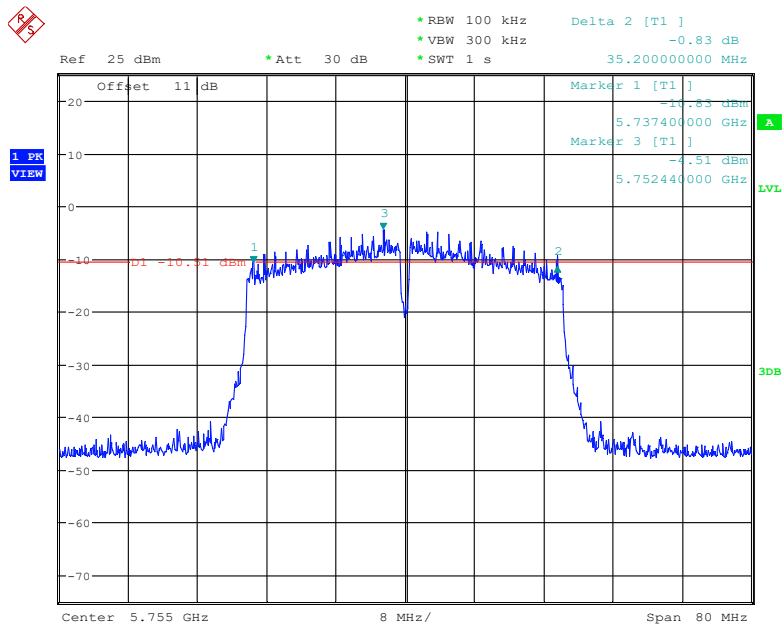
Date: 5.MAR.2023 11:21:44

802.11n20 mode, 5825 MHz



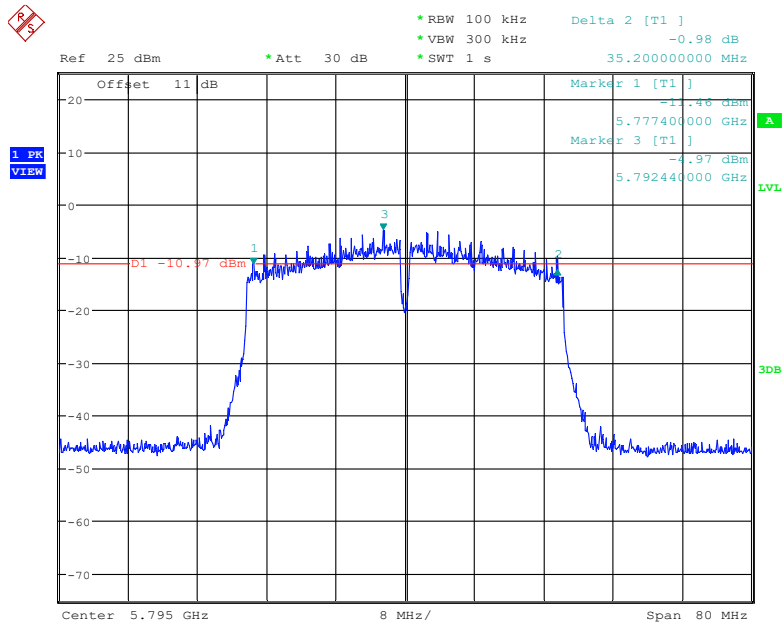
Date: 5.MAR.2023 11:24:55

802.11n40 mode, 5755 MHz



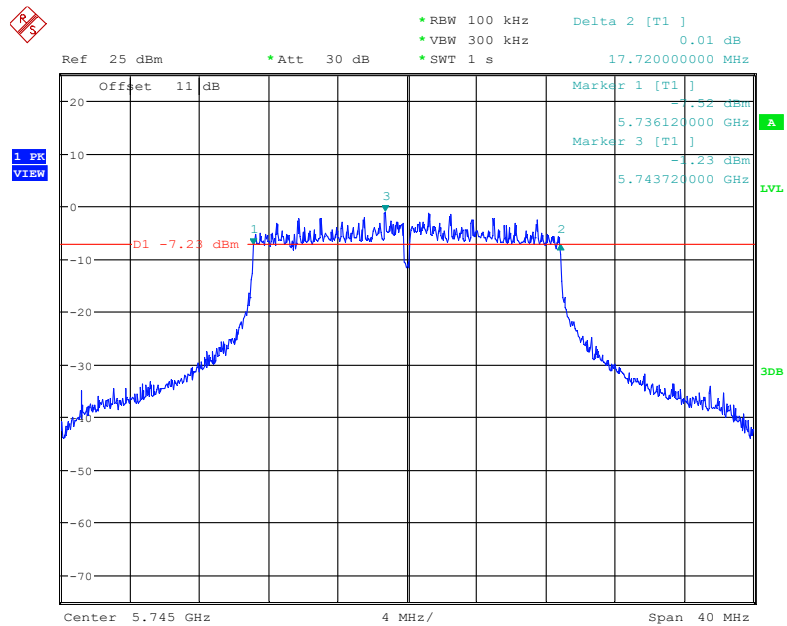
Date: 5.MAR.2023 11:52:09

802.11n40 mode, 5795 MHz



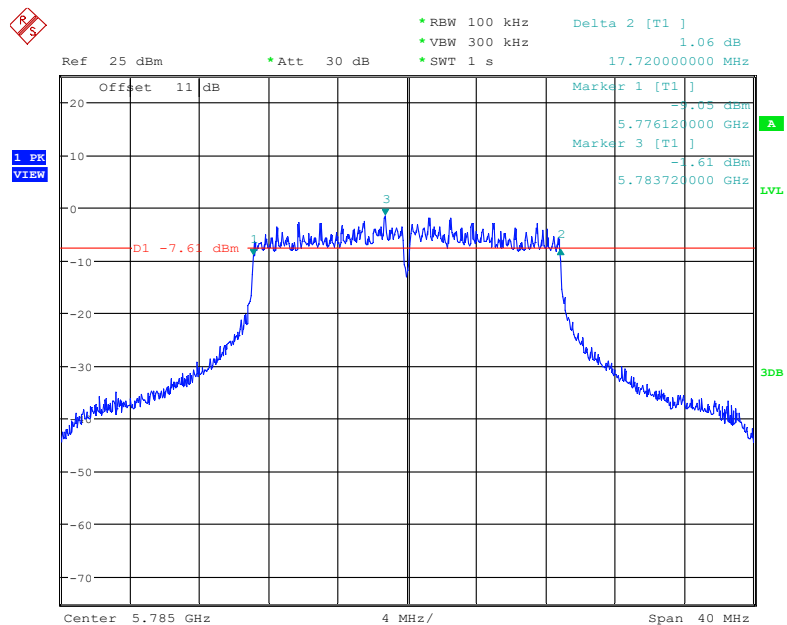
Date: 5.MAR.2023 11:49:51

802.11ac20 mode, 5745 MHz



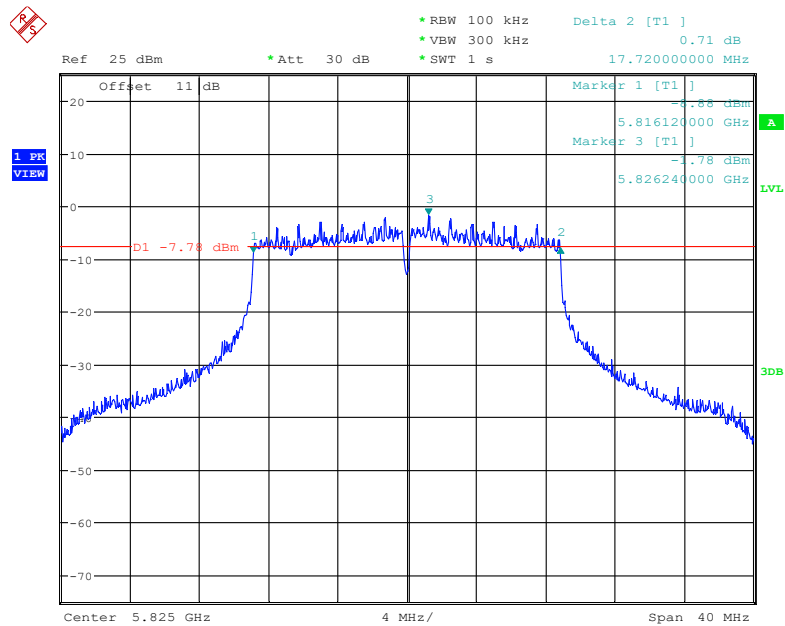
Date: 5.MAR.2023 11:10:47

802.11ac20 mode, 5785 MHz



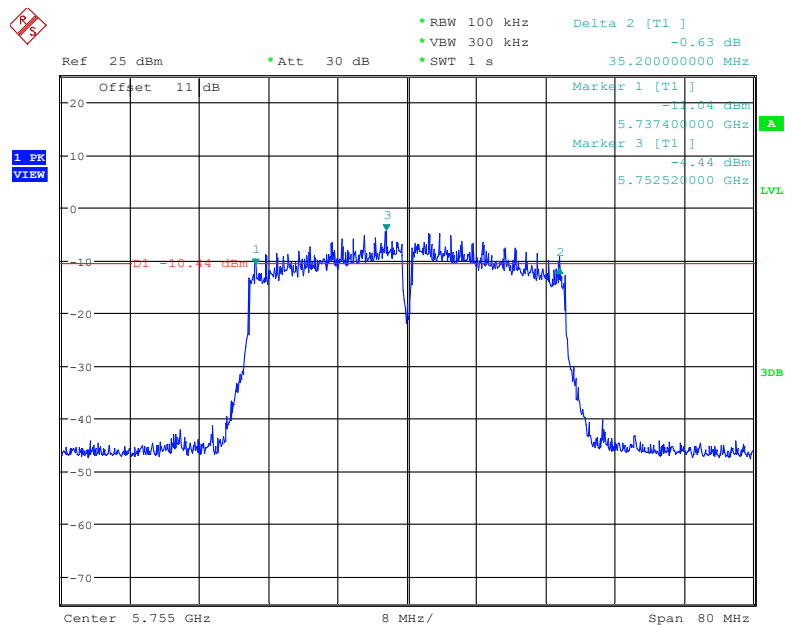
Date: 5.MAR.2023 11:13:20

802.11ac20 mode, 5825 MHz



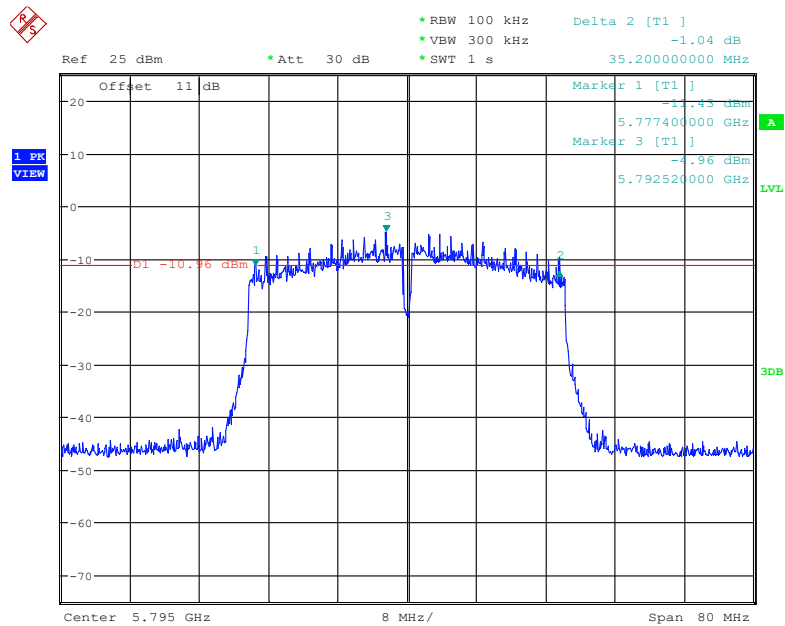
Date: 5.MAR.2023 11:15:56

802.11ac40 mode, 5755 MHz



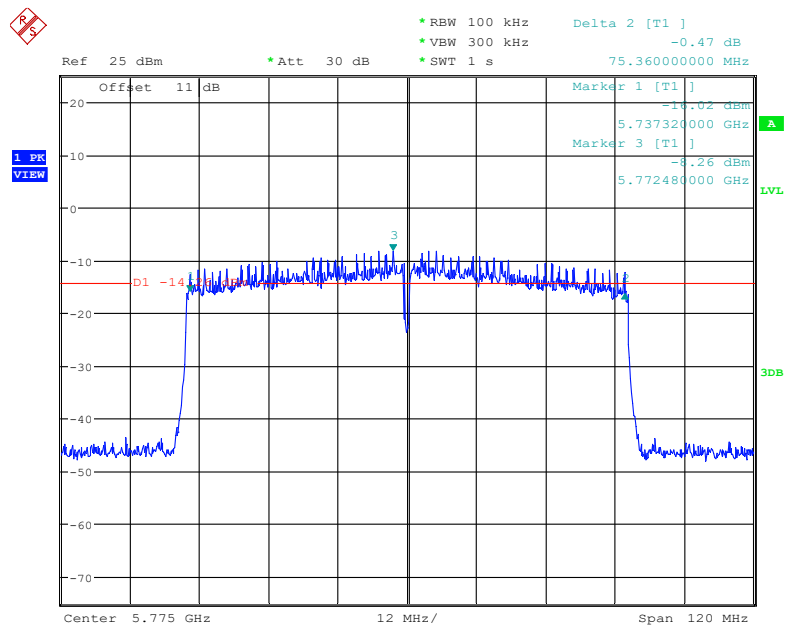
Date: 5.MAR.2023 11:43:52

802.11ac40 mode, 5795 MHz



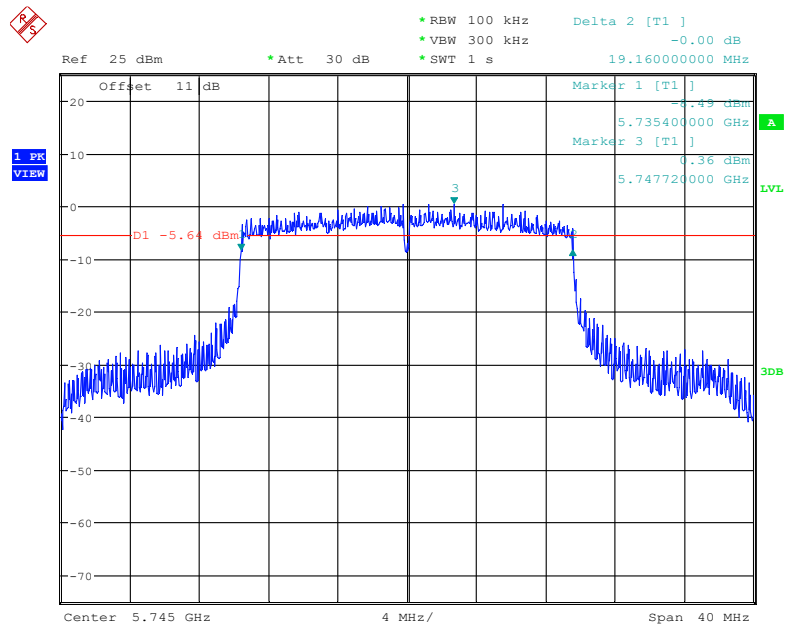
Date: 5.MAR.2023 11:46:57

802.11ac80 mode, 5775 MHz



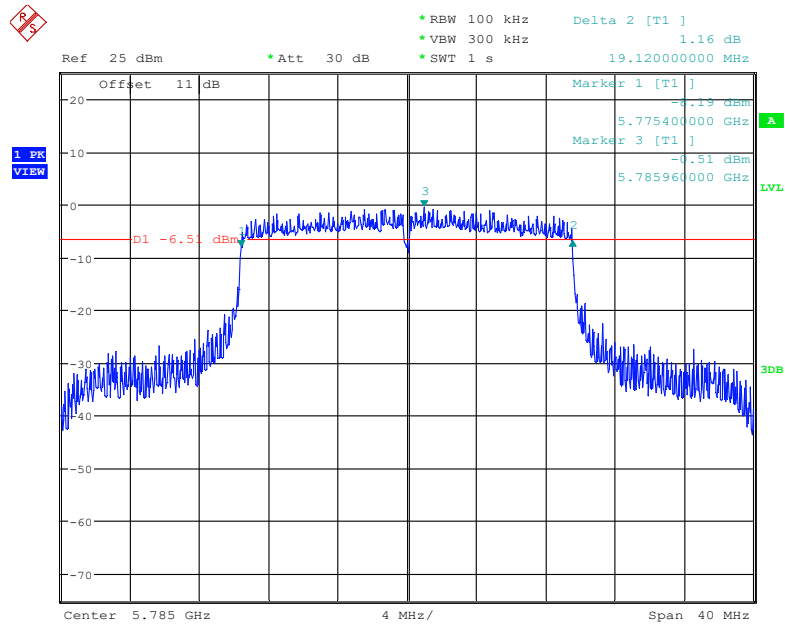
Date: 5.MAR.2023 13:05:20

802.11ax20 mode, 5745 MHz



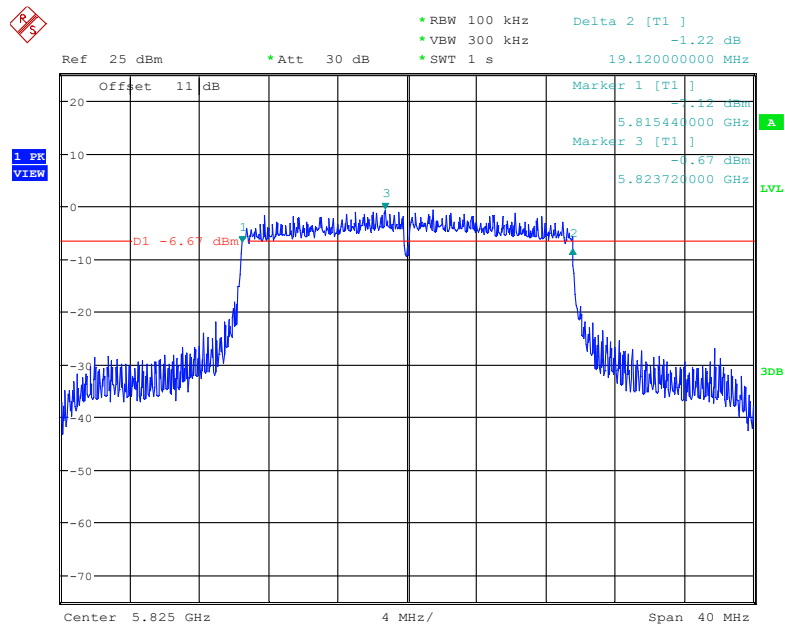
Date: 5.MAR.2023 11:29:56

802.11ax20 mode, 5785 MHz



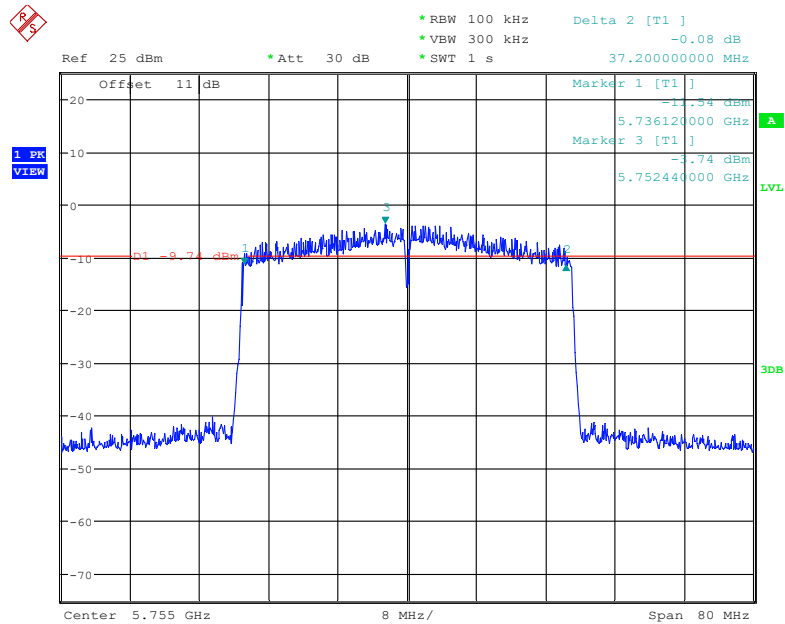
Date: 5.MAR.2023 11:34:04

802.11ax20 mode, 5825 MHz



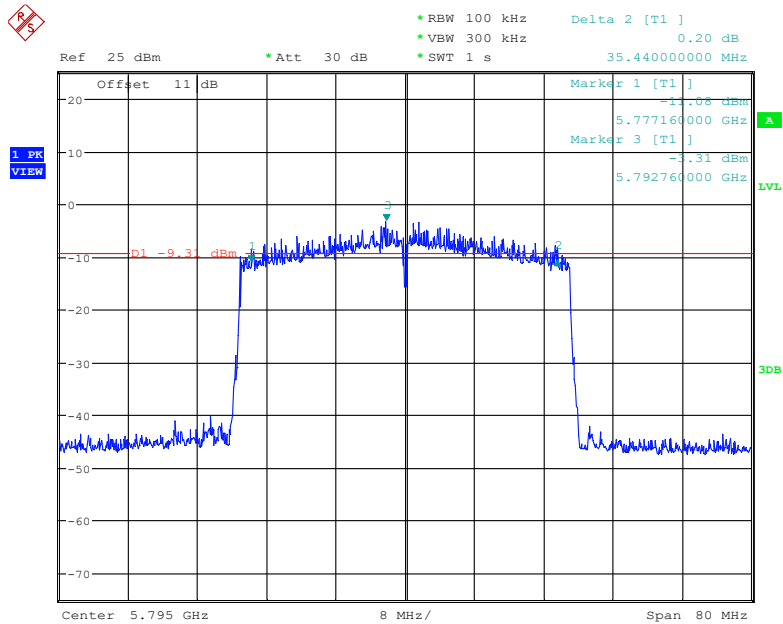
Date: 5.MAR.2023 11:37:39

802.11ax40 mode, 5755 MHz



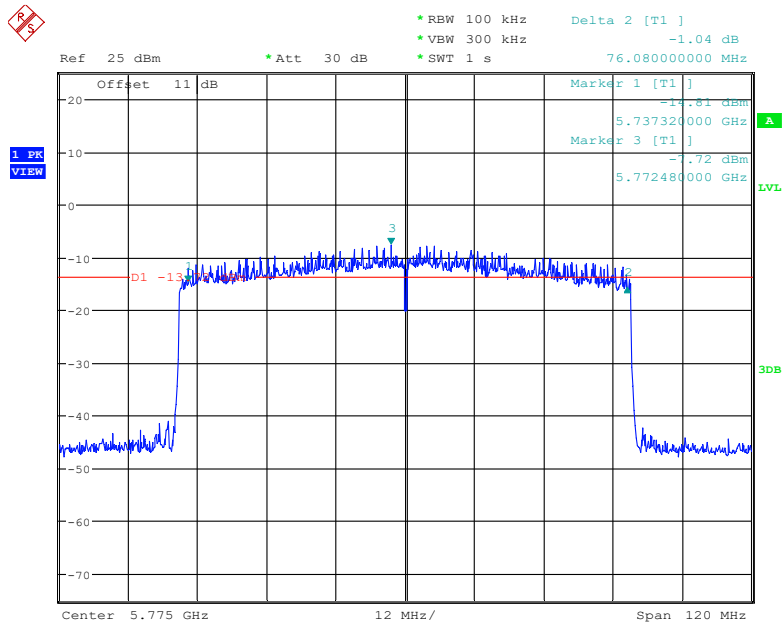
Date: 5.MAR.2023 11:55:40

802.11ax40 mode, 5795 MHz

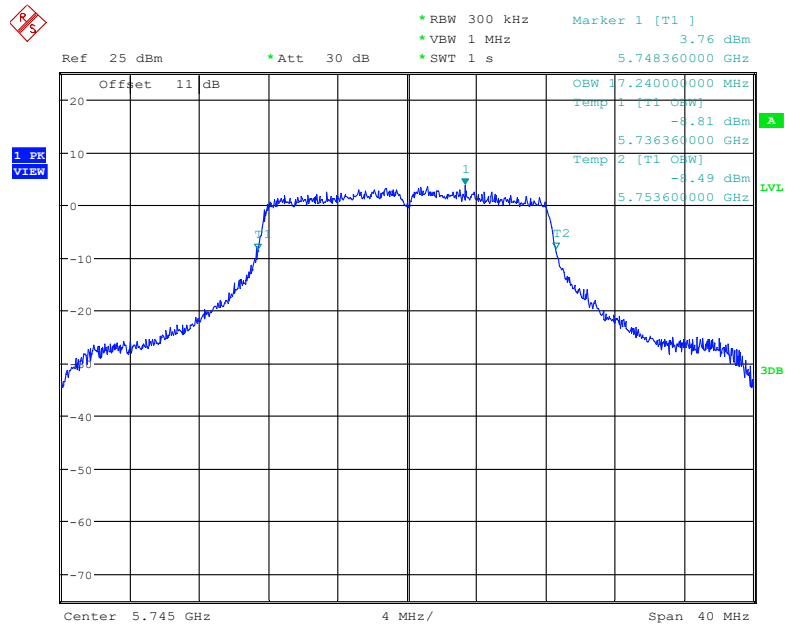


Date: 5.MAR.2023 11:58:12

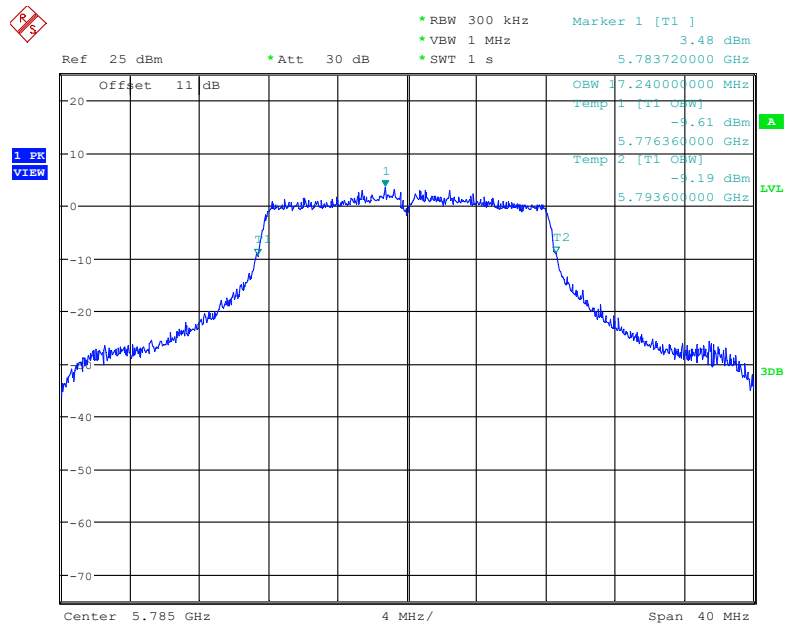
802.11ax80 mode, 5775 MHz



Date: 5.MAR.2023 12:00:47

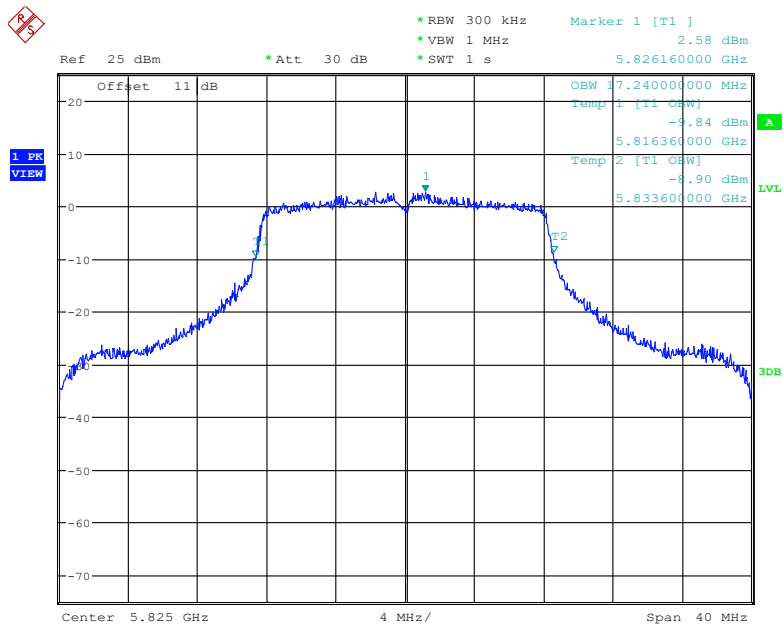
99% Bandwidth:**802.11a mode, 5745 MHz**

Date: 5.MAR.2023 11:06:50

802.11a mode, 5785 MHz

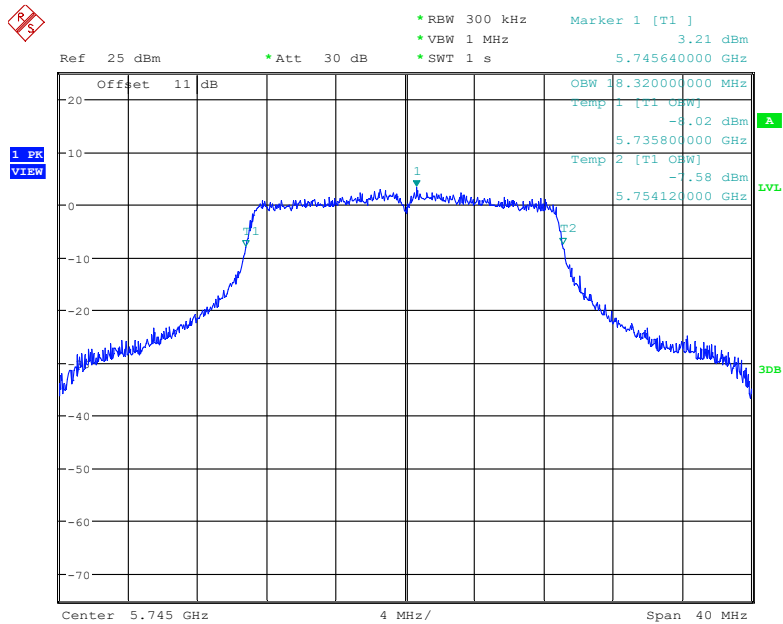
Date: 5.MAR.2023 11:03:11

802.11a mode, 5825 MHz

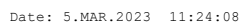
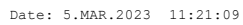


Date: 5.MAR.2023 11:00:13

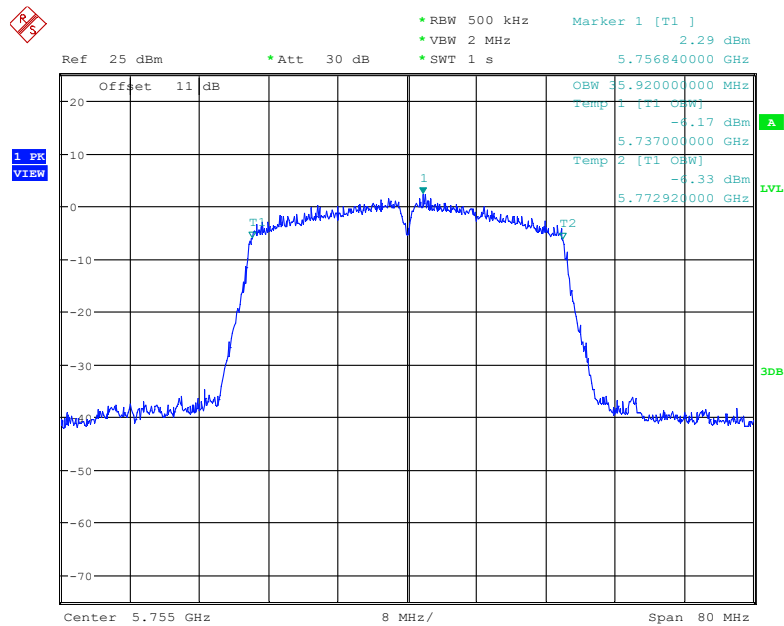
802.11n20 mode, 5745 MHz



Date: 5.MAR.2023 11:18:38

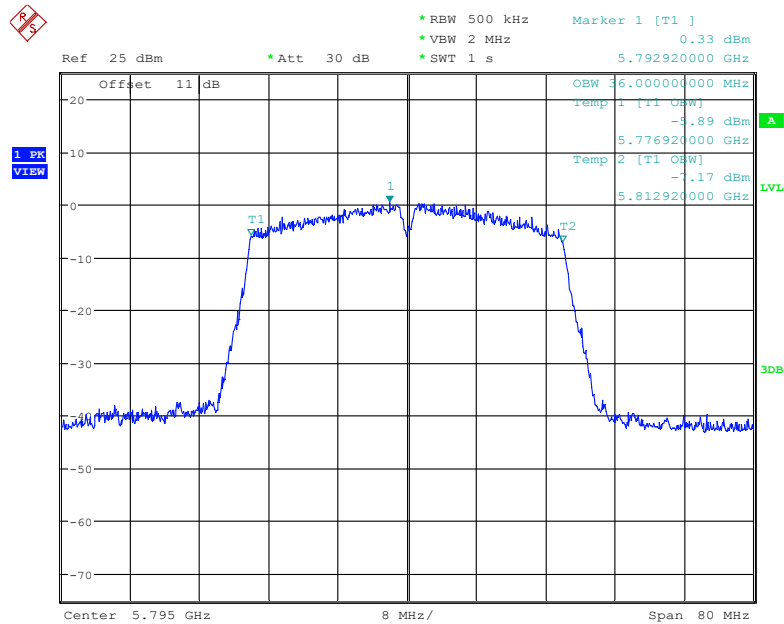


802.11n40 mode, 5755 MHz



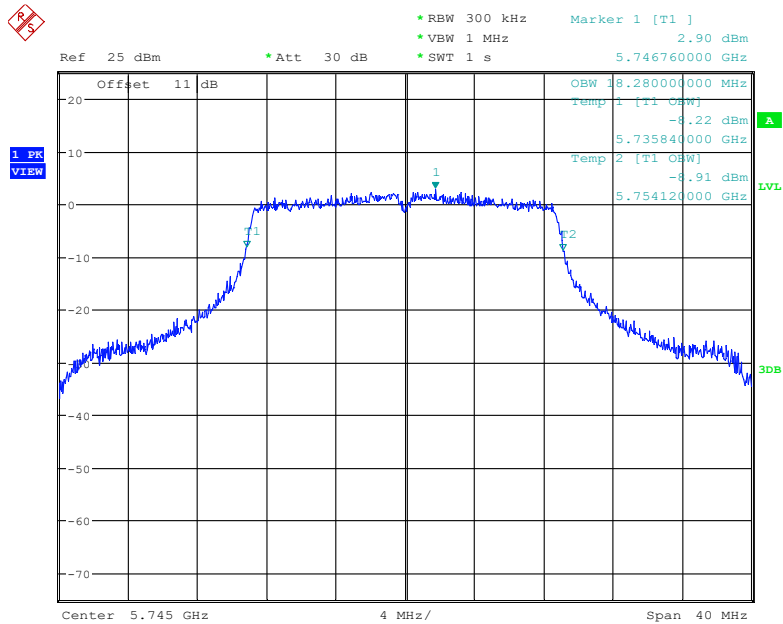
Date: 5.MAR.2023 11:51:46

802.11n40 mode, 5795 MHz



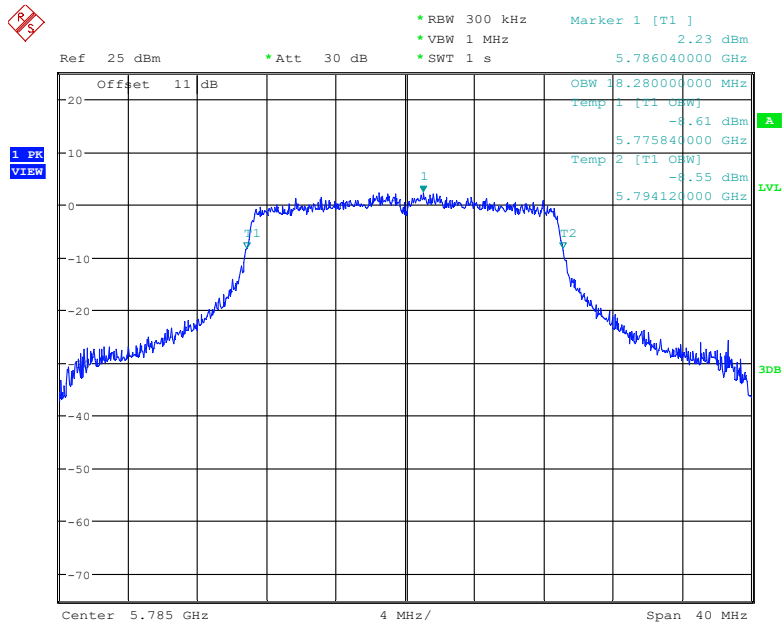
Date: 5.MAR.2023 11:49:17

802.11ac20 mode, 5745 MHz



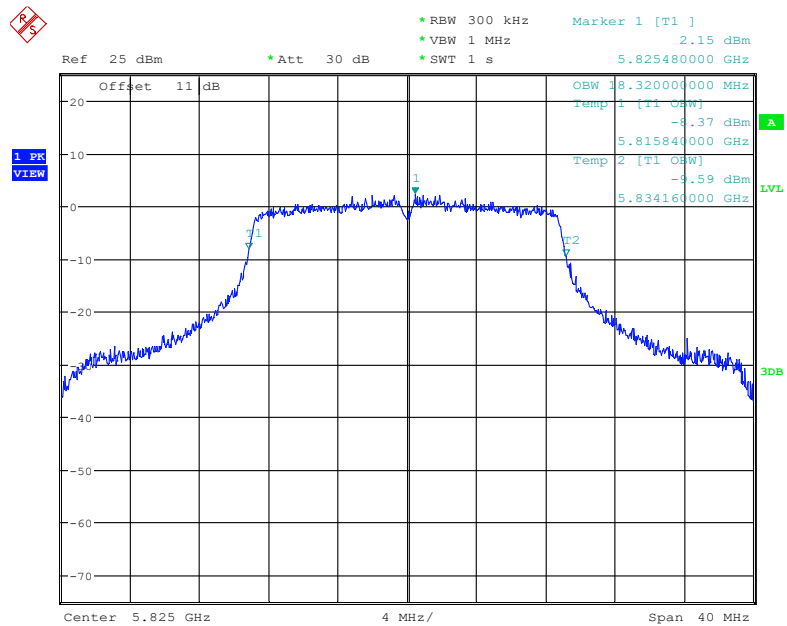
Date: 5.MAR.2023 11:10:13

802.11ac20 mode, 5785 MHz



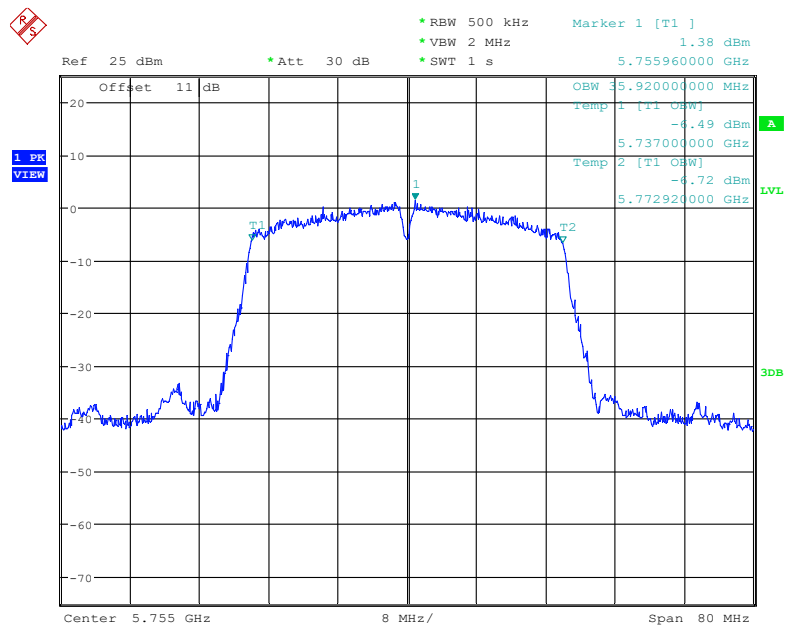
Date: 5.MAR.2023 11:12:46

802.11ac20 mode, 5825 MHz



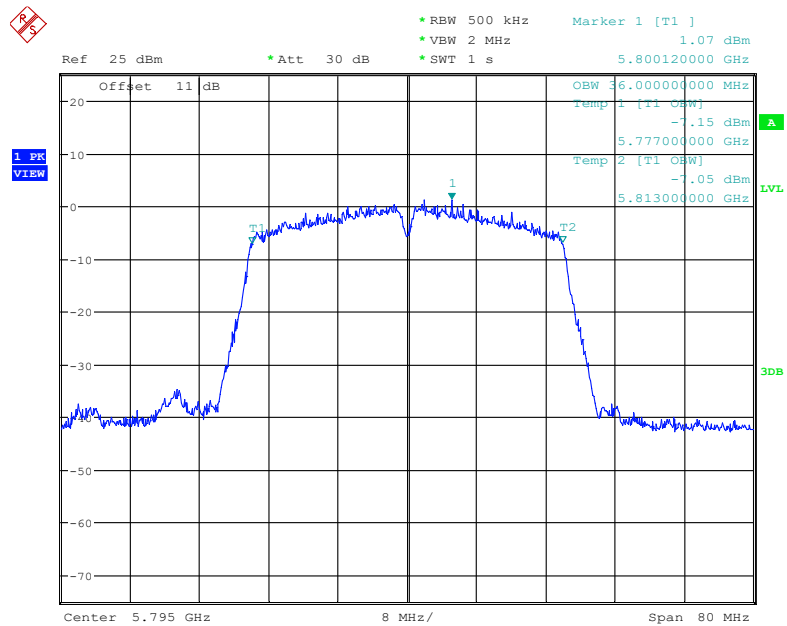
Date: 5.MAR.2023 11:15:22

802.11ac40 mode, 5755 MHz



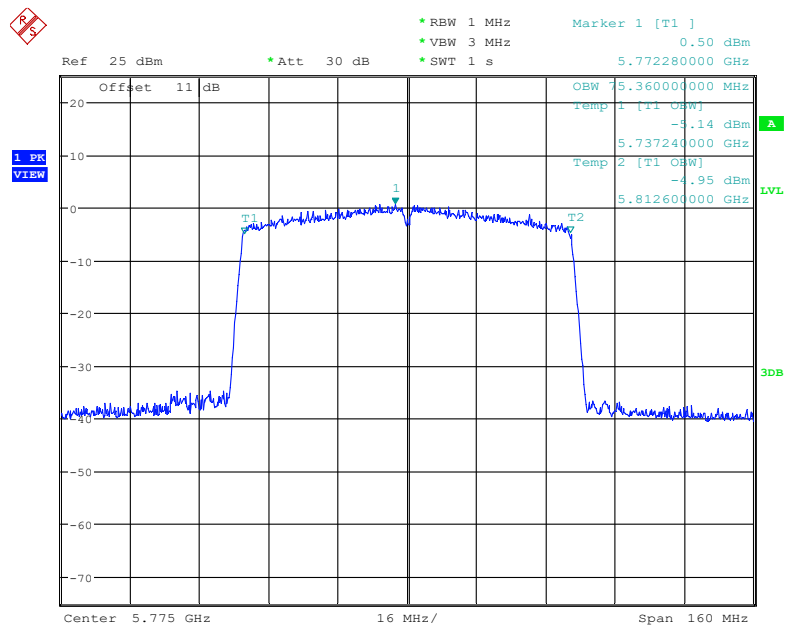
Date: 5.MAR.2023 11:43:17

802.11ac40 mode, 5795 MHz



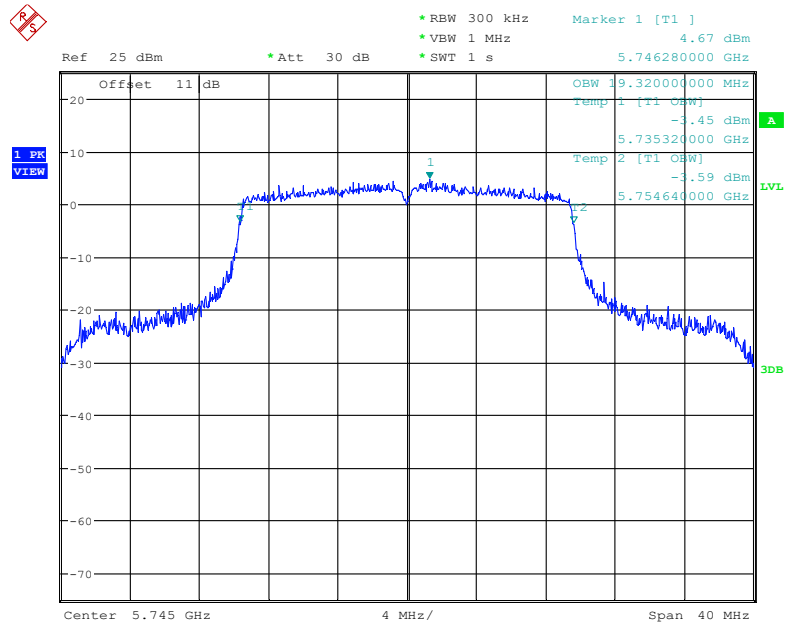
Date: 5.MAR.2023 11:46:24

802.11ac80 mode, 5775 MHz



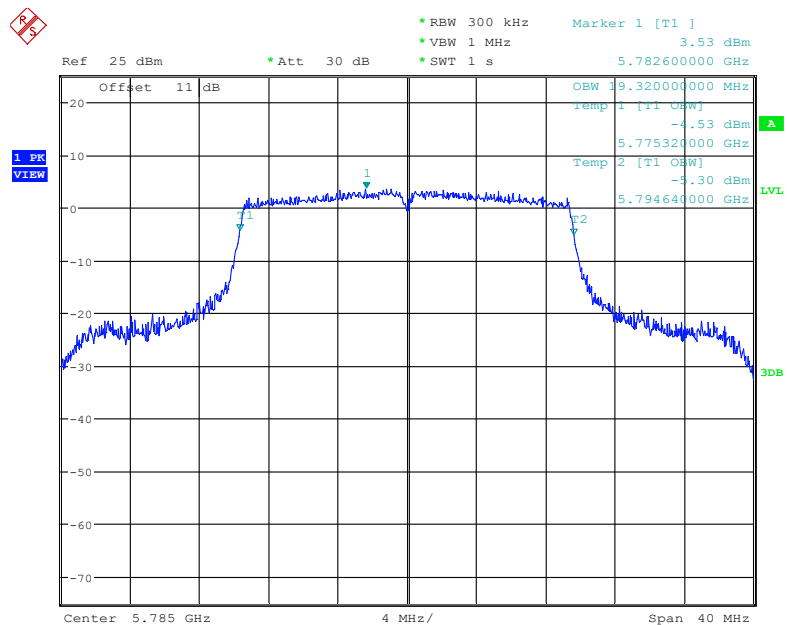
Date: 5.MAR.2023 13:04:46

802.11ax20 mode, 5745 MHz



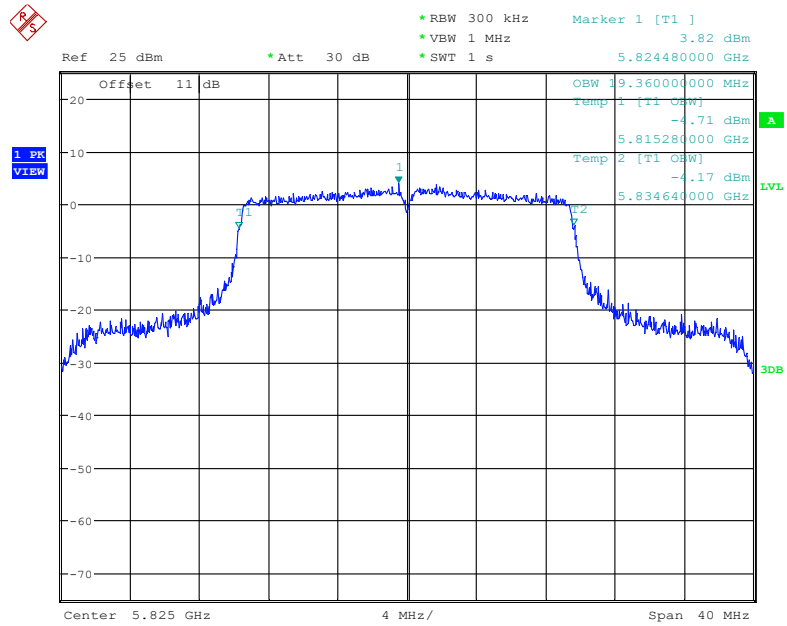
Date: 5.MAR.2023 11:28:45

802.11ax20 mode, 5785 MHz



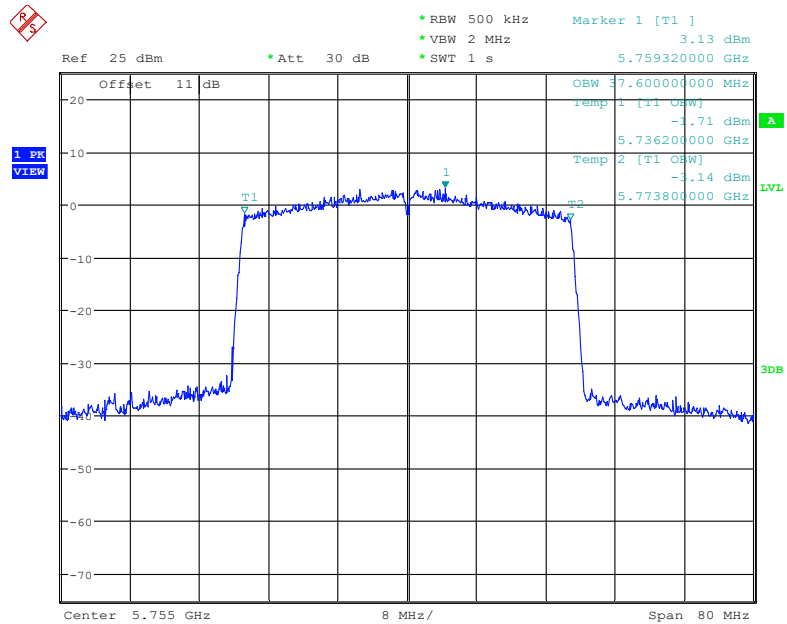
Date: 5.MAR.2023 11:33:05

802.11ax20 mode, 5825 MHz



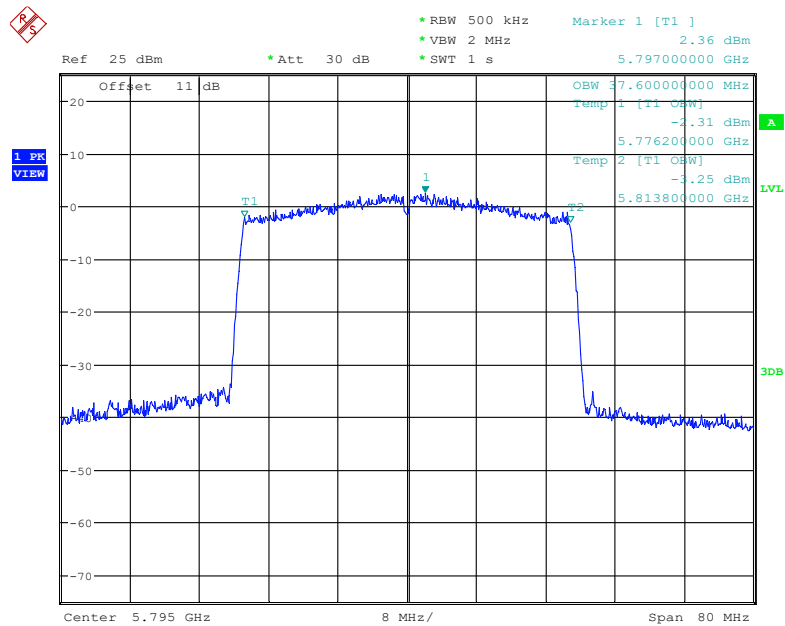
Date: 5.MAR.2023 11:36:41

802.11ax40 mode, 5755 MHz



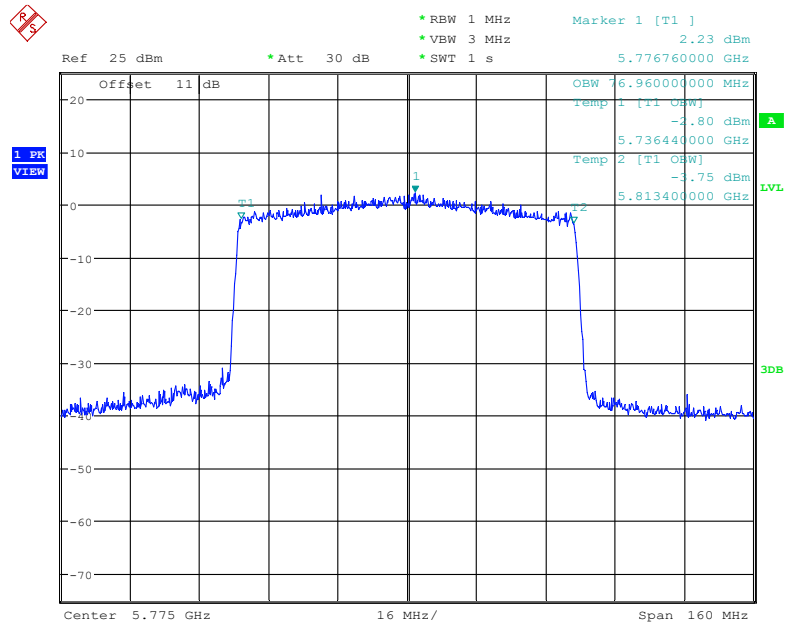
Date: 5.MAR.2023 11:54:53

802.11ax40 mode, 5795 MHz



Date: 5.MAR.2023 11:57:39

802.11ax80 mode, 5775 MHz



Date: 5.MAR.2023 12:00:13

FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

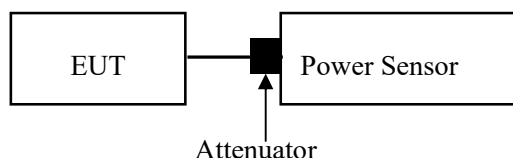
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB789033 D02 section II.E.3.b)

- Place the EUT on a bench and set it in transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- Add a correction factor to the display.



Test Data**Environmental Conditions**

Temperature:	27°C
Relative Humidity:	29%
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling from 2023-03-03 to 2023-03-06.

EUT operation mode: Transmitting

Test Result: Pass. Please refer to the test data as follows:

5150 MHz – 5250 MHz

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
802.11a				
5180	1	12.44	/	24
	2	10.84		
5200	1	12.65	/	
	2	11.72		
5240	1	12.86	/	
	2	12.57		
802.11n20				
5180	1	11.07	15.03	24
	2	12.80		
5200	1	11.37	15.22	
	2	12.91		
5240	1	11.16	15.14	
	2	12.93		
802.11n40				
5190	1	9.99	14.22	24
	2	12.16		
5230	1	10.23	14.45	
	2	12.38		
802.11ac20				
5180	1	11.02	13.78	24
	2	10.51		
5200	1	11.27	14.18	
	2	11.07		
5240	1	11.14	14.35	
	2	11.53		
802.11ac40				
5190	1	9.93	14.18	24
	2	12.13		
5230	1	10.16	14.48	
	2	12.47		
802.11ac80				
5210	1	9.02	13.13	24
	2	11.00		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX20-RU26-0				
5180	1	2.50	5.71	24
	2	2.90		
5200	1	2.76	6.08	
	2	3.35		
5240	1	2.08	5.89	
	2	3.55		
AX20-RU52-37				
5180	1	5.16	8.53	24
	2	5.86		
5200	1	5.83	9.15	
	2	6.42		
5240	1	5.49	8.99	
	2	6.42		
AX20-RU106-53				
5180	1	8.10	11.37	24
	2	8.60		
5200	1	8.48	11.86	
	2	9.19		
5240	1	8.39	12.06	
	2	9.62		
AX20-RU242-61				
5180	1	11.32	14.58	24
	2	11.80		
5200	1	11.54	14.91	
	2	12.24		
5240	1	11.36	15.09	
	2	12.70		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX40-RU26-0				
5190	1	-1.76	2.32	24
	2	0.17		
5230	1	-1.77	2.87	
	2	1.04		
AX40-RU52-37				
5190	1	1.21	5.41	24
	2	3.33		
5230	1	1.16	5.89	
	2	4.11		
AX40-RU106-53				
5190	1	4.45	8.44	24
	2	6.23		
5230	1	4.56	9.05	
	2	7.14		
AX40-RU242-61				
5190	1	7.41	11.52	24
	2	9.39		
5230	1	7.07	11.63	
	2	9.76		
AX40-RU484-65				
5190	1	10.16	14.40	24
	2	12.35		
5230	1	10.26	14.83	
	2	12.97		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX80-RU26-0				
5210	1	-6.10	-1.76	24
	2	-3.75		
AX80-RU52-37				
5210	1	-2.77	1.35	24
	2	-0.78		
AX80-RU106-53				
5210	1	0.18	4.58	24
	2	2.62		
AX80-RU242-61				
5210	1	3.23	7.41	24
	2	5.32		
AX80-RU484-65				
5210	1	5.95	10.50	24
	2	8.63		
AX80-RU996-67				
5210	1	9.20	13.47	24
	2	11.43		

5250 MHz – 5350 MHz

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
802.11a				
5260	1	12.22	/	24
	2	14.14		
5280	1	12.10	/	
	2	14.12		
5320	1	12.28	/	
	1	13.98		
802.11n20				
5260	1	10.44	14.55	24
	2	12.41		
5280	1	10.35	14.53	
	2	12.44		
5320	1	10.60	14.74	
	2	12.62		
802.11n40				
5270	1	9.60	16.94	24
	2	16.05		
5310	1	9.22	13.97	
	2	12.20		
802.11ac20				
5260	1	10.47	14.58	24
	2	12.44		
5280	1	10.35	14.59	
	2	12.53		
5320	1	10.60	14.80	
	2	12.72		
802.11ac40				
5270	1	9.70	14.37	24
	2	12.56		
5310	1	9.39	14.02	
	2	12.18		
802.11ac80				
5290	1	8.49	12.97	24
	2	11.05		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX20-RU26-0				
5260	1	1.79	5.69	24
	2	3.42		
5280	1	1.60	5.62	
	2	3.43		
5320	1	1.53	6.01	
	2	4.09		
AX20-RU52-37				
5260	1	4.36	8.65	24
	2	6.62		
5280	1	4.65	8.85	
	2	6.78		
5320	1	4.72	8.97	
	2	6.93		
AX20-RU106-53				
5260	1	7.73	11.61	24
	2	9.33		
5280	1	7.83	11.94	
	2	9.81		
5320	1	7.73	11.98	
	2	9.94		
AX20-RU242-61				
5260	1	10.64	14.67	24
	2	12.49		
5280	1	10.58	14.72	
	2	12.61		
5320	1	10.79	14.96	
	2	12.87		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX40-RU26-0				
5270	1	-2.17	1.90	24
	2	-0.26		
5310	1	-2.58	1.52	
	2	-0.62		
AX40-RU52-37				
5270	1	1.01	4.97	24
	2	2.74		
5310	1	0.87	5.10	
	2	3.04		
AX40-RU106-53				
5270	1	4.31	8.26	24
	2	6.02		
5310	1	4.12	8.20	
	2	6.05		
AX40-RU242-61				
5270	1	6.97	11.13	24
	2	9.03		
5310	1	6.92	11.29	
	2	9.31		
AX40-RU484-65				
5270	1	9.95	14.57	24
	2	12.73		
5310	1	9.57	14.24	
	2	12.42		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX80-RU26-0				
5290	1	-6.55	-2.21	24
	2	-4.20		
AX80-RU52-37				
5290	1	-3.22	0.90	24
	2	-1.23		
AX80-RU106-52				
5290	1	-0.27	4.13	24
	2	2.17		
AX80-RU242-61				
5290	1	2.78	6.96	24
	2	4.87		
AX80-RU484-65				
5290	1	5.50	10.05	24
	2	8.18		
AX80-RU996-67				
5290	1	8.74	13.28	24
	2	11.40		

5470 MHz – 5725 MHz

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
802.11a				
5500	1	12.22	/	24
	2	14.22		
5580	1	9.27	/	
	2	13.25		
5700	1	15.57	/	
	2	16.08		
802.11n20				
5500	1	11.12	14.94	24
	2	12.61		
5580	1	7.69	13.20	
	2	11.77		
5700	1	13.42	15.95	
	2	12.40		
802.11n40				
5510	1	9.73	13.84	24
	2	11.70		
5550	1	8.81	10.83	
	2	6.53		
5670	1	11.22	14.64	
	2	12.01		
802.11ac20				
5500	1	10.97	14.74	24
	2	12.38		
5580	1	7.69	12.81	
	2	11.21		
5700	1	13.62	16.07	
	2	12.41		
802.11ac40				
5510	1	9.73	13.90	24
	2	11.81		
5550	1	8.96	13.98	
	2	12.34		
5670	1	11.19	14.65	
	2	12.05		
802.11ac80				
5530	1	11.29	12.94	24
	2	7.95		
5610	1	10.38	11.61	
	2	5.54		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX20-RU26-0				
5500	1	1.63	5.05	24
	2	2.42		
5580	1	-2.01	3.48	
	2	2.04		
5700	1	3.81	6.00	
	2	1.97		
AX20-RU52-37				
5500	1	5.26	8.82	24
	2	6.29		
5580	1	1.58	6.94	
	2	5.44		
5700	1	7.06	9.06	
	2	4.72		
AX20-RU106-53				
5500	1	8.02	11.96	24
	2	9.72		
5580	1	4.77	10.13	
	2	8.63		
5700	1	10.58	12.69	
	2	8.55		
AX20-RU242-61				
5500	1	11.33	15.02	24
	2	12.59		
5580	1	7.78	13.24	
	2	11.78		
5700	1	13.77	15.91	
	2	11.80		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX40-RU26-0				
5510	1	-3.69	1.22	24
	2	-0.47		
5550	1	-1.53	2.08	
	2	-0.41		
5670	1	-2.77	1.57	
	2	-0.43		
AX40-RU52-37				
5510	1	-0.18	4.32	24
	2	2.41		
5550	1	2.18	5.73	
	2	3.20		
5670	1	0.67	4.87	
	2	2.79		
AX40-RU106-53				
5510	1	2.70	7.57	24
	2	5.86		
5550	1	5.19	8.76	
	2	6.24		
5670	1	3.44	8.00	
	2	6.13		
AX40-RU242-61				
5510	1	5.86	10.64	24
	2	8.88		
5550	1	8.13	11.84	
	2	9.44		
5670	1	6.70	11.09	
	2	9.12		
AX40- RU484-65				
5510	1	9.14	13.78	24
	2	11.95		
5550	1	11.35	14.93	
	2	12.43		
5670	1	9.74	14.16	
	2	12.22		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX80-RU26-0				
5530	1	-7.28	-4.04	24
	2	-6.84		
5610	1	-5.47	-4.02	
	2	-9.48		
AX80-RU52-37				
5530	1	-3.90	-0.89	24
	2	-3.91		
5610	1	-2.28	-0.79	
	2	-6.16		
AX80-RU106-52				
5530	1	-1.03	2.17	24
	2	-0.65		
5610	1	1.00	2.36	
	2	-3.34		
AX80-RU242-61				
5530	1	2.03	5.25	24
	2	2.44		
5610	1	4.06	5.40	
	2	-0.37		
AX80-RU484-65				
5530	1	5.41	8.58	24
	2	5.72		
5610	1	7.26	8.72	
	2	3.27		
AX80-RU996-67				
5530	1	8.69	11.84	24
	2	8.96		
5610	1	10.46	11.86	
	2	6.27		

5725 MHz – 5850 MHz:

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
802.11a				
5745	1	9.28	/	30
	2	11.51		
5785	1	8.75	/	
	2	11.67		
5825	1	8.48	/	
	2	11.37		
802.11n20				
5745	1	9.24	14.90	30
	2	13.53		
5785	1	8.71	14.82	
	2	13.60		
5825	1	8.48	14.52	
	2	13.28		
802.11n40				
5755	1	7.80	13.82	30
	2	12.57		
5795	1	7.14	13.74	
	2	12.67		
802.11ac20				
5745	1	9.18	13.40	30
	2	11.33		
5785	1	8.67	13.34	
	2	11.52		
5825	1	8.42	13.05	
	2	11.22		
802.11ac40				
5755	1	7.55	13.90	30
	2	12.75		
5795	1	7.12	13.72	
	2	12.65		
802.11ac80				
5775	1	7.47	12.85	30
	2	11.36		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX20-RU26-0				
5745	1	1.02	6.12	30
	2	4.52		
5785	1	0.89	6.07	
	2	4.50		
5825	1	0.31	2.73	
	2	-0.97		
AX20-RU52-37				
5745	1	4.32	9.16	30
	2	7.43		
5785	1	3.19	9.08	
	2	7.79		
5825	1	3.36	5.82	
	2	2.18		
AX20-RU106-53				
5745	1	7.27	12.26	30
	2	10.60		
5785	1	6.42	12.12	
	2	10.76		
5825	1	6.55	8.92	
	2	5.17		
AX20-RU242-61				
5745	1	10.34	15.40	30
	2	13.77		
5785	1	9.71	15.22	
	2	13.79		
5825	1	9.50	11.92	
	2	8.23		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX40-RU26-0				
5755	1	-3.24	2.12	30
	2	0.77		
5795	1	-3.87	1.67	
	2	0.38		
AX40-RU52-37				
5755	1	-0.53	5.23	30
	2	3.89		
5795	1	-0.72	4.89	
	2	3.50		
AX40-RU106-53				
5755	1	2.96	8.25	30
	2	6.72		
5795	1	2.28	8.08	
	2	6.75		
AX40-RU242-61				
5755	1	5.91	11.29	30
	2	9.80		
5795	1	5.06	11.12	
	2	9.88		
AX40-RU484-65				
5755	1	9.02	14.40	30
	2	12.91		
5795	1	8.35	14.21	
	2	12.91		

Frequency (MHz)	Antenna Port	Average Output Power (dBm)	Total Power (dBm)	Limit (dBm)
AX80-RU26-0				
5775	1	-7.46	-2.27	30
	2	-3.83		
AX80-RU52-37				
5775	1	-4.11	0.97	30
	2	-0.65		
AX80-RU106-52				
5775	1	-1.18	4.03	30
	2	2.47		
AX80-RU242-61				
5775	1	2.07	7.06	30
	2	5.41		
AX80-RU484-65				
5775	1	5.27	10.10	30
	2	8.37		
AX80-RU996-67				
5775	1	8.12	13.23	30
	2	11.63		

Note:

The device employ CDD for 802.11n/ac/ax mode.

Direction Gain = G_{ANT} + Array Gain

For Output Power measurement,

Array Gain = 0 for $N_{ANT} < 4$

G_{ANT} = 4.98dBi

So Direction gain = 4.98dBi < 6dBi

FCC §15.407(a) - POWER SPECTRAL DENSITY

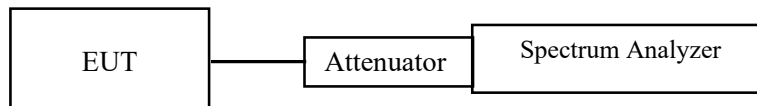
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

Refer to the ANSI C63.10-2013 Section 12.3.2.6.



Test Data**Environmental Conditions**

Temperature:	27°C
Relative Humidity:	29%
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling from 2023-03-03 to 2023-03-06.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the test data and plots as follows:

5150 MHz – 5250 MHz:

Frequency (MHz)	Antenna Port	PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)
802.11a				
5180	1	0.25	/	11
	2	-3.08		
5200	1	0.60	/	11
	2	-0.29		
5240	1	0.83	/	11
	2	0.85		
802.11n20				
5180	1	-1.35	3.02	9.02
	2	1.05		
5200	1	-1.02	3.47	9.02
	2	1.56		
5240	1	-1.10	3.38	9.02
	2	1.47		
802.11n40				
5190	1	-7.01	-1.81	9.02
	2	-3.37		
5230	1	-6.85	-1.51	9.02
	2	-3.01		
802.11ac20				
5180	1	-2.49	-0.20	9.02
	2	-4.07		
5200	1	-2.04	0.32	9.02
	2	-3.45		
5240	1	-2.08	0.55	9.02
	2	-2.87		
802.11ac40				
5190	1	-8.46	-2.40	9.02
	2	-3.63		
5230	1	-8.16	-1.87	9.02
	2	-3.03		

Frequency (MHz)	Antenna Port	PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)
802.11ac80				
5210	1	-14.12	-9.28	9.02
	2	-11.00		
802.11ax20				
5180	1	-3.92	-1.19	9.02
	2	-4.49		
5200	1	-3.63	-0.85	9.02
	2	-4.11		
5240	1	-3.56	-0.48	9.02
	2	-3.43		
802.11ax40				
5190	1	-7.09	-2.97	9.02
	2	-5.10		
5230	1	-6.80	-2.51	9.02
	2	-4.54		
802.11ax80				
5210	1	-11.54	-7.24	9.02
	2	-9.26		

Note:

The device employ CDD for 802.11n/ac/ax mode.

Direction Gain = $G_{ANT} + \text{Array Gain}$

For PSD measurement,

Array Gain = $10 \cdot \log(N_{ANT})$

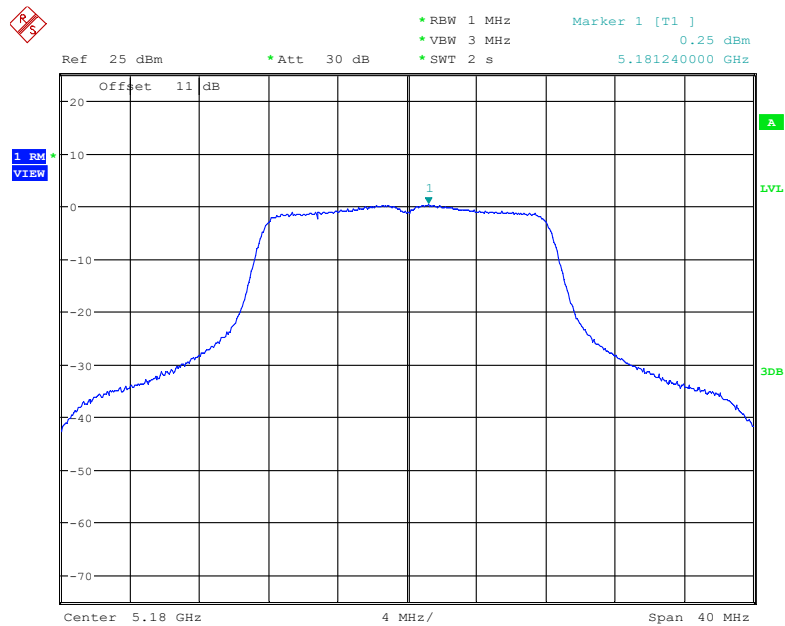
$G_{ANT}=4.98\text{dBi}$, $N_{ANT}=2$

Direction gain= $4.98\text{dBi}+10 \cdot \log(2)=7.98\text{dBi}>6\text{dBi}$

So for 802.11n/ac/ax mode, the limit should reduce 1.98dB

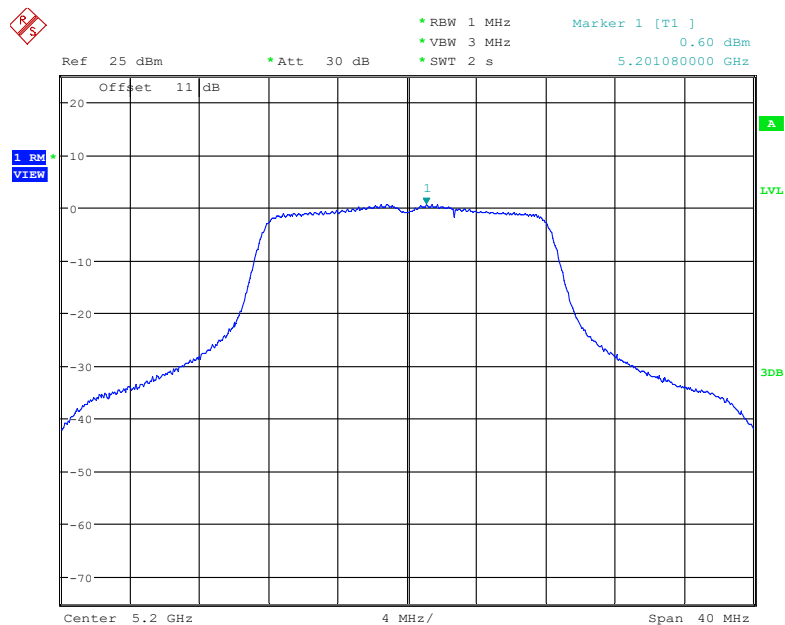
Antenna 1

802.11a mode, Power Spectral Density, 5180 MHz

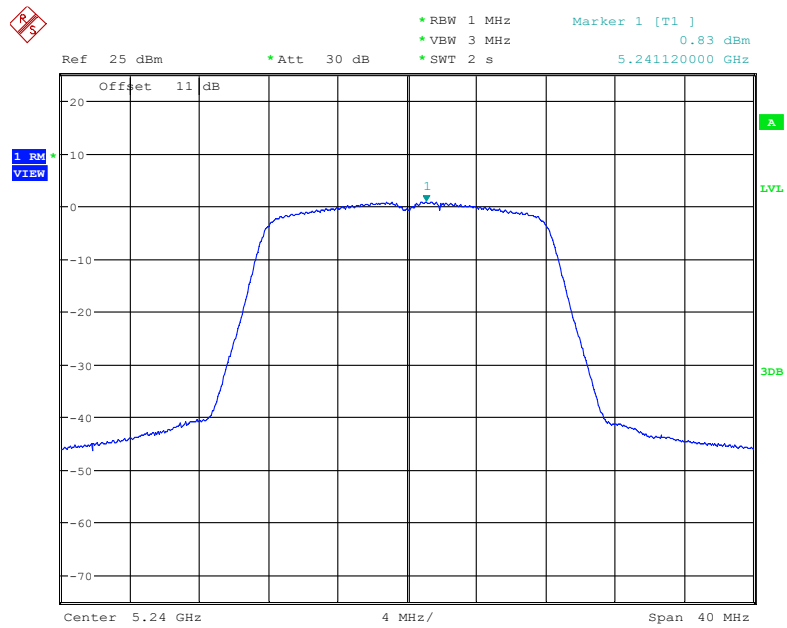


Date: 3.MAR.2023 19:53:03

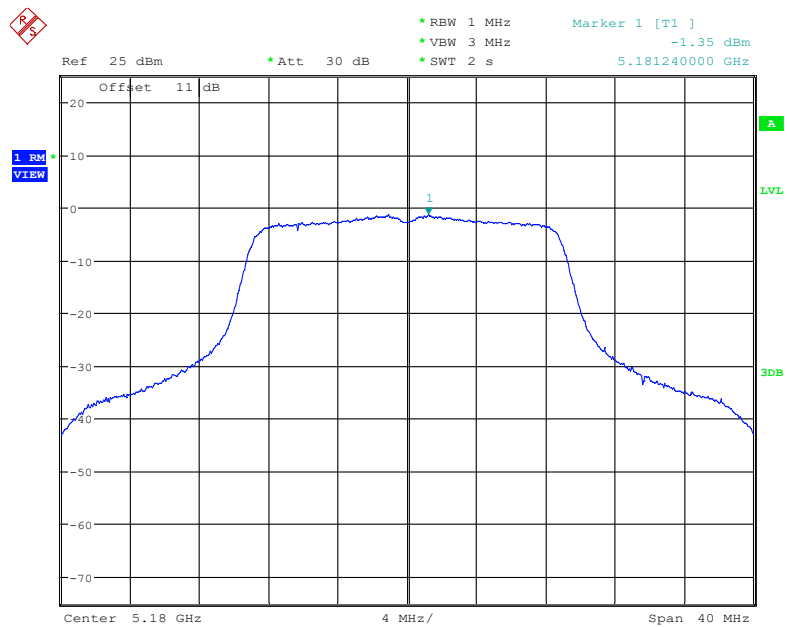
802.11a mode, Power Spectral Density, 5200 MHz



Date: 3.MAR.2023 19:57:51

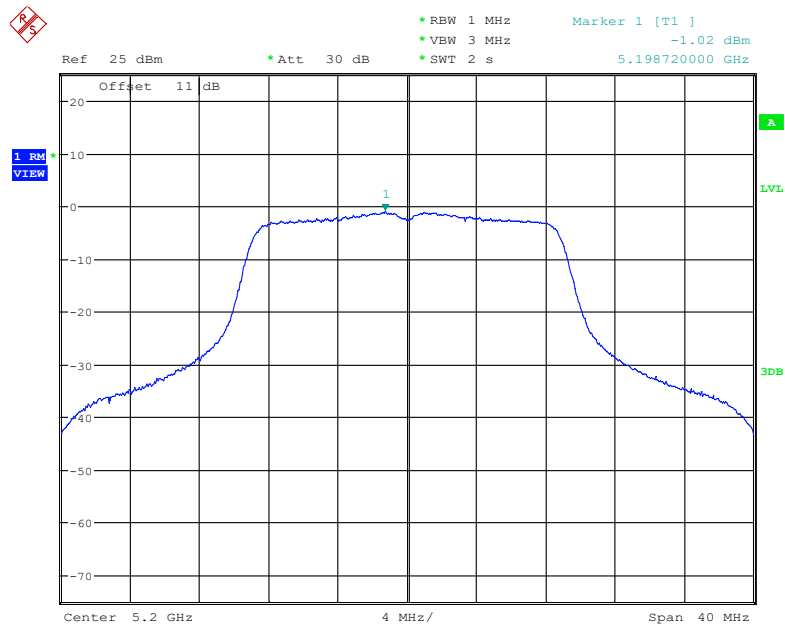
802.11a mode, Power Spectral Density, 5240 MHz

Date: 3.MAR.2023 20:16:46

802.11n20 mode, Power Spectral Density, 5180 MHz

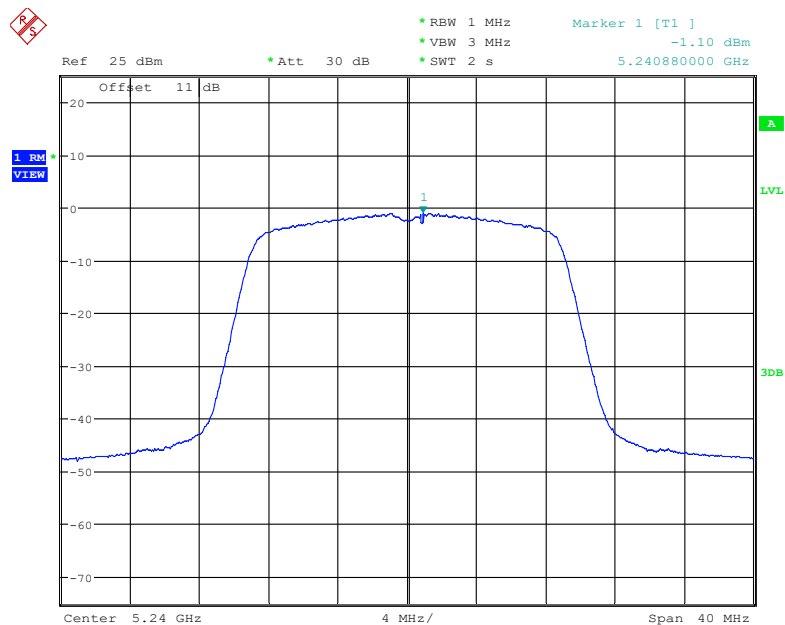
Date: 3.MAR.2023 20:32:17

802.11n20 mode, Power Spectral Density, 5200 MHz



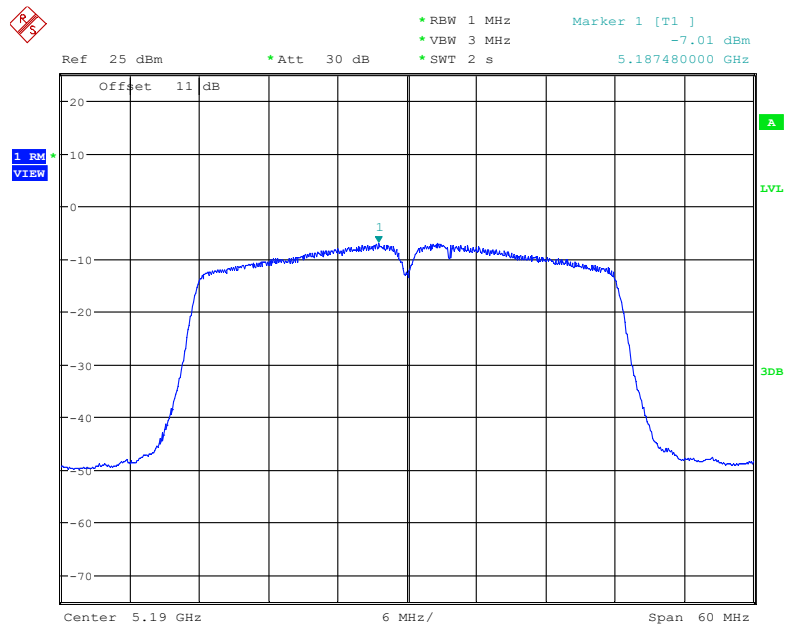
Date: 3.MAR.2023 20:35:47

802.11n20 mode, Power Spectral Density, 5240 MHz



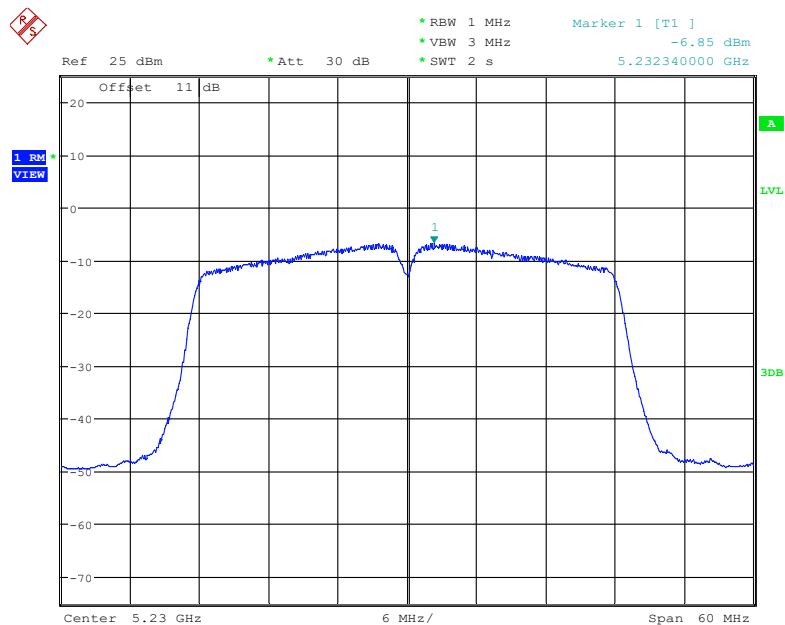
Date: 3.MAR.2023 20:39:36

802.11n40 mode, Power Spectral Density, 5190 MHz



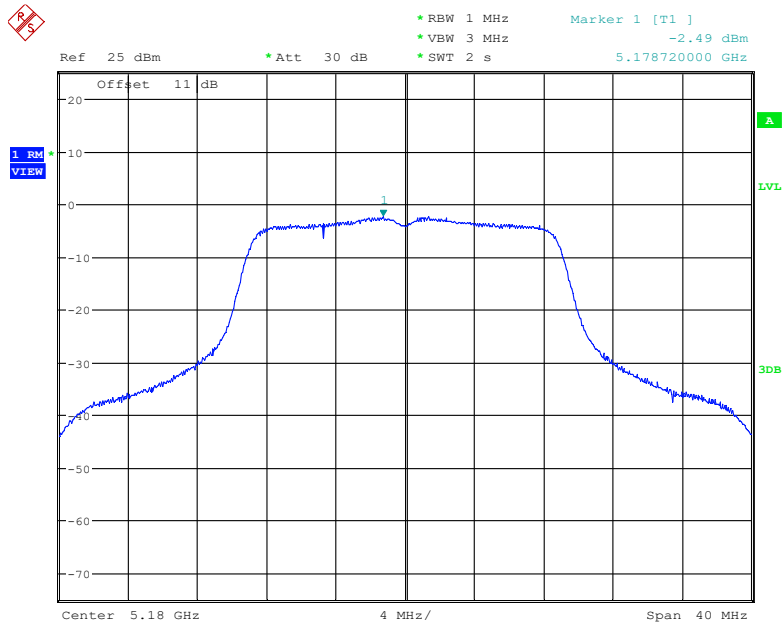
Date: 3.MAR.2023 21:00:38

802.11n40 mode, Power Spectral Density, 5230 MHz



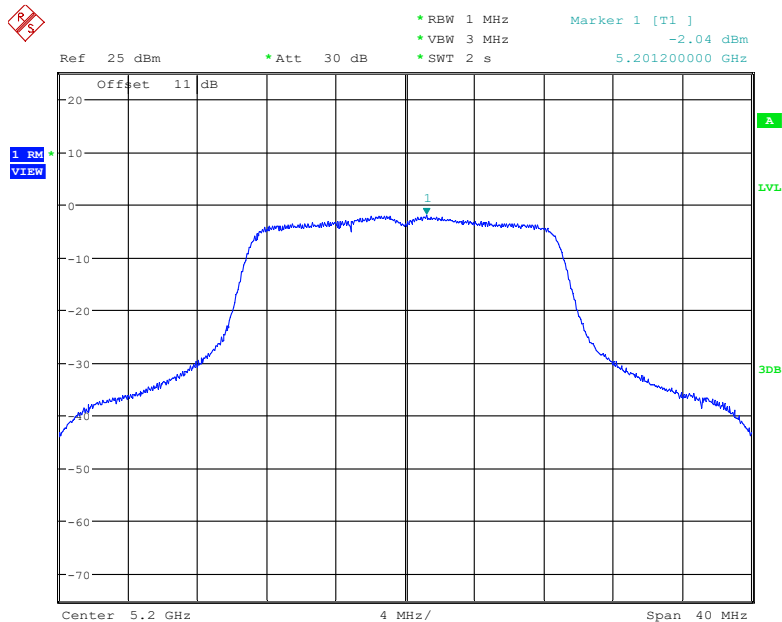
Date: 3.MAR.2023 21:02:59

802.11ac20 mode, Power Spectral Density, 5180 MHz

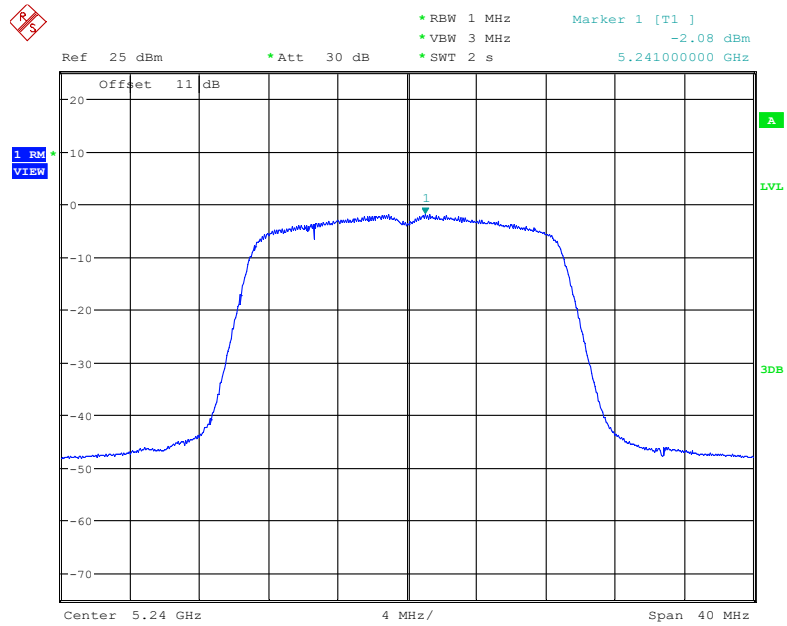


Date: 3.MAR.2023 20:21:15

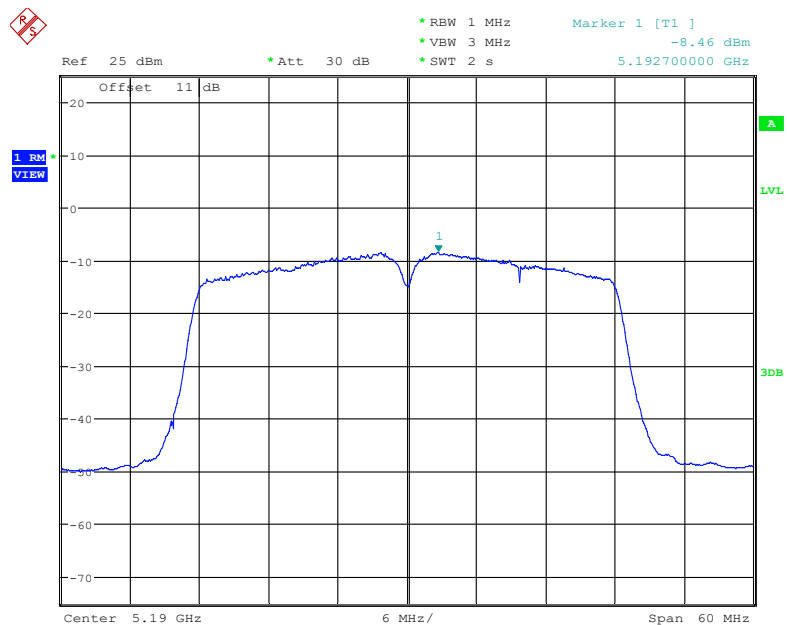
802.11ac20 mode, Power Spectral Density, 5200 MHz



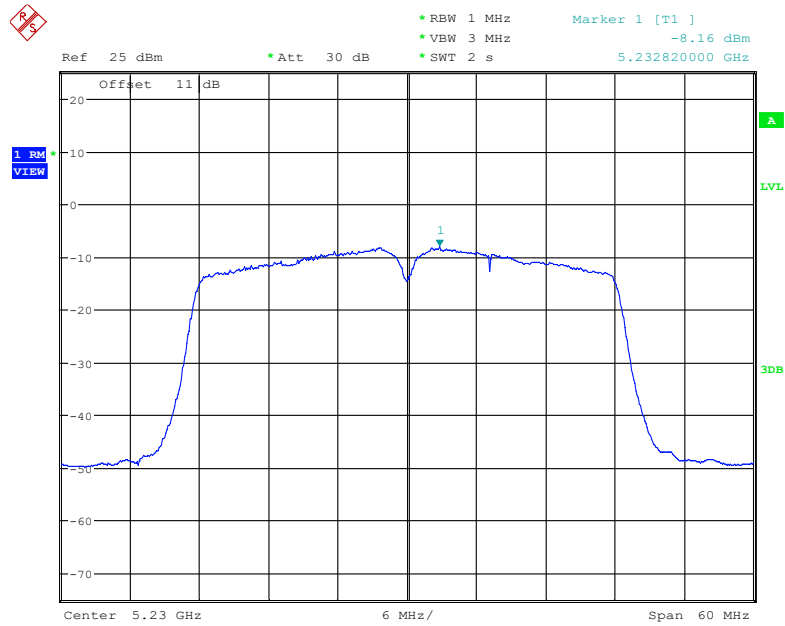
Date: 3.MAR.2023 20:24:59

802. 11ac20 mode, Power Spectral Density, 5240 MHz

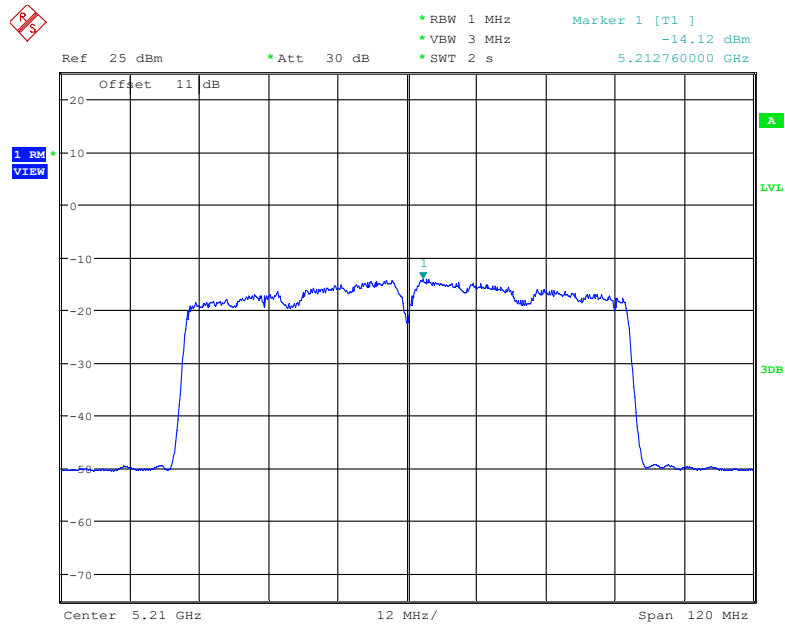
Date: 3.MAR.2023 20:28:14

802. 11ac40 mode, Power Spectral Density, 5190 MHz

Date: 3.MAR.2023 20:55:29

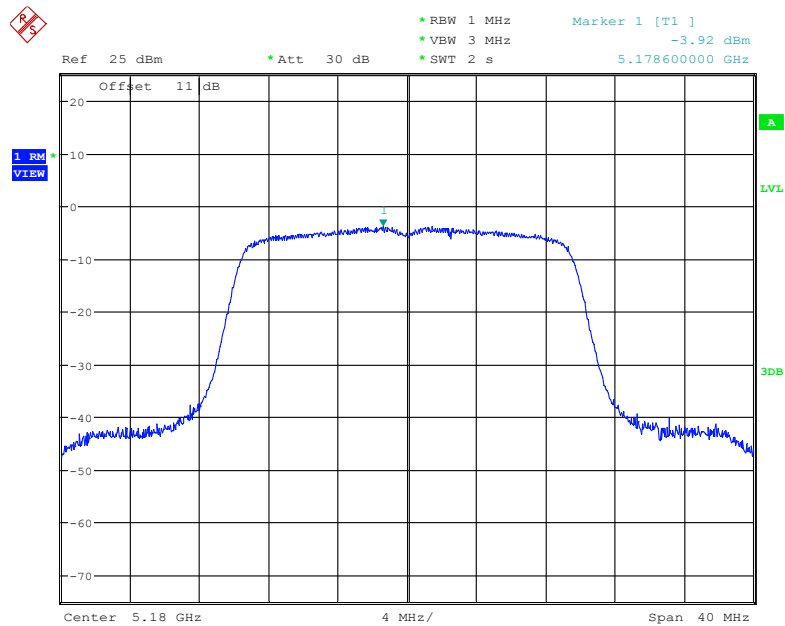
802. 11ac40 mode, Power Spectral Density, 5230 MHz

Date: 3.MAR.2023 20:57:47

802. 11ac80 mode, Power Spectral Density, 5210 MHz

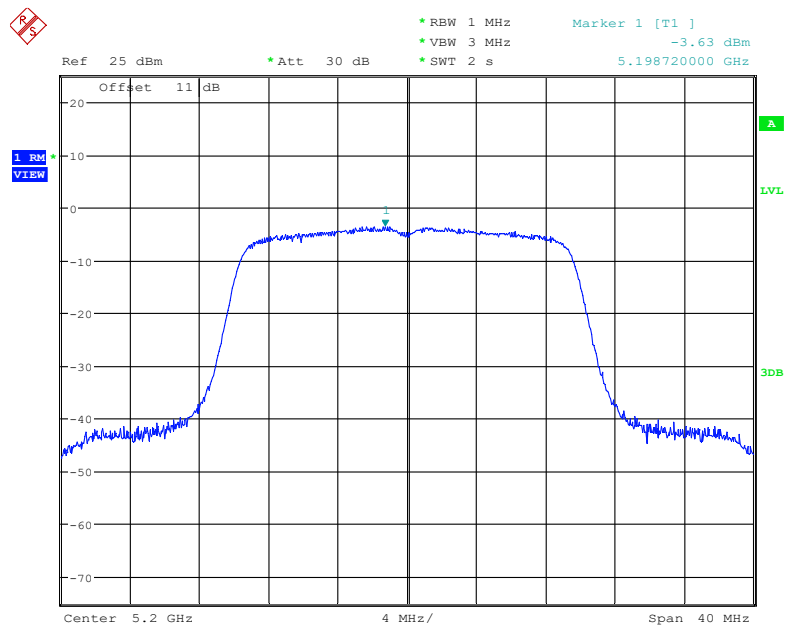
Date: 3.MAR.2023 21:13:40

802.11ax20 mode, Power Spectral Density, 5180 MHz

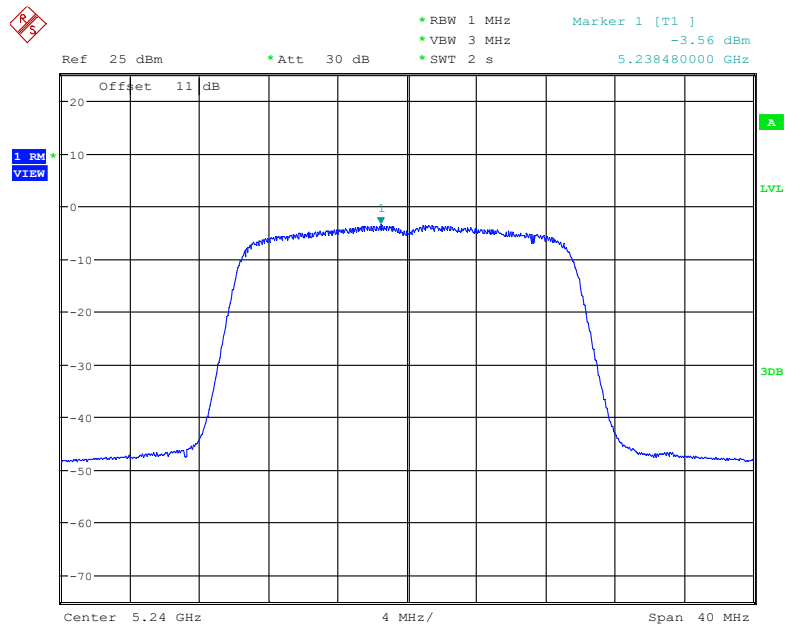


Date: 3.MAR.2023 20:43:46

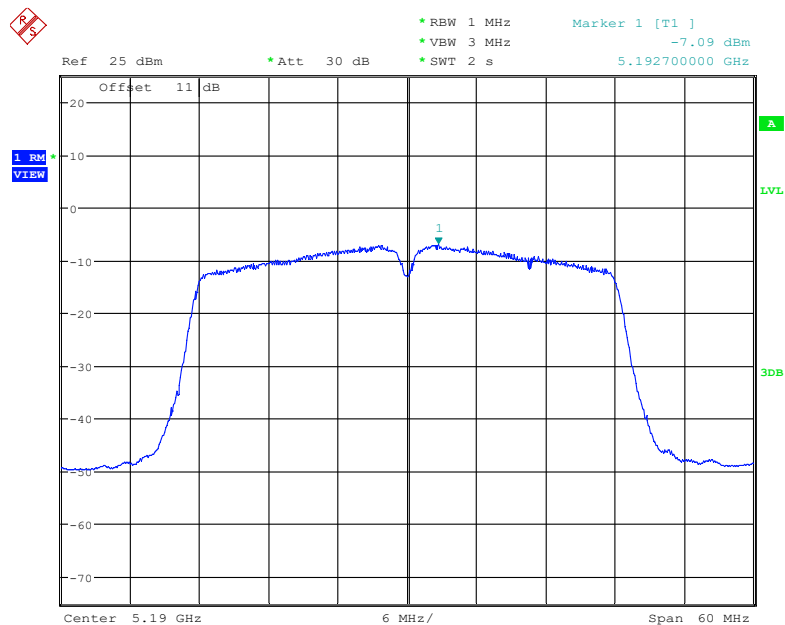
802.11ax20 mode, Power Spectral Density, 5200 MHz



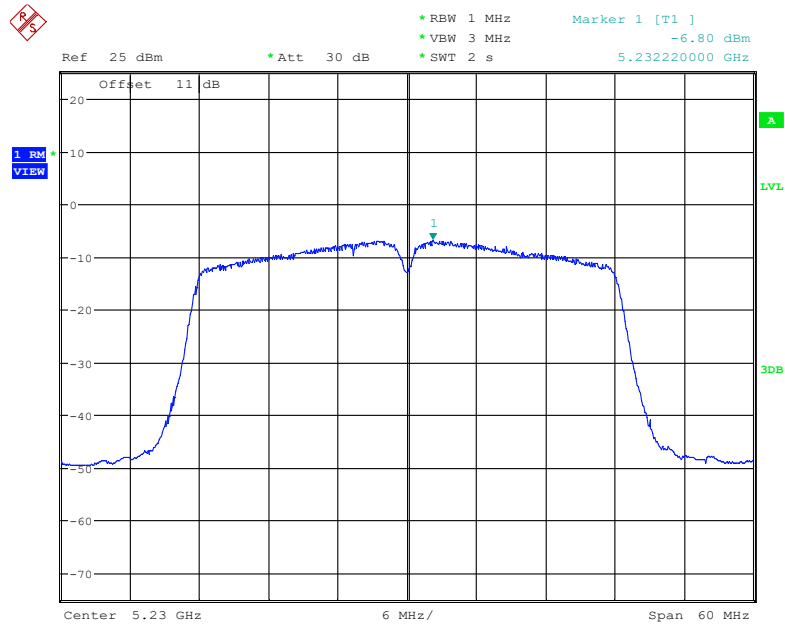
Date: 3.MAR.2023 20:47:50

802. 11ax20 mode, Power Spectral Density, 5240 MHz

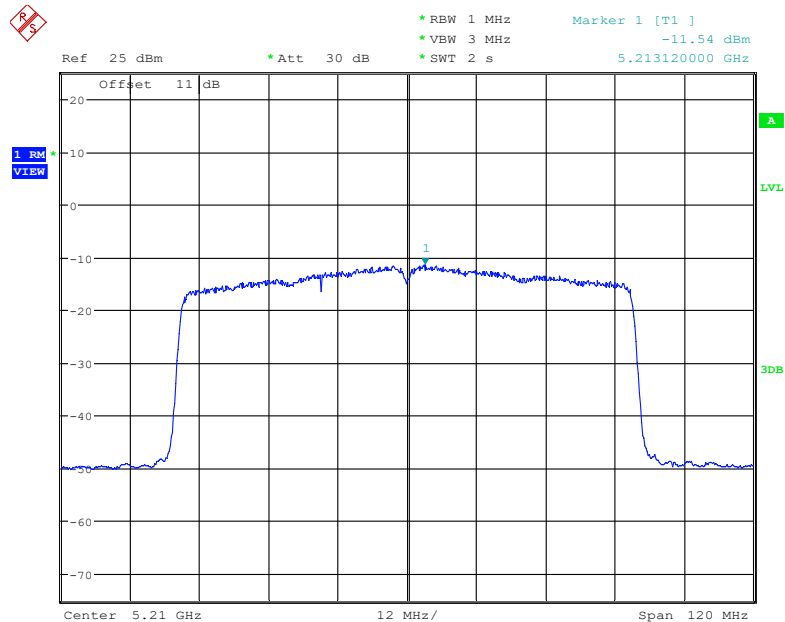
Date: 3.MAR.2023 20:52:23

802. 11ax40 mode, Power Spectral Density, 5190 MHz

Date: 3.MAR.2023 21:06:25

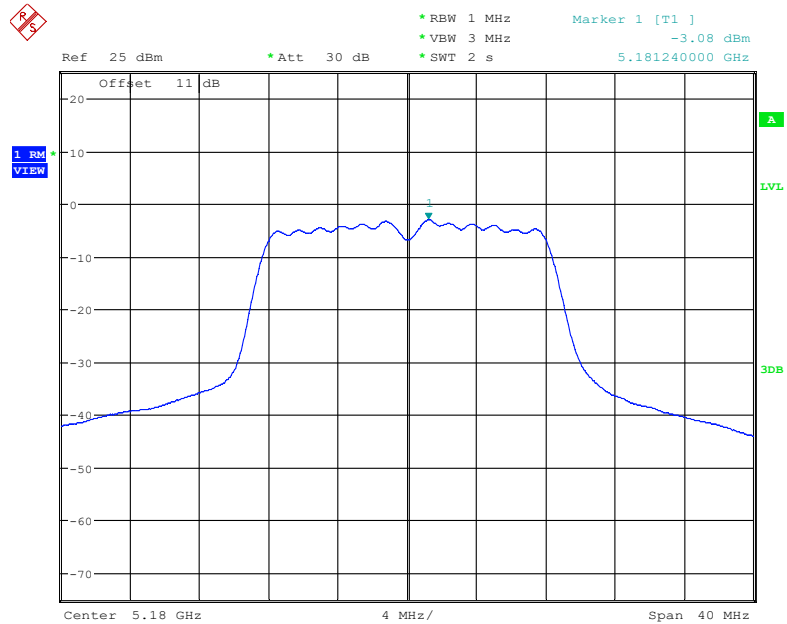
802. 11ax40 mode, Power Spectral Density, 5230 MHz

Date: 3.MAR.2023 21:08:42

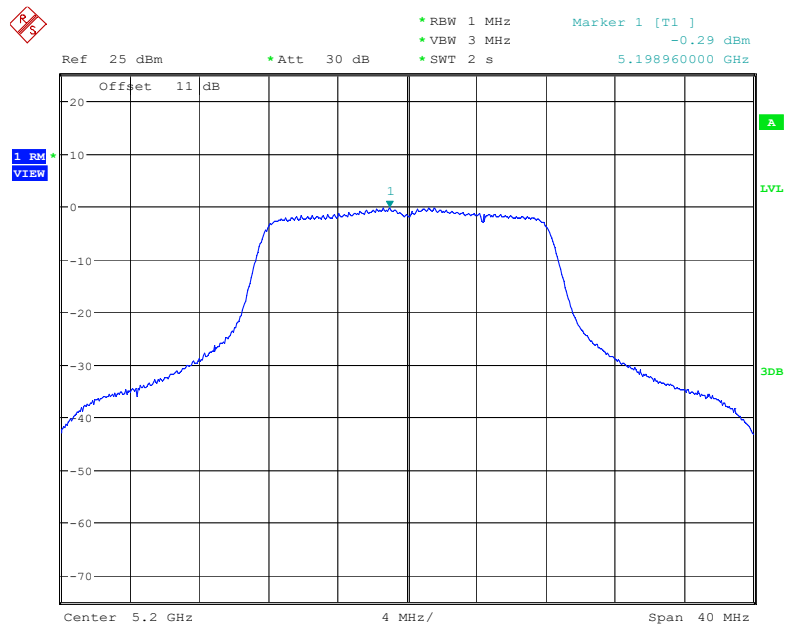
802. 11ax80 mode, Power Spectral Density, 5210 MHz

Date: 3.MAR.2023 21:16:47

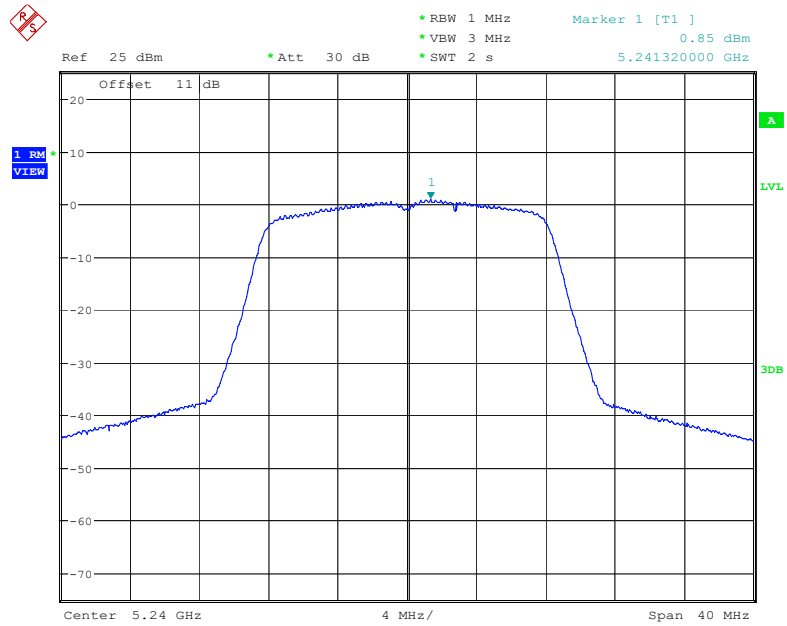
Antenna 2:

802.11a mode, Power Spectral Density, 5180 MHz

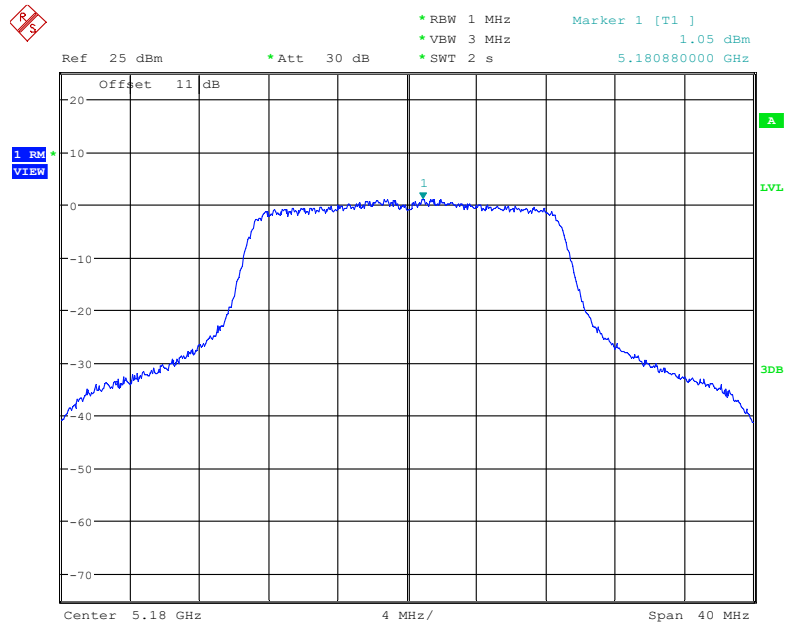
Date: 5.MAR.2023 13:13:04

802.11a mode, Power Spectral Density, 5200 MHz

Date: 6.MAR.2023 22:40:41

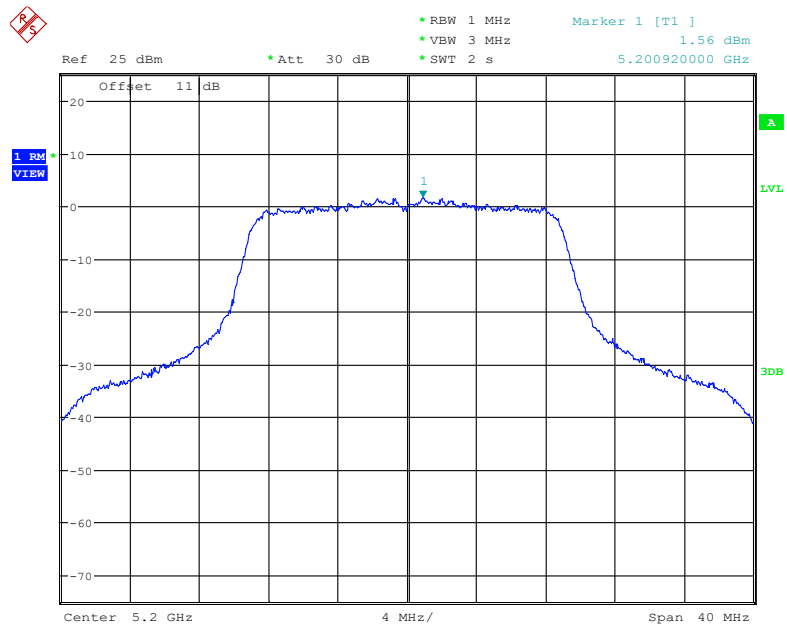
802.11a mode, Power Spectral Density, 5240 MHz

Date: 6.MAR.2023 22:37:45

802.11n20 mode, Power Spectral Density, 5180 MHz

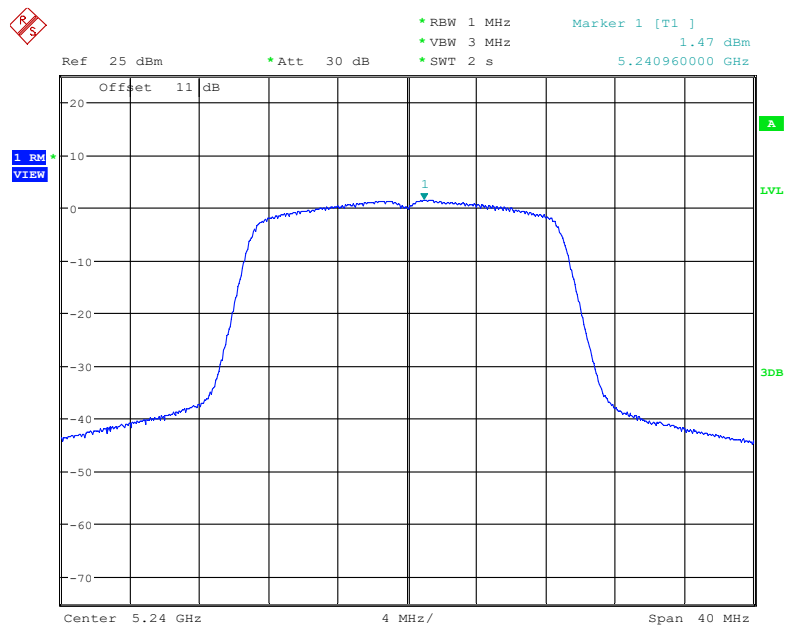
Date: 5.MAR.2023 14:00:04

802.11n20 mode, Power Spectral Density, 5200 MHz



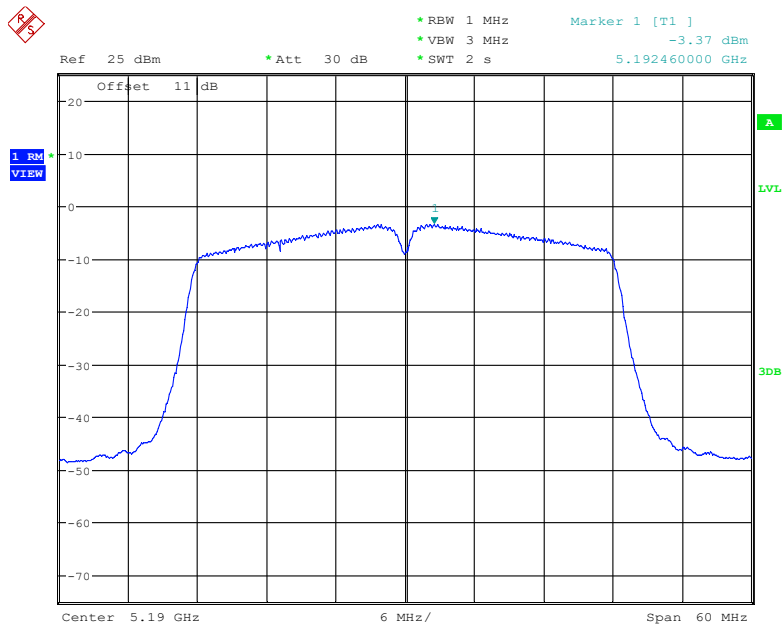
Date: 5.MAR.2023 14:03:56

802.11n20 mode, Power Spectral Density, 5240 MHz



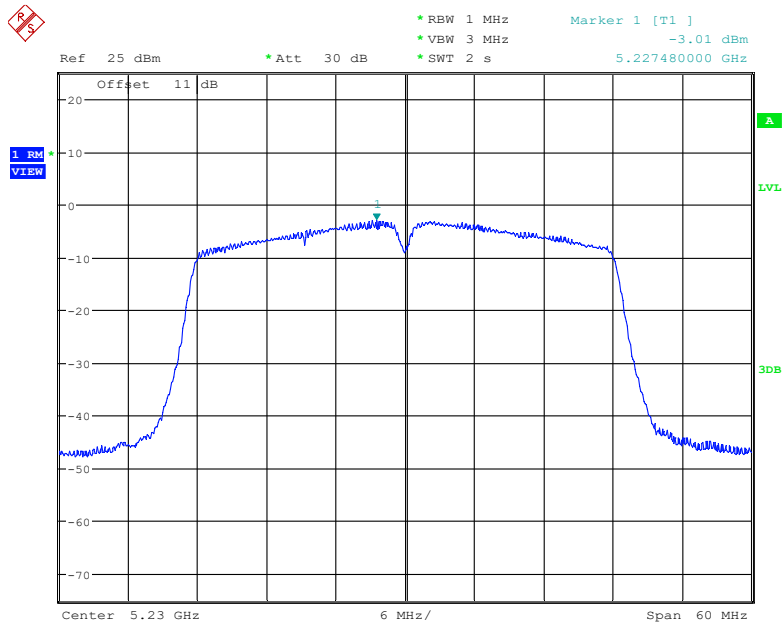
Date: 5.MAR.2023 14:06:26

802.11n40 mode, Power Spectral Density, 5190 MHz



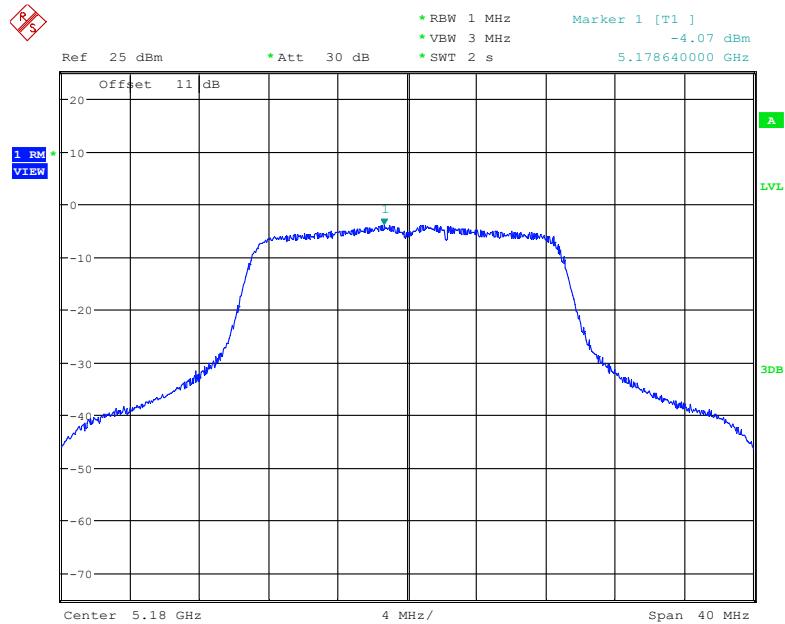
Date: 5.MAR.2023 14:29:16

802.11n40 mode, Power Spectral Density, 5230 MHz



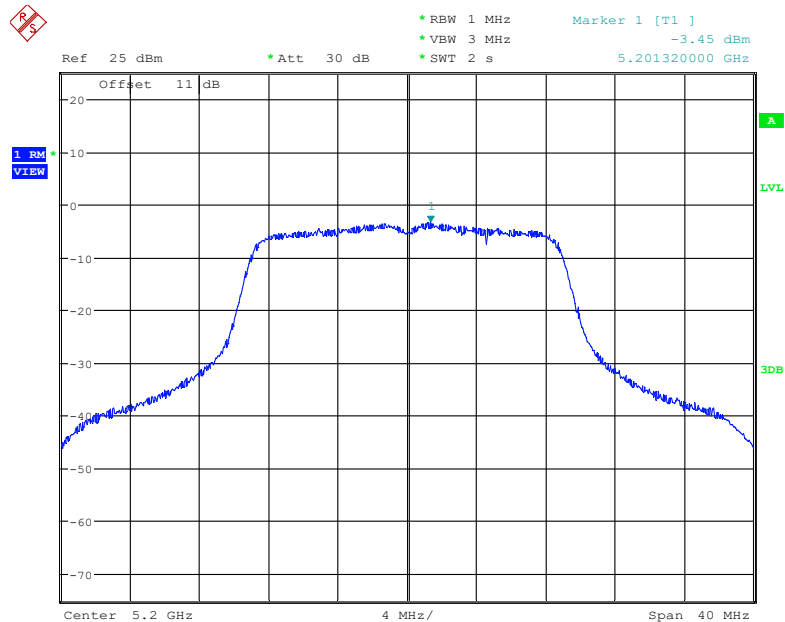
Date: 5.MAR.2023 14:32:03

802.11ac20 mode, Power Spectral Density, 5180 MHz



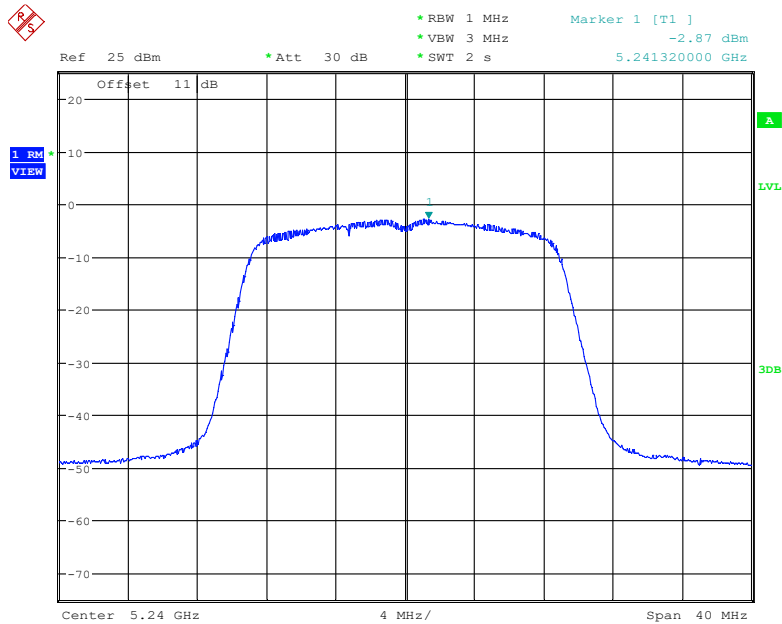
Date: 5.MAR.2023 13:38:49

802.11ac20 mode, Power Spectral Density, 5200 MHz



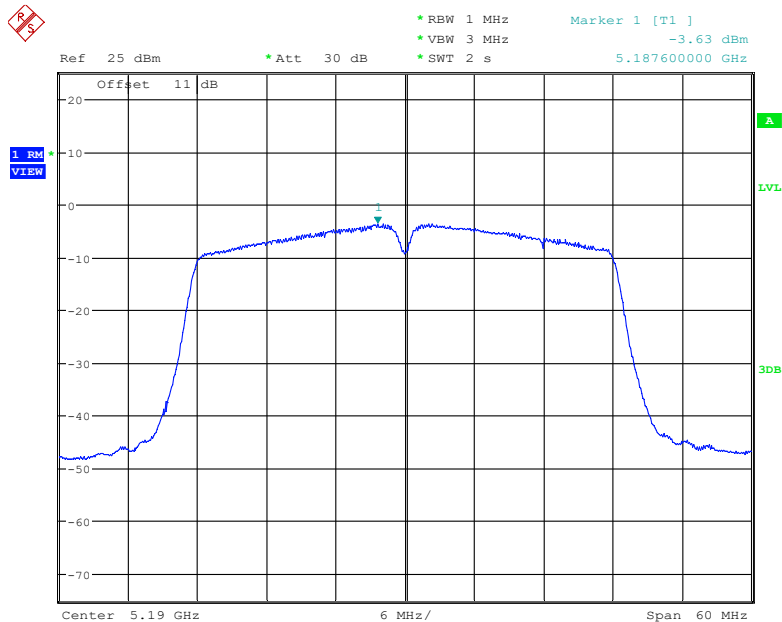
Date: 5.MAR.2023 13:42:22

802. 11ac20 mode, Power Spectral Density, 5240 MHz

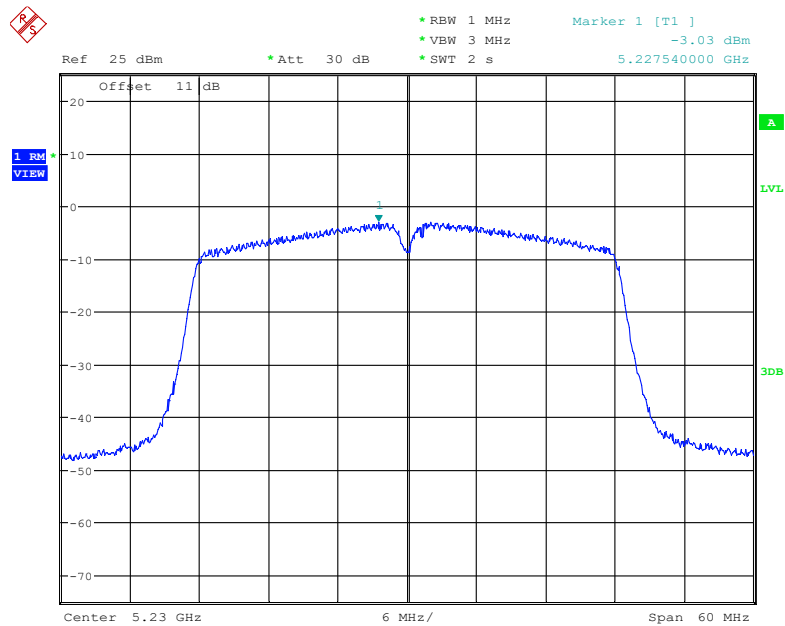


Date: 5.MAR.2023 13:44:53

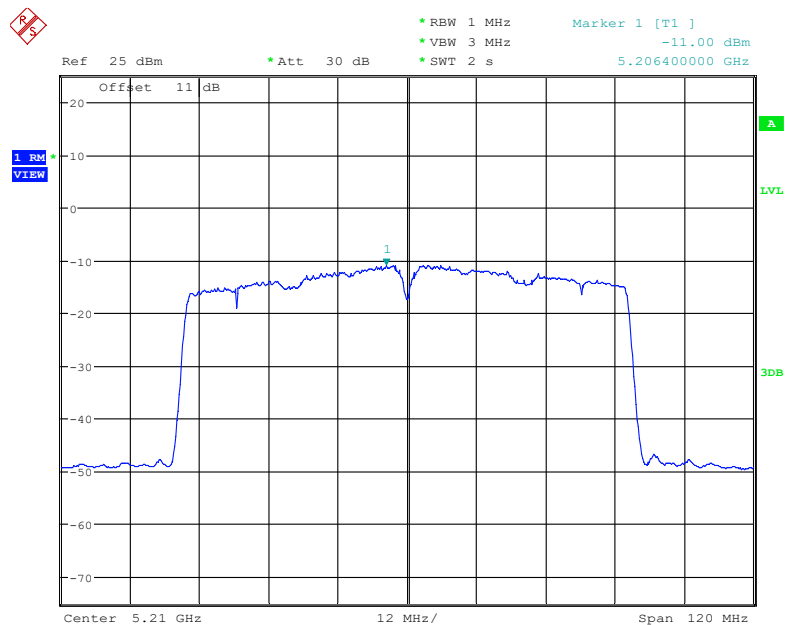
802. 11ac40 mode, Power Spectral Density, 5190 MHz



Date: 5.MAR.2023 14:08:49

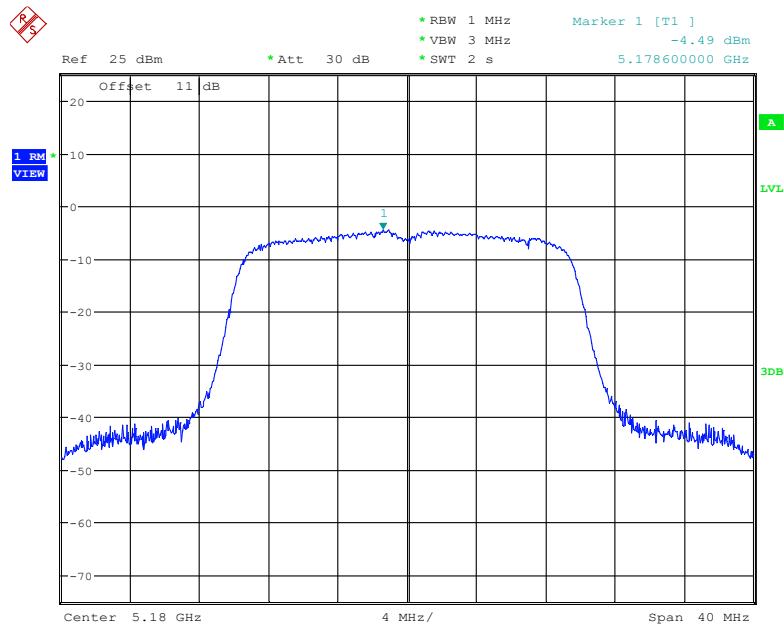
802. 11ac40 mode, Power Spectral Density, 5230 MHz

Date: 5.MAR.2023 14:13:28

802. 11ac80 mode, Power Spectral Density, 5210 MHz

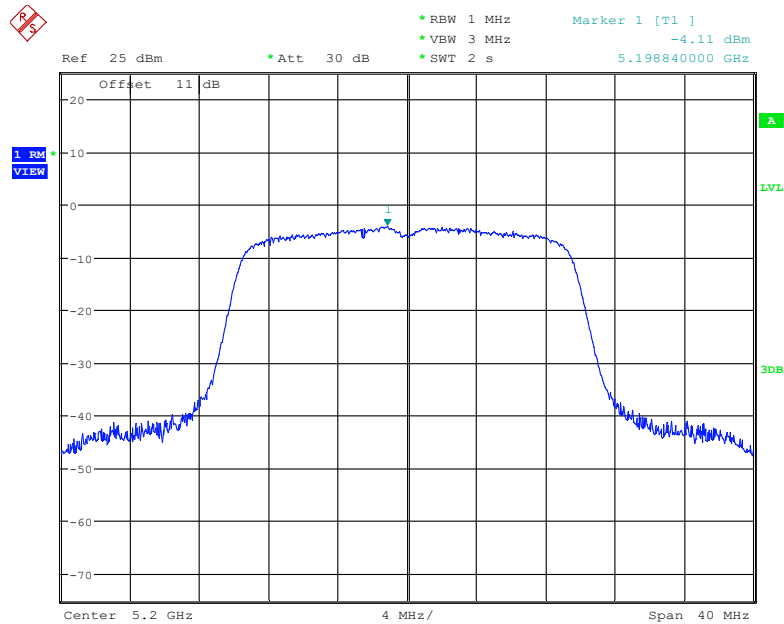
Date: 5.MAR.2023 14:34:33

802.11ax20 mode, Power Spectral Density, 5180 MHz

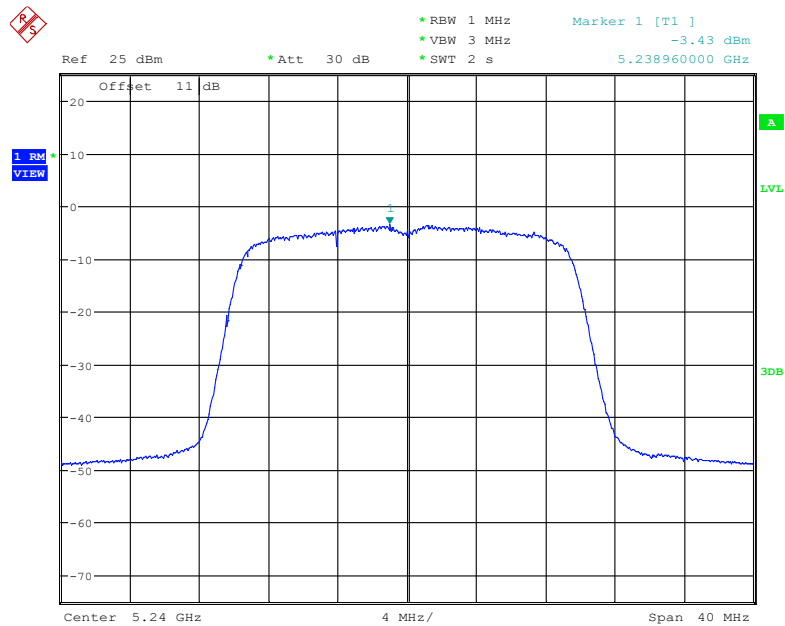


Date: 5.MAR.2023 13:57:01

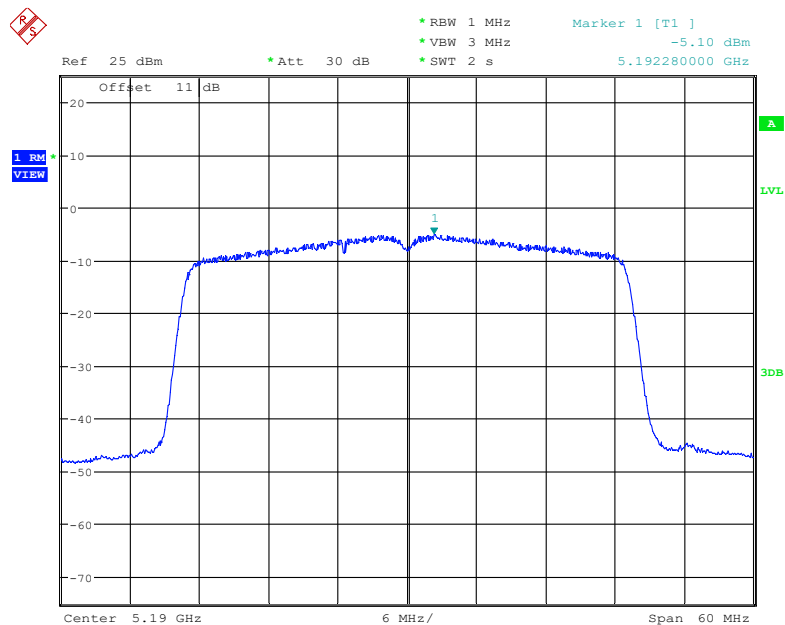
802.11ax20 mode, Power Spectral Density, 5200 MHz



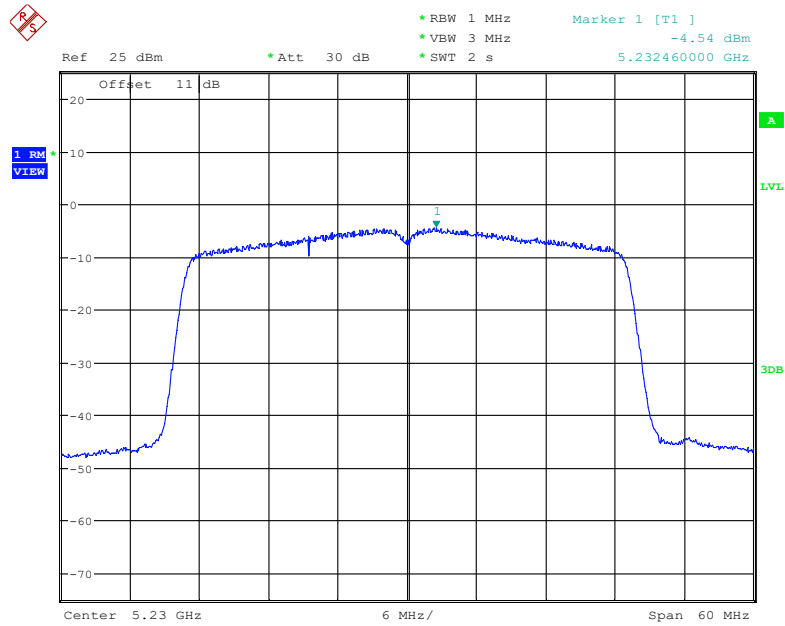
Date: 5.MAR.2023 13:52:10

802. 11ax20 mode, Power Spectral Density, 5240 MHz

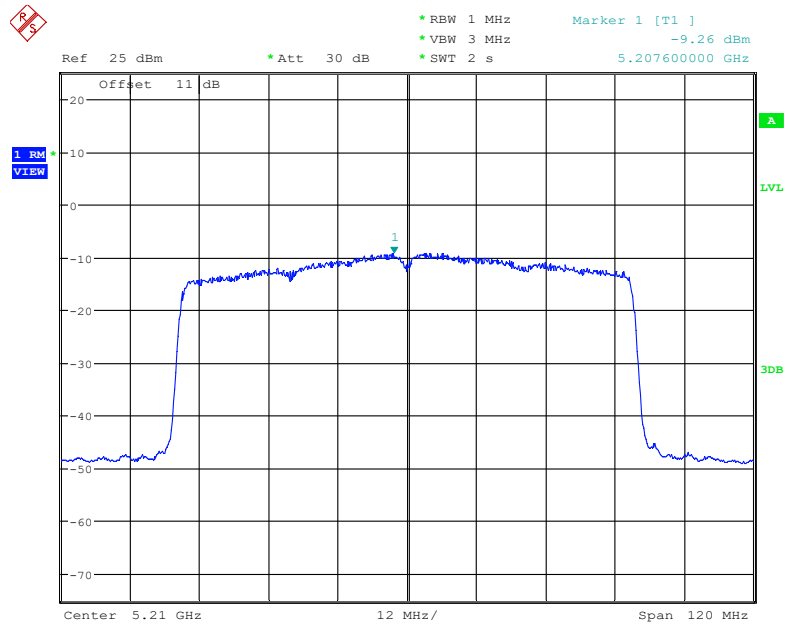
Date: 5.MAR.2023 13:48:20

802. 11ax40 mode, Power Spectral Density, 5190 MHz

Date: 5.MAR.2023 14:17:00

802.11ax40 mode, Power Spectral Density, 5230 MHz

Date: 5.MAR.2023 14:25:49

802.11ax80 mode, Power Spectral Density, 5210 MHz

Date: 5.MAR.2023 14:37:33

5250 MHz – 5350 MHz:

Frequency (MHz)	Antenna Port	PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)
802.11a				
5260	1	0.82	/	11
	2	2.82		
5280	1	0.64	/	
	2	2.65		
5320	1	0.82	/	
	2	2.40		
802.11n20				
5260	1	-1.21	1.93	9.02
	2	-0.96		
5280	1	-1.37	1.84	
	2	-0.97		
5320	1	-1.20	2.17	
	2	-0.51		
802.11n40				
5270	1	-6.08	-1.40	9.02
	2	-3.20		
5310	1	-6.45	-1.69	
	2	-3.46		
802.11ac20				
5260	1	-1.95	2.10	9.02
	2	-0.07		
5280	1	-2.21	2.01	
	2	-0.05		
5320	1	-1.85	2.37	
	2	0.31		
802.11ac40				
5270	1	-7.24	-3.36	9.02
	2	-5.64		
5310	1	-7.68	-3.73	
	2	-5.96		
802.11ac80				
5290	1	-12.19	-8.34	9.02
	2	-10.65		
802.11ax20				
5260	1	-4.59	-0.48	9.02
	2	-2.61		
5280	1	-4.64	-0.44	
	2	-2.51		
5320	1	-4.28	0.02	
	2	-1.99		
802.11ax40				
5270	1	-7.58	-2.91	9.02
	2	-4.73		
5310	1	-7.82	-3.14	
	2	-4.95		
802.11ax80				
5290	1	-12.06	-7.51	9.02
	2	-9.38		

Note:

The device employ CDD for 802.11n/ac/ax mode.

Direction Gain = G_{ANT} + Array Gain

For PSD measurement,

Array Gain = $10 \cdot \log(N_{ANT})$

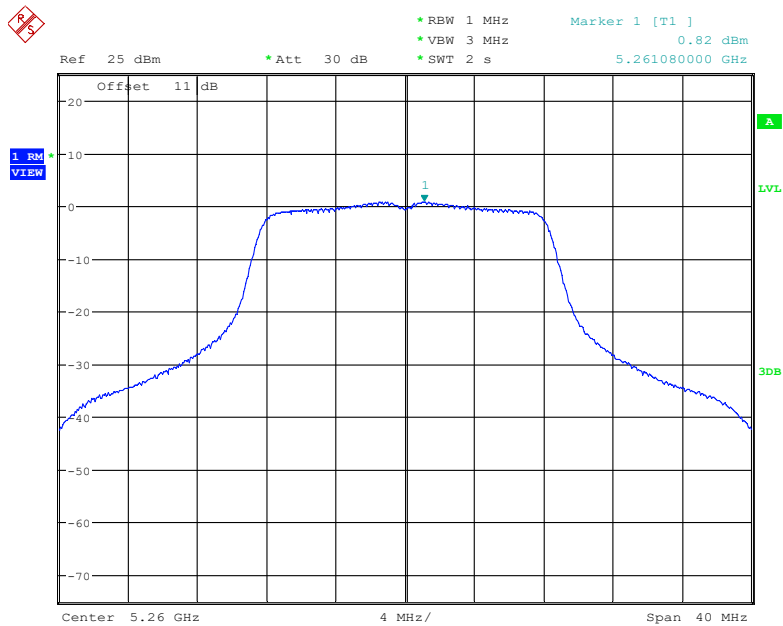
$G_{ANT}=4.98\text{dBi}$, $N_{ANT}=2$

Direction gain= $4.98\text{dBi}+10 \cdot \log(2)=7.98>6\text{dBi}$

So for 802.11n/ac/ax mode, the limit should reduce 1.98dB

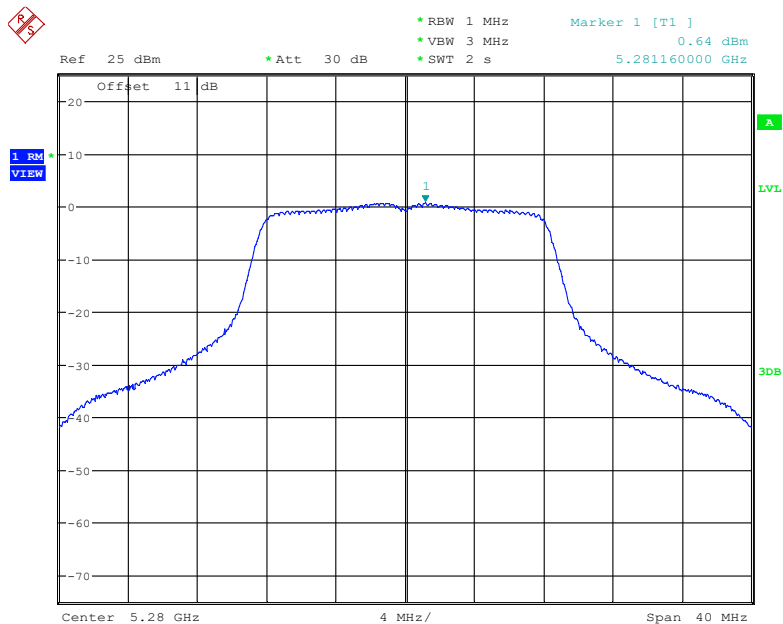
Antenna 1:

802.11a mode, Power Spectral Density, 5260 MHz

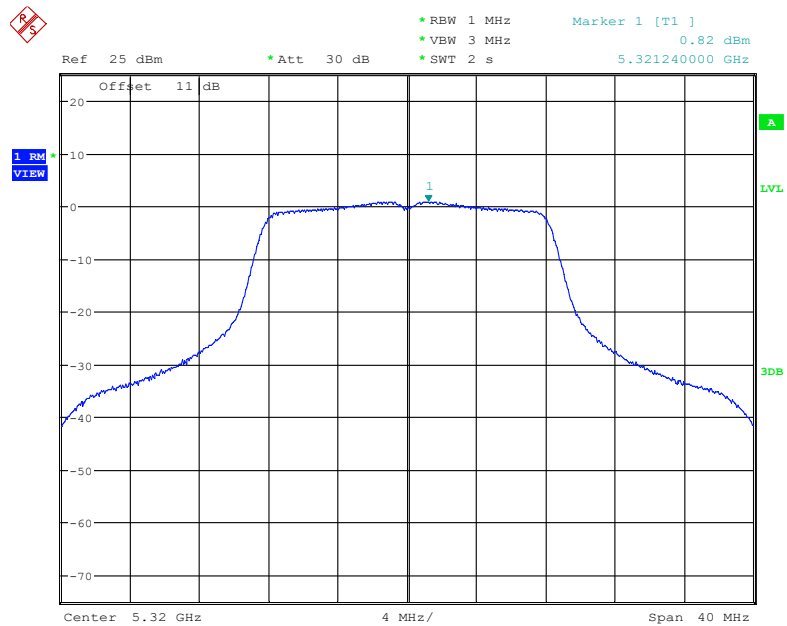


Date: 3.MAR.2023 21:56:16

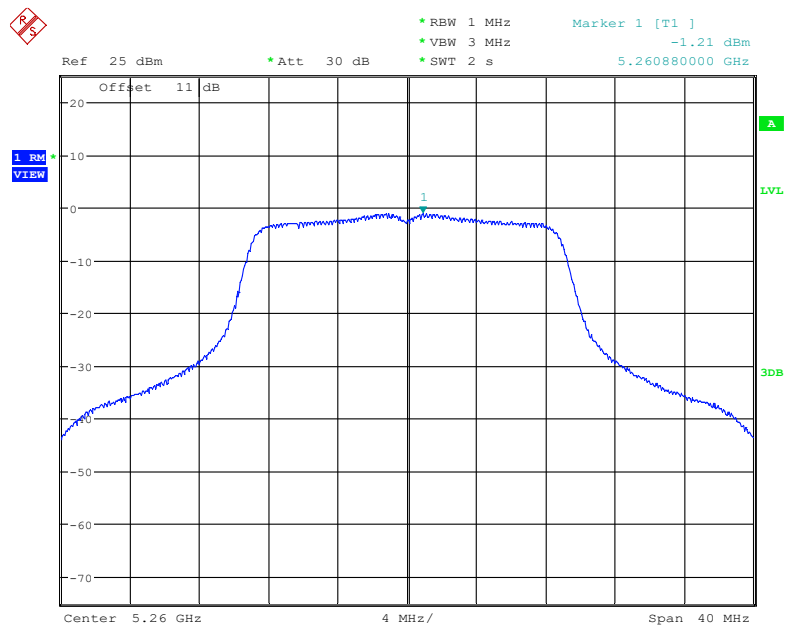
802.11a mode, Power Spectral Density, 5280 MHz



Date: 3.MAR.2023 21:59:06

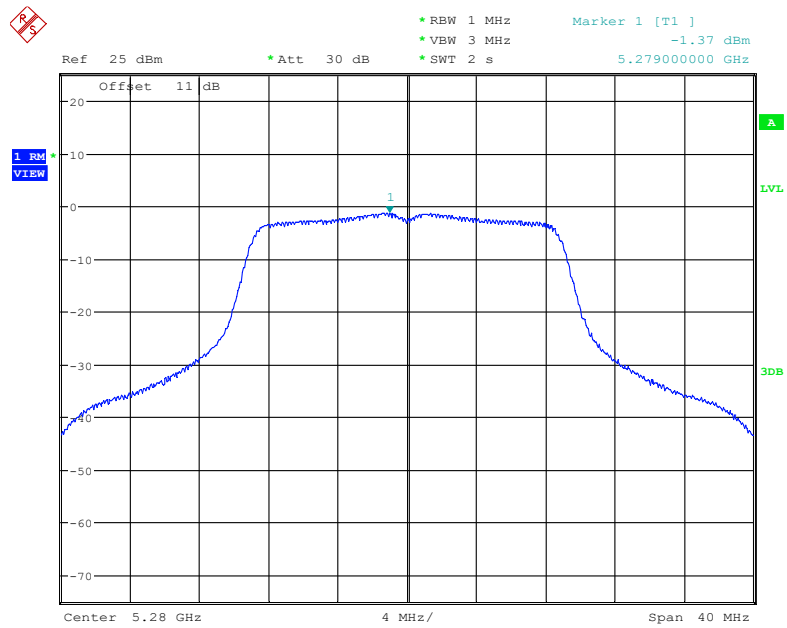
802.11a mode, Power Spectral Density, 5320 MHz

Date: 3.MAR.2023 22:01:42

802.11n20 mode, Power Spectral Density, 5260 MHz

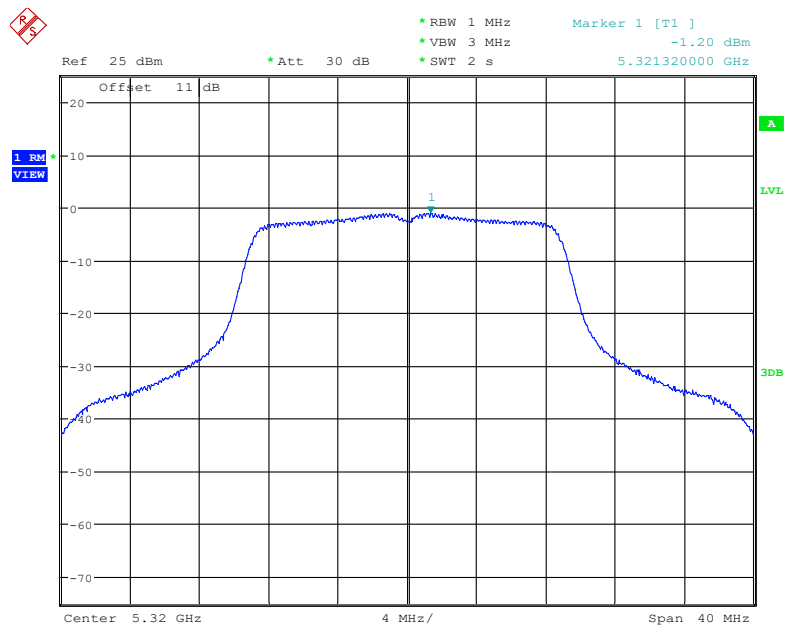
Date: 3.MAR.2023 22:07:03

802.11n20 mode, Power Spectral Density, 5280 MHz



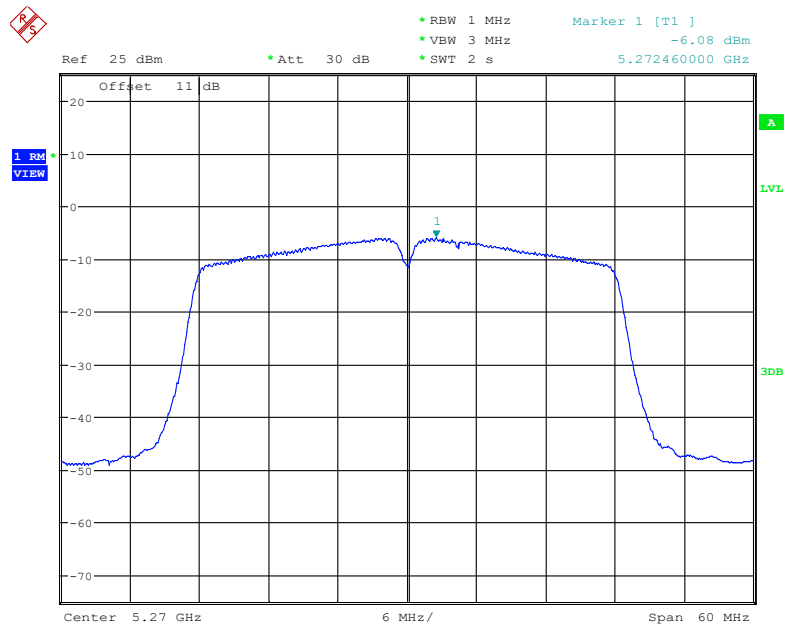
Date: 3.MAR.2023 22:10:46

802.11n20 mode, Power Spectral Density, 5320 MHz



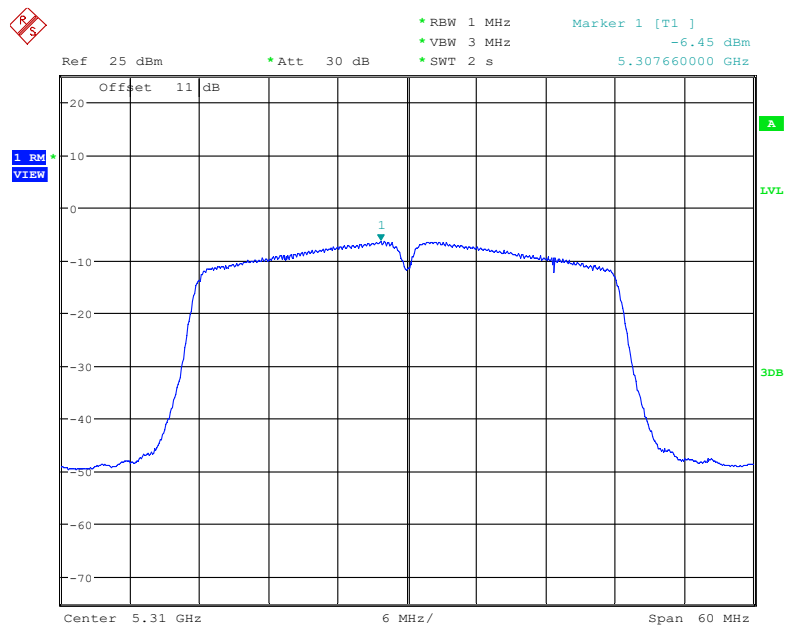
Date: 3.MAR.2023 22:15:31

802.11n40 mode, Power Spectral Density, 5270 MHz



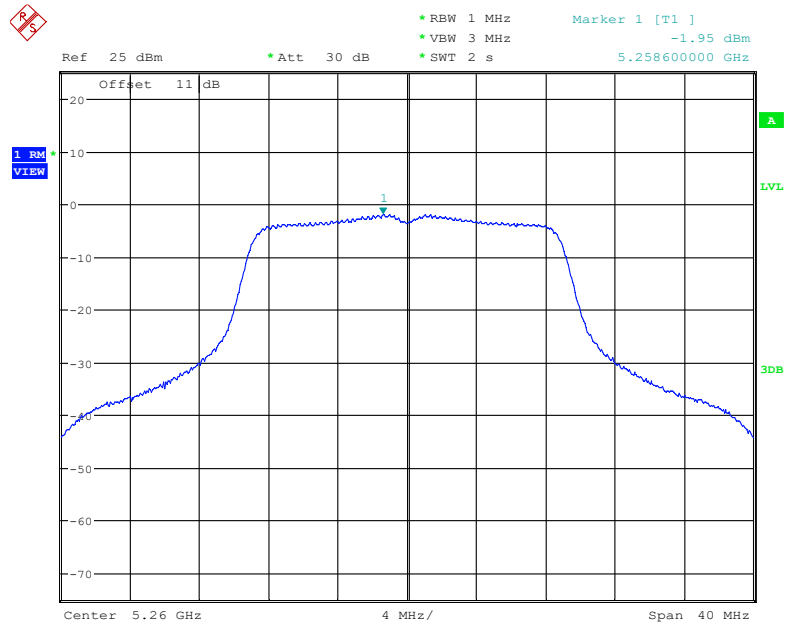
Date: 3.MAR.2023 23:00:50

802.11n40 mode, Power Spectral Density, 5310 MHz



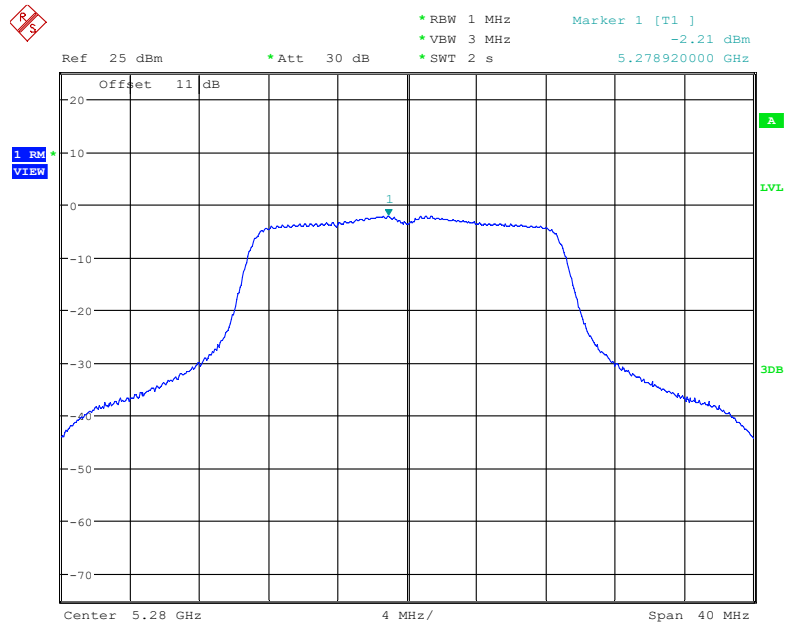
Date: 3.MAR.2023 23:05:44

802.11ac20 mode, Power Spectral Density, 5260 MHz

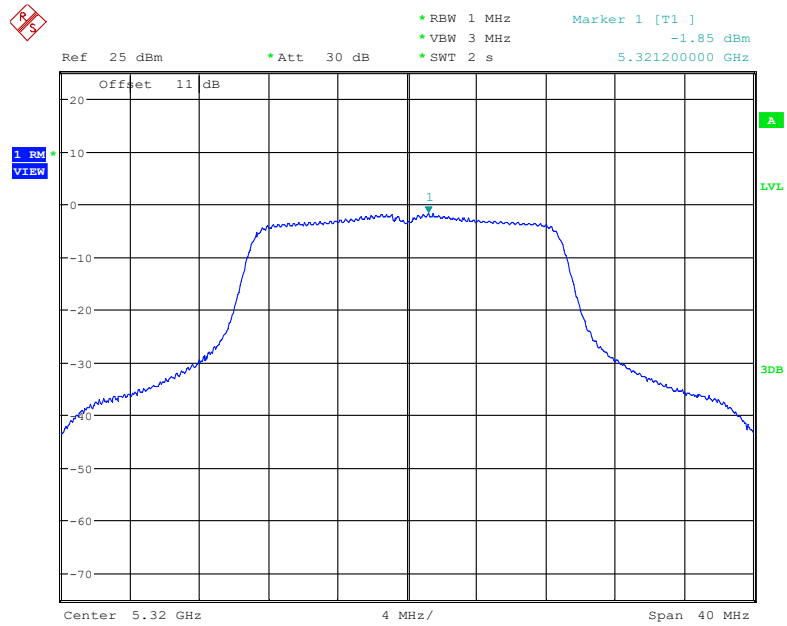


Date: 3.MAR.2023 21:42:43

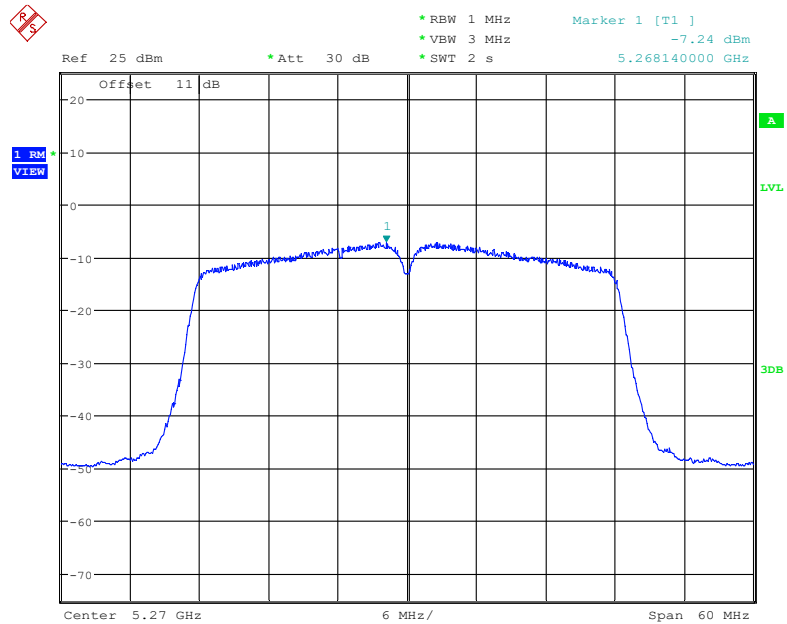
802.11ac20 mode, Power Spectral Density, 5280 MHz



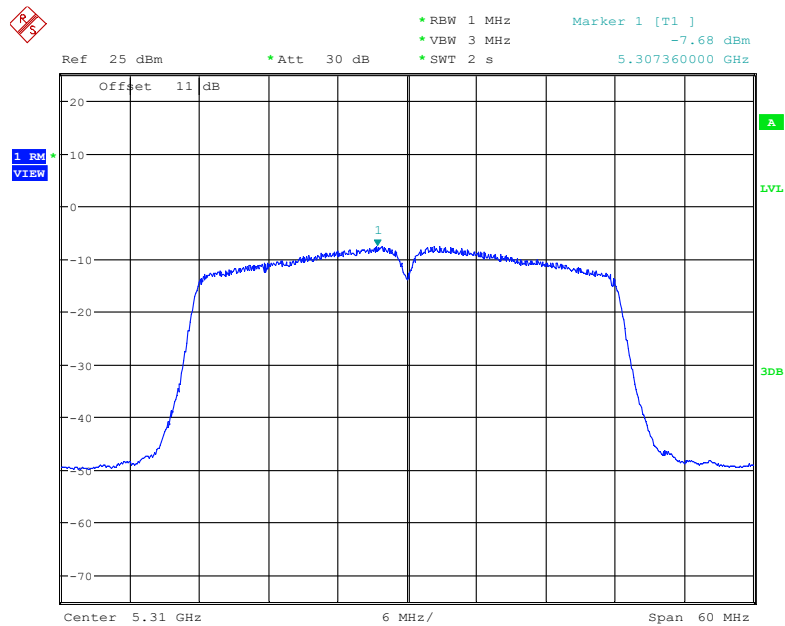
Date: 3.MAR.2023 21:47:46

802.11ac20 mode, Power Spectral Density, 5320 MHz

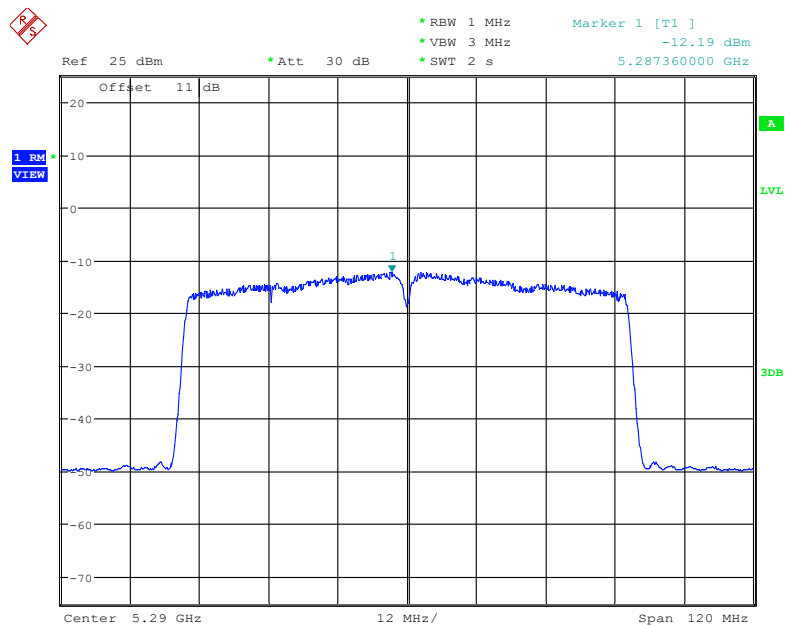
Date: 3.MAR.2023 21:51:39

802.11ac40 mode, Power Spectral Density, 5270 MHz

Date: 3.MAR.2023 22:55:55

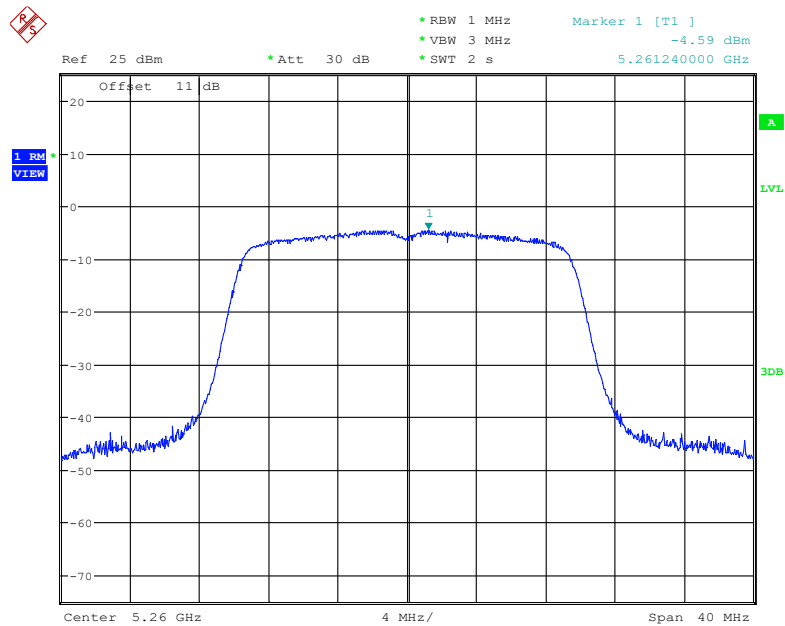
802. 11ac40 mode, Power Spectral Density, 5310 MHz

Date: 3.MAR.2023 22:58:21

802. 11ac80 mode, Power Spectral Density, 5290 MHz

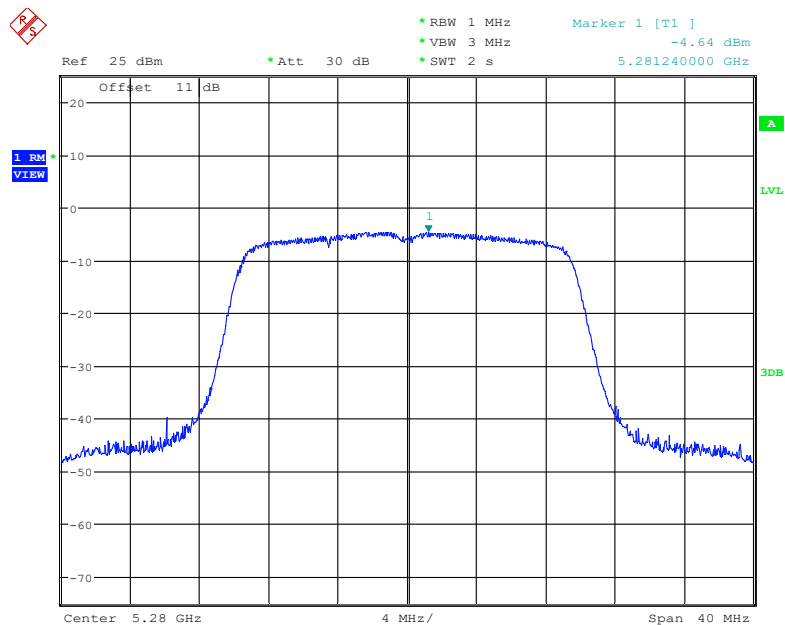
Date: 3.MAR.2023 23:18:10

802.11ax20 mode, Power Spectral Density, 5260 MHz

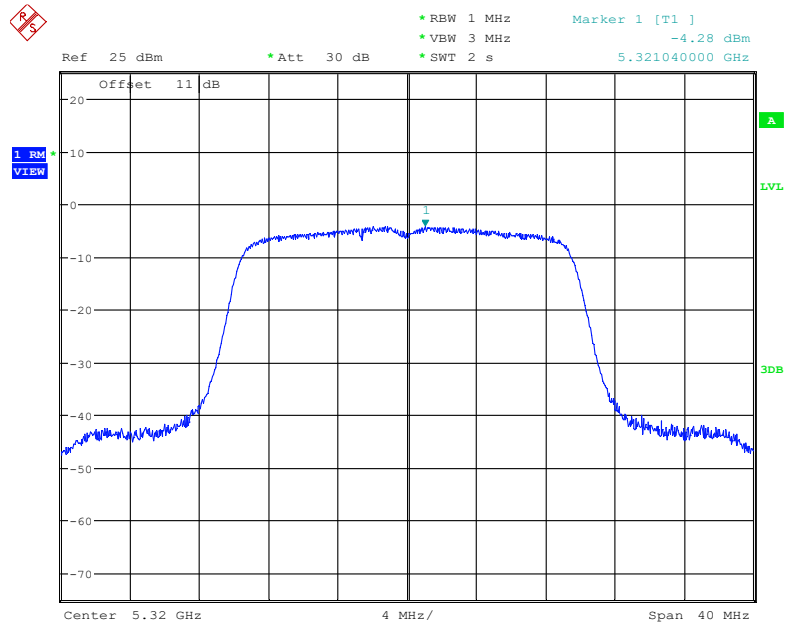


Date: 3.MAR.2023 22:23:04

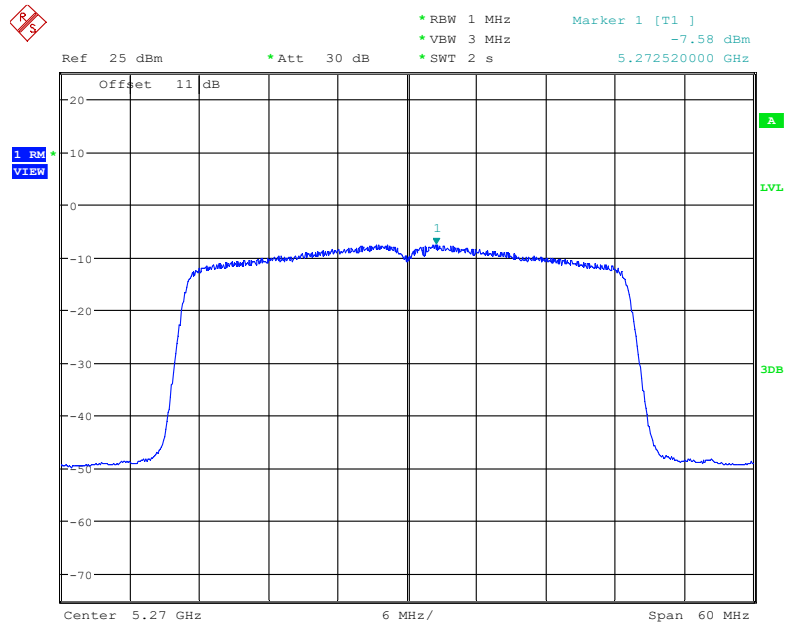
802.11ax20 mode, Power Spectral Density, 5280 MHz



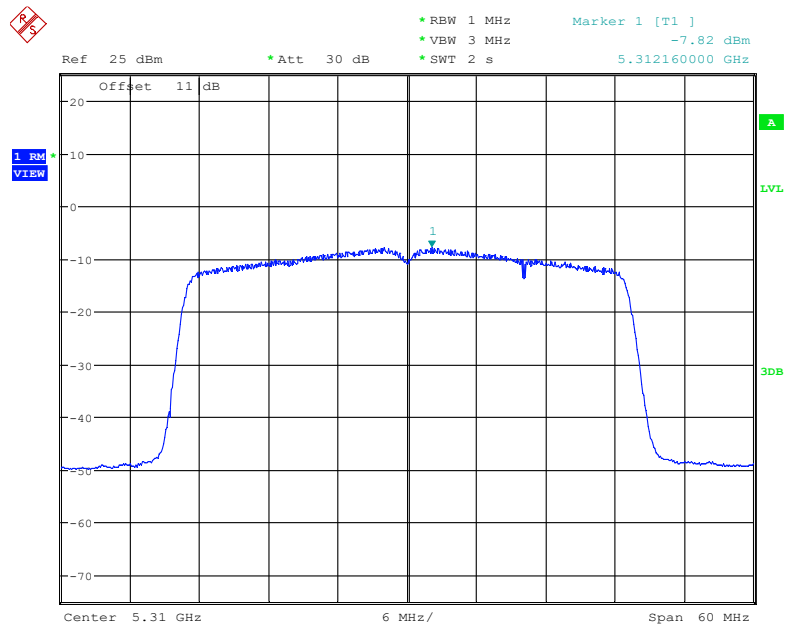
Date: 3.MAR.2023 22:28:24

802. 11ax20 mode, Power Spectral Density, 5320 MHz

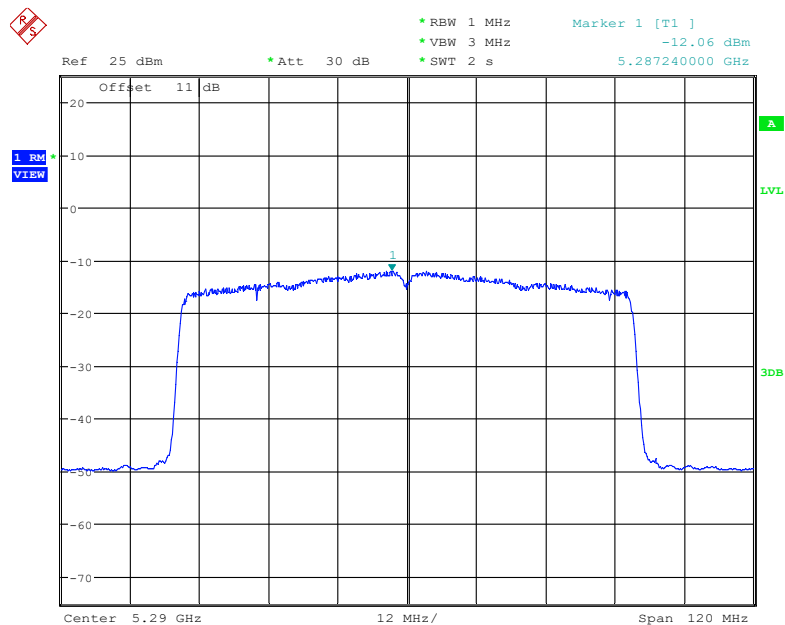
Date: 3.MAR.2023 22:34:13

802. 11ax40 mode, Power Spectral Density, 5270 MHz

Date: 3.MAR.2023 22:49:23

802. 11ax40 mode, Power Spectral Density, 5310 MHz

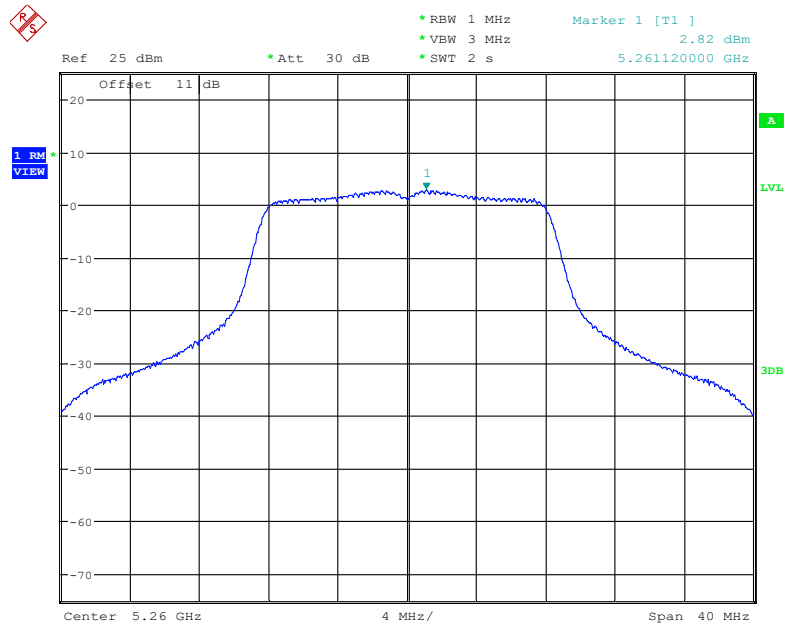
Date: 3.MAR.2023 22:52:36

802. 11ax80 mode, Power Spectral Density, 5290 MHz

Date: 3.MAR.2023 23:15:47

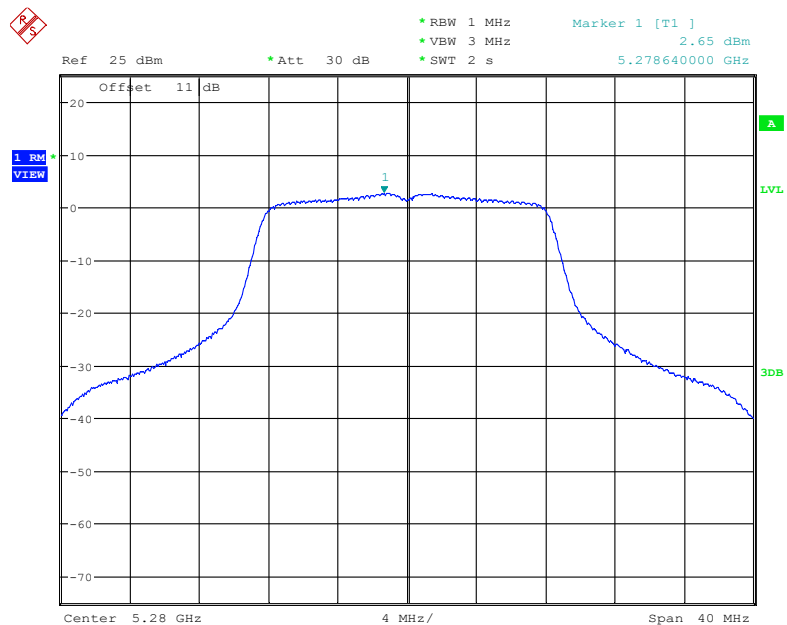
Antenna 2:

802.11a mode, Power Spectral Density, 5260 MHz

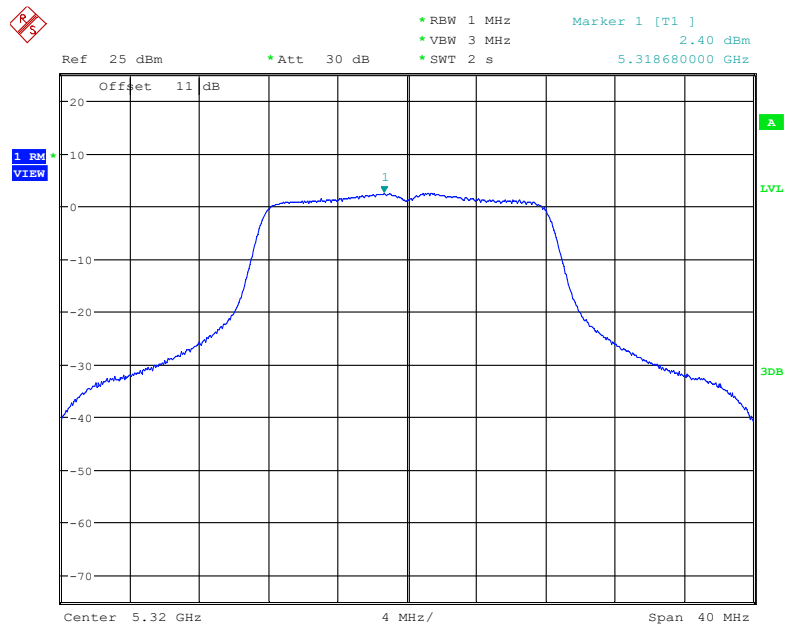


Date: 5.MAR.2023 14:42:42

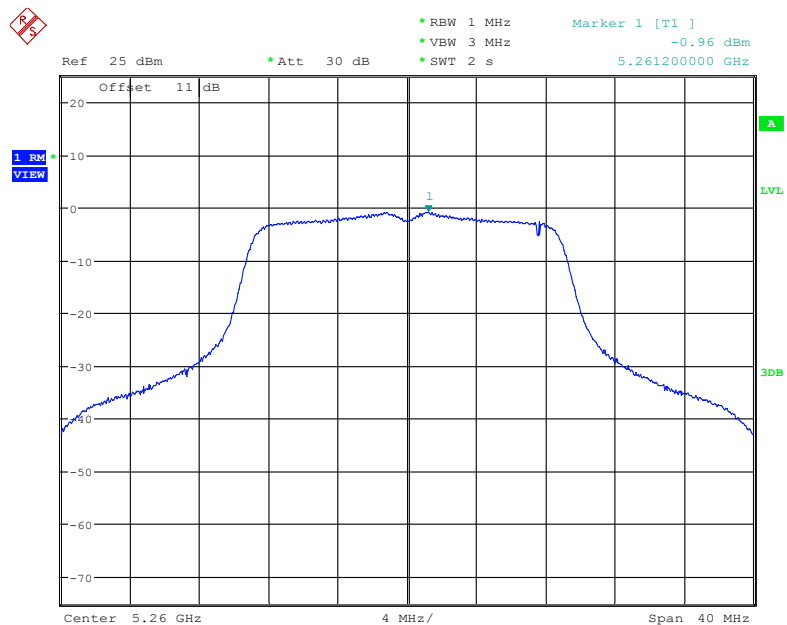
802.11a mode, Power Spectral Density, 5280 MHz



Date: 5.MAR.2023 14:45:05

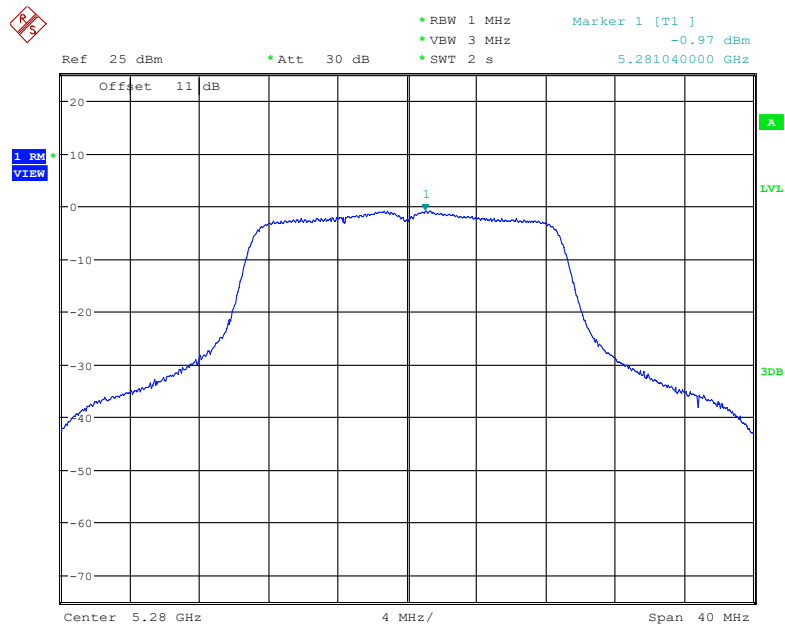
802.11a mode, Power Spectral Density, 5320 MHz

Date: 5.MAR.2023 14:49:32

802.11n20 mode, Power Spectral Density, 5260 MHz

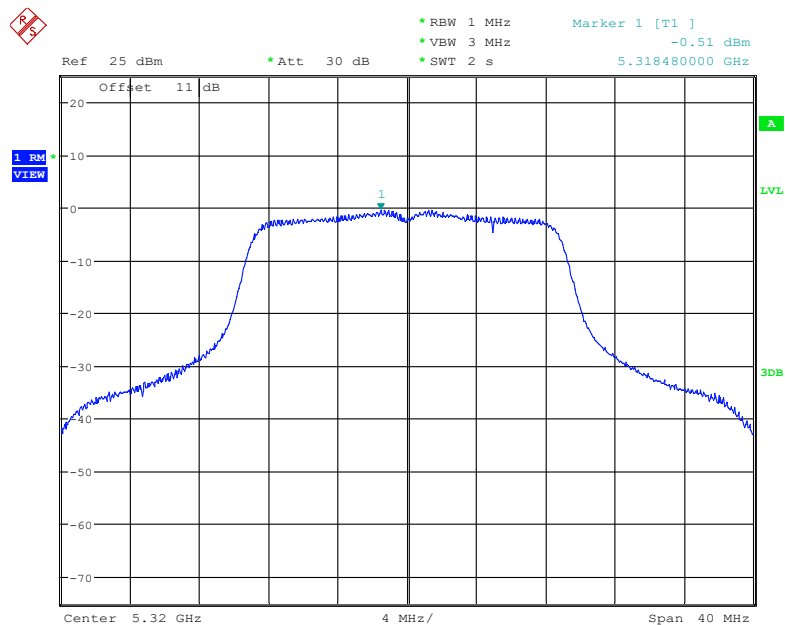
Date: 5.MAR.2023 15:14:00

802.11n20 mode, Power Spectral Density, 5280 MHz



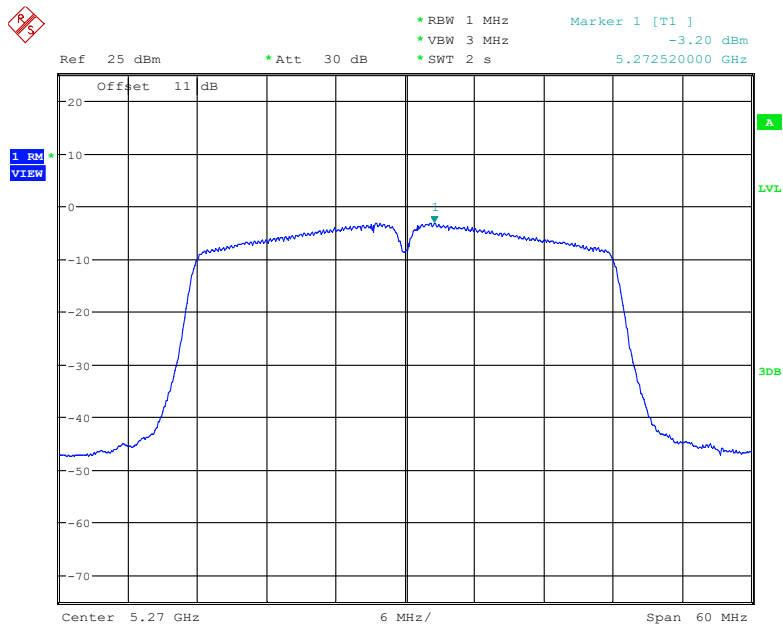
Date: 5.MAR.2023 15:16:51

802.11n20 mode, Power Spectral Density, 5320 MHz



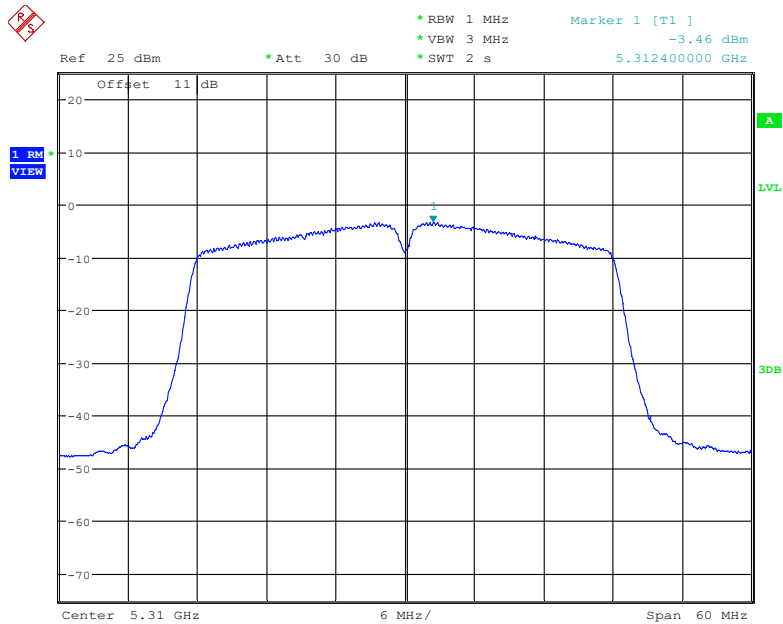
Date: 5.MAR.2023 15:19:35

802.11n40 mode, Power Spectral Density, 5270 MHz



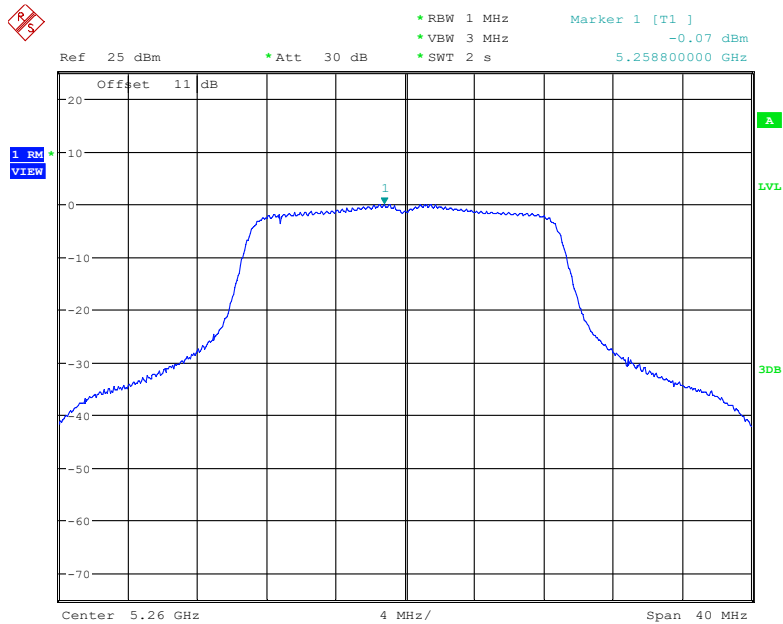
Date: 5.MAR.2023 15:34:52

802.11n40 mode, Power Spectral Density, 5310 MHz



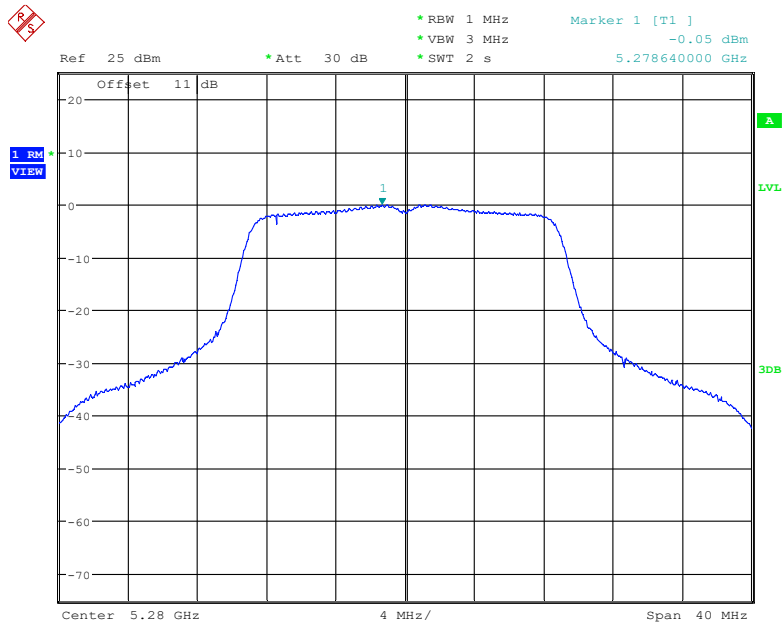
Date: 5.MAR.2023 15:36:51

802.11ac20 mode, Power Spectral Density, 5260 MHz

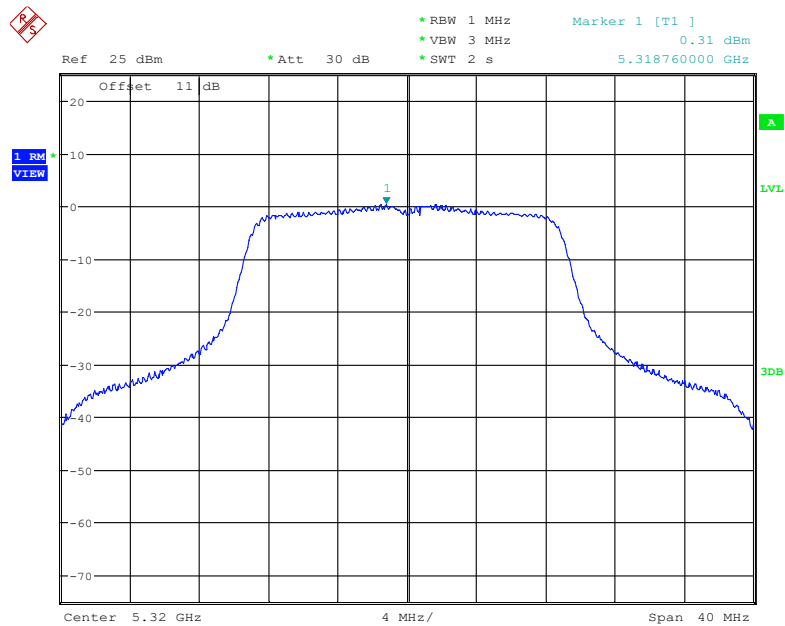


Date: 5.MAR.2023 14:53:01

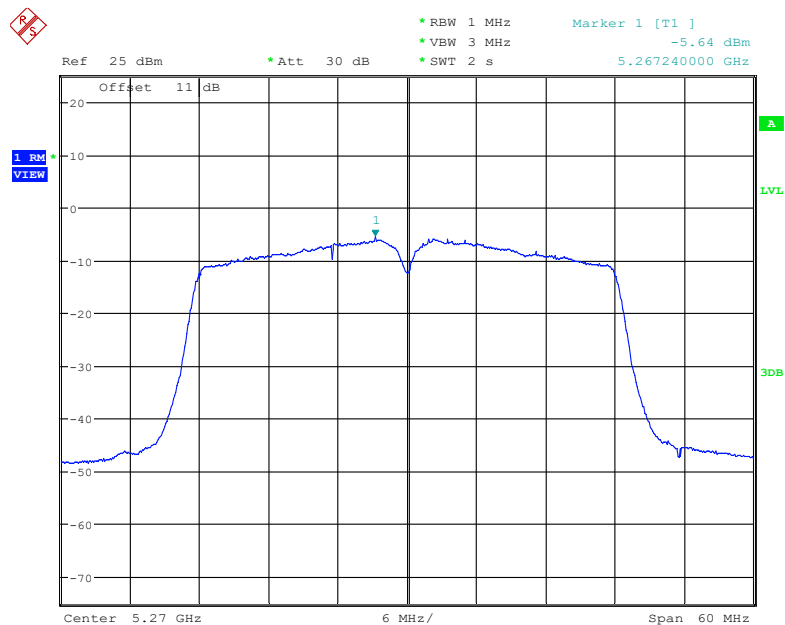
802.11ac20 mode, Power Spectral Density, 5280 MHz



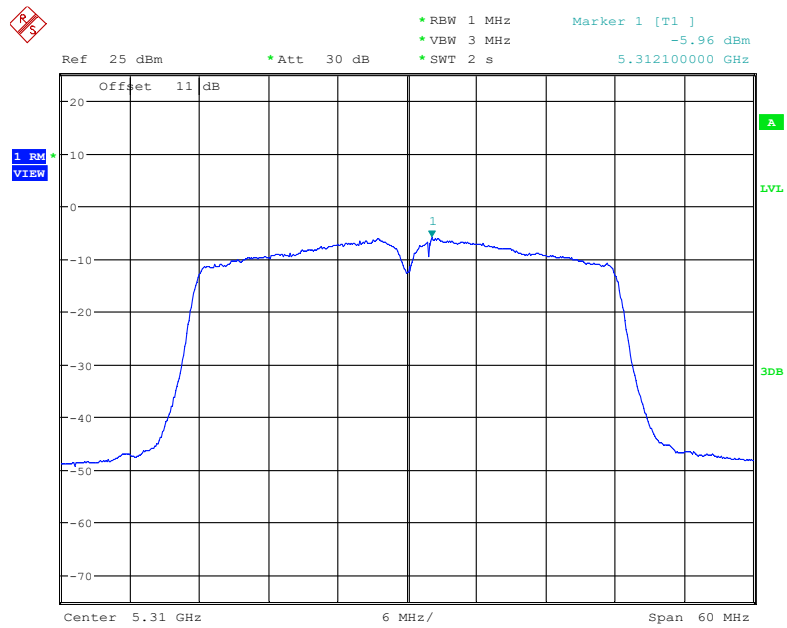
Date: 5.MAR.2023 14:56:36

802.11ac20 mode, Power Spectral Density, 5320 MHz

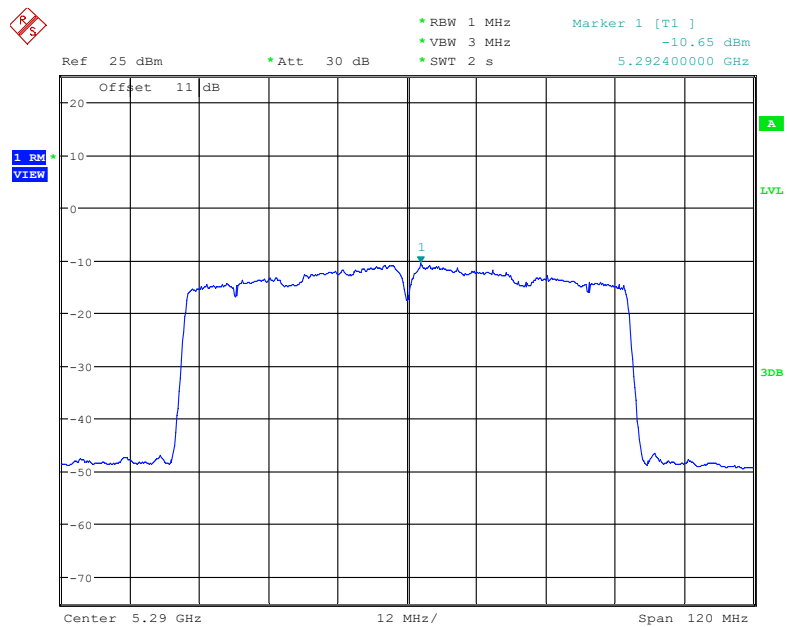
Date: 5.MAR.2023 15:00:14

802.11ac40 mode, Power Spectral Density, 5270 MHz

Date: 5.MAR.2023 15:22:33

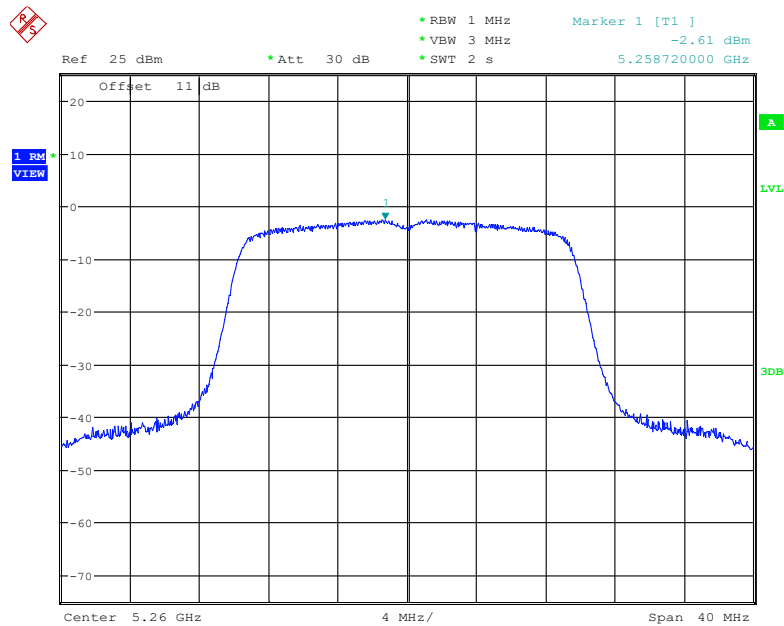
802. 11ac40 mode, Power Spectral Density, 5310 MHz

Date: 5.MAR.2023 15:25:04

802. 11ac80 mode, Power Spectral Density, 5290 MHz

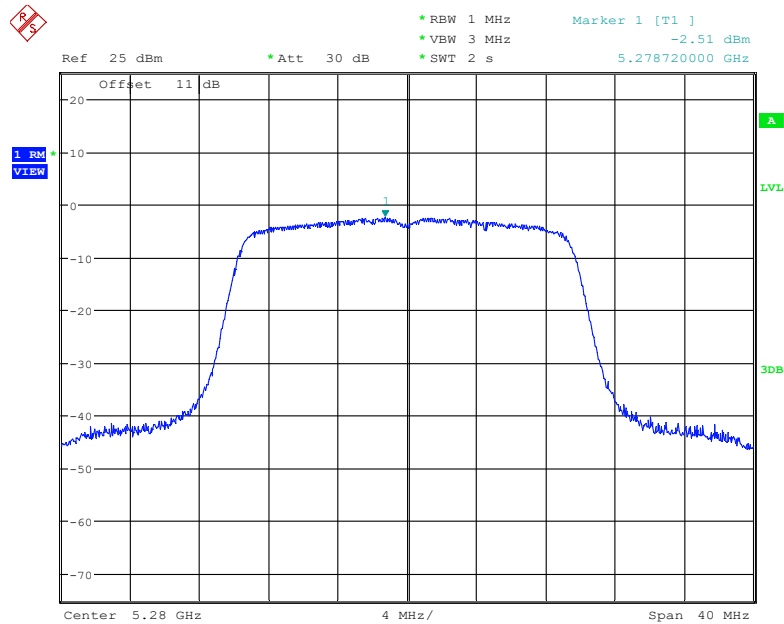
Date: 5.MAR.2023 15:39:51

802.11ax20 mode, Power Spectral Density, 5260 MHz

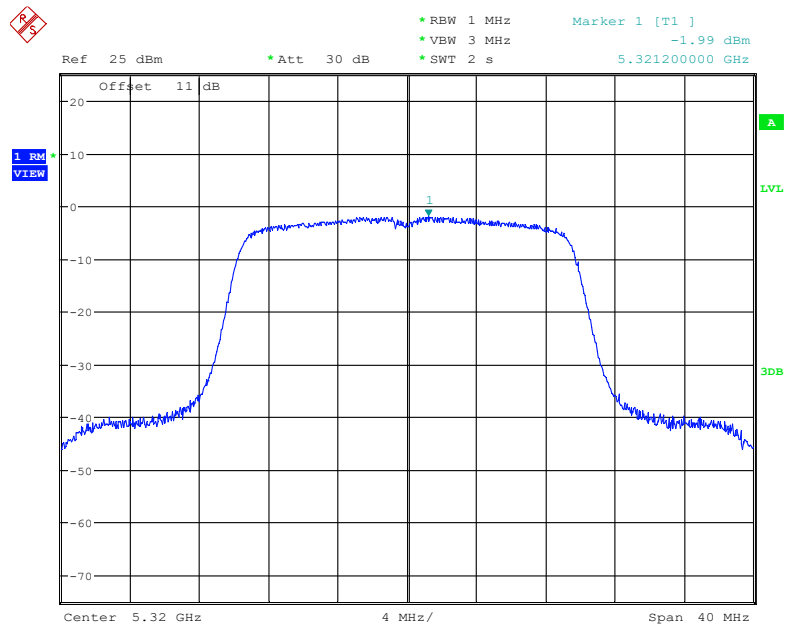


Date: 5.MAR.2023 15:07:33

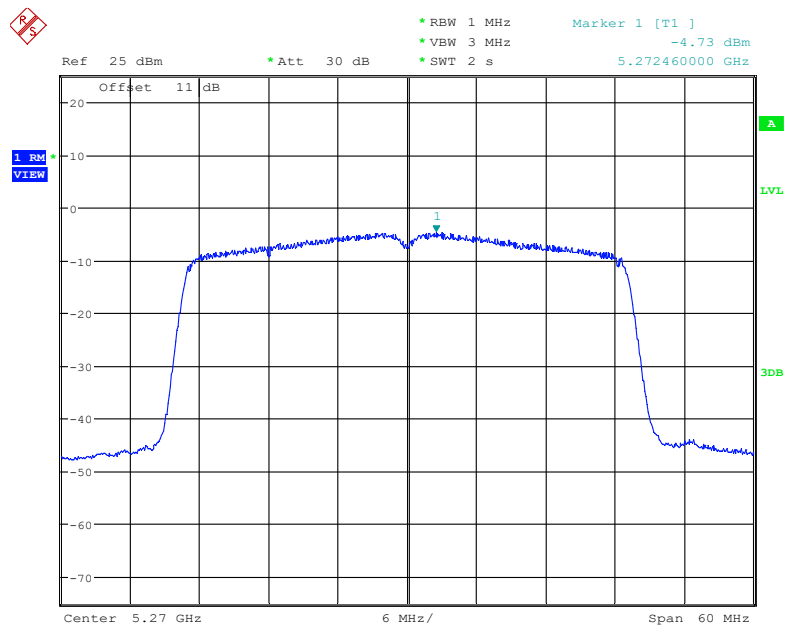
802.11ax20 mode, Power Spectral Density, 5280 MHz



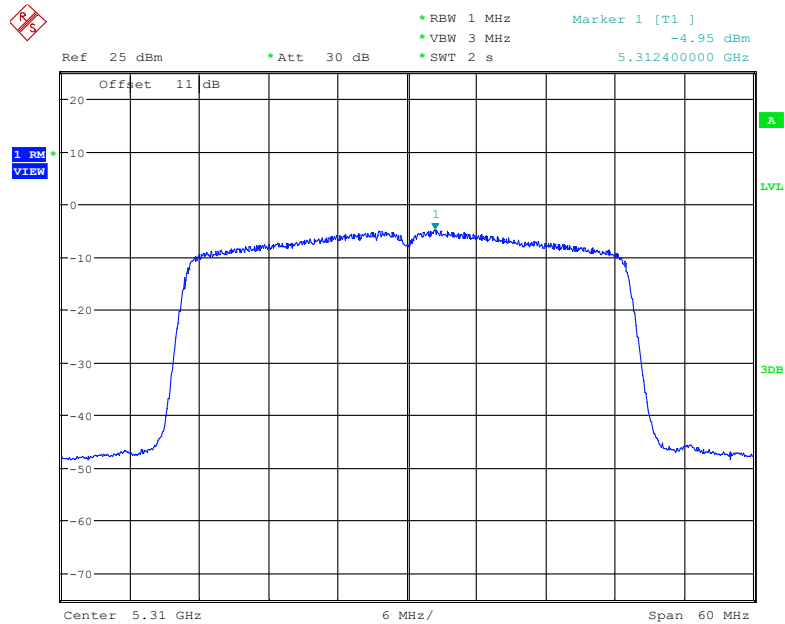
Date: 5.MAR.2023 15:11:21

802. 11ax20 mode, Power Spectral Density, 5320 MHz

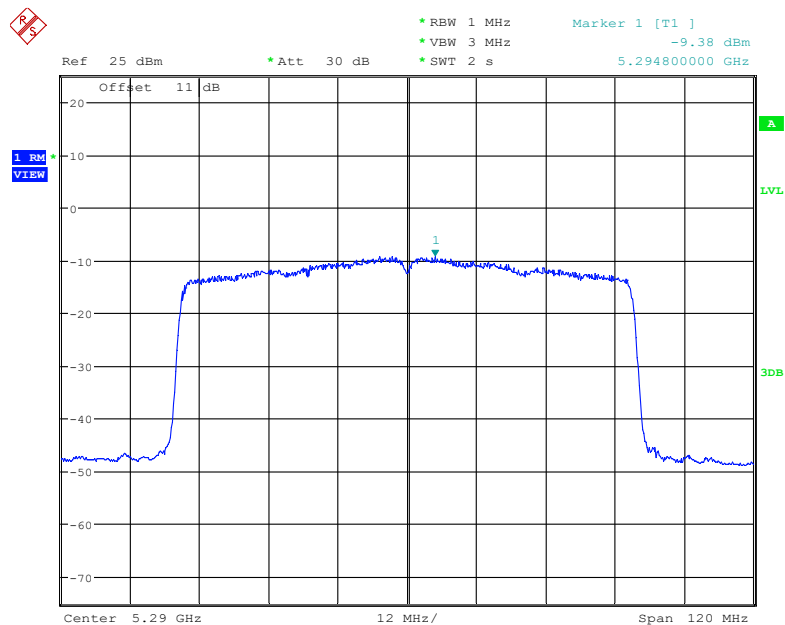
Date: 5.MAR.2023 15:04:09

802. 11ax40 mode, Power Spectral Density, 5270 MHz

Date: 5.MAR.2023 15:32:21

802. 11ax40 mode, Power Spectral Density, 5310 MHz

Date: 5.MAR.2023 15:27:31

802. 11ax80 mode, Power Spectral Density, 5290 MHz

Date: 5.MAR.2023 15:44:01

5470 MHz – 5725 MHz:

Frequency (MHz)	Antenna Port	PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)
802.11a				
5500	1	1.10	/	11
	2	0.99		
5580	1	-2.20	/	
	2	0.18		
5700	1	4.06	/	
	2	2.94		
802.11n20				
5500	1	-2.24	1.55	9.02
	2	-0.80		
5580	1	-5.60	-0.17	
	2	-1.63		
5700	1	0.05	2.55	
	2	-1.04		
802.11n40				
5510	1	-7.18	-2.32	9.02
	2	-4.03		
5550	1	-6.75	-4.47	
	2	-8.36		
5670	1	-4.43	-1.16	
	2	-3.92		
802.11ac20				
5500	1	-1.31	1.85	9.02
	2	-1.02		
5580	1	-4.75	-0.27	
	2	-2.18		
5700	1	1.24	2.87	
	2	-2.19		
802.11ac40				
5510	1	-8.47	-4.41	9.02
	2	-6.57		
5550	1	-7.88	-2.97	
	2	-4.66		
5670	1	-5.77	-2.34	
	2	-4.96		
802.11ac80				
5530	1	-16.19	-8.78	9.02
	2	-9.65		
5610	1	-10.06	-8.93	
	2	-15.33		

Frequency (MHz)	Antenna Port	PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)
802.11ax20				
5500	1	-3.73	0.17	9.02
	2	-2.10		
5580	1	-7.24	-1.51	
	2	-2.86		
5700	1	-1.44	1.47	
	2	-1.65		
802.11ax40				
5510	1	-8.61	-3.72	9.02
	2	-5.43		
5550	1	-8.29	-3.29	
	2	-4.94		
5670	1	-5.88	-2.48	
	2	-5.14		
802.11ax80				
5530	1	-13.83	-8.71	9.02
	2	-10.30		
5610	1	-10.05	-8.70	
	2	-14.43		

Note:

The device employ CDD for 802.11n/ac/ax mode.

Direction Gain = $G_{ANT} + \text{Array Gain}$

For PSD measurement,

Array Gain = $10 \cdot \log(N_{ANT})$

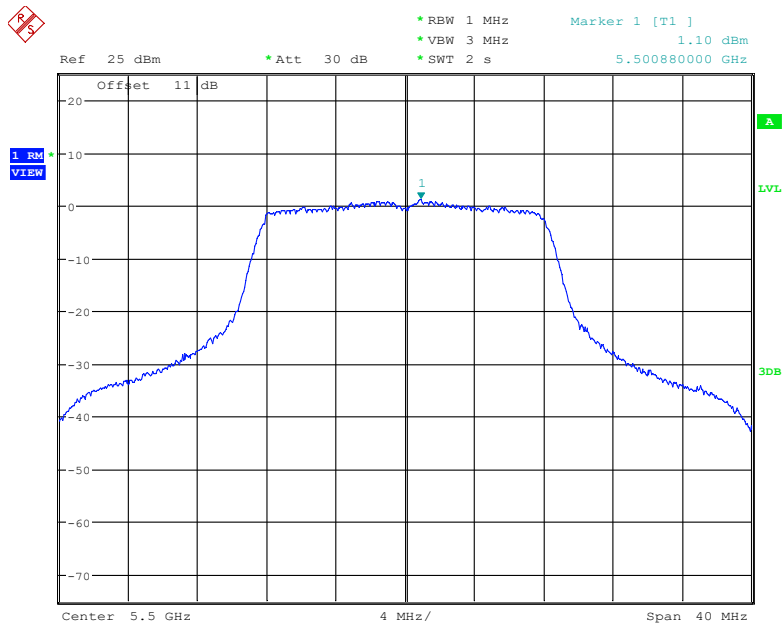
$G_{ANT}=4.98\text{dBi}$, $N_{ANT}=2$

Direction gain= $4.98\text{dBi}+10 \cdot \log(2)=7.98>6\text{dBi}$

So for 802.11n/ac/ax mode, the limit should reduce 1.98dB.

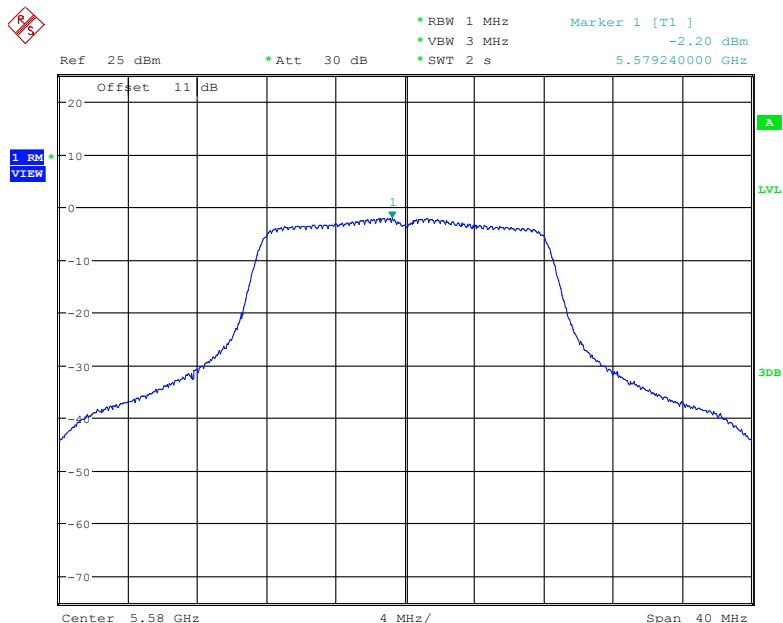
Antenna 1

802.11a mode, Power Spectral Density, 5500 MHz



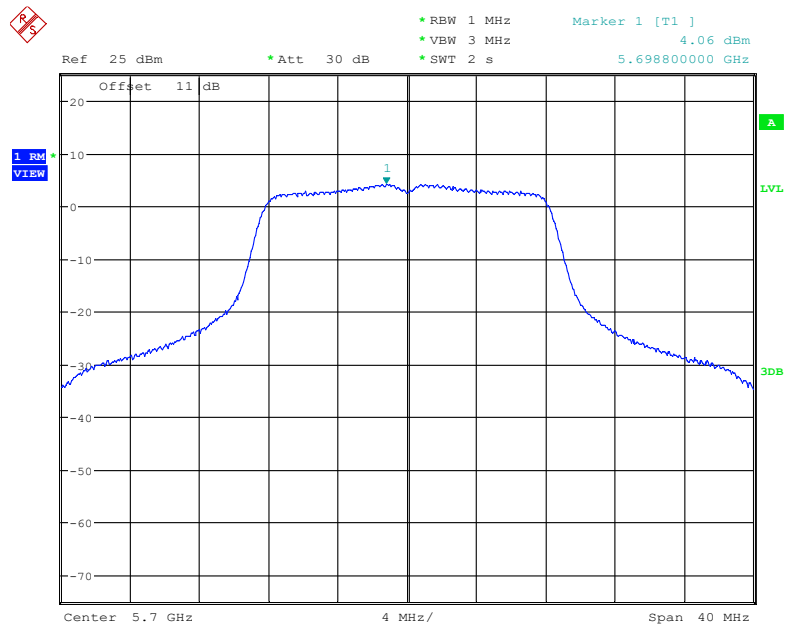
Date: 3.MAR.2023 23:27:32

802.11a mode, Power Spectral Density, 5580MHz



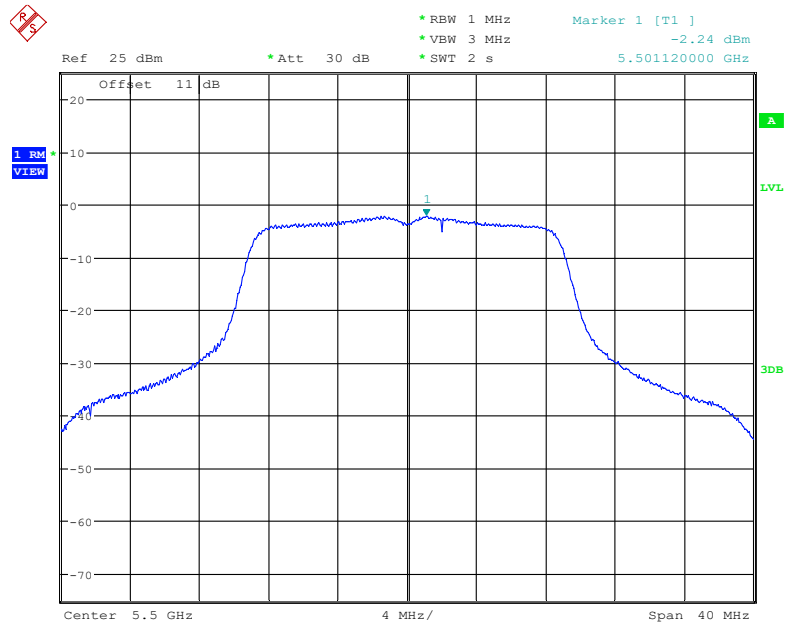
Date: 3.MAR.2023 23:30:56

802.11a mode, Power Spectral Density, 5700 MHz

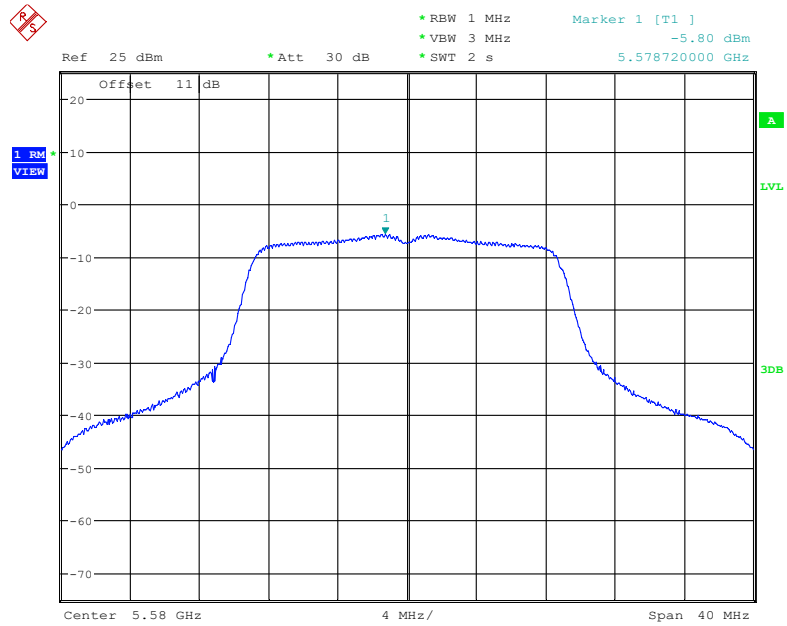


Date: 3.MAR.2023 23:34:40

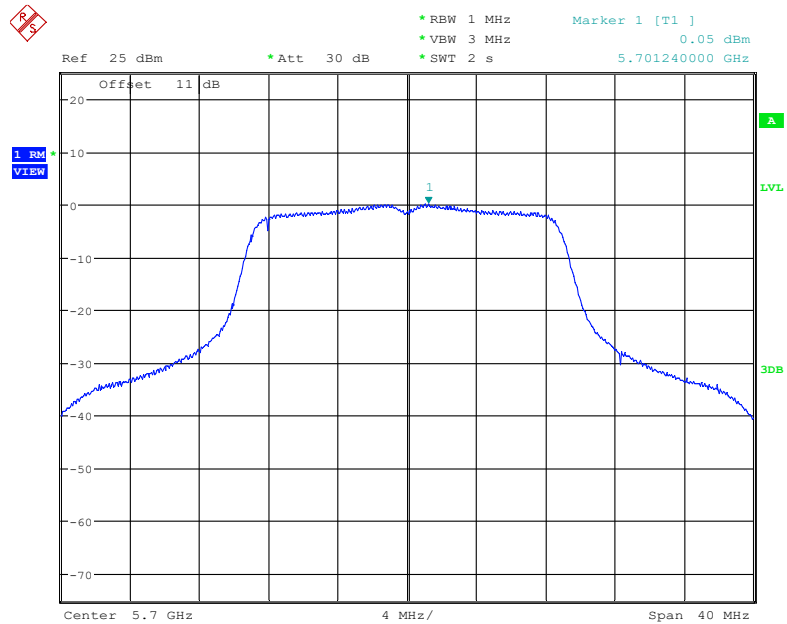
802.11n20 mode, Power Spectral Density, 5500 MHz



Date: 4.MAR.2023 00:16:40

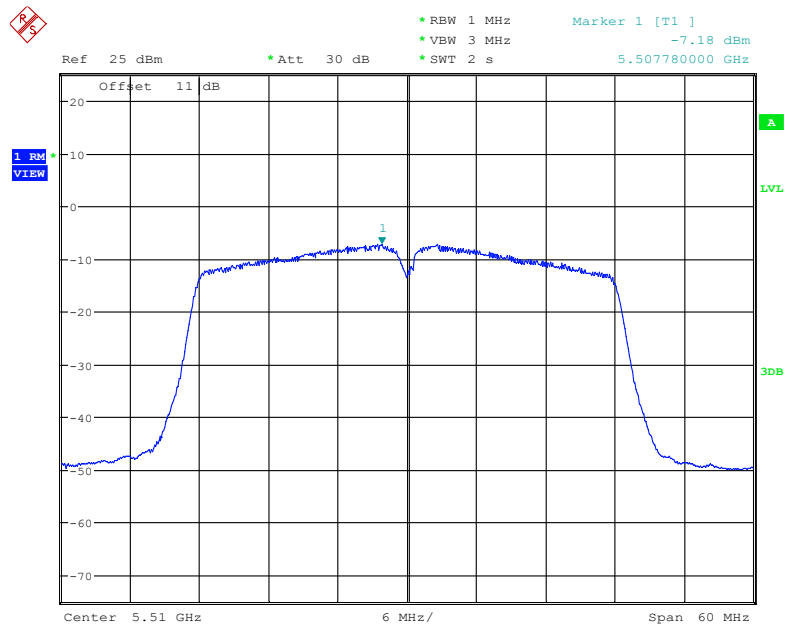
802.11n20 mode, Power Spectral Density, 5580 MHz

Date: 4.MAR.2023 00:20:16

802.11n20 mode, Power Spectral Density, 5700 MHz

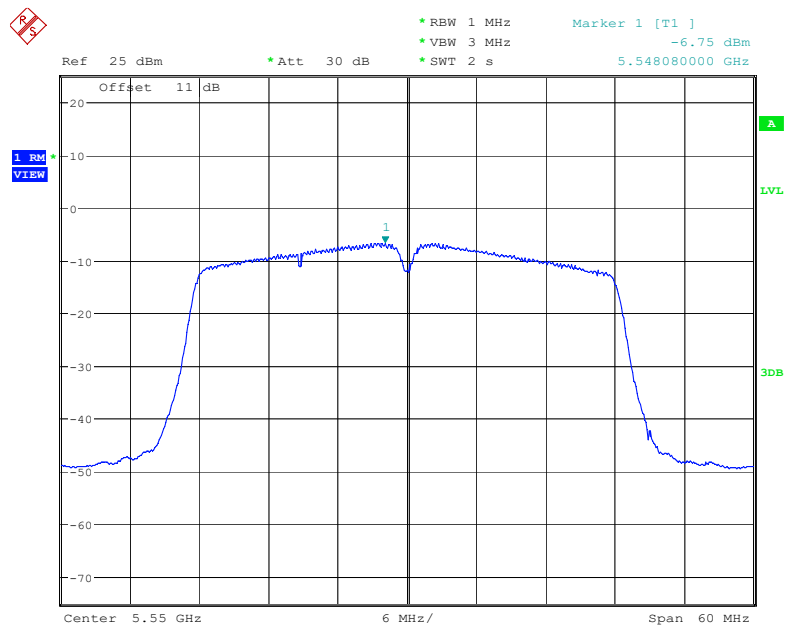
Date: 4.MAR.2023 00:23:36

802.11n40 mode, Power Spectral Density, 5510 MHz

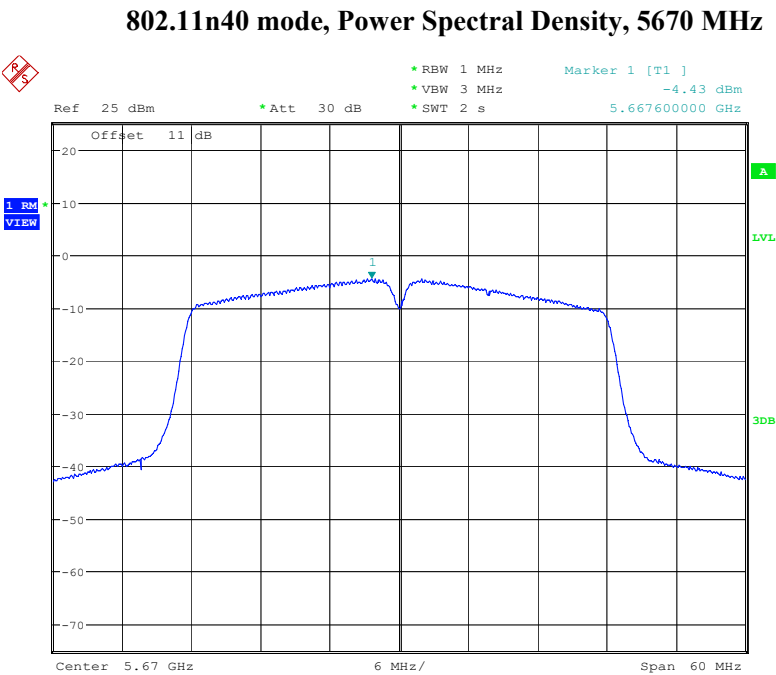


Date: 4.MAR.2023 00:51:38

802.11n40 mode, Power Spectral Density, 5550 MHz



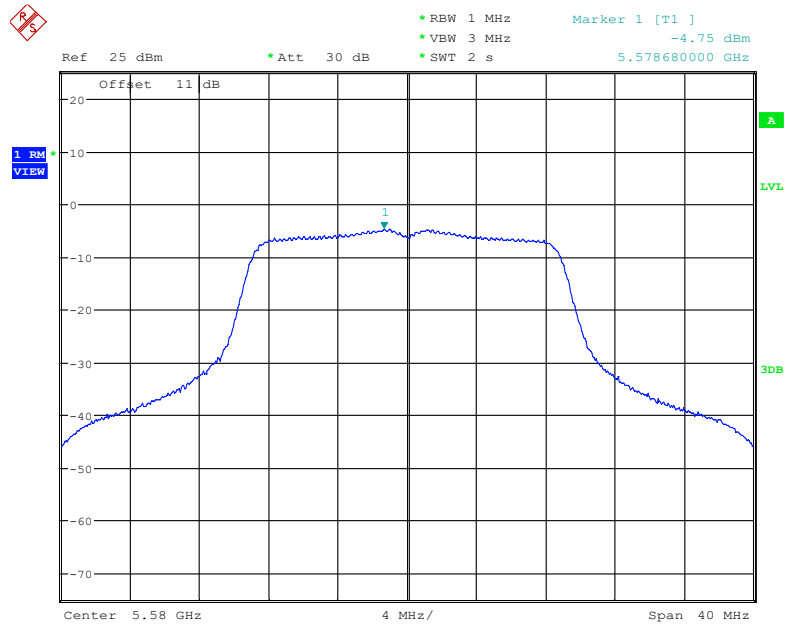
Date: 6.MAR.2023 20:57:52



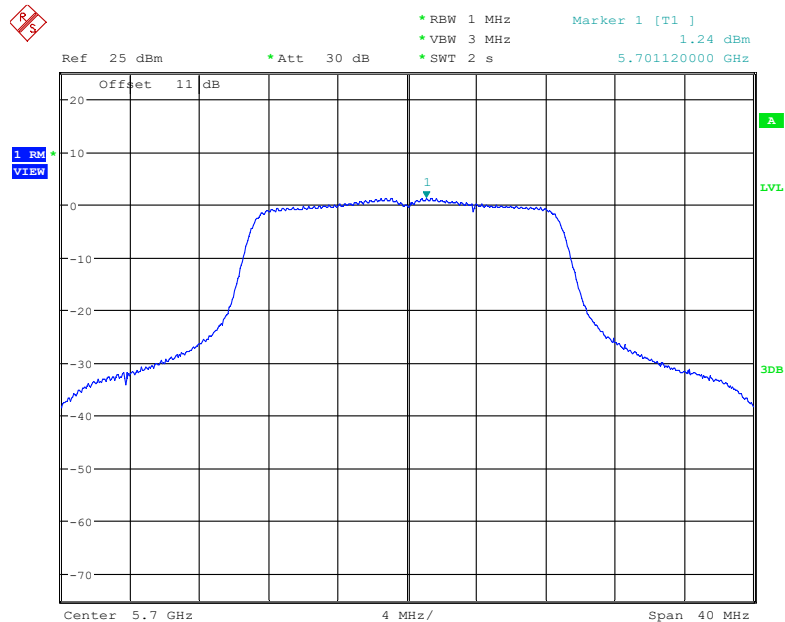
Date: 6.MAR.2023 21:00:25



Date: 3.MAR.2023 23:43:06

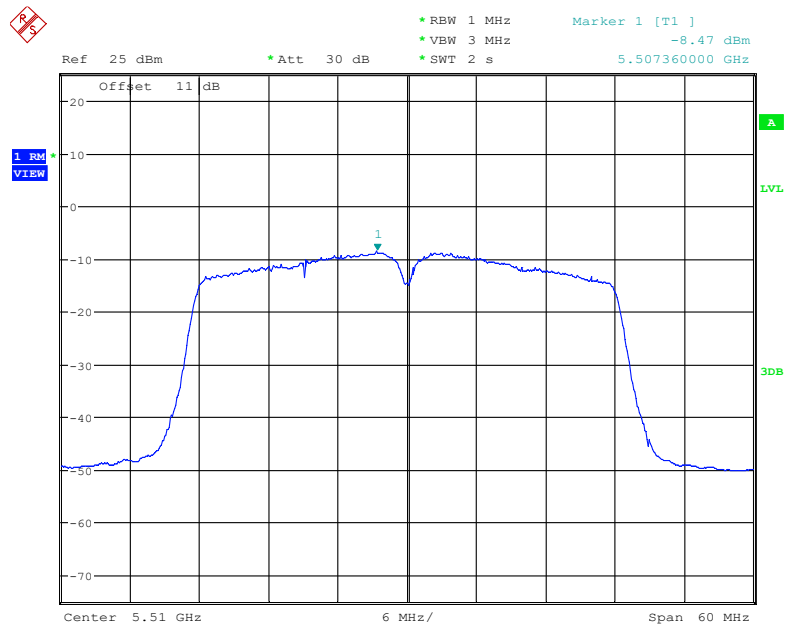
802.11ac20 mode, Power Spectral Density, 5580MHz

Date: 3.MAR.2023 23:46:31

802.11ac20 mode, Power Spectral Density, 5700 MHz

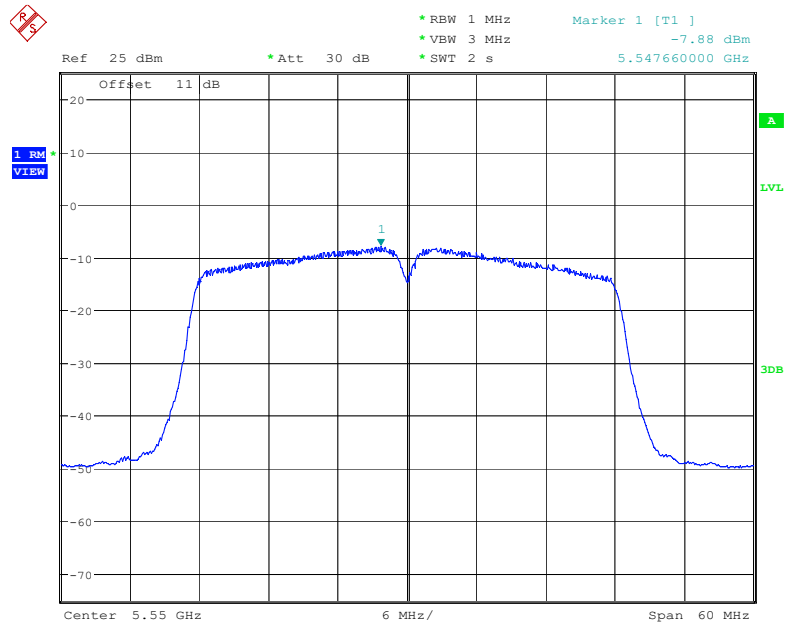
Date: 3.MAR.2023 23:51:15

802. 11ac40 mode, Power Spectral Density, 5510 MHz

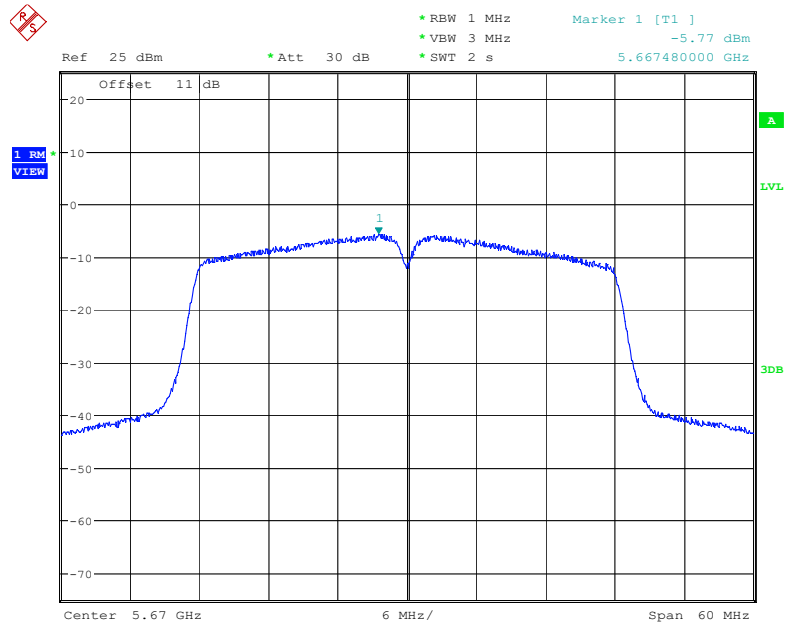


Date: 4.MAR.2023 00:30:52

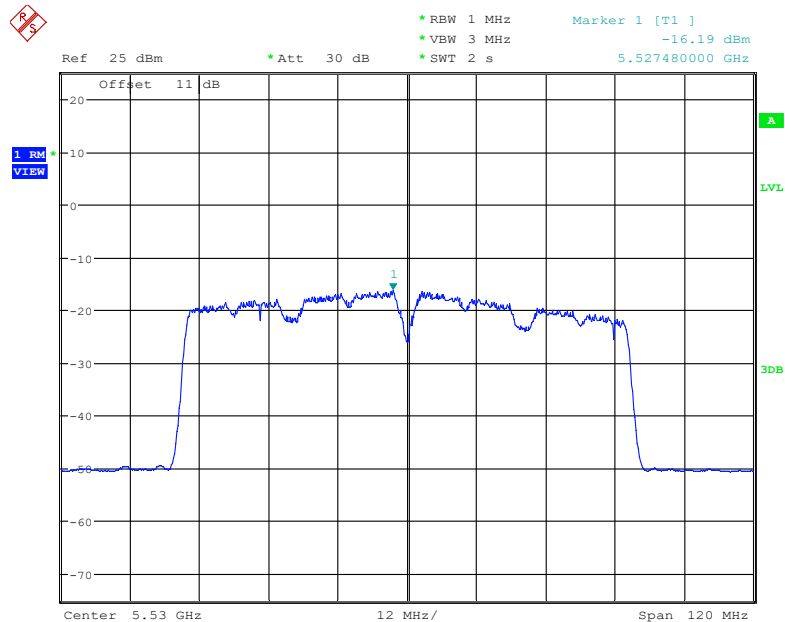
802. 11ac40 mode, Power Spectral Density, 5550 MHz



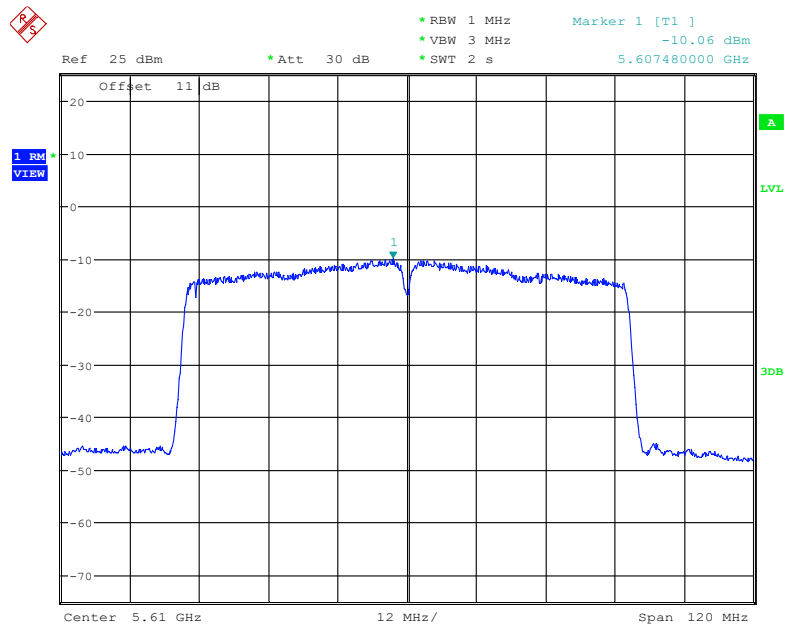
Date: 6.MAR.2023 20:54:45

802. 11ac40 mode, Power Spectral Density, 5670 MHz

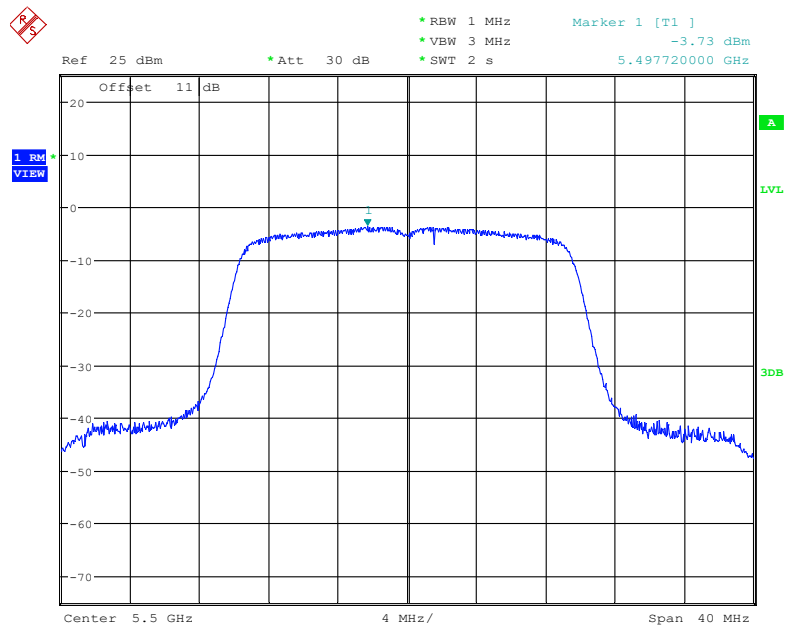
Date: 6.MAR.2023 20:52:27

802. 11ac80 mode, Power Spectral Density, 5530 MHz

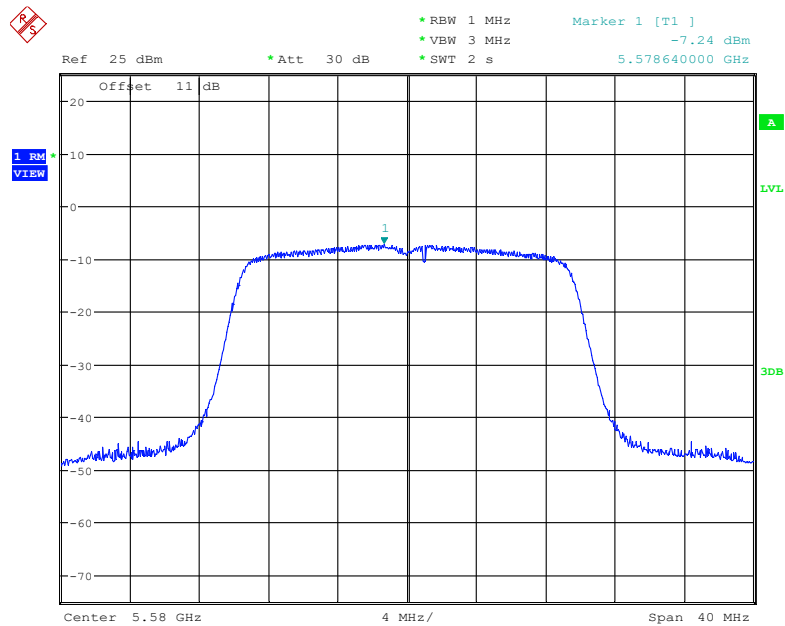
Date: 5.MAR.2023 10:08:26

802.11ac80 mode, Power Spectral Density, 5610 MHz

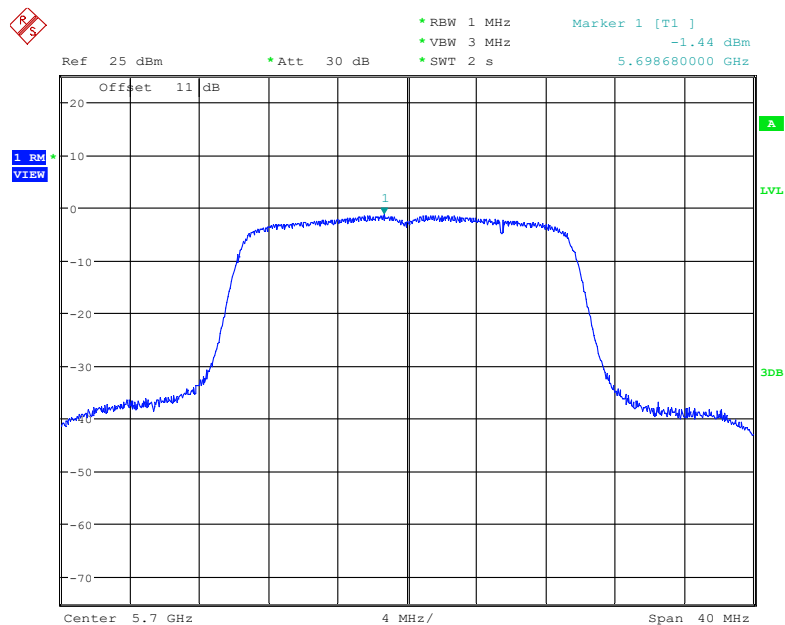
Date: 3.APR.2023 15:08:11

802.11ax20 mode, Power Spectral Density, 5500 MHz

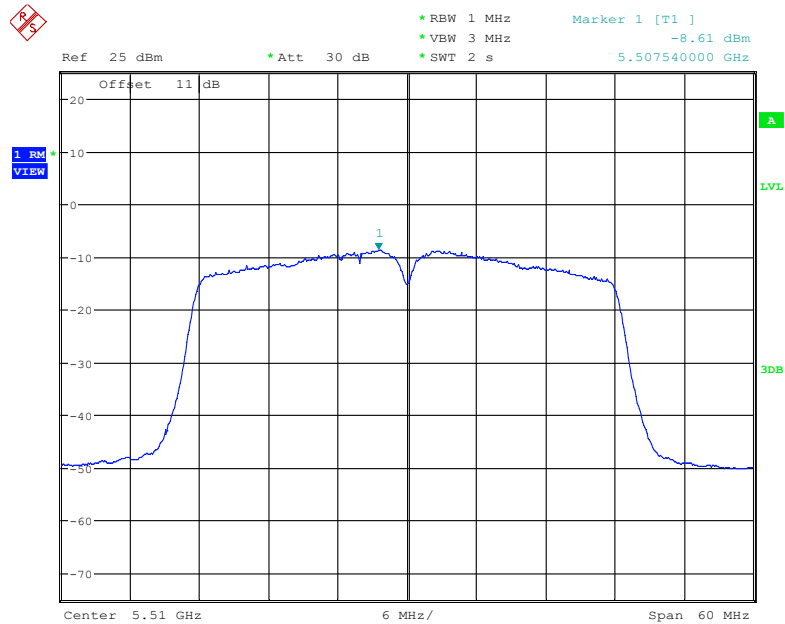
Date: 3.MAR.2023 23:59:24

802. 11ax20 mode, Power Spectral Density, 5580 MHz

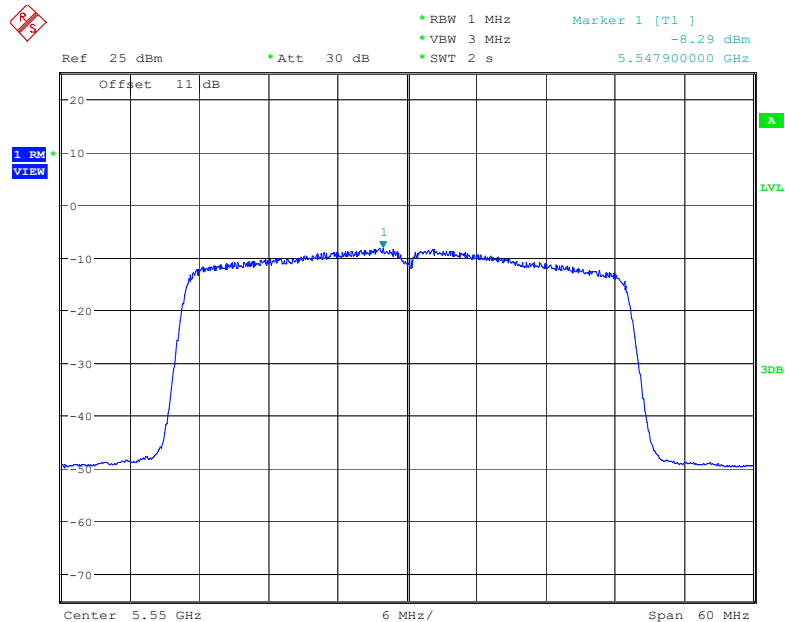
Date: 4.MAR.2023 00:06:18

802. 11ax20 mode, Power Spectral Density, 5700 MHz

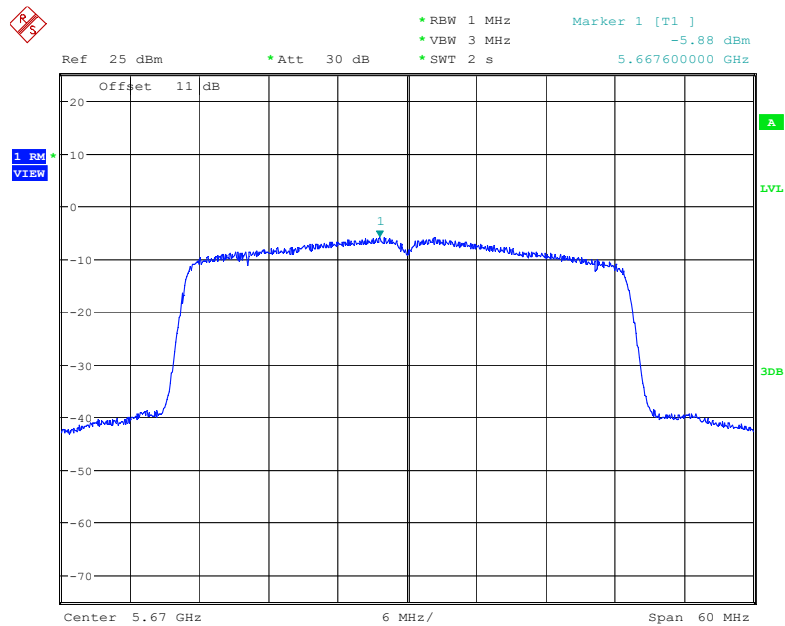
Date: 4.MAR.2023 00:10:39

802. 11ax40 mode, Power Spectral Density, 5510 MHz

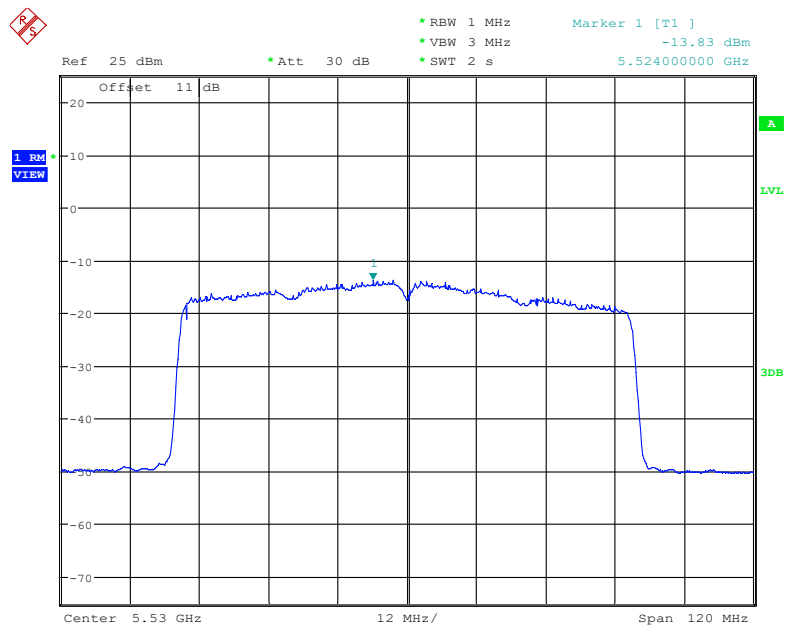
Date: 4.MAR.2023 00:40:24

802. 11ax40 mode, Power Spectral Density, 5550 MHz

Date: 6.MAR.2023 20:44:39

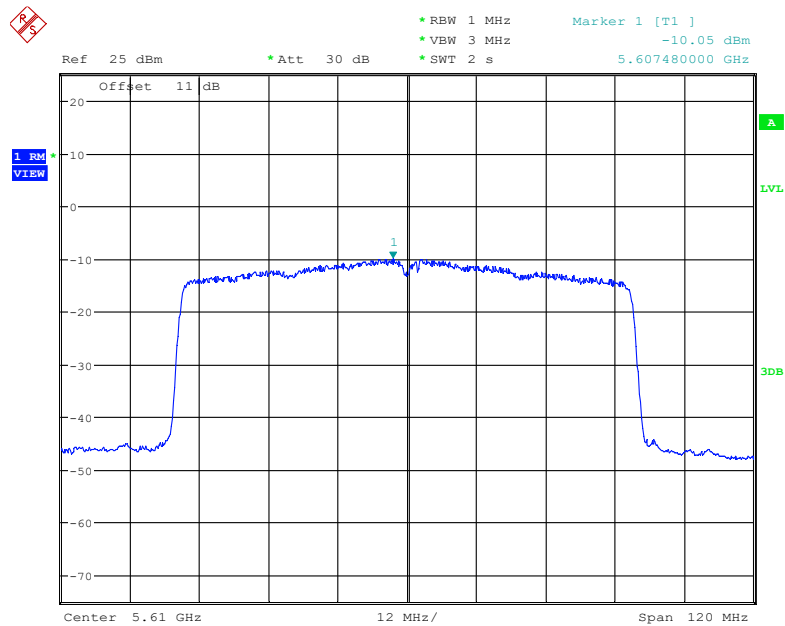
802. 11ax40 mode, Power Spectral Density, 5670 MHz

Date: 6.MAR.2023 20:49:54

802. 11ax80 mode, Power Spectral Density, 5530 MHz

Date: 5.MAR.2023 10:40:11

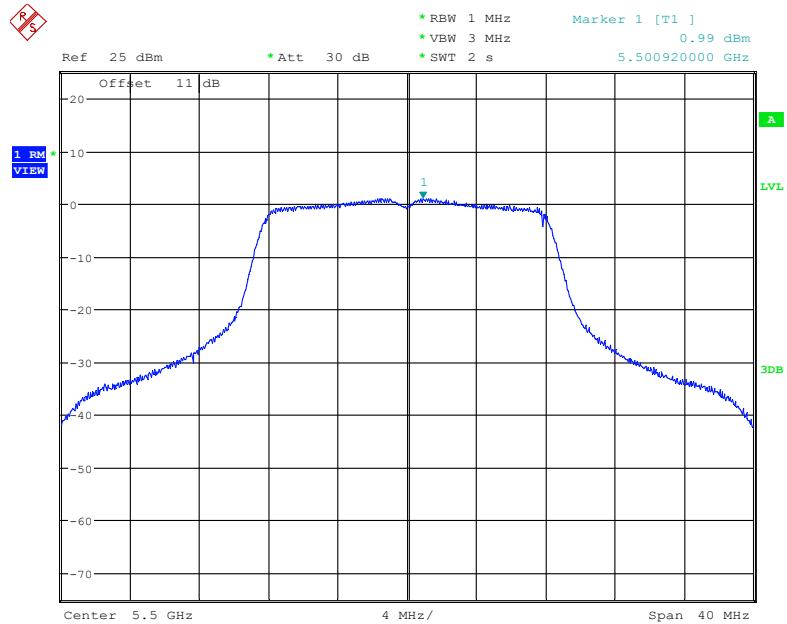
802. 11ax80 mode, Power Spectral Density, 5610 MHz



Date: 3.APR.2023 15:05:28

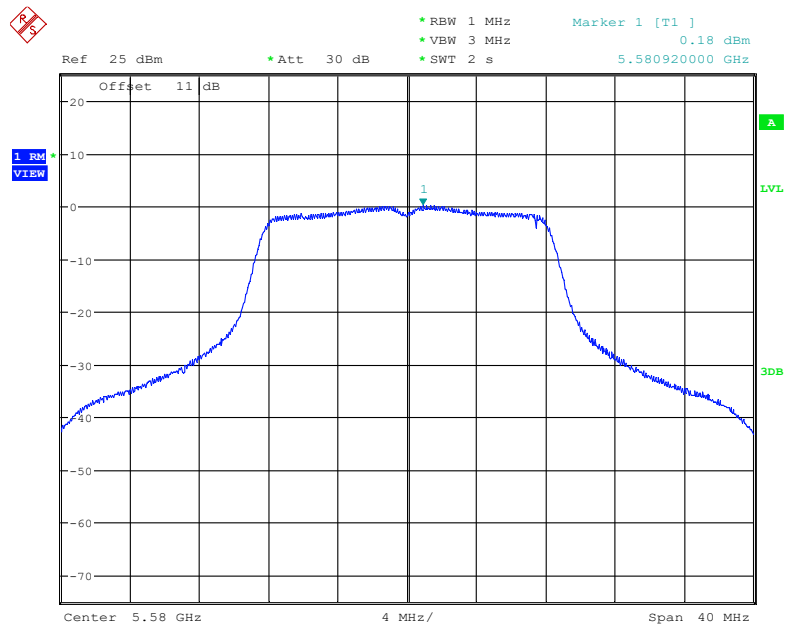
Antenna 2

802.11a mode, Power Spectral Density, 5500 MHz



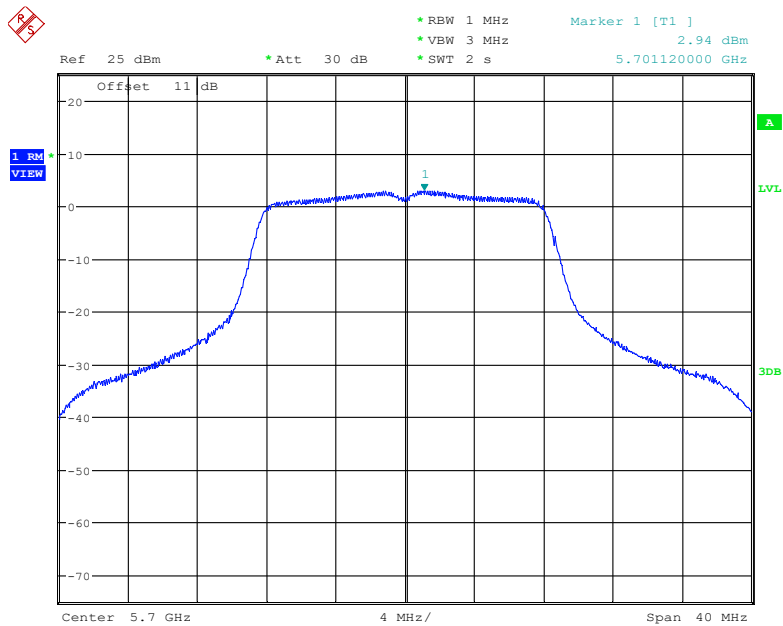
Date: 5.MAR.2023 15:53:06

802.11a mode, Power Spectral Density, 5580 MHz



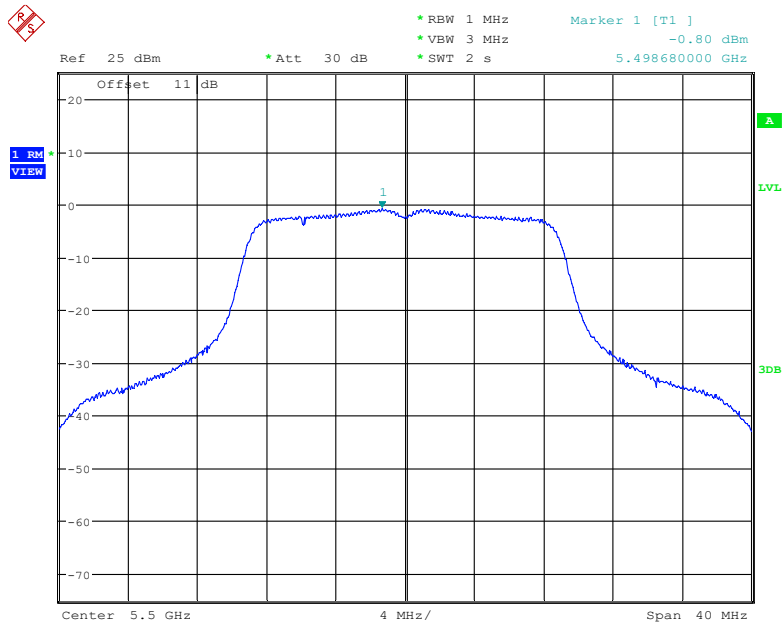
Date: 5.MAR.2023 15:56:30

802.11a mode, Power Spectral Density, 5700 MHz



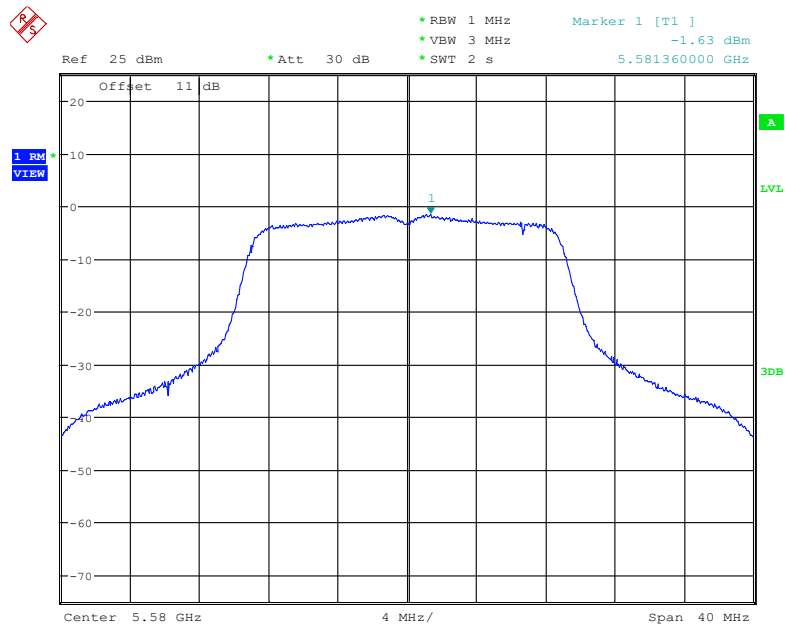
Date: 5.MAR.2023 16:07:44

802.11n20 mode, Power Spectral Density, 5500 MHz



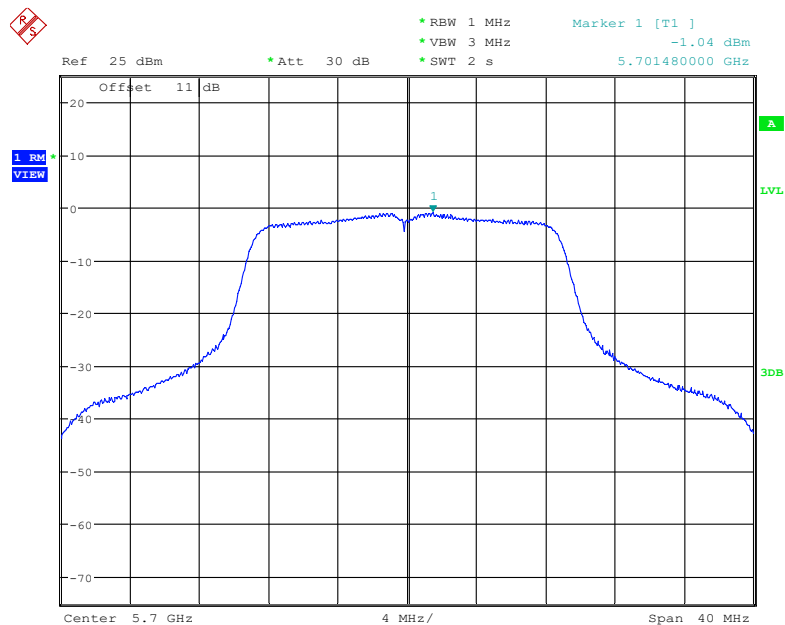
Date: 5.MAR.2023 16:35:06

802.11n20 mode, Power Spectral Density, 5580 MHz



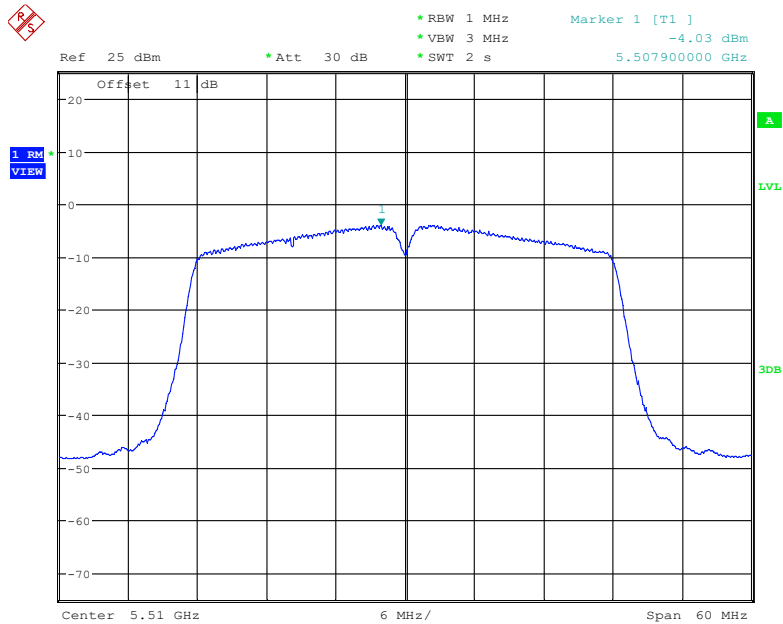
Date: 5.MAR.2023 16:37:36

802.11n20 mode, Power Spectral Density, 5700 MHz



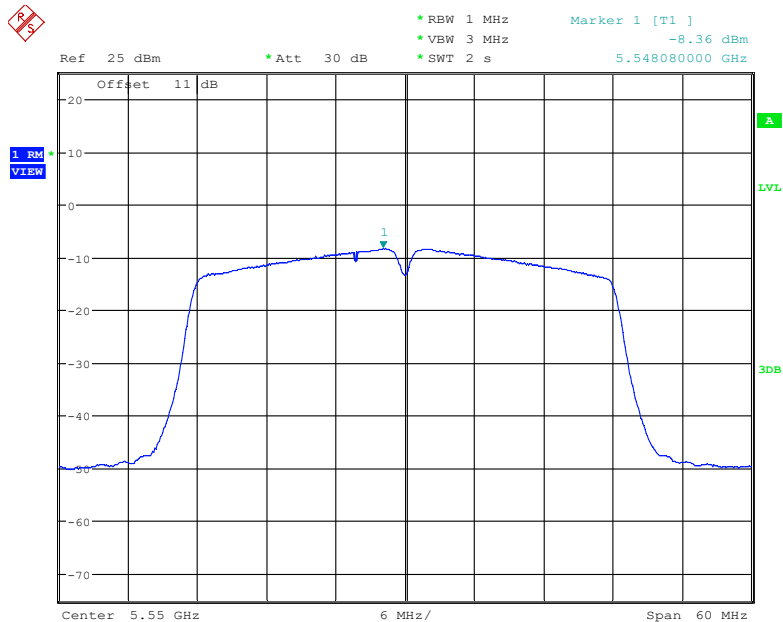
Date: 5.MAR.2023 16:41:27

802.11n40 mode, Power Spectral Density, 5510 MHz

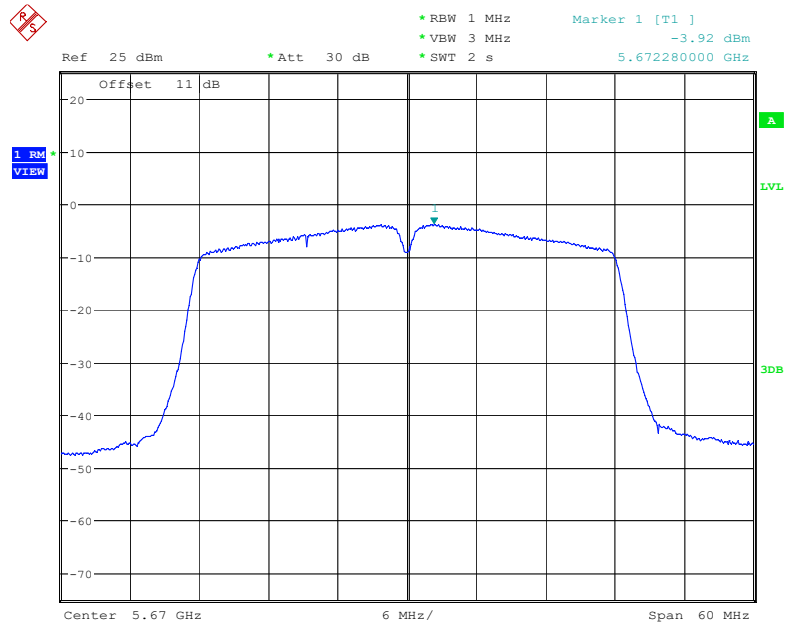


Date: 5.MAR.2023 17:10:26

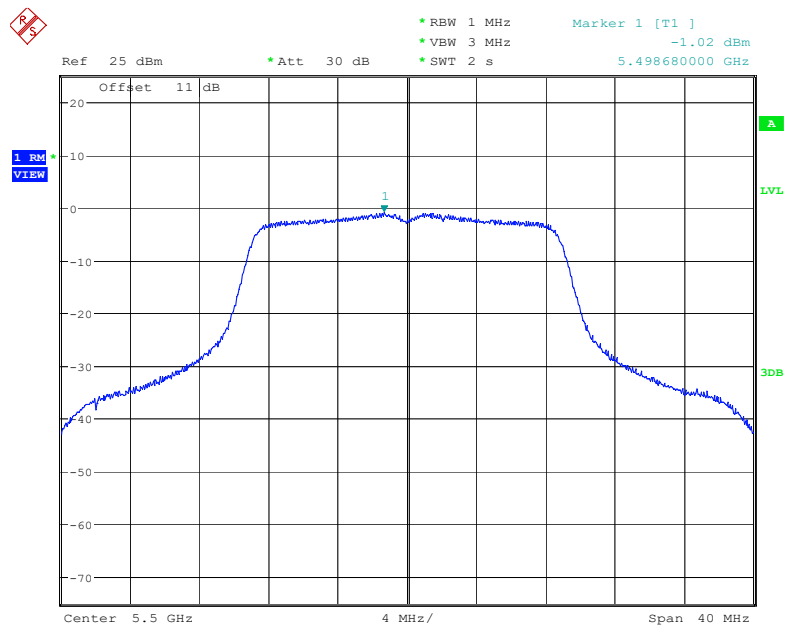
802.11n40 mode, Power Spectral Density, 5550 MHz



Date: 3.APR.2023 14:51:33

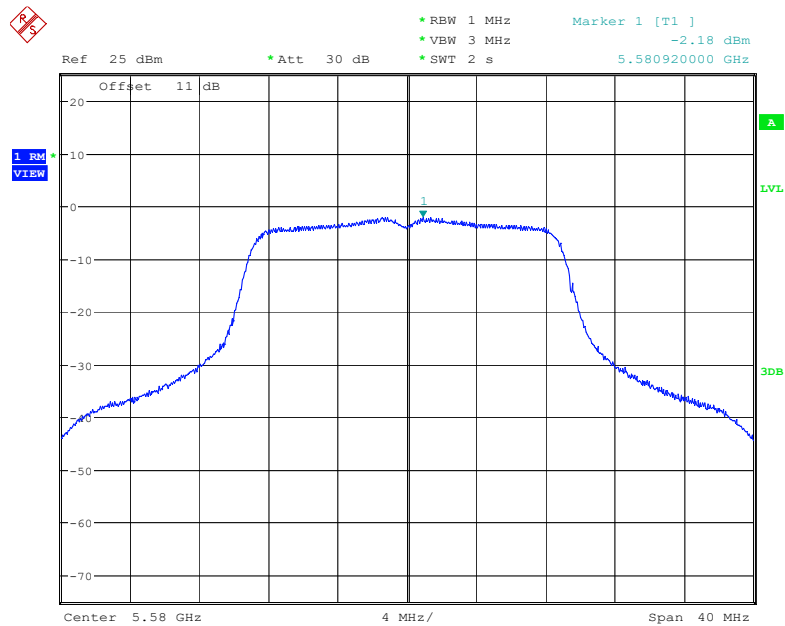
802.11n40 mode, Power Spectral Density, 5670 MHz

Date: 6.MAR.2023 20:21:57

802.11ac20 mode, Power Spectral Density, 5500 MHz

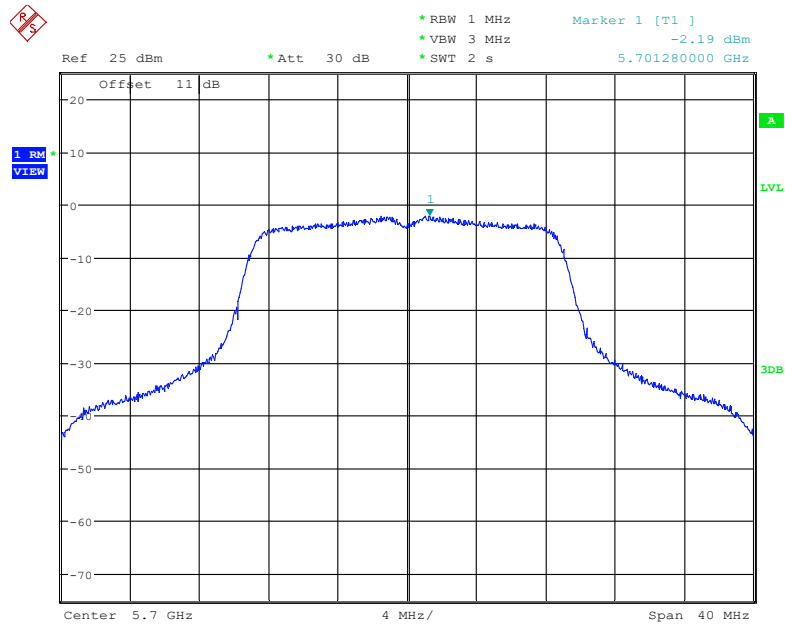
Date: 6.MAR.2023 21:27:04

802. 11ac20 mode, Power Spectral Density, 5580 MHz

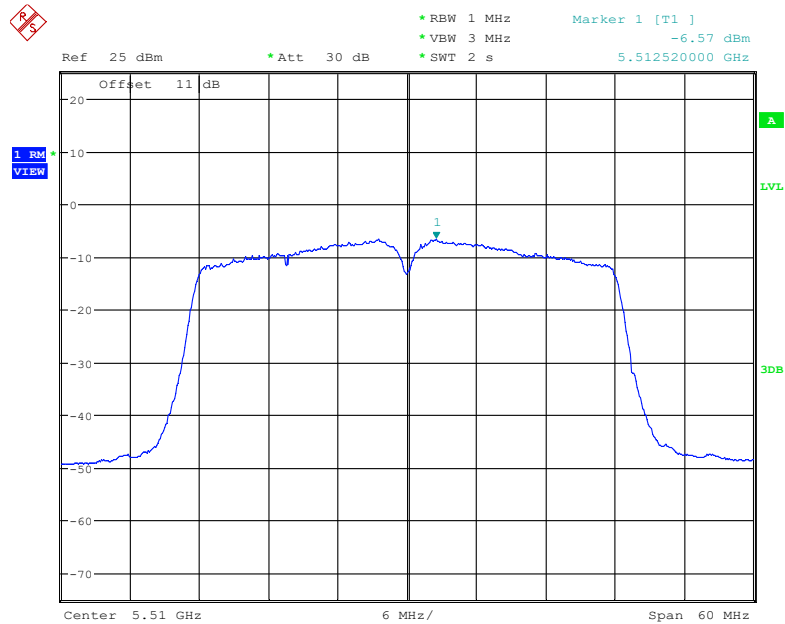


Date: 6.MAR.2023 21:38:03

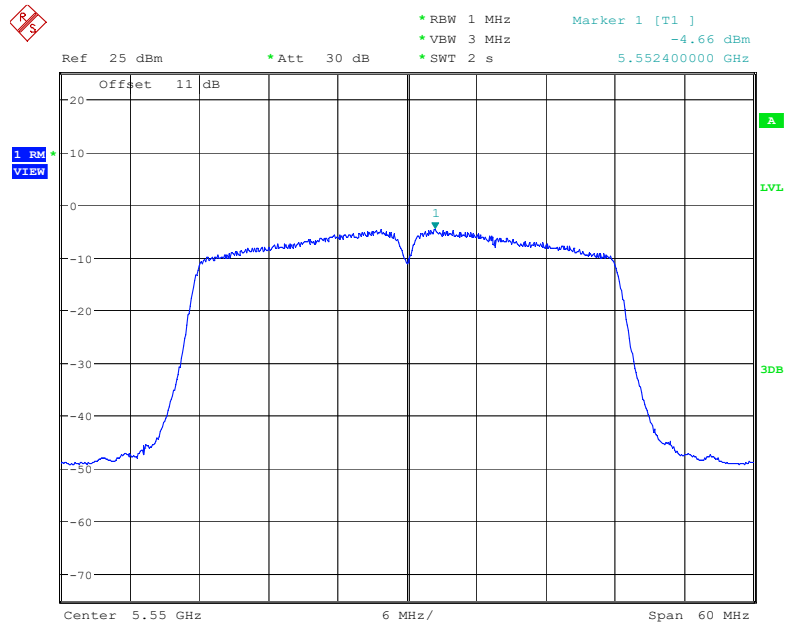
802. 11ac20 mode, Power Spectral Density, 5700 MHz



Date: 5.MAR.2023 16:26:46

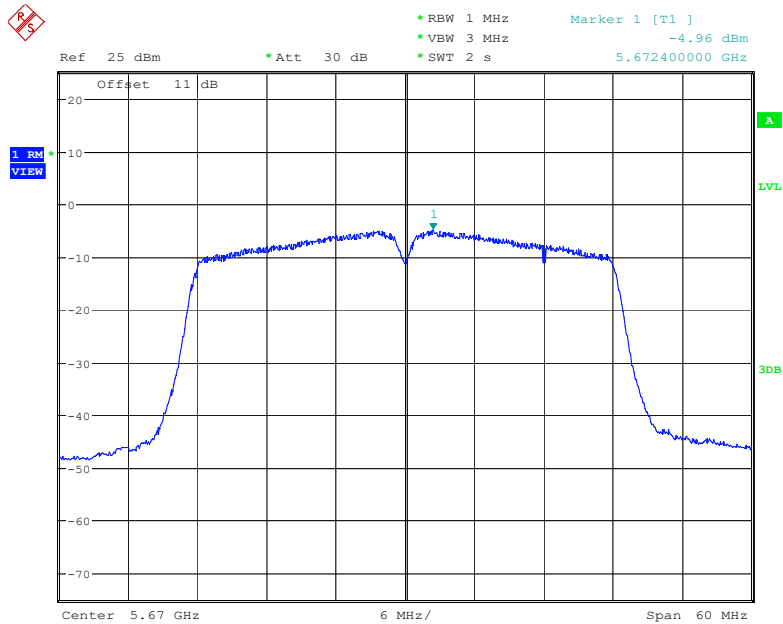
802. 11ac40 mode, Power Spectral Density, 5510 MHz

Date: 5.MAR.2023 16:44:41

802. 11ac40 mode, Power Spectral Density, 5550 MHz

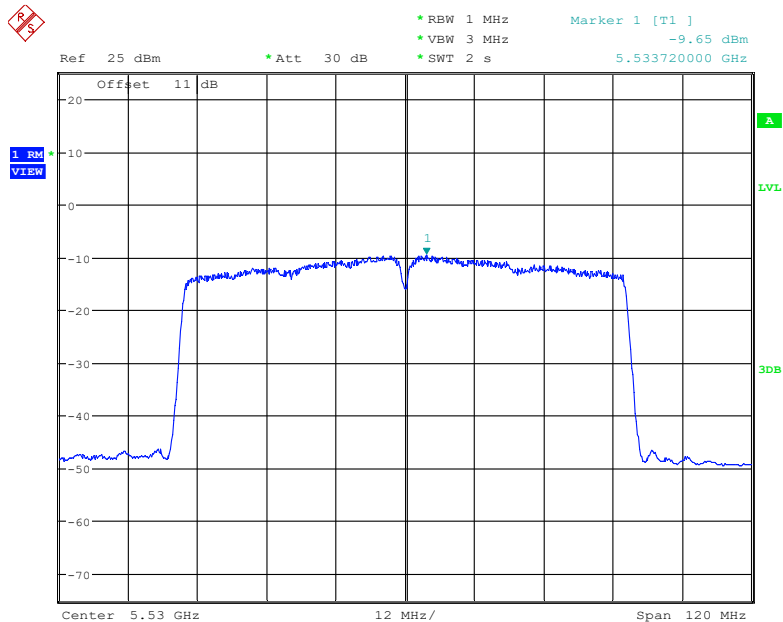
Date: 6.MAR.2023 20:26:48

802. 11ac40 mode, Power Spectral Density, 5670 MHz

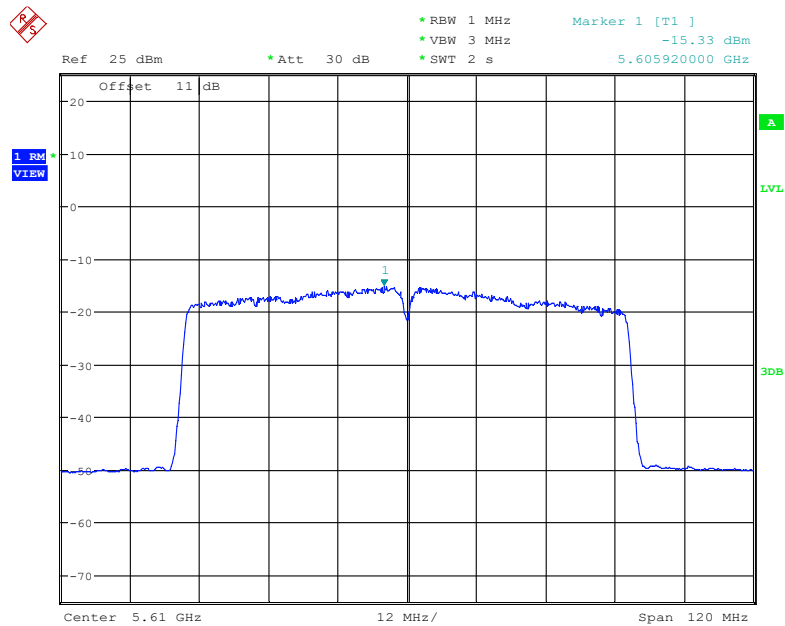


Date: 6.MAR.2023 20:24:08

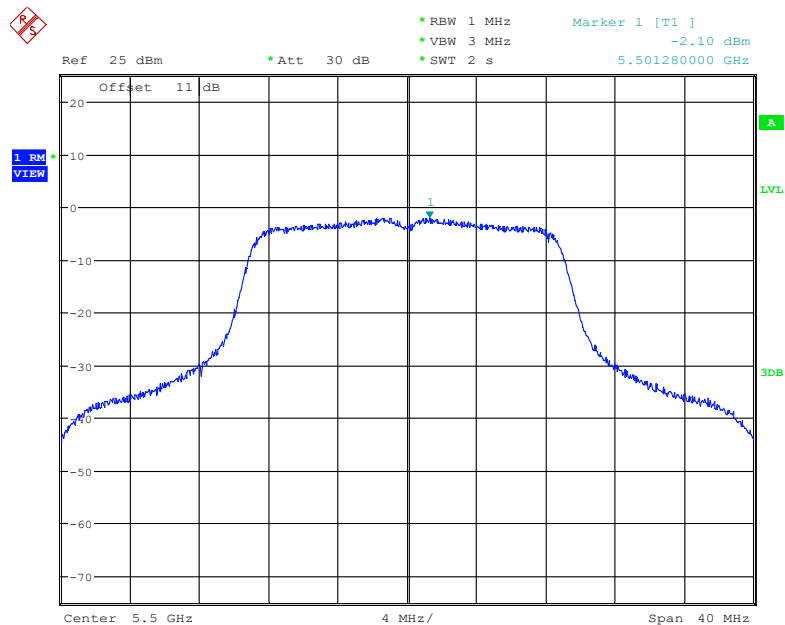
802. 11ac80 mode, Power Spectral Density, 5530 MHz



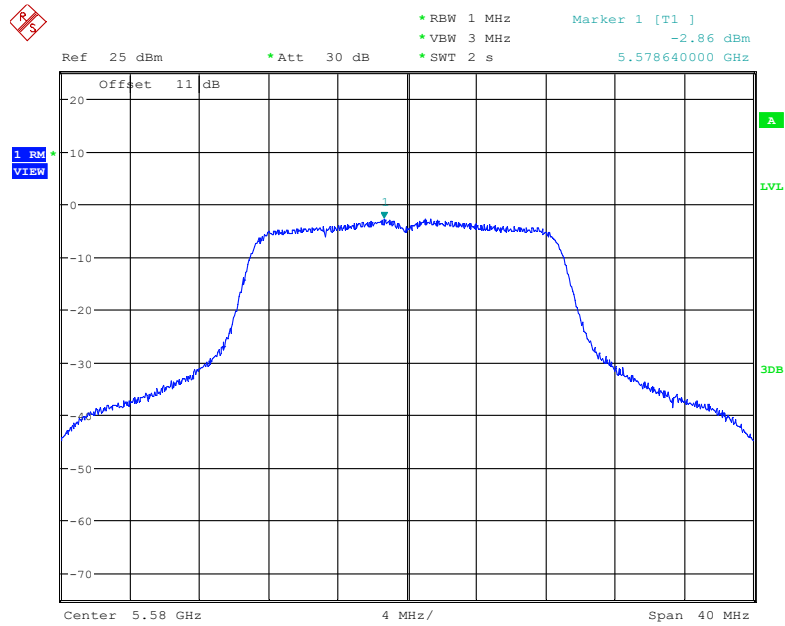
Date: 5.MAR.2023 17:41:08

802.11ac80 mode, Power Spectral Density, 5610 MHz

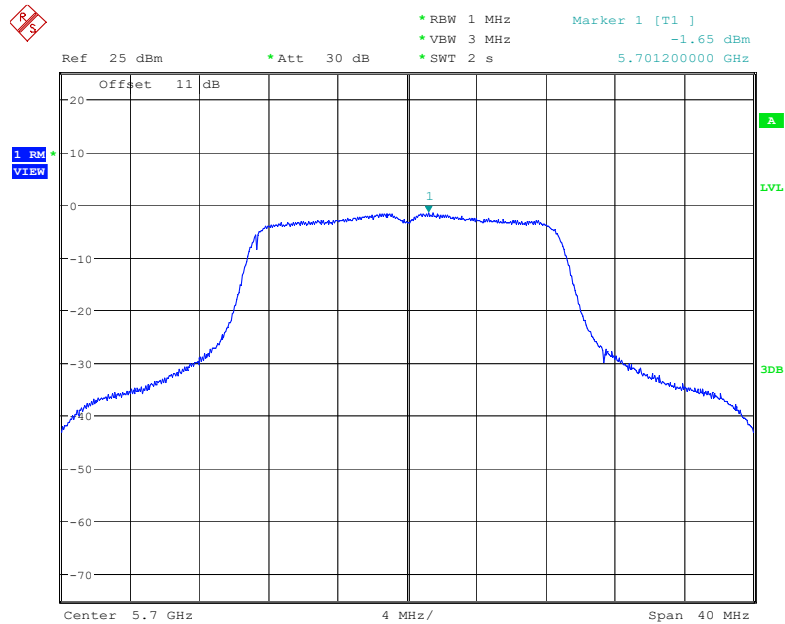
Date: 3.APR.2023 14:48:44

802.11ax20 mode, Power Spectral Density, 5500 MHz

Date: 5.MAR.2023 16:13:12

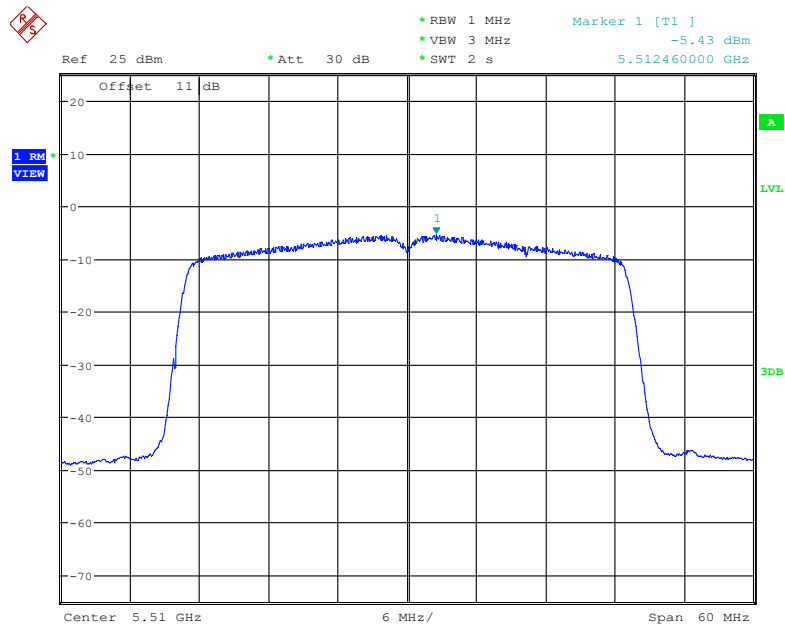
802.11ax20 mode, Power Spectral Density, 5580 MHz

Date: 5.MAR.2023 16:17:44

802.11ax20 mode, Power Spectral Density, 5700 MHz

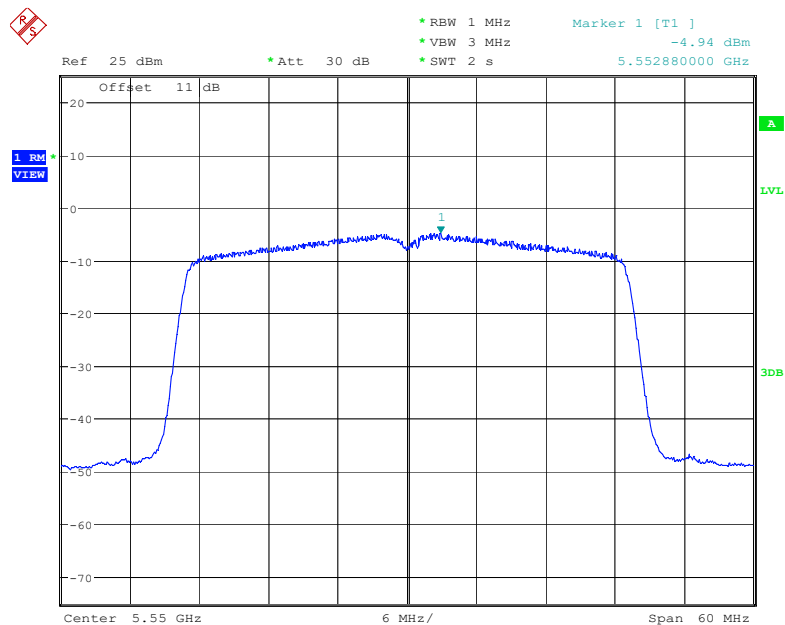
Date: 6.MAR.2023 21:34:52

802.11ax40 mode, Power Spectral Density, 5510 MHz

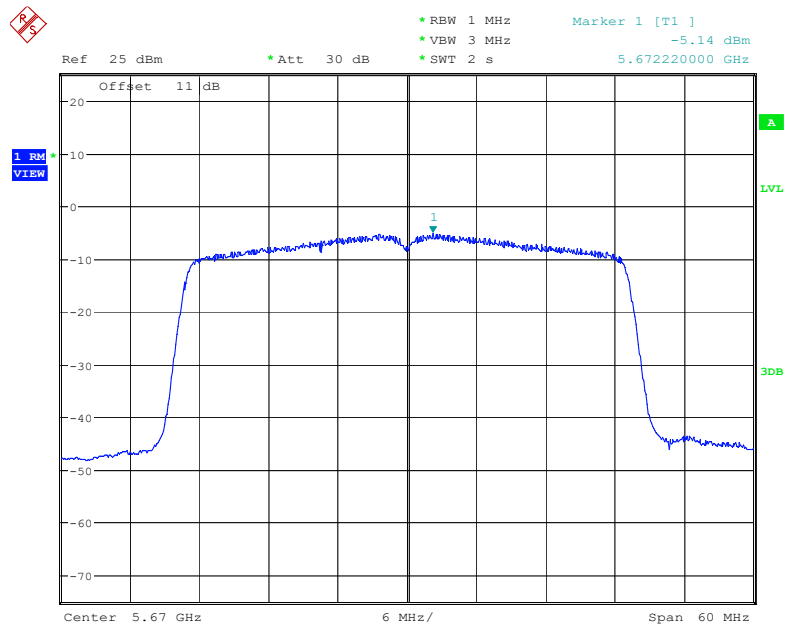


Date: 5.MAR.2023 16:53:29

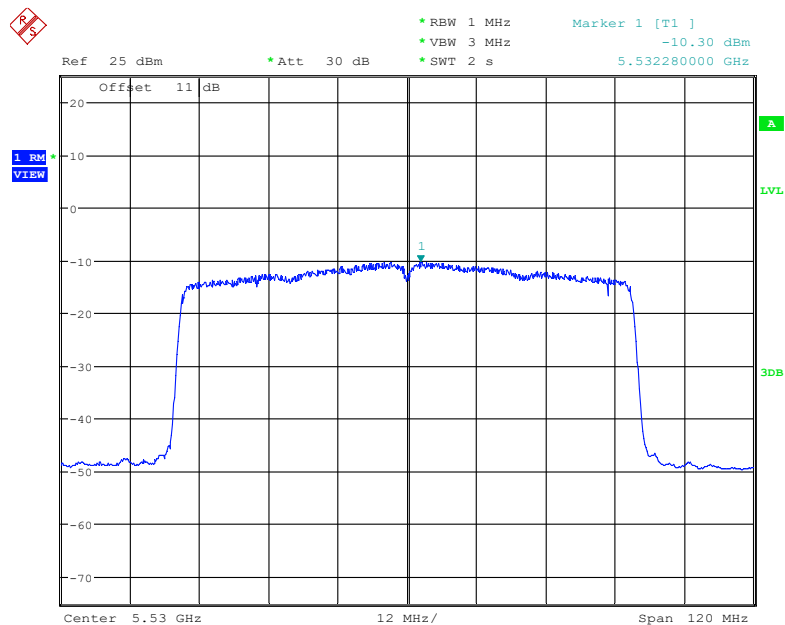
802.11ax40 mode, Power Spectral Density, 5550 MHz



Date: 6.MAR.2023 20:35:29

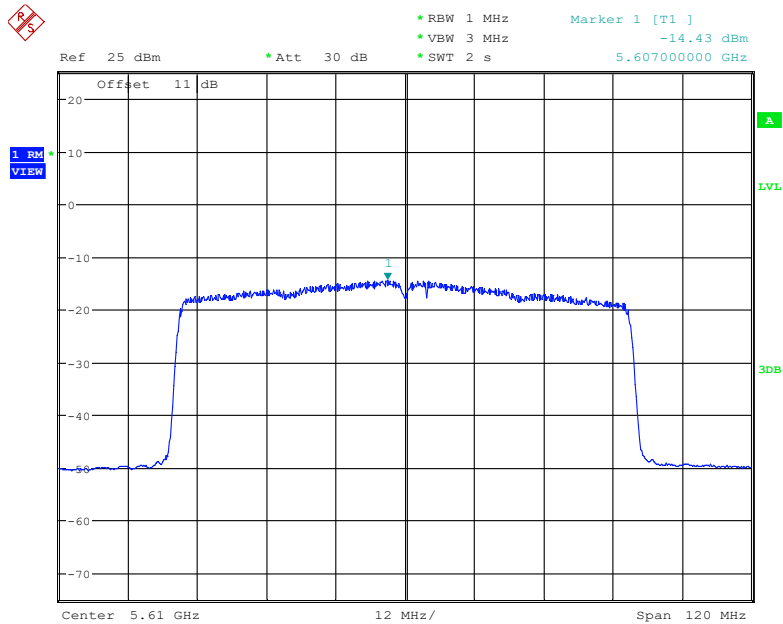
802. 11ax40 mode, Power Spectral Density, 5670 MHz

Date: 6.MAR.2023 20:29:55

802. 11ax80 mode, Power Spectral Density, 5530 MHz

Date: 5.MAR.2023 17:30:25

802.11ax80 mode, Power Spectral Density, 5610 MHz



Date: 3.APR.2023 15:00:41

5725 MHz – 5850MHz:

Frequency (MHz)	Antenna Port	PSD (dBm/500kHz)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)
802.11a				
5745	1	-8.74	/	30
	2	-6.56		
5785	1	-9.08	/	
	2	-6.36		
5825	1	-9.35	/	
	2	-6.93		
802.11n20				
5745	1	-8.80	-0.43	28.02
	2	-1.11		
5785	1	-9.38	-0.48	
	2	-1.08		
5825	1	-9.76	-0.83	
	2	-1.42		
802.11n40				
5755	1	-14.33	-5.40	28.02
	2	-6.00		
5795	1	-14.72	-5.32	
	2	-5.85		
802.11ac20				
5745	1	-9.98	-5.89	28.02
	2	-8.04		
5785	1	-10.42	-5.92	
	2	-7.83		
5825	1	-10.65	-6.17	
	2	-8.09		
802.11ac40				
5755	1	-14.72	-7.48	28.02
	2	-8.39		
5795	1	-15.13	-7.23	
	2	-8.00		
802.11ac80				
5775	1	-16.42	-11.47	28.02
	2	-13.14		
802.11ax20				
5745	1	-8.80	-2.90	28.02
	2	-4.19		
5785	1	-9.18	-2.93	
	2	-4.11		
5825	1	-9.48	-5.65	
	2	-7.97		
802.11ax40				
5755	1	-12.48	-6.26	28.02
	2	-7.44		
5795	1	-13.11	-6.36	
	2	-7.39		
802.11ax80				
5775	1	-17.35	-10.84	28.02
	2	-11.94		

Note:

The device employ CDD for 802.11n/ac/ax mode.

Direction Gain = G_{ANT} + Array Gain

For PSD measurement,

Array Gain = $10 \cdot \log(N_{\text{ANT}})$

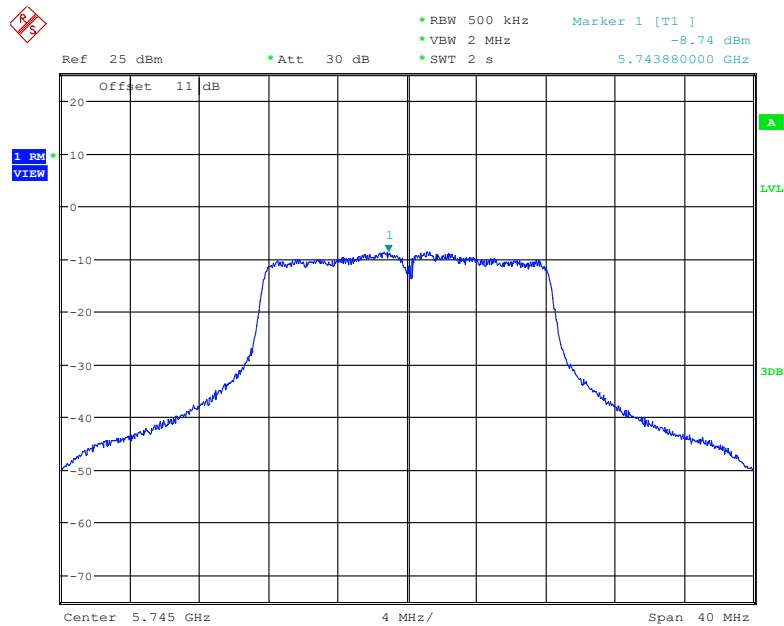
$G_{\text{ANT}}=4.98\text{dBi}$, $N_{\text{ANT}}=2$

Direction gain= $4.98\text{dBi}+10 \cdot \log(2)=7.98>6\text{dBi}$

So for 802.11n/ac/ax mode, the limit should reduce 1.98dB.

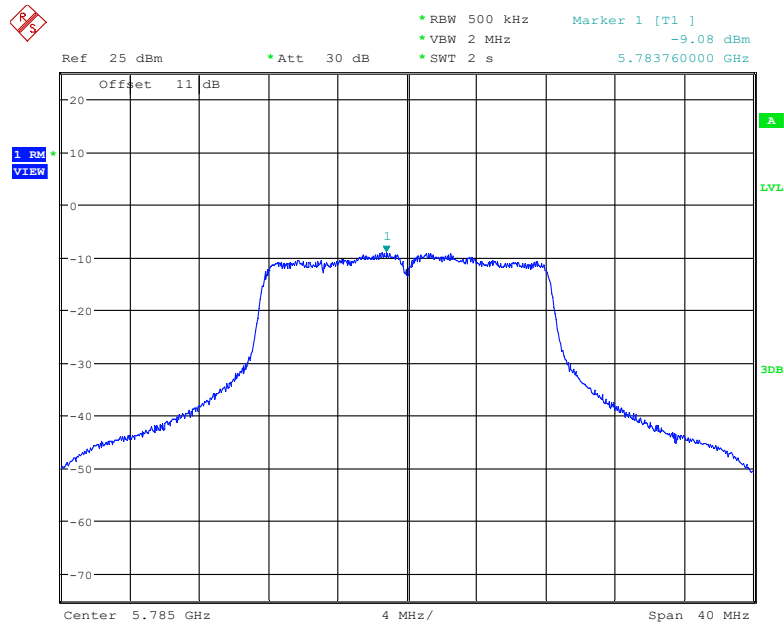
Antenna 1

802.11a mode, Power Spectral Density, 5745 MHz



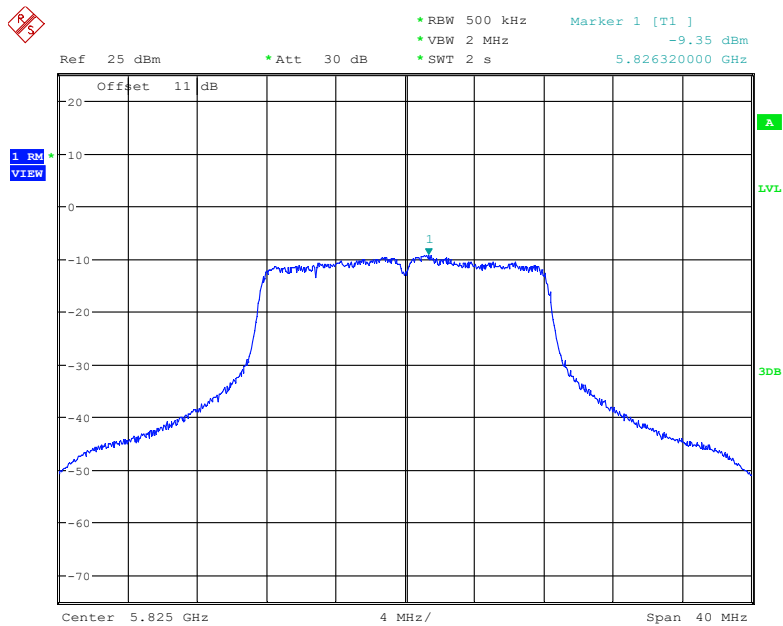
Date: 5.MAR.2023 11:07:43

802.11a mode, Power Spectral Density, 5785 MHz



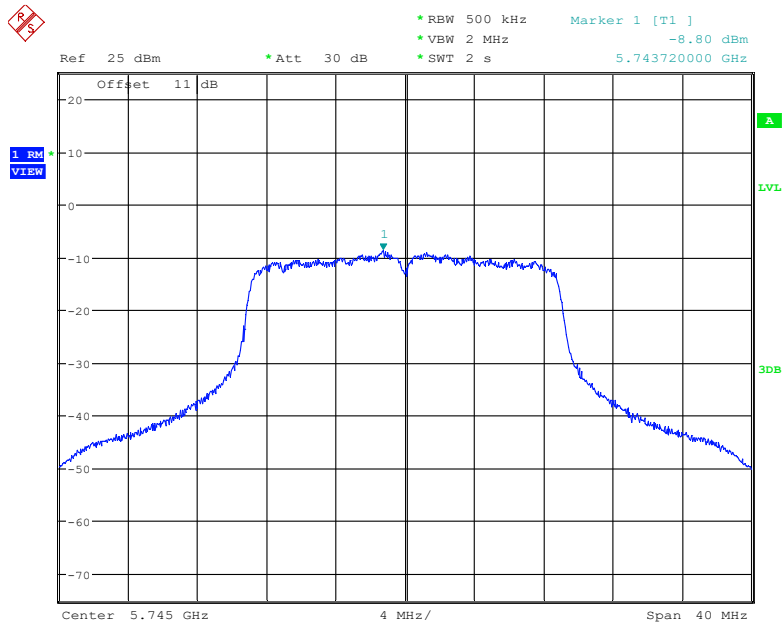
Date: 5.MAR.2023 11:04:16

802.11a mode, Power Spectral Density, 5825 MHz



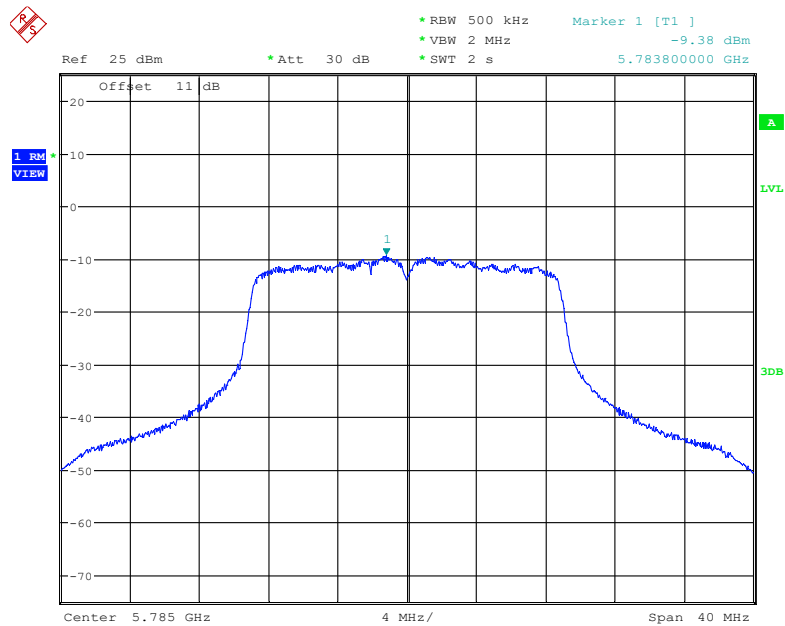
Date: 5.MAR.2023 11:01:17

802.11n20 mode, Power Spectral Density, 5745 MHz



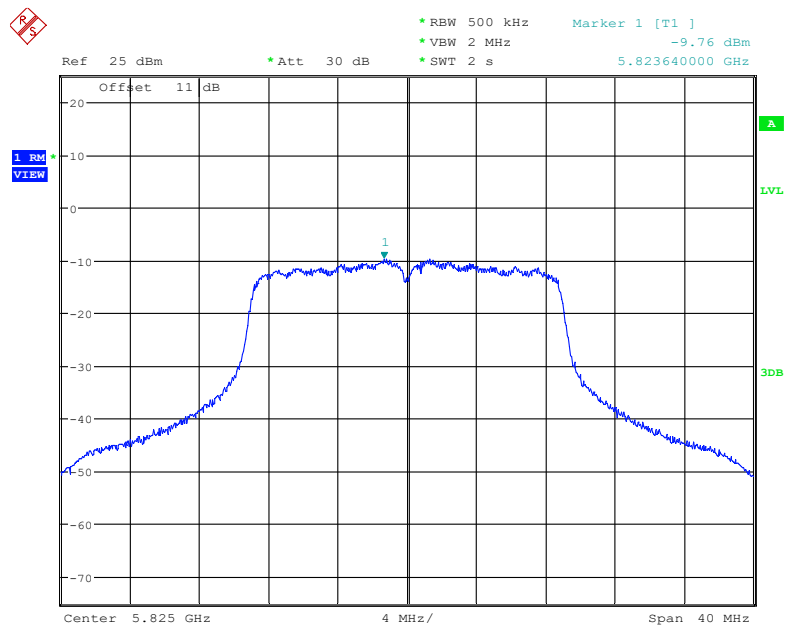
Date: 5.MAR.2023 11:19:30

802.11n20 mode, Power Spectral Density, 5785 MHz

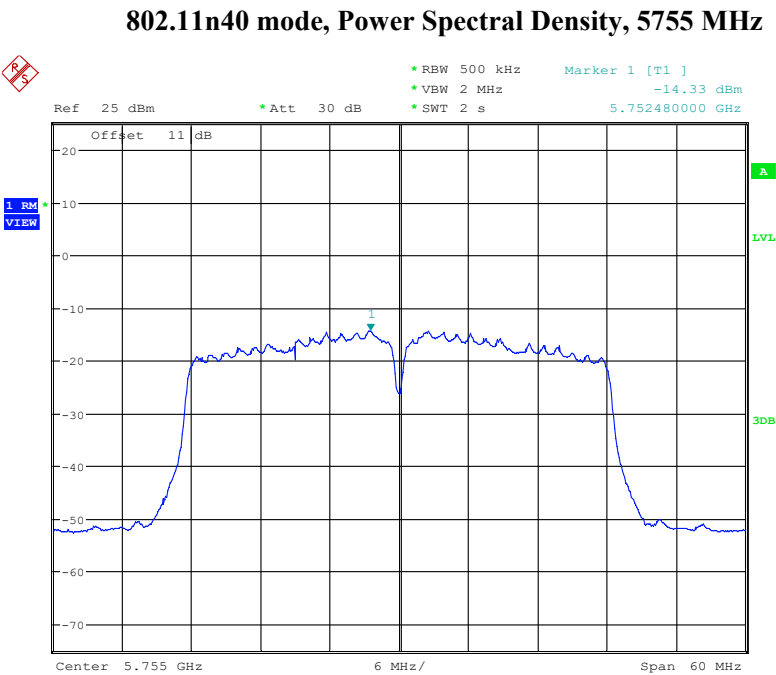


Date: 5.MAR.2023 11:22:03

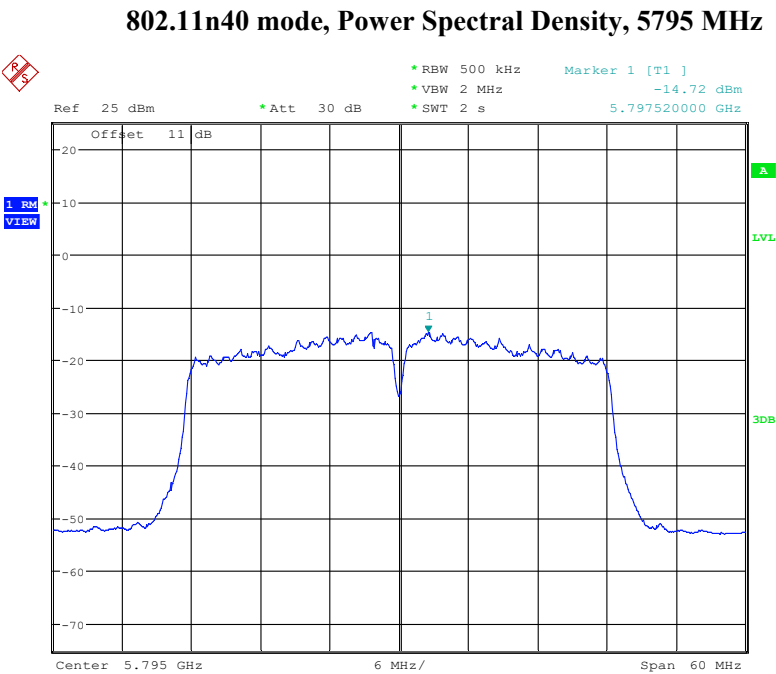
802.11n20 mode, Power Spectral Density, 5825 MHz



Date: 5.MAR.2023 11:25:13

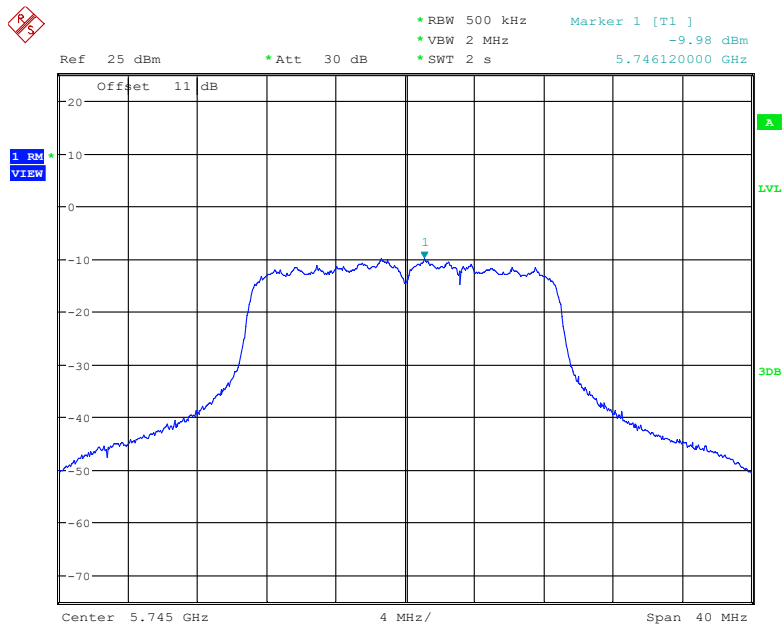


Date: 5.MAR.2023 11:52:26



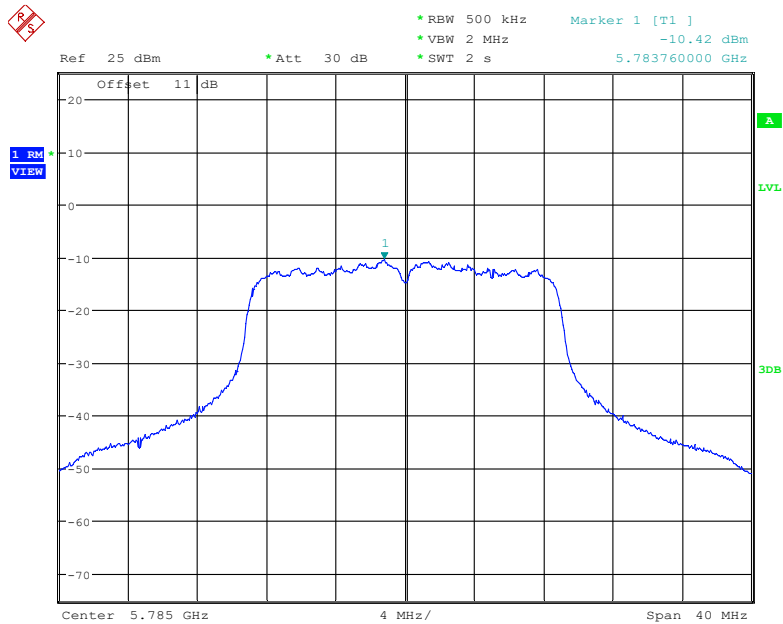
Date: 5.MAR.2023 11:50:09

802.11ac20 mode, Power Spectral Density, 5745 MHz

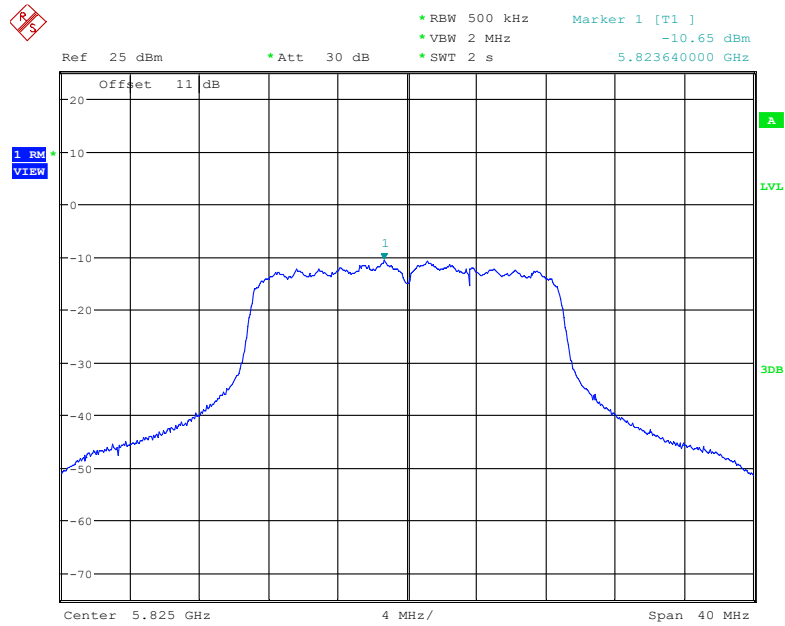


Date: 5.MAR.2023 11:11:07

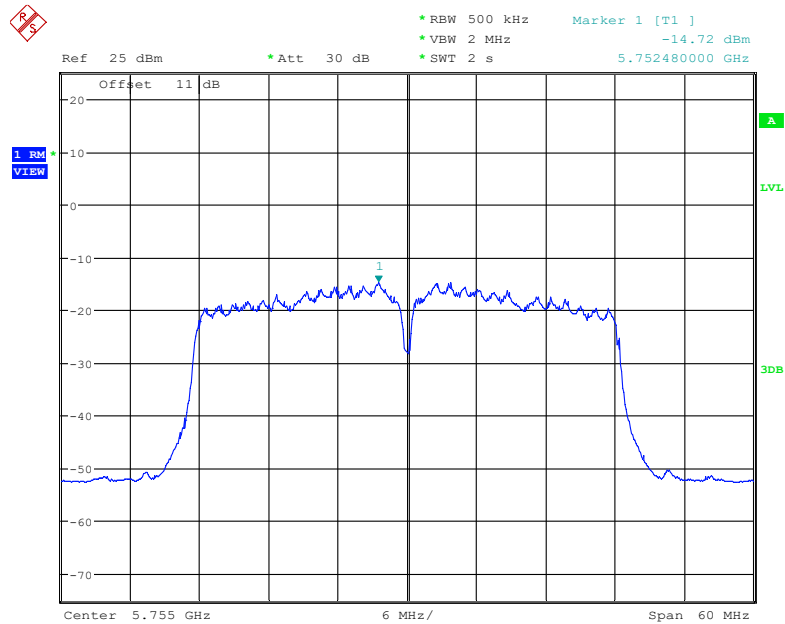
802.11ac20 mode, Power Spectral Density, 5785 MHz



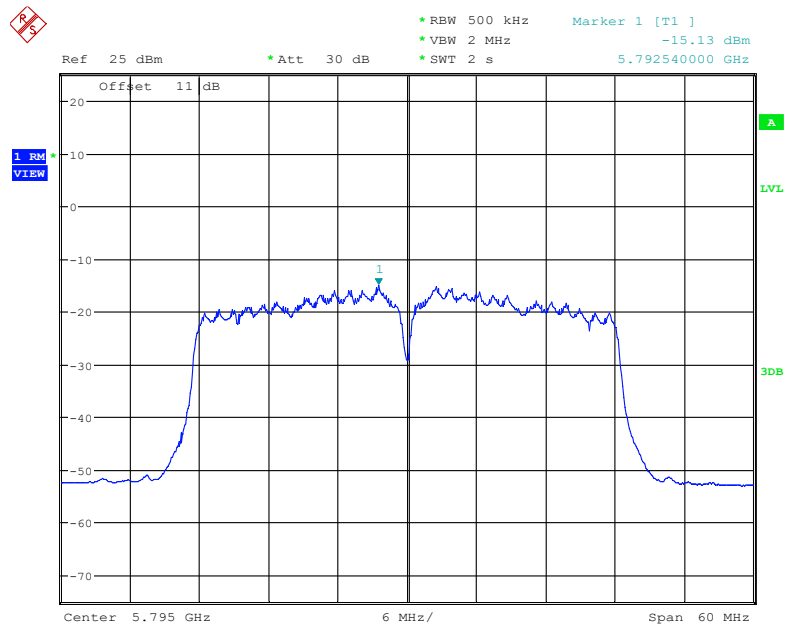
Date: 5.MAR.2023 11:13:40

802.11ac20 mode, Power Spectral Density, 5825 MHz

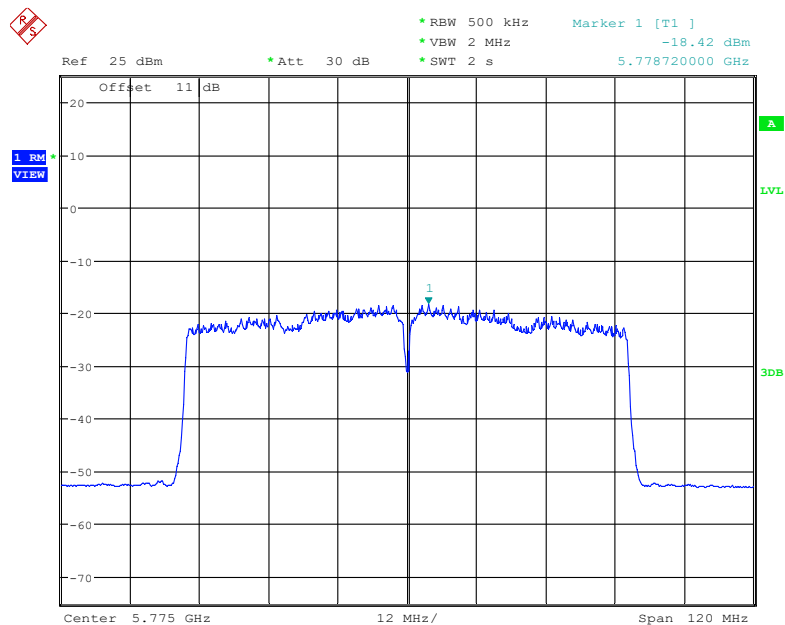
Date: 5.MAR.2023 11:16:14

802.11ac40 mode, Power Spectral Density, 5755 MHz

Date: 5.MAR.2023 11:44:11

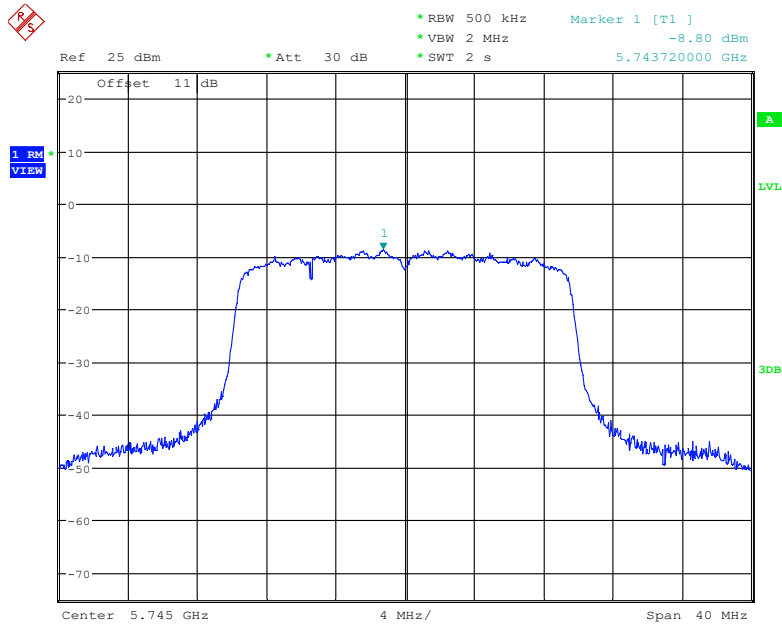
802. 11ac40 mode, Power Spectral Density, 5795 MHz

Date: 5.MAR.2023 11:47:17

802. 11ac80 mode, Power Spectral Density, 5775 MHz

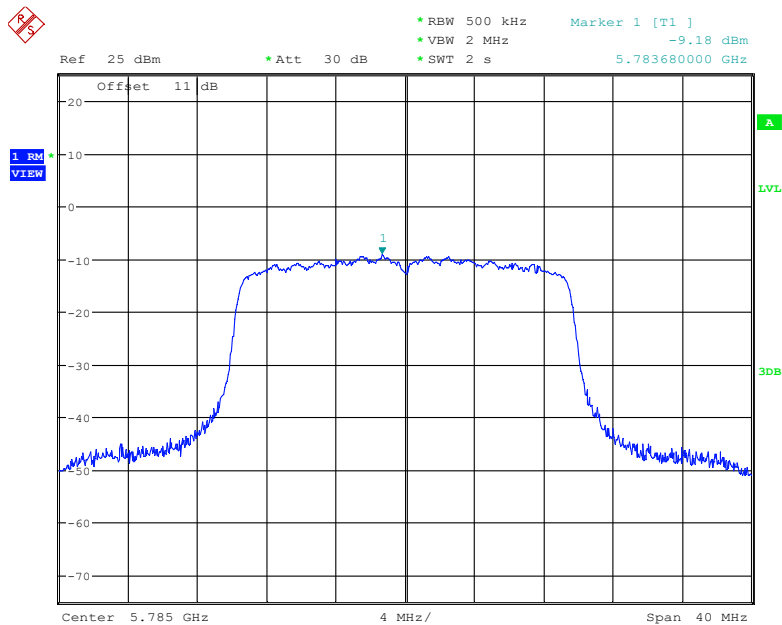
Date: 5.MAR.2023 13:05:39

802.11ax20 mode, Power Spectral Density, 5745 MHz



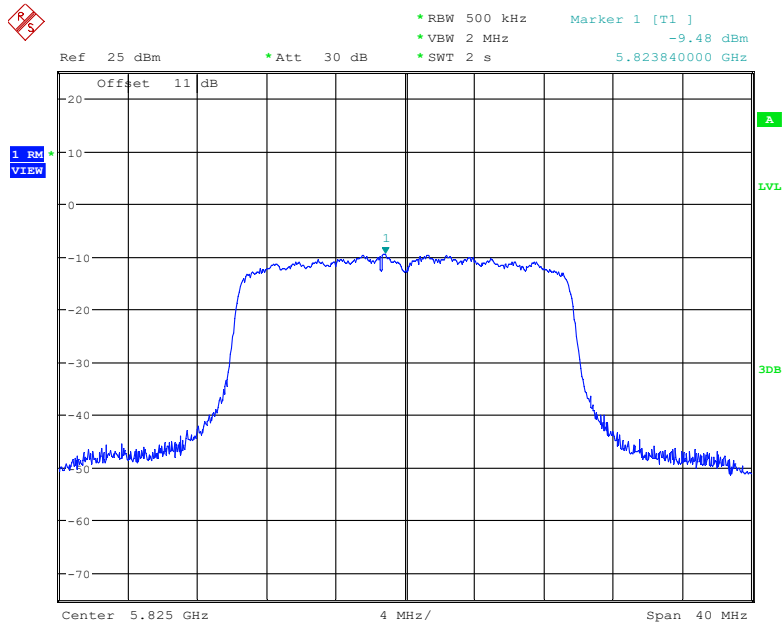
Date: 5.MAR.2023 11:30:16

802.11ax20 mode, Power Spectral Density, 5785 MHz



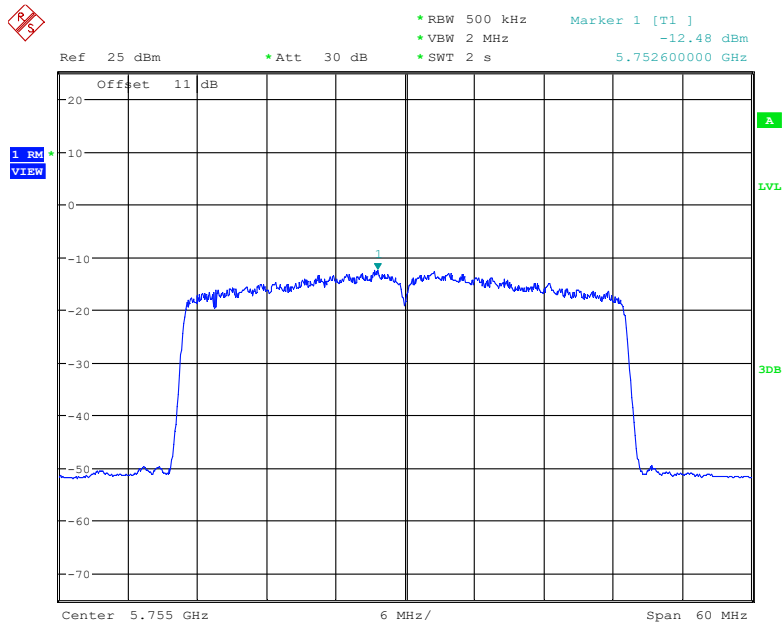
Date: 5.MAR.2023 11:34:23

802. 11ax20 mode, Power Spectral Density, 5825 MHz

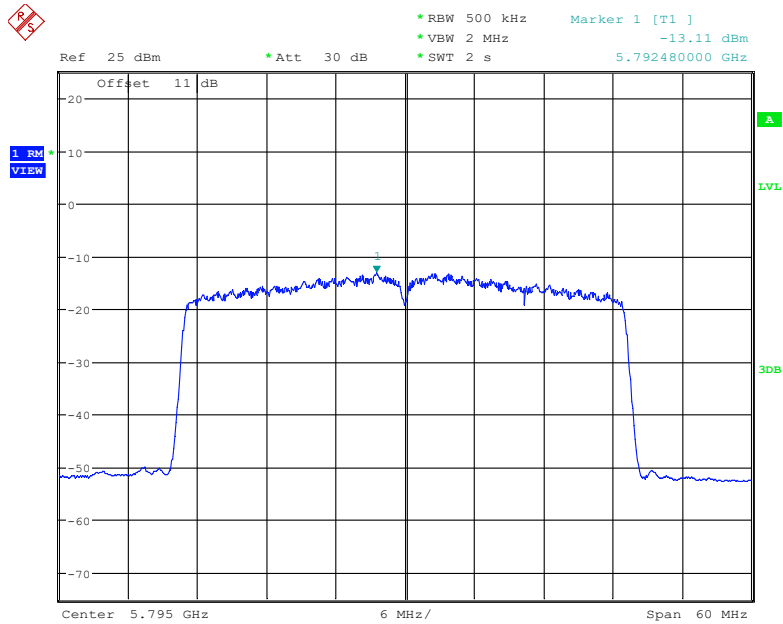


Date: 5.MAR.2023 11:37:57

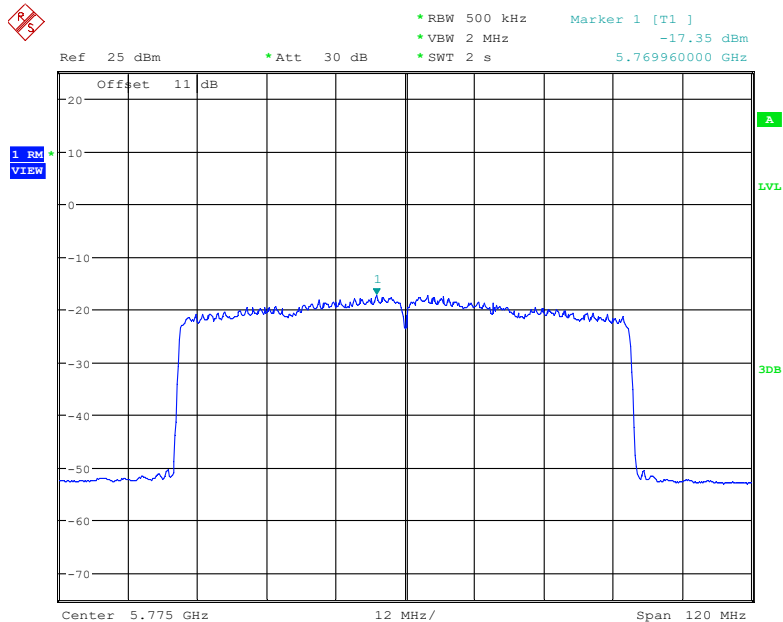
802. 11ax40 mode, Power Spectral Density, 5755 MHz



Date: 5.MAR.2023 11:55:59

802.11ax40 mode, Power Spectral Density, 5795 MHz

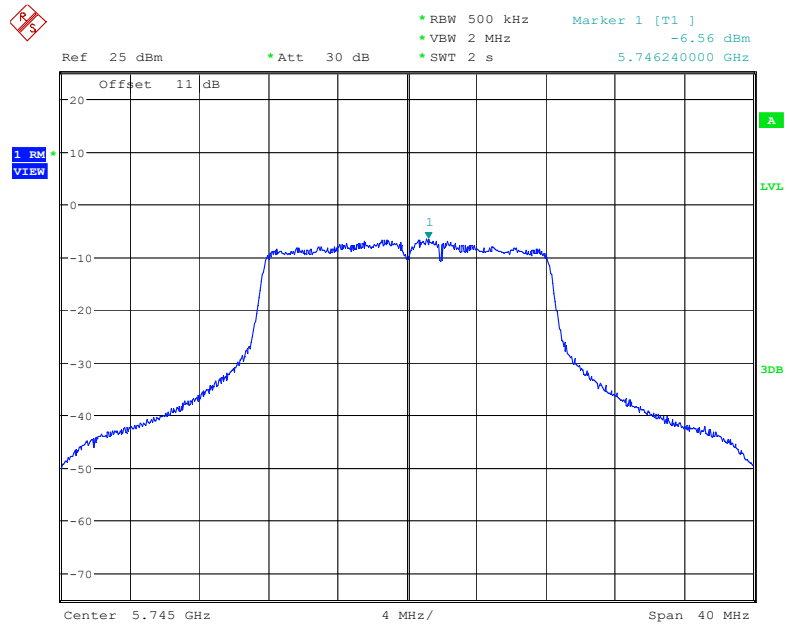
Date: 5.MAR.2023 11:58:32

802.11ax80 mode, Power Spectral Density, 5775 MHz

Date: 5.MAR.2023 12:01:06

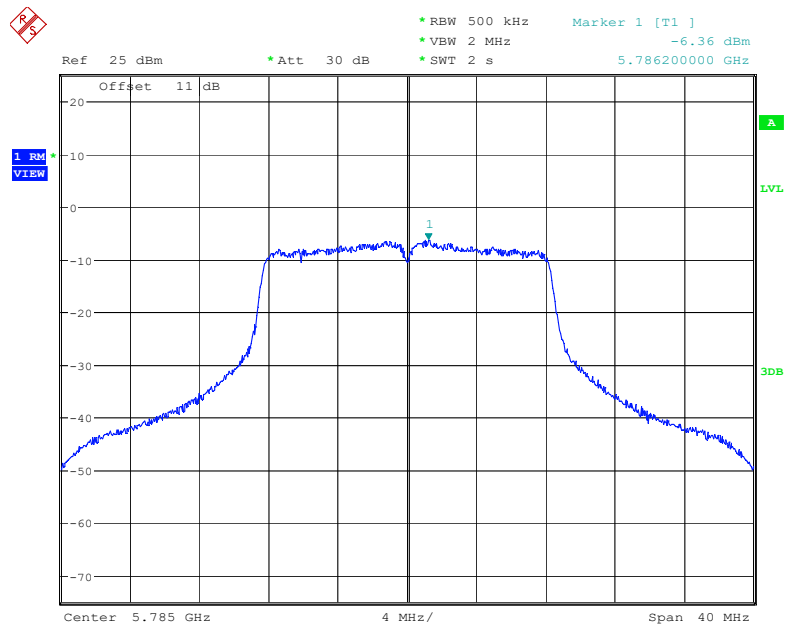
Antenna 2:

802.11a mode, Power Spectral Density, 5745 MHz

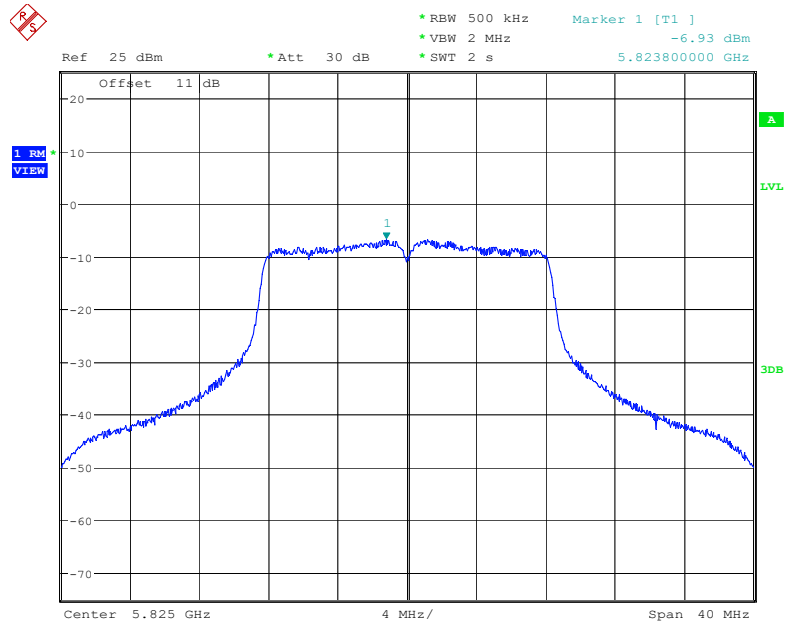


Date: 6.MAR.2023 18:15:43

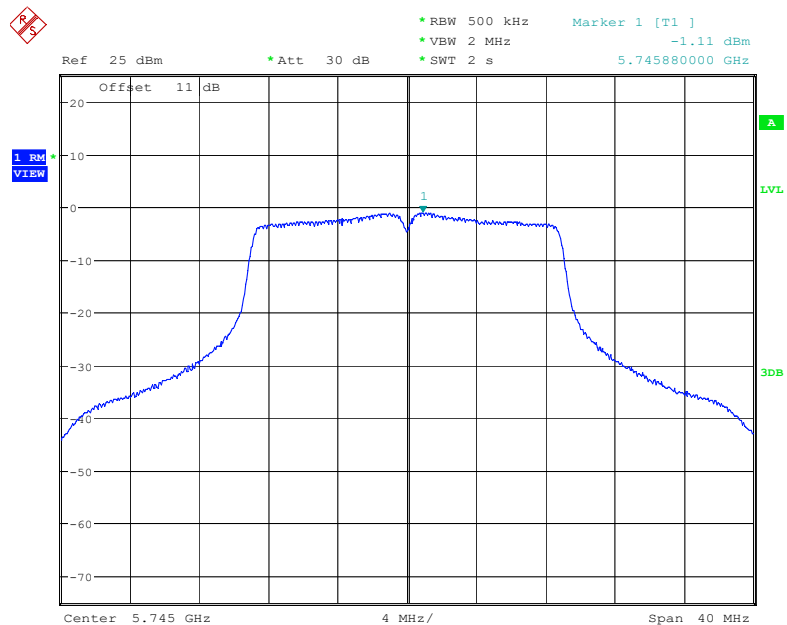
802.11a mode, Power Spectral Density, 5785 MHz



Date: 6.MAR.2023 18:18:32

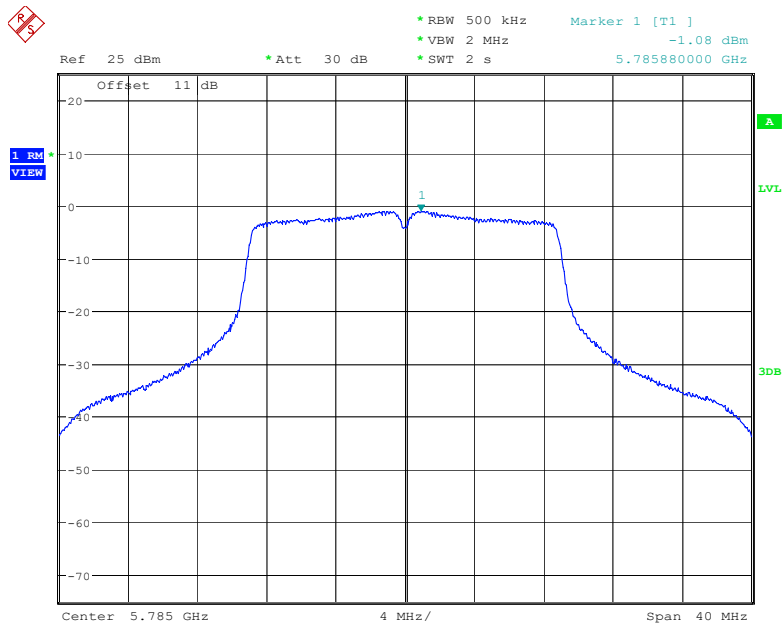
802.11a mode, Power Spectral Density, 5825 MHz

Date: 6.MAR.2023 18:21:35

802.11n20 mode, Power Spectral Density, 5745 MHz

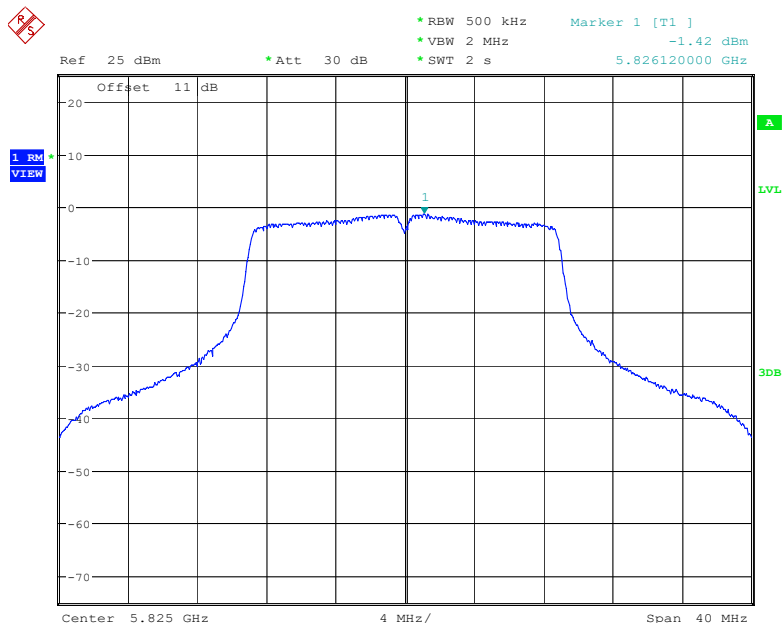
Date: 6.MAR.2023 18:56:29

802.11n20 mode, Power Spectral Density, 5785 MHz

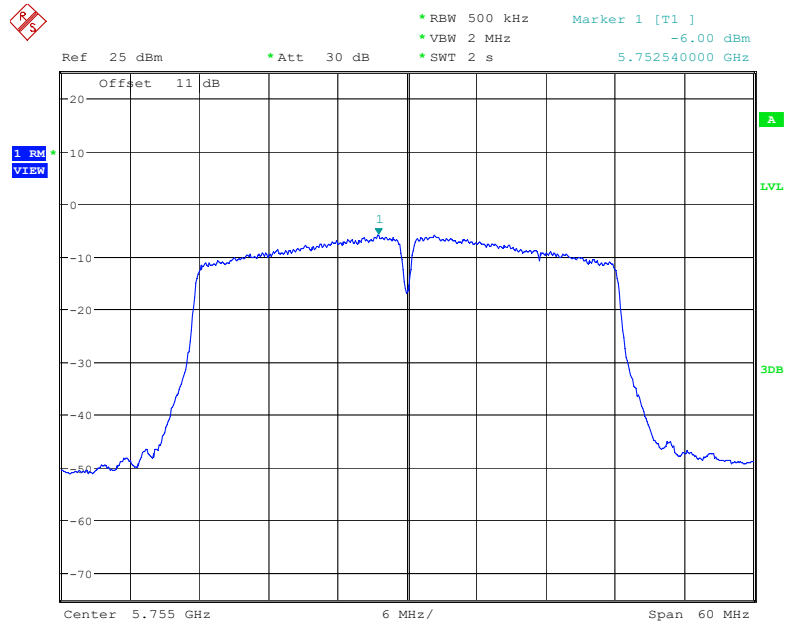


Date: 6.MAR.2023 19:00:02

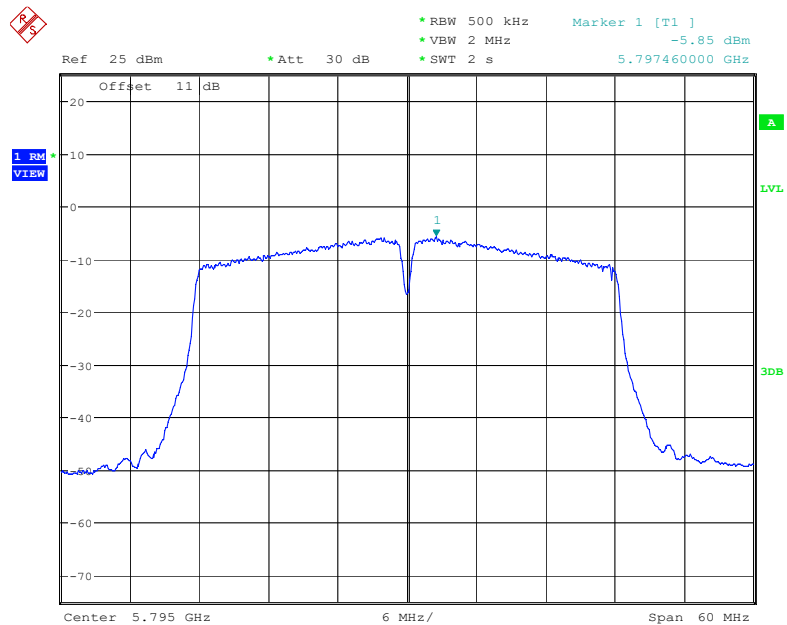
802.11n20 mode, Power Spectral Density, 5825 MHz



Date: 6.MAR.2023 19:02:41

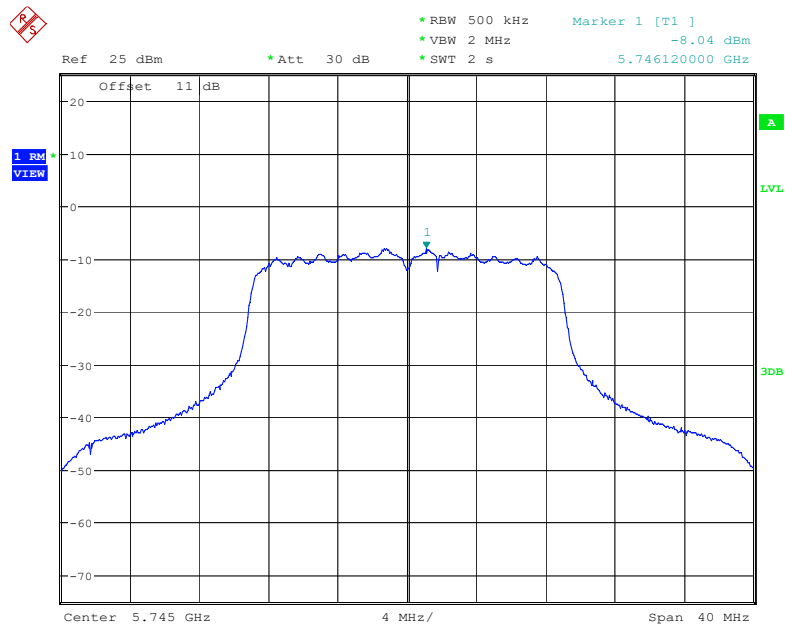
802.11n40 mode, Power Spectral Density, 5755 MHz

Date: 6.MAR.2023 19:34:44

802.11n40 mode, Power Spectral Density, 5795 MHz

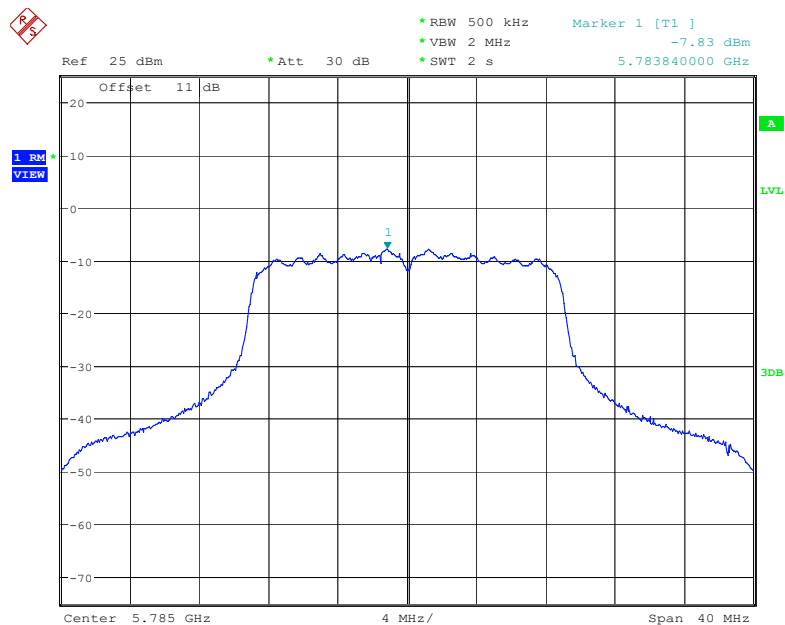
Date: 6.MAR.2023 19:36:57

802.11ac20 mode, Power Spectral Density, 5745 MHz

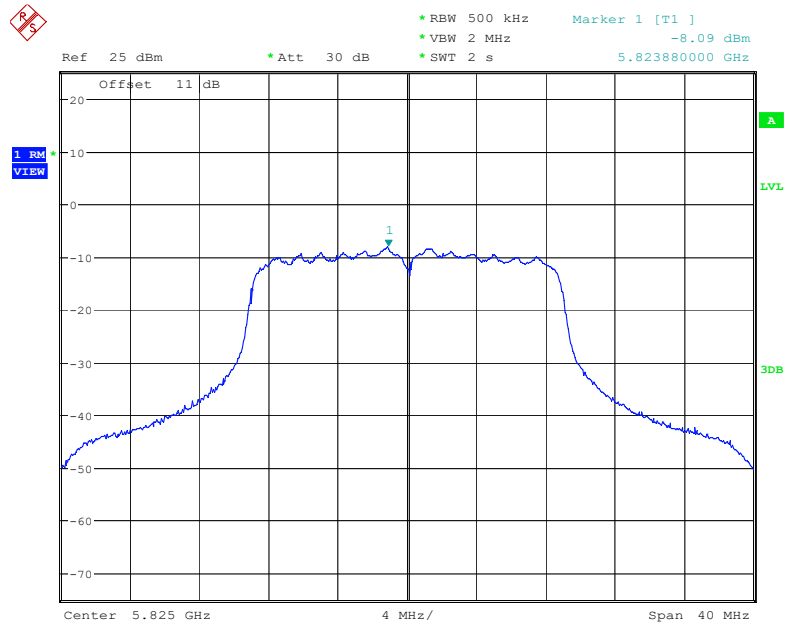


Date: 6.MAR.2023 18:26:19

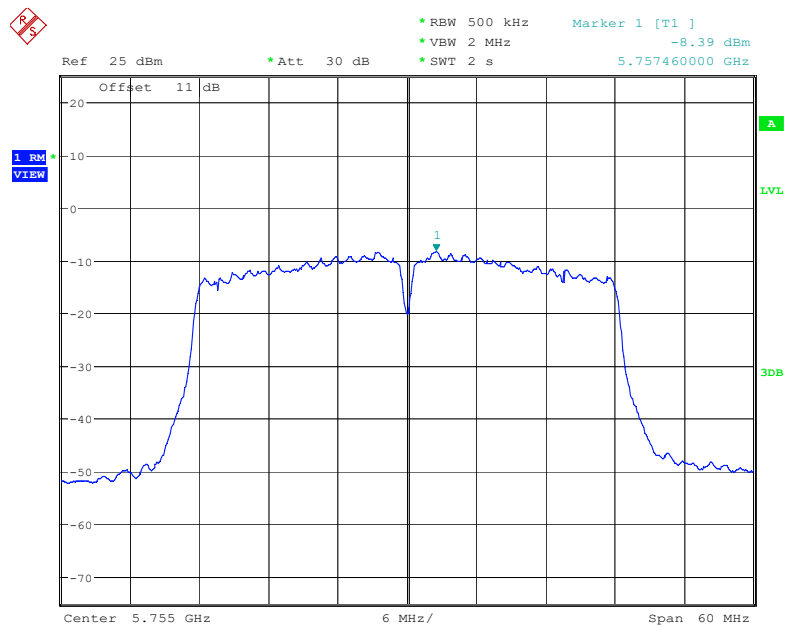
802.11ac20 mode, Power Spectral Density, 5785 MHz



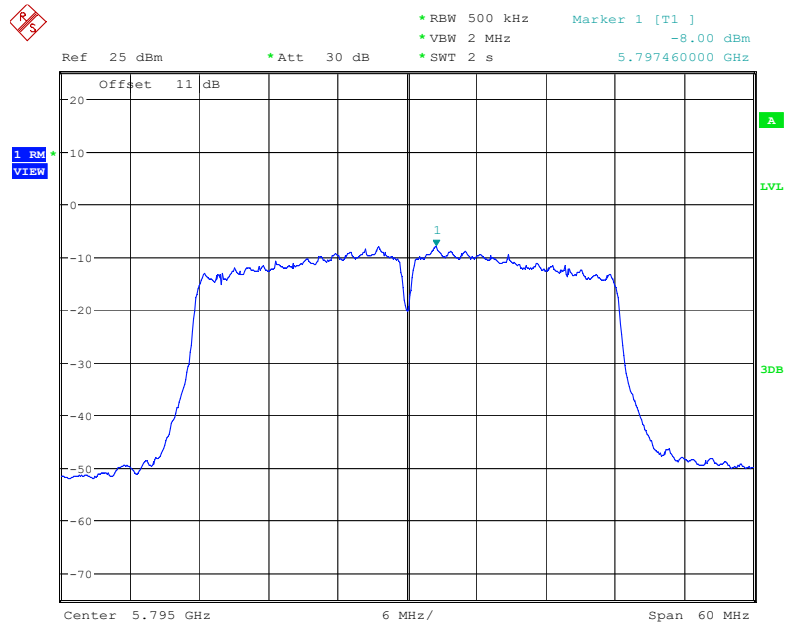
Date: 6.MAR.2023 18:29:36

802. 11ac20 mode, Power Spectral Density, 5825 MHz

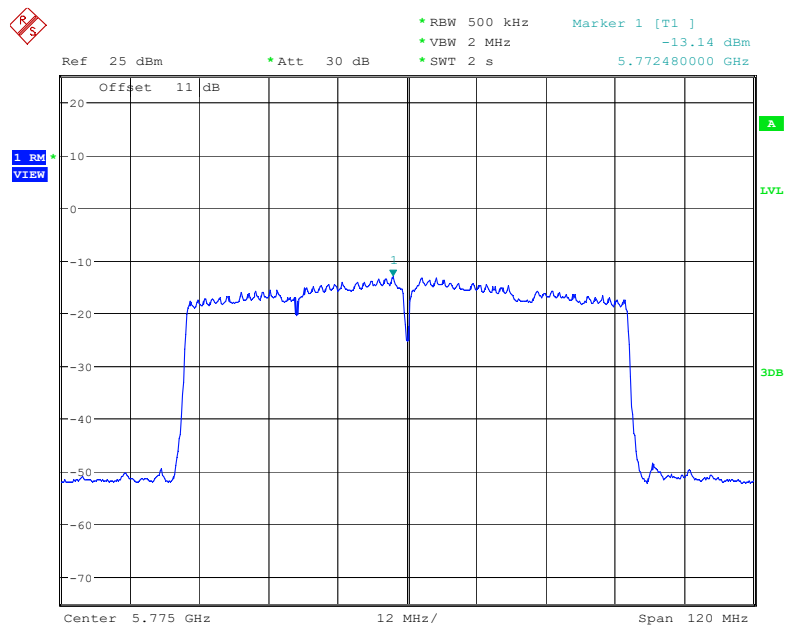
Date: 6.MAR.2023 18:52:05

802. 11ac40 mode, Power Spectral Density, 5755 MHz

Date: 6.MAR.2023 19:21:40

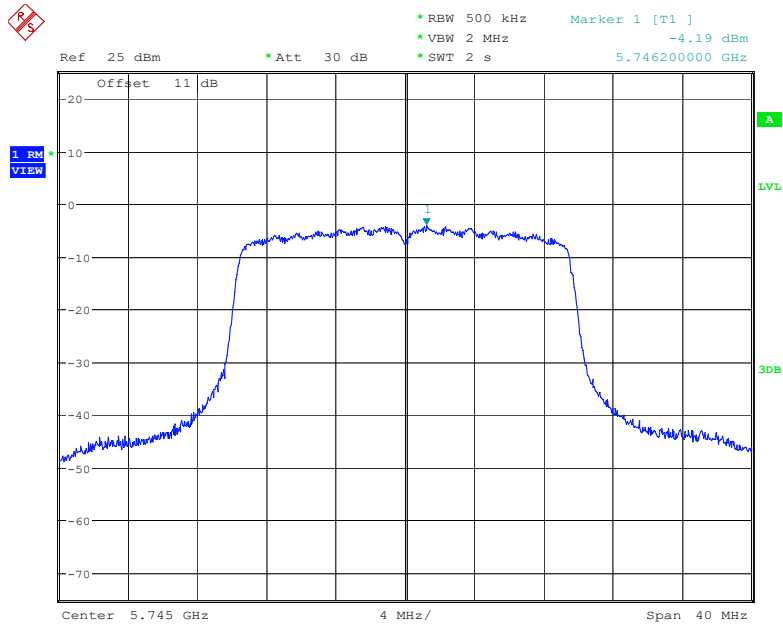
802. 11ac40 mode, Power Spectral Density, 5795 MHz

Date: 6.MAR.2023 19:24:37

802. 11ac80 mode, Power Spectral Density, 5775 MHz

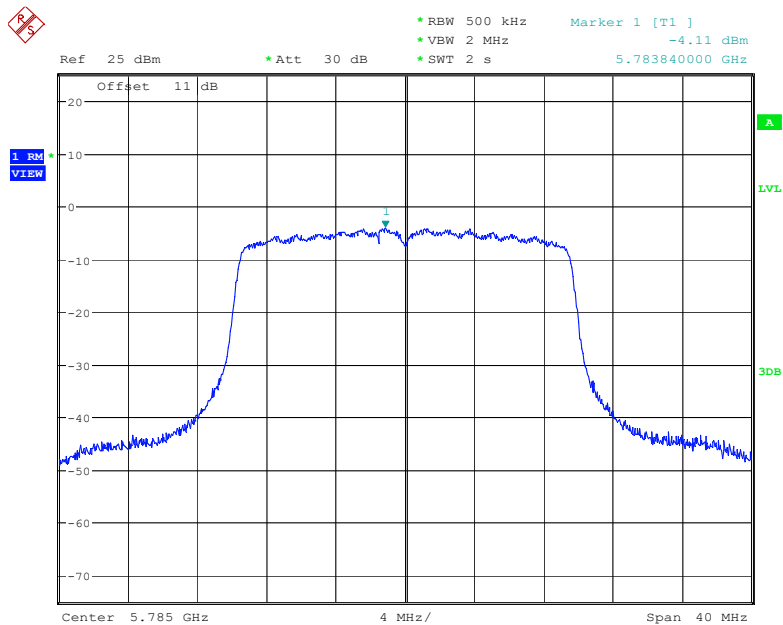
Date: 6.MAR.2023 19:40:52

802.11ax20 mode, Power Spectral Density, 5745 MHz

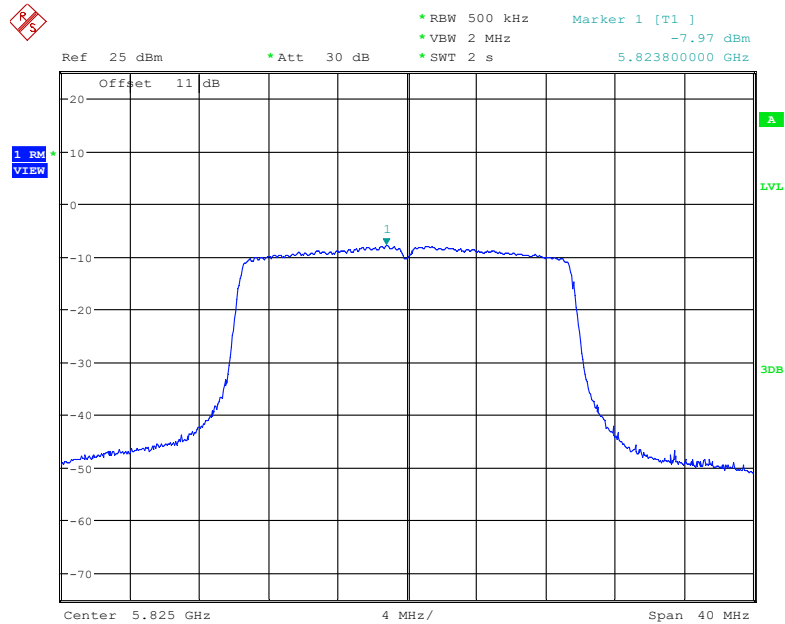


Date: 6.MAR.2023 19:08:04

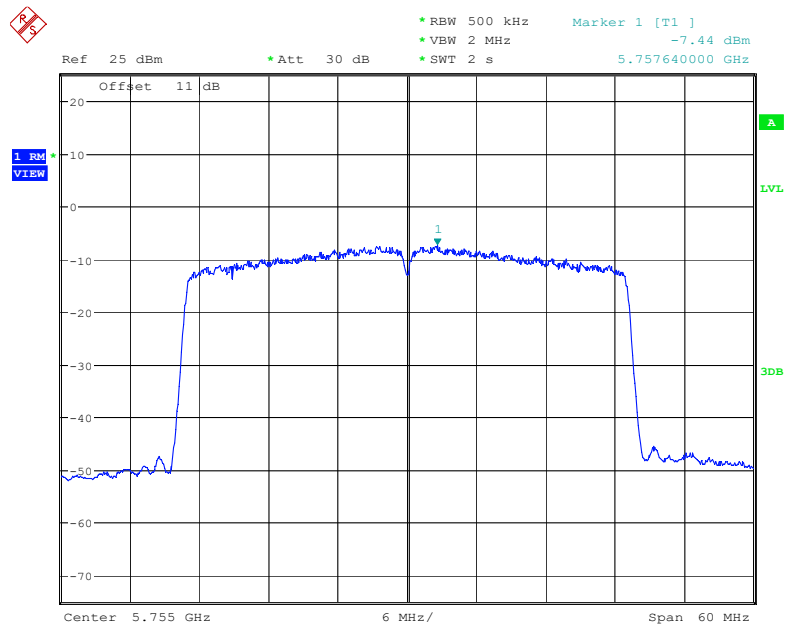
802.11ax20 mode, Power Spectral Density, 5785 MHz



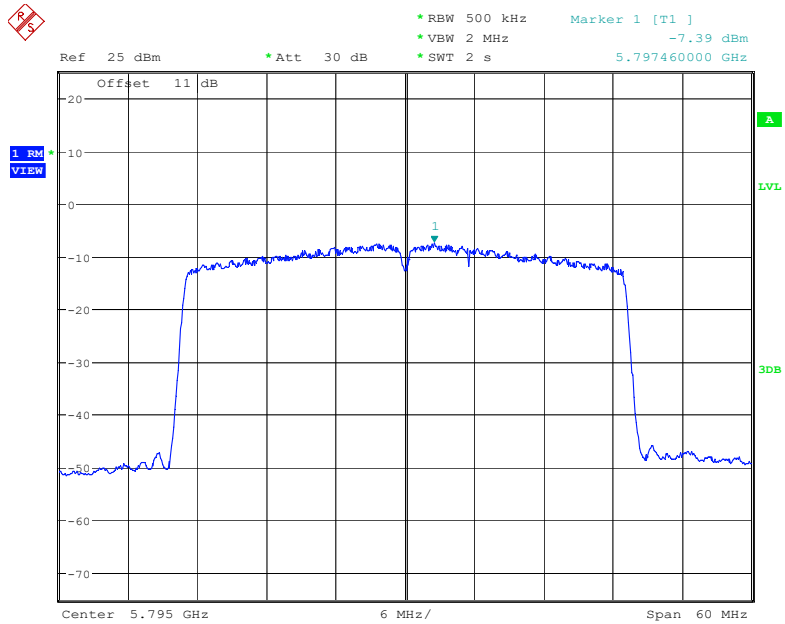
Date: 6.MAR.2023 19:11:54

802. 11ax20 mode, Power Spectral Density, 5825 MHz

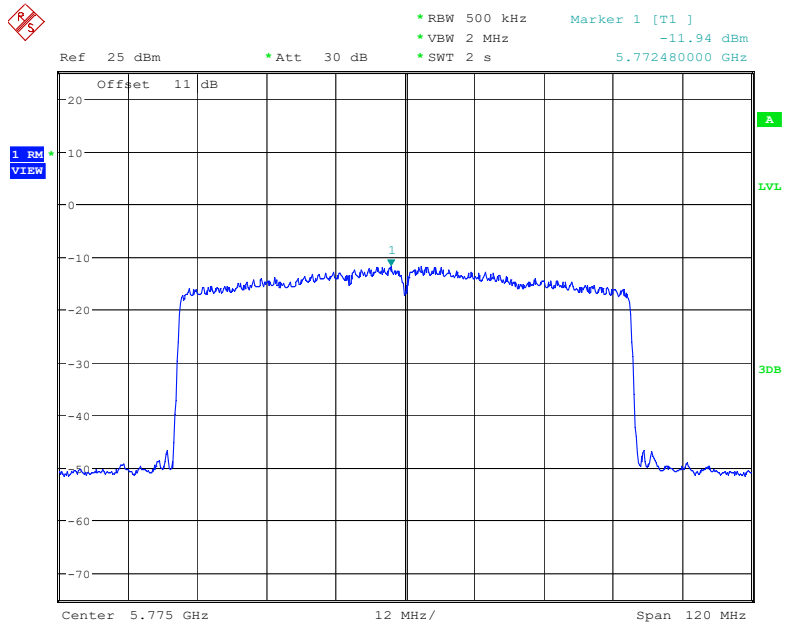
Date: 3.APR.2023 14:56:59

802. 11ax40 mode, Power Spectral Density, 5755 MHz

Date: 6.MAR.2023 19:27:17

802.11ax40 mode, Power Spectral Density, 5795 MHz

Date: 6.MAR.2023 19:30:01

802.11ax80 mode, Power Spectral Density, 5775 MHz

Date: 6.MAR.2023 19:43:37

******* END OF REPORT *******