

TEST REPORT

Reference No...... : WTD23D05099396W002
FCC ID : 2AADC-BK7H
Applicant..... : Inspectron Inc.
Address..... : 29108 Lorie Lane Wixom, MI 48393 USA
Manufacturer : Inspectron Inc.
Address..... : 29108 Lorie Lane Wixom, MI 48393 USA
Product..... : BK Wireless Handle
Model(s) : BK7000HDLE
Standards..... : FCC 47CFR Part 15.247
Date of Receipt sample : 2023-05-10
Date of Test : 2023-05-10 to 2023-05-26
Date of Issue..... : 2023-06-12
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD23D05099396W002	2023-05-10	2023-05-10 to 2023-05-26	2023-06-12	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	BK Wireless Handle
Model(s):	BK7000HDLE
Model Description:	N/A
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40
Hardware Version:	REV E
Software Version:	v.06.10.23

4.2 Details of E.U.T.

Operation Frequency:	802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz
Max. RF output power:	ANT 0: 12.43dBm Max. ANT 1: 14.79dBm Max. Total: 16.71dBm Max.
Type of Modulation:	DSSS, CCK, OFDM
Antenna installation:	ANT0: PCB board antenna ANT1: Ceramic antenna
Antenna Gain:	ANT 0: 2.0dBi ANT 1: 4.0dBi
Ratings:	Battery: DC 3.7V 3000mAh Input: 5.0V $\overline{=}$ 3.0A
Adapter:	Model: ICP20-050-3000B Input: 100-240V~, 50/60Hz, 0.6A Output: 5.0V $\overline{=}$ 3.0A, 15W

4.3 Channel List

Wi-Fi

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2412	2	2417	3	2422	4	2427
5	2432	6	2437	7	2442	8	2447
9	2452	10	2457	11	2462	-	-

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

4.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.6 Abnormalities from Standard Conditions

None.

4.7 Test Mode

Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Power Spectral Density	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
6dB Bandwidth	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Band Edge	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Transmitter Spurious Emissions	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX

Note: Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

5 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3), (4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

6 Equipment Used during Test

6.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	2022-08-01	2023-07-31
2.	LISN	R&S	ENV216	100115	2022-08-01	2023-07-31
3.	Cable	Top	TYPE16(3.5M)	-	2022-08-01	2023-07-31
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP30	100091	2023-04-24	2024-04-23
2	Amplifier	Agilent	8447D	2944A10178	2022-08-01	2023-07-31
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2022-08-07	2023-08-06
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2022-08-01	2023-07-31
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2023-02-02	2024-02-01
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2022-07-29	2023-07-28
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2022-08-08	2023-08-07
8	Coaxial Cable (above 1GHz)	ZT26-NJ-NJ-8M/FA	1GHz-18GHz	NA	2023-04-24	2024-04-23
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2023-04-24	2024-04-23
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2022-10-30	2023-10-29
3	Active Loop Antenna	Com-Power Corp.	AL-130R	10160007	2022-05-02	2023-05-01
4	Amplifier	ANRITSU	MH648A	M43381	2023-04-24	2024-04-23
5	Cable	HUBER+SUHNER	CBL2	525178	2023-04-24	2024-04-23
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Spectrum Analyzer	R&S	FSP40	100501	2022-08-01	2023-07-31
2.	EXA Signal Analyzer	Malaysia Keysight	N9010A	MY50520207	2023-04-28	2024-04-27

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64dB (AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10 ⁻⁷ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor: k=2	

6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R. China.

7 Conducted Emission

Test Requirement: 47CFR FCC Part15 Subpart C §15.207
Test Method: ANSI C63.10:2013
Test Result: PASS
Frequency Range: 150kHz to 30MHz
Limit:

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5.0	56	46
.0 to 30	60	50
*Decreases with the logarithm of the frequency.		

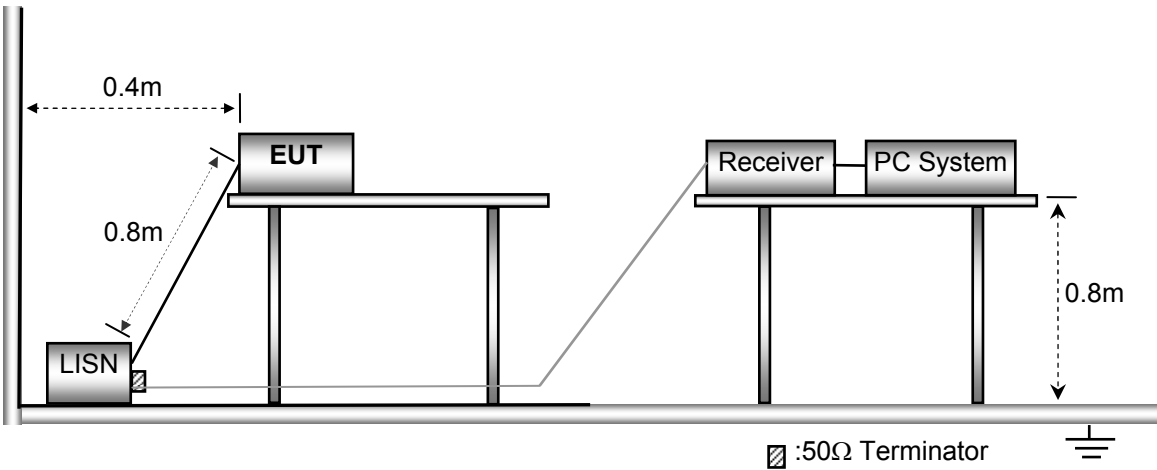
7.1 E.U.T. Operation

Operating Environment:
Temperature: 26.5 °C
Humidity: 52.3 % RH
Atmospheric Pressure: 101.6kPa
Test Voltage: AC 120V, 60Hz
EUT Operation:

The test was performed in TX transmitting mode, the worst data were shown in the report.

7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



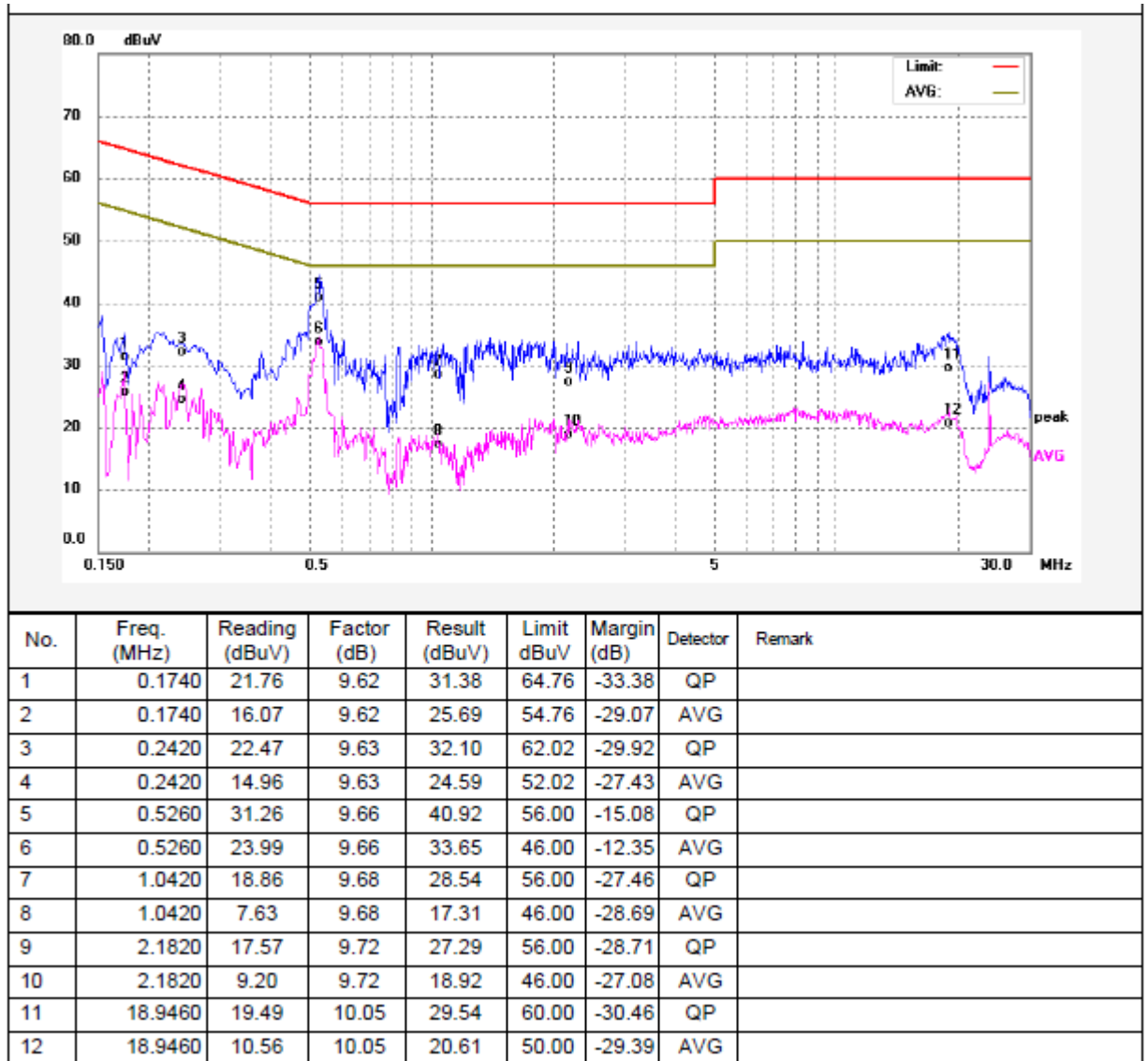
7.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

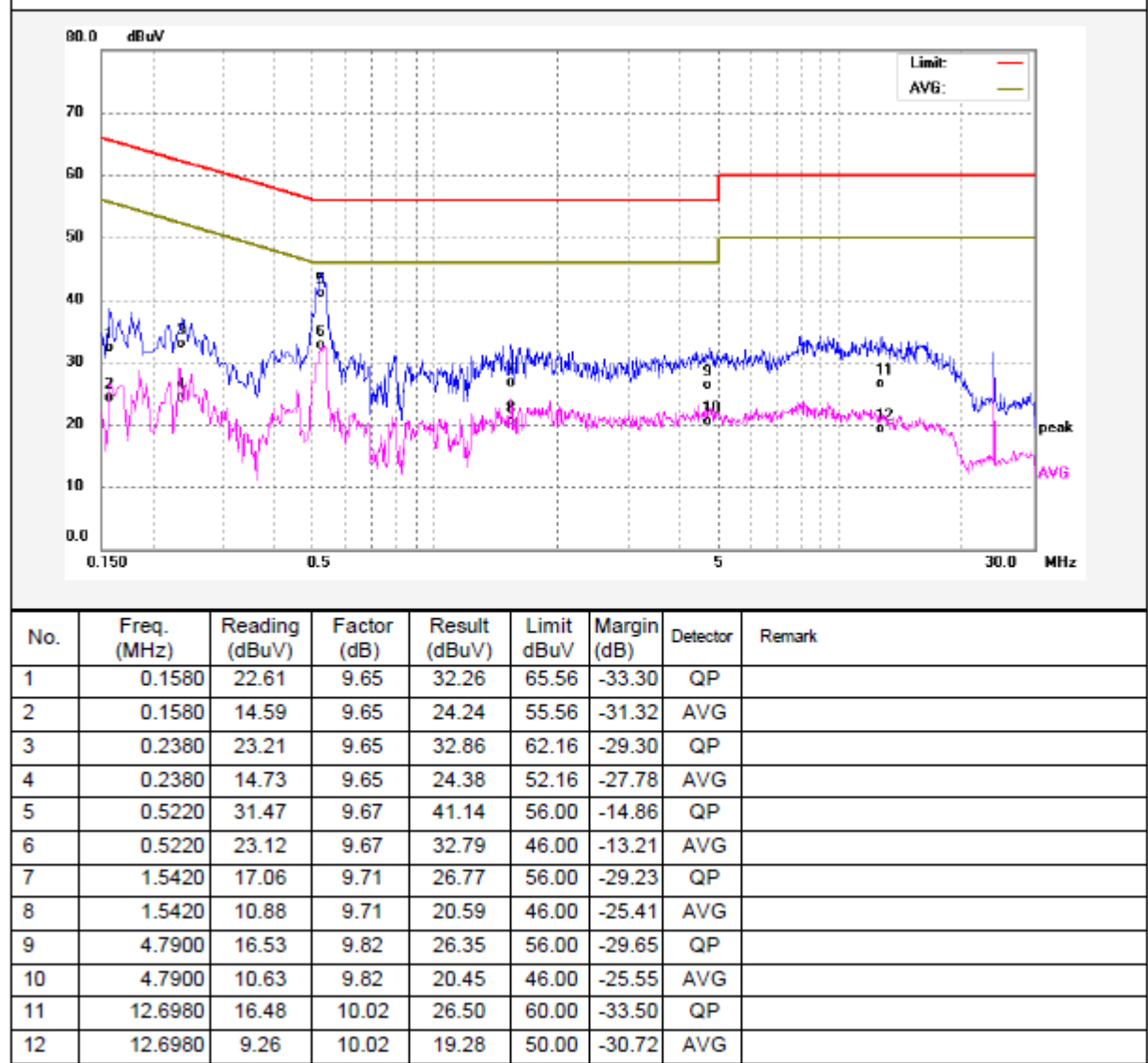
7.4 Conducted Emission Test Result

Remark: only the worst data (TX 11b mode High channel mode) were reported

Live line:



Neutral line:



8 Radiated Emissions

Test Requirement: 47CFR FCC Part15 Subpart C §15.209&15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019;
ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment:

Temperature: 26.6 °C

Humidity: 57.8 % RH

Atmospheric Pressure: 101.2kPa

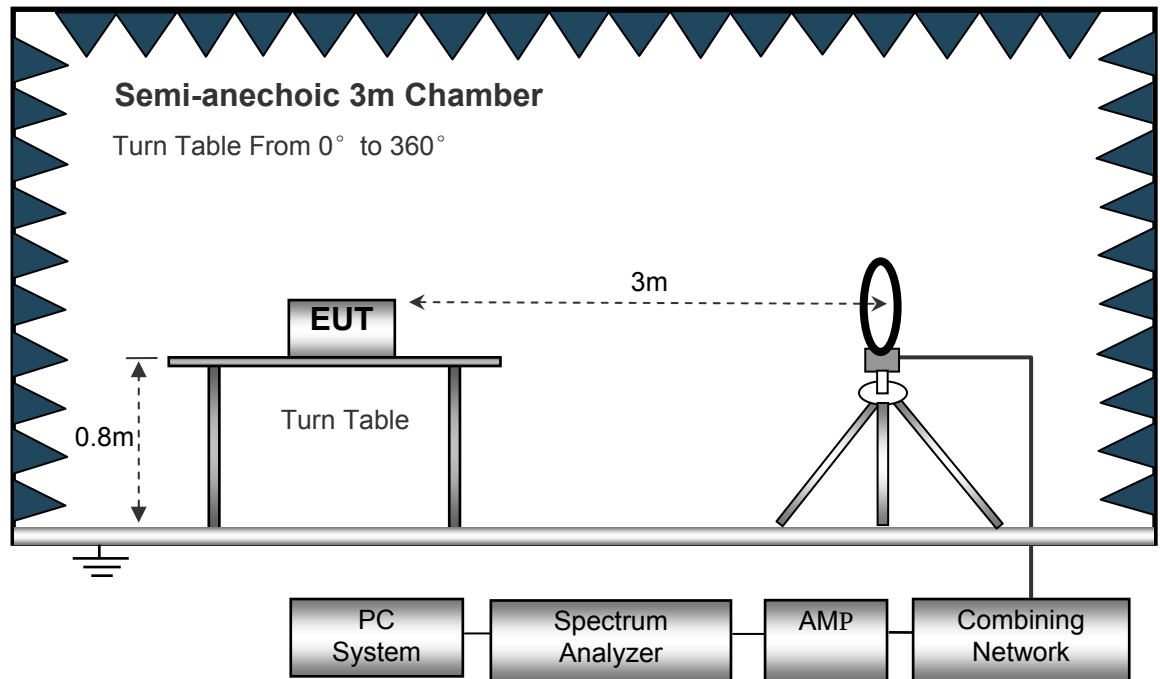
EUT Operation:

The test was performed in TX transmitting mode, the test data were shown in the report.

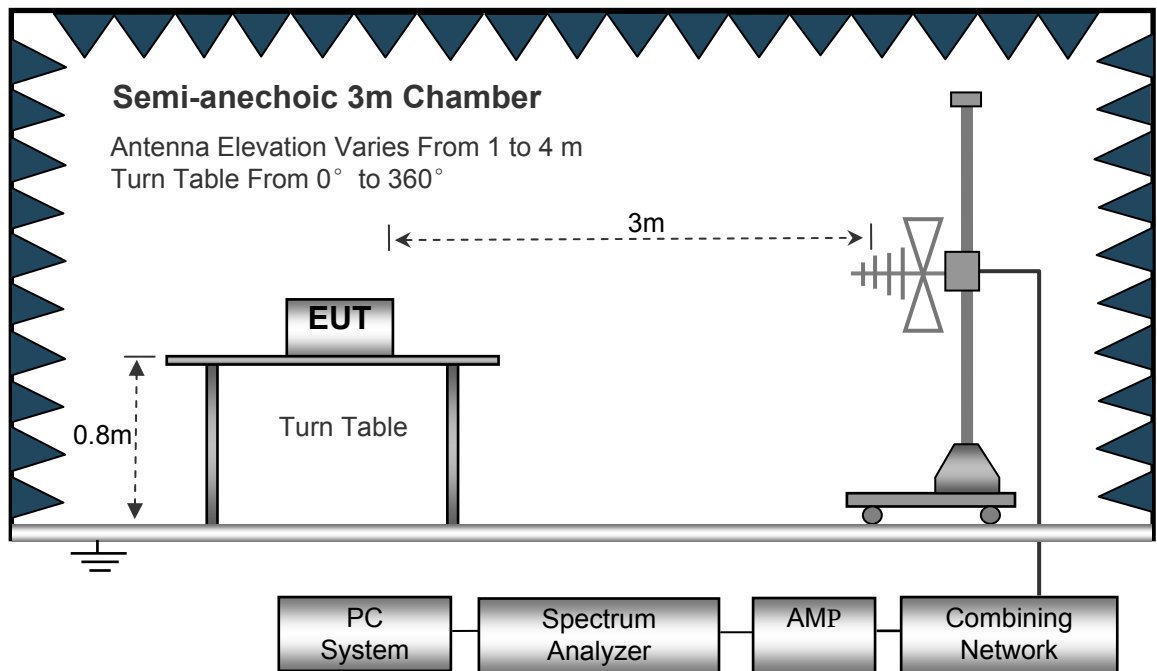
8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

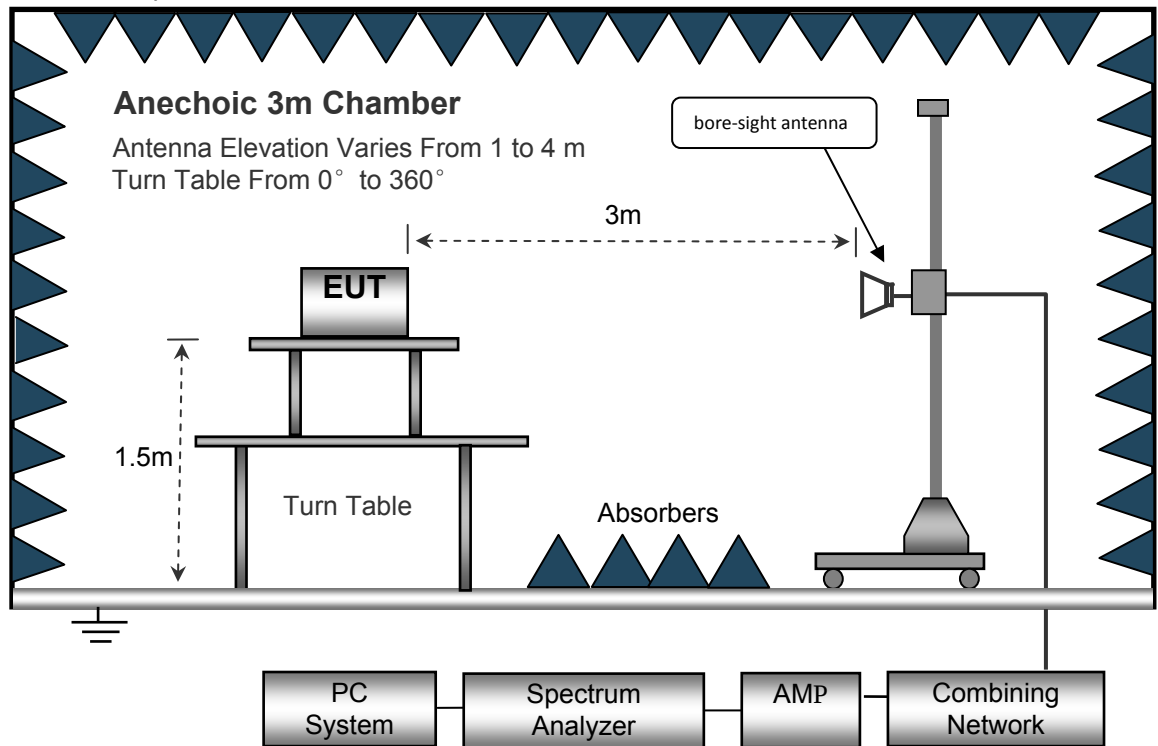
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
 IF Bandwidth..... 10kHz
 Video Bandwidth..... 10kHz
 Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 100kHz
 Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 1MHz
 Video Bandwidth..... 3MHz
 Detector Ave.
 Resolution Bandwidth..... 1MHz
 Video Bandwidth..... 10Hz

8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

8.5 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

8.6 Summary of Test Results

Note:

Only the worst-case 11b mode were record in the report.

Test Frequency: 9kHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 8GHz

ANT 0

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Low Channel 2412MHz									
258.31	41.57	QP	275	1.9	H	-12.36	29.21	46.00	-16.79
258.31	45.36	QP	205	1.8	V	-12.36	33.00	46.00	-13.00
4824.00	54.56	PK	191	1.0	V	-1.06	53.50	74.00	-20.50
4824.00	42.06	Ave	191	1.0	V	-1.06	41.00	54.00	-13.00
7236.00	48.51	PK	294	1.4	H	1.33	49.84	74.00	-24.16
7236.00	37.23	Ave	294	1.4	H	1.33	38.56	54.00	-15.44
2330.28	45.04	PK	153	1.7	V	-13.19	31.85	74.00	-42.15
2330.28	39.05	Ave	153	1.7	V	-13.19	25.86	54.00	-28.14
2382.39	43.83	PK	126	1.2	H	-13.14	30.69	74.00	-43.31
2382.39	38.74	Ave	126	1.2	H	-13.14	25.60	54.00	-28.40
2487.57	42.53	PK	10	1.3	V	-13.08	29.45	74.00	-44.55
2487.57	38.66	Ave	10	1.3	V	-13.08	25.58	54.00	-28.42

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Middle Channel 2437MHz									
258.31	40.38	QP	139	1.8	H	-12.36	28.02	46.00	-17.98
258.31	45.49	QP	3	1.4	V	-12.36	33.13	46.00	-12.87
4874.00	54.31	PK	45	1.0	V	-0.62	53.69	74.00	-20.31
4874.00	40.96	Ave	45	1.0	V	-0.62	40.34	54.00	-13.66
7311.00	47.80	PK	113	1.3	H	2.21	50.01	74.00	-23.99
7311.00	36.94	Ave	113	1.3	H	2.21	39.15	54.00	-14.85
2346.76	45.15	PK	226	1.9	V	-13.19	31.96	74.00	-42.04
2346.76	37.04	Ave	226	1.9	V	-13.19	23.85	54.00	-30.15
2383.63	43.75	PK	157	1.6	H	-13.14	30.61	74.00	-43.39
2383.63	36.78	Ave	157	1.6	H	-13.14	23.64	54.00	-30.36
2493.75	42.15	PK	297	1.4	V	-13.08	29.07	74.00	-44.93
2493.75	36.21	Ave	297	1.4	V	-13.08	23.13	54.00	-30.87

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: High Channel 2462MHz									
258.31	40.70	QP	302	1.1	H	-12.36	28.34	46.00	-17.66
258.31	44.36	QP	222	1.2	V	-12.36	32.00	46.00	-14.00
4924.00	53.48	PK	200	1.6	V	-0.24	53.24	74.00	-20.76
4924.00	39.93	Ave	200	1.6	V	-0.24	39.69	54.00	-14.31
7386.00	48.68	PK	79	1.1	H	2.84	51.52	74.00	-22.48
7386.00	38.41	Ave	79	1.1	H	2.84	41.25	54.00	-12.75
2318.59	45.52	PK	45	1.8	V	-13.19	32.33	74.00	-41.67
2318.59	37.16	Ave	45	1.8	V	-13.19	23.97	54.00	-30.03
2384.89	42.35	PK	208	1.2	H	-13.14	29.21	74.00	-44.79
2384.89	38.83	Ave	208	1.2	H	-13.14	25.69	54.00	-28.31
2487.77	43.80	PK	67	1.9	V	-13.08	30.72	74.00	-43.28
2487.77	37.47	Ave	67	1.9	V	-13.08	24.39	54.00	-29.61

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: Low Channel 2412MHz									
258.31	41.93	QP	14	1.3	H	-12.36	29.57	46.00	-16.43
258.31	44.64	QP	327	1.3	V	-12.36	32.28	46.00	-13.72
4824.00	53.01	PK	318	1.5	V	-1.06	51.95	74.00	-22.05
4824.00	38.85	Ave	318	1.5	V	-1.06	37.79	54.00	-16.21
7236.00	47.56	PK	331	1.9	H	1.33	48.89	74.00	-25.11
7236.00	38.40	Ave	331	1.9	H	1.33	39.73	54.00	-14.27
2322.16	46.40	PK	287	1.7	V	-13.19	33.21	74.00	-40.79
2322.16	37.12	Ave	287	1.7	V	-13.19	23.93	54.00	-30.07
2352.15	42.05	PK	72	1.6	H	-13.14	28.91	74.00	-45.09
2352.15	38.34	Ave	72	1.6	H	-13.14	25.20	54.00	-28.80
2498.77	43.75	PK	125	1.1	V	-13.08	30.67	74.00	-43.33
2498.77	38.59	Ave	125	1.1	V	-13.08	25.51	54.00	-28.49

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: Middle Channel 2437MHz									
258.31	41.64	QP	206	1.6	H	-12.36	29.28	46.00	-16.72
258.31	44.42	QP	215	1.5	V	-12.36	32.06	46.00	-13.94
4874.00	52.06	PK	75	1.9	V	-0.62	51.44	74.00	-22.56
4874.00	39.91	Ave	75	1.9	V	-0.62	39.29	54.00	-14.71
7311.00	46.66	PK	20	1.5	H	2.21	48.87	74.00	-25.13
7311.00	38.54	Ave	20	1.5	H	2.21	40.75	54.00	-13.25
2328.04	46.39	PK	307	1.9	V	-13.19	33.20	74.00	-40.80
2328.04	37.29	Ave	307	1.9	V	-13.19	24.10	54.00	-29.90
2354.03	44.12	PK	226	1.5	H	-13.14	30.98	74.00	-43.02
2354.03	38.69	Ave	226	1.5	H	-13.14	25.55	54.00	-28.45
2496.46	42.46	PK	347	2.0	V	-13.08	29.38	74.00	-44.62
2496.46	36.67	Ave	347	2.0	V	-13.08	23.59	54.00	-30.41

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: High Channel 2462MHz									
258.31	41.89	QP	39	1.1	H	-12.36	29.53	46.00	-16.47
258.31	45.71	QP	94	1.0	V	-12.36	33.35	46.00	-12.65
4924.00	51.70	PK	310	1.8	V	-0.24	51.46	74.00	-22.54
4924.00	41.01	Ave	310	1.8	V	-0.24	40.77	54.00	-13.23
7386.00	48.04	PK	106	1.9	H	2.84	50.88	74.00	-23.12
7386.00	39.56	Ave	106	1.9	H	2.84	42.40	54.00	-11.60
2314.74	46.02	PK	42	1.7	V	-13.19	32.83	74.00	-41.17
2314.74	39.50	Ave	42	1.7	V	-13.19	26.31	54.00	-27.69
2351.51	43.85	PK	155	1.8	H	-13.14	30.71	74.00	-43.29
2351.51	37.85	Ave	155	1.8	H	-13.14	24.71	54.00	-29.29
2486.52	44.14	PK	163	1.1	V	-13.08	31.06	74.00	-42.94
2486.52	37.17	Ave	163	1.1	V	-13.08	24.09	54.00	-29.91

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n20: Low Channel 2412MHz									
258.31	40.80	QP	230	1.1	H	-12.36	28.44	46.00	-17.56
258.31	46.54	QP	120	1.7	V	-12.36	34.18	46.00	-11.82
4824.00	52.06	PK	300	1.8	V	-1.06	51.00	74.00	-23.00
4824.00	41.74	Ave	300	1.8	V	-1.06	40.68	54.00	-13.32
7236.00	49.24	PK	175	1.5	H	1.33	50.57	74.00	-23.43
7236.00	39.78	Ave	175	1.5	H	1.33	41.11	54.00	-12.89
2319.56	45.59	PK	328	1.0	V	-13.19	32.40	74.00	-41.60
2319.56	38.07	Ave	328	1.0	V	-13.19	24.88	54.00	-29.12
2383.31	43.09	PK	184	1.9	H	-13.14	29.95	74.00	-44.05
2383.31	37.67	Ave	184	1.9	H	-13.14	24.53	54.00	-29.47
2487.24	44.56	PK	258	1.1	V	-13.08	31.48	74.00	-42.52
2487.24	37.79	Ave	258	1.1	V	-13.08	24.71	54.00	-29.29

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n20: Middle Channel 2437MHz									
258.31	42.06	QP	102	1.6	H	-12.36	29.70	46.00	-16.30
258.31	46.75	QP	263	1.2	V	-12.36	34.39	46.00	-11.61
4874.00	51.69	PK	115	2.0	V	-0.62	51.07	74.00	-22.93
4874.00	41.07	Ave	115	2.0	V	-0.62	40.45	54.00	-13.55
7311.00	50.26	PK	205	1.5	H	2.21	52.47	74.00	-21.53
7311.00	41.04	Ave	205	1.5	H	2.21	43.25	54.00	-10.75
2346.27	45.79	PK	82	1.9	V	-13.19	32.60	74.00	-41.40
2346.27	37.14	Ave	82	1.9	V	-13.19	23.95	54.00	-30.05
2385.91	43.53	PK	109	1.4	H	-13.14	30.39	74.00	-43.61
2385.91	38.53	Ave	109	1.4	H	-13.14	25.39	54.00	-28.61
2486.66	42.56	PK	227	1.7	V	-13.08	29.48	74.00	-44.52
2486.66	37.77	Ave	227	1.7	V	-13.08	24.69	54.00	-29.31

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n20: High Channel 2462MHz									
258.31	41.23	QP	273	1.7	H	-12.36	28.87	46.00	-17.13
258.31	46.66	QP	205	1.6	V	-12.36	34.30	46.00	-11.70
4924.00	50.52	PK	296	1.4	V	-0.24	50.28	74.00	-23.72
4924.00	39.62	Ave	296	1.4	V	-0.24	39.38	54.00	-14.62
7386.00	48.85	PK	116	1.8	H	2.84	51.69	74.00	-22.31
7386.00	39.76	Ave	116	1.8	H	2.84	42.60	54.00	-11.40
2329.31	46.55	PK	156	1.4	V	-13.19	33.36	74.00	-40.64
2329.31	39.47	Ave	156	1.4	V	-13.19	26.28	54.00	-27.72
2352.56	44.08	PK	171	1.9	H	-13.14	30.94	74.00	-43.06
2352.56	38.04	Ave	171	1.9	H	-13.14	24.90	54.00	-29.10
2494.21	43.97	PK	275	1.6	V	-13.08	30.89	74.00	-43.11
2494.21	38.15	Ave	275	1.6	V	-13.08	25.07	54.00	-28.93

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: Low Channel 2422MHz									
258.31	42.68	QP	47	1.6	H	-12.36	30.32	46.00	-15.68
258.31	47.67	QP	124	1.9	V	-12.36	35.31	46.00	-10.69
4844.00	48.07	PK	296	1.8	V	-1.06	47.01	74.00	-26.99
4844.00	38.05	Ave	296	1.8	V	-1.06	36.99	54.00	-17.01
7266.00	46.92	PK	327	1.5	H	1.33	48.25	74.00	-25.75
7266.00	37.14	Ave	327	1.5	H	1.33	38.47	54.00	-15.53
2337.71	46.11	PK	156	1.6	V	-13.19	32.92	74.00	-41.08
2337.71	37.36	Ave	156	1.6	V	-13.19	24.17	54.00	-29.83
2375.89	42.36	PK	103	1.4	H	-13.14	29.22	74.00	-44.78
2375.89	37.32	Ave	103	1.4	H	-13.14	24.18	54.00	-29.82
2491.98	42.11	PK	266	1.3	V	-13.08	29.03	74.00	-44.97
2491.98	37.71	Ave	266	1.3	V	-13.08	24.63	54.00	-29.37

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: Middle Channel 2437MHz									
258.31	42.46	QP	303	1.8	H	-12.36	30.10	46.00	-15.90
258.31	48.58	QP	360	1.4	V	-12.36	36.22	46.00	-9.78
4874.00	48.75	PK	304	1.4	V	-0.62	48.13	74.00	-25.87
4874.00	38.91	Ave	304	1.4	V	-0.62	38.29	54.00	-15.71
7311.00	46.92	PK	48	1.8	H	2.21	49.13	74.00	-24.87
7311.00	36.38	Ave	48	1.8	H	2.21	38.59	54.00	-15.41
2332.36	46.19	PK	224	1.1	V	-13.19	33.00	74.00	-41.00
2332.36	39.69	Ave	224	1.1	V	-13.19	26.50	54.00	-27.50
2379.46	44.85	PK	71	1.3	H	-13.14	31.71	74.00	-42.29
2379.46	37.62	Ave	71	1.3	H	-13.14	24.48	54.00	-29.52
2489.08	42.93	PK	315	1.6	V	-13.08	29.85	74.00	-44.15
2489.08	36.48	Ave	315	1.6	V	-13.08	23.40	54.00	-30.60

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: High Channel 2452MHz									
258.31	41.53	QP	271	1.4	H	-12.36	29.17	46.00	-16.83
258.31	48.84	QP	168	1.2	V	-12.36	36.48	46.00	-9.52
4904.00	48.30	PK	99	1.2	V	-0.24	48.06	74.00	-25.94
4904.00	39.63	Ave	99	1.2	V	-0.24	39.39	54.00	-14.61
7356.00	46.06	PK	313	1.8	H	2.84	48.90	74.00	-25.10
7356.00	35.41	Ave	313	1.8	H	2.84	38.25	54.00	-15.75
2325.52	45.31	PK	69	1.8	V	-13.19	32.12	74.00	-41.88
2325.52	38.06	Ave	69	1.8	V	-13.19	24.87	54.00	-29.13
2354.11	44.50	PK	174	1.1	H	-13.14	31.36	74.00	-42.64
2354.11	36.53	Ave	174	1.1	H	-13.14	23.39	54.00	-30.61
2496.30	43.48	PK	276	1.7	V	-13.08	30.40	74.00	-43.60
2496.30	37.16	Ave	276	1.7	V	-13.08	24.08	54.00	-29.92

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 8GHz
ANT 1

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Low Channel 2412MHz									
258.31	41.53	QP	132	1.1	H	-12.36	29.17	46.00	-16.83
258.31	44.98	QP	247	1.1	V	-12.36	32.62	46.00	-13.38
4824.00	54.77	PK	134	1.4	V	-1.06	53.71	74.00	-20.29
4824.00	42.98	Ave	134	1.4	V	-1.06	41.92	54.00	-12.08
7236.00	48.39	PK	196	1.5	H	1.33	49.72	74.00	-24.28
7236.00	36.78	Ave	196	1.5	H	1.33	38.11	54.00	-15.89
2313.43	45.75	PK	110	1.2	V	-13.19	32.56	74.00	-41.44
2313.43	38.91	Ave	110	1.2	V	-13.19	25.72	54.00	-28.28
2383.80	44.62	PK	31	1.2	H	-13.14	31.48	74.00	-42.52
2383.80	36.78	Ave	31	1.2	H	-13.14	23.64	54.00	-30.36
2497.24	43.33	PK	263	1.7	V	-13.08	30.25	74.00	-43.75
2497.24	36.04	Ave	263	1.7	V	-13.08	22.96	54.00	-31.04

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Middle Channel 2437MHz									
258.31	42.40	QP	26	2.0	H	-12.36	30.04	46.00	-15.96
258.31	44.53	QP	113	1.1	V	-12.36	32.17	46.00	-13.83
4874.00	54.20	PK	92	1.1	V	-0.62	53.58	74.00	-20.42
4874.00	43.44	Ave	92	1.1	V	-0.62	42.82	54.00	-11.18
7311.00	48.41	PK	243	1.9	H	2.21	50.62	74.00	-23.38
7311.00	35.63	Ave	243	1.9	H	2.21	37.84	54.00	-16.16
2332.60	45.04	PK	84	1.6	V	-13.19	31.85	74.00	-42.15
2332.60	39.24	Ave	84	1.6	V	-13.19	26.05	54.00	-27.95
2372.50	43.30	PK	127	1.7	H	-13.14	30.16	74.00	-43.84
2372.50	37.61	Ave	127	1.7	H	-13.14	24.47	54.00	-29.53
2488.18	42.33	PK	64	1.7	V	-13.08	29.25	74.00	-44.75
2488.18	38.11	Ave	64	1.7	V	-13.08	25.03	54.00	-28.97

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: High Channel 2462MHz									
258.31	43.38	QP	10	1.9	H	-12.36	31.02	46.00	-14.98
258.31	43.10	QP	166	1.0	V	-12.36	30.74	46.00	-15.26
4924.00	54.32	PK	191	1.4	V	-0.24	54.08	74.00	-19.92
4924.00	43.52	Ave	191	1.4	V	-0.24	43.28	54.00	-10.72
7386.00	47.90	PK	274	1.5	H	2.84	50.74	74.00	-23.26
7386.00	35.47	Ave	274	1.5	H	2.84	38.31	54.00	-15.69
2321.97	45.95	PK	309	1.1	V	-13.19	32.76	74.00	-41.24
2321.97	37.54	Ave	309	1.1	V	-13.19	24.35	54.00	-29.65
2377.04	43.05	PK	98	2.0	H	-13.14	29.91	74.00	-44.09
2377.04	37.83	Ave	98	2.0	H	-13.14	24.69	54.00	-29.31
2498.65	43.18	PK	222	1.5	V	-13.08	30.10	74.00	-43.90
2498.65	38.90	Ave	222	1.5	V	-13.08	25.82	54.00	-28.18

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: Low Channel 2412MHz									
258.31	43.63	QP	32	1.7	H	-12.36	31.27	46.00	-14.73
258.31	42.31	QP	144	1.9	V	-12.36	29.95	46.00	-16.05
4824.00	55.09	PK	38	1.3	V	-1.06	54.03	74.00	-19.97
4824.00	43.17	Ave	38	1.3	V	-1.06	42.11	54.00	-11.89
7236.00	47.83	PK	255	1.3	H	1.33	49.16	74.00	-24.84
7236.00	36.92	Ave	255	1.3	H	1.33	38.25	54.00	-15.75
2317.31	45.33	PK	226	1.9	V	-13.19	32.14	74.00	-41.86
2317.31	37.97	Ave	226	1.9	V	-13.19	24.78	54.00	-29.22
2371.52	44.49	PK	344	1.6	H	-13.14	31.35	74.00	-42.65
2371.52	37.49	Ave	344	1.6	H	-13.14	24.35	54.00	-29.65
2487.53	44.43	PK	64	1.0	V	-13.08	31.35	74.00	-42.65
2487.53	38.59	Ave	64	1.0	V	-13.08	25.51	54.00	-28.49

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: Middle Channel 2437MHz									
258.31	42.57	QP	126	2.0	H	-12.36	30.21	46.00	-15.79
258.31	43.42	QP	103	1.3	V	-12.36	31.06	46.00	-14.94
4874.00	55.26	PK	250	1.0	V	-0.62	54.64	74.00	-19.36
4874.00	44.45	Ave	250	1.0	V	-0.62	43.83	54.00	-10.17
7311.00	47.72	PK	333	1.3	H	2.21	49.93	74.00	-24.07
7311.00	35.61	Ave	333	1.3	H	2.21	37.82	54.00	-16.18
2325.31	45.21	PK	270	1.8	V	-13.19	32.02	74.00	-41.98
2325.31	37.74	Ave	270	1.8	V	-13.19	24.55	54.00	-29.45
2358.34	42.76	PK	281	1.1	H	-13.14	29.62	74.00	-44.38
2358.34	37.03	Ave	281	1.1	H	-13.14	23.89	54.00	-30.11
2489.89	42.58	PK	72	1.5	V	-13.08	29.50	74.00	-44.50
2489.89	36.47	Ave	72	1.5	V	-13.08	23.39	54.00	-30.61

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: High Channel 2462MHz									
258.31	42.23	QP	164	1.7	H	-12.36	29.87	46.00	-16.13
258.31	42.81	QP	68	1.6	V	-12.36	30.45	46.00	-15.55
4924.00	55.52	PK	287	1.3	V	-0.24	55.28	74.00	-18.72
4924.00	44.35	Ave	287	1.3	V	-0.24	44.11	54.00	-9.89
7386.00	46.28	PK	305	1.7	H	2.84	49.12	74.00	-24.88
7386.00	34.45	Ave	305	1.7	H	2.84	37.29	54.00	-16.71
2331.70	46.23	PK	286	1.4	V	-13.19	33.04	74.00	-40.96
2331.70	37.57	Ave	286	1.4	V	-13.19	24.38	54.00	-29.62
2389.97	42.56	PK	79	1.8	H	-13.14	29.42	74.00	-44.58
2389.97	36.80	Ave	79	1.8	H	-13.14	23.66	54.00	-30.34
2484.25	44.44	PK	278	1.1	V	-13.08	31.36	74.00	-42.64
2484.25	36.16	Ave	278	1.1	V	-13.08	23.08	54.00	-30.92

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n20: Low Channel 2412MHz									
258.31	41.84	QP	175	1.2	H	-12.36	29.48	46.00	-16.52
258.31	42.10	QP	144	1.9	V	-12.36	29.74	46.00	-16.26
4824.00	56.63	PK	198	1.5	V	-1.06	55.57	74.00	-18.43
4824.00	44.84	Ave	198	1.5	V	-1.06	43.78	54.00	-10.22
7236.00	45.90	PK	353	1.5	H	1.33	47.23	74.00	-26.77
7236.00	34.73	Ave	353	1.5	H	1.33	36.06	54.00	-17.94
2325.54	45.18	PK	90	1.4	V	-13.19	31.99	74.00	-42.01
2325.54	39.49	Ave	90	1.4	V	-13.19	26.30	54.00	-27.70
2366.59	44.10	PK	41	1.2	H	-13.14	30.96	74.00	-43.04
2366.59	37.22	Ave	41	1.2	H	-13.14	24.08	54.00	-29.92
2487.52	44.67	PK	90	1.6	V	-13.08	31.59	74.00	-42.41
2487.52	38.94	Ave	90	1.6	V	-13.08	25.86	54.00	-28.14

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n20: Middle Channel 2437MHz									
258.31	40.45	QP	121	1.0	H	-12.36	28.09	46.00	-17.91
258.31	41.27	QP	63	1.6	V	-12.36	28.91	46.00	-17.09
4874.00	57.03	PK	84	2.0	V	-0.62	56.41	74.00	-17.59
4874.00	43.83	Ave	84	2.0	V	-0.62	43.21	54.00	-10.79
7311.00	44.92	PK	174	1.9	H	2.21	47.13	74.00	-26.87
7311.00	34.23	Ave	174	1.9	H	2.21	36.44	54.00	-17.56
2311.76	46.39	PK	308	1.6	V	-13.19	33.20	74.00	-40.80
2311.76	39.58	Ave	308	1.6	V	-13.19	26.39	54.00	-27.61
2376.77	44.93	PK	104	1.6	H	-13.14	31.79	74.00	-42.21
2376.77	38.02	Ave	104	1.6	H	-13.14	24.88	54.00	-29.12
2489.64	42.13	PK	65	1.9	V	-13.08	29.05	74.00	-44.95
2489.64	37.49	Ave	65	1.9	V	-13.08	24.41	54.00	-29.59

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n20: High Channel 2462MHz									
258.31	39.49	QP	314	1.9	H	-12.36	27.13	46.00	-18.87
258.31	42.69	QP	338	1.9	V	-12.36	30.33	46.00	-15.67
4924.00	57.20	PK	269	1.4	V	-0.24	56.96	74.00	-17.04
4924.00	43.08	Ave	269	1.4	V	-0.24	42.84	54.00	-11.16
7386.00	44.21	PK	17	1.1	H	2.84	47.05	74.00	-26.95
7386.00	33.25	Ave	17	1.1	H	2.84	36.09	54.00	-17.91
2337.01	46.35	PK	239	1.9	V	-13.19	33.16	74.00	-40.84
2337.01	38.82	Ave	239	1.9	V	-13.19	25.63	54.00	-28.37
2351.26	43.41	PK	217	1.1	H	-13.14	30.27	74.00	-43.73
2351.26	37.51	Ave	217	1.1	H	-13.14	24.37	54.00	-29.63
2485.85	43.47	PK	274	1.3	V	-13.08	30.39	74.00	-43.61
2485.85	38.07	Ave	274	1.3	V	-13.08	24.99	54.00	-29.01

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: Low Channel 2422MHz									
258.31	38.62	QP	225	1.7	H	-12.36	26.26	46.00	-19.74
258.31	42.54	QP	299	1.8	V	-12.36	30.18	46.00	-15.82
4844.00	55.71	PK	296	1.9	V	-1.06	54.65	74.00	-19.35
4844.00	41.58	Ave	296	1.9	V	-1.06	40.52	54.00	-13.48
7266.00	42.33	PK	109	1.1	H	1.33	43.66	74.00	-30.34
7266.00	30.89	Ave	109	1.1	H	1.33	32.22	54.00	-21.78
2326.30	45.58	PK	153	1.6	V	-13.19	32.39	74.00	-41.61
2326.30	39.72	Ave	153	1.6	V	-13.19	26.53	54.00	-27.47
2372.19	44.75	PK	128	1.3	H	-13.14	31.61	74.00	-42.39
2372.19	38.16	Ave	128	1.3	H	-13.14	25.02	54.00	-28.98
2486.05	43.88	PK	312	1.6	V	-13.08	30.80	74.00	-43.20
2486.05	36.84	Ave	312	1.6	V	-13.08	23.76	54.00	-30.24

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: Middle Channel 2437MHz									
258.31	38.61	QP	224	1.1	H	-12.36	26.25	46.00	-19.75
258.31	42.70	QP	186	1.1	V	-12.36	30.34	46.00	-15.66
4874.00	56.28	PK	192	1.2	V	-0.62	55.66	74.00	-18.34
4874.00	41.31	Ave	192	1.2	V	-0.62	40.69	54.00	-13.31
7311.00	42.32	PK	204	1.4	H	2.21	44.53	74.00	-29.47
7311.00	30.12	Ave	204	1.4	H	2.21	32.33	54.00	-21.67
2341.84	46.30	PK	327	1.3	V	-13.19	33.11	74.00	-40.89
2341.84	39.37	Ave	327	1.3	V	-13.19	26.18	54.00	-27.82
2385.90	43.33	PK	100	1.1	H	-13.14	30.19	74.00	-43.81
2385.90	38.62	Ave	100	1.1	H	-13.14	25.48	54.00	-28.52
2494.57	42.58	PK	15	1.6	V	-13.08	29.50	74.00	-44.50
2494.57	37.62	Ave	15	1.6	V	-13.08	24.54	54.00	-29.46

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	RSS-Gen	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11n40: High Channel 2452MHz									
258.31	39.11	QP	274	1.5	H	-12.36	26.75	46.00	-19.25
258.31	42.50	QP	234	1.8	V	-12.36	30.14	46.00	-15.86
4904.00	55.87	PK	22	1.5	V	-0.24	55.63	74.00	-18.37
4904.00	41.64	Ave	22	1.5	V	-0.24	41.40	54.00	-12.60
7356.00	43.27	PK	246	1.2	H	2.84	46.11	74.00	-27.89
7356.00	31.09	Ave	246	1.2	H	2.84	33.93	54.00	-20.07
2348.57	46.43	PK	318	2.0	V	-13.19	33.24	74.00	-40.76
2348.57	39.06	Ave	318	2.0	V	-13.19	25.87	54.00	-28.13
2366.40	42.38	PK	25	1.4	H	-13.14	29.24	74.00	-44.76
2366.40	37.36	Ave	25	1.4	H	-13.14	24.22	54.00	-29.78
2486.36	43.53	PK	243	1.0	V	-13.08	30.45	74.00	-43.55
2486.36	37.72	Ave	243	1.0	V	-13.08	24.64	54.00	-29.36

Test Frequency: 8GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

9 Duty Cycle

ANT 0:

Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
802.11b	4.33	4.46	0.97	97.09	0.13	-0.26
802.11g	0.85	1.10	0.77	77.27	1.12	-2.24
802.11n-HT20	0.66	0.80	0.83	82.50	0.84	-1.67
802.11n-HT40	0.33	0.48	0.69	68.75	1.63	-3.25

ANT 1:

Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
802.11b	4.30	4.40	0.98	97.73	0.10	-0.20
802.11g	0.95	1.13	0.84	84.07	0.75	-1.51
802.11n-HT20	0.66	0.82	0.62	62.26	2.06	-4.12
802.11n-HT40	0.33	0.53	0.62	62.26	2.06	-4.12

Remark:

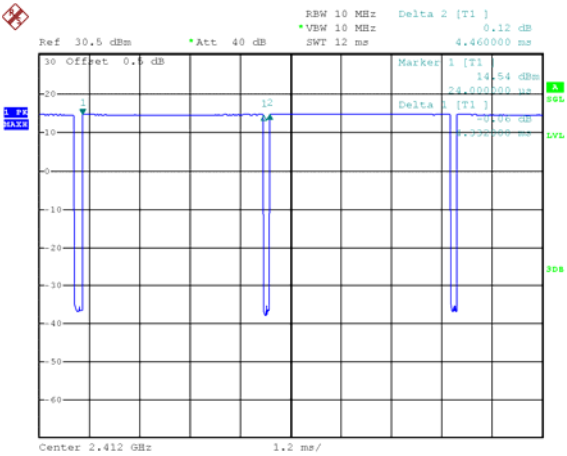
Duty cycle=On Time/period;

Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$;

Average factor= $20 \log_{10} \text{Duty cycle}$

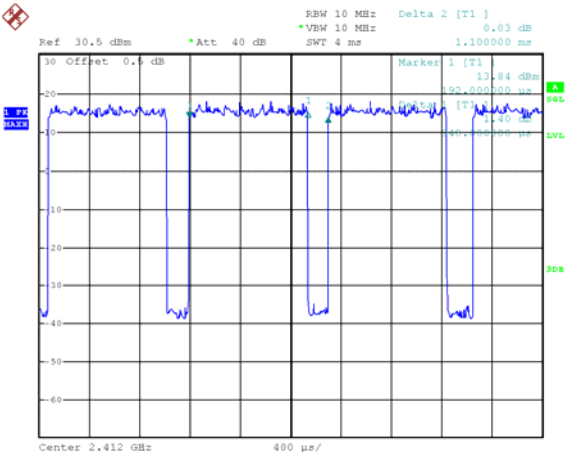
ANT 0

Wi-Fi 802.11b



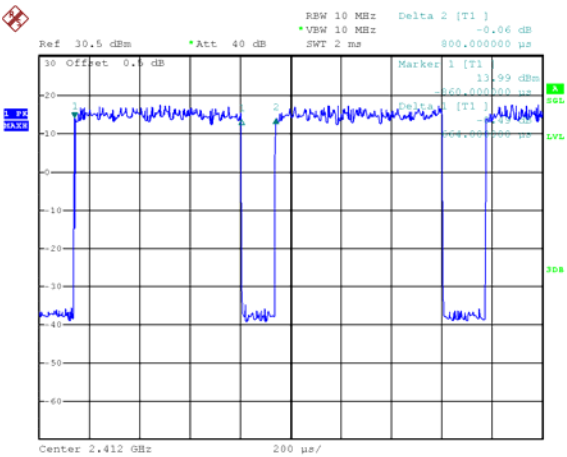
Date: 24.MAY.2023 16:21:59

Wi-Fi 802.11g



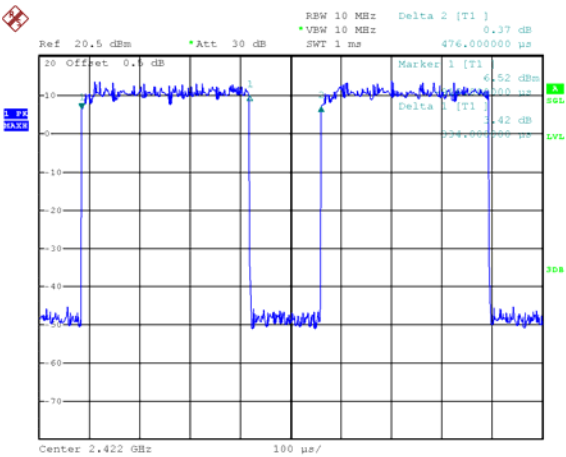
Date: 24.MAY.2023 16:20:56

Wi-Fi 802.11n-HT20



Date: 24.MAY.2023 16:19:53

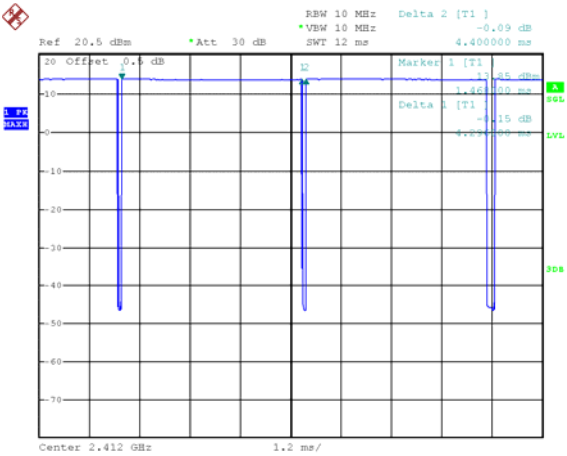
Wi-Fi 802.11n-HT40



Date: 24.MAY.2023 16:18:31

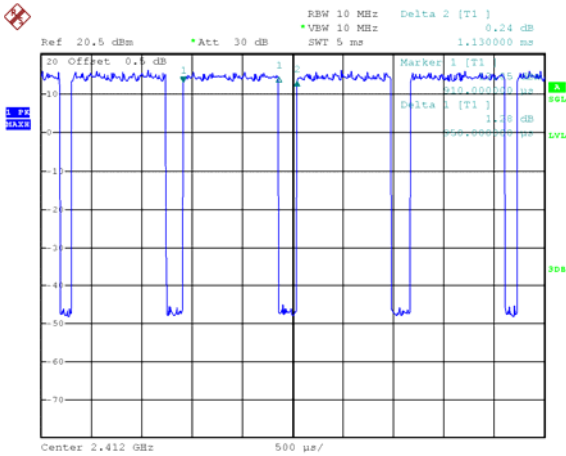
ANT 1

Wi-Fi 802.11b



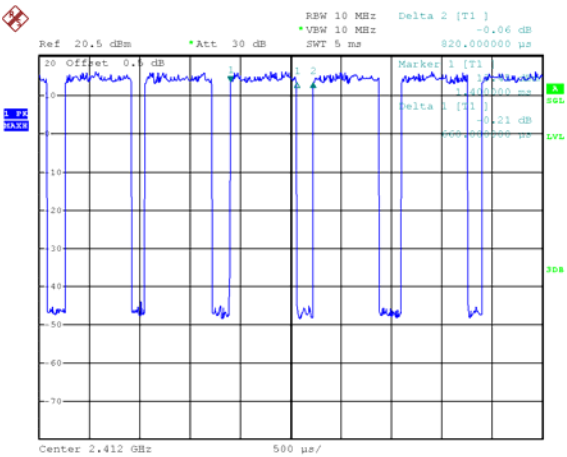
Date: 24.MAY.2023 10:29:01

Wi-Fi 802.11g



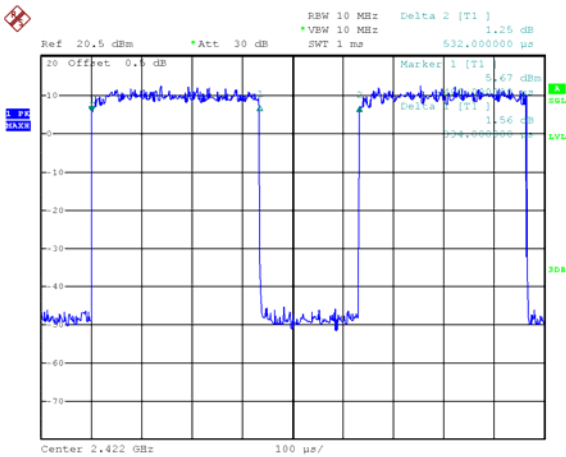
Date: 24.MAY.2023 10:31:25

Wi-Fi 802.11n-HT20



Date: 24.MAY.2023 10:32:31

Wi-Fi 802.11n-HT40



Date: 24.MAY.2023 10:34:16

10 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

Test Result: PASS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

10.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to _ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW _ [3 × RBW].
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

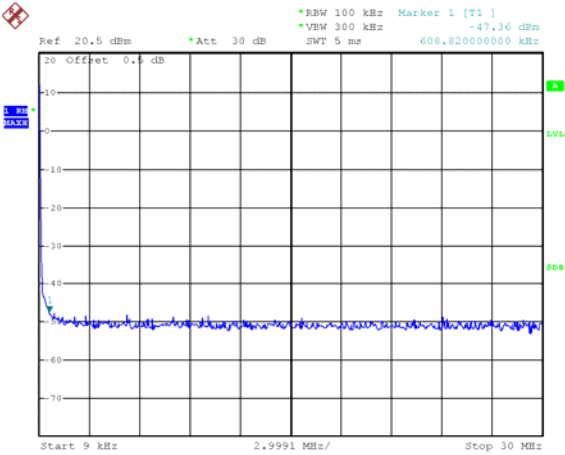
10.2 Test Result

ANT 0:

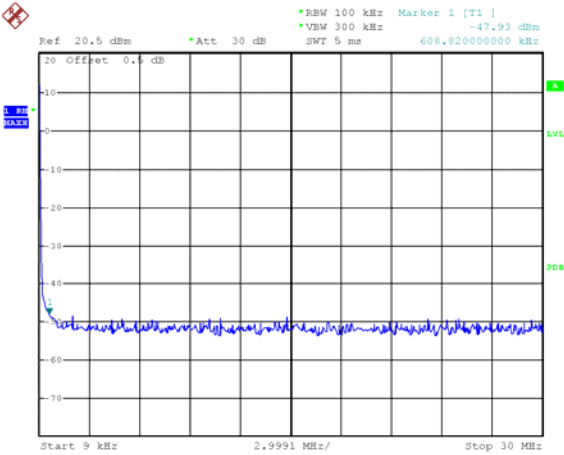
9KHz – 30MHz

Mode: TX 11b channel 1

Mode: TX 11b channel 6

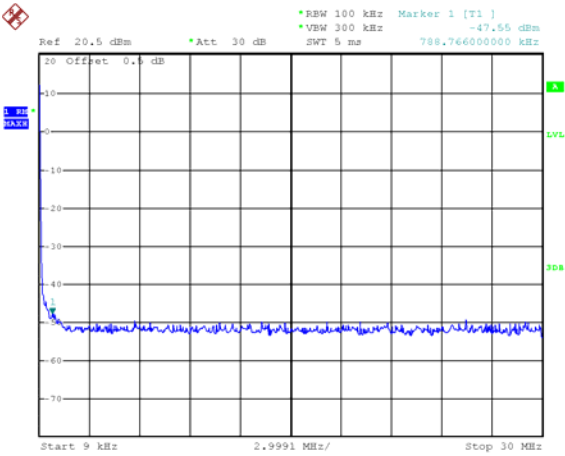


Date: 24.MAY.2023 16:40:47



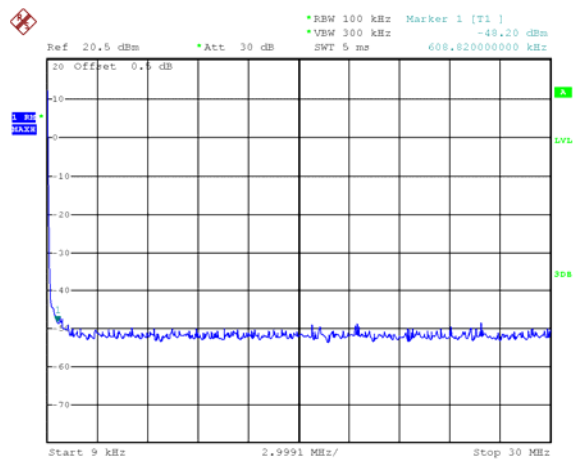
Date: 24.MAY.2023 16:41:39

Mode: TX 11b channel 11



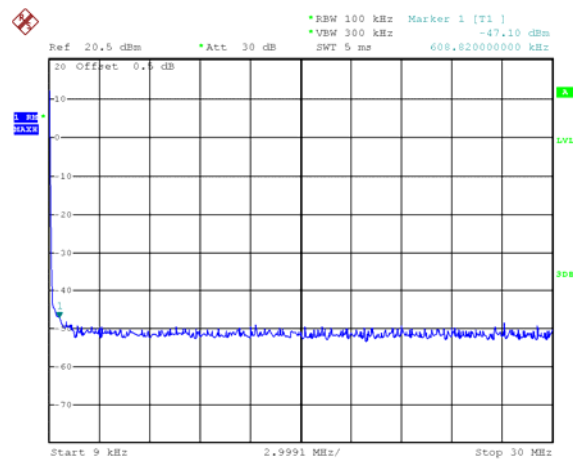
Date: 24.MAY.2023 16:42:11

Mode: TX 11g channel 1



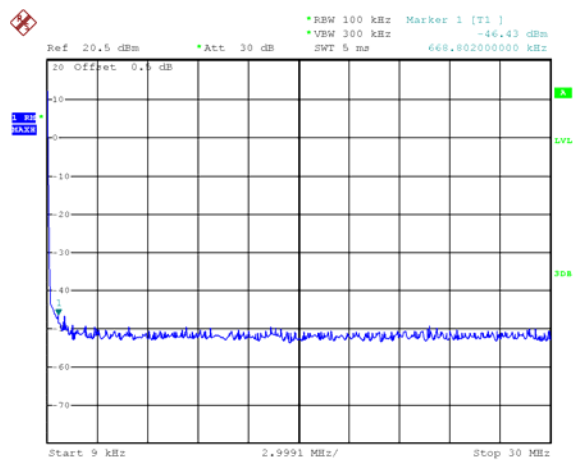
Date: 24.MAY.2023 16:44:38

Mode: TX 11g channel 6



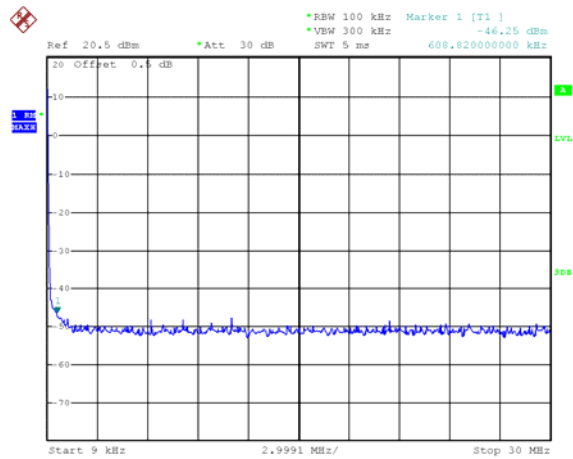
Date: 24.MAY.2023 16:44:08

Mode: TX 11g channel 11



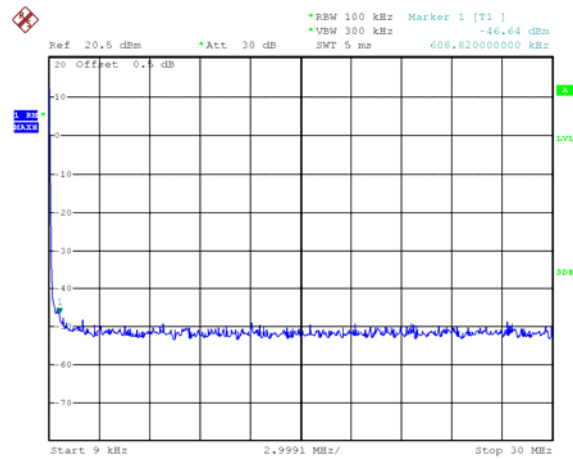
Date: 24.MAY.2023 16:42:37

Mode: TX 11n HT20 channel 1



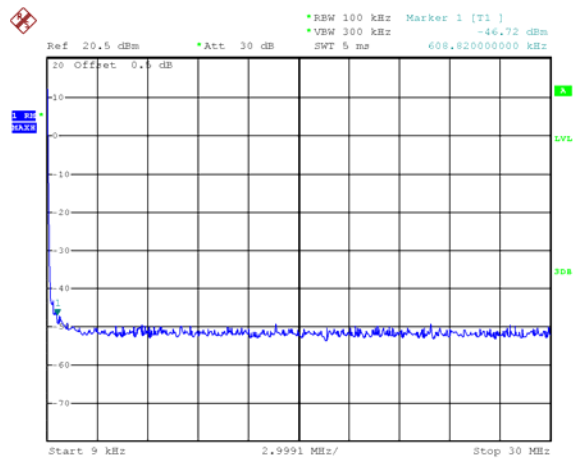
Date: 24.MAY.2023 16:45:30

Mode: TX 11 n HT20 channel 6



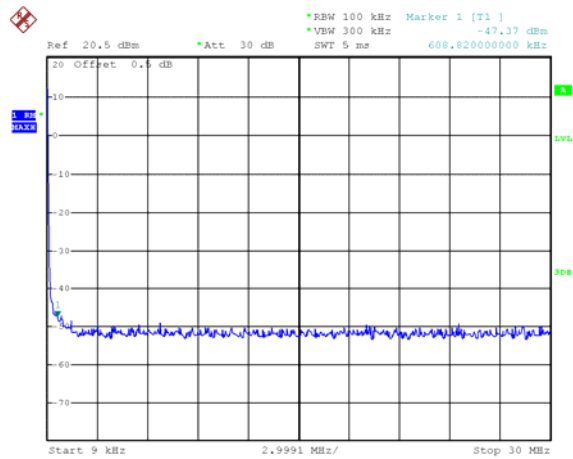
Date: 24.MAY.2023 16:45:58

Mode: TX 11 n HT20 channel 11



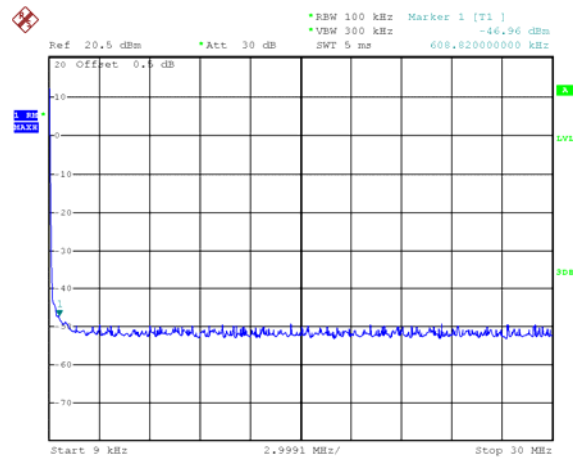
Date: 24.MAY.2023 16:46:36

Mode: TX 11n HT40 channel 3



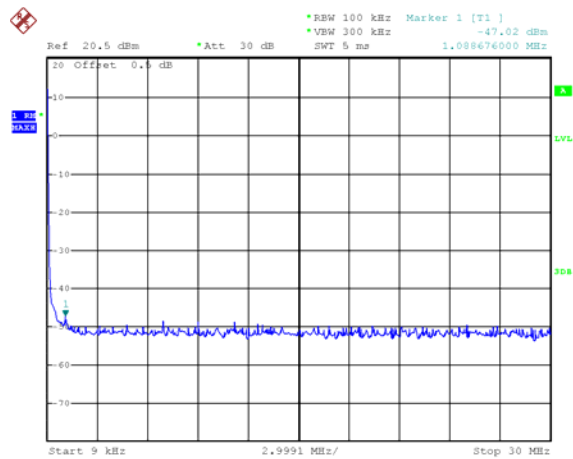
Date: 24.MAY.2023 16:47:54

Mode: TX 11 n HT40 channel 6



Date: 24.MAY.2023 16:47:33

Mode: TX 11 n HT40 channel 9

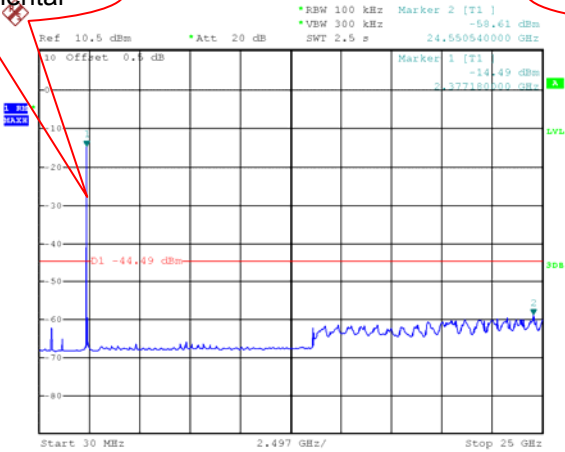


Date: 24.MAY.2023 16:47:07

Above 30MHz

Mode: TX 11b channel 1

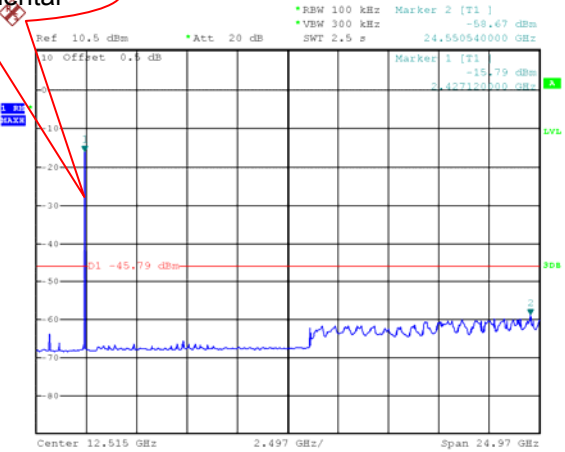
Fundamental



Date: 24.MAY.2023 17:10:22

Mode: TX 11b channel 6

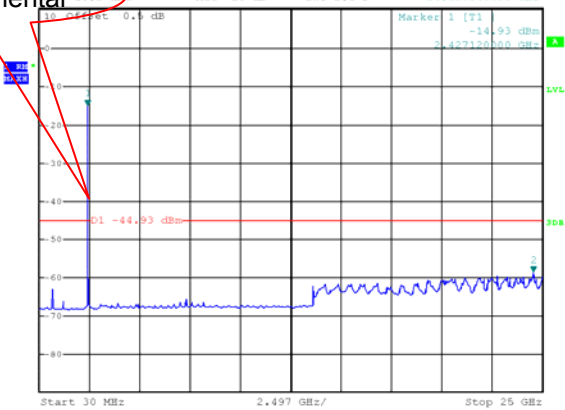
Fundamental



Date: 24.MAY.2023 17:08:59

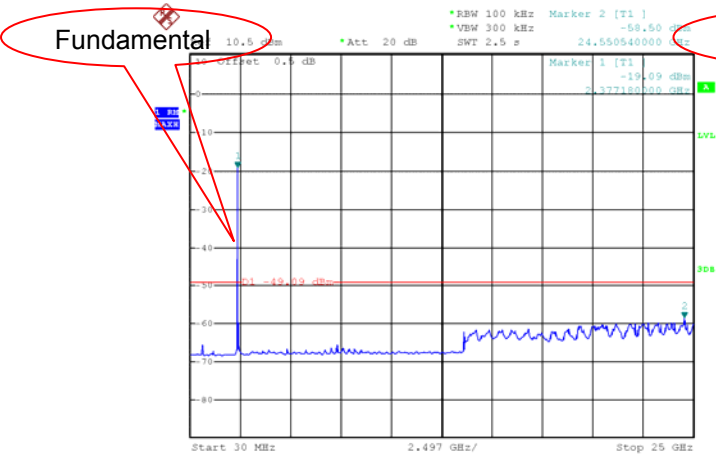
Mode: TX 11b channel 11

Fundamental



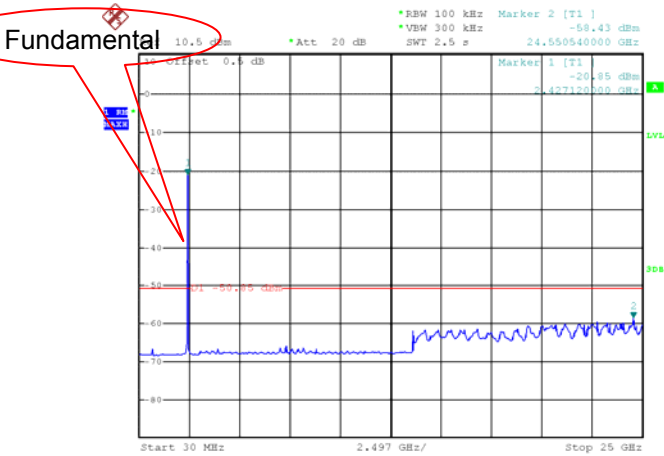
Date: 24.MAY.2023 17:02:29

Mode: TX 11g channel 1



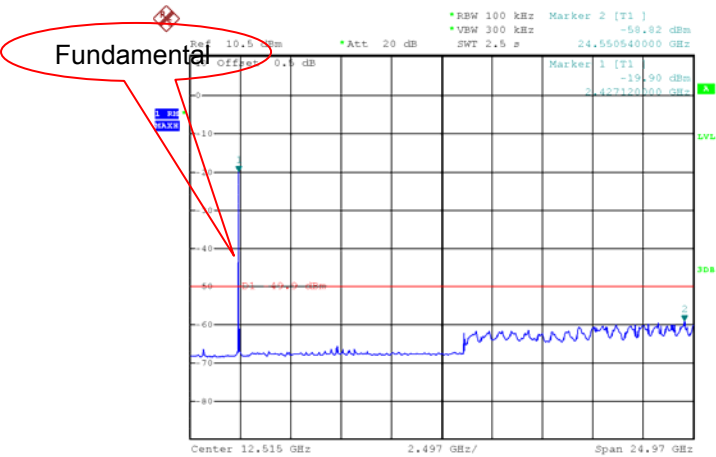
Date: 24.MAY.2023 16:57:30

Mode: TX 11g channel 6



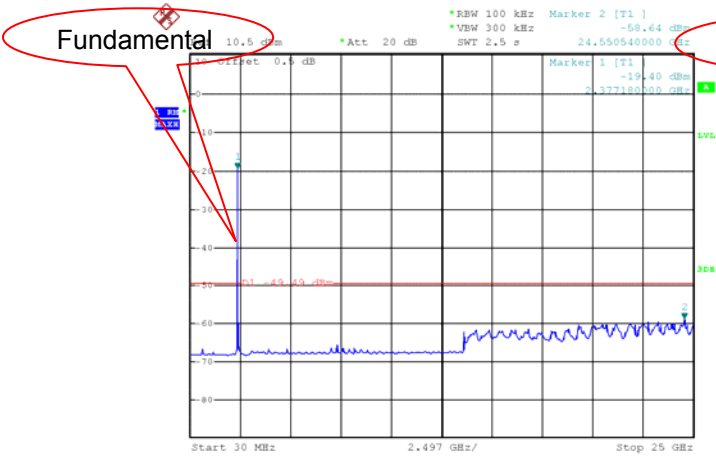
Date: 24.MAY.2023 16:58:55

Mode: TX 11g channel 11



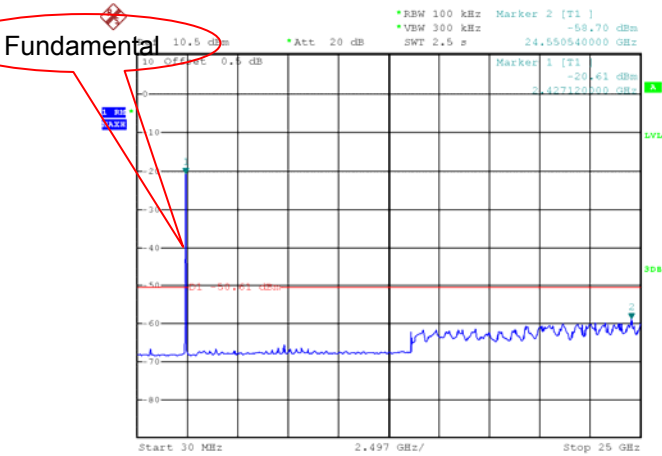
Date: 24.MAY.2023 17:00:38

Mode: TX 11n HT20 channel 1



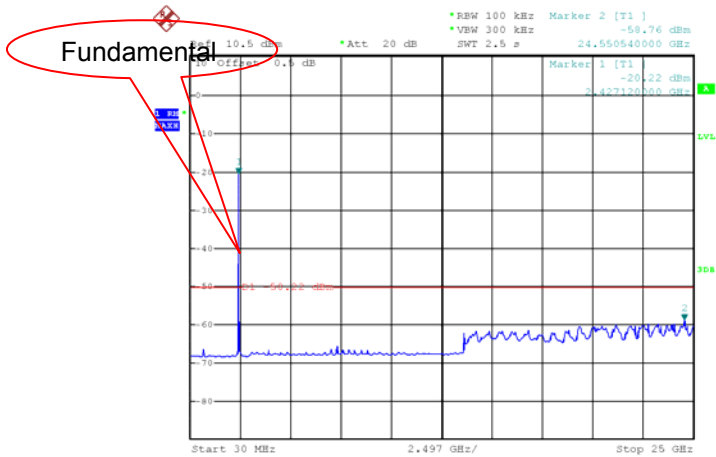
Date: 24.MAY.2023 16:56:20

Mode: TX 11 n HT20 channel 6



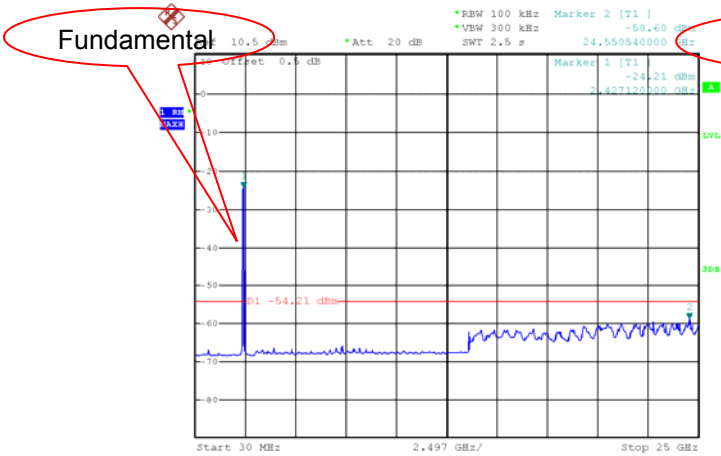
Date: 24.MAY.2023 16:54:42

Mode: TX 11 n HT20 channel 11



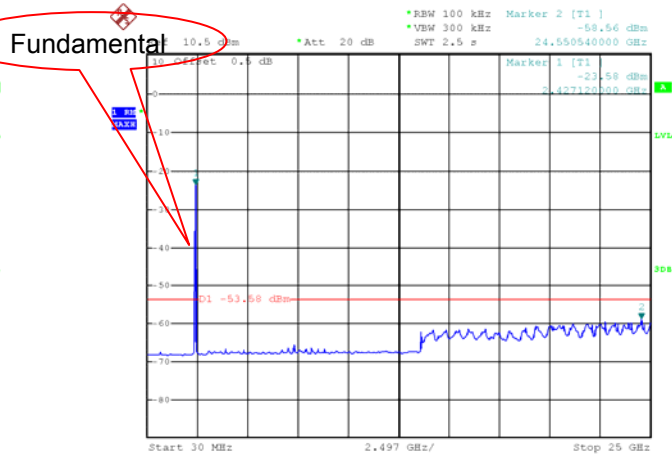
Date: 24.MAY.2023 16:53:52

Mode: TX 11n HT40 channel 3



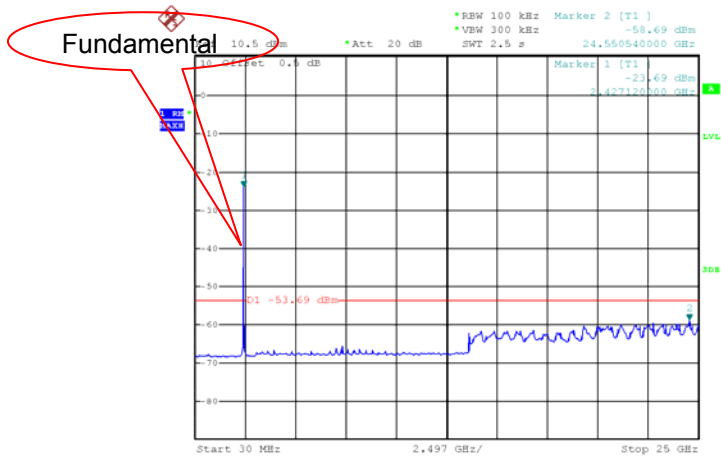
Date: 24.MAY.2023 16:49:17

Mode: TX 11 n HT40 channel 6



Date: 24.MAY.2023 16:51:30

Mode: TX 11 n HT40 channel 9

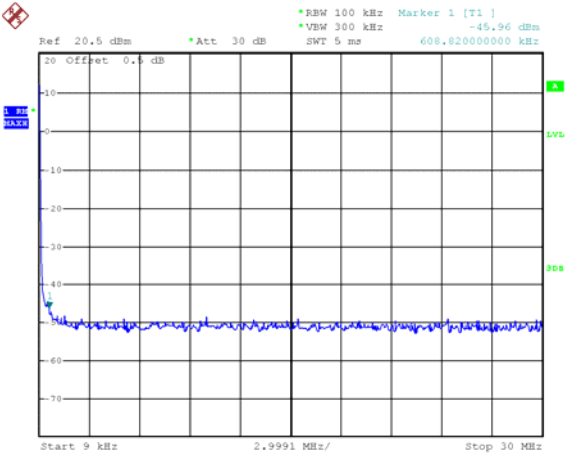


Date: 24.MAY.2023 16:52:54

ANT 1:

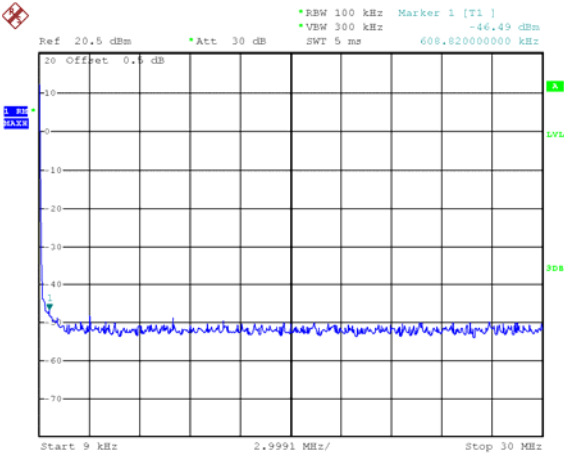
9KHz – 30MHz

Mode: TX 11b channel 1



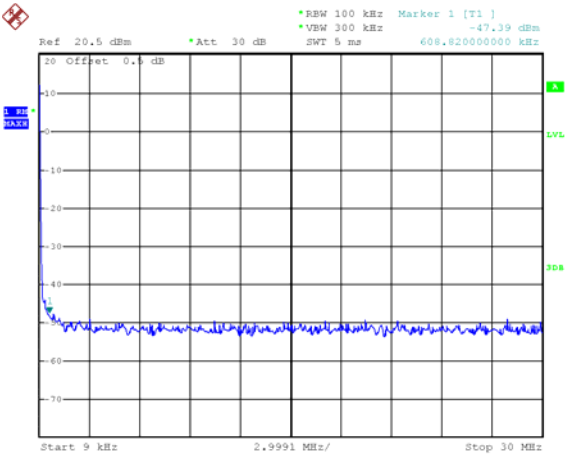
Date: 24.MAY.2023 11:07:27

Mode: TX 11b channel 6



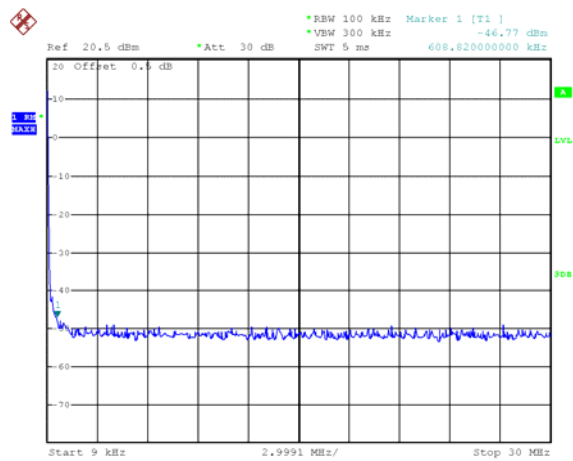
Date: 24.MAY.2023 11:07:49

Mode: TX 11b channel 11



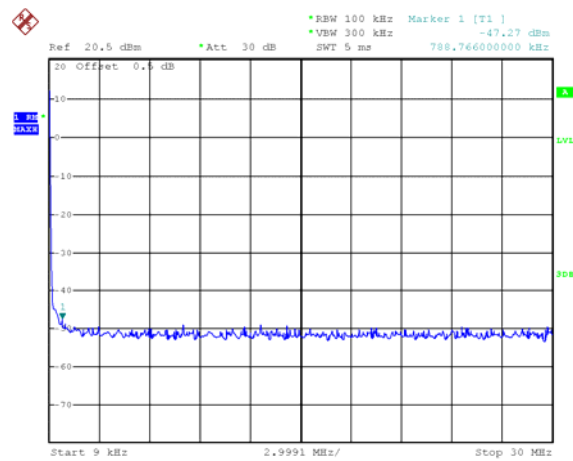
Date: 24.MAY.2023 11:08:14

Mode: TX 11g channel 1



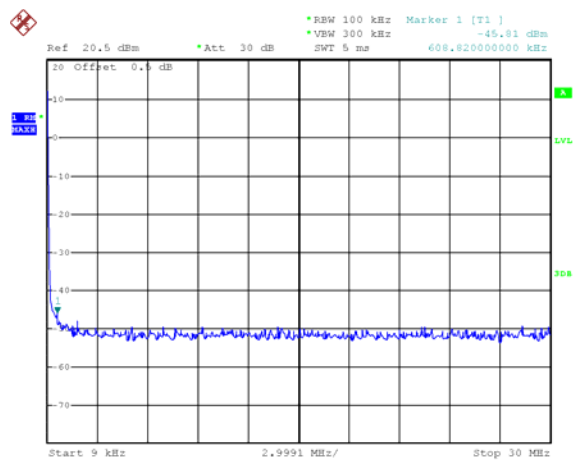
Date: 24.MAY.2023 11:09:42

Mode: TX 11g channel 6



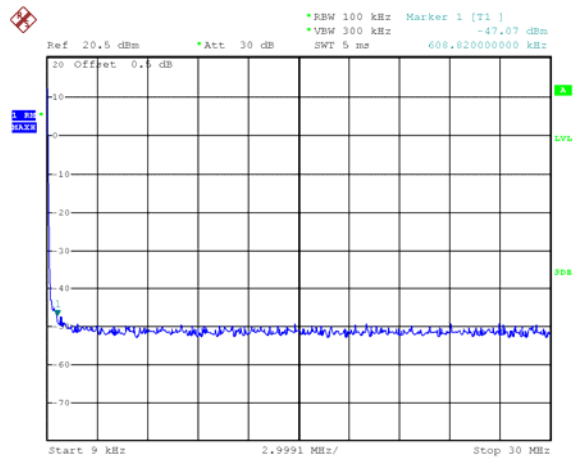
Date: 24.MAY.2023 11:09:13

Mode: TX 11g channel 11



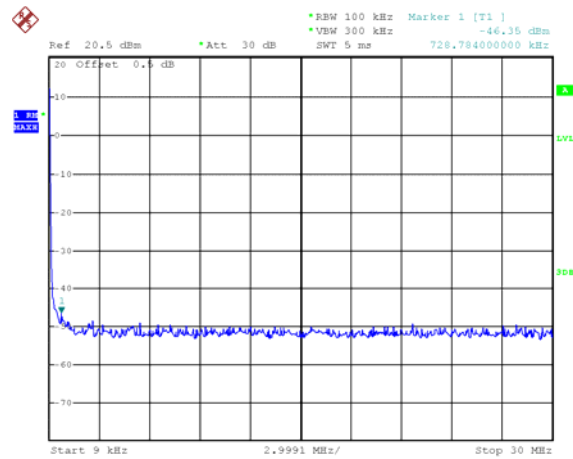
Date: 24.MAY.2023 11:08:43

Mode: TX 11n HT20 channel 1



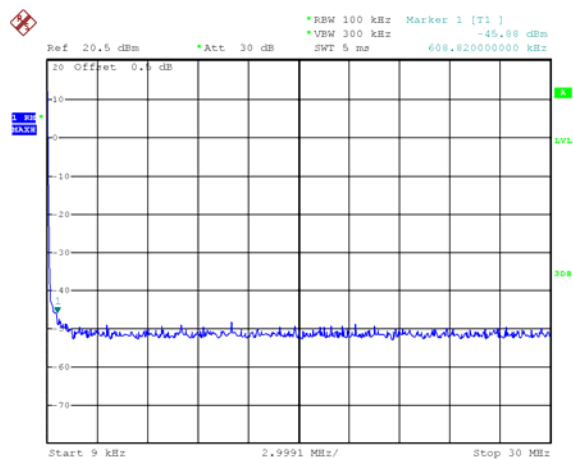
Date: 24.MAY.2023 11:10:28

Mode: TX 11 n HT20 channel 6



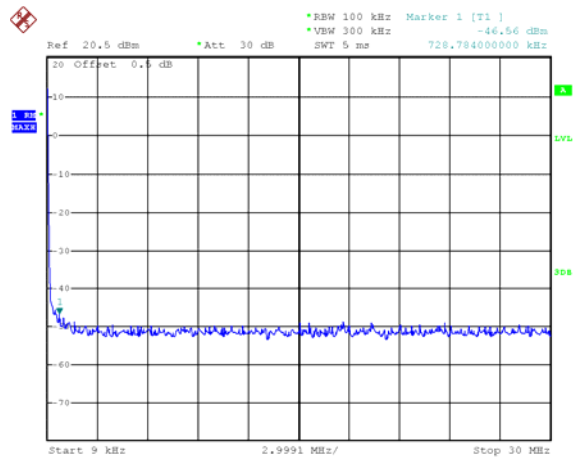
Date: 24.MAY.2023 11:11:14

Mode: TX 11 n HT20 channel 11



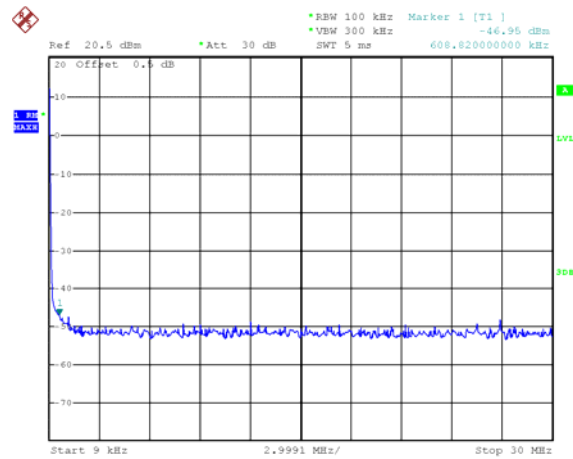
Date: 24.MAY.2023 11:12:00

Mode: TX 11n HT40 channel 3



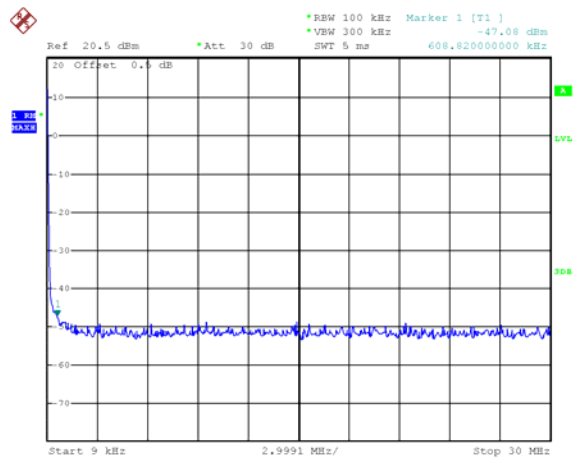
Date: 24.MAY.2023 11:13:28

Mode: TX 11 n HT40 channel 6



Date: 24.MAY.2023 11:12:52

Mode: TX 11 n HT40 channel 9

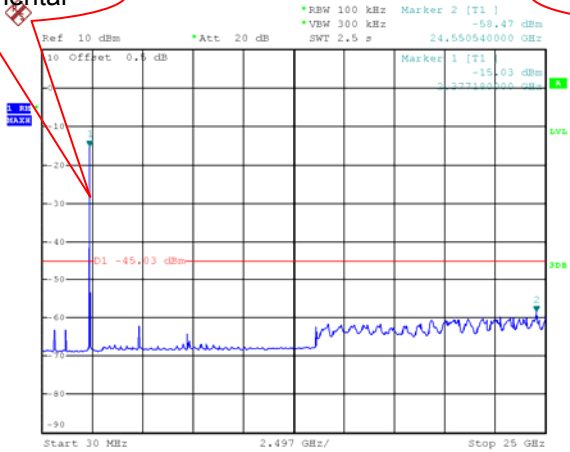


Date: 24.MAY.2023 11:12:27

Above 30MHz

Mode: TX 11b channel 1

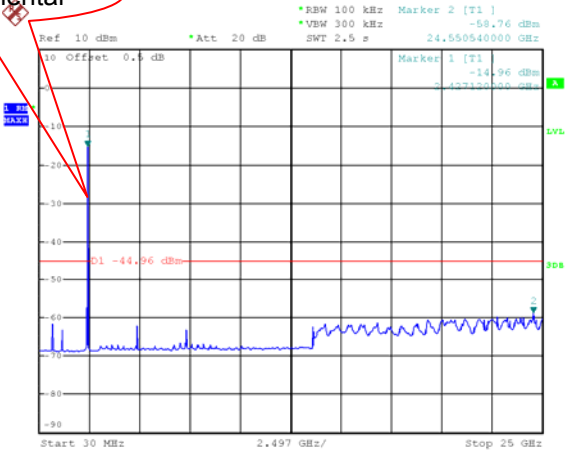
Fundamental



Date: 24.MAY.2023 12:01:43

Mode: TX 11b channel 6

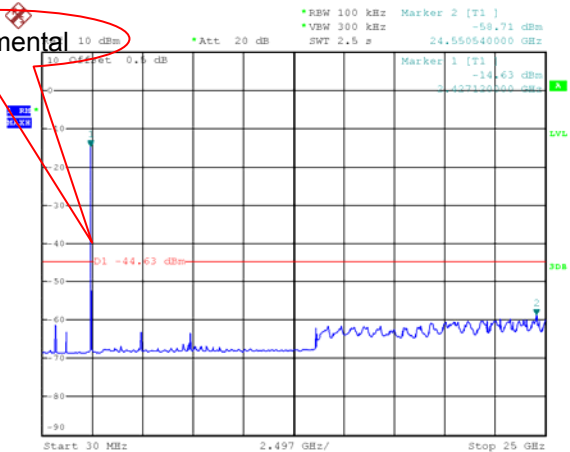
Fundamental



Date: 24.MAY.2023 12:02:35

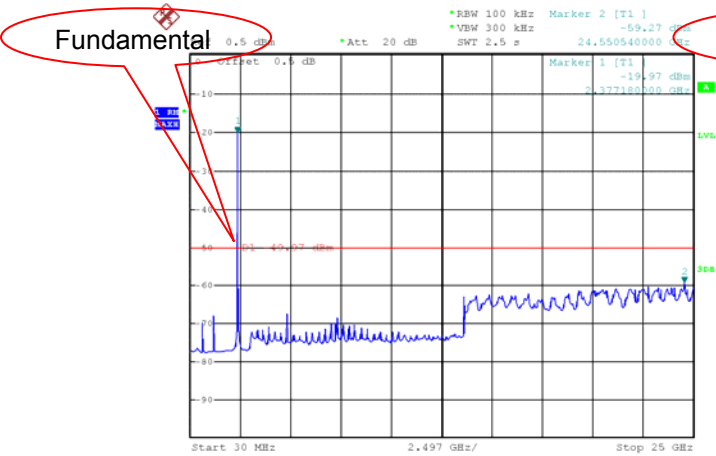
Mode: TX 11b channel 11

Fundamental



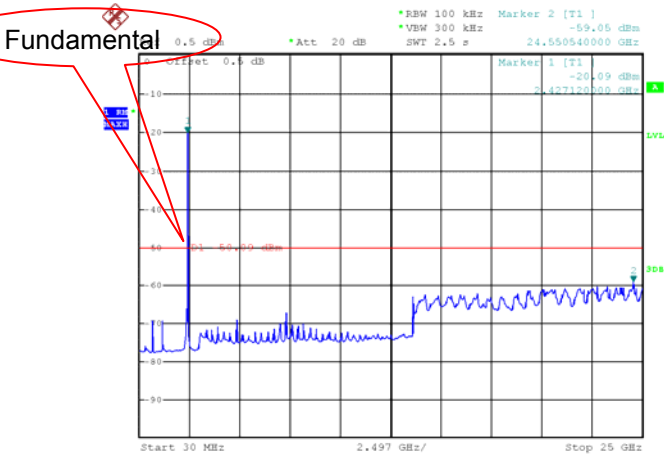
Date: 24.MAY.2023 12:04:10

Mode: TX 11g channel 1



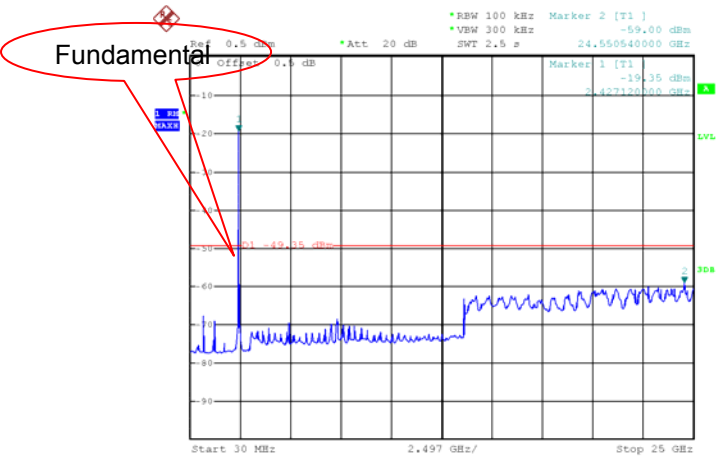
Date: 24.MAY.2023 11:59:09

Mode: TX 11g channel 6



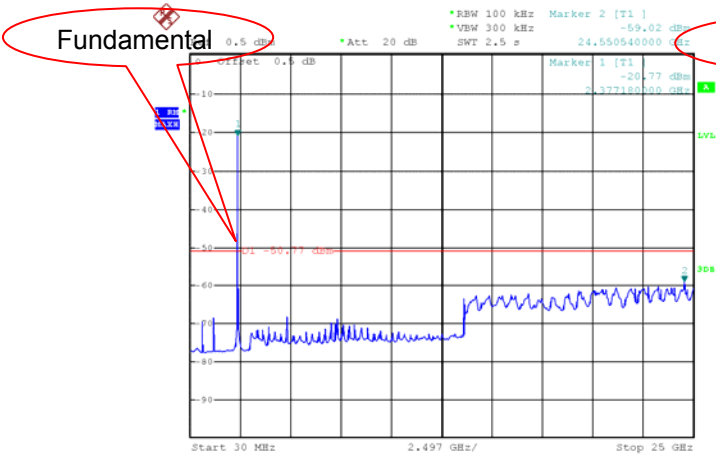
Date: 24.MAY.2023 11:58:18

Mode: TX 11g channel 11



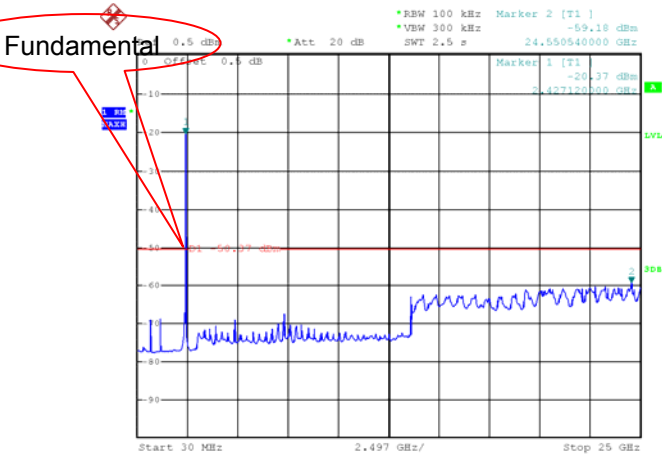
Date: 24.MAY.2023 11:57:12

Mode: TX 11n HT20 channel 1



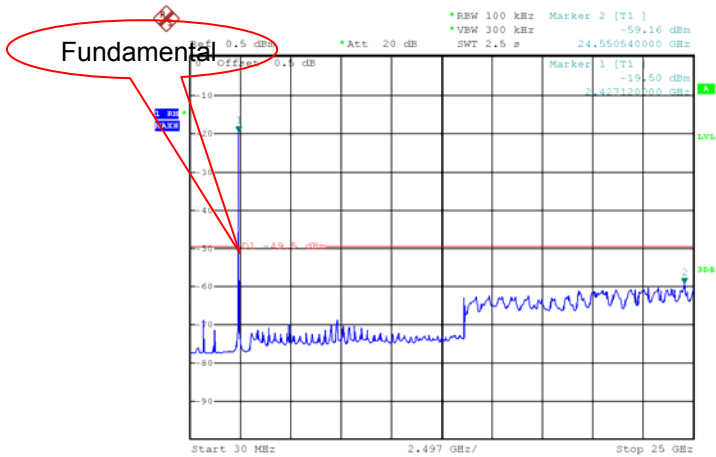
Date: 24.MAY.2023 11:51:03

Mode: TX 11 n HT20 channel 6



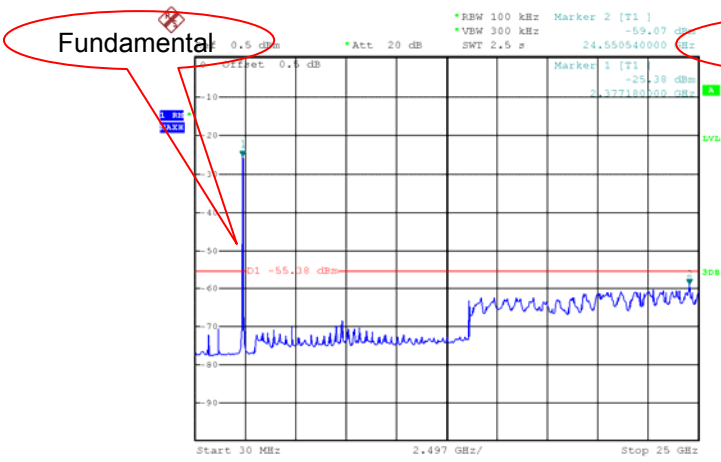
Date: 24.MAY.2023 11:52:29

Mode: TX 11 n HT20 channel 11



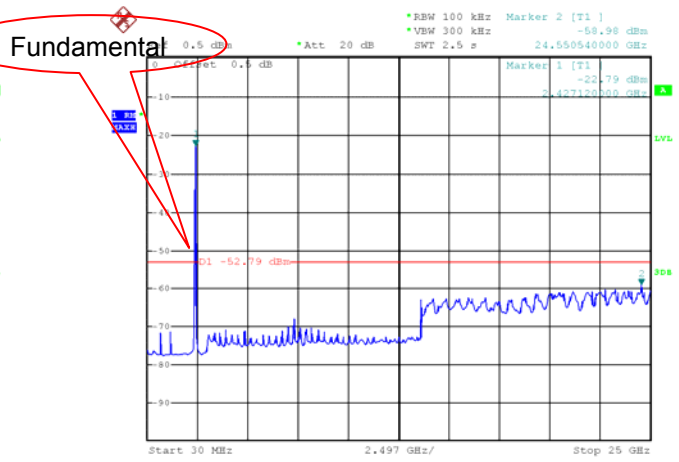
Date: 24.MAY.2023 11:53:48

Mode: TX 11n HT40 channel 3



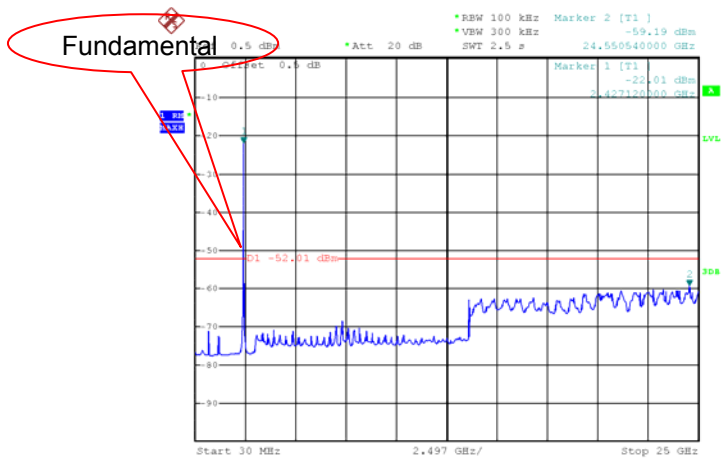
Date: 24.MAY.2023 11:50:02

Mode: TX 11 n HT40 channel 6



Date: 24.MAY.2023 11:49:08

Mode: TX 11 n HT40 channel 9



Date: 24.MAY.2023 11:47:50

11 Band Edge Measurement

Test Requirement: 47CFR FCC Part15 Subpart C §15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Regulation 15.247 (d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Mode: Transmitting

11.1 Test Produce

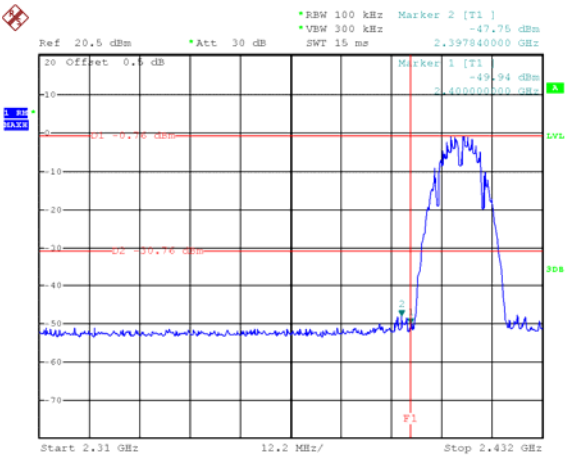
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

11.2 Test Result

Test result plots shown as follows:

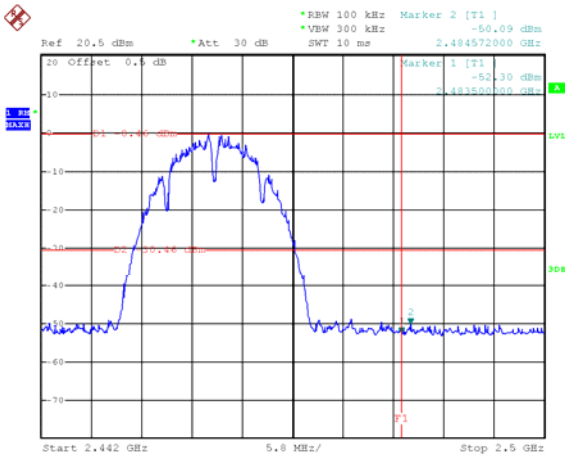
ANT 0:

TX 11b: Band edge-left side



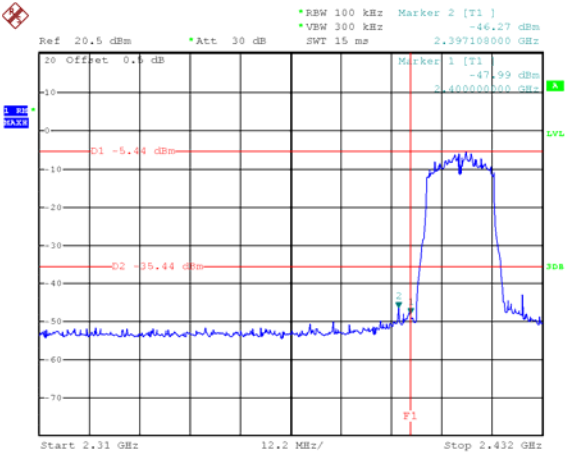
Date: 24.MAY.2023 16:28:22

TX 11b: Band edge-right side



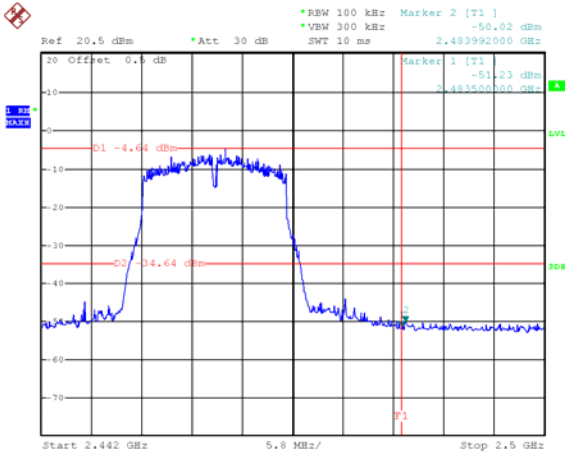
Date: 24.MAY.2023 16:38:39

TX 11g: Band edge-left side



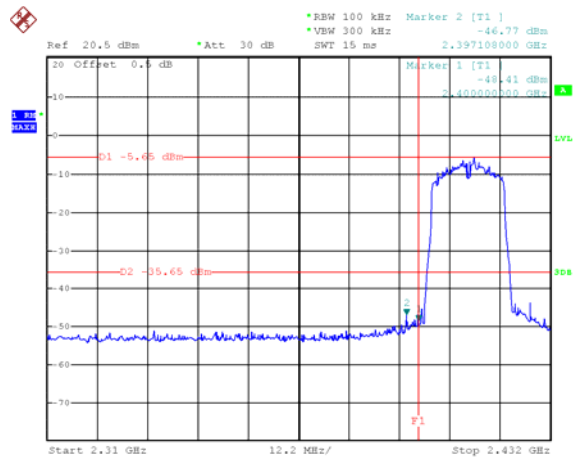
Date: 24.MAY.2023 16:29:34

TX 11g: Band edge-right side



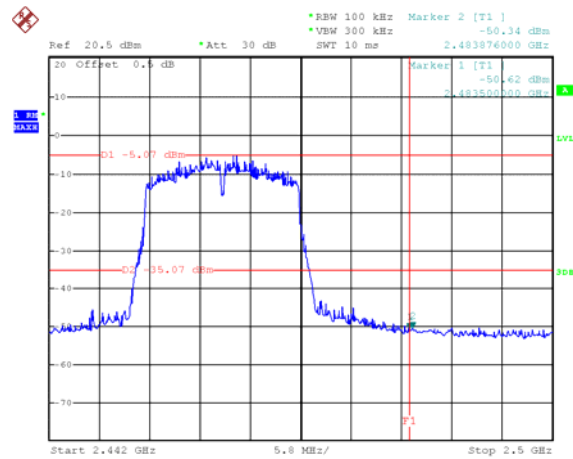
Date: 24.MAY.2023 16:37:33

TX 11n HT20: Band edge-left side



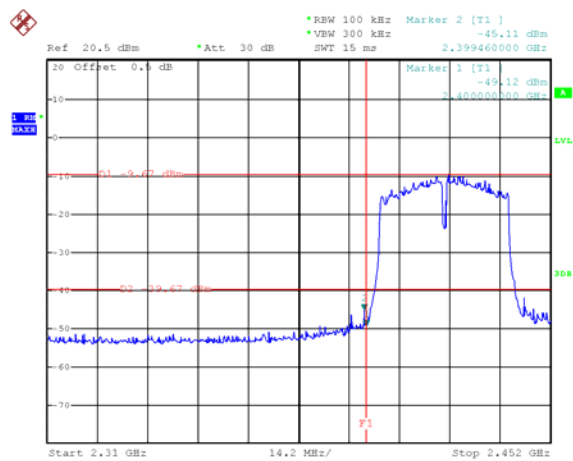
Date: 24.MAY.2023 16:30:47

TX 11n HT20: Band edge-right side



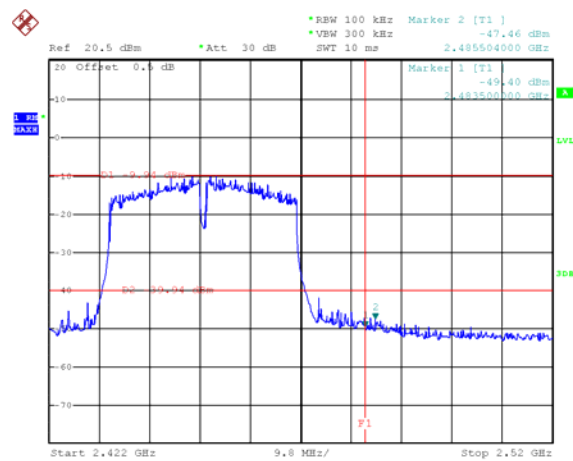
Date: 24.MAY.2023 16:35:34

TX 11n HT40: Band edge-left side



Date: 24.MAY.2023 16:32:15

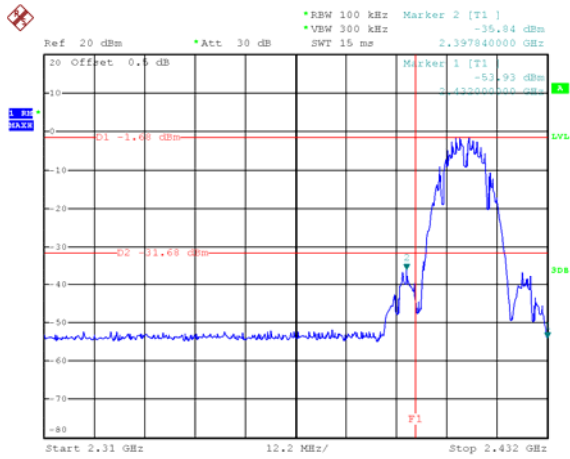
TX 11n HT40: Band edge-right side



Date: 24.MAY.2023 16:34:15

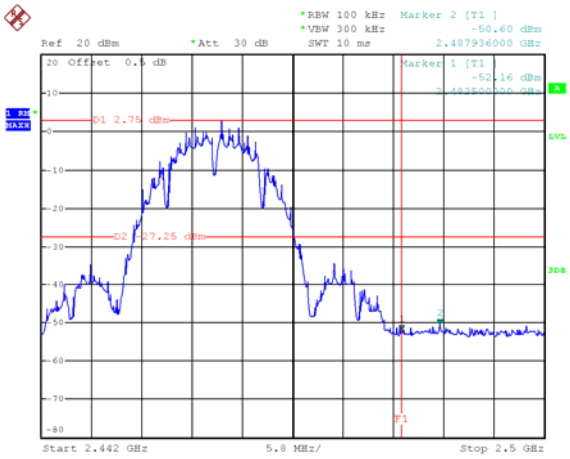
ANT 1:

TX 11b: Band edge-left side



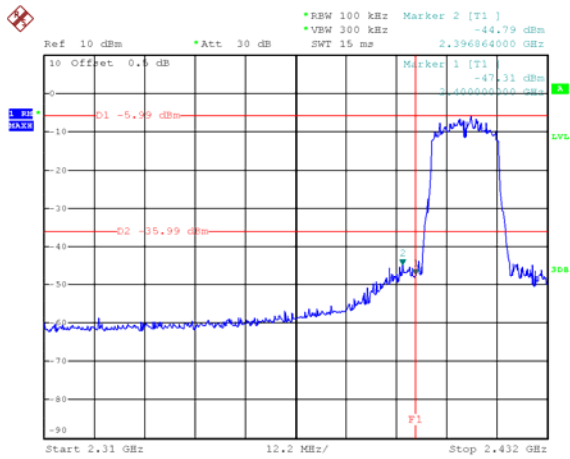
Date: 24.MAY.2023 10:52:41

TX 11b: Band edge-right side



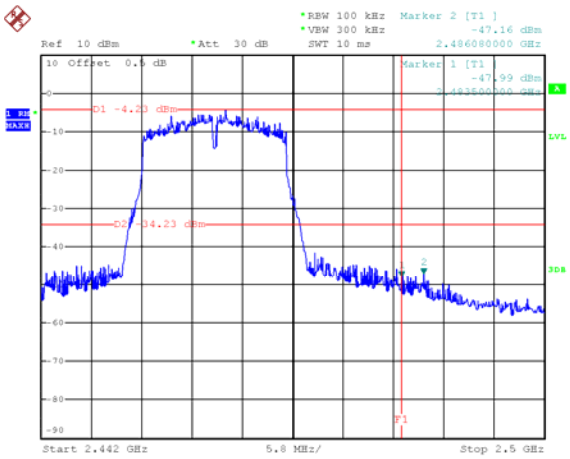
Date: 24.MAY.2023 11:05:45

TX 11g: Band edge-left side



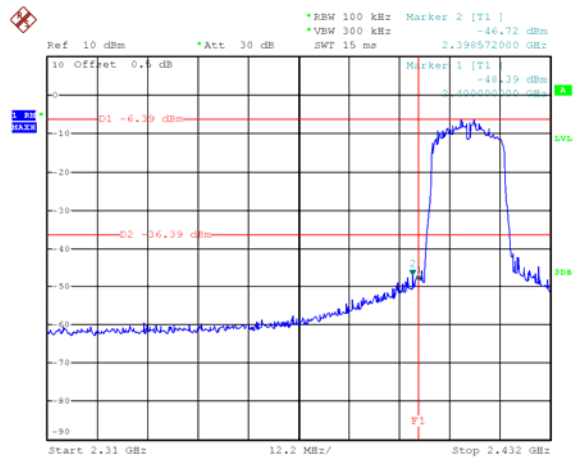
Date: 24.MAY.2023 10:54:35

TX 11g: Band edge-right side



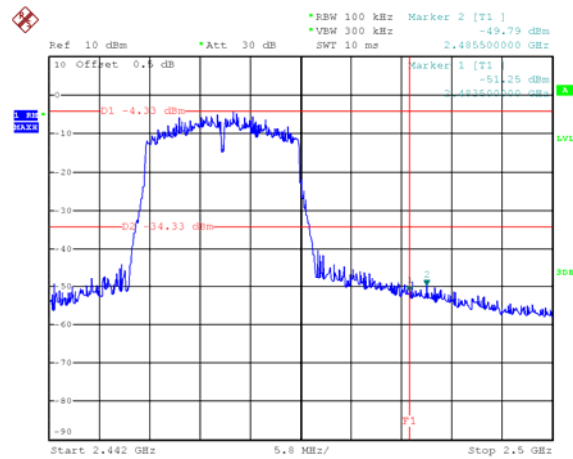
Date: 24.MAY.2023 11:04:00

TX 11n HT20: Band edge-left side



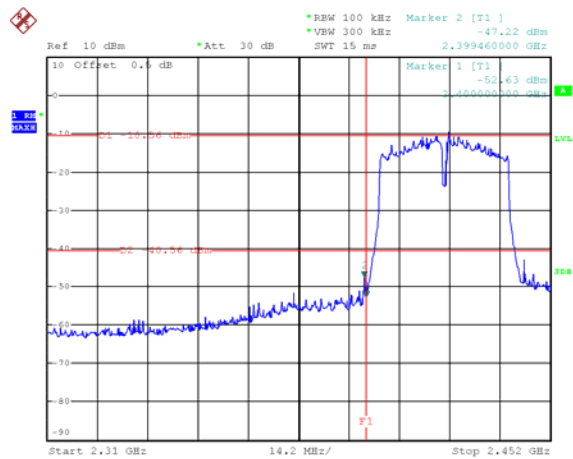
Date: 24.MAY.2023 10:56:18

TX 11n HT20: Band edge-right side



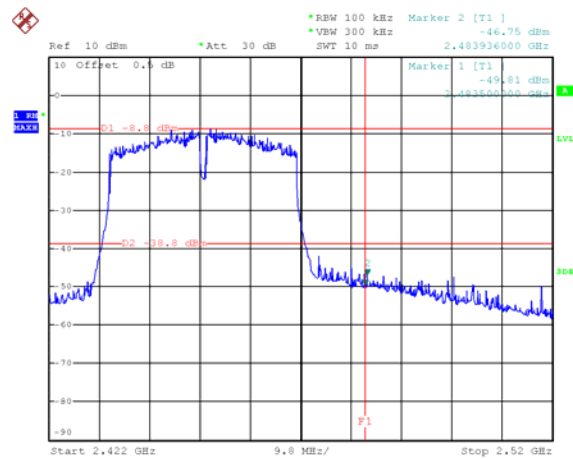
Date: 24.MAY.2023 11:02:39

TX 11n HT40: Band edge-left side



Date: 24.MAY.2023 10:57:30

TX 11n HT40: Band edge-right side



Date: 24.MAY.2023 11:01:03

12 6 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: 47CFR FCC Part15 Subpart C §15.247
 Test Method: ANSI C63.10:2013
 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
 Test Limit: §15.247(a)(2)
 Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
 Test Mode: Transmitting

12.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. 6dB Bandwidth Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz
 99% Bandwidth Set the spectrum analyzer: 1~5% of the OBW, VBW = 3 times the RBW

12.2 Test Result:

ANT 0 :

Operation mode	Test Channel	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
TX 11b	Channel 1	9.060	14.220
	Channel 6	9.060	14.160
	Channel 11	9.120	14.160
TX 11g	Channel 1	15.120	16.740
	Channel 6	15.120	16.740
	Channel 11	15.120	16.740
TX 11n HT20	Channel 1	15.720	17.640
	Channel 6	15.420	17.640
	Channel 11	15.420	17.640
TX 11n HT40	Channel 3	35.760	36.480
	Channel 6	35.160	36.360
	Channel 9	35.160	36.240

ANT 1 :

Operation mode	Test Channel	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
TX 11b	Channel 1	9.060	14.700
	Channel 6	9.120	14.640
	Channel 11	9.120	14.640
TX 11g	Channel 1	15.360	16.860
	Channel 6	15.120	16.740
	Channel 11	15.120	16.800
TX 11n HT20	Channel 1	15.420	17.640
	Channel 6	15.420	17.640
	Channel 11	15.420	17.640
TX 11n HT40	Channel 3	35.280	36.000
	Channel 6	35.040	35.880
	Channel 9	35.160	36.120

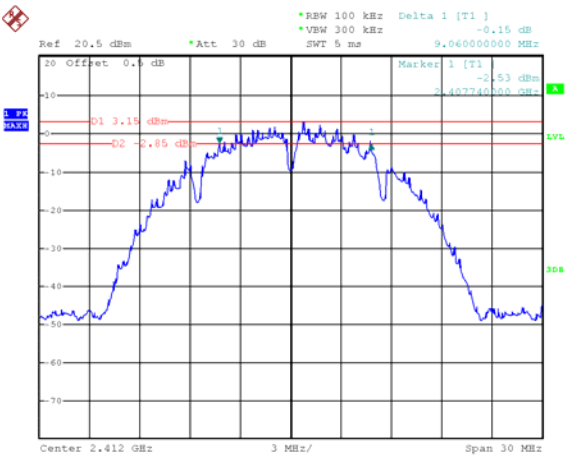
Test result plot:

Ant 0:

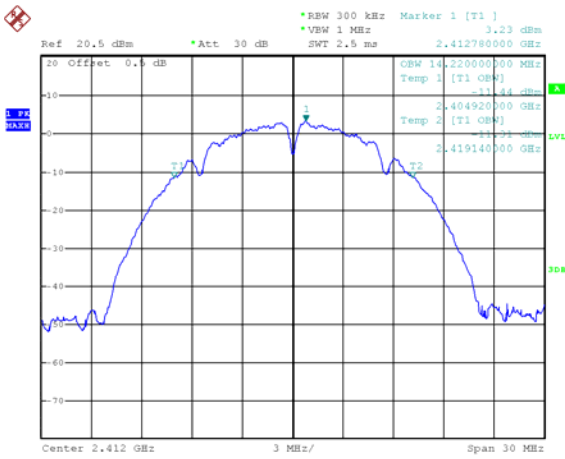
6 dB Bandwidth

99% Bandwidth

Mode: TX 11b channel 1

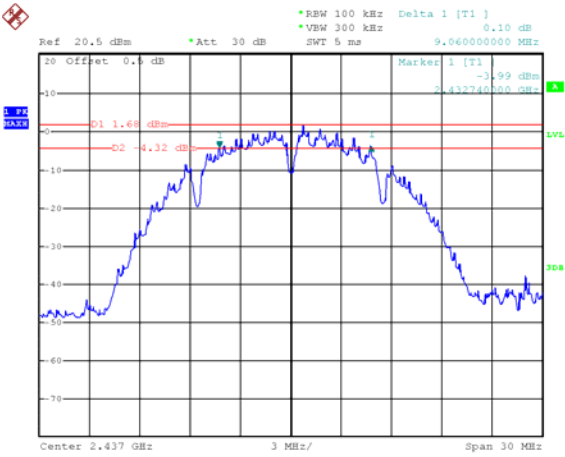


Date: 23.MAY.2023 20:07:43

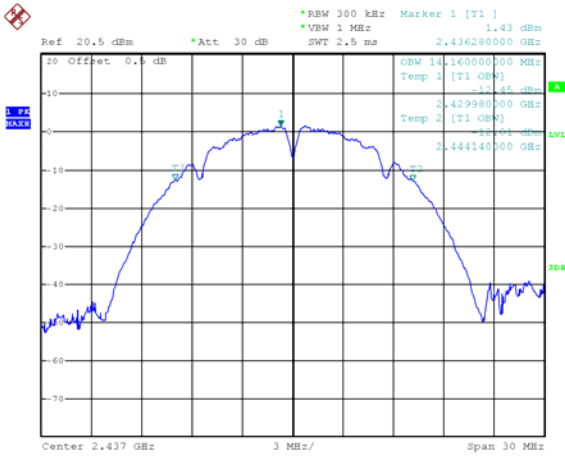


Date: 23.MAY.2023 20:29:57

Mode: TX 11b channel 6



Date: 23.MAY.2023 20:06:54

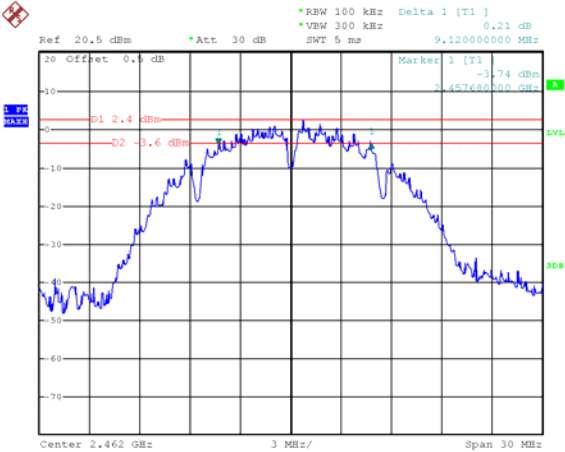


Date: 23.MAY.2023 20:29:26

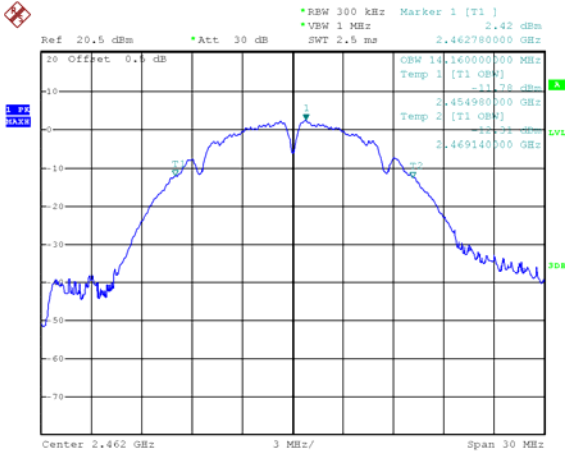
6 dB Bandwidth

99% Bandwidth

Mode: TX 11b channel 11

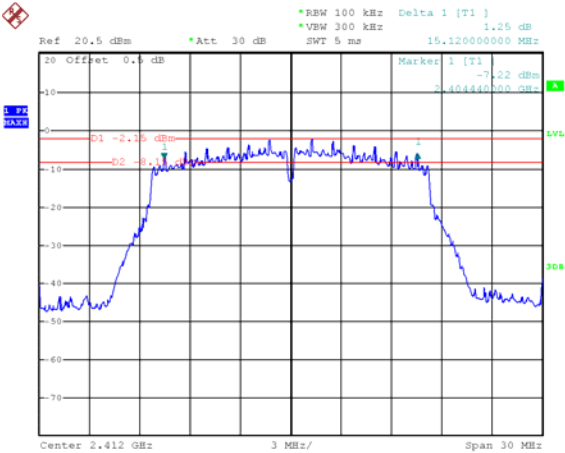


Date: 23.MAY.2023 20:08:45

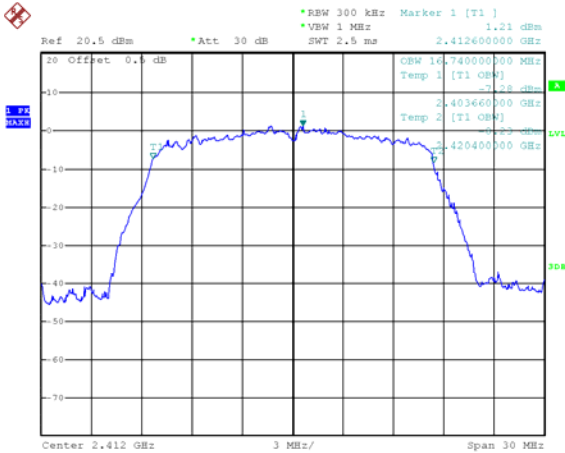


Date: 23.MAY.2023 20:28:55

Mode: TX 11g channel 1



Date: 23.MAY.2023 20:12:26

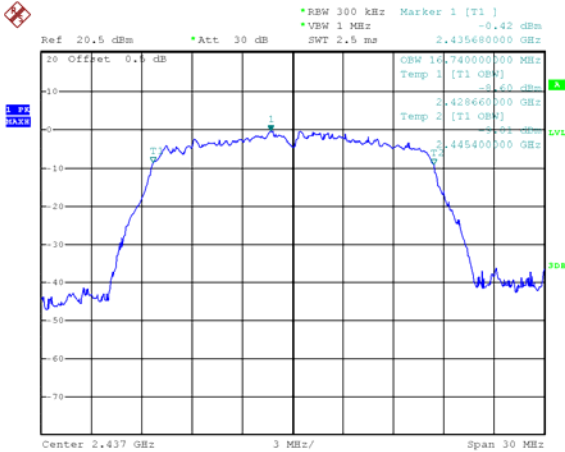
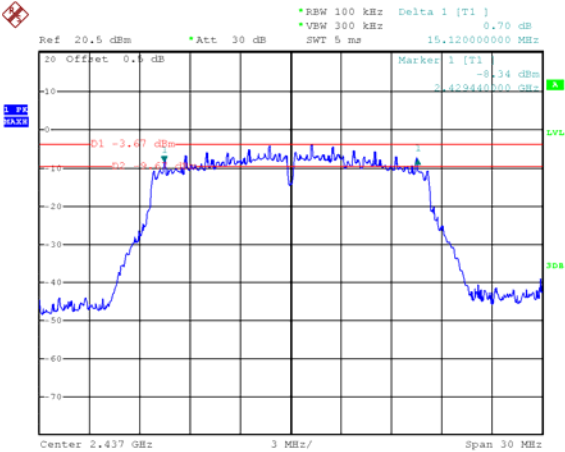


Date: 23.MAY.2023 20:27:03

6 dB Bandwidth

99% Bandwidth

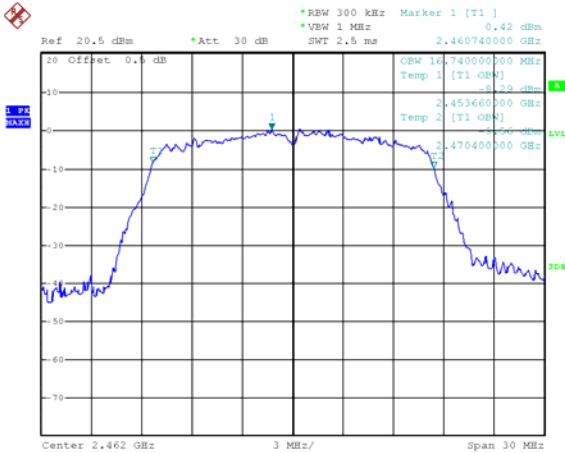
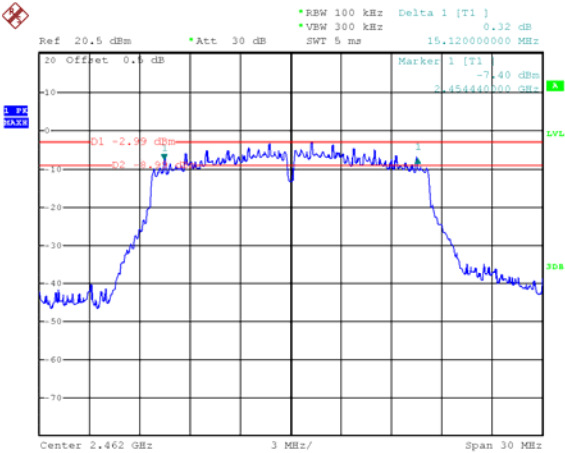
Mode: TX 11g channel 6



Date: 23.MAY.2023 20:11:11

Date: 23.MAY.2023 20:27:43

Mode: TX 11g channel 11



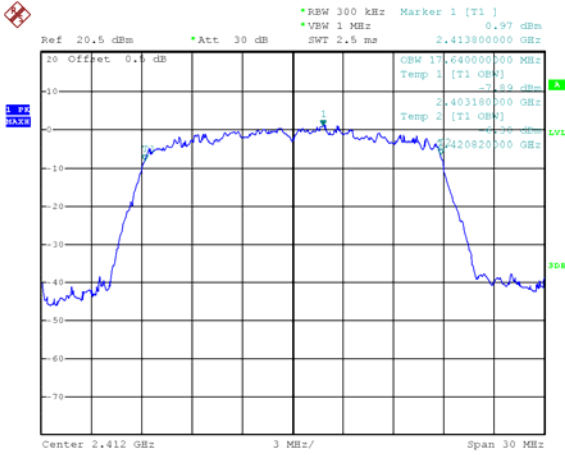
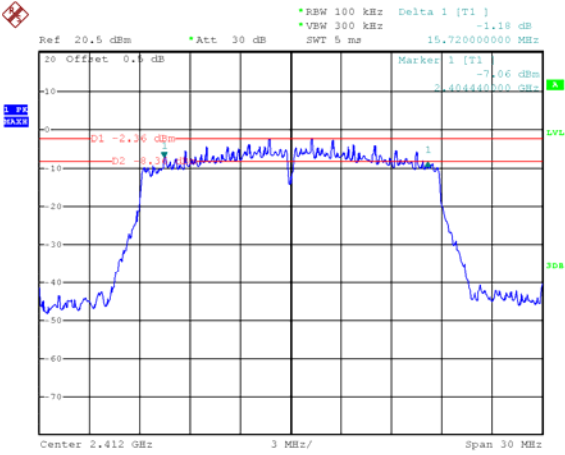
Date: 23.MAY.2023 20:10:10

Date: 23.MAY.2023 20:28:16

6 dB Bandwidth

99% Bandwidth

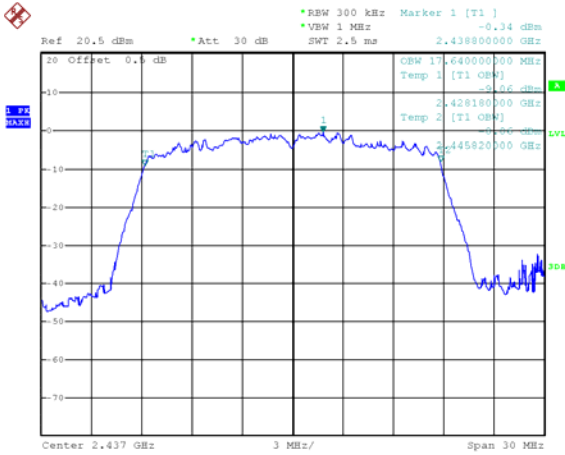
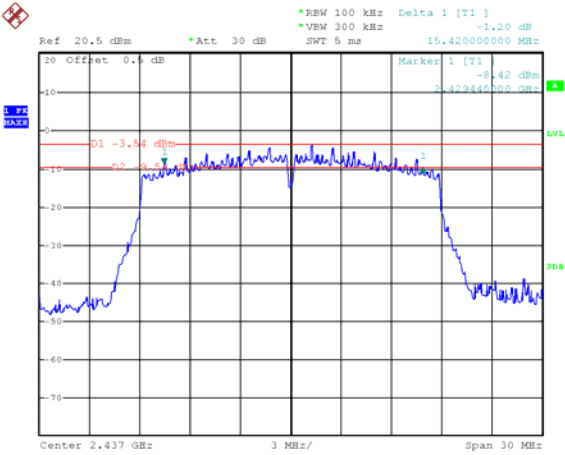
Mode: TX 11n HT20 channel 1



Date: 23.MAY.2023 20:13:37

Date: 23.MAY.2023 20:26:18

Mode: TX 11n HT20 channel 6



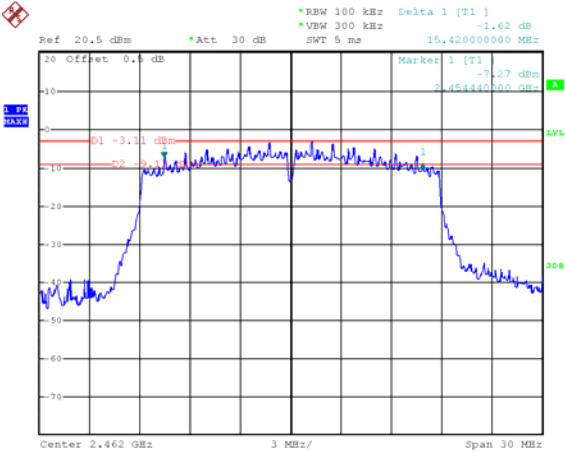
Date: 23.MAY.2023 20:14:43

Date: 23.MAY.2023 20:25:43

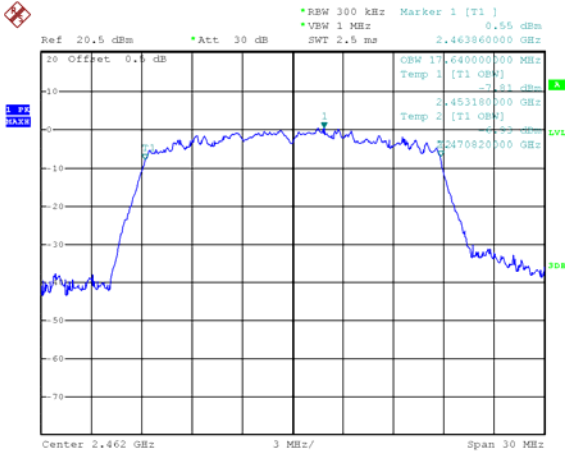
6 dB Bandwidth

99% Bandwidth

Mode: TX 11n HT20 channel 11

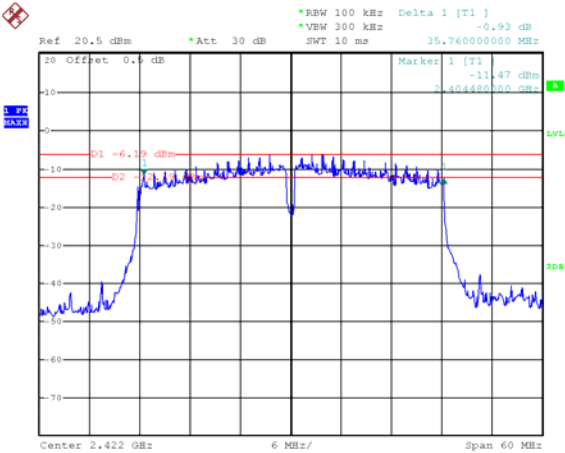


Date: 23.MAY.2023 20:15:30

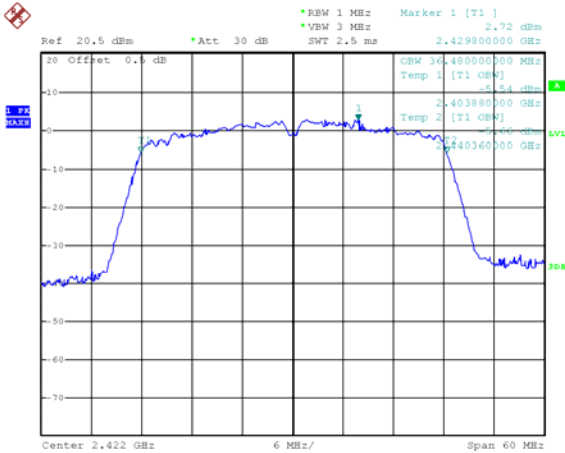


Date: 23.MAY.2023 20:25:03

Mode: TX 11n HT40 channel 3



Date: 23.MAY.2023 20:20:45

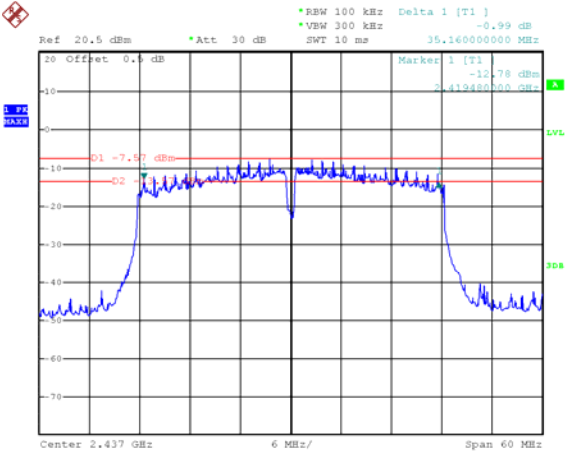


Date: 23.MAY.2023 20:21:37

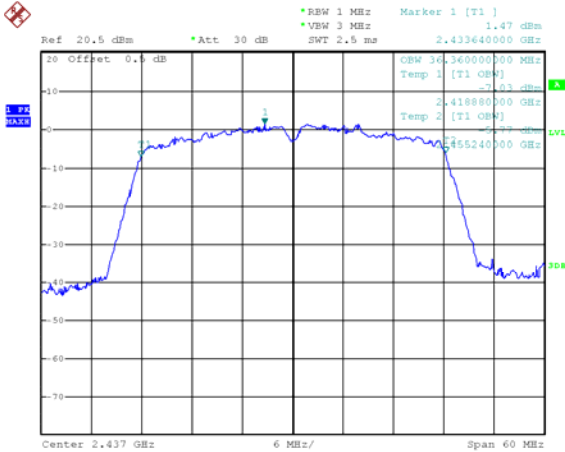
6 dB Bandwidth

99% Bandwidth

Mode: TX 11n HT40 channel 6

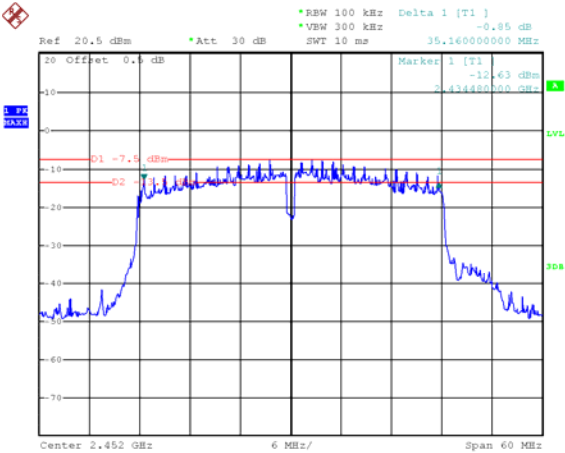


Date: 23.MAY.2023 20:19:38

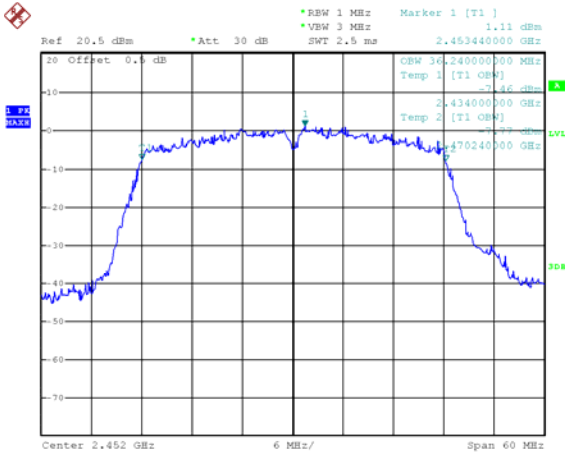


Date: 23.MAY.2023 20:22:27

Mode: TX 11n HT40 channel 9



Date: 23.MAY.2023 20:18:18



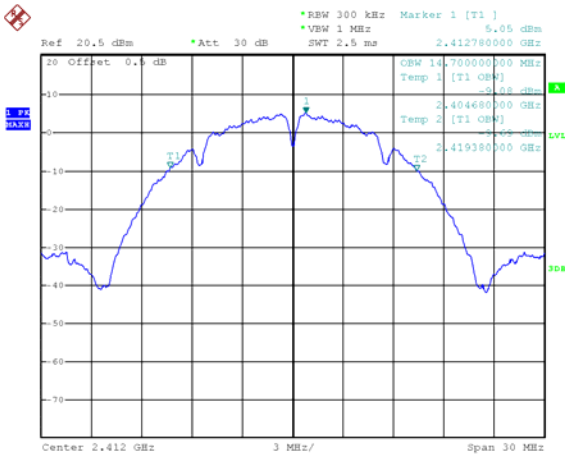
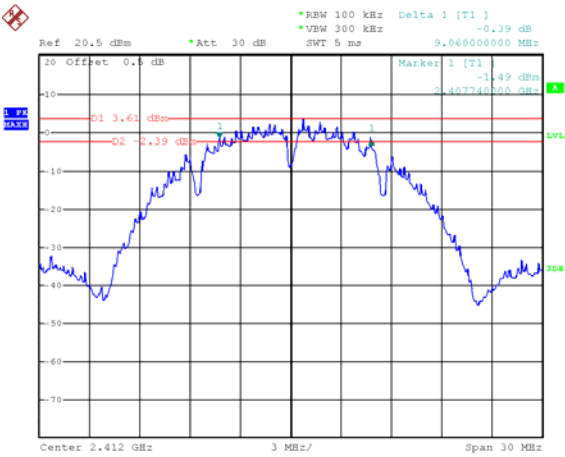
Date: 23.MAY.2023 20:23:54

Ant 1:

6 dB Bandwidth

99% Bandwidth

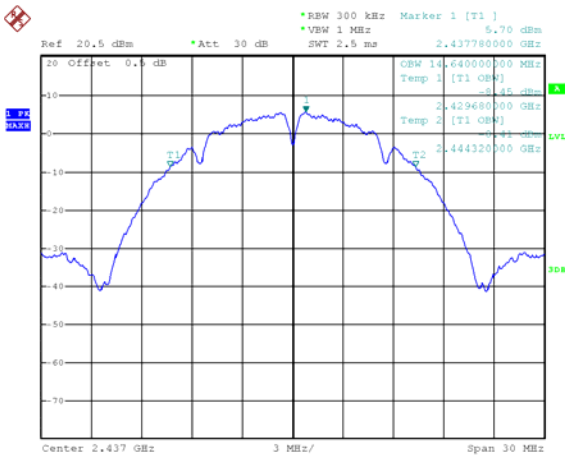
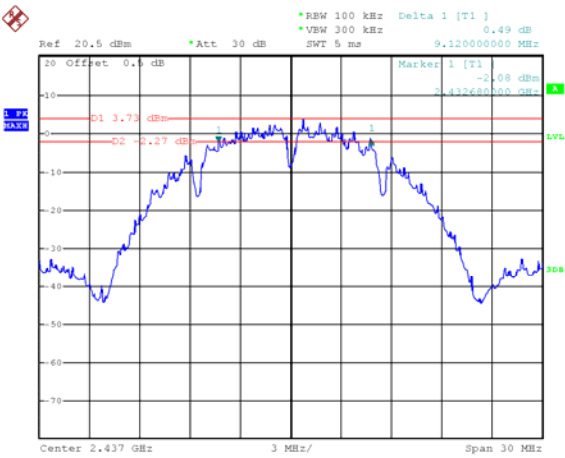
Mode: TX 11b channel 1



Date: 24.MAY.2023 09:56:50

Date: 23.MAY.2023 21:01:20

Mode: TX 11b channel 6



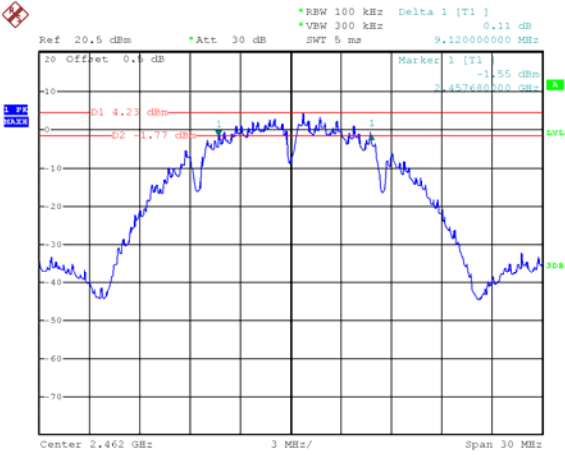
Date: 24.MAY.2023 10:00:05

Date: 23.MAY.2023 21:00:50

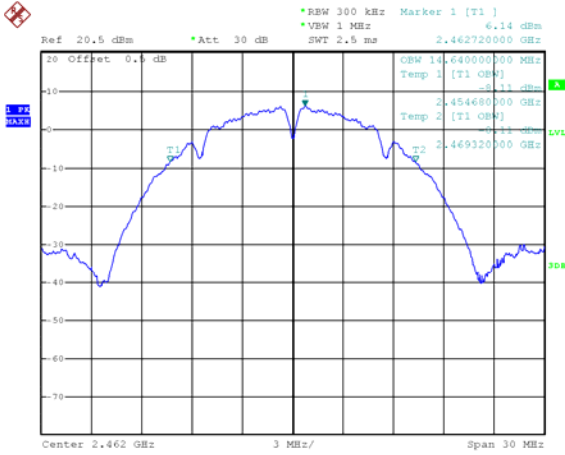
6 dB Bandwidth

99% Bandwidth

Mode: TX 11b channel 11

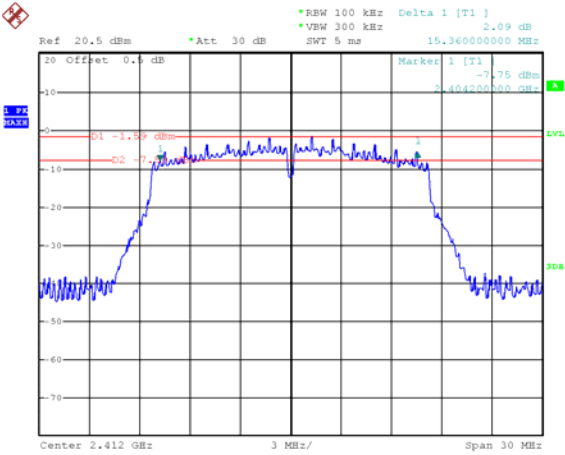


Date: 24.MAY.2023 10:02:30

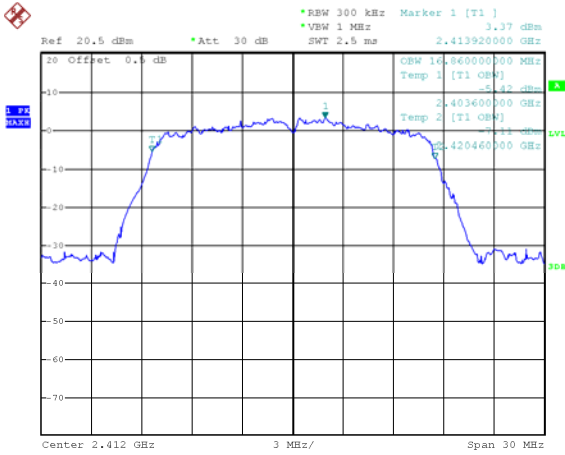


Date: 23.MAY.2023 21:00:18

Mode: TX 11g channel 1



Date: 24.MAY.2023 10:07:49

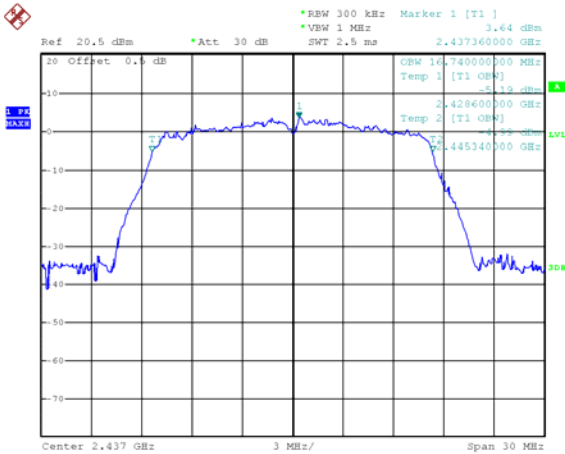
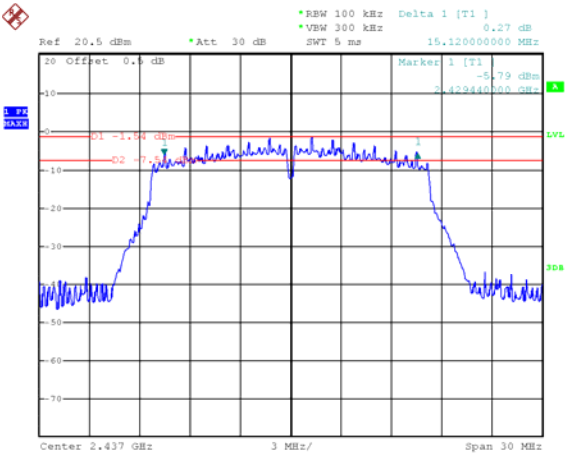


Date: 23.MAY.2023 21:02:47

6 dB Bandwidth

99% Bandwidth

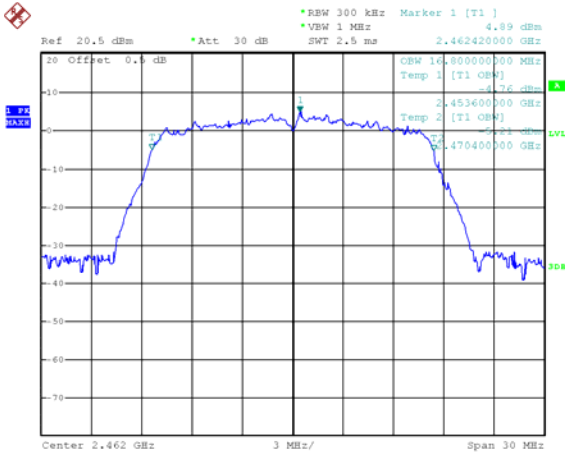
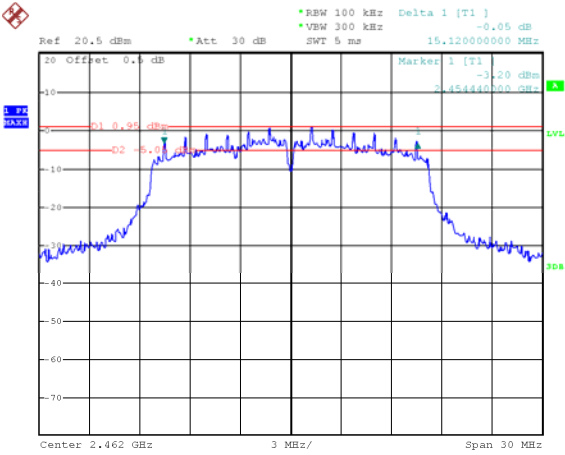
Mode: TX 11g channel 6



Date: 24.MAY.2023 10:06:29

Date: 23.MAY.2023 21:03:37

Mode: TX 11g channel 11



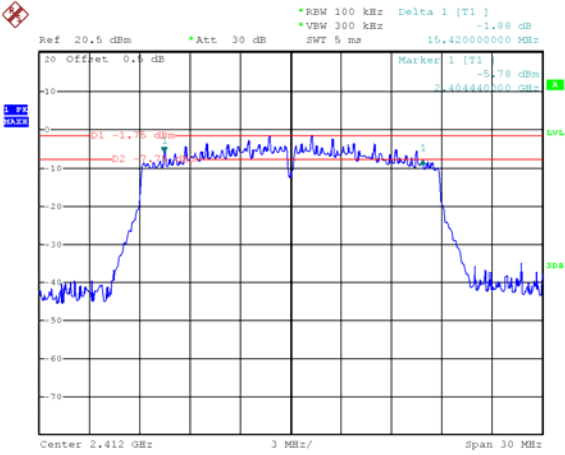
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Date: 23.MAY.2023 21:04:14

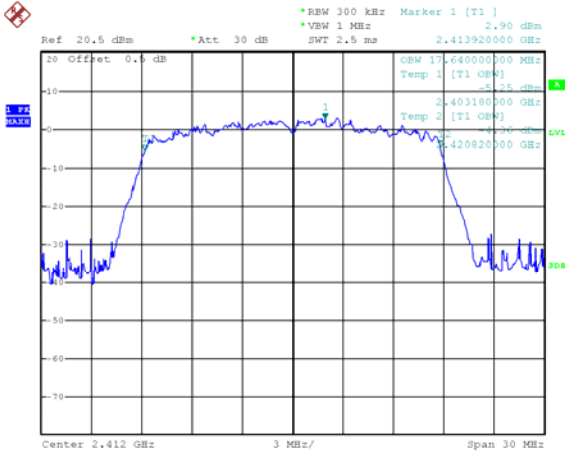
6 dB Bandwidth

99% Bandwidth

Mode: TX 11n HT20 channel 1

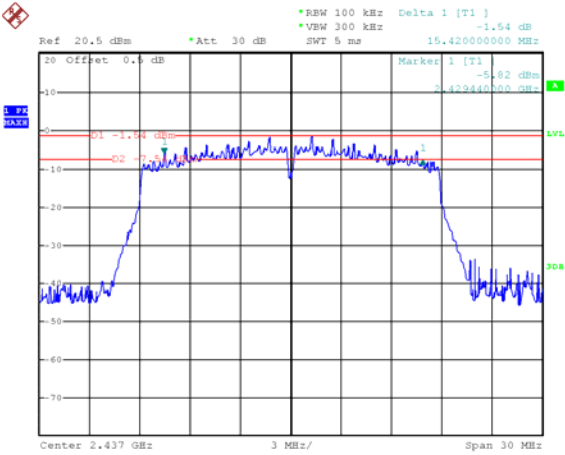


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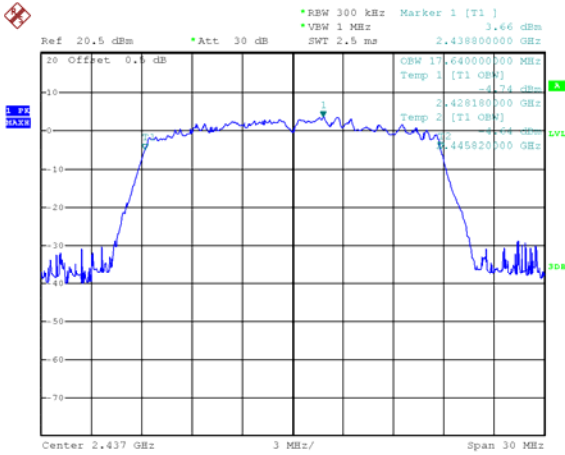


Date: 23.MAY.2023 21:06:26

Mode: TX 11n HT20 channel 6



Date: 24.MAY.2023 10:11:07

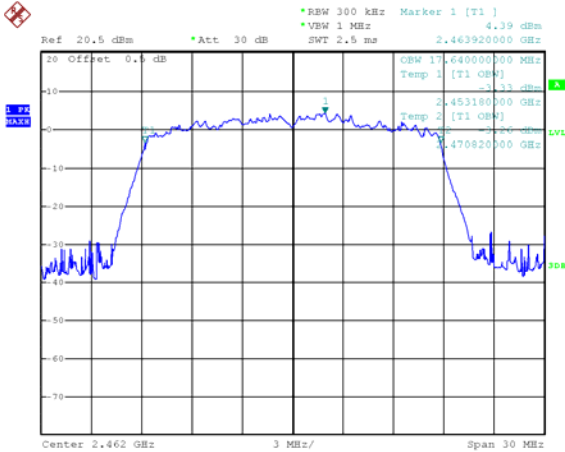
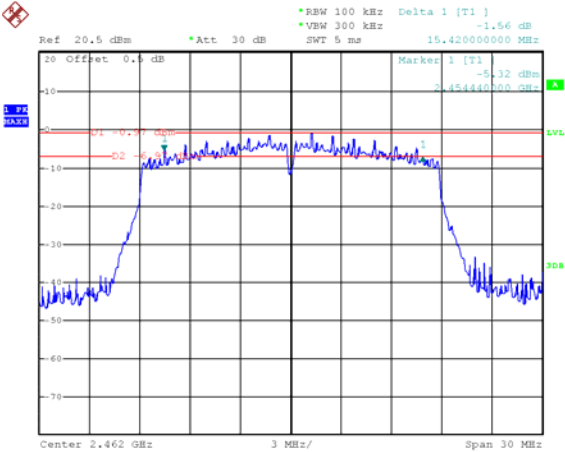


Date: 23.MAY.2023 21:05:47

6 dB Bandwidth

99% Bandwidth

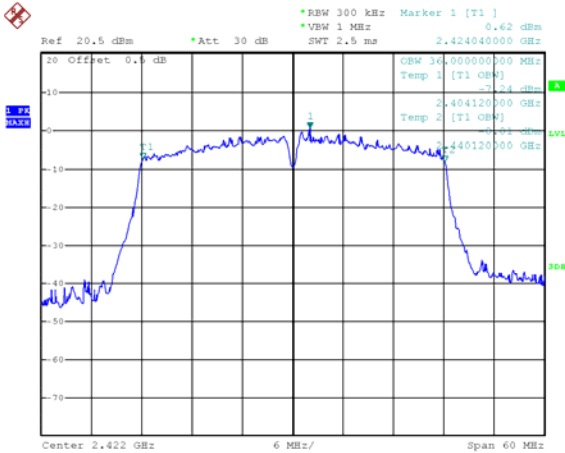
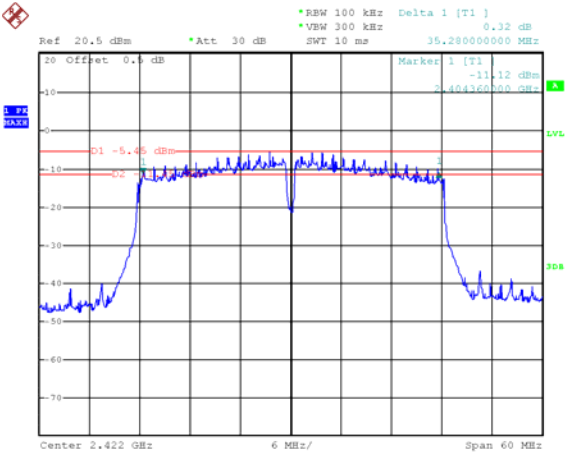
Mode: TX 11n HT20 channel 11



Date: 24.MAY.2023 10:12:33

Date: 23.MAY.2023 21:05:07

Mode: TX 11n HT40 channel 3



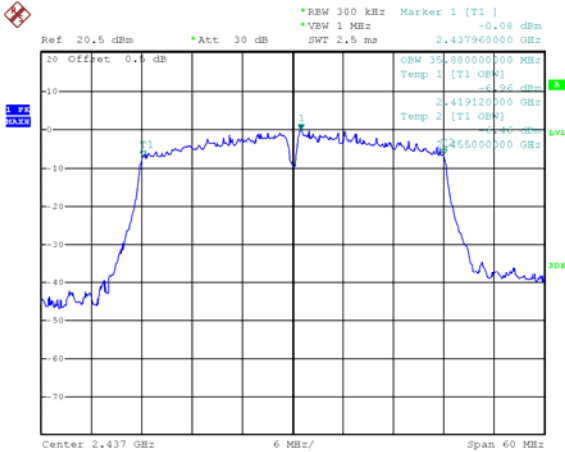
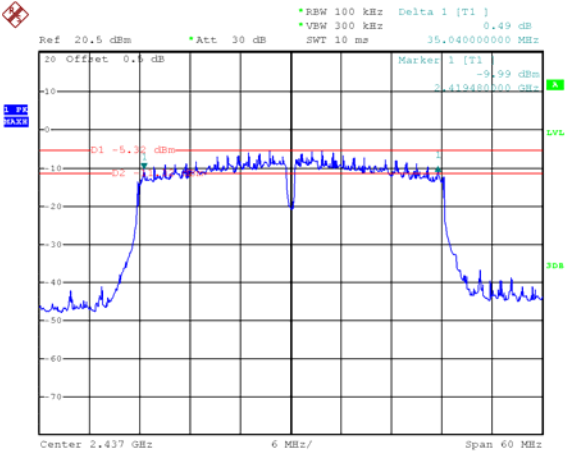
Date: 24.MAY.2023 10:18:40

Date: 23.MAY.2023 21:07:09

6 dB Bandwidth

99% Bandwidth

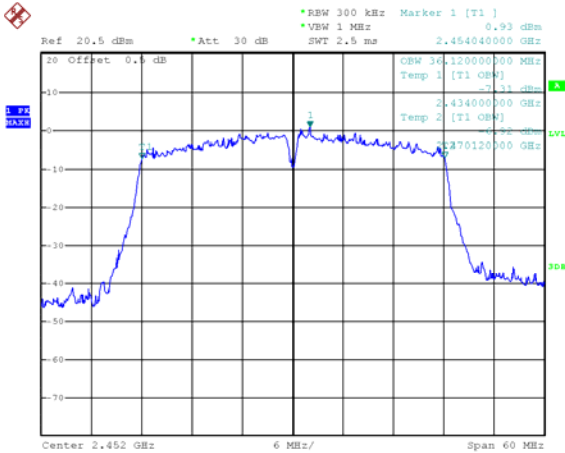
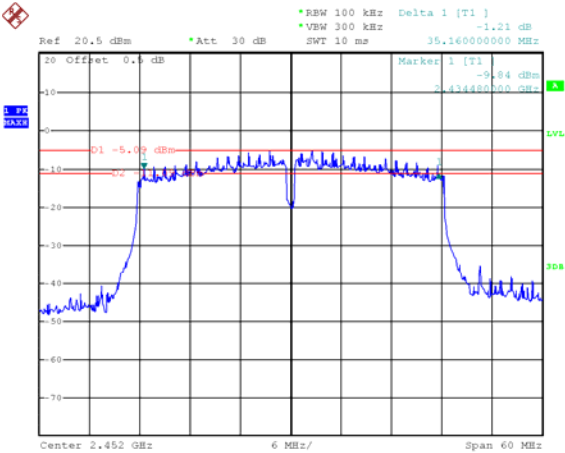
Mode: TX 11n HT40 channel 6



Date: 24.MAY.2023 10:16:03

Date: 23.MAY.2023 21:07:47

Mode: TX 11n HT40 channel 9



Date: 24.MAY.2023 10:14:48

Date: 23.MAY.2023 21:08:27

13 Maximum Peak conducted Output Power

Test Requirement:	47CFR FCC Part15 Subpart C §15.247
Test Method:	ANSI C63.10:2013 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Test Limit:	§15.247(b) The maximum peak conducted output power of the intentional radiator shall not exceed 1W.
Test Mode:	Transmitting

13.1 Test Procedure:

According to KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Section 8.3.1.1 RBW ≥ DTS bandwidth

Subclause 11.9.1.1 of ANSI C63.10 is applicable.

Section 8.3.1.2 Integrated band power method

For measuring the output power of a device transmitting a wide-band noise-like signal where the peak power amplitude is a statistical parameter, the preferred methodology is to use an integrated average power measurement, as described in 8.3.2. The peak integrated band power method of 11.9.1 in ANSI C63.10 is not applicable.

Subclause 11.9.2 of ANSI C63.10 is applicable.

13.2 Test Result:

ANT 0:

Operation mode	Channel Frequency (MHz)	Measurements (dBm)	Duty Cycle Factor (dB)	Conducted Output Power (dBm)	Limit
TX 11b	Low-2412	11.41	0.13	11.54	1W/30dBm
	Middle-2437	10.10		10.23	1W/30dBm
	High-2462	10.81		10.94	1W/30dBm
TX 11g	Low-2412	11.31	1.12	12.43	1W/30dBm
	Middle-2437	10.07		11.19	1W/30dBm
	High-2462	10.78		11.90	1W/30dBm
TX 11n HT20	Low-2412	11.58	0.84	12.42	1W/30dBm
	Middle-2437	10.13		10.97	1W/30dBm
	High-2462	10.64		11.48	1W/30dBm
TX 11n HT40	Low-2422	10.42	1.63	12.05	1W/30dBm
	Middle-2437	9.19		10.82	1W/30dBm
	High-2452	9.18		10.81	1W/30dBm

ANT 1

Operation mode	Channel Frequency (MHz)	Measurements (dBm)	Duty Cycle Factor (dB)	Conducted Output Power (dBm)	Limit
TX 11b	Low-2412	13.43	0.10	13.53	1W/30dBm
	Middle-2437	13.96		14.06	1W/30dBm
	High-2462	14.69		14.79	1W/30dBm
TX 11g	Low-2412	12.43	0.75	13.18	1W/30dBm
	Middle-2437	12.59		13.34	1W/30dBm
	High-2462	13.32		14.07	1W/30dBm
TX 11n HT20	Low-2412	12.62	2.06	14.68	1W/30dBm
	Middle-2437	10.82		12.88	1W/30dBm
	High-2462	11.52		13.58	1W/30dBm
TX 11n HT40	Low-2422	9.84	2.06	9.90	1W/30dBm
	Middle-2437	9.93		11.99	1W/30dBm
	High-2452	10.38		12.44	1W/30dBm

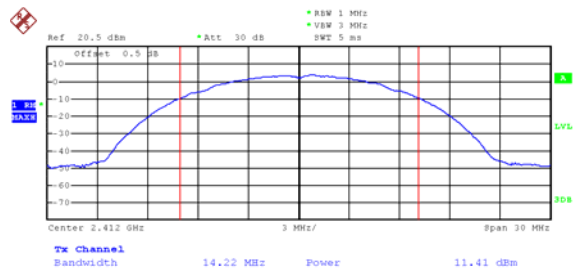
Total

Modulation	CH	Conducted Output Power (dBm)		
		ANT 0	ANT 1	Total
802.11n HT20	Low	12.42	14.68	16.71
	Middle	10.97	12.88	15.04
	High	11.48	13.58	15.67
802.11n HT40	Low	12.05	9.90	14.12
	Middle	10.82	11.99	14.45
	High	10.81	12.44	14.71

Test Plot:

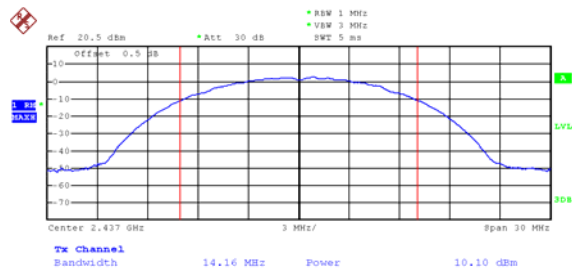
ANT 0:

Mode: TX 11b channel 1



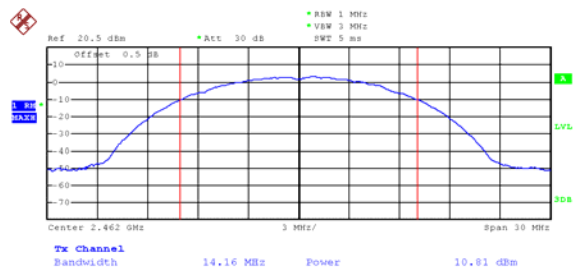
Date: 24.MAY.2023 16:05:54

Mode: TX 11b channel 6



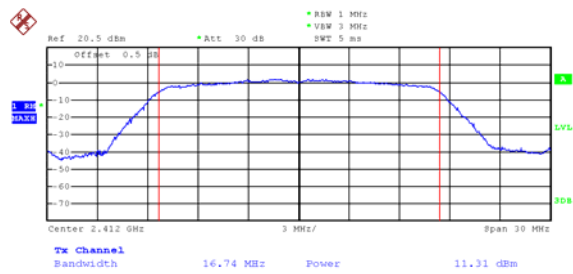
Date: 24.MAY.2023 14:56:42

Mode: TX 11b channel 11



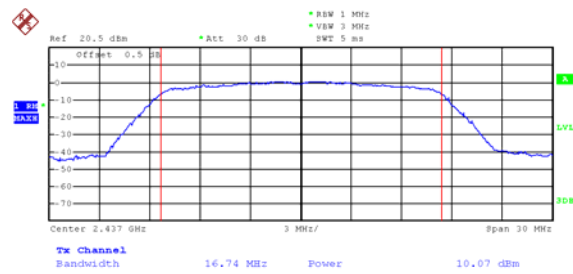
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Mode: TX 11g channel 1



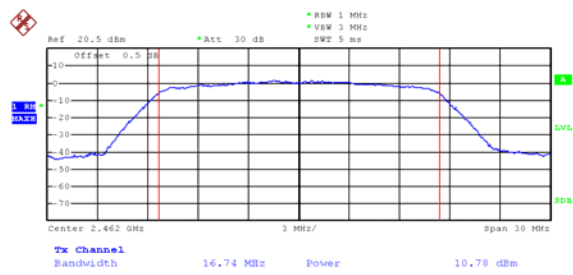
Date: 24.MAY.2023 16:10:39

Mode: TX 11g channel 6



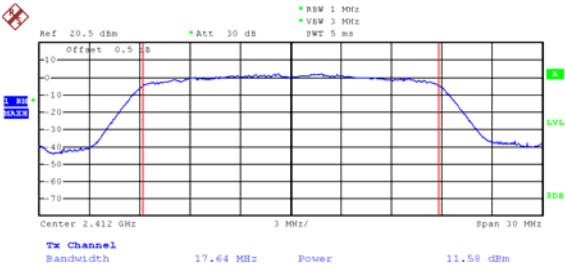
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Mode: TX 11g channel 11



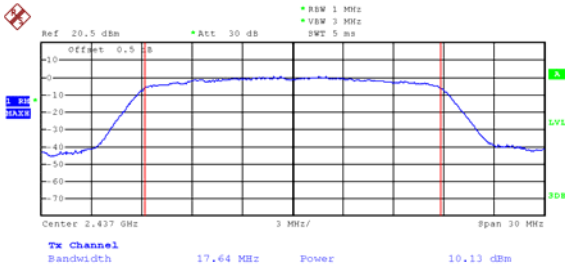
Date: 24.MAY.2023 16:09:29

Mode: TX 11n HT20 channel 1



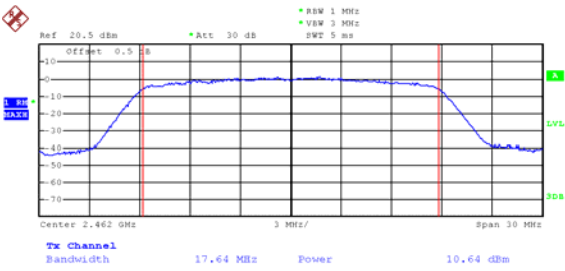
Date: 24.MAY.2023 16:11:38

Mode: TX 11n HT20 channel 6



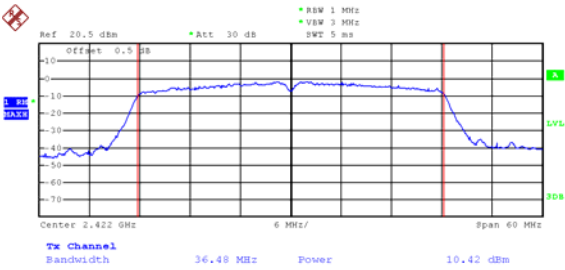
Date: 24.MAY.2023 16:12:21

Mode: TX 11n HT20 channel 11



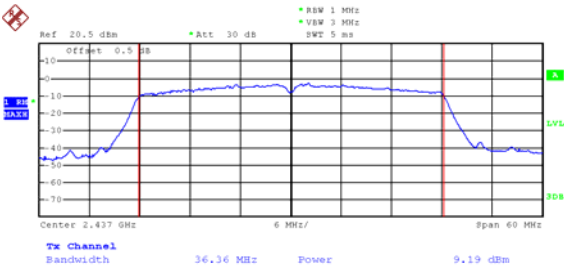
Date: 24.MAY.2023 16:12:52

Mode: TX 11n HT40 channel 3



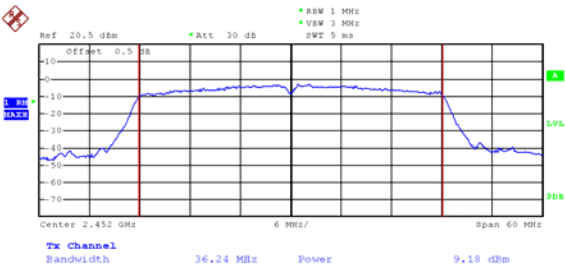
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Mode: TX 11n HT40 channel 6



Date: 24.MAY.2023 16:15:10

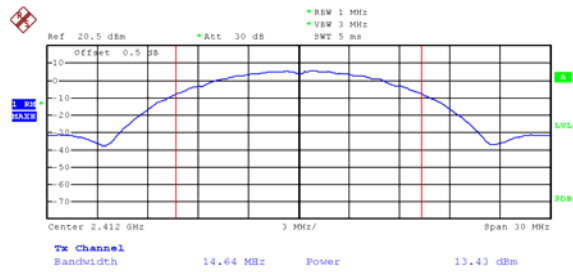
Mode: TX 11n HT40 channel 9



Date: 24.MAY.2023 16:14:01

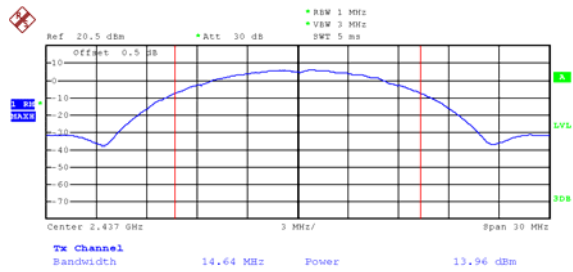
ANT 1:

Mode: TX 11b channel 1



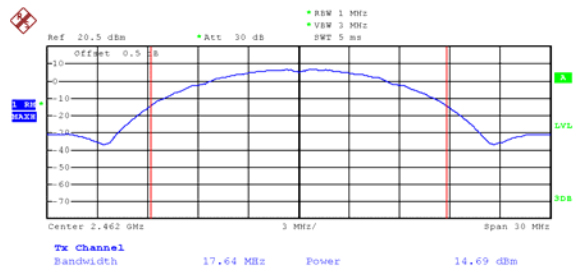
Date: 24.MAY.2023 14:31:24

Mode: TX 11b channel 6



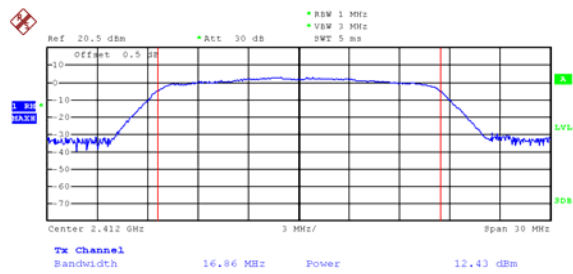
Date: 24.MAY.2023 14:30:53

Mode: TX 11b channel 11



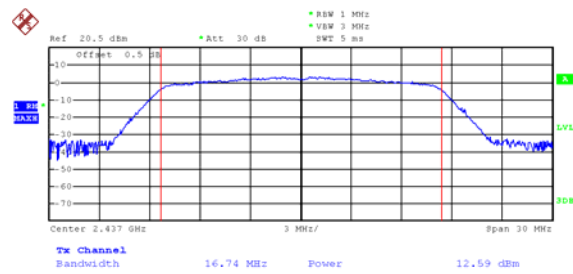
Date: 24.MAY.2023 14:36:38

Mode: TX 11g channel 1



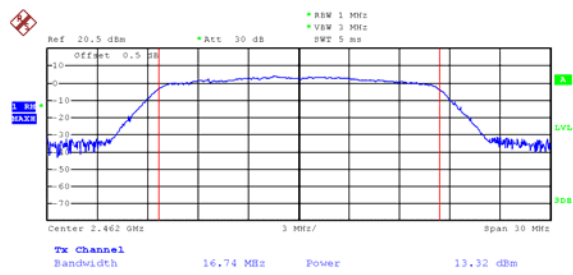
Date: 24.MAY.2023 14:27:54

Mode: TX 11g channel 6



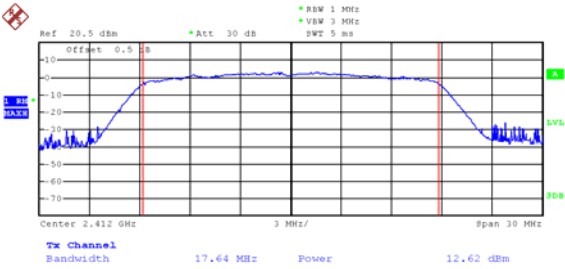
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Mode: TX 11g channel 11



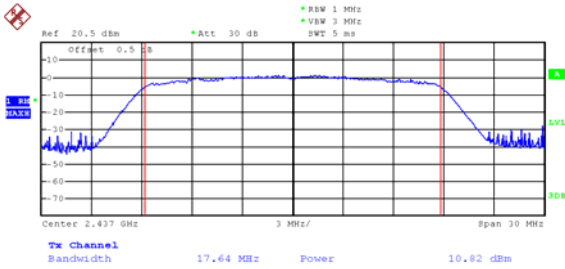
Date: 24.MAY.2023 14:29:10

Mode: TX 11n HT20 channel 1



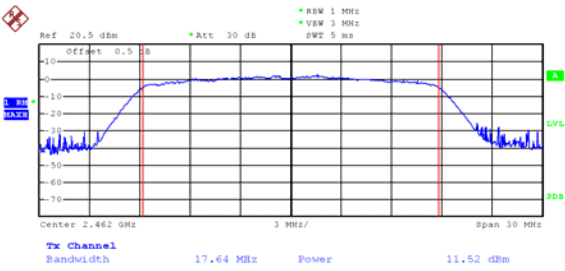
Date: 24.MAY.2023 14:20:58

Mode: TX 11n HT20 channel 6



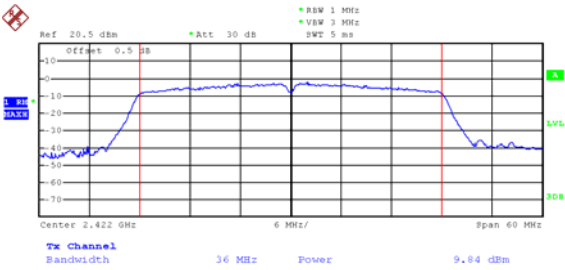
Date: 24.MAY.2023 12:24:57

Mode: TX 11n HT20 channel 11



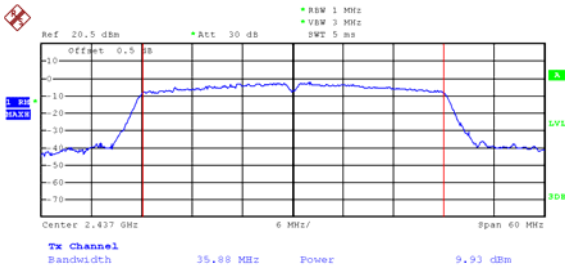
Date: 24.MAY.2023 12:24:21

Mode: TX 11n HT40 channel 3



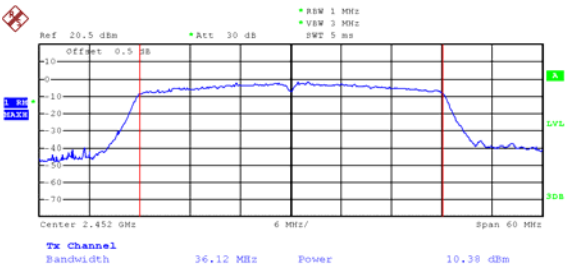
Date: 24.MAY.2023 12:20:27

Mode: TX 11n HT40 channel 6



Date: 24.MAY.2023 12:21:27

Mode: TX 11n HT40 channel 9



Date: 24.MAY.2023 12:22:20

14 Power Spectral density

Test Requirement:	47CFR FCC Part15 Subpart C §15.247
Test Method:	ANSI C63.10:2013 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Test Limit:	§15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Test Mode:	Transmitting

14.1 Test Procedure:

According to KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 8.4

Subclause 11.10 of ANSI C63.10 is applicable.

Choose the test procedure according to the product type

Peak PSD

Subclause 11.10.2 of ANSI C63.10 is applicable.

AVG PSD

Subclause 11.10.3/4/5/6/7/8 of ANSI C63.10 is applicable.

14.2 Test Result:

Ant 0:

Operation mode	Channel Frequency (MHz)	Measurements (dBm per 3kHz)	Duty Cycle Factor (dB)	Power Spectral density (dBm per 3kHz)	Limit
TX 11b	Low-2412	-19.65	0.13	-19.52	8dBm per 3kHz
	Middle-2437	-21.20		-21.07	8dBm per 3kHz
	High-2462	-20.61		-20.48	8dBm per 3kHz
TX 11g	Low-2412	-25.96	1.12	-24.84	8dBm per 3kHz
	Middle-2437	-27.52		-26.40	8dBm per 3kHz
	High-2462	-26.17		-25.05	8dBm per 3kHz
TX 11n HT20	Low-2412	-26.34	0.84	-25.50	8dBm per 3kHz
	Middle-2437	-27.96		-27.12	8dBm per 3kHz
	High-2462	-26.95		-26.11	8dBm per 3kHz
TX 11n HT40	Low-2422	-31.90	1.63	-30.27	8dBm per 3kHz
	Middle-2437	-33.04		-31.41	8dBm per 3kHz
	High-2452	-32.86		-31.23	8dBm per 3kHz

Ant 1:

Operation mode	Channel Frequency (MHz)	Measurements (dBm per 3kHz)	Duty Cycle Factor (dB)	Power Spectral density (dBm per 3kHz)	Limit
TX 11b	Low-2412	-17.96	0.10	-17.86	8dBm per 3kHz
	Middle-2437	-17.60		-17.50	8dBm per 3kHz
	High-2462	-16.99		-16.89	8dBm per 3kHz
TX 11g	Low-2412	-24.18	0.75	-23.43	8dBm per 3kHz
	Middle-2437	-23.03		-22.28	8dBm per 3kHz
	High-2462	-22.33		-21.58	8dBm per 3kHz
TX 11n HT20	Low-2412	-25.73	2.06	-23.67	8dBm per 3kHz
	Middle-2437	-23.52		-21.46	8dBm per 3kHz
	High-2462	-22.93		-20.87	8dBm per 3kHz
TX 11n HT40	Low-2422	-29.53	2.06	-27.47	8dBm per 3kHz
	Middle-2437	-28.82		-26.76	8dBm per 3kHz
	High-2452	-28.96		-26.90	8dBm per 3kHz

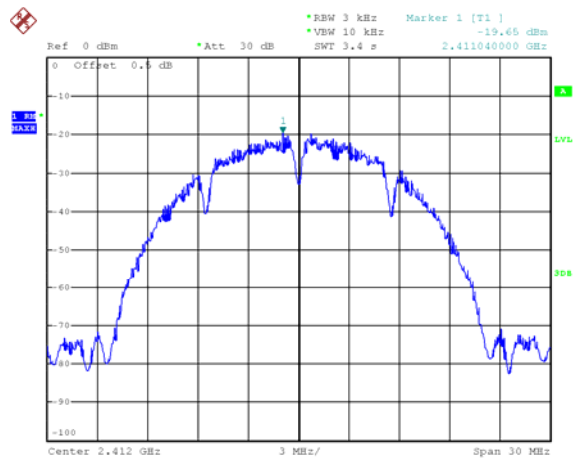
Total

Modulation	CH	Power Spectral density (dBm per 3kHz)		
		ANT 0	ANT 1	Total
TX 11n HT20	Low	-25.50	-23.67	-21.48
	Middle	-27.12	-21.46	-20.42
	High	-26.11	-20.87	-19.73
TX 11n HT40	Low	-30.27	-27.47	-25.64
	Middle	-31.41	-26.76	-25.48
	High	-31.23	-26.90	-25.54

Test Plot:

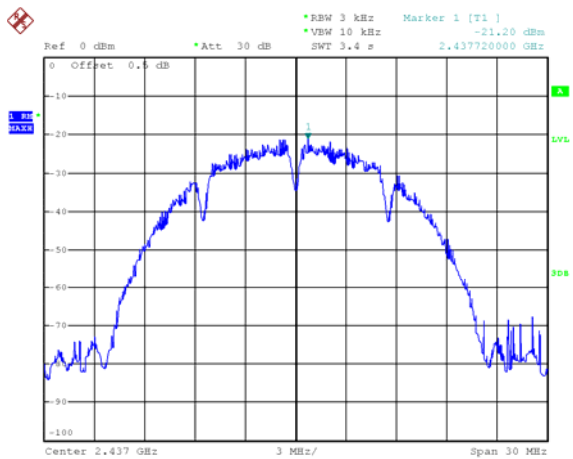
ANT 0:

Mode: TX 11b channel 1



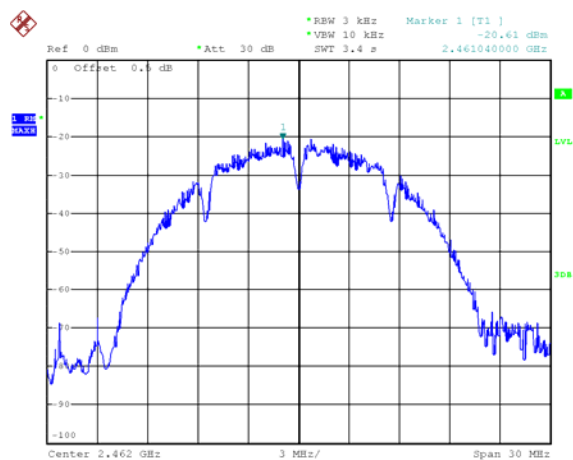
Date: 23.MAY.2023 20:31:35

Mode: TX 11b channel 6



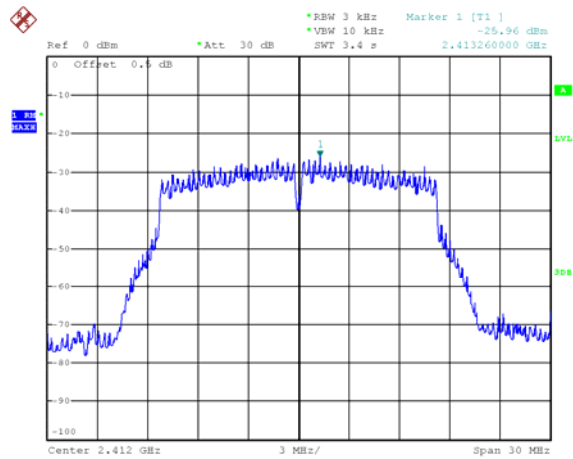
Date: 23.MAY.2023 20:32:19

Mode: TX 11b channel 11



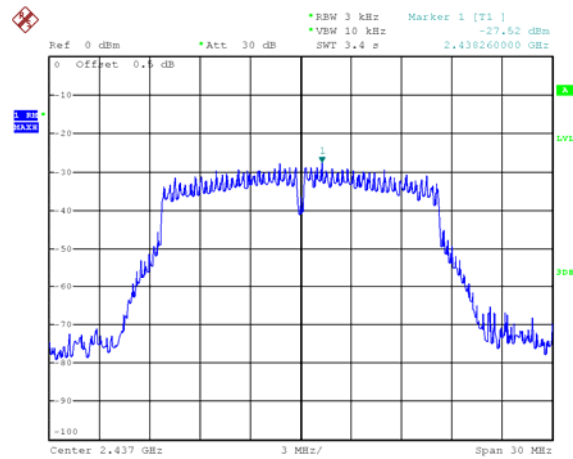
Date: 23.MAY.2023 20:34:29

Mode: TX 11g channel 1



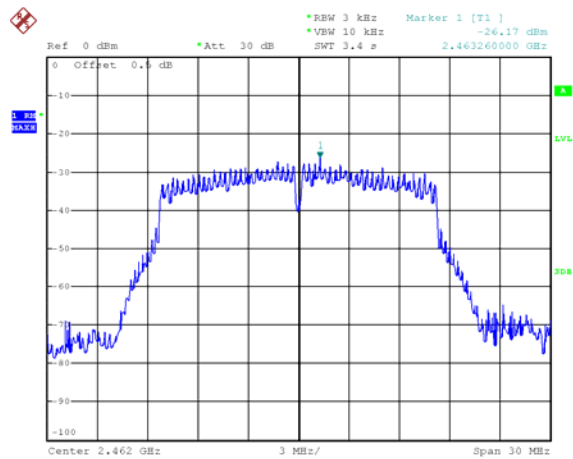
Date: 23.MAY.2023 20:36:39

Mode: TX 11g channel 6



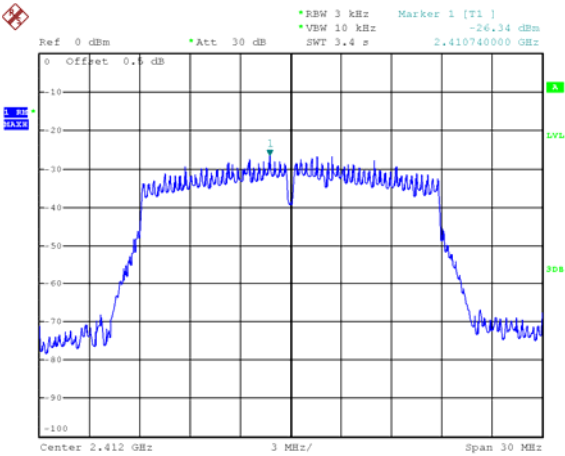
Date: 23.MAY.2023 20:35:53

Mode: TX 11g channel 11



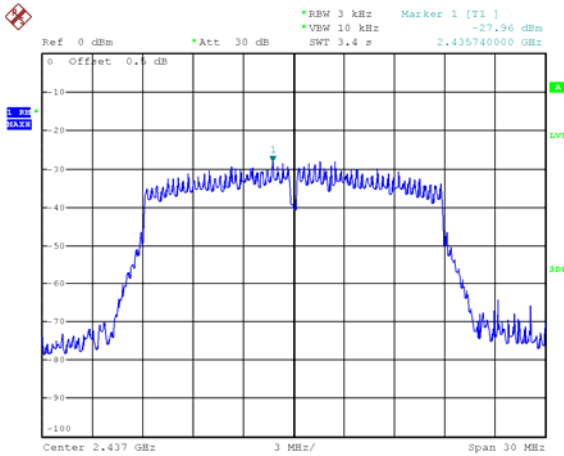
Date: 23.MAY.2023 20:35:12

Mode: TX 11n HT20 channel 1



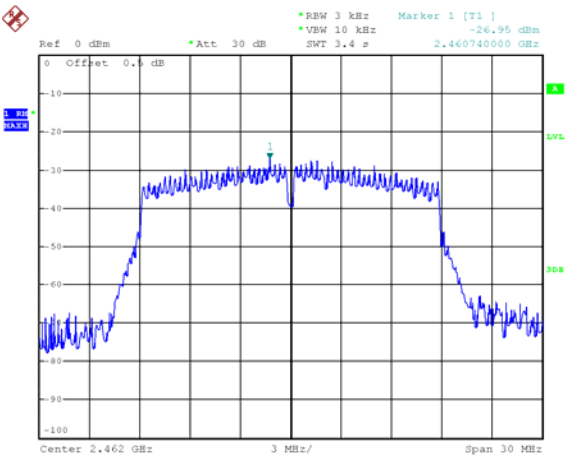
Date: 23.MAY.2023 20:37:31

Mode: TX 11n HT20 channel 6



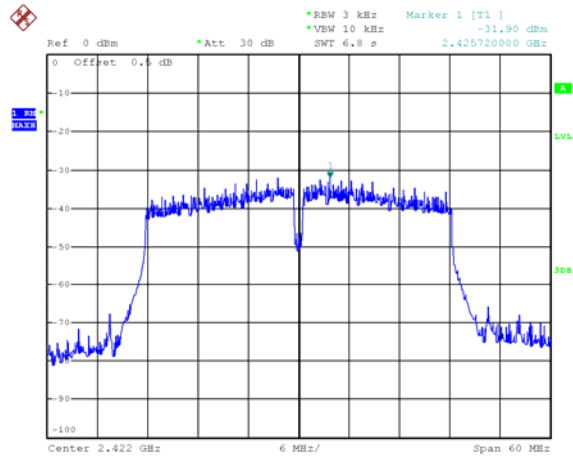
Date: 23.MAY.2023 20:38:26

Mode: TX 11n HT20 channel 11



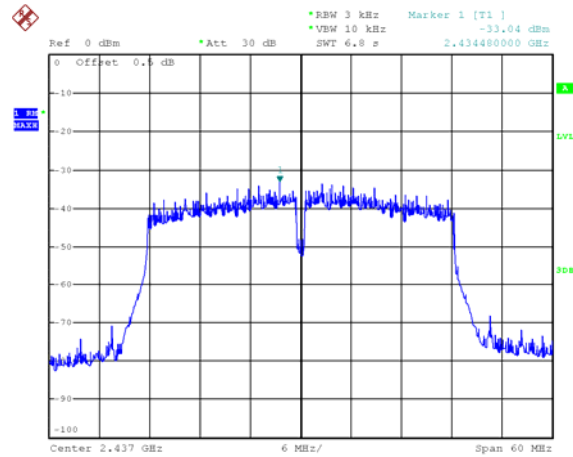
Date: 23.MAY.2023 20:39:29

Mode: TX 11n HT40 channel 3



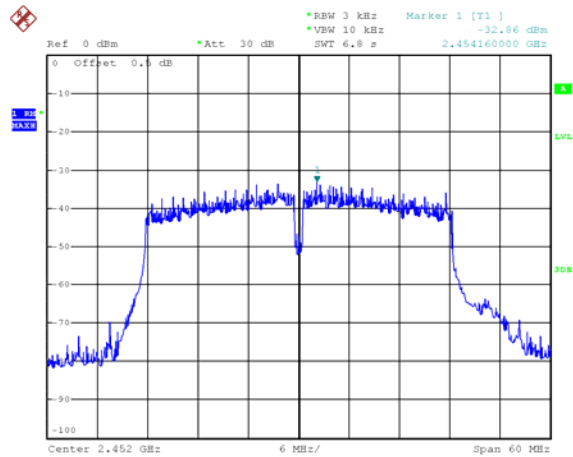
Date: 23.MAY.2023 20:42:47

Mode: TX 11n HT40 channel 6



Date: 23.MAY.2023 20:41:48

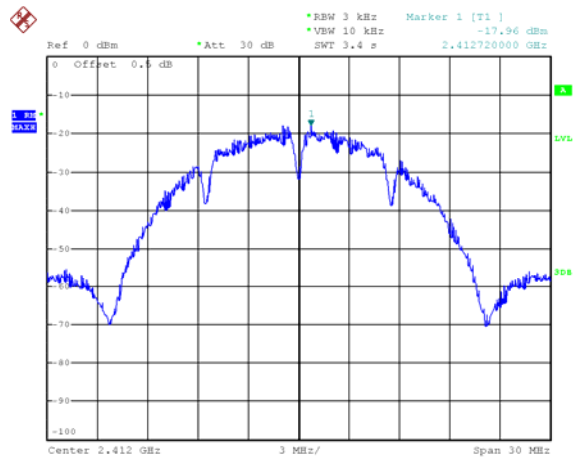
Mode: TX 11n HT40 channel 9



Date: 23.MAY.2023 20:41:08

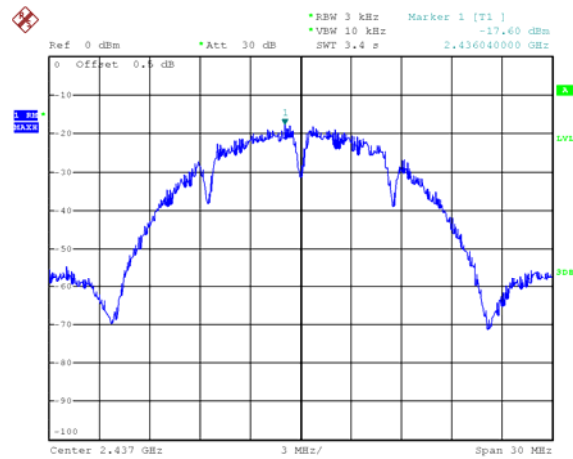
ANT 1:

Mode: TX 11b channel 1



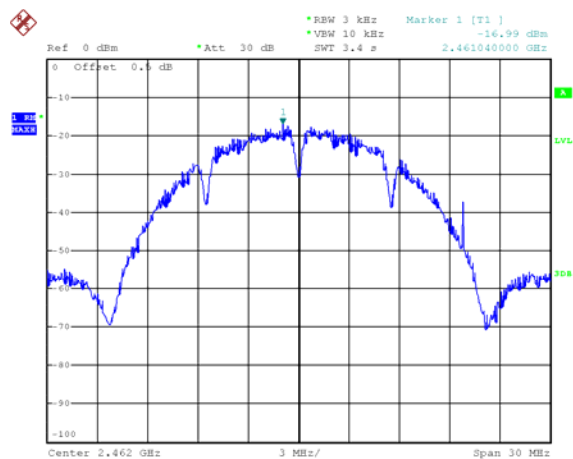
Date: 23.MAY.2023 20:57:11

Mode: TX 11b channel 6



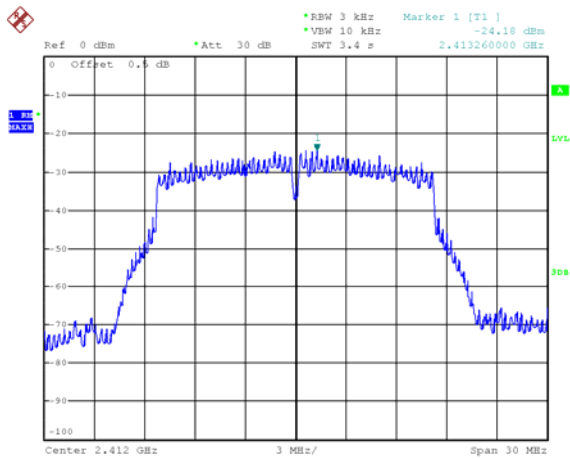
Date: 23.MAY.2023 20:57:59

Mode: TX 11b channel 11



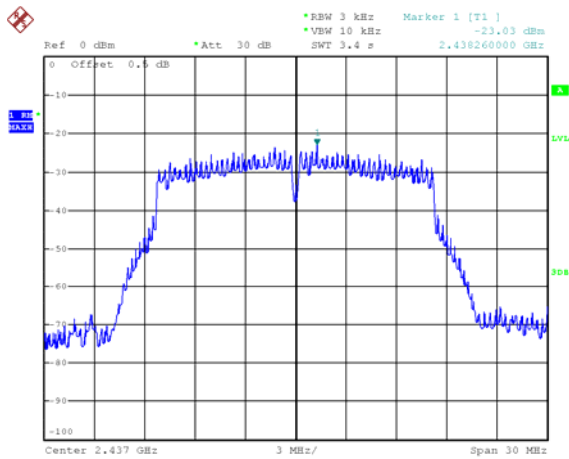
Date: 23.MAY.2023 20:59:17

Mode: TX 11g channel 1



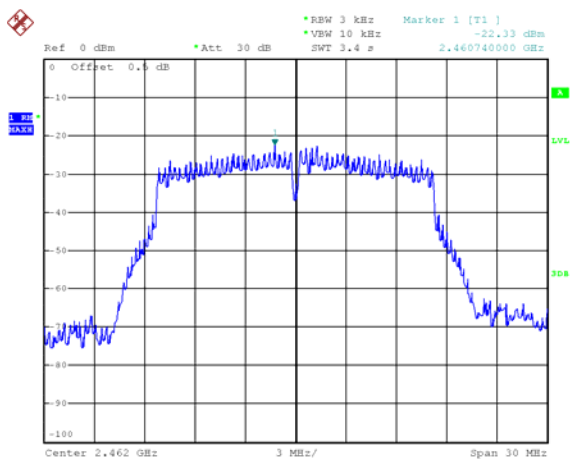
Date: 23.MAY.2023 20:56:28

Mode: TX 11g channel 6



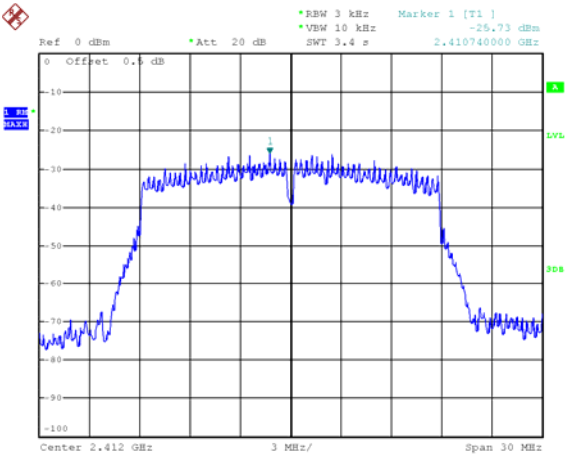
Date: 23.MAY.2023 20:55:51

Mode: TX 11g channel 11



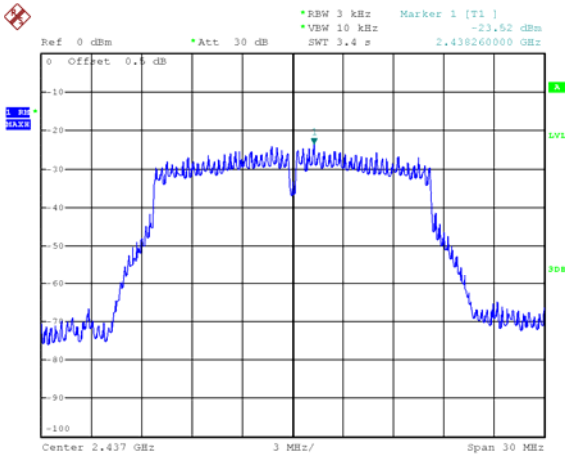
Date: 23.MAY.2023 20:55:16

Mode: TX 11n HT20 channel 1



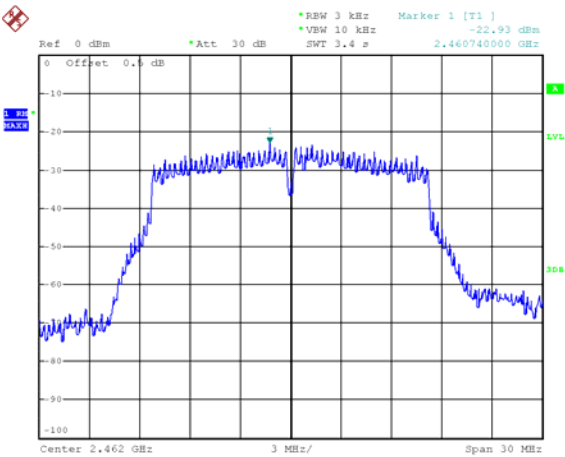
Date: 24.MAY.2023 12:18:55

Mode: TX 11n HT20 channel 6



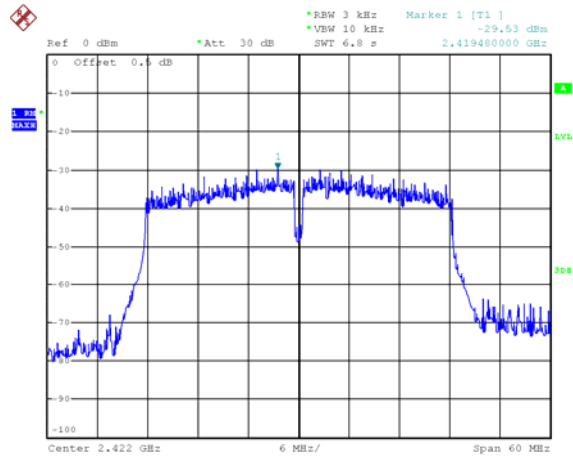
Date: 23.MAY.2023 20:52:03

Mode: TX 11n HT20 channel 11



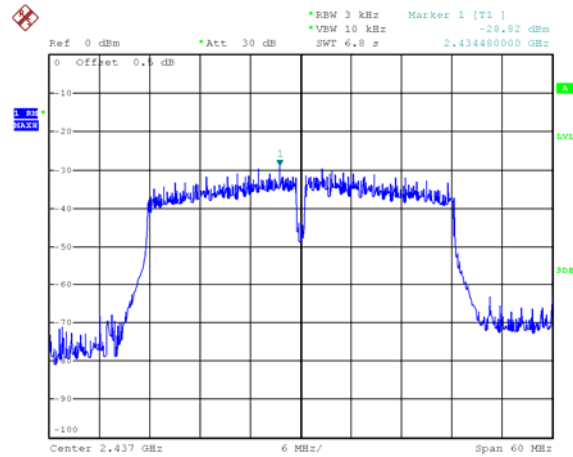
Date: 23.MAY.2023 20:51:18

Mode: TX 11n HT40 channel 3



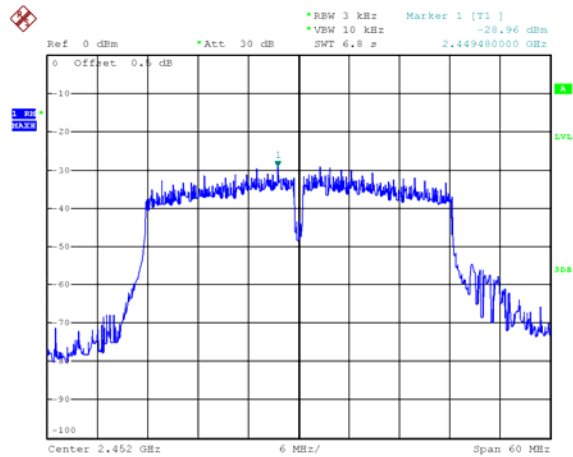
Date: 23.MAY.2023 20:47:29

Mode: TX 11n HT40 channel 6



Date: 23.MAY.2023 20:48:47

Mode: TX 11n HT40 channel 9



Date: 23.MAY.2023 20:49:41

15 Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an integrated antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

16 RF Exposure

Note: Please refer to SAR Report: WTD23D05099396W003.

17 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-BK7000HDLE-Photos.

=====End of Report=====