

TEST REPORT

Reference No..... : WTH22X02016901W-2
FCC ID : 2AWKZ-Q6391M2
Applicant : ENLI INCORPORATION
Address..... : 4F,No.42,Aly.5,Ln.12,Sec.3,Bade Rd.Songshan Dist,Taipei 10559,Taiwan
Manufacturer : FN-LINK TECHNOLOGY LIMITED
Address..... : No. 8, Litong Road, Liuyang Economic and Technological Development
Zone, Hunan Province, China
Product Name : Wi-Fi 6 Dual Band Dual Current 2*2 + Bluetooth (V5.1 LE) M.2 2230 Card
Model No..... : ENL-Q6391M2
Standards : FCC Part 15.247
Date of Receipt sample : 2022-02-14
Date of Test..... : 2022-02-14 to 2022-04-15
Date of Issue : 2022-04-15
Test Report Form No. : WTX_Part 15_247W
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 approver.

Prepared By:

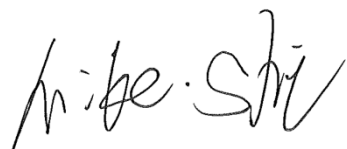
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Mike Shi



Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2022-03-31	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Wi-Fi 6 Dual Band Dual Current 2*2 + Bluetooth (V5.1 LE) M.2 2230 Card
Trade Name:	Enli
Model No.:	ENL-Q6391M2
Adding Model(s):	/
Rated Voltage:	DC3.3V
Power Adapter Model:	/
Note: The test data is gathered from a production sample provided by the manufacturer.	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n, 802.11ax-HE20, 802.11AX-HE40
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20)/ax(HE20) 2422-2452MHz for 802.11n(HT40)/ax(HE40)
RF Output Power:	Antenna 0: 17.89dBm (Conducted) Antenna 1: 18.01dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20)/ax(HE20) 7 for 802.11n(HT40)/ax(HE40)
Channel Separation:	5MHz

The antennas provided to the EUT, Please refer to the following table							
Antenna No.	CON No.	Brand	Model	Ant.Net Gain (dBi)	Frequency range(GHz)	Antenna Type	Connector Type
1	CON1	ARiSTO	RFA - 27 - C38H1 - MHF4300	3	2.4-2.4835	Dipole	IPEX MHF4
	CON2	TLE		5	5.15-5.85	Dipole	IPEX MHF4
2	CON1	ARiSTO	RFA - 27 - JP326 - MHF4300	3.5	2.4-2.4835	PIFA	IPEX MHF4
	CON2	TLE		5	5.15-5.85	PIFA	IPEX MHF4
Note: The Antenna Gain is provided by the customer and can affect the validity of results.							

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the FCC rules.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) 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. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11ax-HE20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM5	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz
TM6	802.11ax-HE40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

2021 Equipment Calibration List

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2021-03-27	2022-03-26
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2021-03-27	2022-03-26
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2021-03-27	2022-03-26
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2021-03-27	2022-03-26
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2021-03-27	2022-03-26
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2021-03-27	2022-03-26
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2021-03-27	2022-03-26
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2021-03-27	2022-03-26
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/
☒ Chamber A: Below 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2021-03-27	2022-03-26
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2021-03-27	2022-03-26
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2021-04-12	2022-04-11
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-19	2023-03-18
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-19	2023-03-18
☒ Chamber A: Above 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2021-03-27	2022-03-26
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2021-03-27	2022-03-26
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2021-04-12	2022-04-11
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18

SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA91705 82	2021-04-27	2023-04-26
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-1415 3	2021-04-27	2022-04-26
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2021-03-27	2022-03-26
☐ Chamber B:Below 1GHz						
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2021-04-12	2022-04-11
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2021-05-06	2022-05-05
☐ Chamber C:Below 1GHz						
SEMT-1319	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2021-12-03	2022-12-02
SEMT-1343	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
SEMT-1333	Amplifier	HP	8447F	2944A03869	2021-04-15	2022-04-14
☒ Conducted Room 1#						
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2021-04-12	2022-04-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2021-04-15	2022-04-14
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2021-04-12	2022-04-11
☐ Conducted Room 2#						
SEMT-1334	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2021-04-12	2022-04-11
SEMT-1336	LISN	Rohde & Schwarz	ENV 216	100097	2021-04-12	2022-04-11

2022 Equipment Calibration List

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2022-03-22	2023-03-21
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2022-03-22	2023-03-21
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2022-03-25	2023-03-24
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2022-03-22	2023-03-21
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2022-03-22	2023-03-21
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2022-03-22	2023-03-21
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2022-03-22	2023-03-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/
☒ Chamber A: Below 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2022-01-07	2023-01-06
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-20	2023-03-19
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-20	2023-03-19
☒ Chamber A: Above 1GHz						
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-22	2023-03-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-22	2023-03-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2022-03-22	2023-03-21
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2021-04-27	2023-04-26
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2021-04-27	2022-04-26

SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2022-03-22	2023-03-21
☐ Chamber B:Below 1GHz						
SEMT-1068	Trilog Broadband Antenna	Schwarz beck	VULB9163(B)	9163-635	2021-04-09	2023-04-08
SEMT-1067	Amplifier	Agilent	8447D	2944A10179	2022-03-22	2023-03-21
SEMT-1066	EMI Test Receiver	Rohde & Schwarz	ESPI	101391	2022-03-22	2023-03-21
☐ Chamber C:Below 1GHz						
SEMT-1319	EMI Test Receiver	Rohde & Schwarz	ESIB 26	100401	2022-01-07	2023-01-06
SEMT-1343	Trilog Broadband Antenna	Schwarz beck	VULB 9168	1194	2021-05-28	2023-05-27
SEMT-1333	Amplifier	HP	8447F	2944A03869	2022-03-22	2023-03-21
☒ Conducted Room 1#						
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2022-03-21	2023-03-20
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2022-03-25	2023-03-24
SEMT-1003	AC LISN	Schwarz beck	NSLK8126	8126-224	2022-03-22	2023-03-21
☐ Conducted Room 2#						
SEMT-1334	EMI Test Receiver	Rohde & Schwarz	ESPI	101259	2022-03-22	2023-03-21
SEMT-1336	LISN	Rohde & Schwarz	ENV 216	100097	2022-03-22	2023-03-21

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 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.

3.2 Evaluation Information

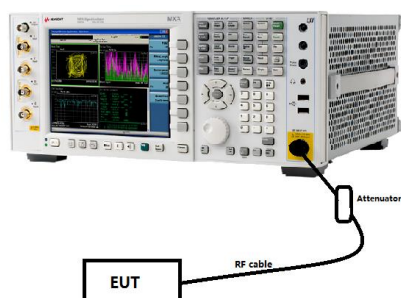
This product has two External antennas, fulfill the requirement of this section.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(a)(1)(iii), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

4.4 Summary of Test Results/Plots

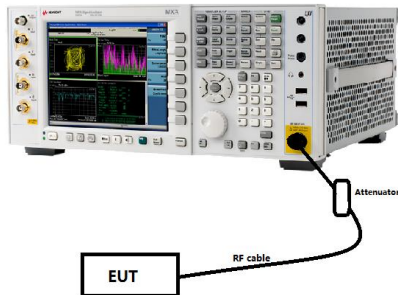
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- a) Set RBW = 100kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- 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.

5.4 Summary of Test Results/Plots

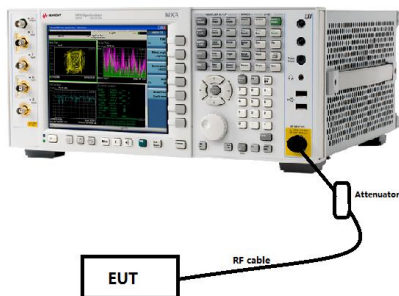
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.2.2 and ANSI C63.10-2013 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth.

- Set span to at least 1.5 times the OBW.
- Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- Set VBW $\geq 3 \times$ RBW.
- Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

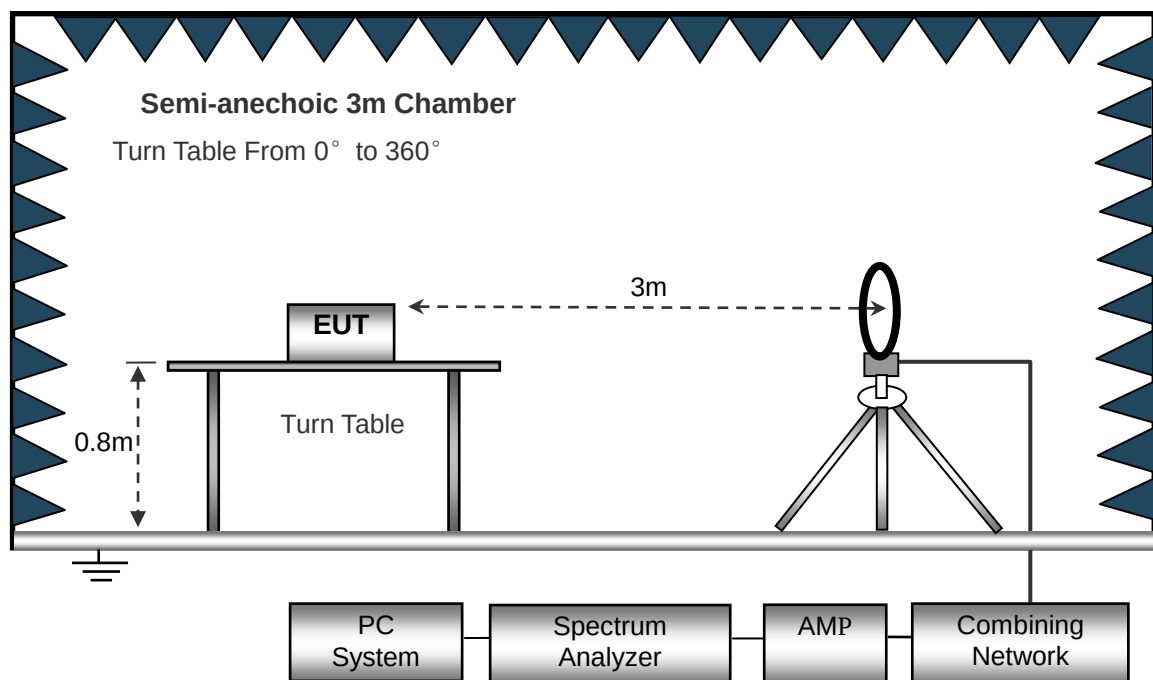
7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

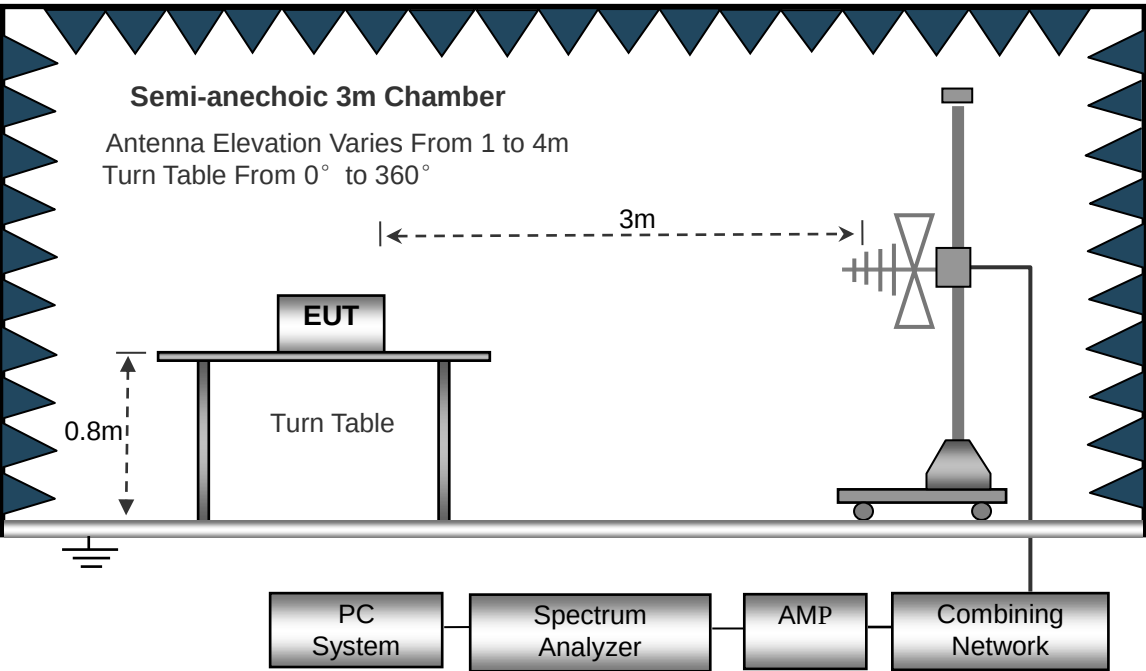
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

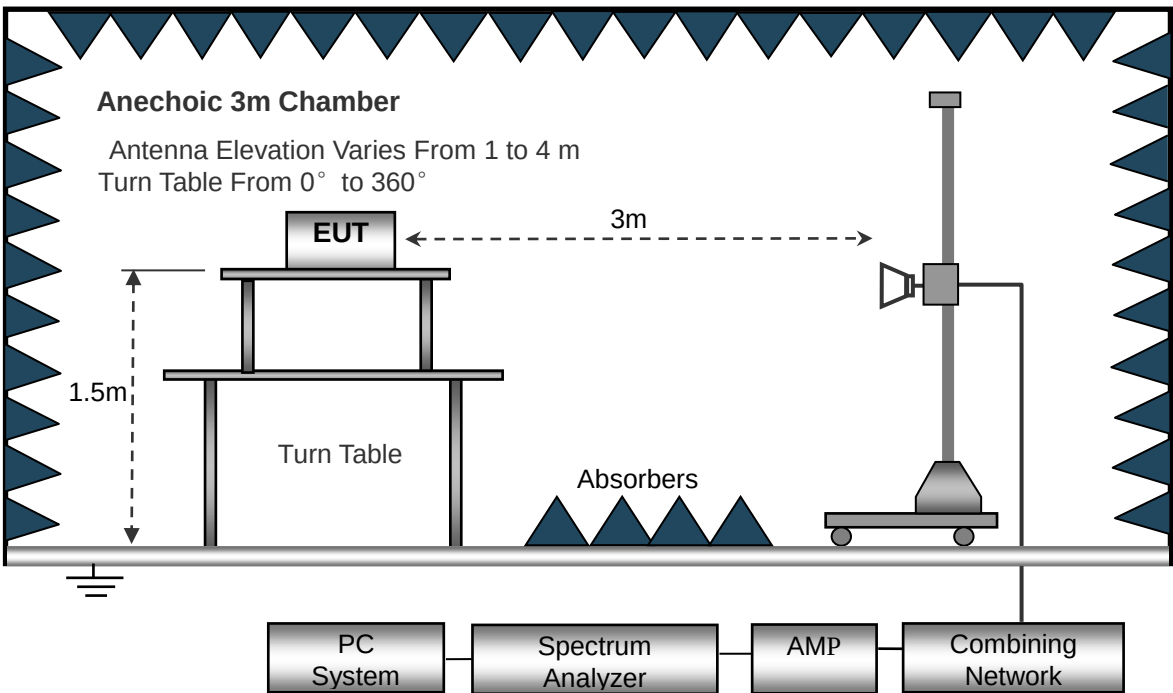
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz RBW=10KHz, VBW =30KHz Sweep time= Auto Trace = max hold Detector function = peak	Frequency :30MHz-1GHz RBW=120KHz, VBW=300KHz Sweep time= Auto Trace = max hold Detector function = peak, QP	Frequency :Above 1GHz RBW=1MHz, VBW=3MHz(Peak), 10Hz(AV) Sweep time= Auto Trace = max hold Detector function = peak, AV
---	--	--

7.3 Corrected Amplitude & Margin Calculation

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

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

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

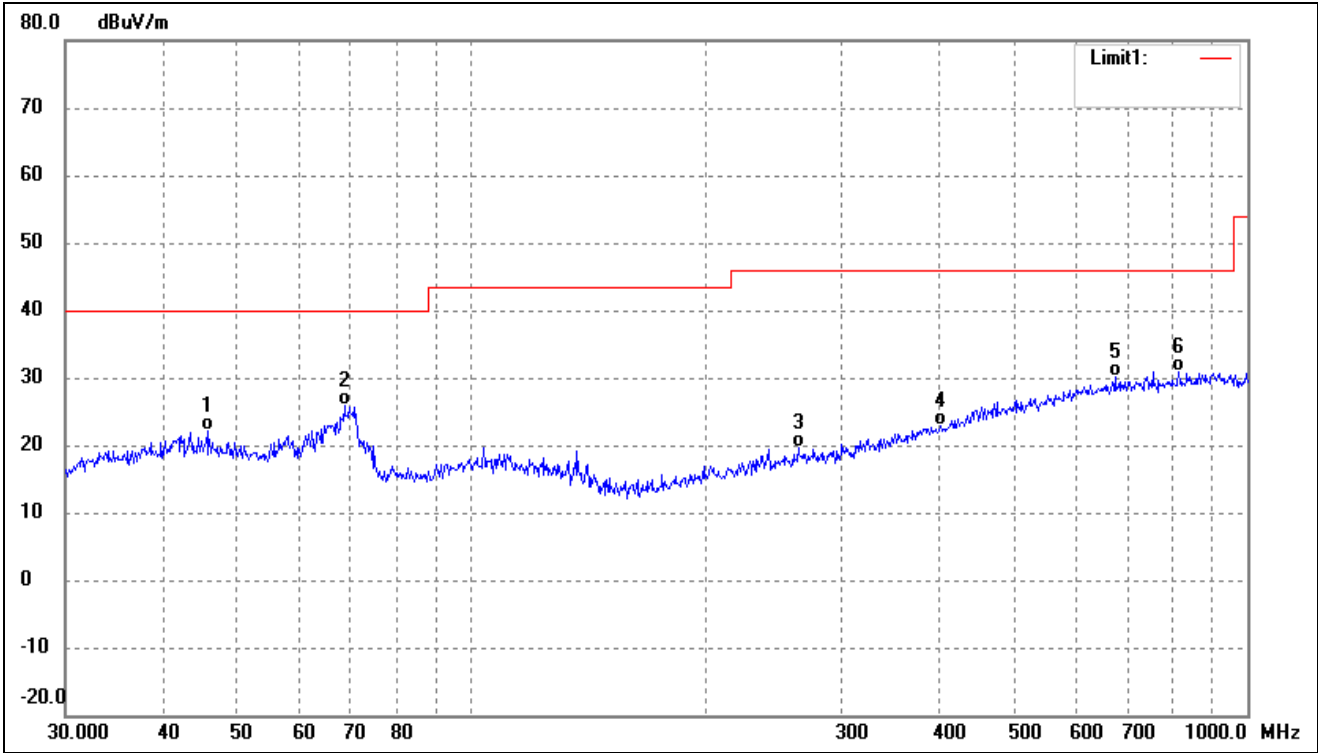
$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

7.4 Summary of Test Results/Plots

*Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.
All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b_11Mbps) is recorded in this report.*

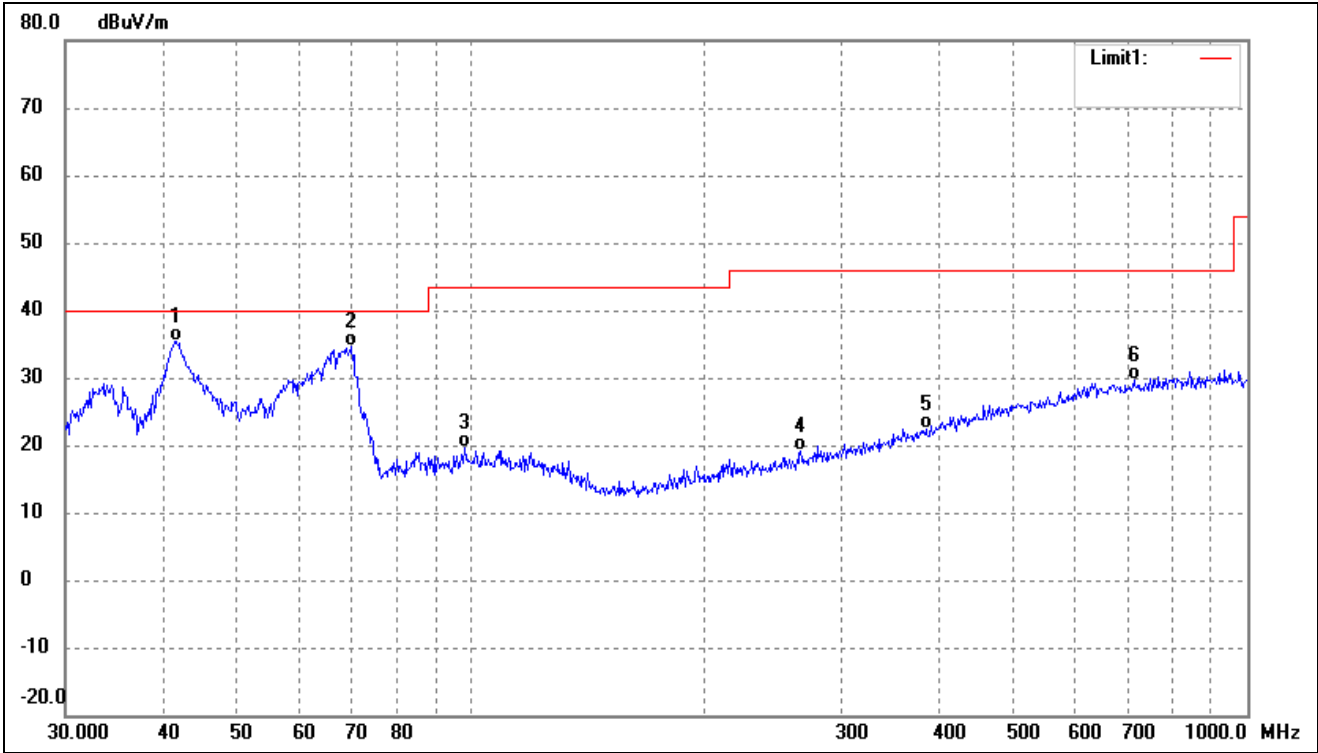
- Antenna 0 (worst case)
- Spurious Emissions Below 1GHz
- Model: RFA - 27 - C38H1 - MHF4300

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal



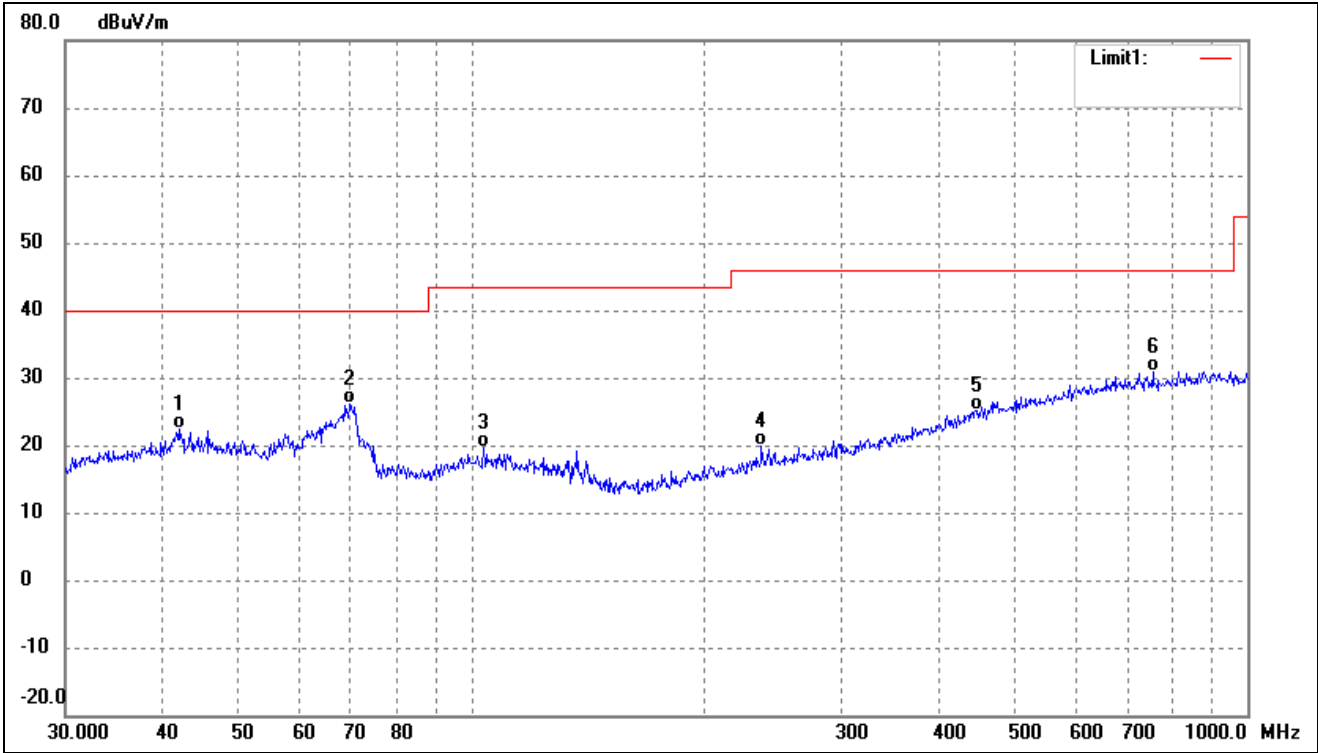
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	45.6948	29.20	-6.98	22.22	40.00	-17.78	-	-	QP
2	68.6310	35.80	-9.94	25.86	40.00	-14.14	-	-	QP
3	263.8190	27.46	-7.94	19.52	46.00	-26.48	-	-	QP
4	403.2500	26.62	-3.80	22.82	46.00	-23.18	-	-	QP
5	675.2080	29.06	1.18	30.24	46.00	-15.76	-	-	QP
6	815.9678	28.71	2.19	30.90	46.00	-15.10	-	-	QP

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical



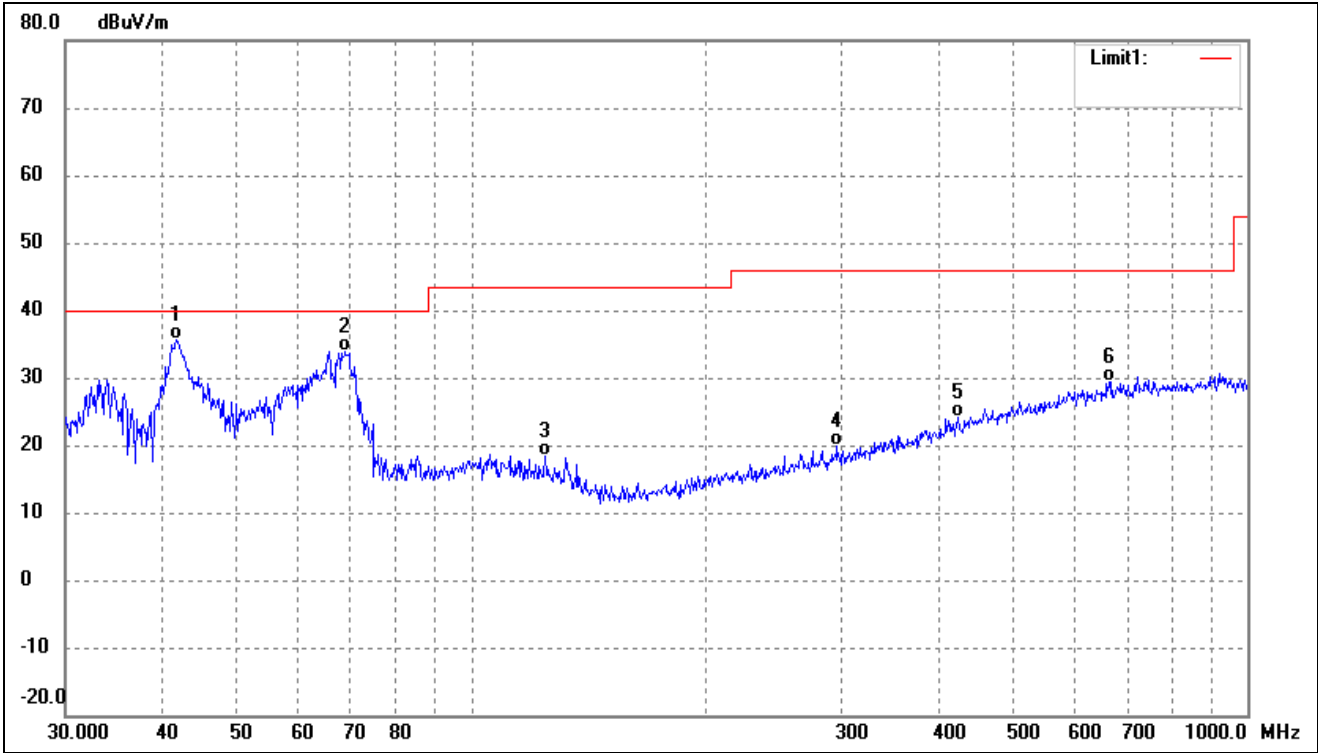
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.7130	42.40	-7.00	35.40	40.00	-4.60	-	-	QP
2	70.0903	44.77	-10.18	34.59	40.00	-5.41	-	-	QP
3	98.1419	28.77	-9.07	19.70	43.50	-23.80	-	-	QP
4	265.6757	27.11	-7.88	19.23	46.00	-26.77	-	-	QP
5	385.2805	26.74	-4.33	22.41	46.00	-23.59	-	-	QP
6	714.1734	28.08	1.52	29.60	46.00	-16.40	-	-	QP

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Horizontal



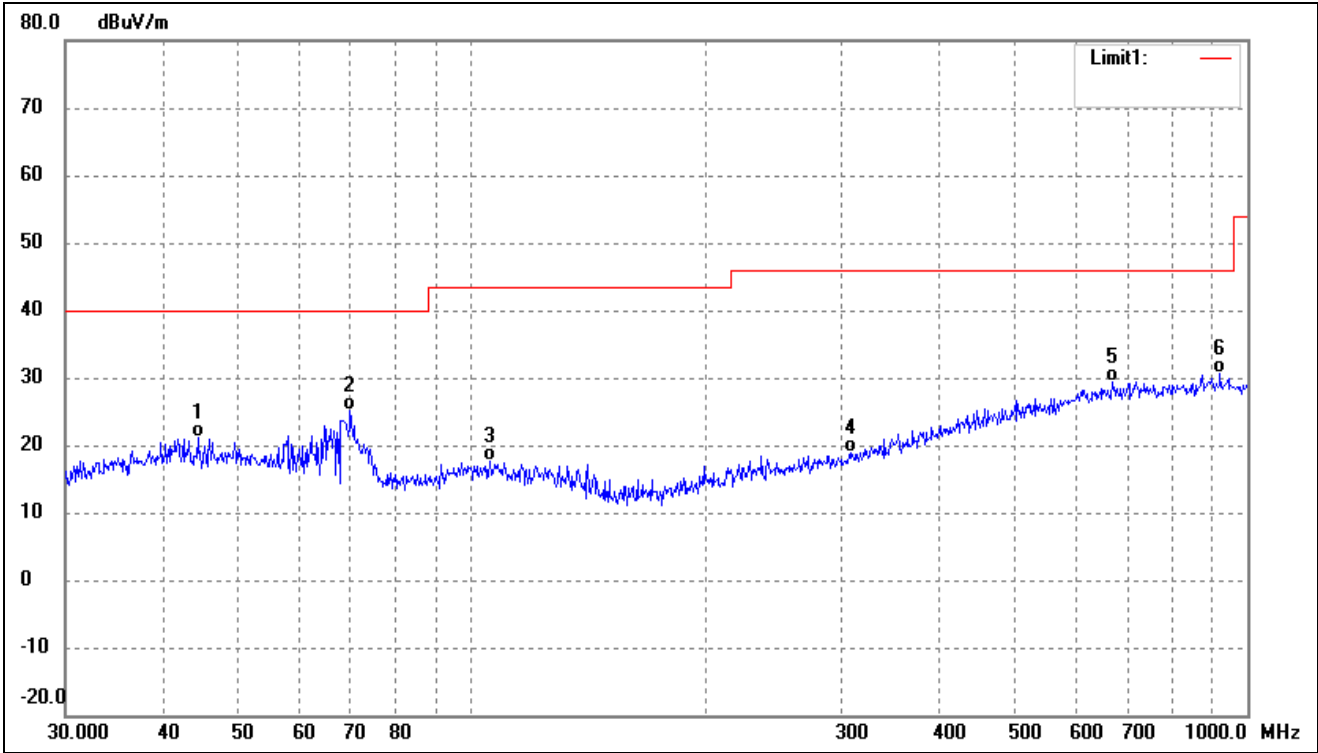
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	42.0066	29.31	-6.99	22.32	40.00	-17.68	-	-	QP
2	69.8450	36.32	-10.15	26.17	40.00	-13.83	-	-	QP
3	103.8055	28.46	-8.79	19.67	43.50	-23.83	-	-	QP
4	236.6447	28.66	-8.68	19.98	46.00	-26.02	-	-	QP
5	447.9822	27.81	-2.61	25.20	46.00	-20.80	-	-	QP
6	755.3873	29.01	1.80	30.81	46.00	-15.19	-	-	QP

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Vertical



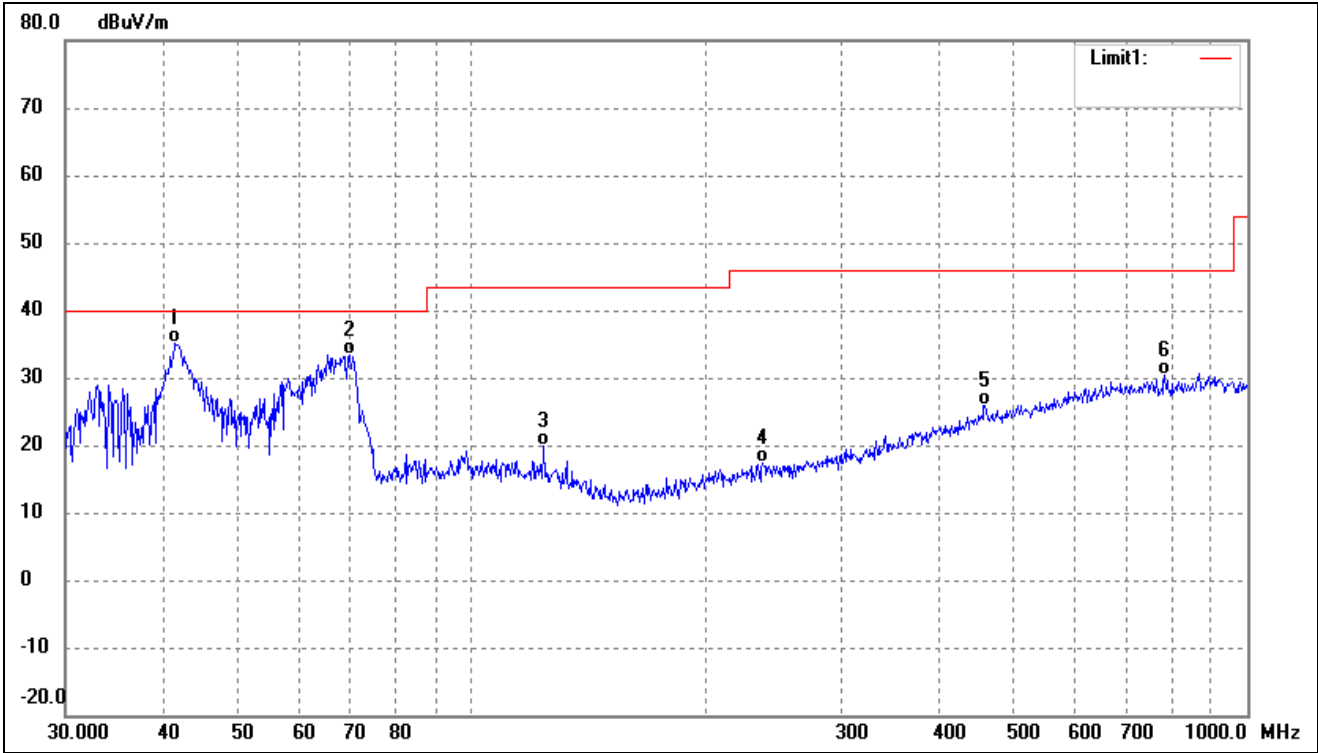
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.7130	42.55	-7.00	35.55	40.00	-4.45	-	-	QP
2	68.8721	43.97	-9.97	34.00	40.00	-6.00	-	-	QP
3	124.5690	28.88	-10.44	18.44	43.50	-25.06	-	-	QP
4	296.1836	26.82	-7.06	19.76	46.00	-26.24	-	-	QP
5	423.5403	27.28	-3.27	24.01	46.00	-21.99	-	-	QP
6	663.4729	28.44	1.06	29.50	46.00	-16.50	-	-	QP

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.4308	28.01	-6.98	21.03	40.00	-18.97	-	-	QP
2	69.8450	35.34	-10.15	25.19	40.00	-14.81	-	-	QP
3	105.6415	26.42	-8.80	17.62	43.50	-25.88	-	-	QP
4	307.8313	25.62	-6.71	18.91	46.00	-27.09	-	-	QP
5	670.4893	28.22	1.14	29.36	46.00	-16.64	-	-	QP
6	922.5157	27.84	2.67	30.51	46.00	-15.49	-	-	QP

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	41.5670	42.16	-7.00	35.16	40.00	-4.84	-	-	QP
2	69.6005	43.52	-10.10	33.42	40.00	-6.58	-	-	QP
3	124.1330	30.13	-10.36	19.77	43.50	-23.73	-	-	QP
4	237.4760	26.04	-8.66	17.38	46.00	-28.62	-	-	QP
5	459.1144	28.16	-2.33	25.83	46.00	-20.17	-	-	QP
6	782.3453	28.28	1.98	30.26	46.00	-15.74	-	-	QP

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- Model: RFA - 27 - C38H1 - MHF4300
- Test Mode: 802.11b_11Mbps (worst case)
- Antenna 0

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	52.48	-3.86	48.62	74	-25.38	H	PK
4824.000	47.07	-3.86	43.21	54	-10.79	H	AV
7236.000	49.69	1.10	50.79	74	-23.21	H	PK
7236.000	42.27	1.10	43.37	54	-10.63	H	AV
4824.000	49.22	-3.86	45.36	74	-28.64	V	PK
4824.000	46.38	-3.86	42.52	54	-11.48	V	AV
7236.000	52.01	1.10	53.11	74	-20.89	V	PK
7236.000	42.85	1.10	43.95	54	-10.05	V	AV
Middle Channel-2437MHz							
4874.000	52.75	-3.74	49.01	74	-24.99	H	PK
4874.000	48.63	-3.74	44.89	54	-9.11	H	AV
7311.000	48.88	1.47	50.35	74	-23.65	H	PK
7311.000	42.86	1.47	44.33	54	-9.67	H	AV
4874.000	49.61	-3.74	45.87	74	-28.13	V	PK
4874.000	46.91	-3.74	43.17	54	-10.83	V	AV
7311.000	50.83	1.47	52.30	74	-21.70	V	PK
7311.000	42.89	1.47	44.36	54	-9.64	V	AV
High Channel-2462MHz							
4924.000	53.32	-3.63	49.69	74	-24.31	H	PK
4924.000	47.15	-3.63	43.52	54	-10.48	H	AV
7386.000	50.00	1.62	51.62	74	-22.38	H	PK
7386.000	41.58	1.62	43.20	54	-10.80	H	AV
4924.000	50.46	-3.63	46.83	74	-27.17	V	PK
4924.000	45.98	-3.63	42.35	54	-11.65	V	AV
7386.000	52.49	1.62	54.11	74	-19.89	V	PK
7386.000	43.02	1.62	44.64	54	-9.36	V	AV

➤ Antenna 1

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	52.69	-3.86	48.83	74	-25.17	H	PK
4824.000	47.67	-3.86	43.81	54	-10.19	H	AV
7236.000	49.20	1.10	50.30	74	-23.70	H	PK
7236.000	41.38	1.10	42.48	54	-11.52	H	AV
4824.000	49.36	-3.86	45.50	74	-28.50	V	PK
4824.000	46.51	-3.86	42.65	54	-11.35	V	AV
7236.000	51.58	1.10	52.68	74	-21.32	V	PK
7236.000	42.86	1.10	43.96	54	-10.04	V	AV
Middle Channel-2437MHz							
4874.000	52.61	-3.74	48.87	74	-25.13	H	PK
4874.000	47.12	-3.74	43.38	54	-10.62	H	AV
7311.000	48.59	1.47	50.06	74	-23.94	H	PK
7311.000	42.94	1.47	44.41	54	-9.59	H	AV
4874.000	49.57	-3.74	45.83	74	-28.17	V	PK
4874.000	46.91	-3.74	43.17	54	-10.83	V	AV
7311.000	51.06	1.47	52.53	74	-21.47	V	PK
7311.000	42.78	1.47	44.25	54	-9.75	V	AV
High Channel-2462MHz							
4924.000	53.78	-3.63	50.15	74	-23.85	H	PK
4924.000	48.95	-3.63	45.32	54	-8.68	H	AV
7386.000	50.32	1.62	51.94	74	-22.06	H	PK
7386.000	42.44	1.62	44.06	54	-9.94	H	AV
4924.000	50.47	-3.63	46.84	74	-27.16	V	PK
4924.000	45.88	-3.63	42.25	54	-11.75	V	AV
7386.000	50.74	1.62	52.36	74	-21.64	V	PK
7386.000	43.61	1.62	45.23	54	-8.77	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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).

8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement

KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) $VBW \geq [3 \times RBW]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

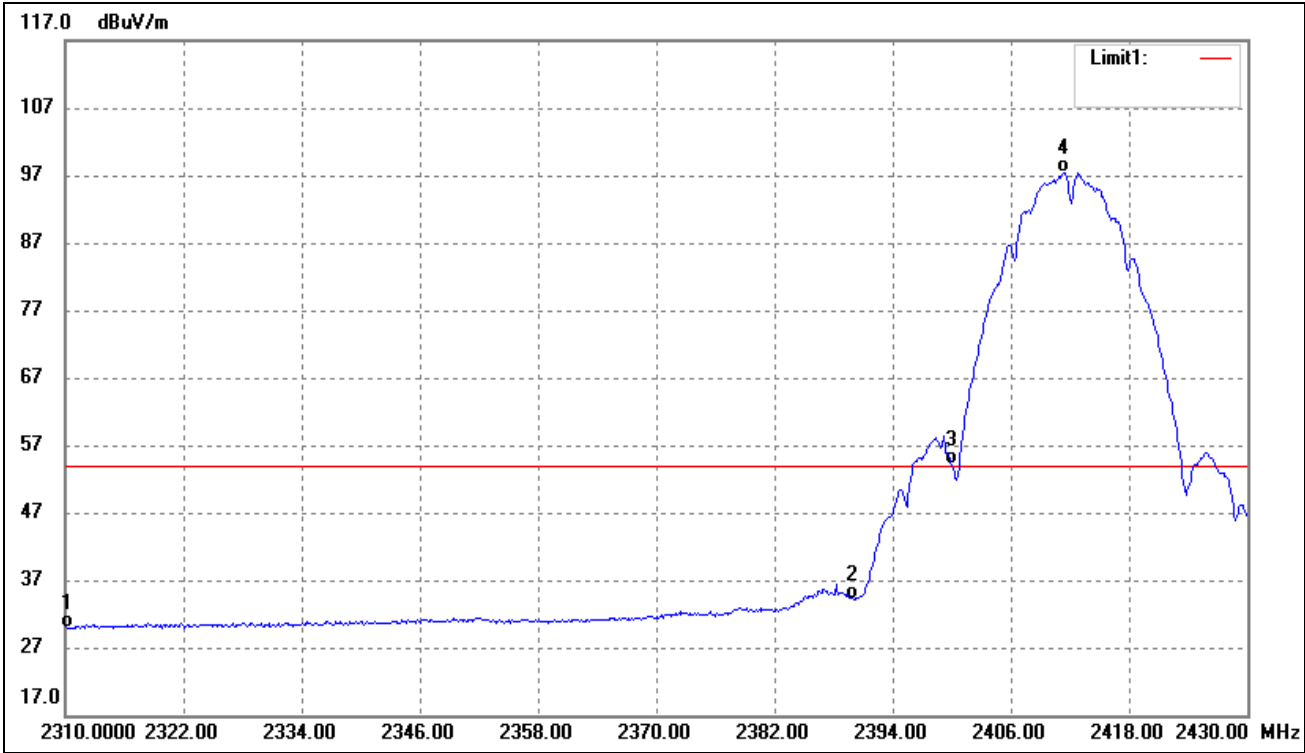
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

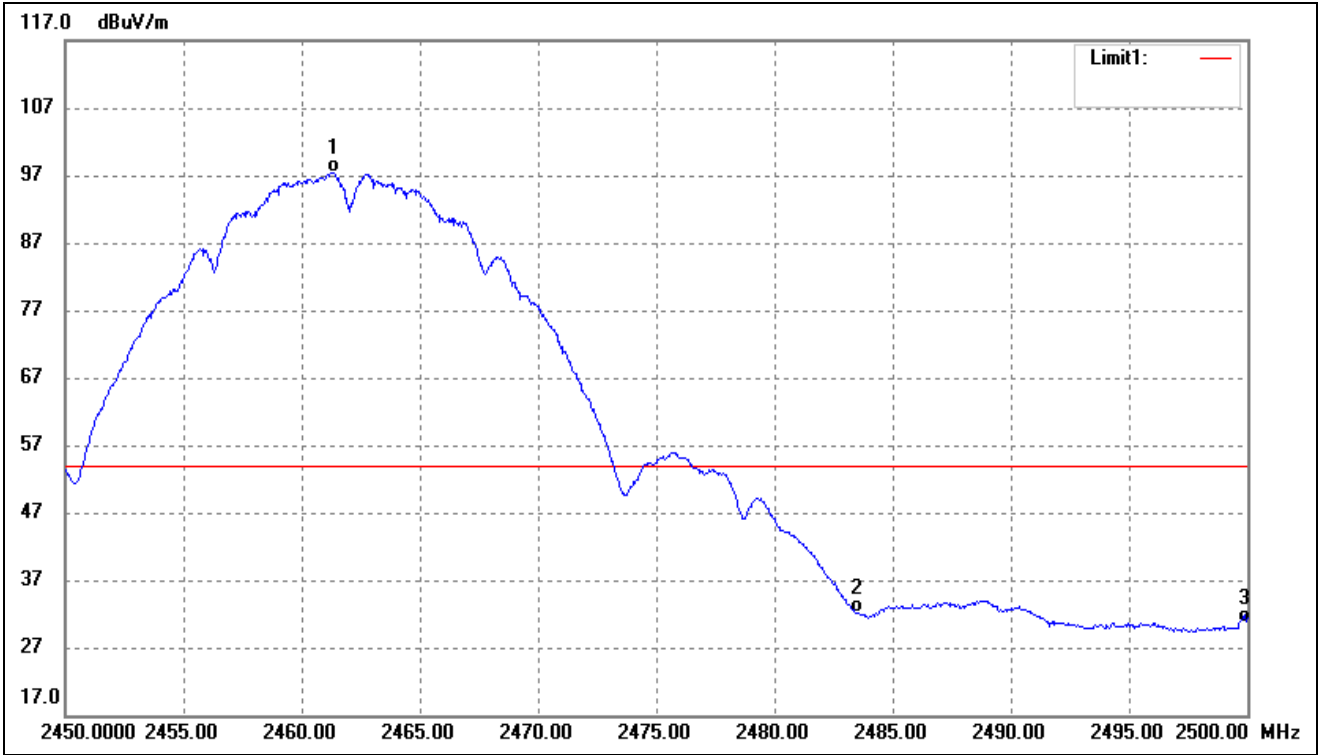
➤ Radiated test

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal (worst case)



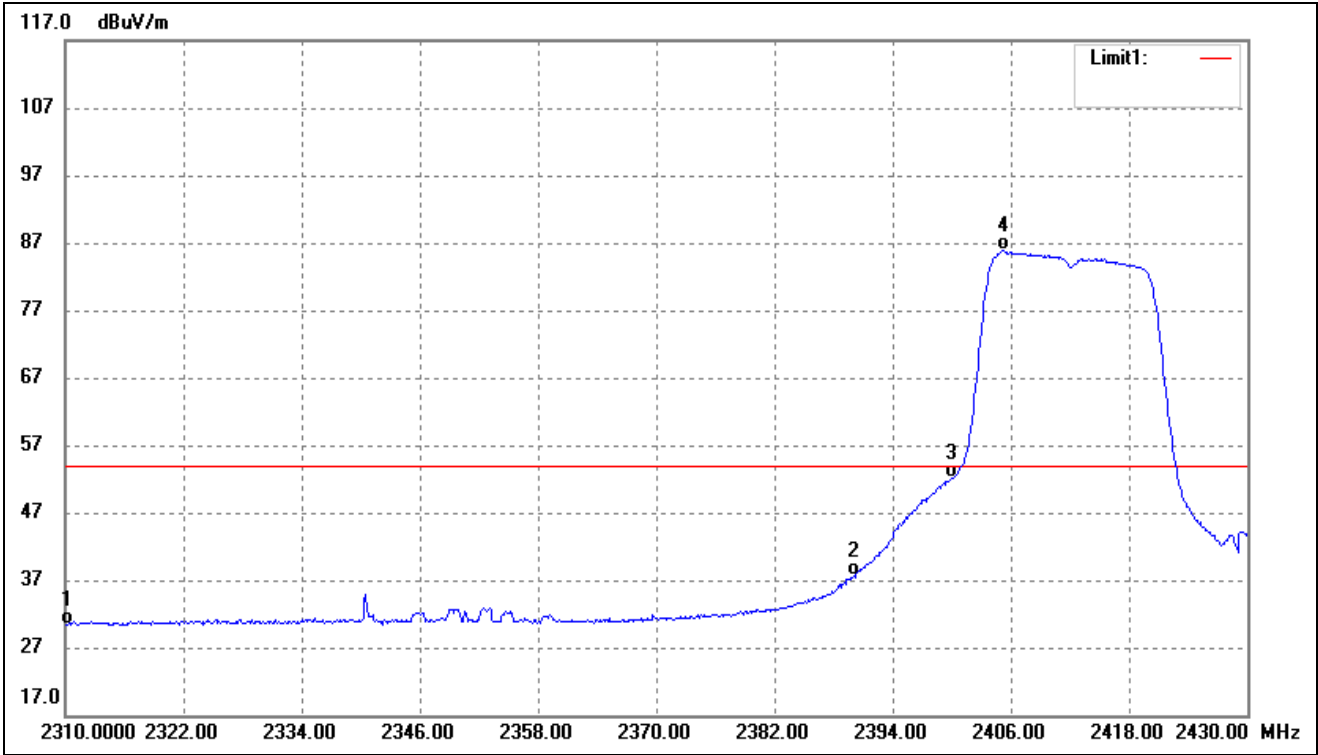
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.82	-10.82	30.00	54.00	-24.00	Average Detector
	2310.000	52.90	-10.82	42.08	74.00	-31.92	Peak Detector
2	2390.000	44.80	-10.70	34.10	54.00	-19.90	Average Detector
	2390.000	57.32	-10.70	46.62	74.00	-27.38	Peak Detector
3	2400.000	64.74	-10.69	54.05	Delta=43.36dBc		Average Detector
4	2411.400	108.09	-10.68	97.41			Average Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal (worst case)



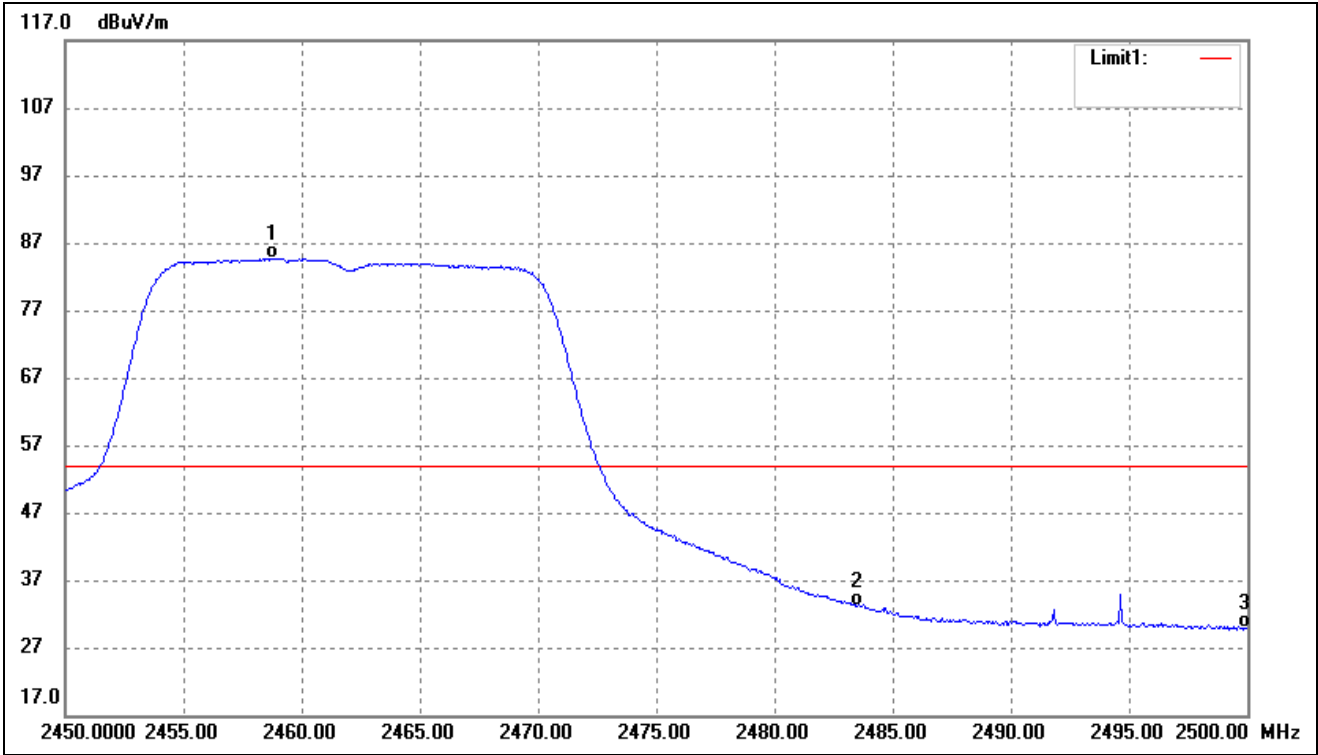
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.350	108.07	-10.61	97.46	/	/	Average Detector
	2460.950	112.67	-10.61	102.06	/	/	Peak Detector
2	2483.500	42.65	-10.58	32.07	54.00	-21.93	Average Detector
	2483.500	55.12	-10.58	44.54	74.00	-29.46	Peak Detector
3	2500.000	41.06	-10.55	30.51	54.00	-23.49	Average Detector
	2500.000	52.72	-10.55	42.17	74.00	-31.83	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Horizontal (worst case)



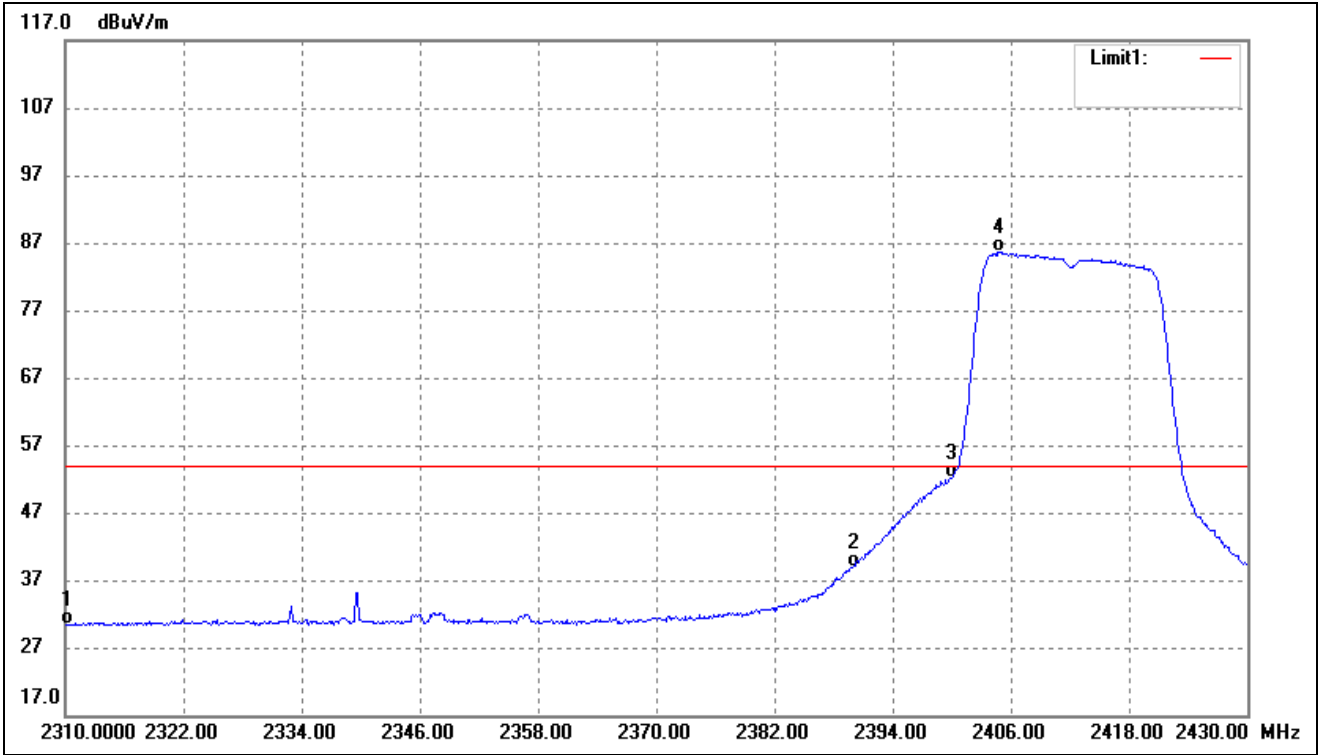
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.26	-10.82	30.44	54.00	-23.56	Average Detector
	2310.000	53.99	-10.82	43.17	74.00	-30.83	Peak Detector
2	2390.000	48.32	-10.70	37.62	54.00	-16.38	Average Detector
	2390.000	69.01	-10.70	58.31	74.00	-15.69	Peak Detector
3	2400.000	62.72	-10.69	52.03	Delta=33.80dBc		Average Detector
4	2405.280	96.51	-10.68	85.83			Average Detector

802.11g_54Mbps			
Test Channel	High	Polarity:	Horizontal (worst case)



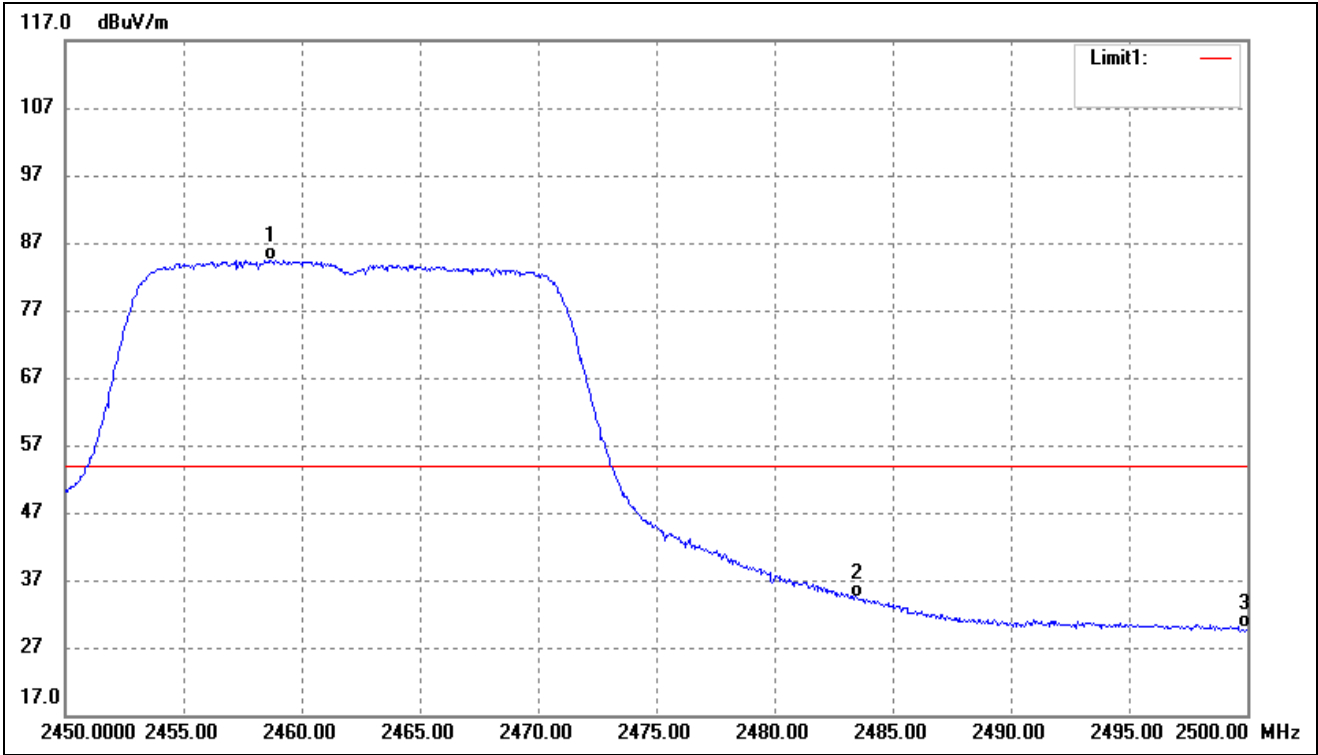
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.750	95.28	-10.61	84.67	/	/	Average Detector
	2459.550	106.34	-10.61	95.73	/	/	Peak Detector
2	2483.500	43.72	-10.58	33.14	54.00	-20.86	Average Detector
	2483.500	66.09	-10.58	55.51	74.00	-18.49	Peak Detector
3	2500.000	40.35	-10.55	29.80	54.00	-24.20	Average Detector
	2500.000	56.57	-10.55	46.02	74.00	-27.98	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Horizontal (worst case)



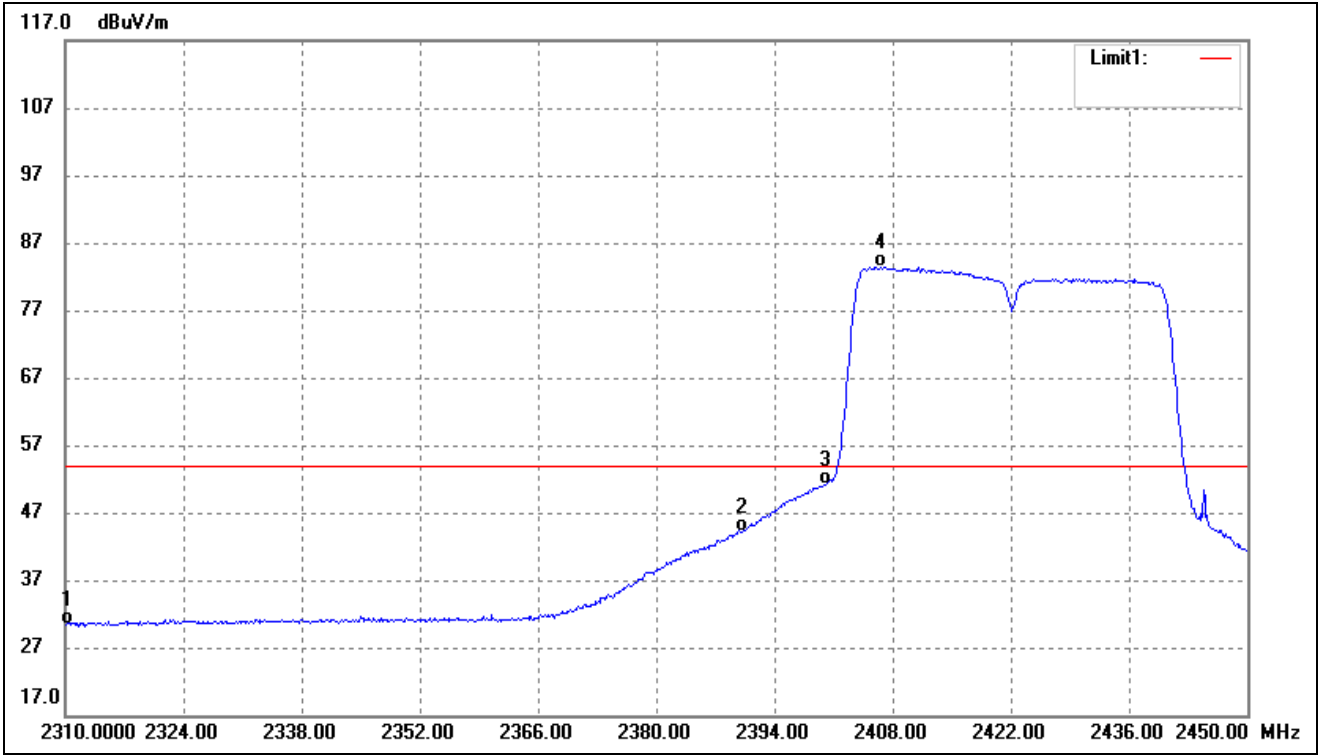
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.19	-10.82	30.37	54.00	-23.63	Average Detector
	2310.000	52.91	-10.82	42.09	74.00	-31.91	Peak Detector
2	2390.000	49.70	-10.70	39.00	54.00	-15.00	Average Detector
	2390.000	75.44	-10.70	64.74	74.00	-9.26	Peak Detector
3	2400.000	62.72	-10.69	52.03	Delta=33.59dBc		Average Detector
4	2404.800	96.30	-10.68	85.62			Average Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Horizontal (worst case)



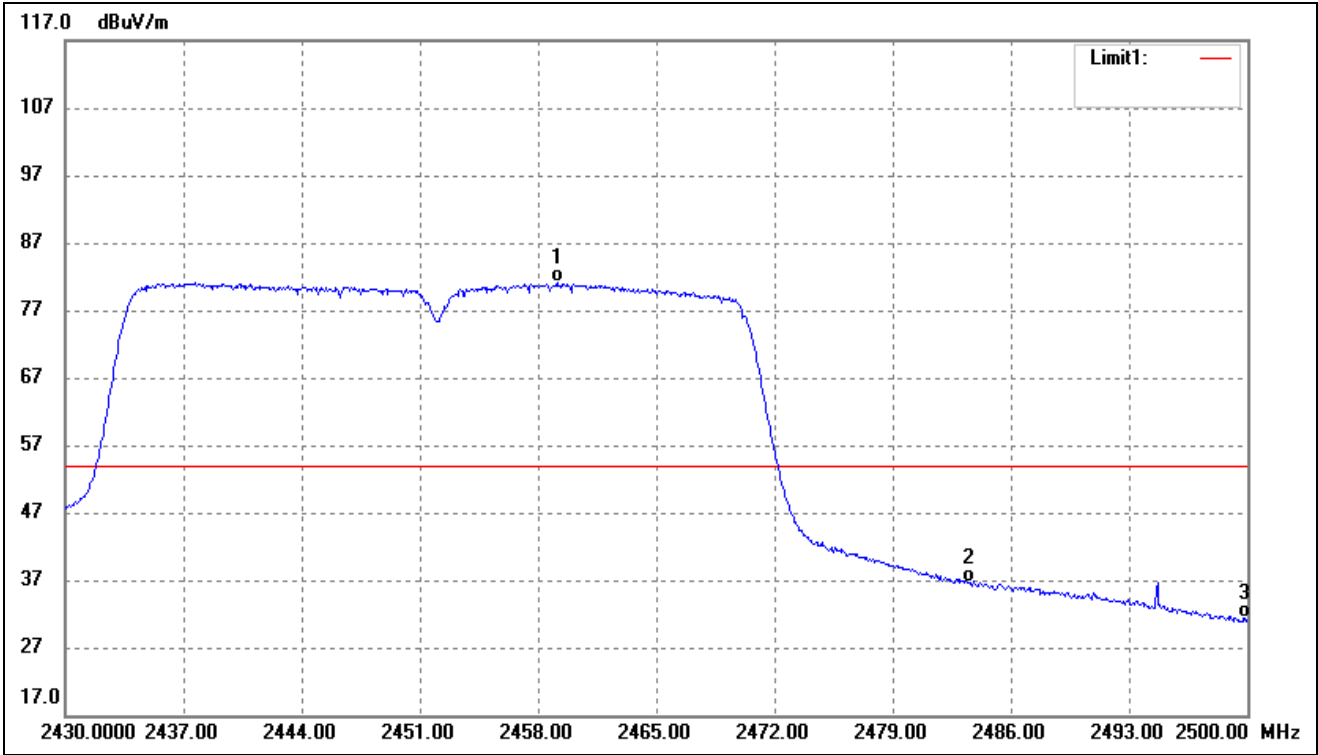
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.700	94.97	-10.61	84.36	/	/	Average Detector
	2459.500	106.86	-10.61	96.25	/	/	Peak Detector
2	2483.500	44.89	-10.58	34.31	54.00	-19.69	Average Detector
	2483.500	65.77	-10.58	55.19	74.00	-18.81	Peak Detector
3	2500.000	40.32	-10.55	29.77	54.00	-24.23	Average Detector
	2500.000	58.22	-10.55	47.67	74.00	-26.33	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Horizontal (worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.23	-10.82	30.41	54.00	-23.59	Average Detector
	2310.000	53.02	-10.82	42.20	74.00	-31.80	Peak Detector
2	2390.000	54.87	-10.70	44.17	54.00	-9.83	Average Detector
	2390.000	72.10	-10.70	61.40	74.00	-12.60	Peak Detector
3	2400.000	61.85	-10.69	51.16	Delta=32.20dBc		Average Detector
4	2406.600	94.04	-10.68	83.36			Average Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.120	91.68	-10.61	81.07	/	/	Average Detector
	2442.040	103.52	-10.63	92.89	/	/	Peak Detector
2	2483.500	47.11	-10.58	36.53	54.00	-17.47	Average Detector
	2483.500	68.48	-10.58	57.90	74.00	-16.10	Peak Detector
3	2500.000	41.86	-10.55	31.31	54.00	-22.69	Average Detector
	2500.000	55.35	-10.55	44.80	74.00	-29.20	Peak Detector

➤ Conducted test
Please refer to Appendix D

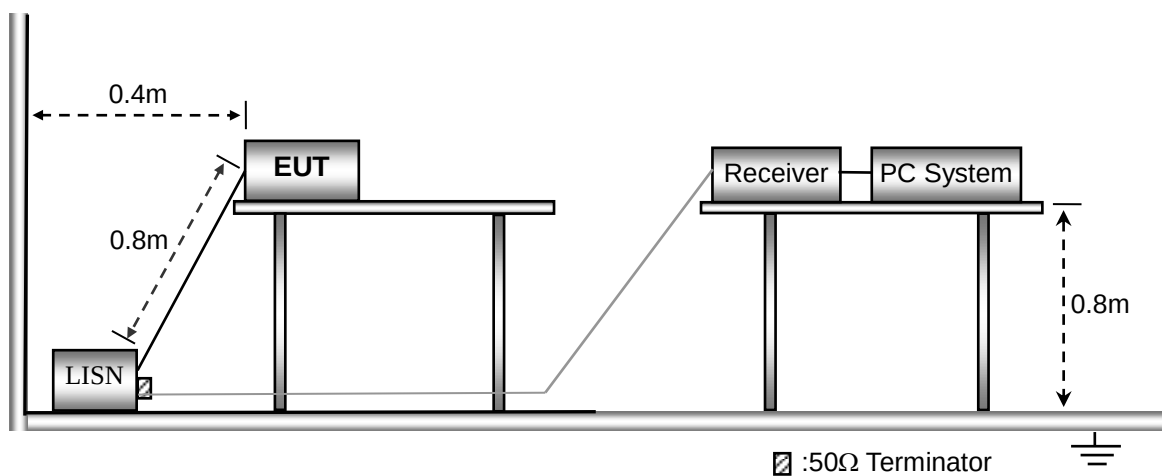
9. Conducted Emissions

9.1 Test Procedure

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

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle. The spacing between the peripherals was 10cm.

9.2 Basic Test Setup Block Diagram



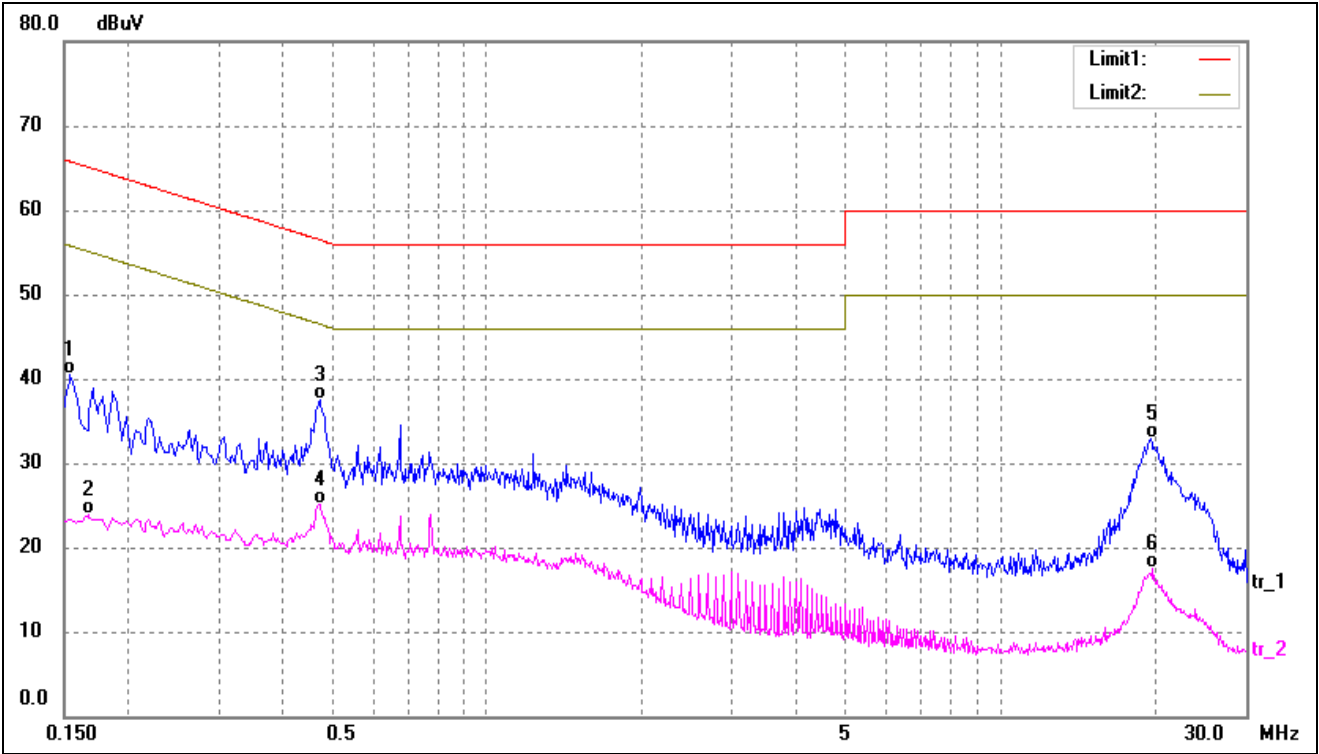
9.3 Test Receiver Setup

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

Start Frequency	150kHz
Stop Frequency	30MHz
Sweep Speed	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth	9kHz
Quasi-Peak Adapter Mode	Normal

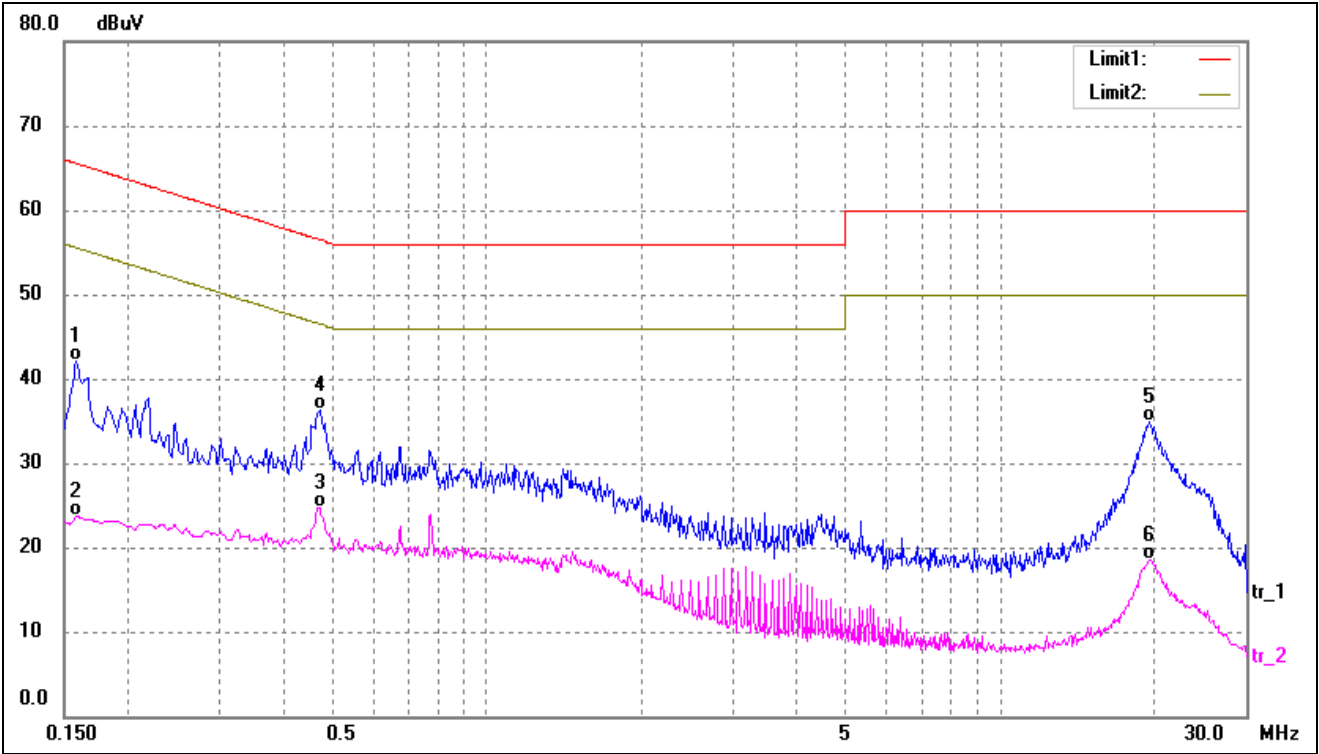
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
-----------	---------------	-------------	-----------	---------



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	30.18	10.37	40.55	65.78	-25.23	QP
2	0.1660	13.44	10.37	23.81	55.16	-31.35	AVG
3*	0.4700	27.20	10.27	37.47	56.51	-19.04	QP
4	0.4700	14.89	10.27	25.16	46.51	-21.35	AVG
5	19.6060	22.58	10.24	32.82	60.00	-27.18	QP
6	19.8100	7.32	10.25	17.57	50.00	-32.43	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1580	31.70	10.37	42.07	65.57	-23.50	QP
2	0.1580	13.41	10.37	23.78	55.57	-31.79	AVG
3	0.4700	14.46	10.27	24.73	46.51	-21.78	AVG
4*	0.4740	26.07	10.27	36.34	56.44	-20.10	QP
5	19.4580	24.63	10.24	34.87	60.00	-25.13	QP
6	19.5540	8.23	10.24	18.47	50.00	-31.53	AVG

APPENDIX SUMMARY

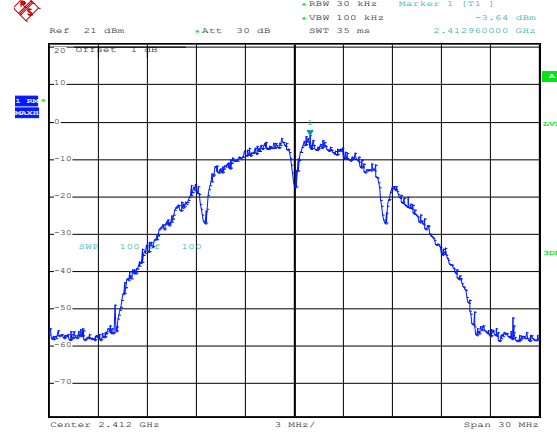
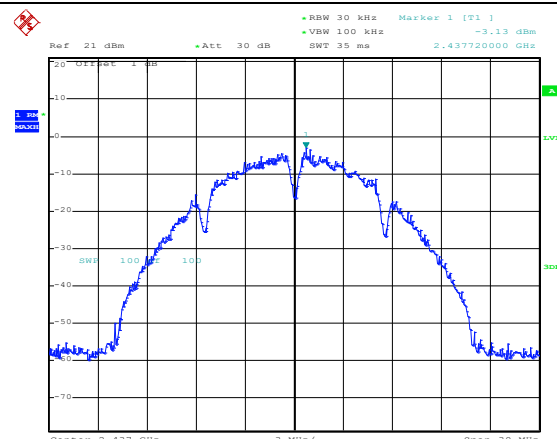
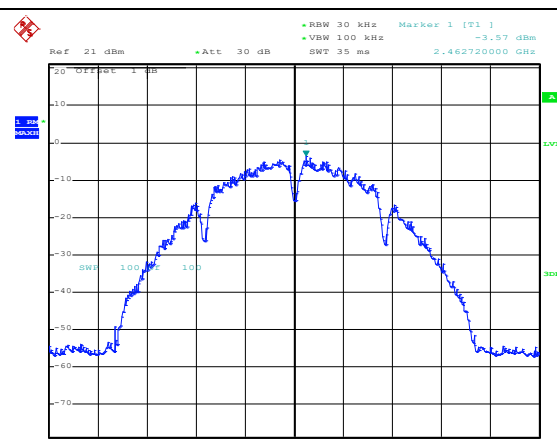
Project No.	WTH22X02016901W	Test Engineer	Gala
Start date	2022/3/29	Finish date	2022/3/29
Temperature	23℃	Humidity	45%
RF specifications	WIFI-2.4G		

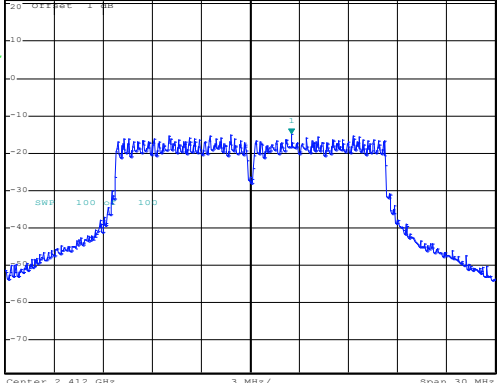
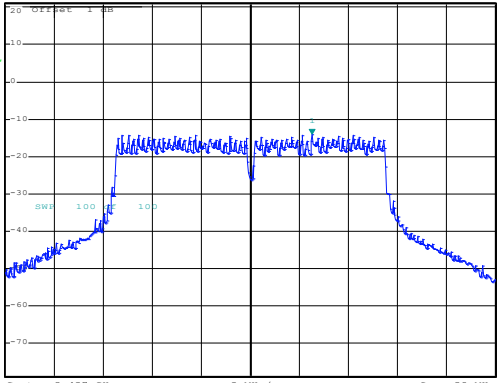
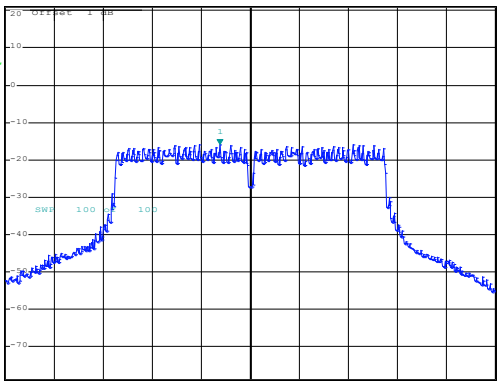
APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth&99% Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

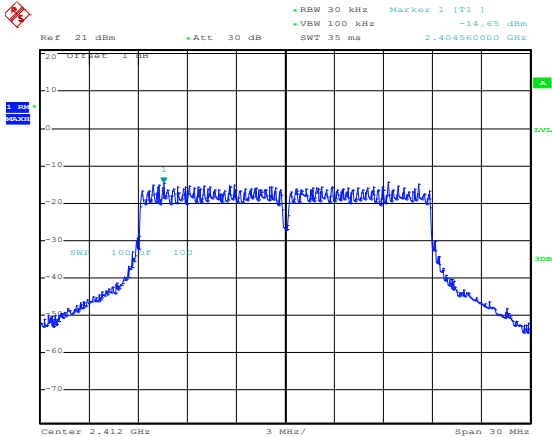
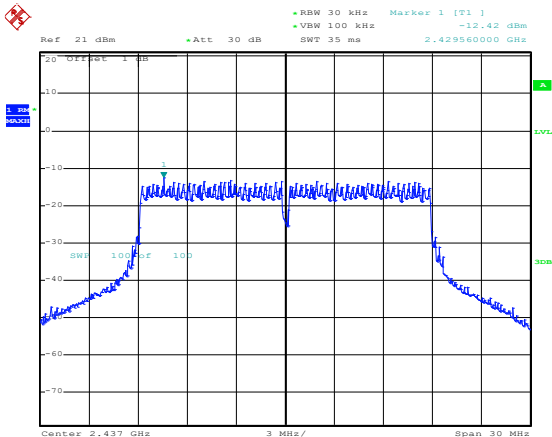
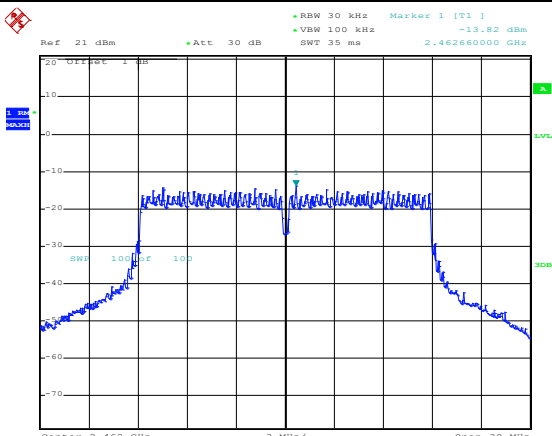
APPENDIX A

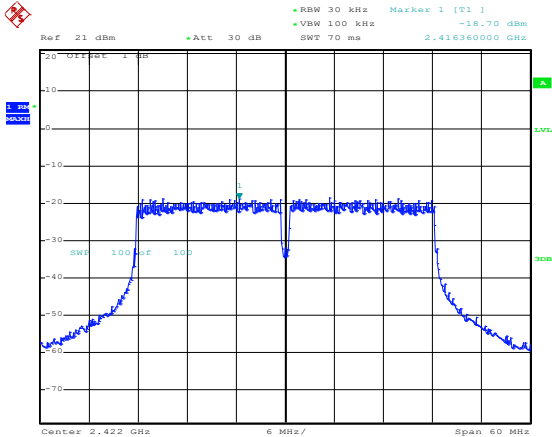
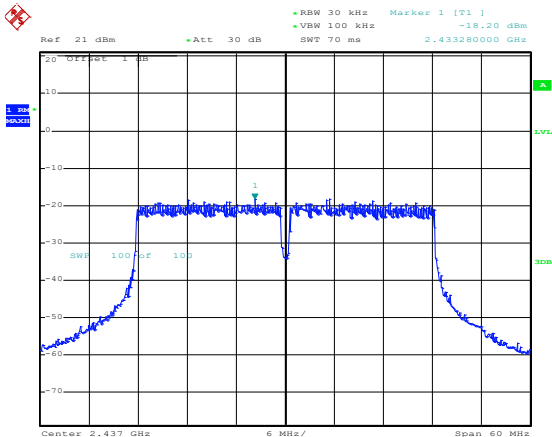
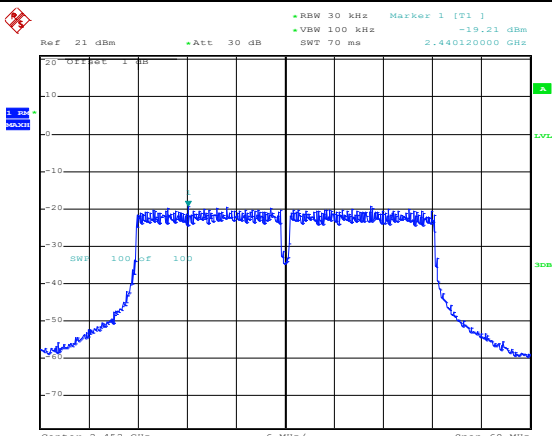
Power Spectral Density					
Test Mode	Test Channel MHz	Test Result(dBm/3kHz)		Total dBm	Limit dBm/3kHz
		Antenna 0	Antenna 1		
802.11b_11Mbps	2412	-3.64	-3.43	/	8
	2437	-3.13	-3.04	/	8
	2462	-3.57	-3.54	/	8
802.11g_54Mbps	2412	-14.95	-15.60	/	8
	2437	-14.03	-14.74	/	8
	2462	-15.93	-16.10	/	8
802.11n-HT20_MCS7	2412	-14.65	-14.69	-11.66	8
	2437	-12.42	-15.15	-10.56	8
	2462	-13.82	-15.10	-11.40	8
802.11n-HT40_MCS7	2422	-18.70	-18.40	-15.54	8
	2437	-18.20	-18.84	-15.50	8
	2452	-19.21	-19.93	-16.54	8
802.11ax-HE20_MCS 7	2412	-16.54	-16.60	-13.56	8
	2437	-14.96	-16.44	-12.63	8
	2462	-15.74	-16.07	-12.89	8
802.11ax-HE40_MCS 7	2422	-19.32	-18.76	-16.02	8
	2437	-19.77	-20.46	-17.09	8
	2452	-20.45	-21.44	-17.91	8

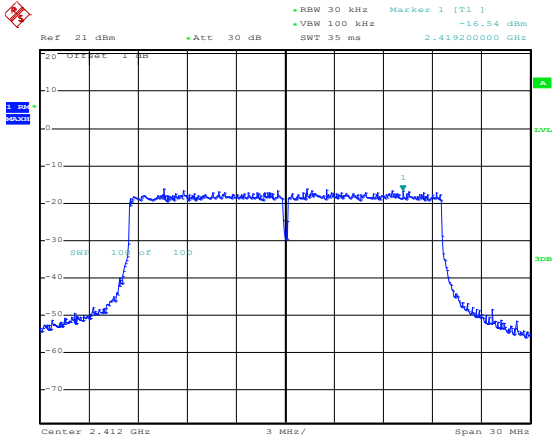
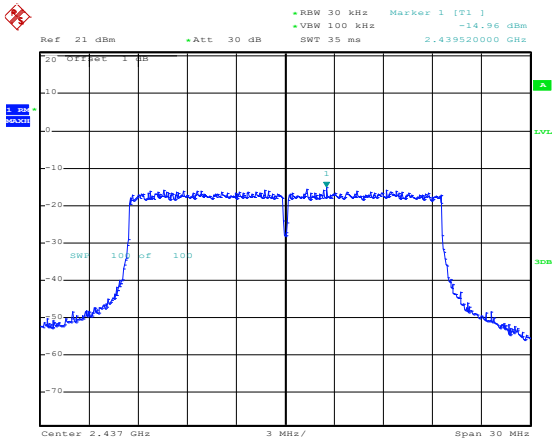
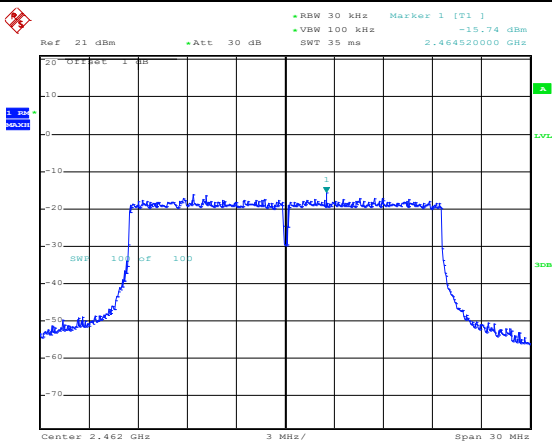
Antenna 0

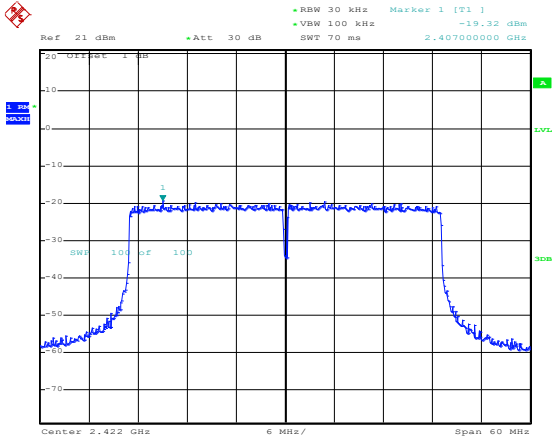
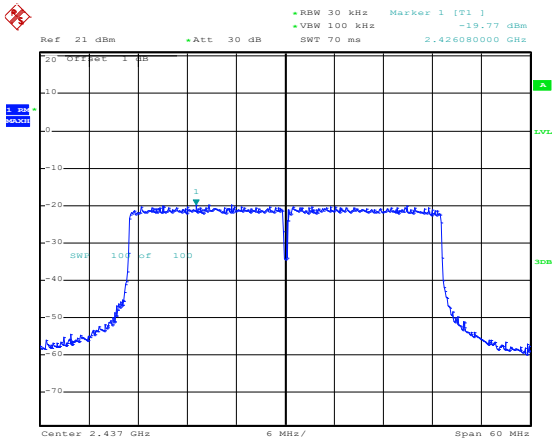
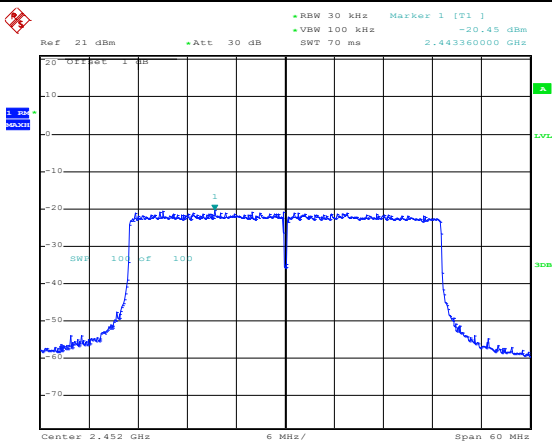
802.11b-Low	 Date: 28.MAR.2022 12:43:10
802.11b-Middle	 Date: 28.MAR.2022 12:43:32
802.11b-High	 Date: 28.MAR.2022 12:47:58

802.11g-Low	 Ref 21 dBm Att 30 dB RBW 30 kHz VSW 100 kHz SWT 35 ms Span 30 MHz Center 2.412 GHz 3 MHz/ 30 dB Marker 1 [T1] -14.95 dBm 2.414520000 GHz Date: 28.MAR.2022 12:49:32
802.11g-Middle	 Ref 21 dBm Att 30 dB RBW 30 kHz VSW 100 kHz SWT 35 ms Span 30 MHz Center 2.437 GHz 3 MHz/ 30 dB Marker 1 [T1] -14.03 dBm 2.440780000 GHz Date: 28.MAR.2022 12:51:05
802.11g-High	 Ref 21 dBm Att 30 dB RBW 30 kHz VSW 100 kHz SWT 35 ms Span 30 MHz Center 2.462 GHz 3 MHz/ 30 dB Marker 1 [T1] -15.95 dBm 2.460140000 GHz Date: 28.MAR.2022 12:51:36

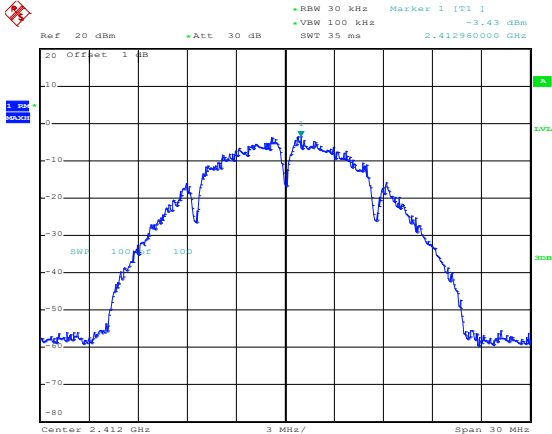
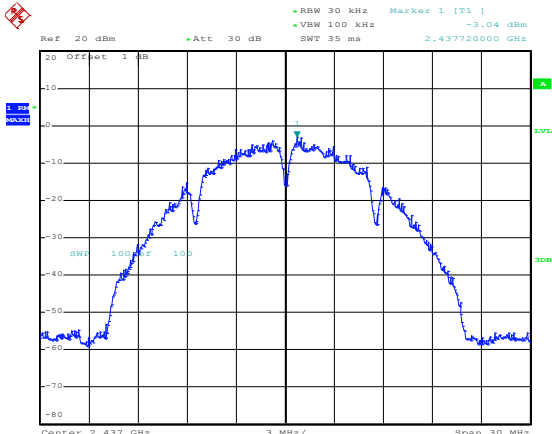
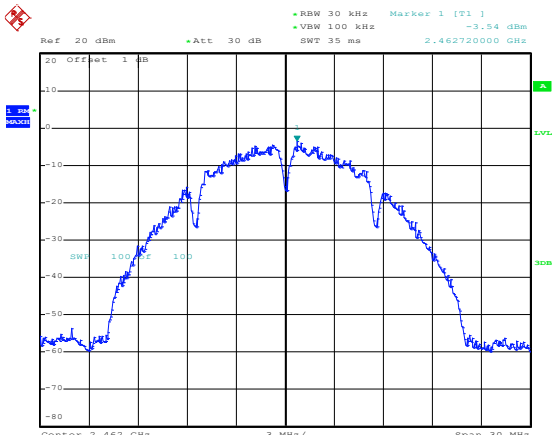
802.11n-HT20-Low	 Ref 21 dBm Att 30 dB RBW 30 kHz Marker 1 [T1] -14.65 dBm VSW 100 kHz SWT 35 ms 2.404560000 GHz Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 12:55:52
802.11n-HT20-Middle	 Ref 21 dBm Att 30 dB RBW 30 kHz Marker 1 [T1] -12.42 dBm VSW 100 kHz SWT 35 ms 2.429560000 GHz Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 12:57:10
802.11n-HT20-High	 Ref 21 dBm Att 30 dB RBW 30 kHz Marker 1 [T1] -13.82 dBm VSW 100 kHz SWT 35 ms 2.462660000 GHz Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 12:57:54

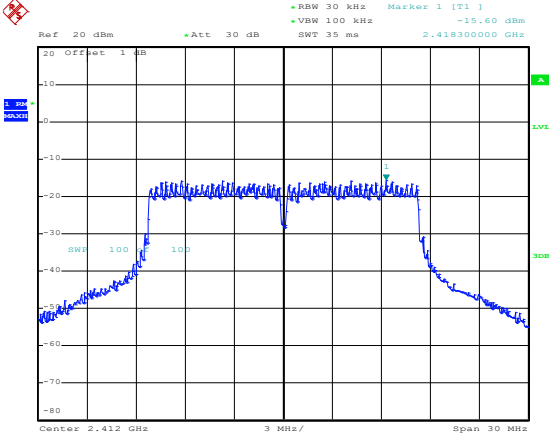
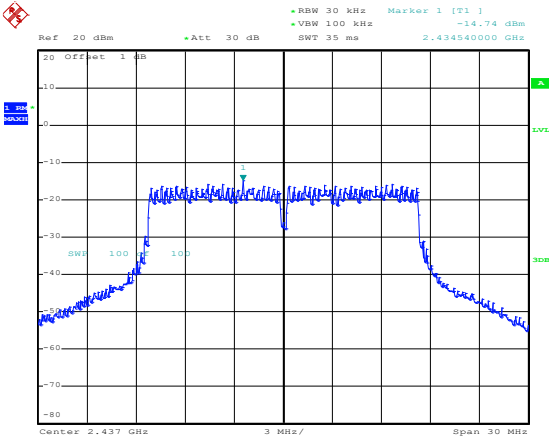
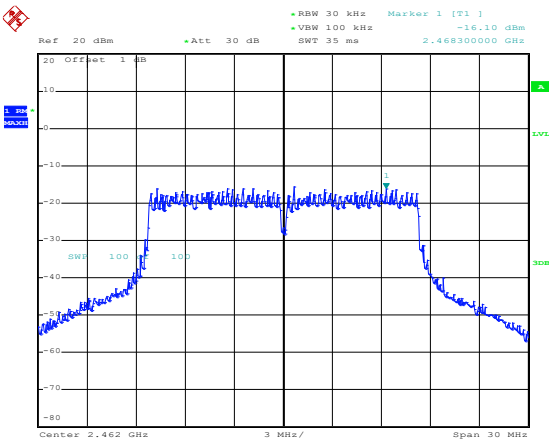
802.11n-HT40-Low	 Ref: 21 dBm +Att: 30 dB RBW 30 kHz Marker 1 [T1] -18.70 dBm VBW 100 kHz SWT 70 ms 2.416360000 GHz Center 2.422 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 13:01:57
802.11n-HT40-Middle	 Ref: 21 dBm +Att: 30 dB RBW 30 kHz Marker 1 [T1] -18.20 dBm VBW 100 kHz SWT 70 ms 2.433280000 GHz Center 2.437 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 13:02:25
802.11n-HT40-High	 Ref: 21 dBm +Att: 30 dB RBW 30 kHz Marker 1 [T1] -19.21 dBm VBW 100 kHz SWT 70 ms 2.440120000 GHz Center 2.452 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 13:02:56

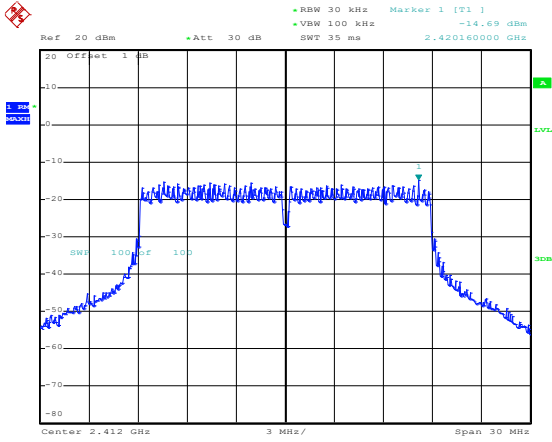
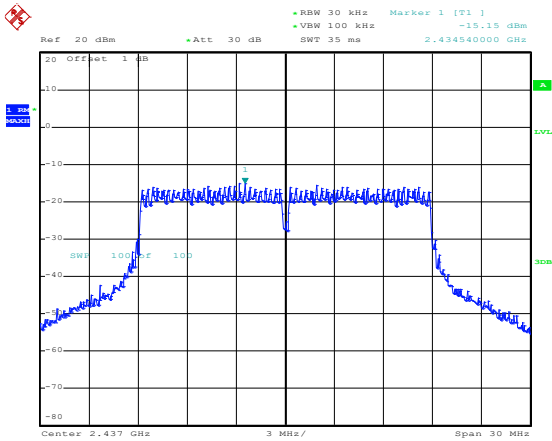
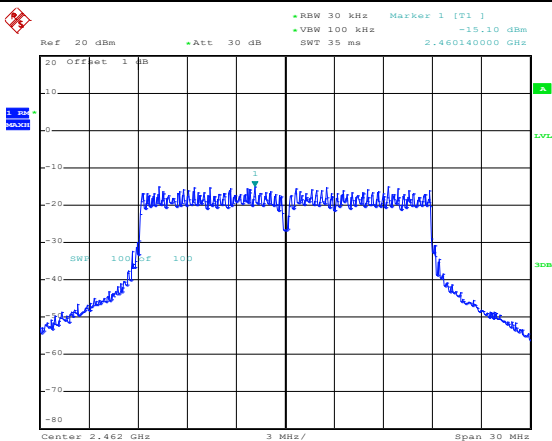
802.11ax-HE20-Low	 Ref: 21 dBm +Att: 30 dB +RBW 30 kHz Marker 1 [T1] -16.54 dBm +VBW 100 kHz SWT 35 ms 2.419200000 GHz Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 12:59:14
802.11ax-HE20-Middle	 Ref: 21 dBm +Att: 30 dB +RBW 30 kHz Marker 1 [T1] -14.96 dBm +VBW 100 kHz SWT 35 ms 2.439520000 GHz Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 12:59:47
802.11ax-HE20-High	 Ref: 21 dBm +Att: 30 dB +RBW 30 kHz Marker 1 [T1] -15.74 dBm +VBW 100 kHz SWT 35 ms 2.464520000 GHz Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 13:00:12

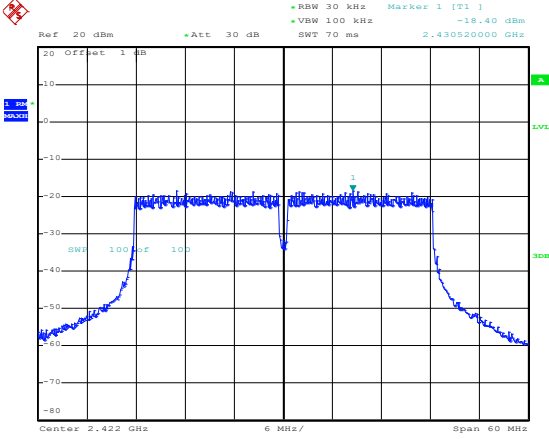
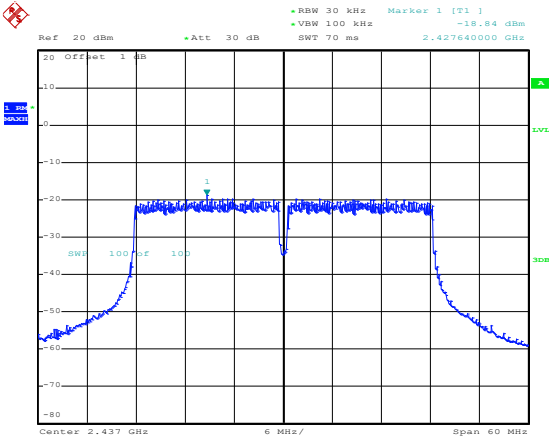
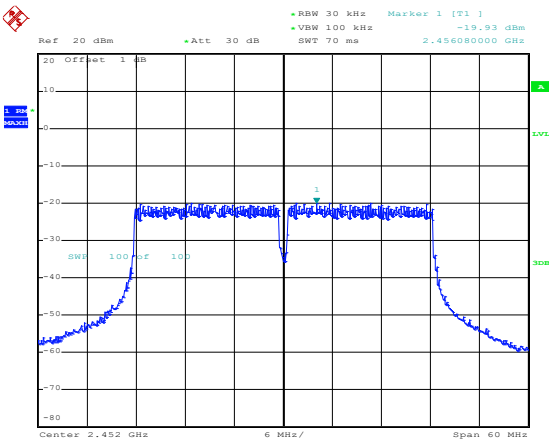
802.11ax-HE40-Low	 Ref: 21 dBm Att: 30 dB RBW 30 kHz Marker 1 [T1] -19.32 dBm VBW 100 kHz SWT 70 ms 2.407000000 GHz Center 2.422 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 13:03:27
802.11ax-HE40-Middle	 Ref: 21 dBm Att: 30 dB RBW 30 kHz Marker 1 [T1] -19.77 dBm VBW 100 kHz SWT 70 ms 2.426000000 GHz Center 2.437 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 13:03:57
802.11ax-HE40-High	 Ref: 21 dBm Att: 30 dB RBW 30 kHz Marker 1 [T1] -20.45 dBm VBW 100 kHz SWT 70 ms 2.443360000 GHz Center 2.452 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 13:04:39

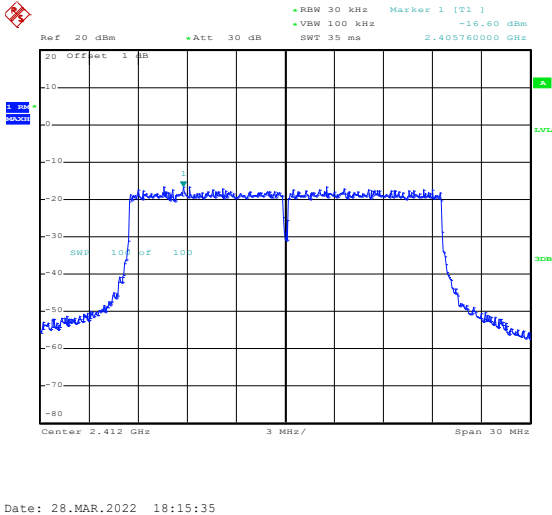
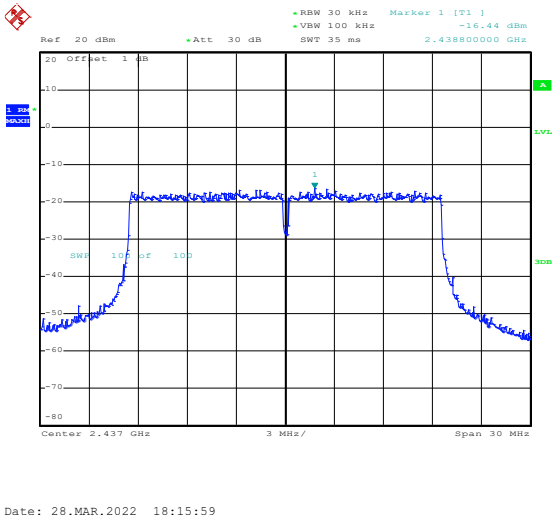
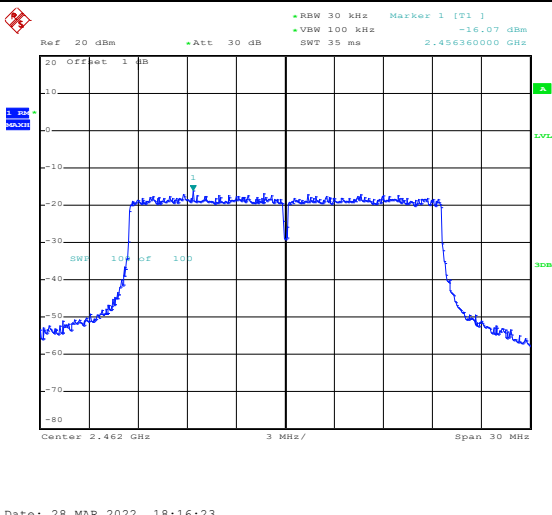
Antenna 1

802.11b-Low	 Date: 28.MAR.2022 18:08:41
802.11b-Middle	 Date: 28.MAR.2022 18:09:44
802.11b-High	 Date: 28.MAR.2022 18:10:08

802.11g-Low	 Date: 28.MAR.2022 18:11:30
802.11g-Middle	 Date: 28.MAR.2022 18:12:29
802.11g-High	 Date: 28.MAR.2022 18:12:51

802.11n-HT20-Low	 Ref 20 dBm Att 30 dB RBW 30 kHz Marker 1 [T1] -14.69 dBm VBW 100 kHz SWT 35 ms 2.420160000 GHz 20 Offset 1 dB Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 18:13:28
802.11n-HT20-Middle	 Ref 20 dBm Att 30 dB RBW 30 kHz Marker 1 [T1] -15.15 dBm VBW 100 kHz SWT 35 ms 2.434540000 GHz 20 Offset 1 dB Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 18:14:41
802.11n-HT20-High	 Ref 20 dBm Att 30 dB RBW 30 kHz Marker 1 [T1] -15.10 dBm VBW 100 kHz SWT 35 ms 2.460140000 GHz 20 Offset 1 dB Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 28.MAR.2022 18:15:06

802.11n-HT40-Low	 Date: 28.MAR.2022 18:17:29
802.11n-HT40-Middle	 Date: 28.MAR.2022 18:20:16
802.11n-HT40-High	 Date: 28.MAR.2022 18:21:32

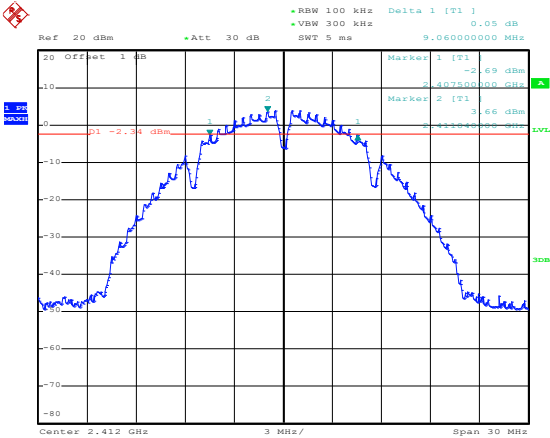
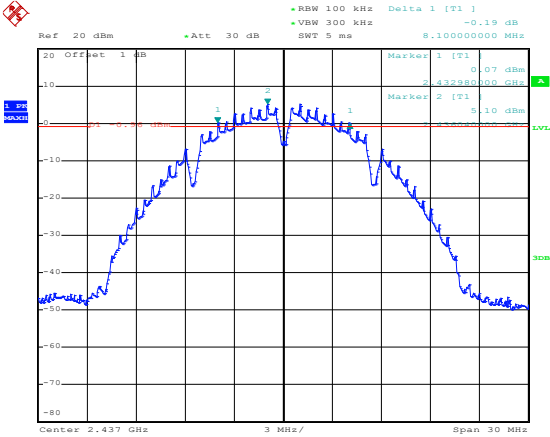
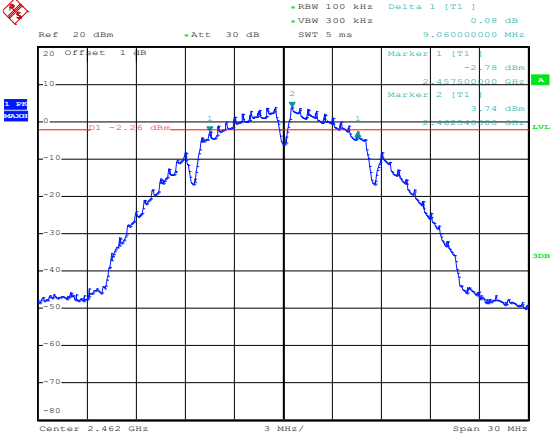
802.11ax-HE20-Low	
802.11ax-HE20-Middle	
802.11ax-HE20-High	

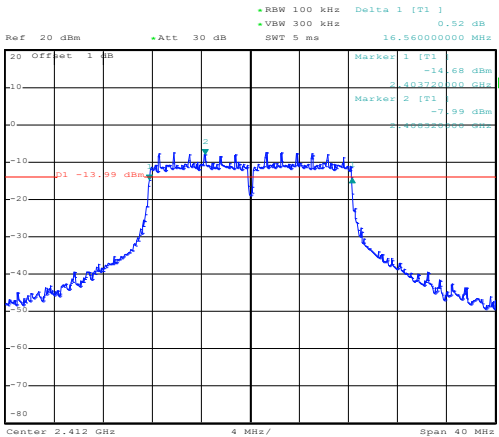
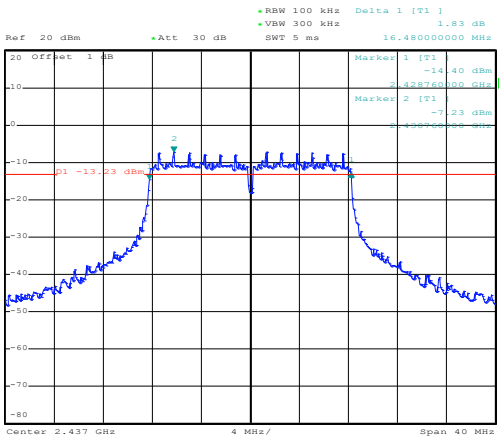
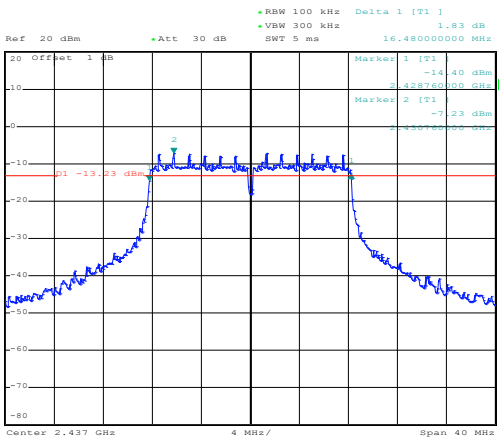
802.11ax-HE40-Low	Ref 20 dBm +Att 30 dB +RBW 30 kHz Marker 1 [T1] -18.76 dBm +VSW 100 kHz SWT 70 ms 2.407000000 GHz 20 Offset 1 dB Center 2.422 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 18:22:37
802.11ax-HE40-Middle	Ref 20 dBm +Att 30 dB +RBW 30 kHz Marker 1 [T1] -20.46 dBm +VSW 100 kHz SWT 70 ms 2.448400000 GHz 20 Offset 1 dB Center 2.437 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 18:23:06
802.11ax-HE40-High	Ref 20 dBm +Att 30 dB +RBW 30 kHz Marker 1 [T1] -21.44 dBm +VSW 100 kHz SWT 70 ms 2.454520000 GHz 20 Offset 1 dB Center 2.452 GHz 6 MHz/ Span 60 MHz Date: 28.MAR.2022 18:23:39

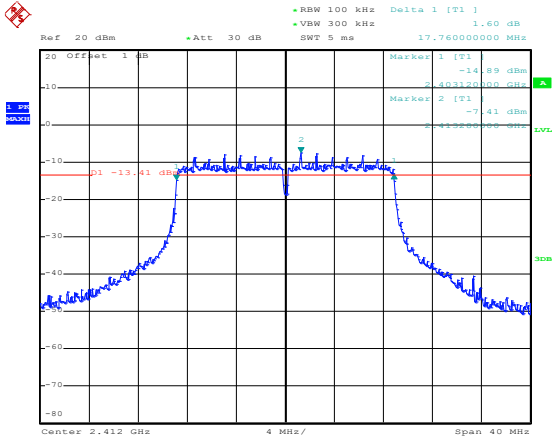
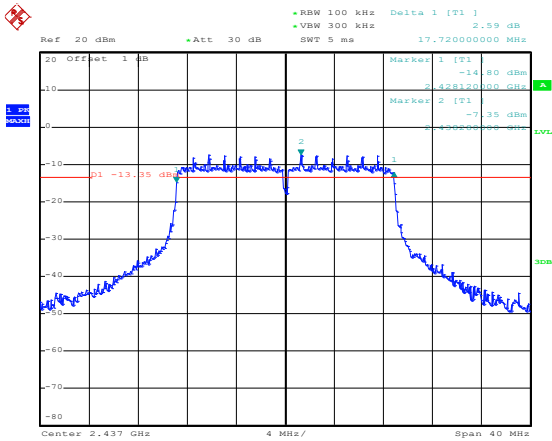
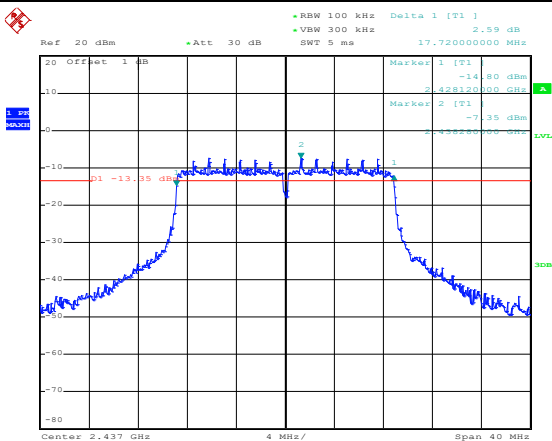
APPENDIX B

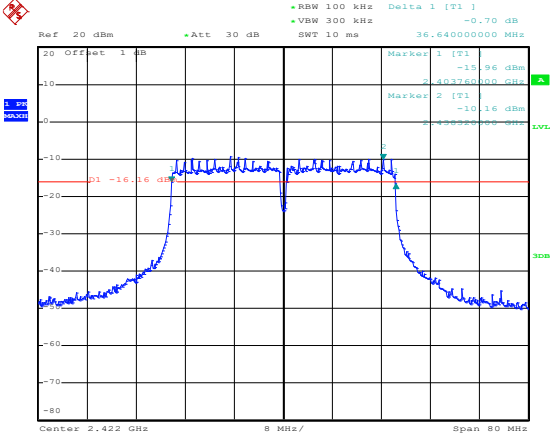
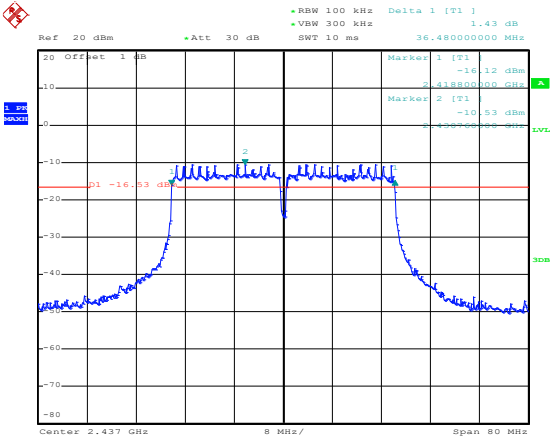
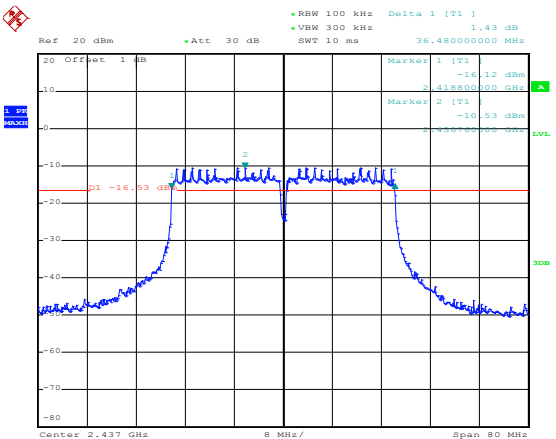
DTS Bandwidth				
Test Mode	Test Channel MHz	Test Result(MHz)		Limit kHz
		Antenna 0	Antenna 1	
802.11b_11Mbps	2412	9.060	9.060	≥500
	2437	8.100	8.10	≥500
	2462	9.060	8.10	≥500
802.11g_54Mbps	2412	16.56	16.56	≥500
	2437	16.48	16.48	≥500
	2462	16.48	16.48	≥500
802.11n-HT20_MCS7	2412	17.76	17.76	≥500
	2437	17.72	17.72	≥500
	2462	17.72	17.72	≥500
802.11n-HT40_MCS7	2422	36.64	36.64	≥500
	2437	36.48	36.48	≥500
	2452	36.48	36.48	≥500
802.11ax-HE20_MCS7	2412	36.48	36.48	≥500
	2437	36.60	36.60	≥500
	2462	36.60	36.60	≥500
802.11ax-HE40_MCS7	2422	38.40	38.40	≥500
	2437	37.92	37.92	≥500
	2452	37.92	37.92	≥500

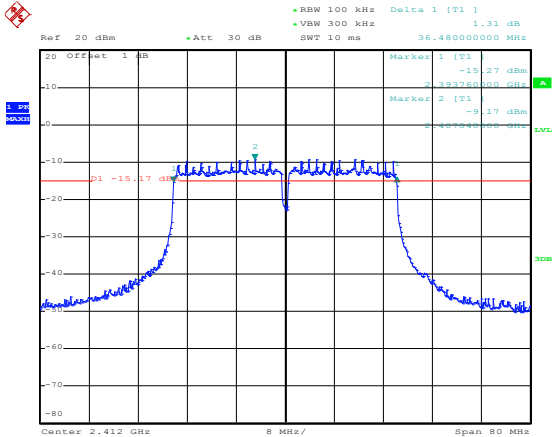
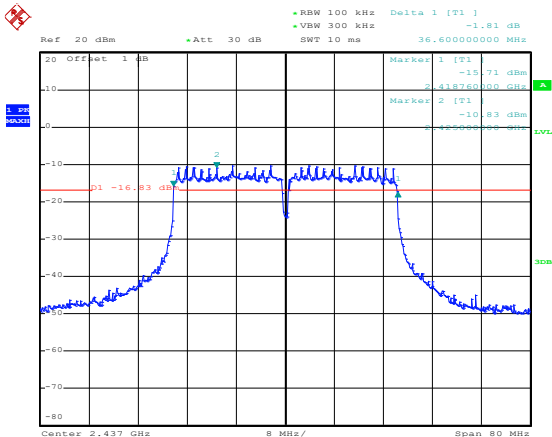
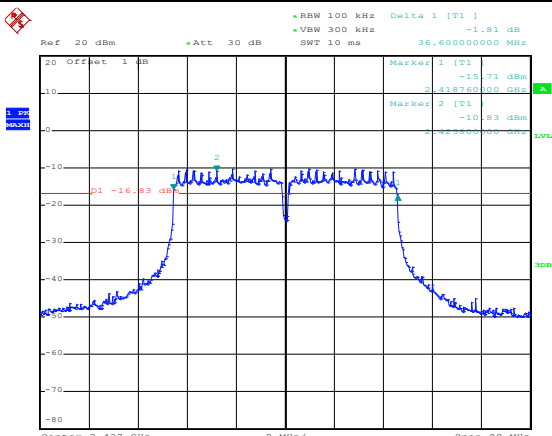
Antenna 0
DTS Bandwidth

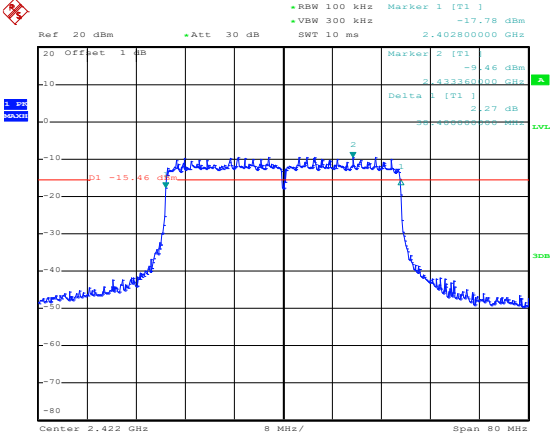
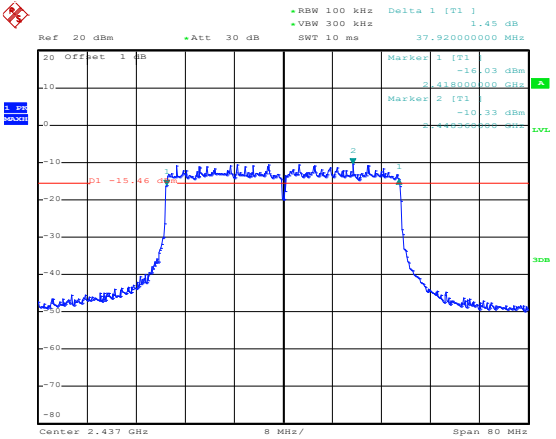
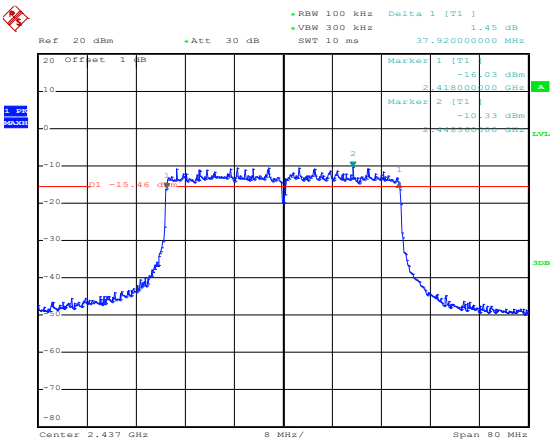
802.11b-Low	 Date: 28.MAR.2022 19:59:04
802.11b-Middle	 Date: 28.MAR.2022 19:57:54
802.11b-High	 Date: 28.MAR.2022 20:00:26

802.11g-Low	 Date: 28.MAR.2022 20:19:33
802.11g-Middle	 Date: 28.MAR.2022 20:21:35
802.11g-High	 Date: 28.MAR.2022 20:21:35

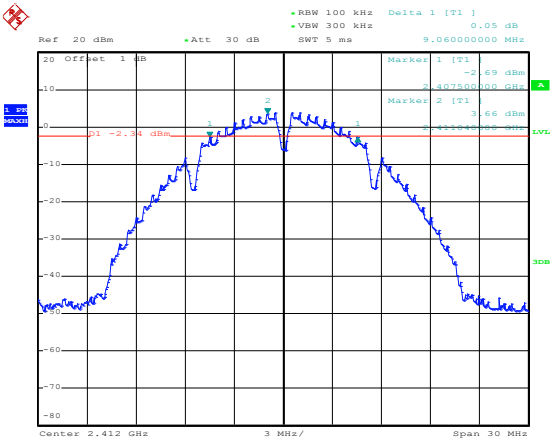
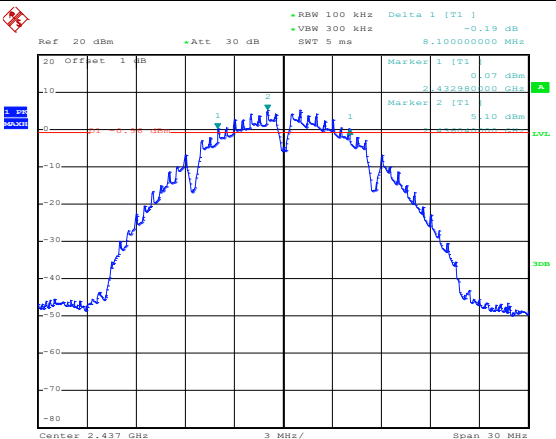
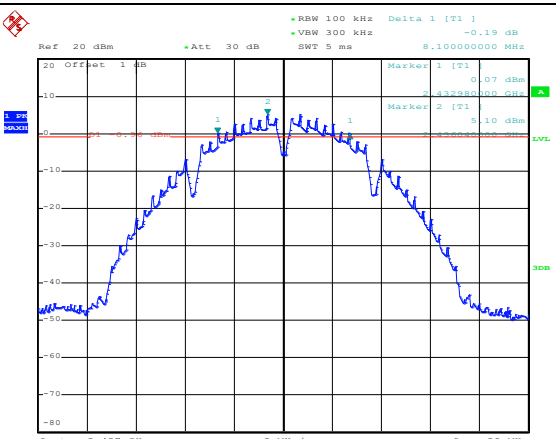
802.11n-HT20-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.60 dB VSW 300 kHz SWT 5 ms 17.760000000 MHz Marker 1 [T1] -14.89 dBm 2.428120000 GHz Marker 2 [T1] -7.41 dBm 2.432000000 GHz Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:23:39
802.11n-HT20-Middle	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 2.59 dB VSW 300 kHz SWT 5 ms 17.720000000 MHz Marker 1 [T1] -14.80 dBm 2.428120000 GHz Marker 2 [T1] -7.35 dBm 2.432000000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:25:27
802.11n-HT20-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 2.59 dB VSW 300 kHz SWT 5 ms 17.720000000 MHz Marker 1 [T1] -14.80 dBm 2.428120000 GHz Marker 2 [T1] -7.35 dBm 2.432000000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:25:27

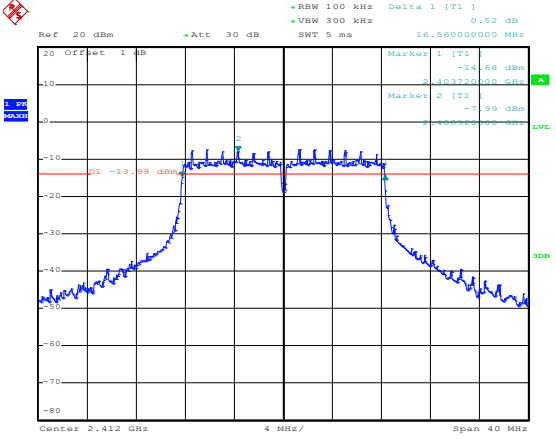
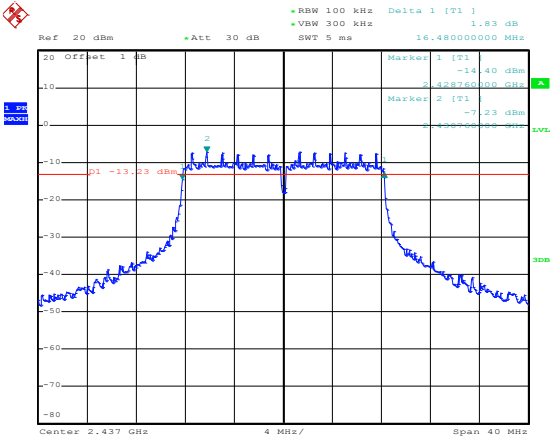
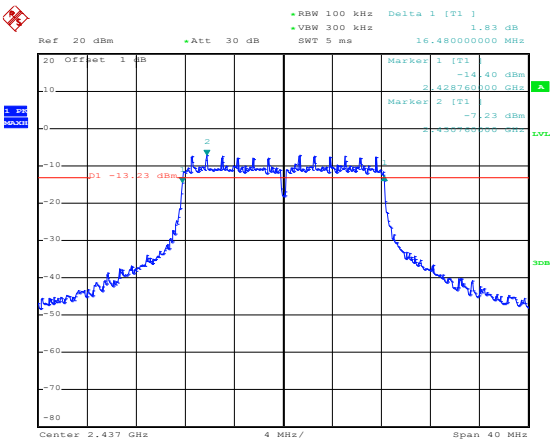
802.11n-HT40-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] -0.70 dB VSW 300 kHz SWT 10 ms 36.64000000 MHz Marker 1 [T1] -15.96 dBm 2.42200000 GHz Marker 2 [T1] -10.16 dBm 2.42200000 GHz Center 2.422 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:31:21
802.11n-HT40-Middle	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.43 dB VSW 300 kHz SWT 10 ms 36.48000000 MHz Marker 1 [T1] -16.12 dBm 2.43800000 GHz Marker 2 [T1] -10.53 dBm 2.43800000 GHz Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:32:08
802.11n-HT40-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.43 dB VSW 300 kHz SWT 10 ms 36.48000000 MHz Marker 1 [T1] -16.12 dBm 2.43800000 GHz Marker 2 [T1] -10.53 dBm 2.43800000 GHz Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:32:08

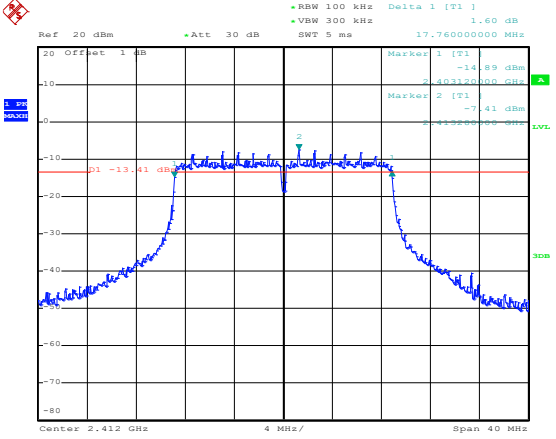
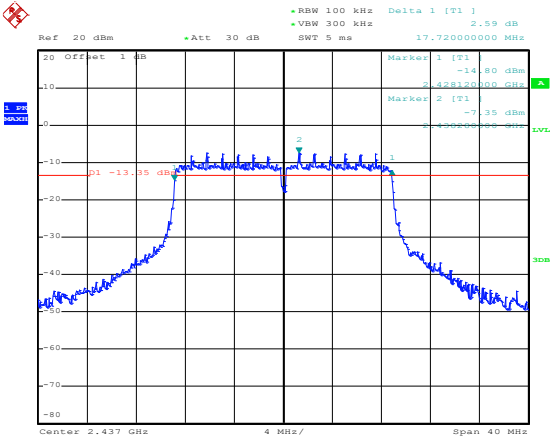
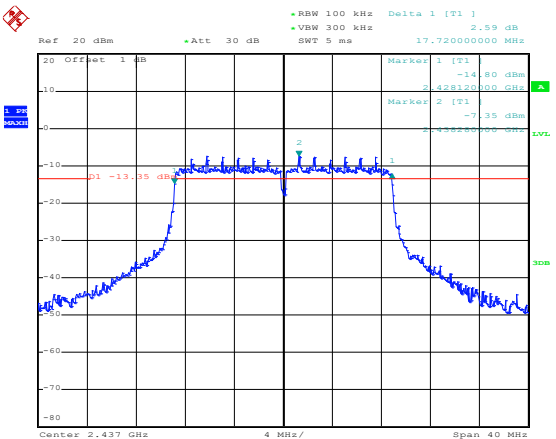
802.11ax-HE20-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.31 dB VSW 300 kHz SWT 10 ms 36.480000000 MHz Marker 1 [T1] -15.17 dBm 2.412760000 GHz Marker 2 [T1] -15.17 dBm 2.412760000 GHz Center 2.412 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:27:29
802.11ax-HE20-Middle	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] -1.81 dB VSW 300 kHz SWT 10 ms 36.600000000 MHz Marker 1 [T1] -15.71 dBm 2.437600000 GHz Marker 2 [T1] -10.83 dBm 2.437600000 GHz Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:28:31
802.11ax-HE20-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] -1.81 dB VSW 300 kHz SWT 10 ms 36.600000000 MHz Marker 1 [T1] -15.71 dBm 2.437600000 GHz Marker 2 [T1] -10.83 dBm 2.437600000 GHz Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:28:31

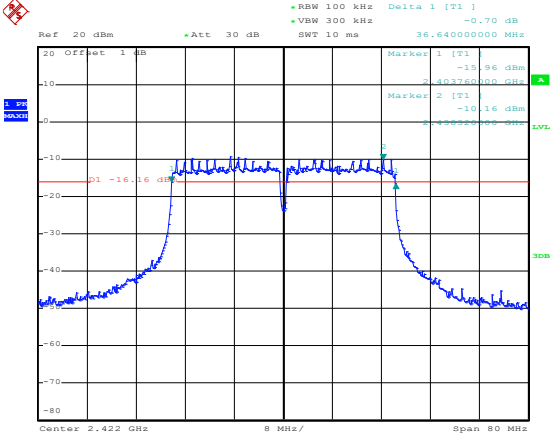
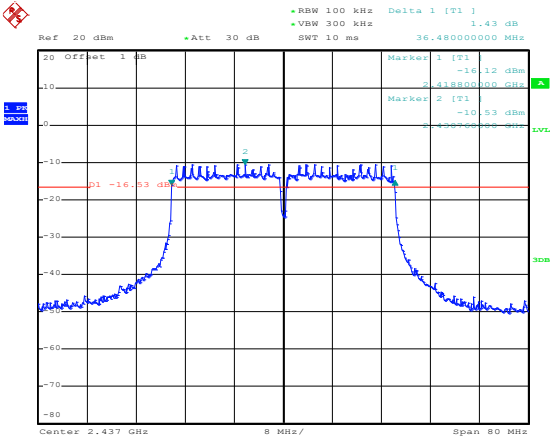
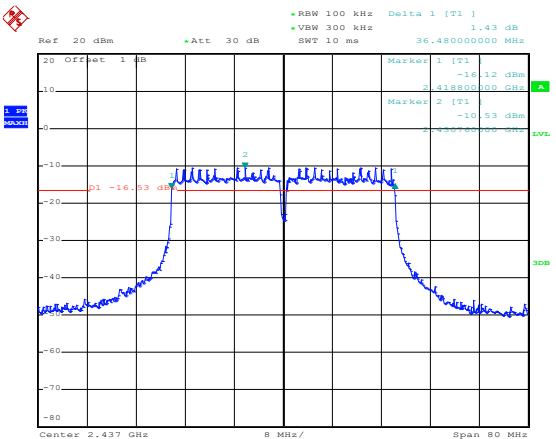
802.11ax-HE40-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Marker 1 [T1] -17.78 dBm VSW 300 kHz 2.402800000 GHz Delta 1 [T1] -9.46 dBm Delta 2 [T1] -10.33 dBm Delta 3 [T1] 2.27 dBm Center 2.422 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:36:25
802.11ax-HE40-Middle	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.45 dB VSW 300 kHz 37.920000000 MHz Marker 1 [T1] -16.03 dBm Marker 2 [T1] -10.33 dBm Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:37:23
802.11ax-HE40-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.45 dB VSW 300 kHz 37.920000000 MHz Marker 1 [T1] -16.03 dBm Marker 2 [T1] -10.33 dBm Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:37:23

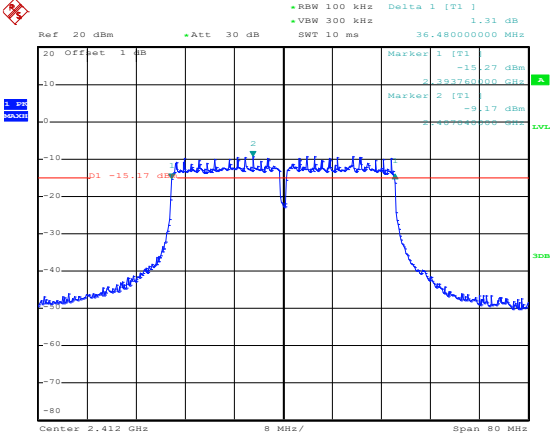
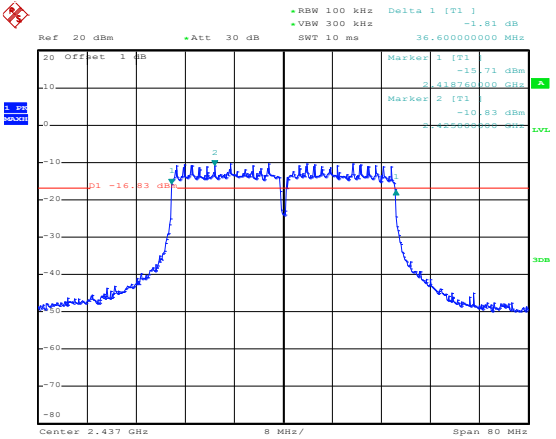
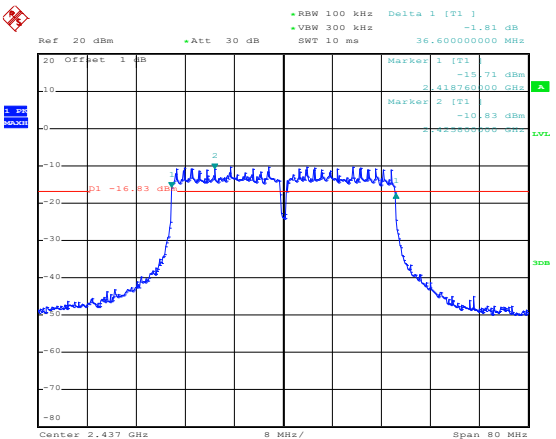
Antenna 1
DTS Bandwidth

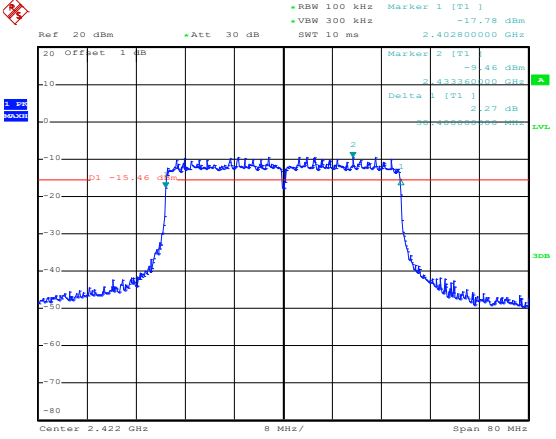
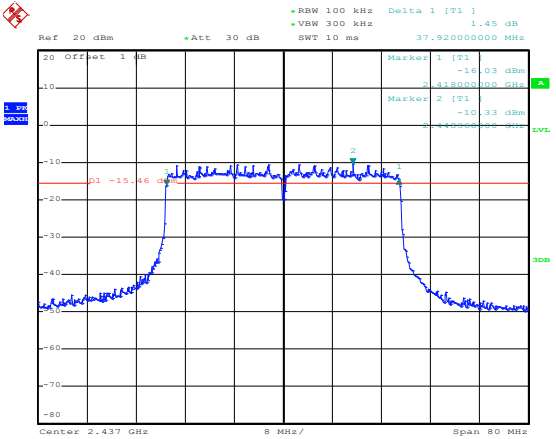
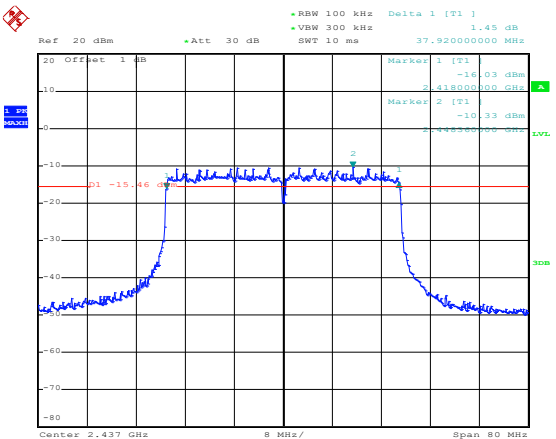
802.11b-Low	 Date: 28.MAR.2022 19:59:04
802.11b-Middle	 Date: 28.MAR.2022 19:57:54
802.11b-High	 Date: 28.MAR.2022 19:57:54

802.11g-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 0.52 dB VSW 300 kHz SWT 5 ms 16.56000000 MHz Marker 1 [T1] -14.68 dBm 2.403750000 GHz Marker 2 [T1] -7.99 dBm 2.430000000 GHz Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:19:33
802.11g-Middle	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.83 dB VSW 300 kHz SWT 5 ms 16.48000000 MHz Marker 1 [T1] -14.40 dBm 2.428750000 GHz Marker 2 [T1] -7.23 dBm 2.430000000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:21:35
802.11g-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.83 dB VSW 300 kHz SWT 5 ms 16.48000000 MHz Marker 1 [T1] -14.40 dBm 2.428750000 GHz Marker 2 [T1] -7.23 dBm 2.430000000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:21:35

802.11n-HT20-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.60 dB VSW 300 kHz SWT 5 ms 17.760000000 MHz Marker 1 [T1] -14.89 dBm 2.428120000 GHz Marker 2 [T1] -7.41 dBm 2.432000000 GHz Center 2.412 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:23:39
802.11n-HT20-Middle	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 2.59 dB VSW 300 kHz SWT 5 ms 17.720000000 MHz Marker 1 [T1] -14.80 dBm 2.428120000 GHz Marker 2 [T1] -7.35 dBm 2.432000000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:25:27
802.11n-HT20-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 2.59 dB VSW 300 kHz SWT 5 ms 17.720000000 MHz Marker 1 [T1] -14.80 dBm 2.428120000 GHz Marker 2 [T1] -7.35 dBm 2.432000000 GHz Center 2.437 GHz 4 MHz/ Span 40 MHz Date: 28.MAR.2022 20:25:27

802.11n-HT40-Low	 Date: 28.MAR.2022 20:31:21
802.11n-HT40-Middle	 Date: 28.MAR.2022 20:32:08
802.11n-HT40-High	 Date: 28.MAR.2022 20:32:08

802.11ax-HE20-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.31 dB VSW 300 kHz SWT 10 ms 36.48000000 MHz Marker 1 [T1] -15.27 dBm 2.412760000 GHz Marker 2 [T1] -9.17 dBm 2.480000000 GHz Center 2.412 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:27:29
802.11ax-HE20-Middle	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] -1.81 dB VSW 300 kHz SWT 10 ms 36.60000000 MHz Marker 1 [T1] -15.71 dBm 2.437600000 GHz Marker 2 [T1] -10.83 dBm 2.500000000 GHz Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:28:31
802.11ax-HE20-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] -1.81 dB VSW 300 kHz SWT 10 ms 36.60000000 MHz Marker 1 [T1] -15.71 dBm 2.437600000 GHz Marker 2 [T1] -10.83 dBm 2.500000000 GHz Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:28:31

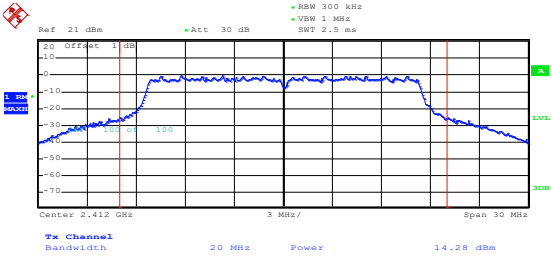
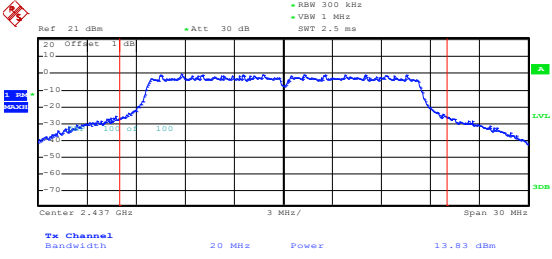
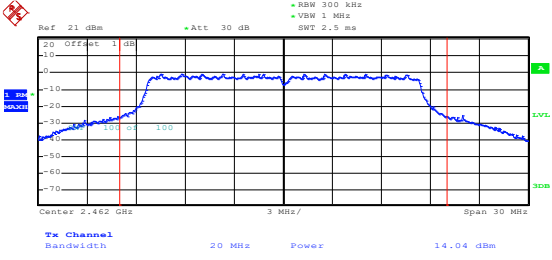
802.11ax-HE40-Low	 Ref 20 dBm +Att 30 dB RBW 100 kHz Marker 1 [T1] -17.78 dBm VSW 300 kHz 2.402800000 GHz Delta 1 [T1] -9.46 dBm Delta 2 [T1] 2.27 dBm Center 2.422 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:36:25
802.11ax-HE40-Middle	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.45 dB VSW 300 kHz 37.920000000 MHz Marker 1 [T1] -16.03 dBm Marker 2 [T1] -10.33 dBm Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:37:23
802.11ax-HE40-High	 Ref 20 dBm +Att 30 dB RBW 100 kHz Delta 1 [T1] 1.45 dB VSW 300 kHz 37.920000000 MHz Marker 1 [T1] -16.03 dBm Marker 2 [T1] -10.33 dBm Center 2.437 GHz 8 MHz/ Span 80 MHz Date: 28.MAR.2022 20:37:23

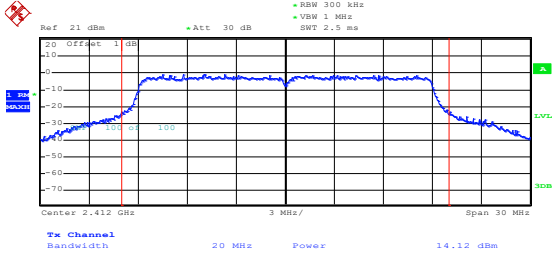
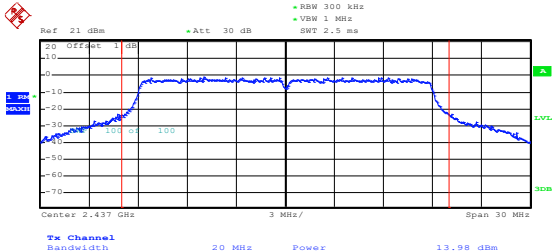
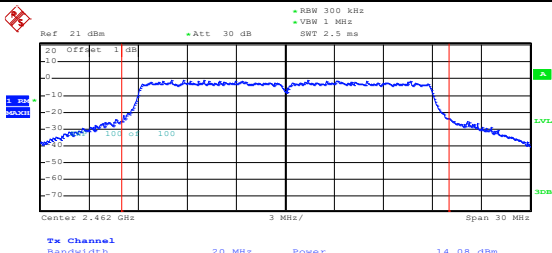
APPENDIX C

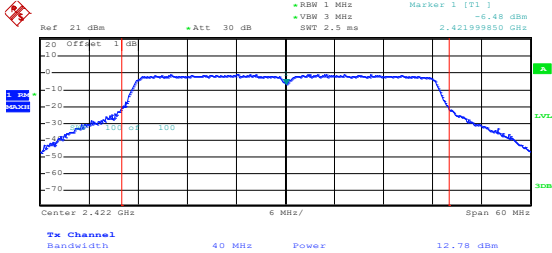
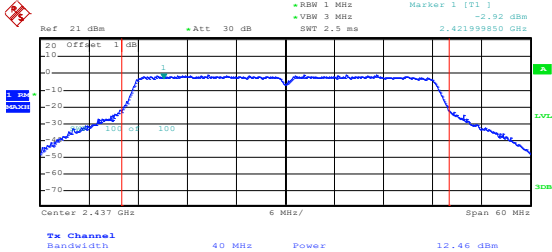
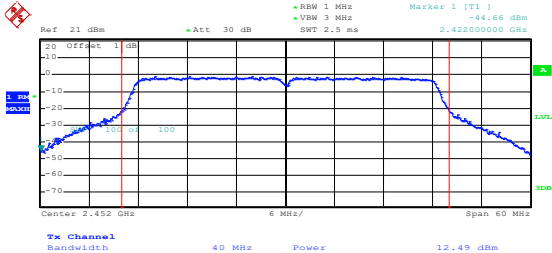
RF Output Power					
Test Mode	Frequency MHz	Antenna 0 dBm	Antenna 1 dBm	Total Power dBm	Limit dBm
802.11b _11Mbps	2412	17.89	18.01	/	30.00
	2437	17.63	17.69	/	30.00
	2462	17.54	17.57	/	30.00
802.11g _54Mbps	2412	14.28	14.13	/	30.00
	2437	13.83	13.91	/	30.00
	2462	14.04	14.17	/	30.00
802.11n HT20_MCS7	2412	14.12	14.04	17.09	30.00
	2437	13.98	14.09	17.05	30.00
	2462	14.08	14.27	17.19	30.00
802.11n HT40_MCS7	2422	12.78	12.36	15.59	30.00
	2437	12.46	12.43	15.46	30.00
	2452	12.49	12.35	15.43	30.00
802.11ax-HE20_MCS11	2412	14.81	14.80	17.82	30.00
	2437	14.40	14.58	17.50	30.00
	2462	14.40	14.72	17.57	30.00
802.11ax-HE40_MCS11	2422	9.35	10.00	12.70	30.00
	2437	9.21	9.83	12.54	30.00
	2452	9.17	9.83	12.52	30.00

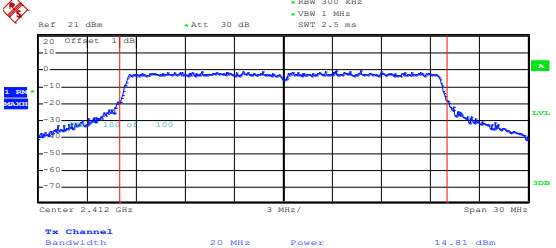
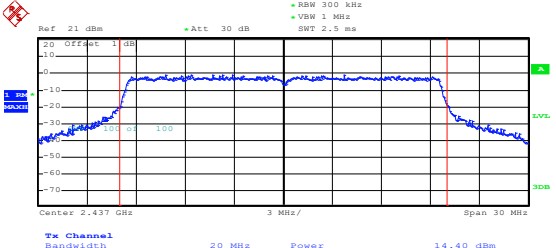
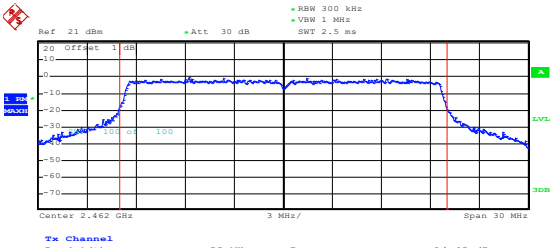
Antenna 0

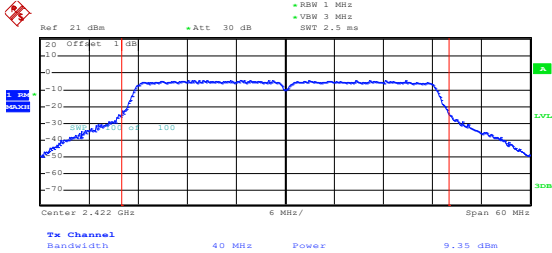
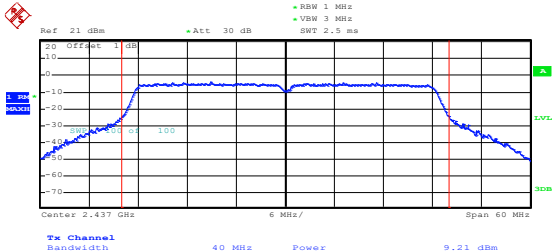
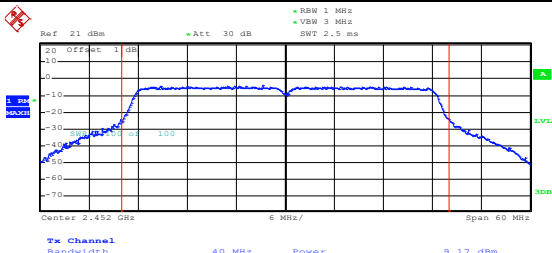
802.11b-Low	Date: 13.APR.2022 12:16:43
802.11b-Middle	Date: 13.APR.2022 12:17:05
802.11b-High	Date: 13.APR.2022 12:17:21

802.11g-Low	 Ref: 21 dBm Att: 30 dB RBW: 300 kHz VSW: 1 MHz SWT: 2.5 ms Center: 2.412 GHz Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 14.28 dBm Date: 13.APR.2022 12:17:49
802.11g-Middle	 Ref: 21 dBm Att: 30 dB RBW: 300 kHz VSW: 1 MHz SWT: 2.5 ms Center: 2.437 GHz Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 13.83 dBm Date: 13.APR.2022 12:18:04
802.11g-High	 Ref: 21 dBm Att: 30 dB RBW: 300 kHz VSW: 1 MHz SWT: 2.5 ms Center: 2.462 GHz Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 14.04 dBm Date: 13.APR.2022 12:18:17

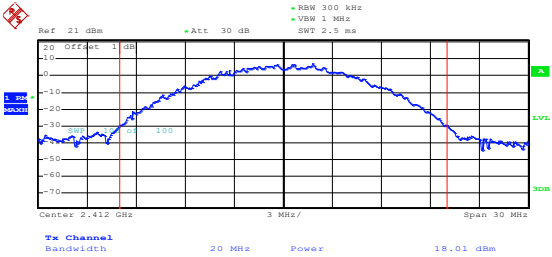
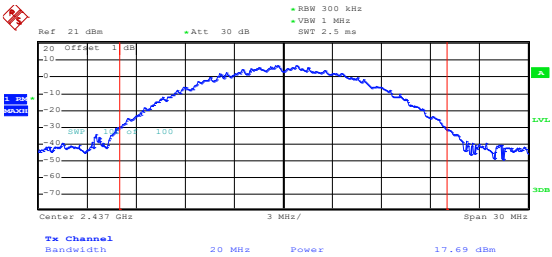
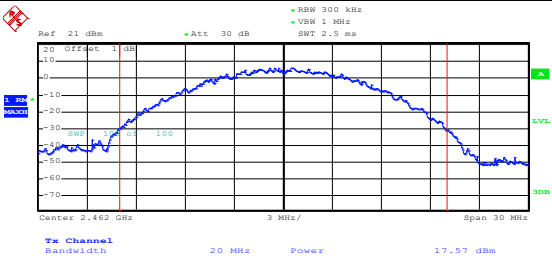
802.11n-HT20-Low	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.412 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 14.12 dBm Date: 13.APR.2022 12:19:15
802.11n-HT20-Middle	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.437 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 13.98 dBm Date: 13.APR.2022 12:19:31
802.11n-HT20-High	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.462 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 14.08 dBm Date: 13.APR.2022 12:19:40

802.11n-HT40-Low	 Date: 14.APR.2022 10:59:55
802.11n-HT40-Middle	 Date: 14.APR.2022 11:00:20
802.11n-HT40-High	 Date: 14.APR.2022 11:00:51

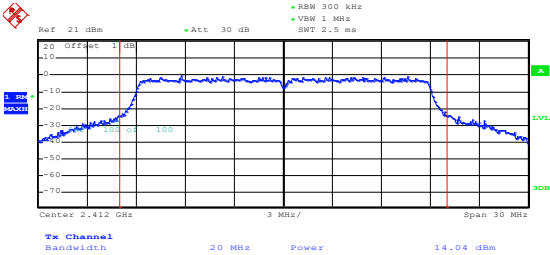
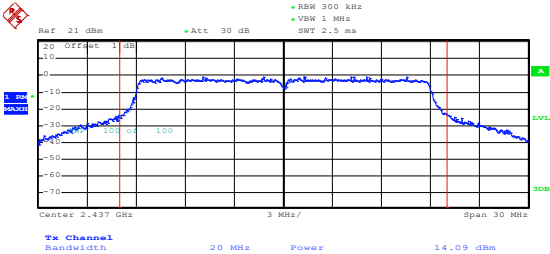
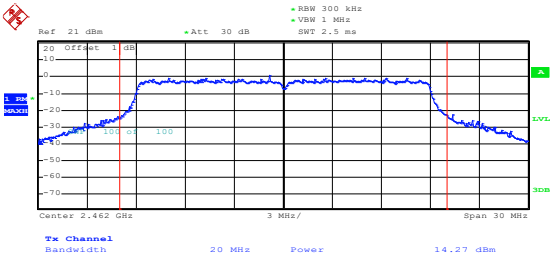
802.11ax-HE20-Low	 Ref: 21 dBm Att: 30 dB RBW: 300 kHz VSW: 1 MHz SWT: 2.5 ms Center 2.412 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 14.81 dBm Date: 13.APR.2022 12:20:29
802.11ax-HE20-Middle	 Ref: 21 dBm Att: 30 dB RBW: 300 kHz VSW: 1 MHz SWT: 2.5 ms Center 2.437 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 14.40 dBm Date: 13.APR.2022 12:20:45
802.11ax-HE20-High	 Ref: 21 dBm Att: 30 dB RBW: 300 kHz VSW: 1 MHz SWT: 2.5 ms Center 2.462 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 14.40 dBm Date: 13.APR.2022 12:20:55

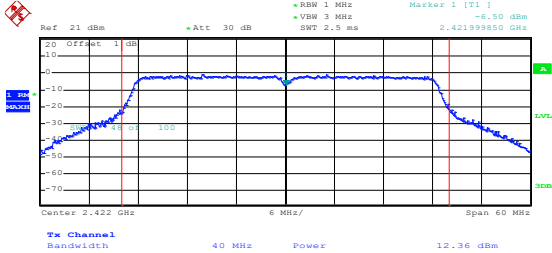
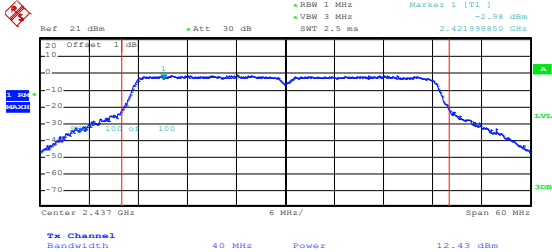
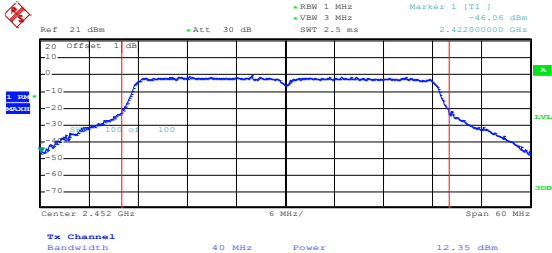
802.11ax-HE40-Low	 Ref: 21 dBm +Att: 30 dB +RBW: 1 MHz +VSW: 3 MHz +SWT: 2.5 ms Center: 2.422 GHz 6 MHz/ Span: 60 MHz Tx Channel Bandwidth: 40 MHz Power: 9.35 dBm Date: 13.APR.2022 12:22:58
802.11ax-HE40-Middle	 Ref: 21 dBm +Att: 30 dB +RBW: 1 MHz +VSW: 3 MHz +SWT: 2.5 ms Center: 2.437 GHz 6 MHz/ Span: 60 MHz Tx Channel Bandwidth: 40 MHz Power: 9.21 dBm Date: 13.APR.2022 12:23:11
802.11ax-HE40-High	 Ref: 21 dBm +Att: 30 dB +RBW: 1 MHz +VSW: 3 MHz +SWT: 2.5 ms Center: 2.452 GHz 6 MHz/ Span: 60 MHz Tx Channel Bandwidth: 40 MHz Power: 9.17 dBm Date: 13.APR.2022 12:23:22

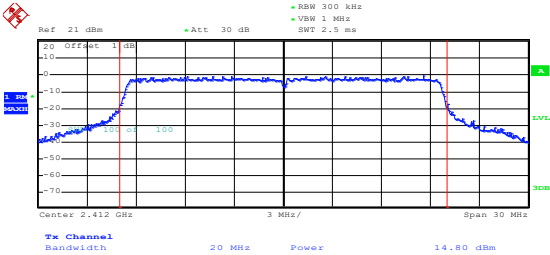
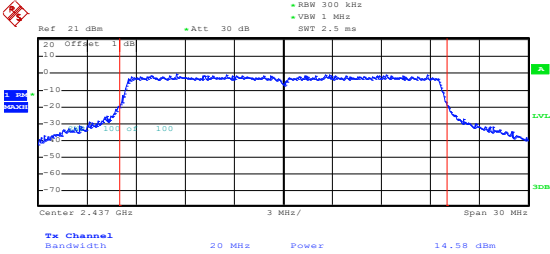
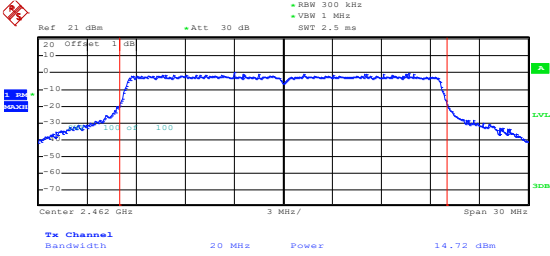
Antenna 1

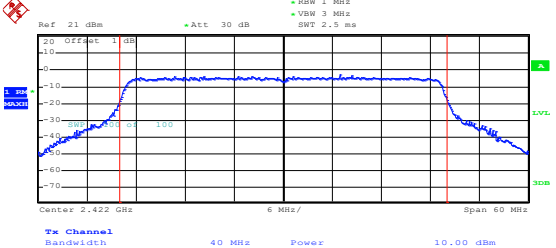
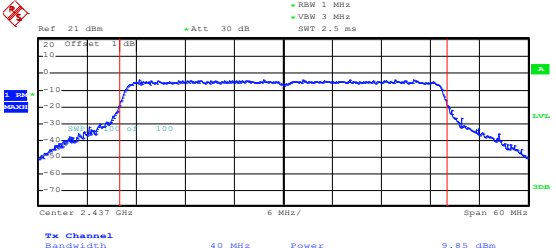
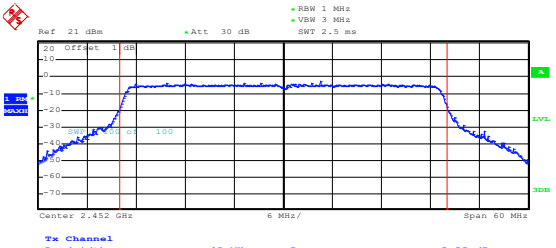
802.11b-Low	 Date: 13.APR.2022 12:24:42
802.11b-Middle	 Date: 13.APR.2022 12:24:59
802.11b-High	 Date: 13.APR.2022 12:25:07

802.11g-Low	Date: 13.APR.2022 12:25:37
802.11g-Middle	Date: 13.APR.2022 12:25:53
802.11g-High	Date: 13.APR.2022 12:26:01

802.11n-HT20-Low	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.412 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 14.04 dBm Date: 13.APR.2022 12:26:18
802.11n-HT20-Middle	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.437 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 14.09 dBm Date: 13.APR.2022 12:26:29
802.11n-HT20-High	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.462 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth: 20 MHz Power: 14.27 dBm Date: 13.APR.2022 12:26:40

802.11n-HT40-Low	 Date: 14.APR.2022 11:00:00
802.11n-HT40-Middle	 Date: 14.APR.2022 11:00:25
802.11n-HT40-High	 Date: 14.APR.2022 11:00:56

802.11ax-HE20-Low	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.412 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth 20 MHz Power 14.80 dBm Date: 13.APR.2022 12:26:59
802.11ax-HE20-Middle	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.437 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth 20 MHz Power 14.58 dBm Date: 13.APR.2022 12:27:08
802.11ax-HE20-High	 Ref: 21 dBm +Att: 30 dB +RBW: 300 kHz +VSW: 1 MHz +SWT: 2.5 ms Center: 2.462 GHz 3 MHz/ Span: 30 MHz Tx Channel Bandwidth 20 MHz Power 14.72 dBm Date: 13.APR.2022 12:27:24

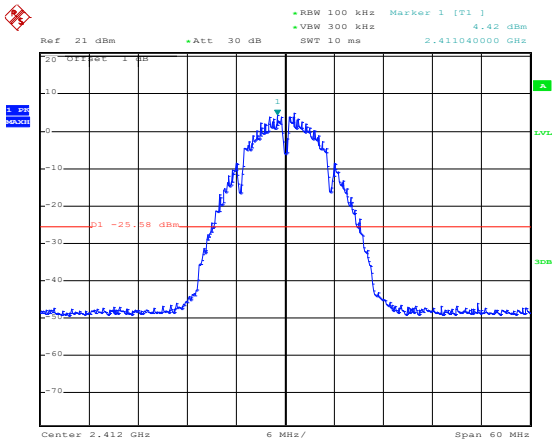
802.11ax-HE40-Low	 Date: 13.APR.2022 12:28:27
802.11ax-HE40-Middle	 Date: 13.APR.2022 12:28:36
802.11ax-HE40-High	 Date: 13.APR.2022 12:28:48

APPENDIX D

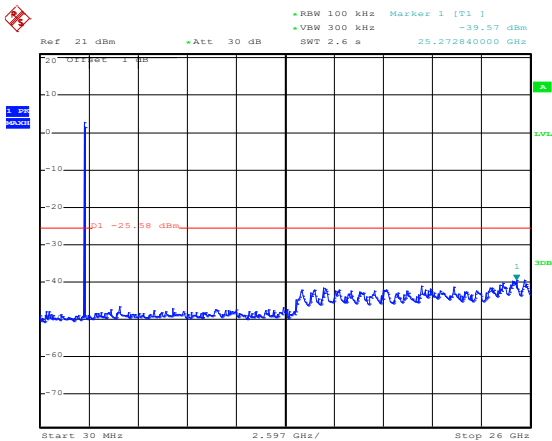
Conducted Out of Band Emissions

Antenna 0

802.11b-Low

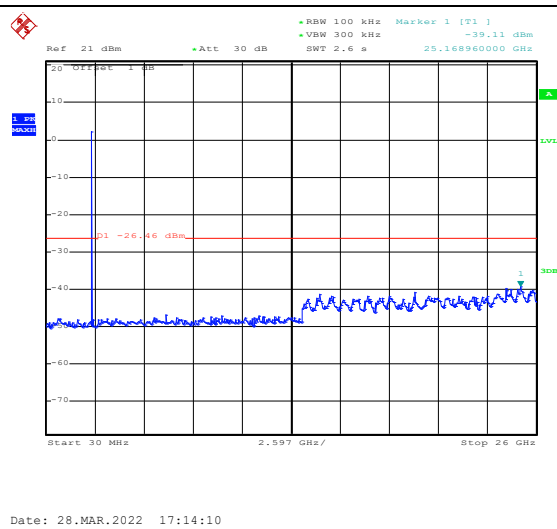
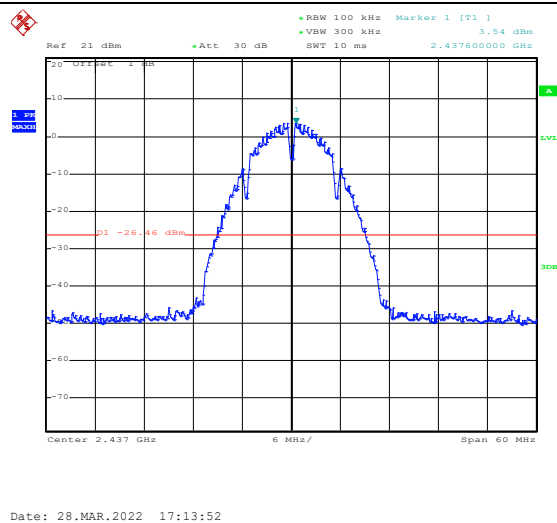


Date: 28.MAR.2022 17:12:57

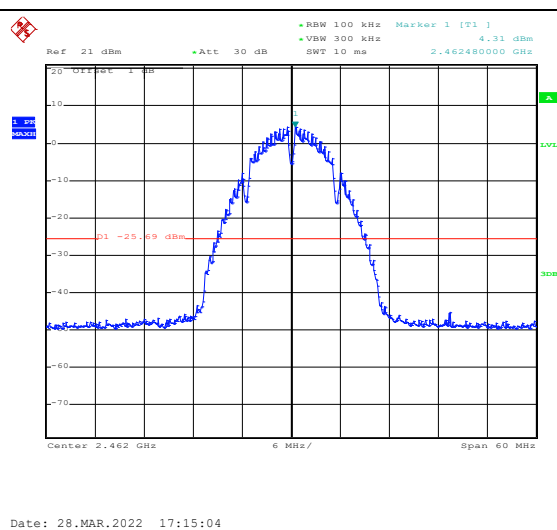


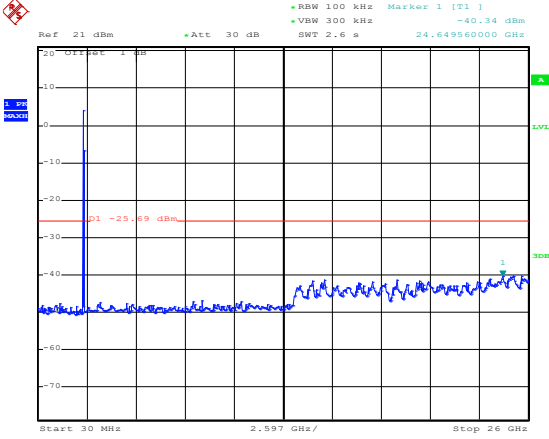
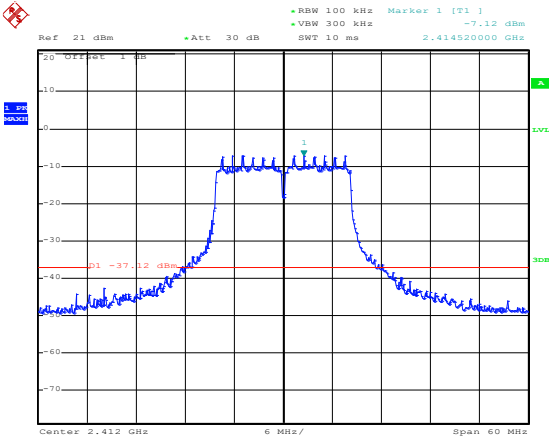
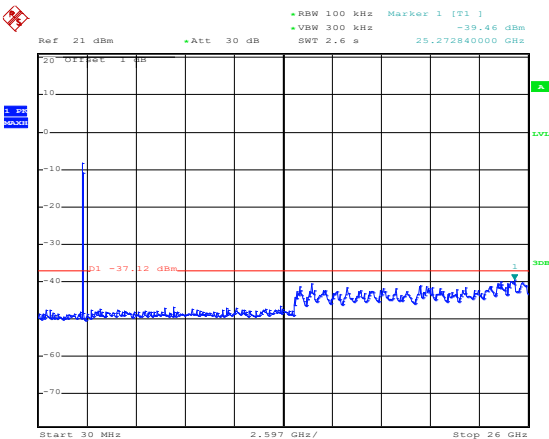
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802.11b-Middle

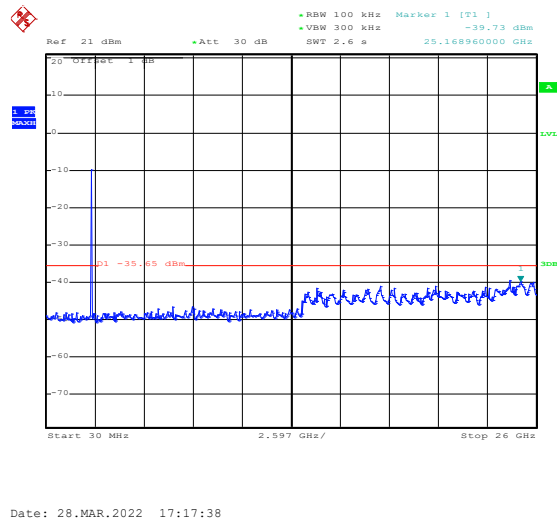
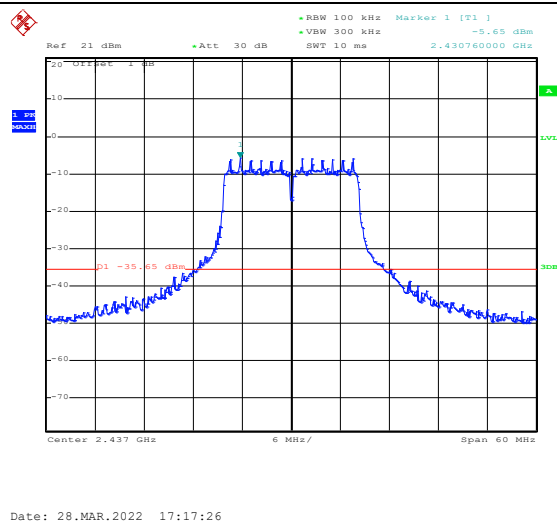


802.11b-High

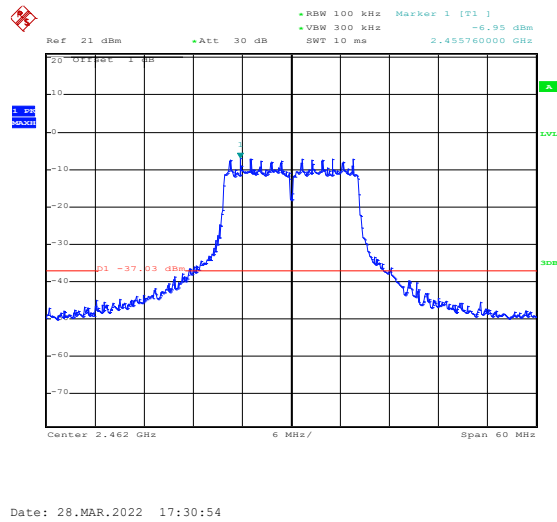


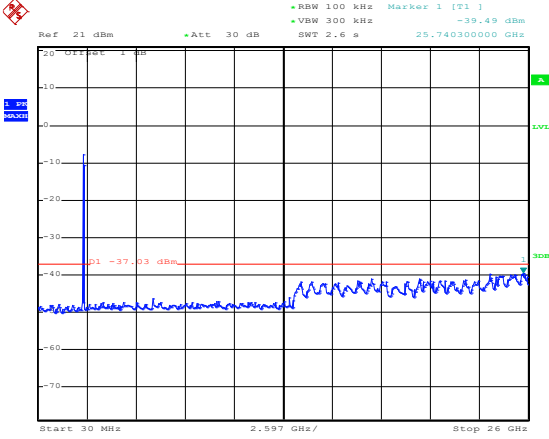
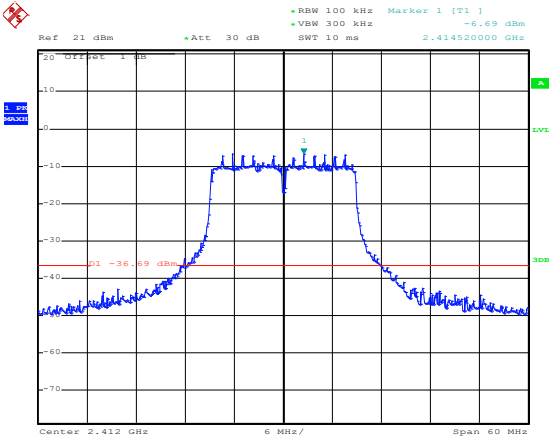
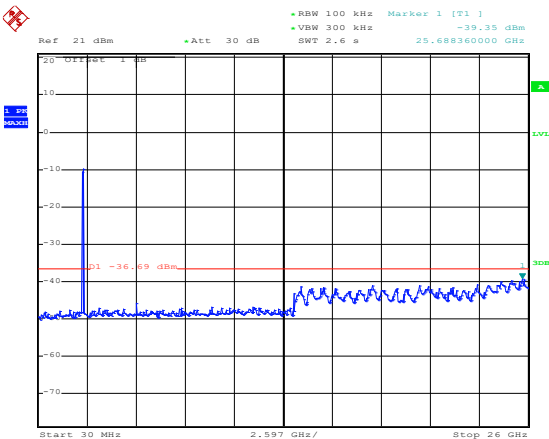
	 Date: 28.MAR.2022 17:15:17
802.11g-Low	 Date: 28.MAR.2022 17:16:22
	 Date: 28.MAR.2022 17:16:41

802.11g-Middle

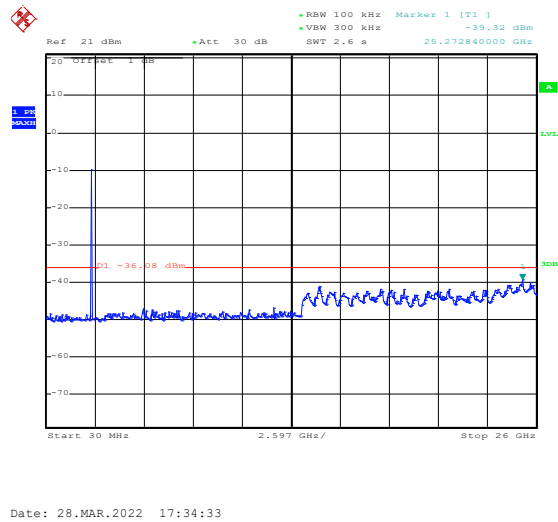
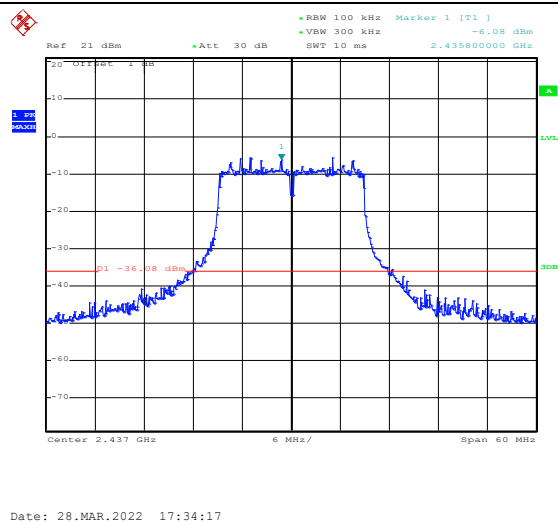


802.11g-High

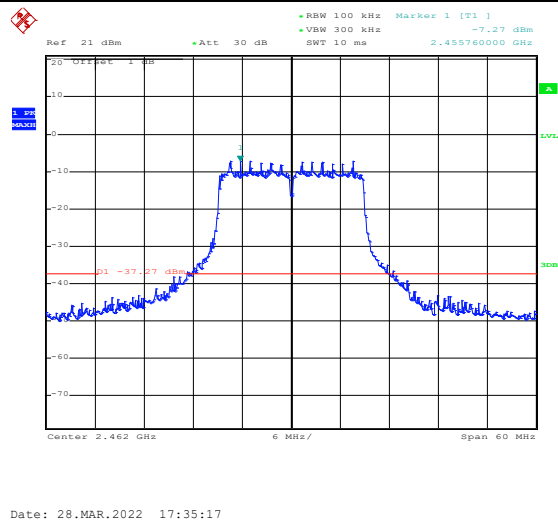


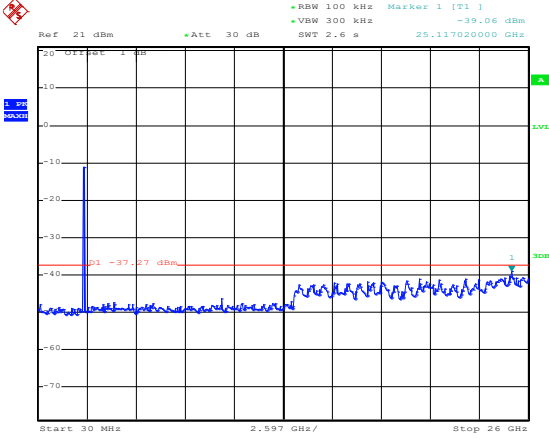
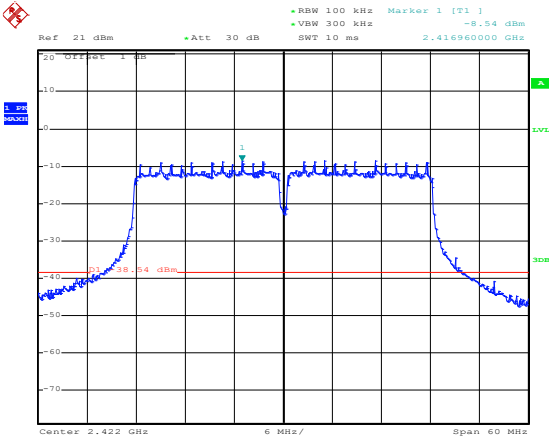
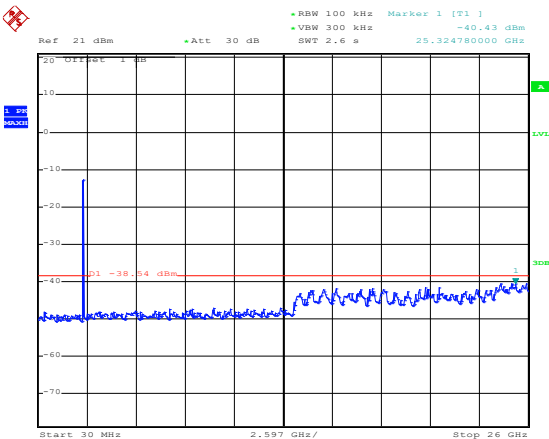
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802.11n-HT20-Low	 Date: 28.MAR.2022 17:33:11
	 Date: 28.MAR.2022 17:33:36

802.11n-HT20-Middle

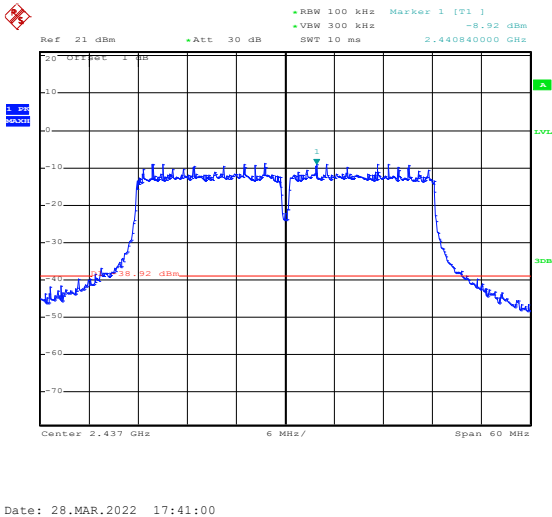


802.11n-HT20-High

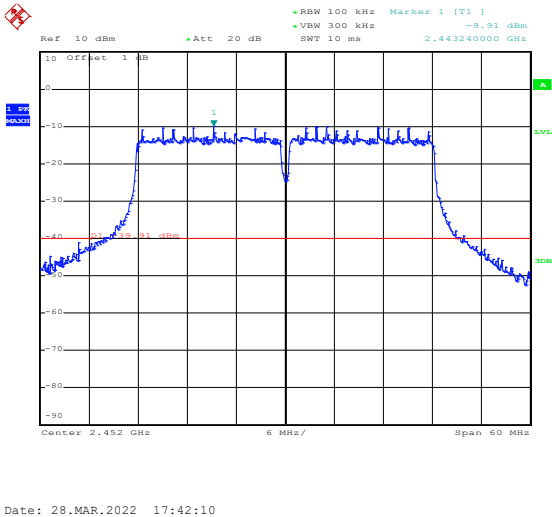


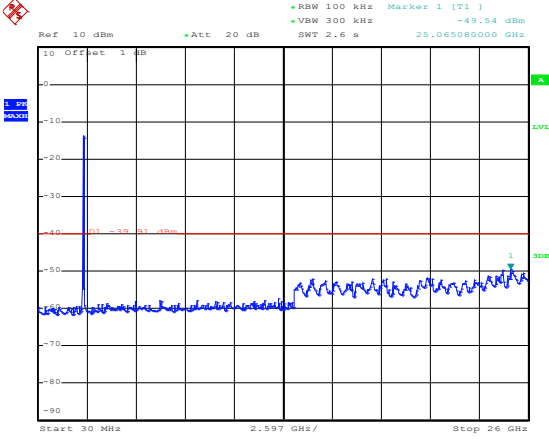
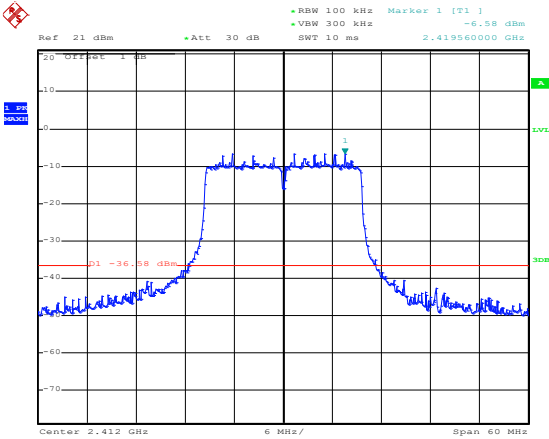
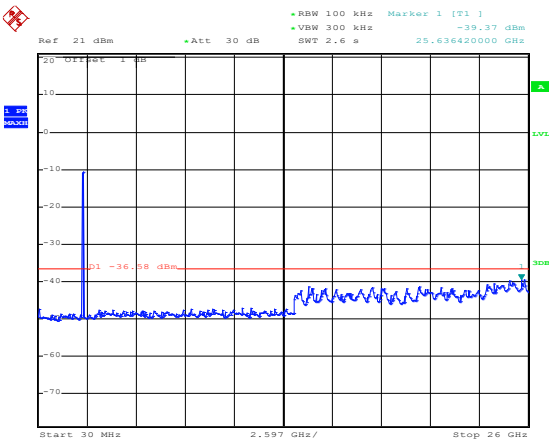
	 Date: 28.MAR.2022 17:35:29
802.11n-HT40-Low	 Date: 28.MAR.2022 17:39:57
	 Date: 28.MAR.2022 17:40:09

802.11n-HT40-Middle

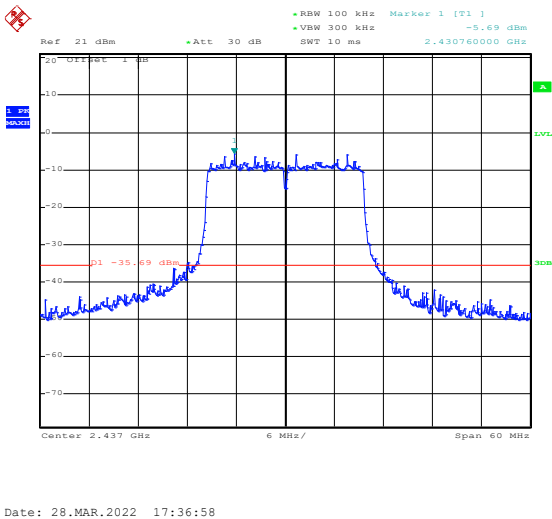


802.11n-HT40-High

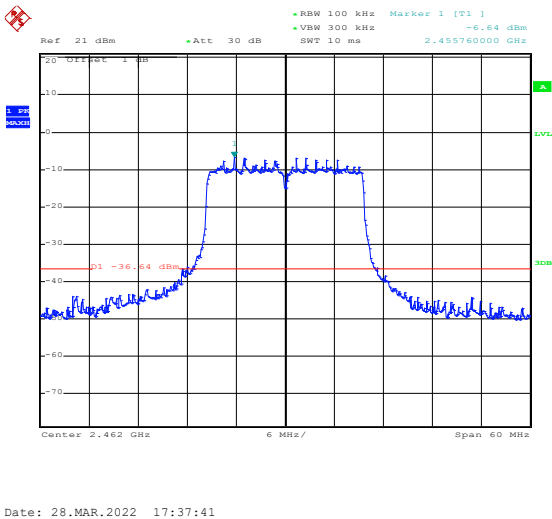


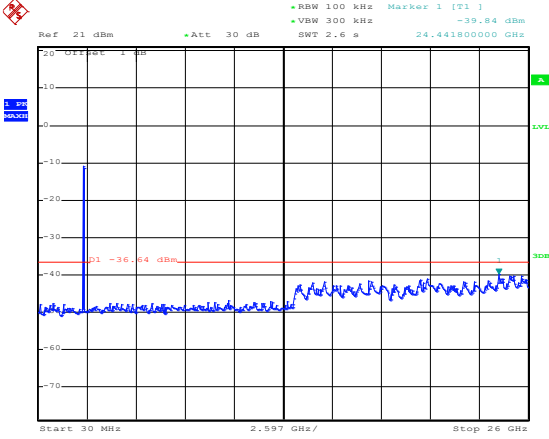
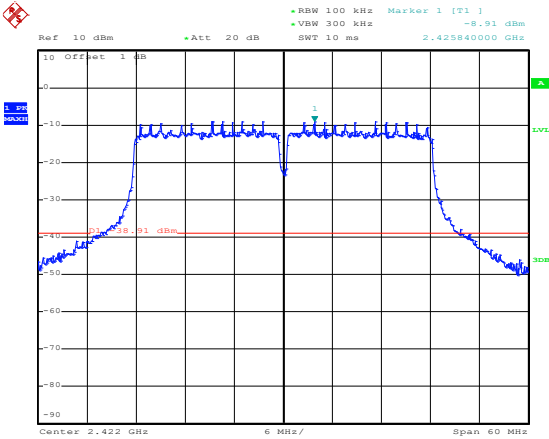
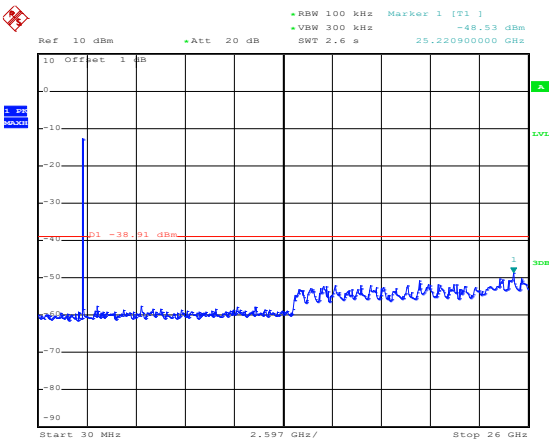
	 Date: 28.MAR.2022 17:42:21
802.11ax-HE20-Low	 Date: 28.MAR.2022 17:36:10
	 Date: 28.MAR.2022 17:36:26

802.11ax-HE20-Middle

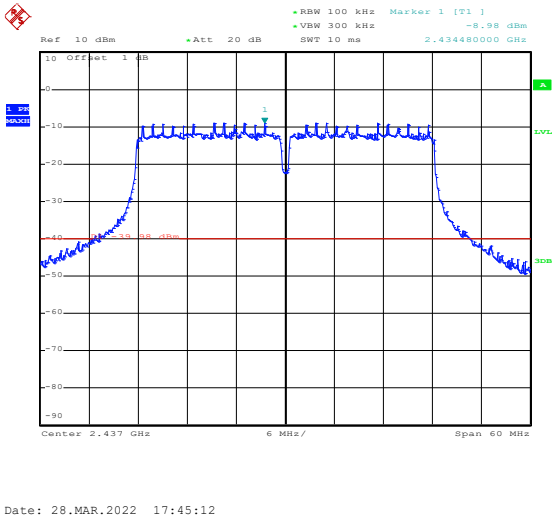


802.11ax-HE20-High

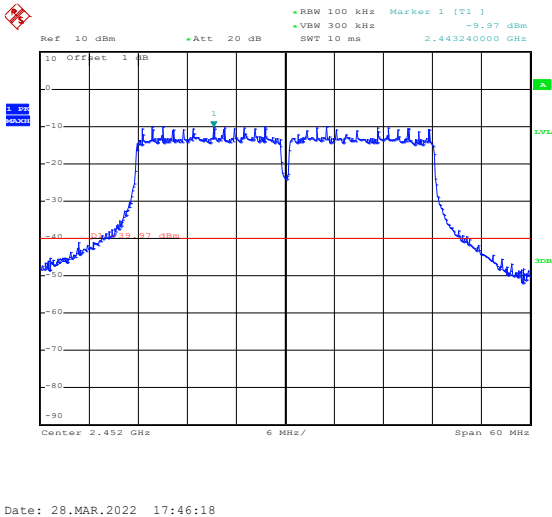


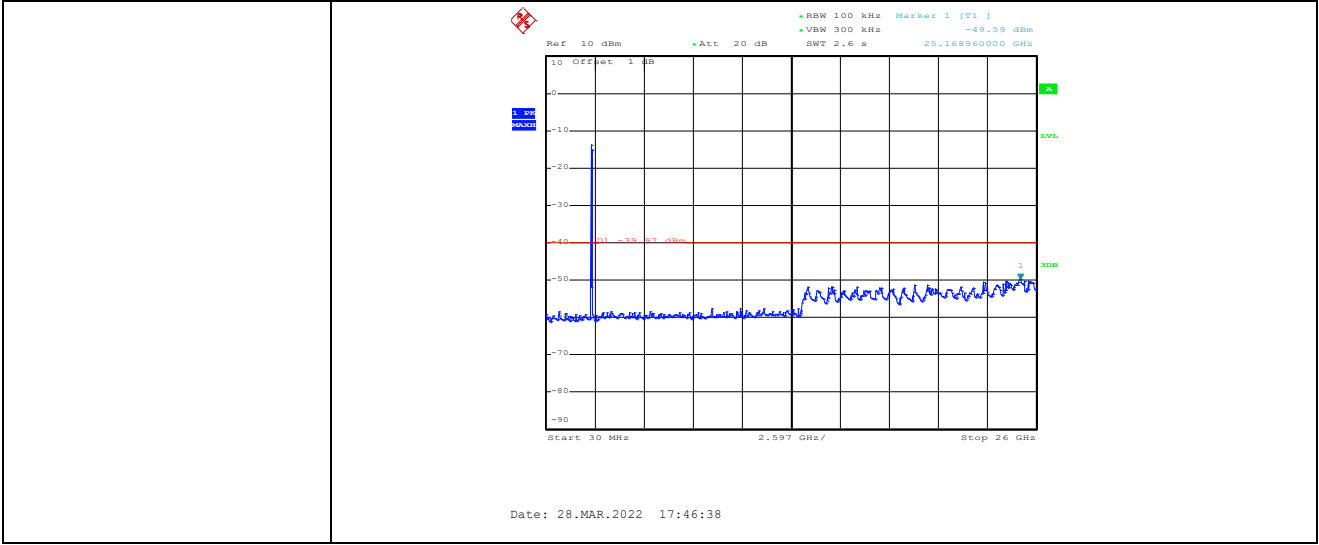
	 Date: 28.MAR.2022 17:37:53
802.11ax-HE40-Low	 Date: 28.MAR.2022 17:43:25
	 Date: 28.MAR.2022 17:43:39

802.11ax-HE40-Middle



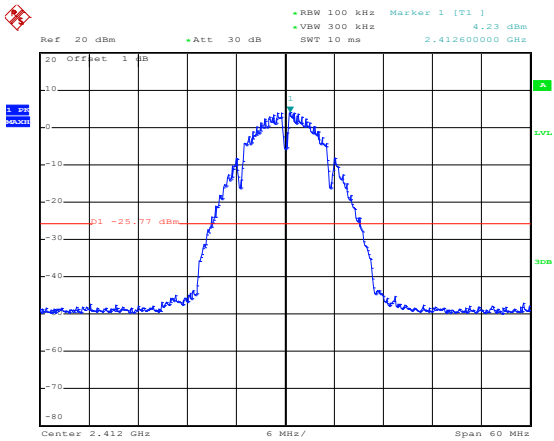
802.11ax-HE40-High



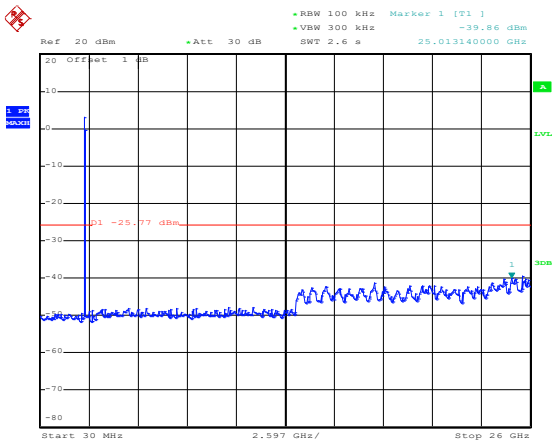


Antenna 1

802.11b-Low

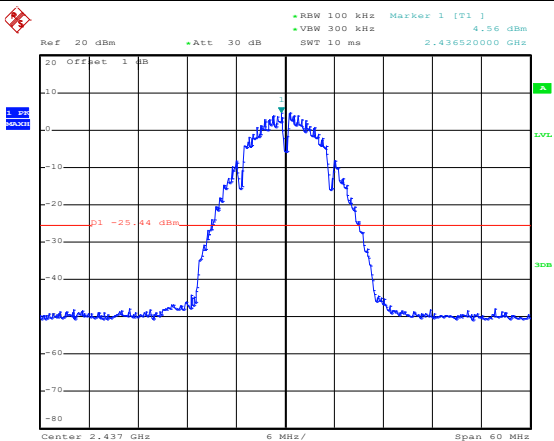


Date: 28.MAR.2022 20:46:07

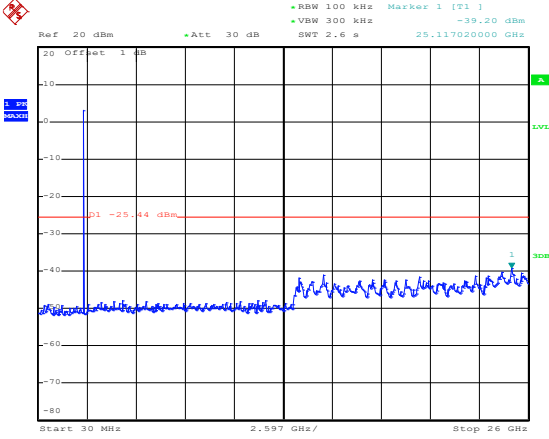
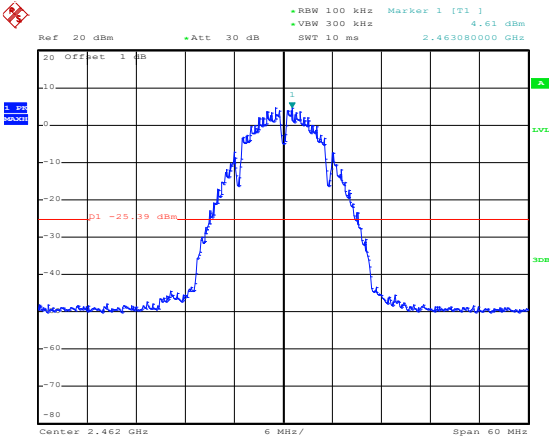
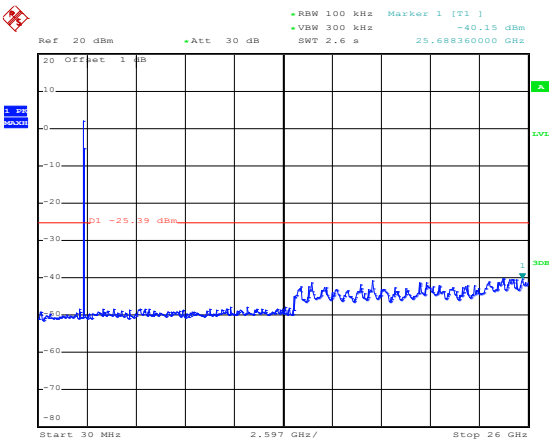


Date: 28.MAR.2022 20:46:23

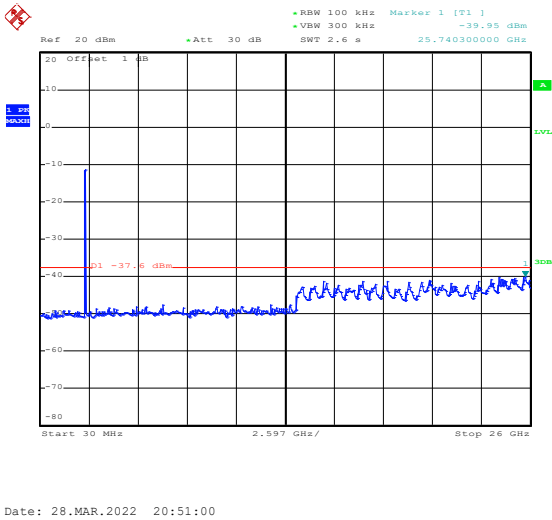
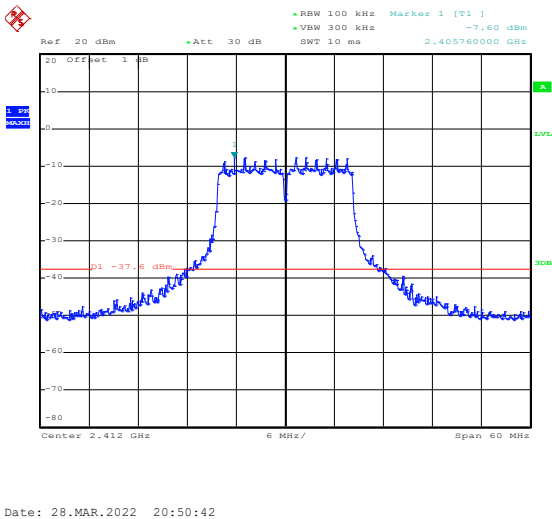
802.11b-Middle



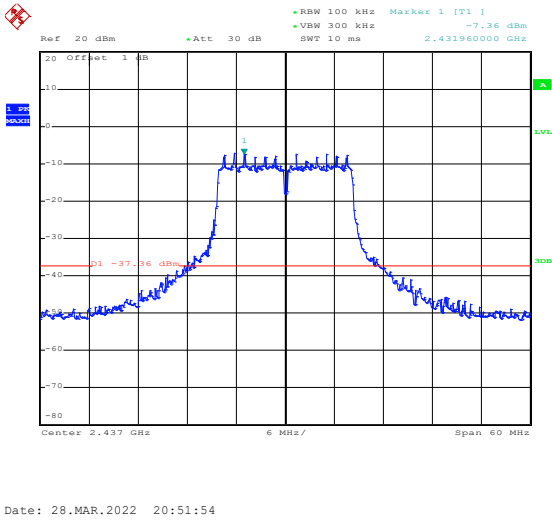
Date: 28.MAR.2022 20:47:15

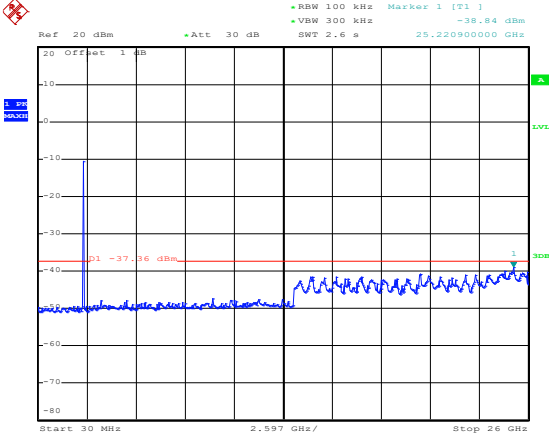
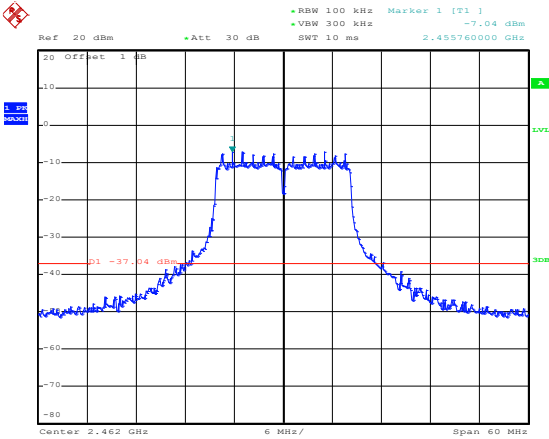
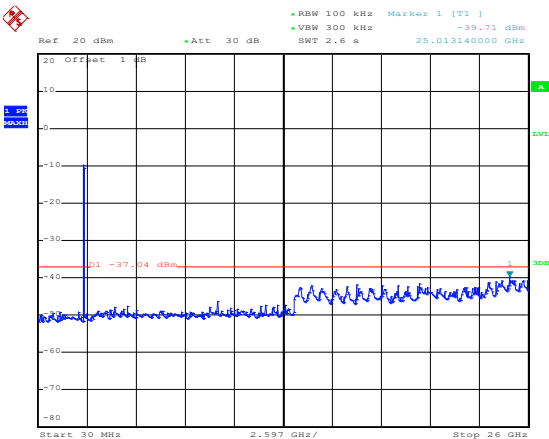
	 Date: 28.MAR.2022 20:47:27
802.11b-High	 Date: 28.MAR.2022 20:49:49
	 Date: 28.MAR.2022 20:50:04

802.11g-Low

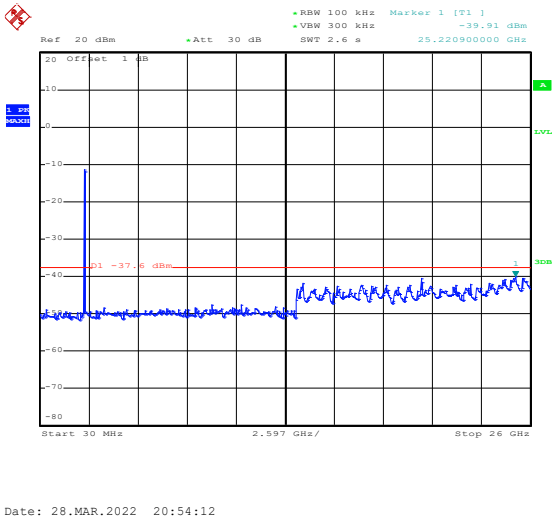
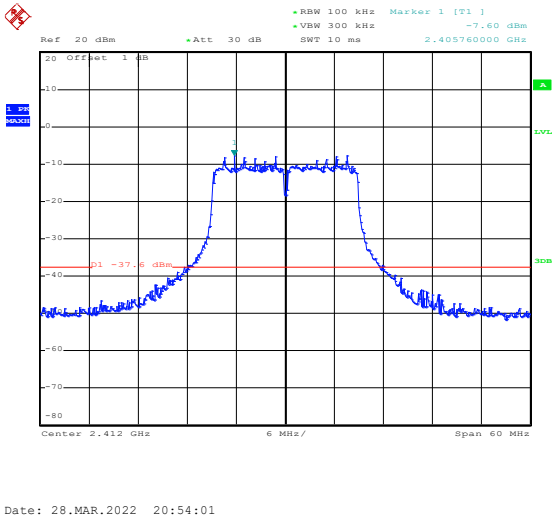


802.11g-Middle

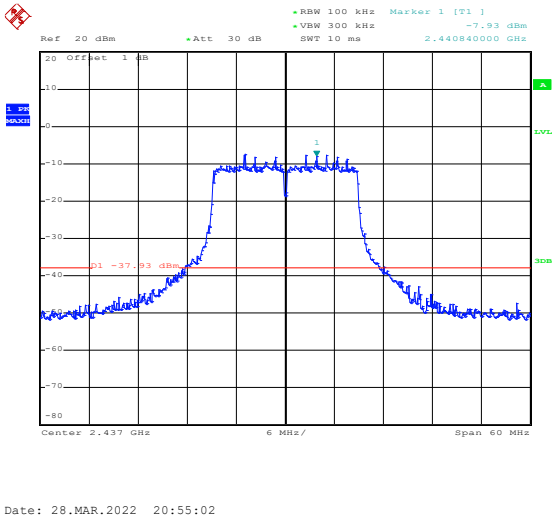


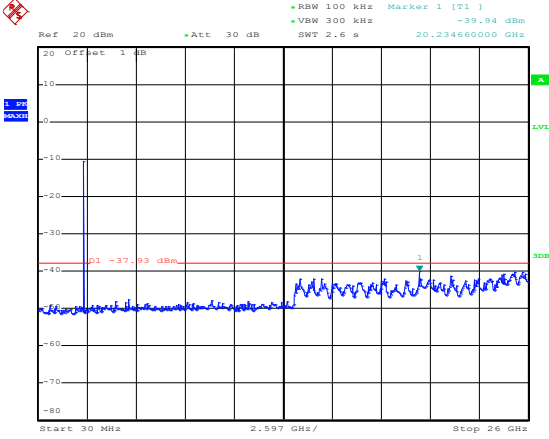
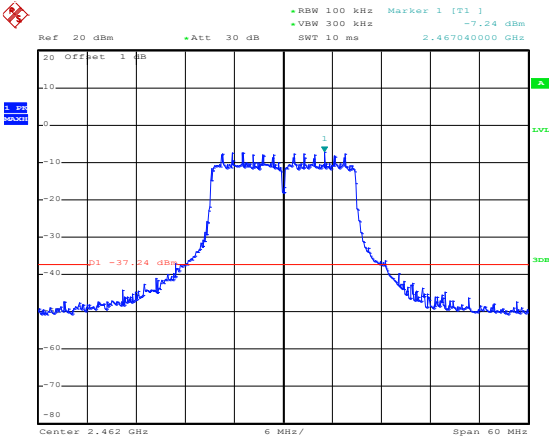
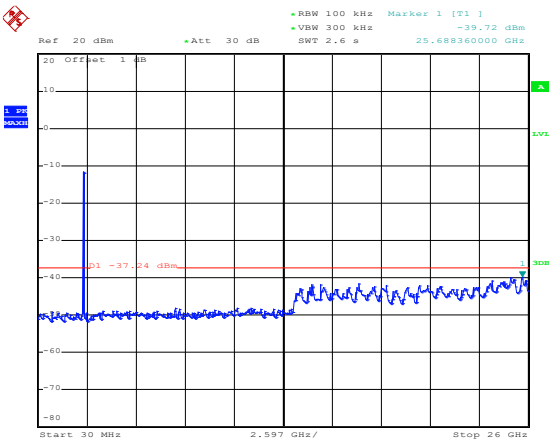
	 Date: 28.MAR.2022 20:52:17
802.11g-High	 Date: 28.MAR.2022 20:52:56
	 Date: 28.MAR.2022 20:53:07

802.11n-HT20-Low

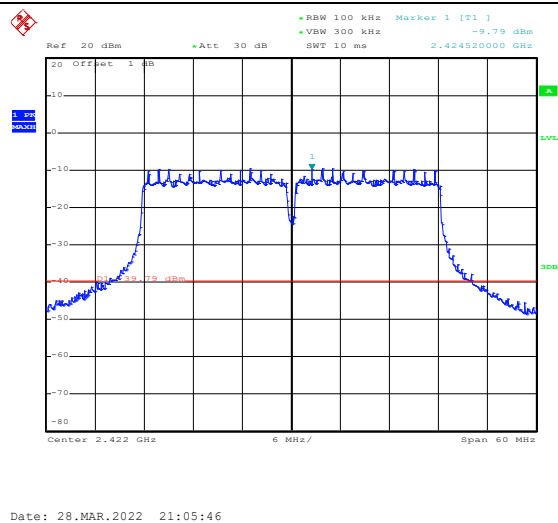


802.11n-HT20-Middle

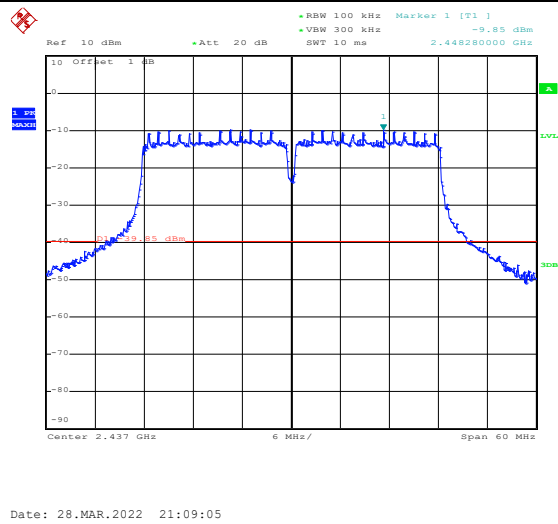


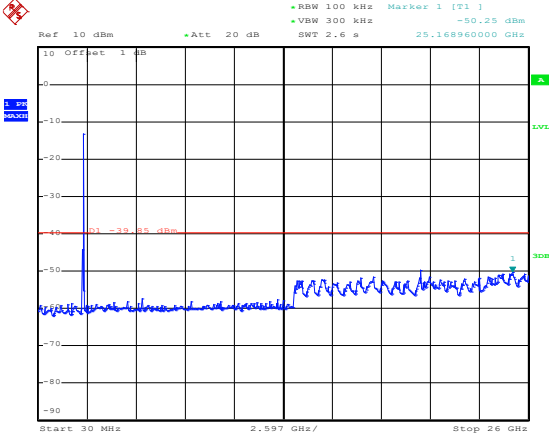
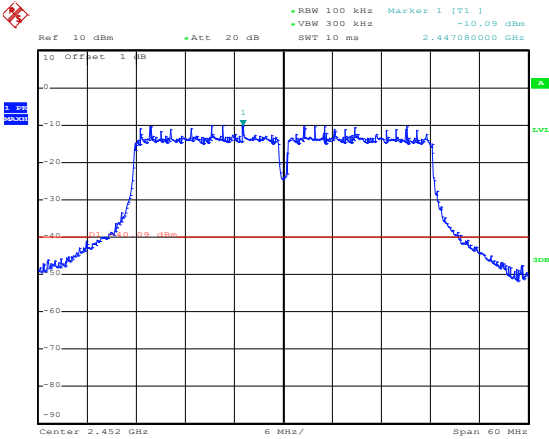
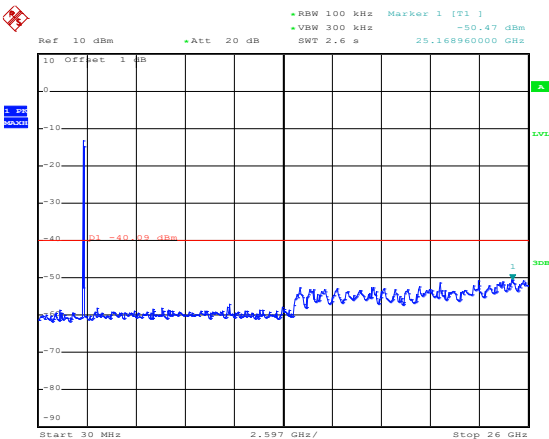
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802.11n-HT20-High	 Date: 28.MAR.2022 20:56:04
	 Date: 28.MAR.2022 20:56:18

802.11n-HT40-Low

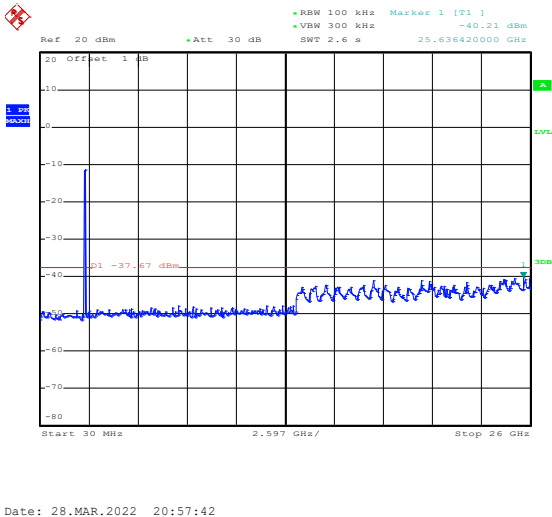
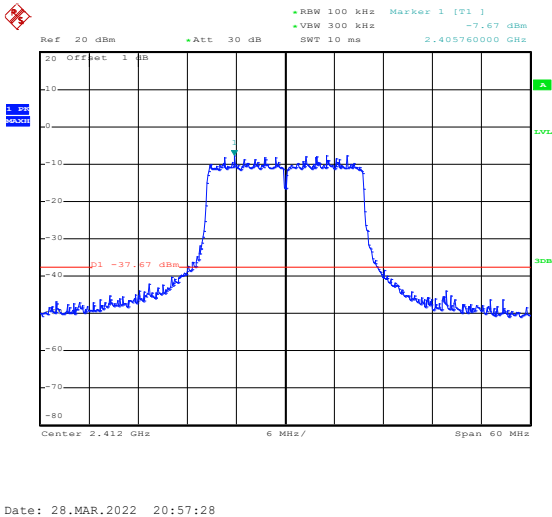


802.11n-HT40-Middle

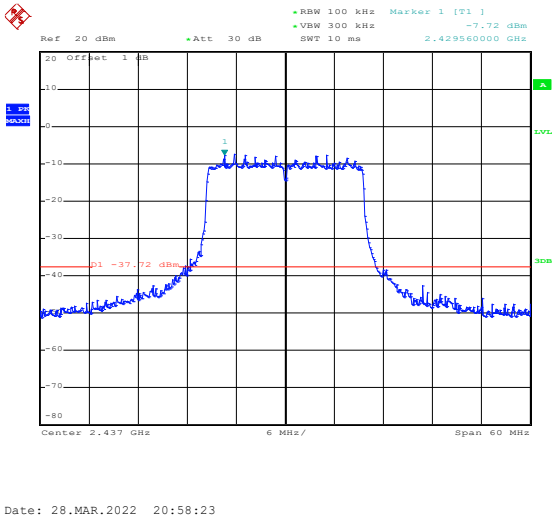


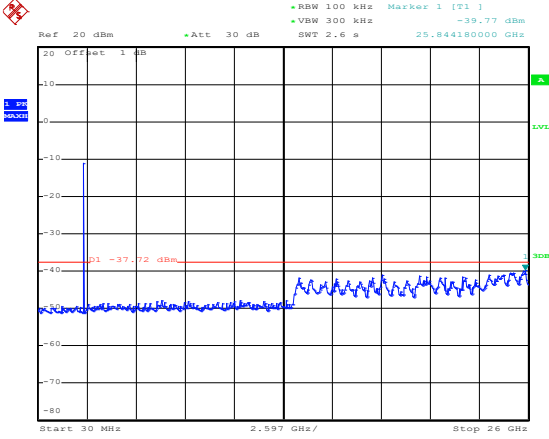
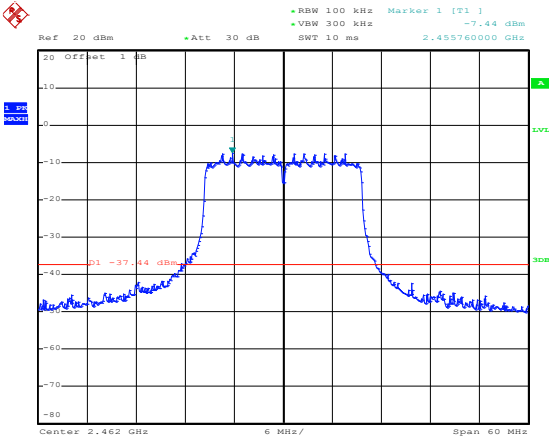
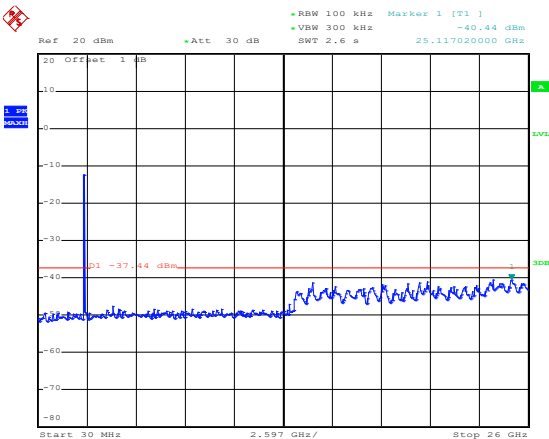
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802.11n-HT40-High	 Date: 28.MAR.2022 21:10:04
	 Date: 28.MAR.2022 21:10:14

802.11ax-HE20-Low

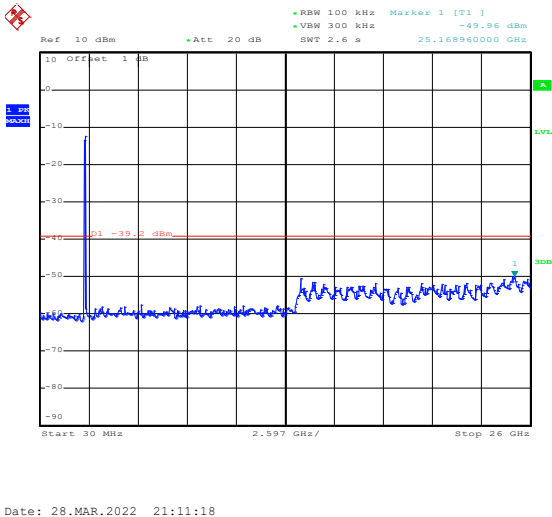
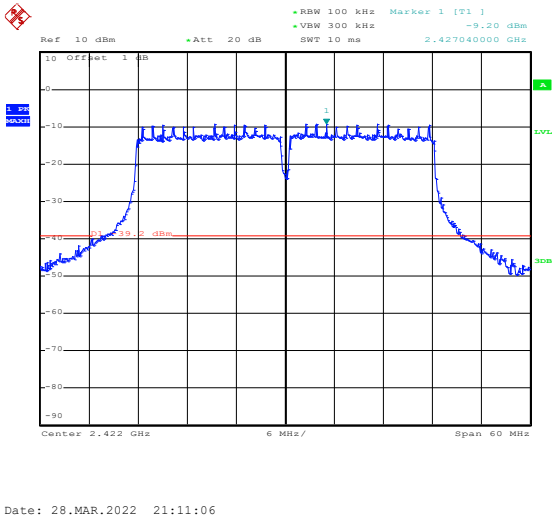


802.11ax-HE20-Middle

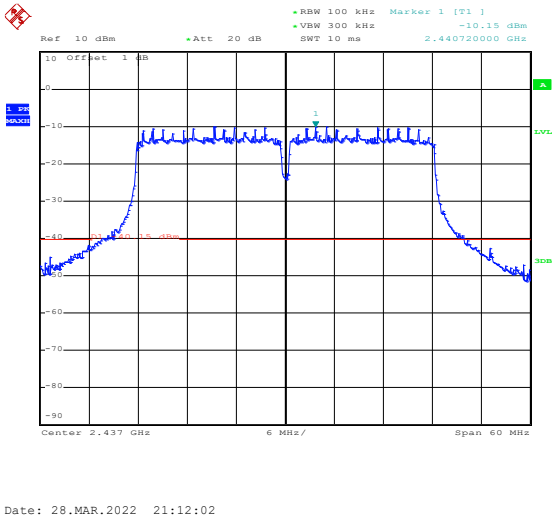


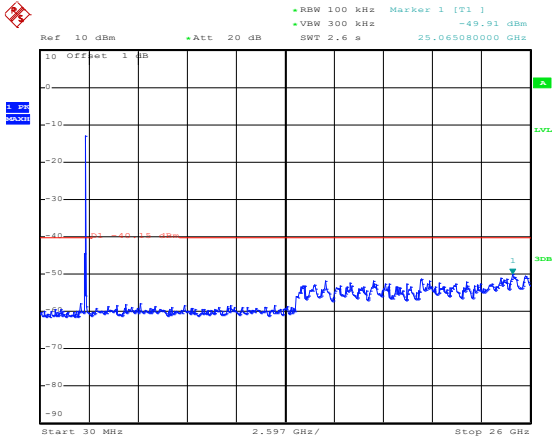
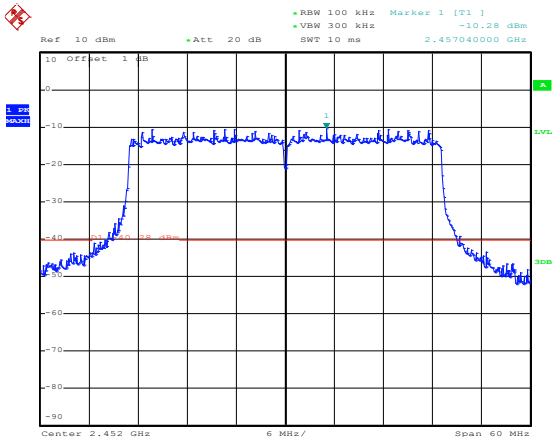
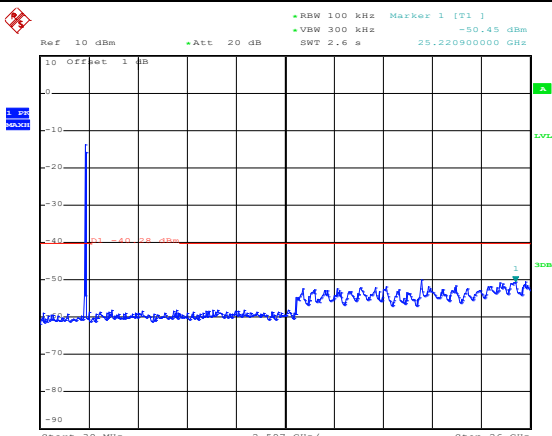
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802.11ax-HE20-High	 Date: 28.MAR.2022 21:00:48
	 Date: 28.MAR.2022 21:01:20

802.11ax-HE40-Low



802.11ax-HE40-Middle



	 Date: 28.MAR.2022 21:12:11
802.11ax-HE40-High	 Date: 28.MAR.2022 21:12:53
	 Date: 28.MAR.2022 21:13:07

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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