FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2341-2
FCC ID	:	IHDT56AM1
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System
TEST DATE(S)	:	Mar. 31, 2023 ~ May 18, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (ShenZhen)

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR332006C	Rev. 01	Initial issue of report	May 26, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.74 dB at 2483.700 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 14.80 dB at 0.159 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-
Remark: Not required means after assessing, test items are not necessary to carry out.					

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2341-2
FCC ID	IHDT56AM1
IMEI Code	Conducted: 352000530005895/352000530005903 Conduction: 352000530005416/352000530005424 Radiation: 352000530016413/352000530016421
HW Version	DVT2
SW Version	TLA33.30
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	802.11b : 22.63 dBm (0.1832 W) 802.11g : 24.95 dBm (0.3126 W) 802.11n HT20 : 24.92 dBm (0.3105 W)
99% Occupied Bandwidth	802.11b : 12.040MHz 802.11g : 19.080MHz 802.11n HT20 : 20.280MHz
Antenna Type / Gain	PIFA Antenna type with gain -3.00 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

Remark: Ant 1 in Conducted and RSE test data corresponds to BT/WIFI antenna in EP.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1 (US)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-201L
AC Adapter 1 (EU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-202L
AC Adapter 1 (AR)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-206L
AC Adapter 1 (BR)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-207L
AC Adapter 1 (CHILE)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-209L
AC Adapter 2 (US)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-201L
AC Adapter 2 (EU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-202L
AC Adapter 2 (AR)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-206L
AC Adapter 3 (US)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-101
AC Adapter 3 (EU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-102
AC Adapter 3 (UK)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-103
AC Adapter 3 (AU)	**Brand Name**	Motorola (Aohai)	**Model Name**	MC-105
AC Adapter 4 (US)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-101
AC Adapter 4 (EU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-102
AC Adapter 4 (UK)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-103
AC Adapter 4 (AU)	**Brand Name**	Motorola (Chenyang)	**Model Name**	MC-105
AC Adapter 5 (US)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-101
AC Adapter 5 (EU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-102
AC Adapter 5 (UK)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-103
AC Adapter 5 (AU)	**Brand Name**	Motorola (Salcomp)	**Model Name**	MC-105
Battery 1	**Brand Name**	Motorola (ATL)	**Model Name**	PC50
Battery 2	**Brand Name**	Motorola (SCUD)	**Model Name**	PC50
Earphone 1	**Brand Name**	Motorola (New leader)	**Model Name**	NLD-EM313A-20SF
Earphone 2	**Brand Name**	Motorola (JWELL)	**Model Name**	JWEP1205-L20H
USB Cable 1	**Brand Name**	Motorola (SAIBAO)	**Model Name**	SLQ-A214A
USB Cable 2	**Brand Name**	Motorola (JWELL)	**Model Name**	ATOC

1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-KS TH01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH03-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test results in section 3.5 of this report.

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH03-SZ	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

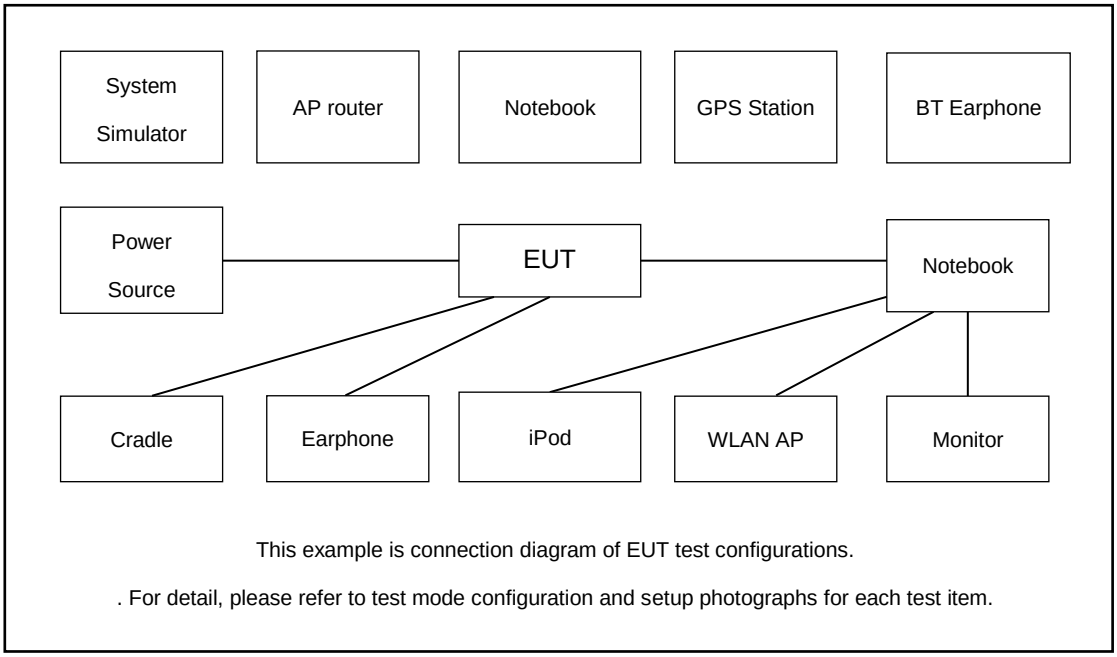
Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable 2(Charging from Adapter5) + Earphone 2 + Battery 1

Remark:

1. For Radiated Test Cases, The tests were performance with Adapter 1, Battery 1, Earphone 1, and USB Cable 1
2. The RSE Co-location mode is assessed from the worst WLAN TX + WWAN Link mode.

Simultaneous transmission
802.11g Tx_Ch11 + LTE Band13_BW

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6.0 dB

Offset(dB) = RF cable loss(dB)

= 6.0 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

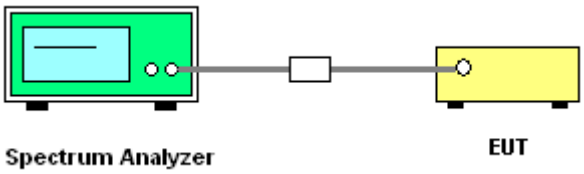
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

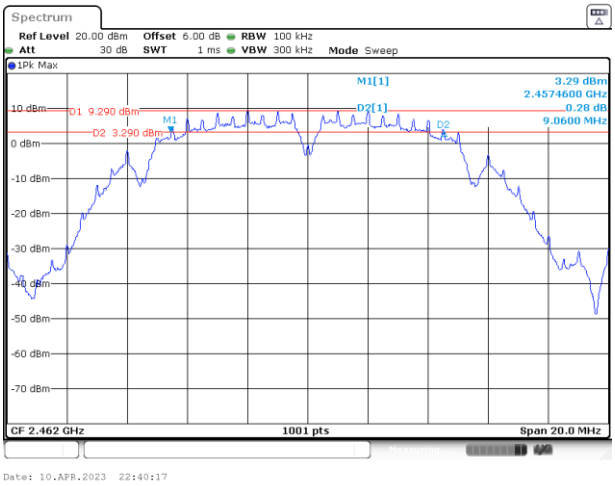
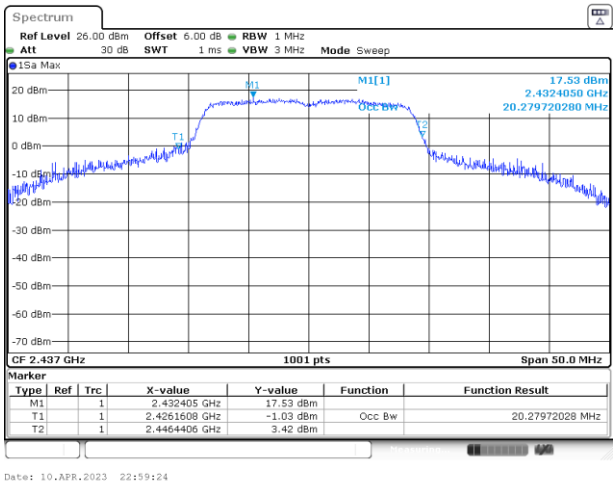
1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

Minimum 6dB Bandwidth	Maximum 99% Occupied Bandwidth
	

Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

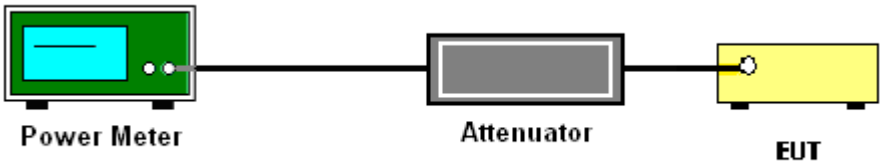
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

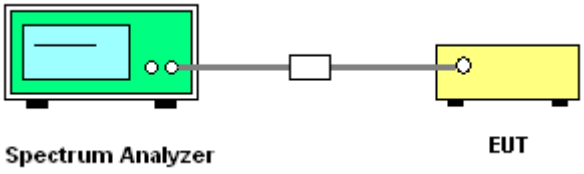
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

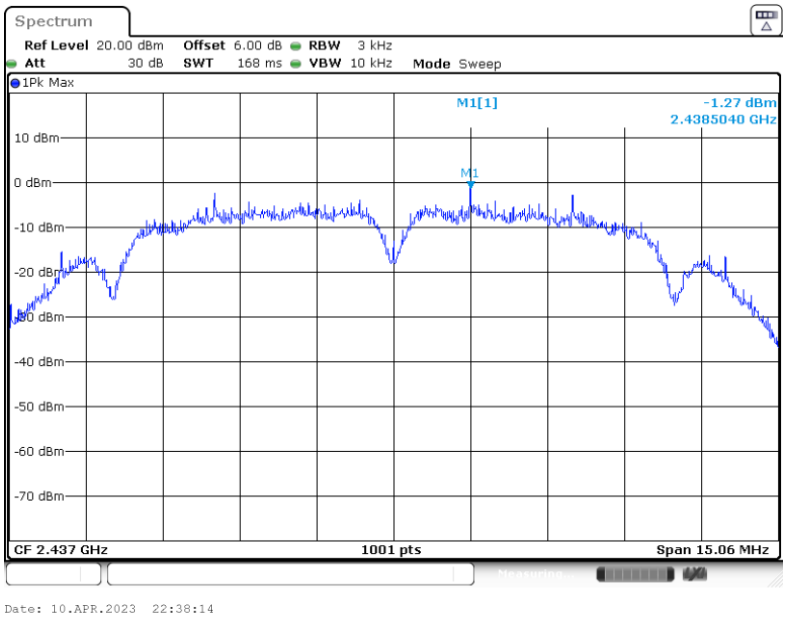
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/3kHz)



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

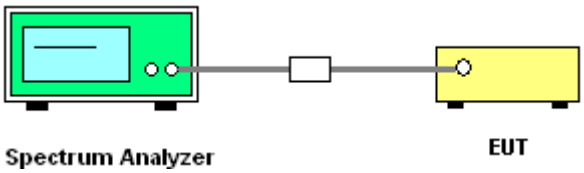
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

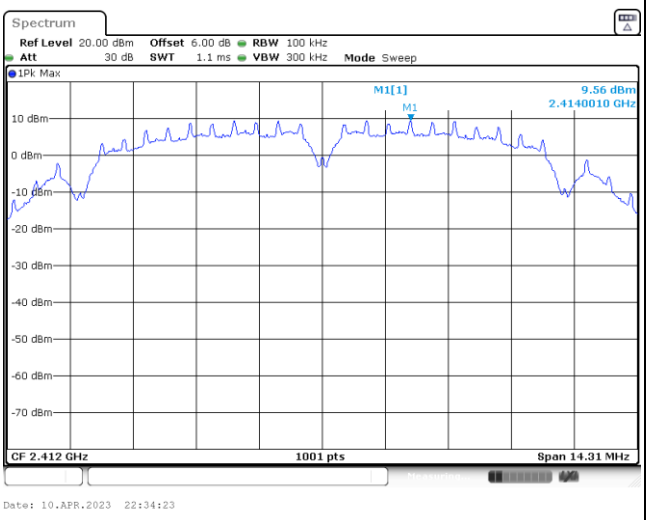
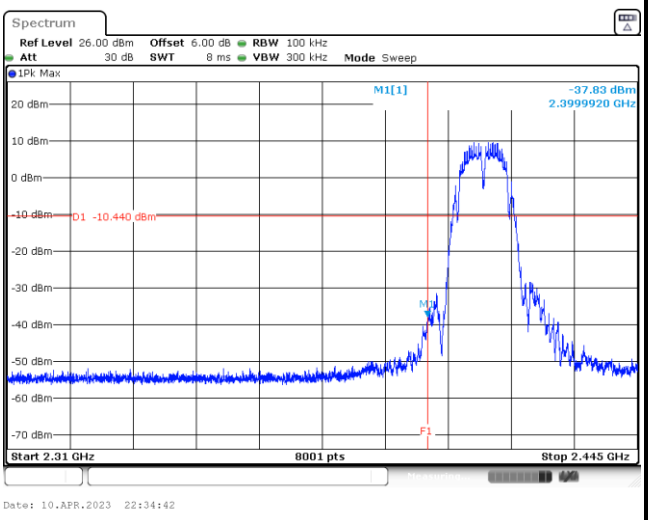
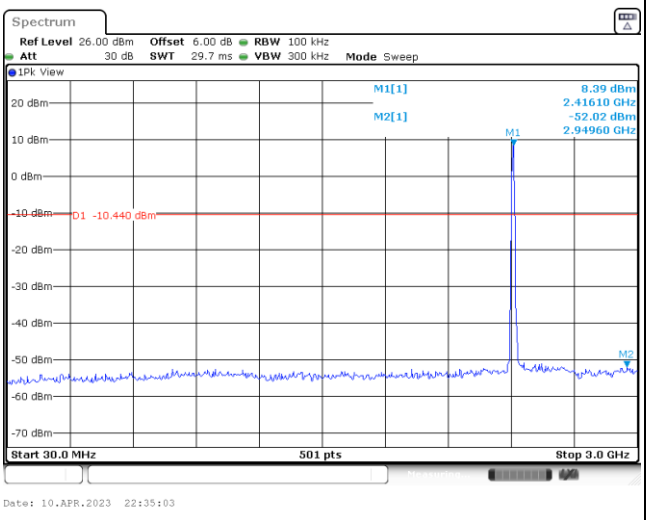
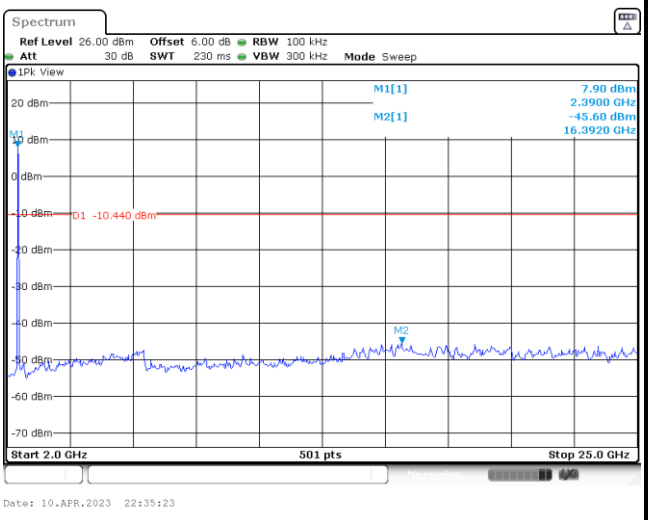


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

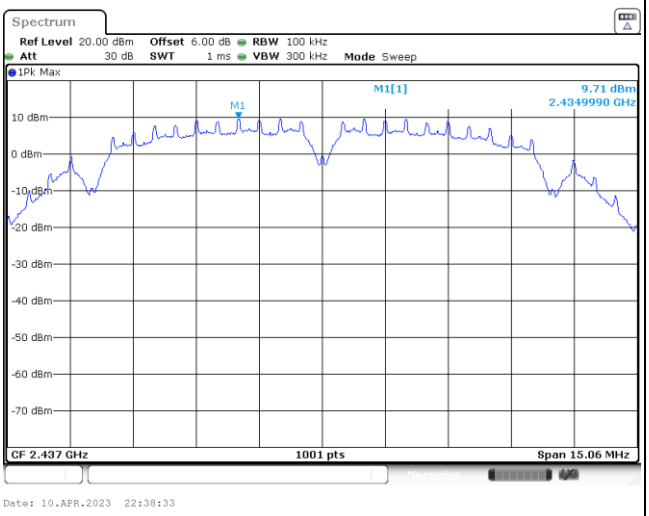
Test Engineer :	Albert shi	**Temperature :**	21~25℃
		Relative Humidity :	51~54%

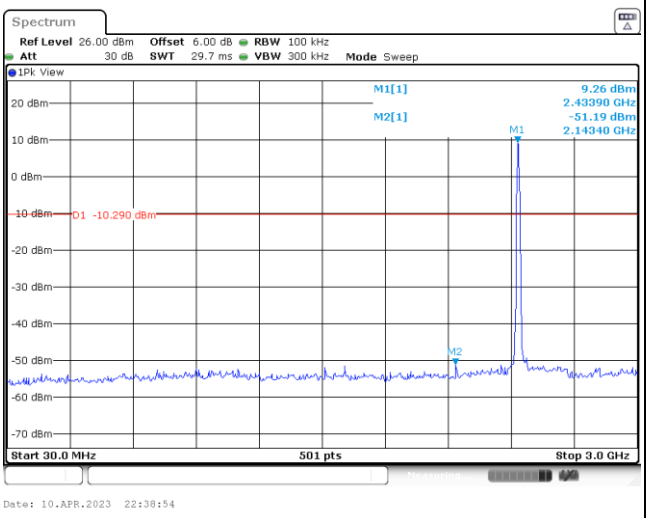
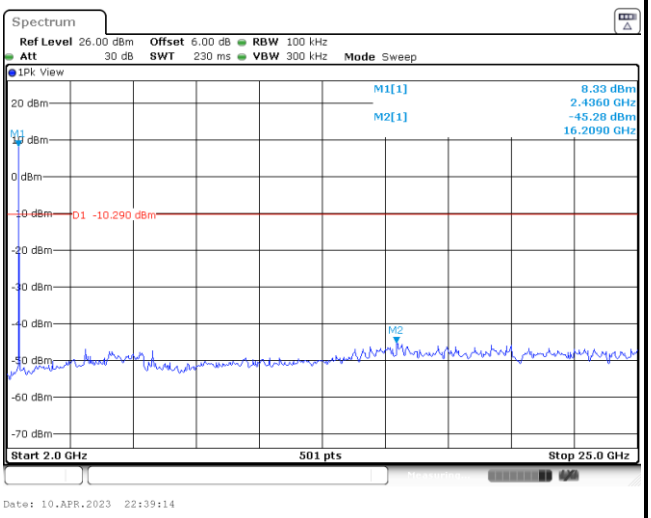
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	**Test Channel :**	01

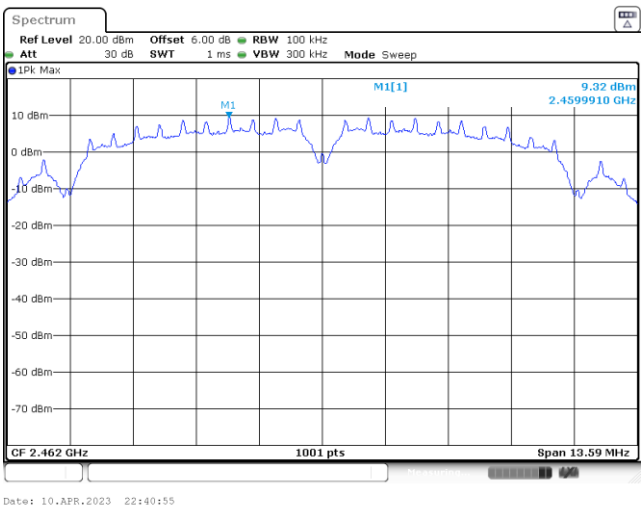
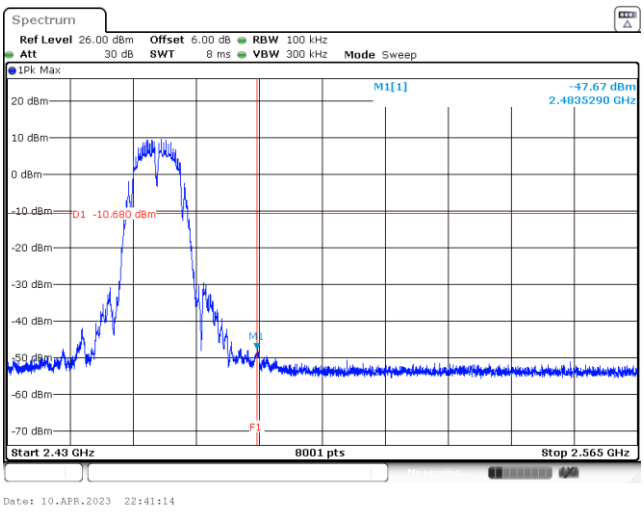
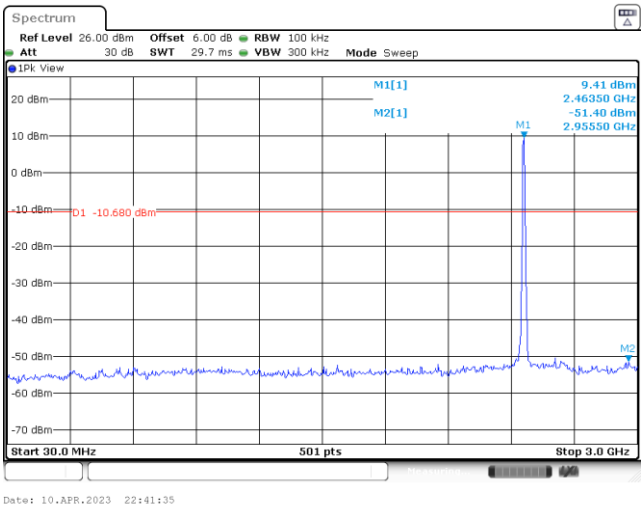
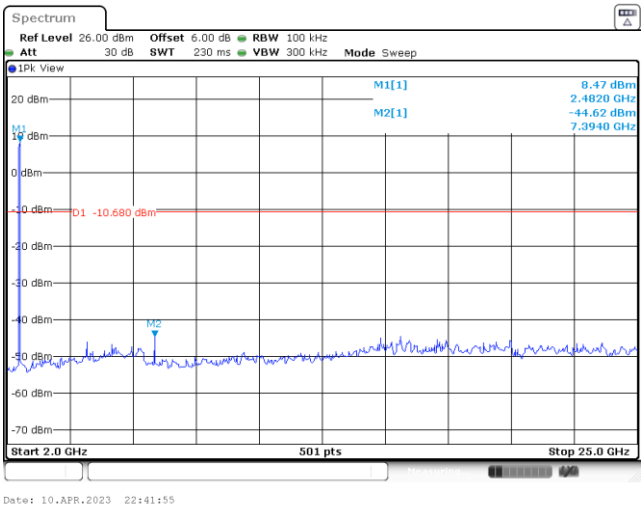
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11b	Test Channel :	06

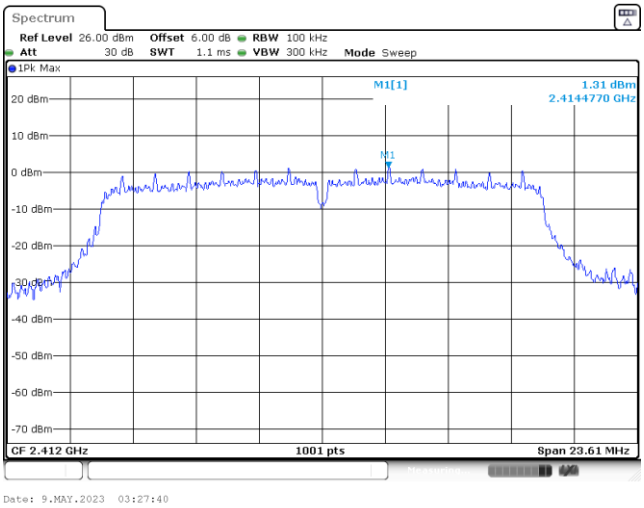
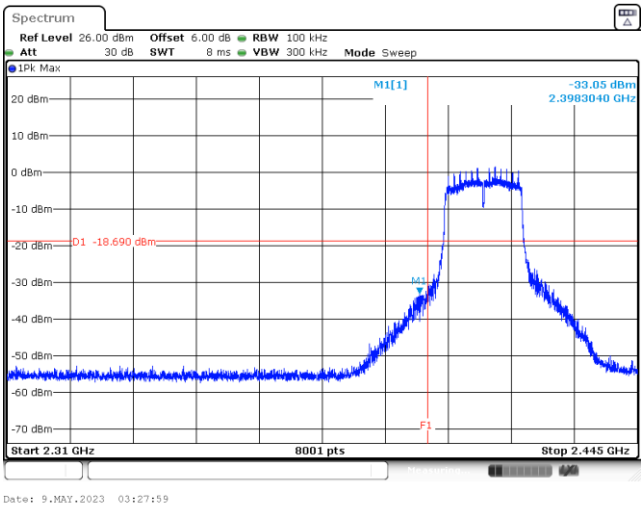
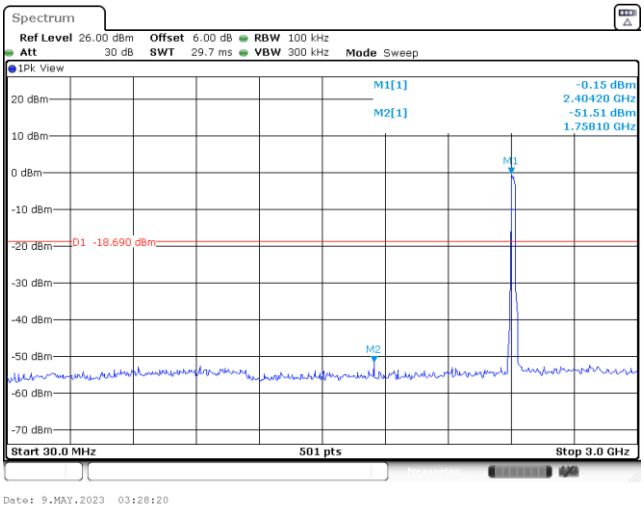
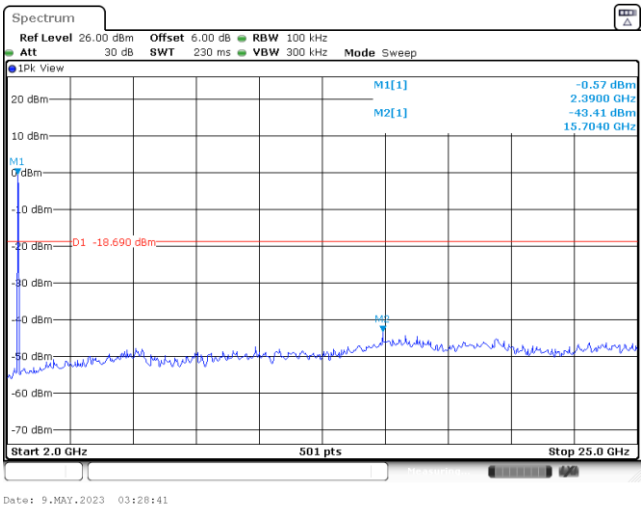
100kHz PSD reference Level	Channel Plot
	-

Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

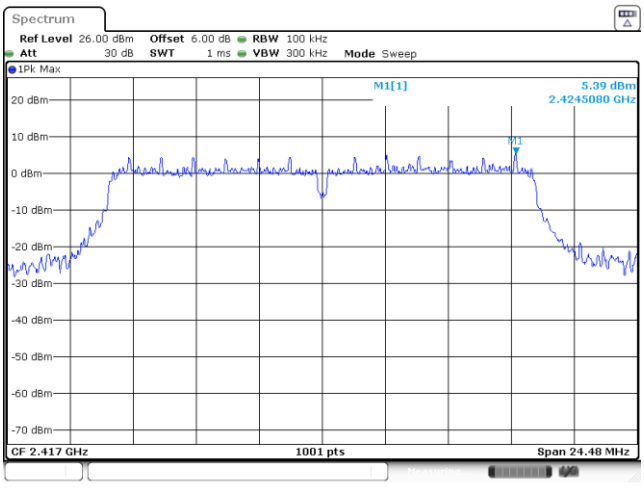
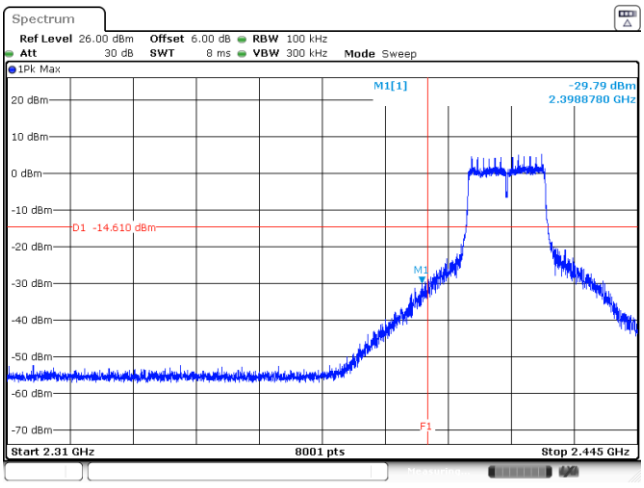
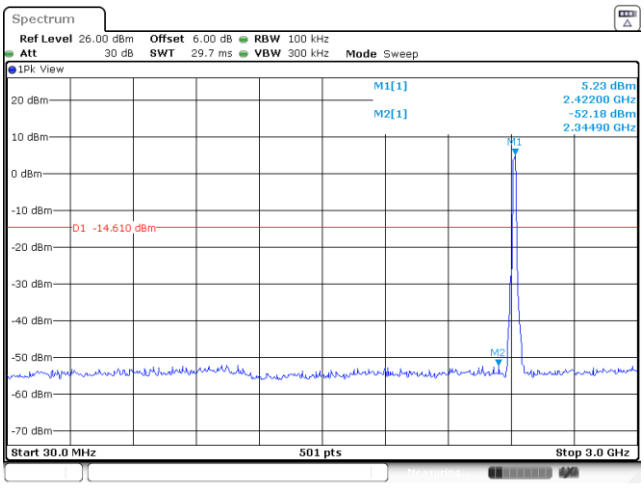
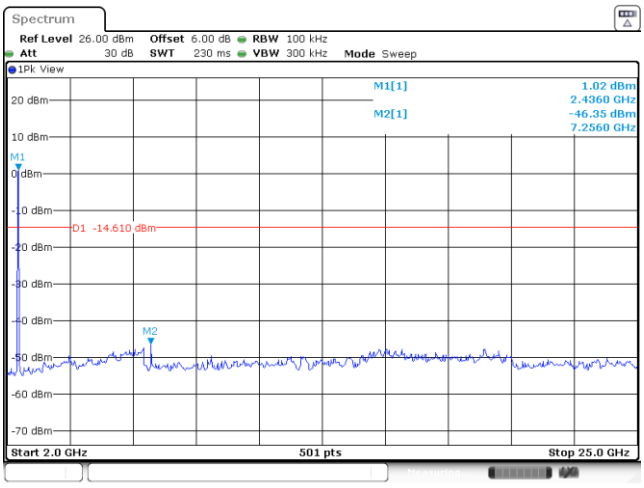
Test Mode :	802.11b	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

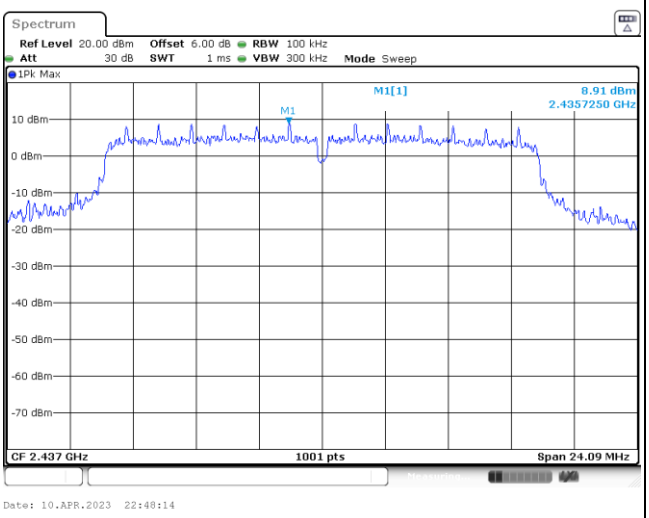
Test Mode :	802.11g	Test Channel :	01

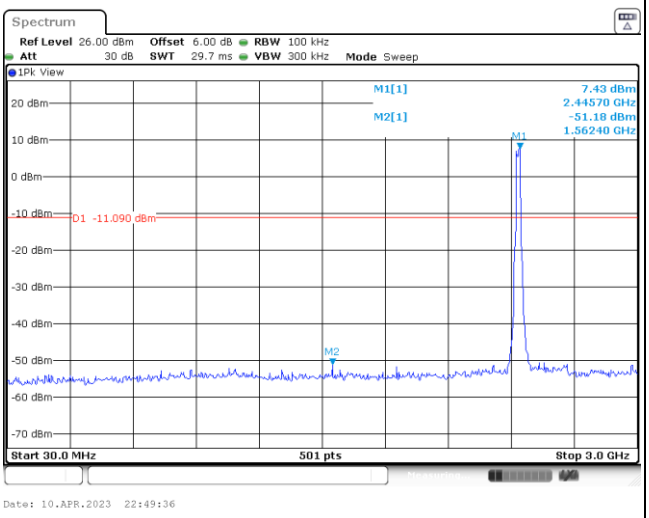
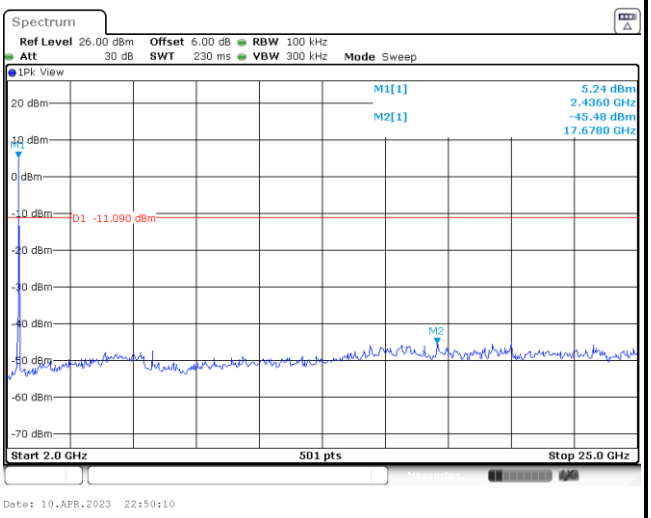
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11g	Test Channel :	02

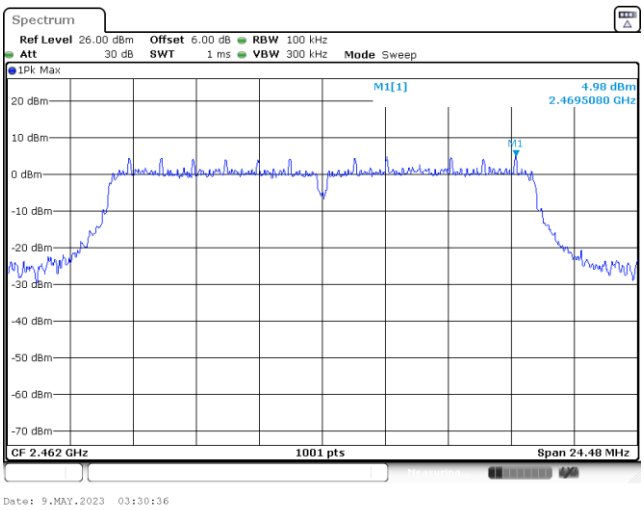
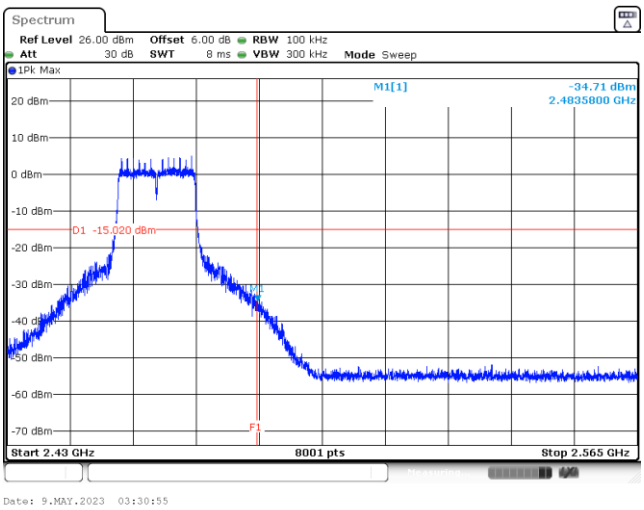
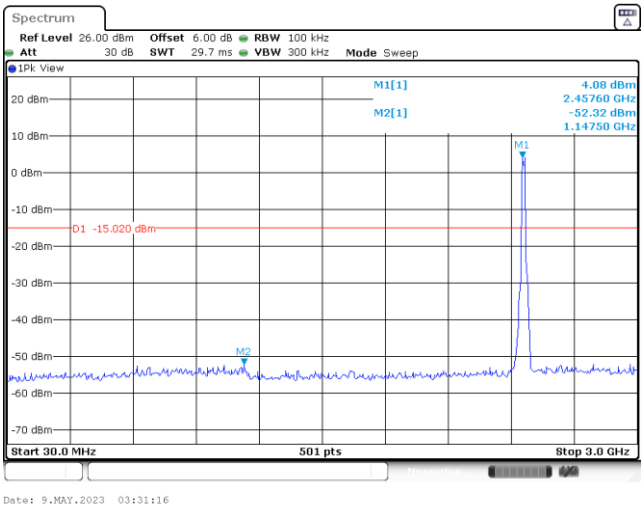
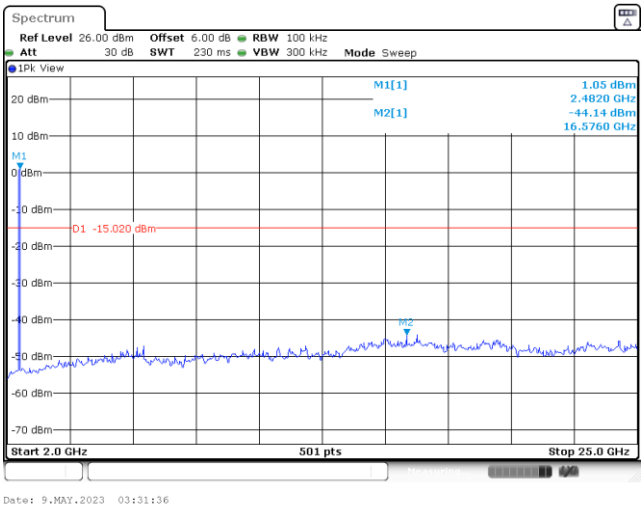
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11g	Test Channel :	06

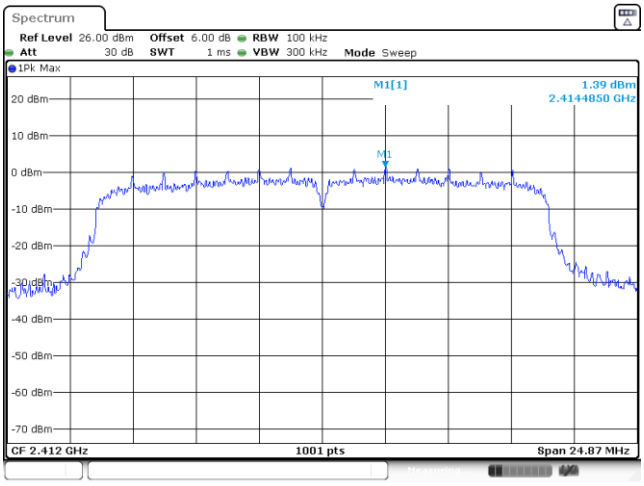
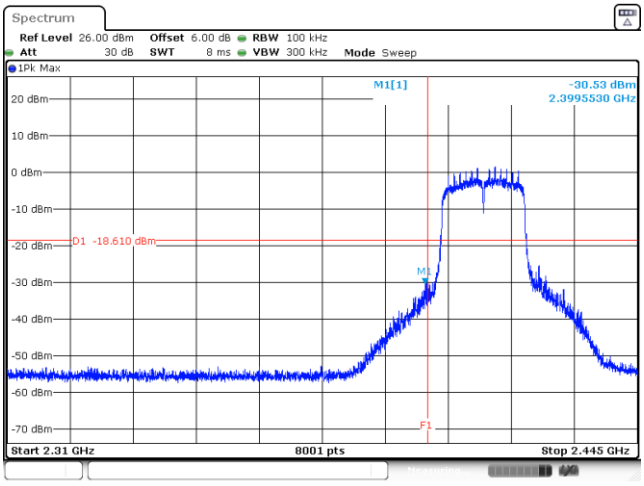
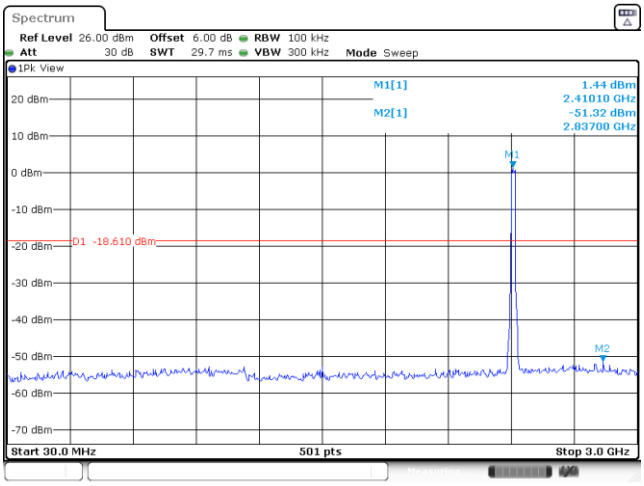
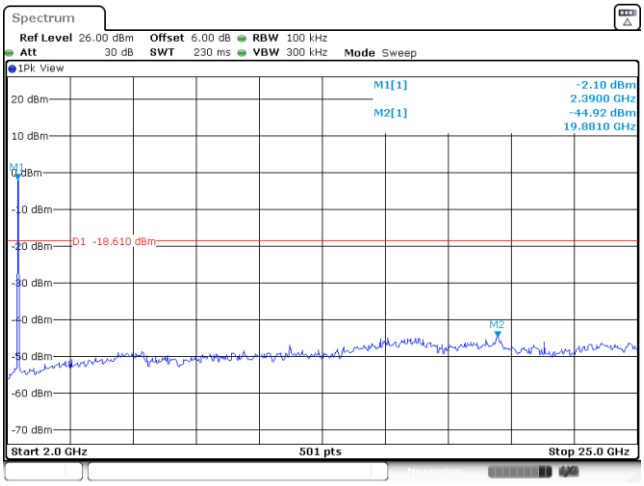
100kHz PSD reference Level	Channel Plot
	-

Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

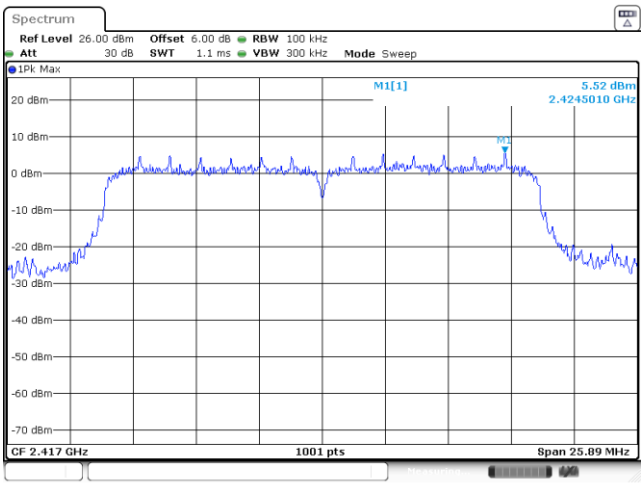
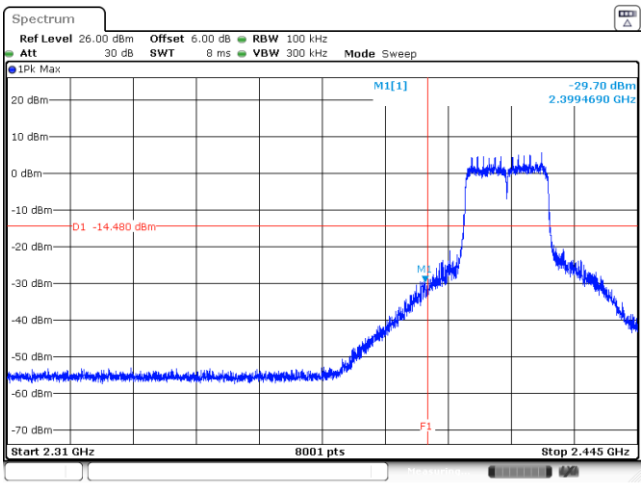
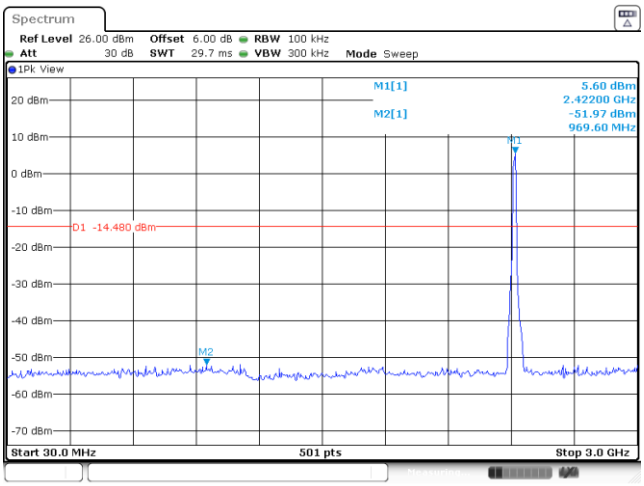
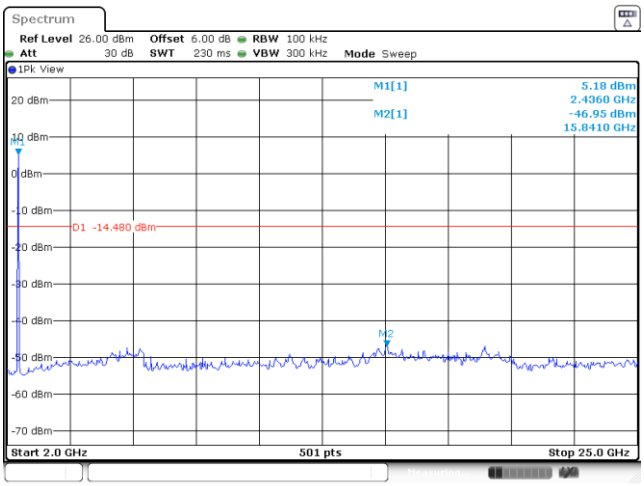
Test Mode :	802.11g	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

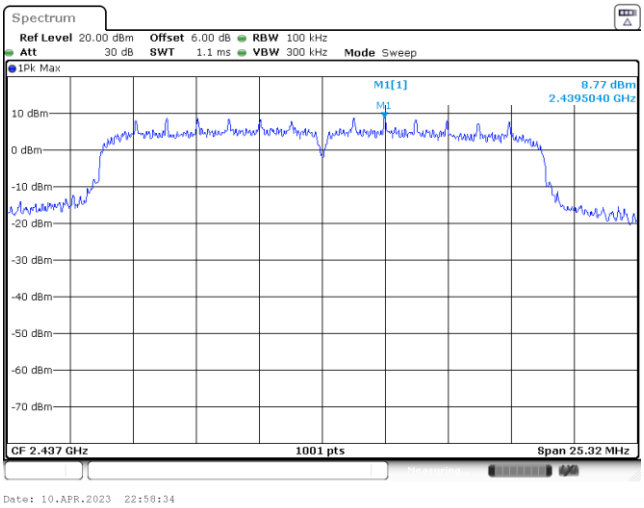
Test Mode :	802.11n HT20	Test Channel :	01

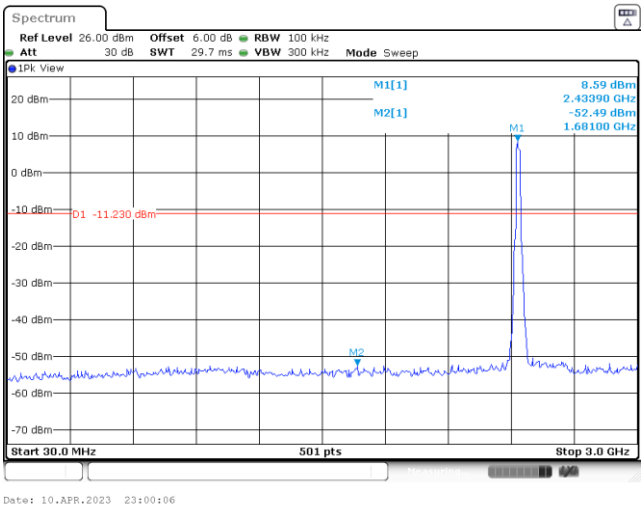
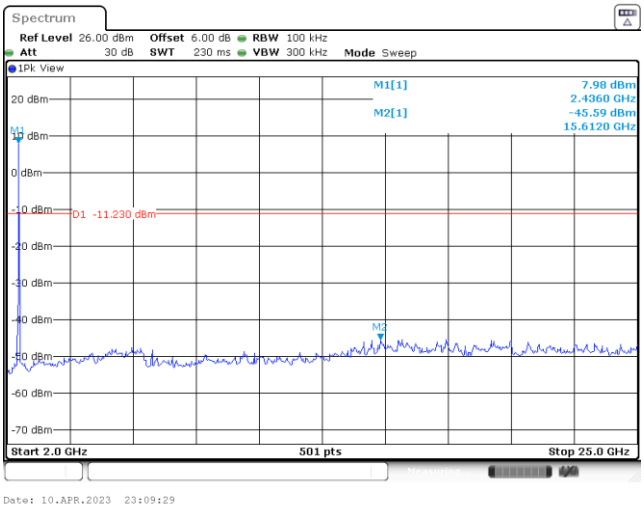
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11n HT20	Test Channel :	02

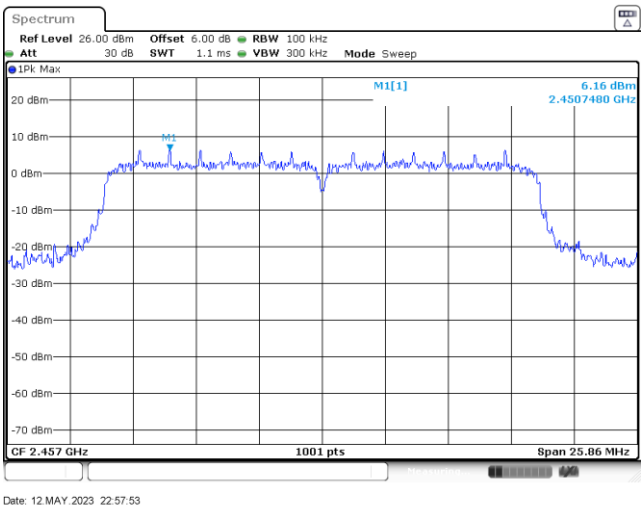
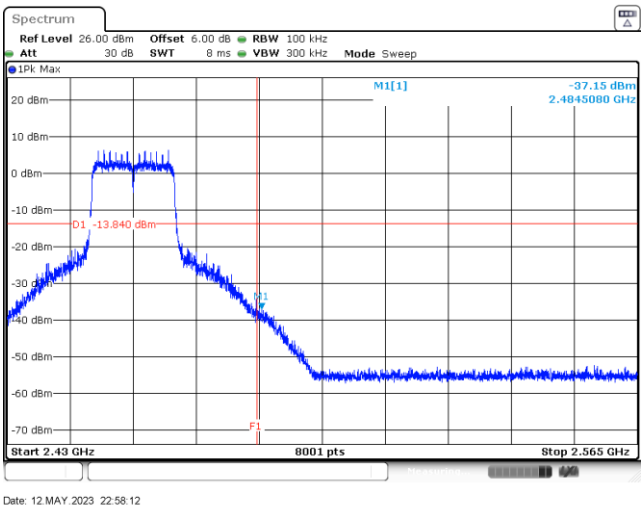
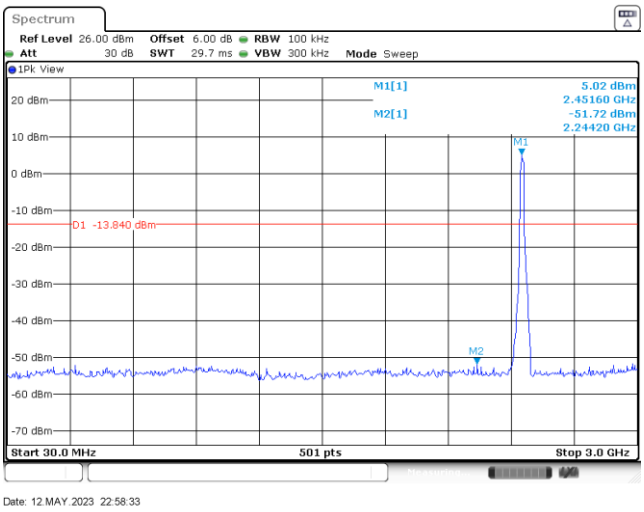
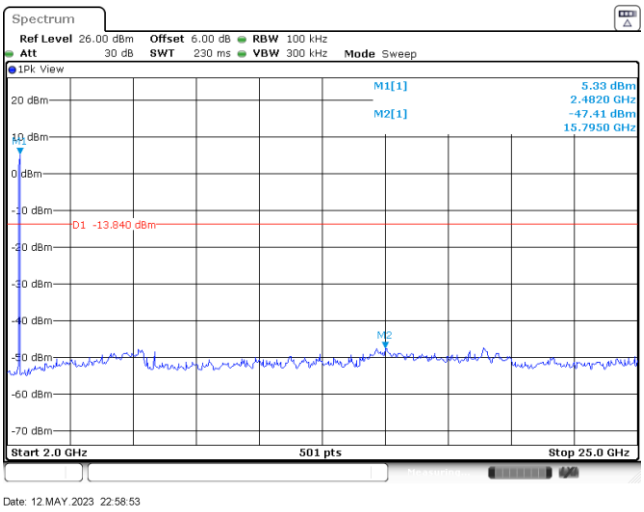
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11n HT20	Test Channel :	06

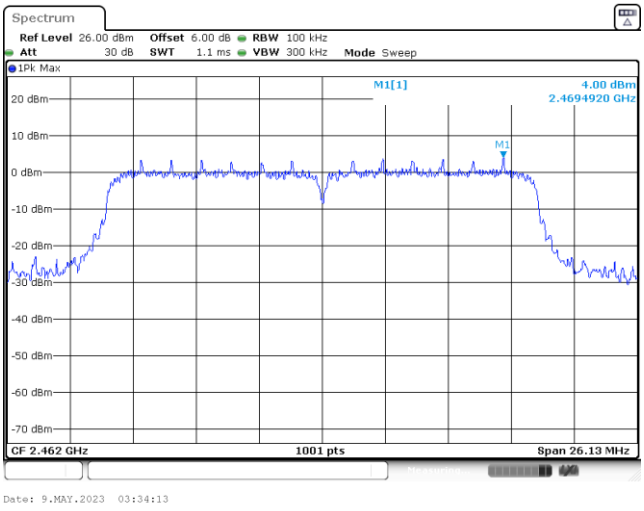
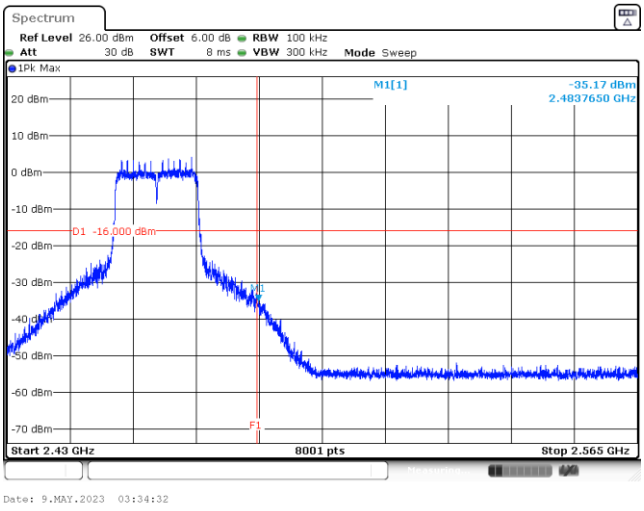
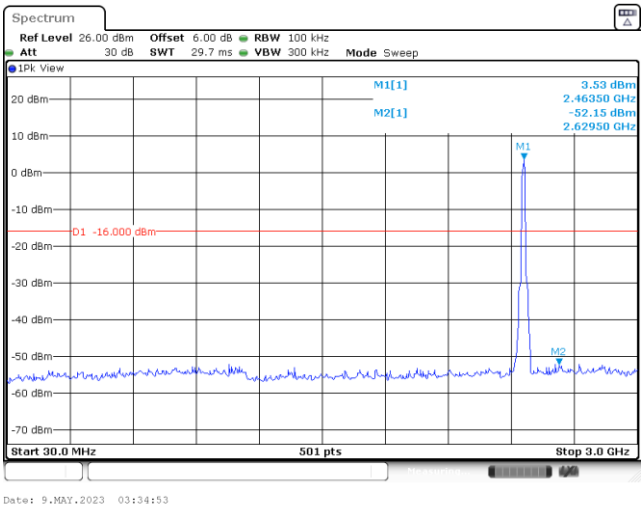
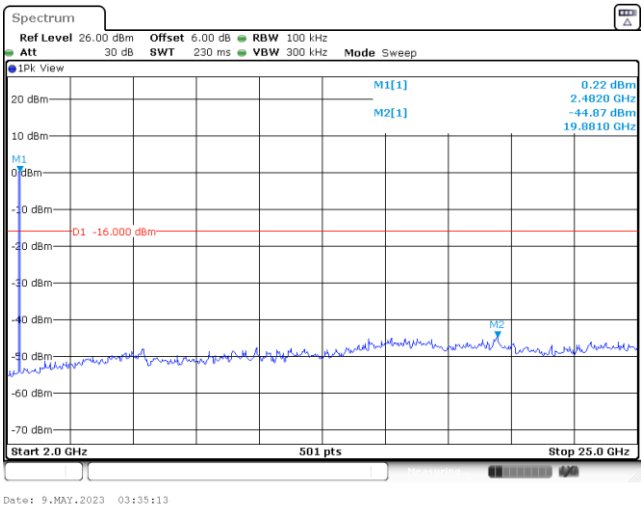
100kHz PSD reference Level	Channel Plot
	-

Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Test Mode :	802.11n HT20	Test Channel :	10

100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11n HT20	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

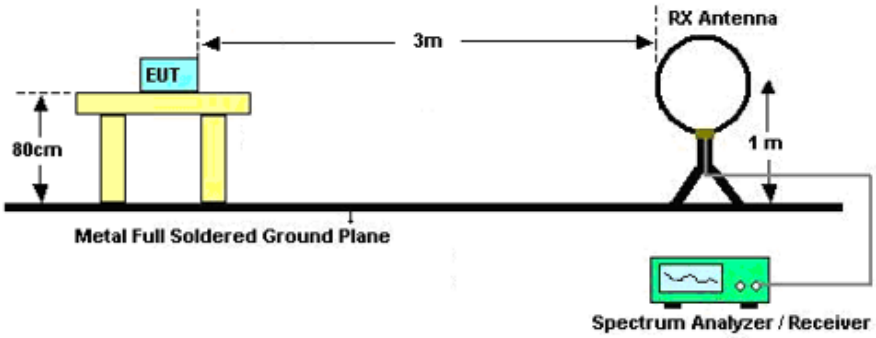
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

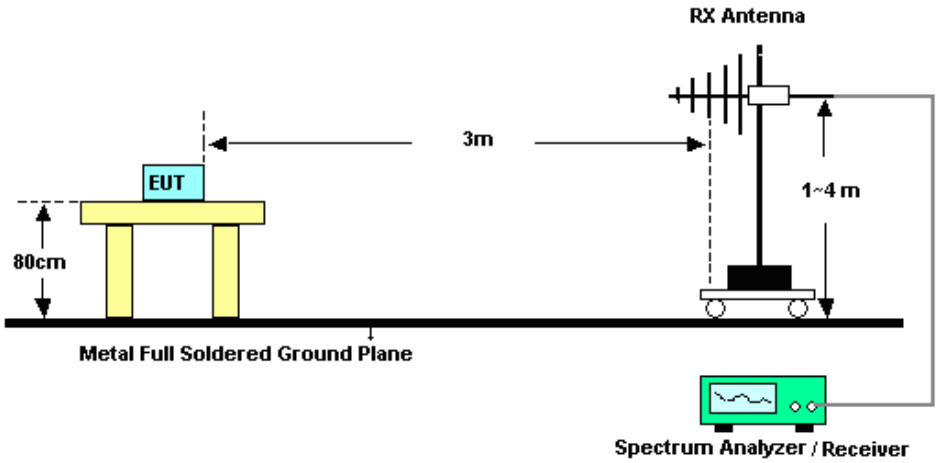
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

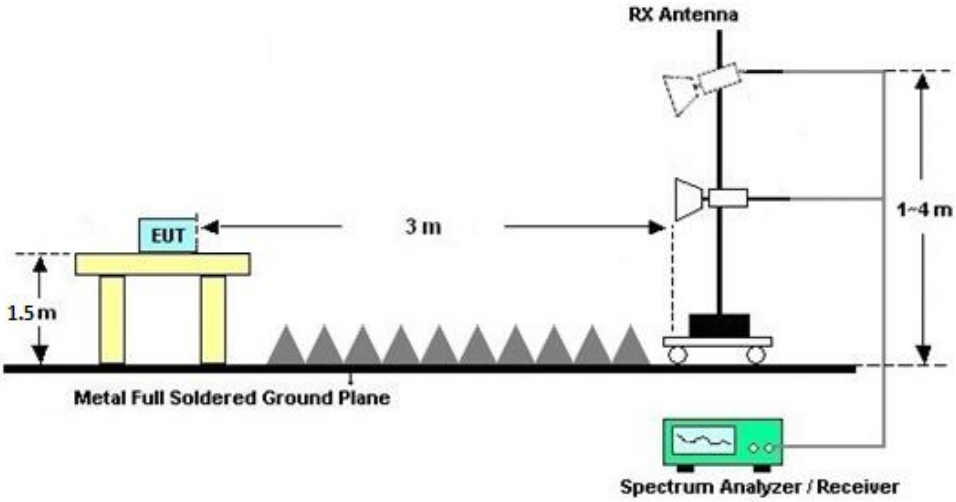
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.5.7 Duty Cycle

Please refer to Appendix D

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

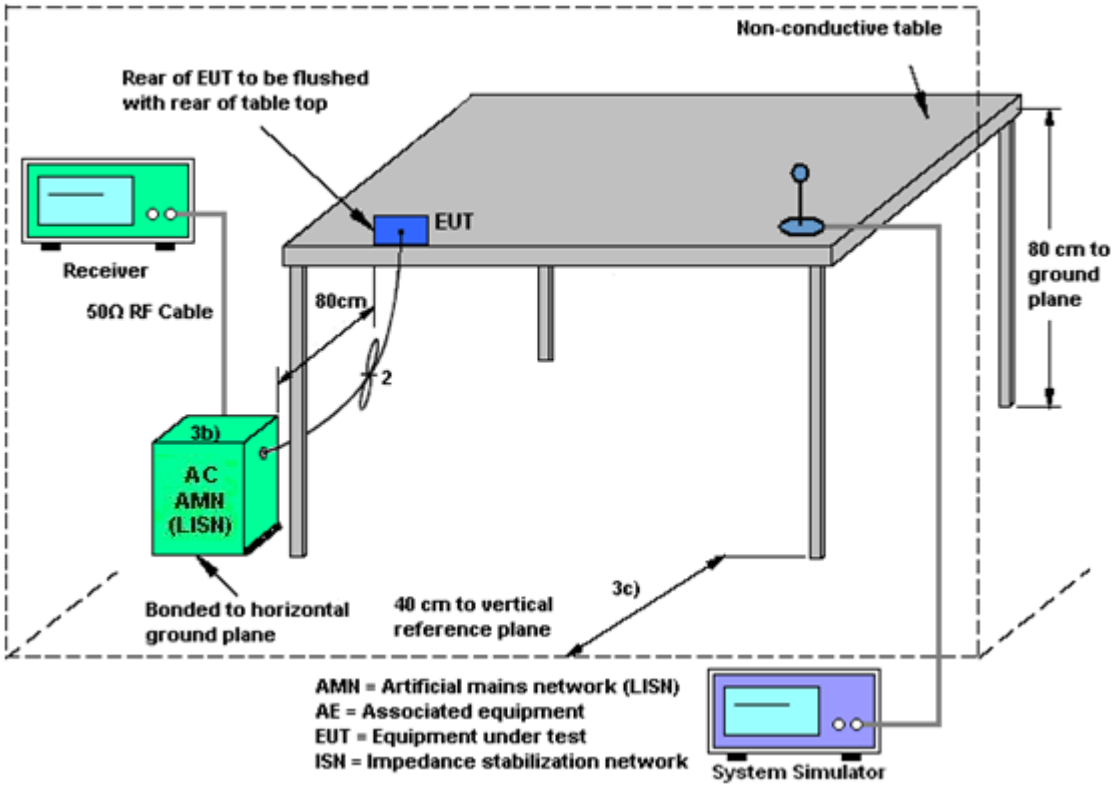
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	May 24, 2022	Apr. 10, 2023 ~May 12, 2023	May 23, 2023	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Apr. 10, 2023 ~May 12, 2023	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Apr. 10, 2023 ~May 12, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 06, 2022	Mar. 31, 2023 ~May 18, 2023	Apr. 05, 2023	Radiation (03CH03-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 04, 2023		Apr. 03, 2024	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 06, 2022	Mar. 31, 2023 ~May 18, 2023	Apr. 05, 2023	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 04, 2023		Apr. 03, 2024	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Mar. 31, 2023 ~May 18, 2023	Jul. 27, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 09, 2021	Mar. 31, 2023 ~May 18, 2023	Aug. 08, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2022	Mar. 31, 2023 ~May 18, 2023	Apr. 07, 2023	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 08, 2023		Apr. 07, 2024	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 06, 2022	Mar. 31, 2023 ~May 18, 2023	Jul.05, 2023	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Mar. 31, 2023 ~May 18, 2023	Apr. 09, 2023	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 08, 2023		Apr. 07, 2024	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Mar. 31, 2023 ~May 18, 2023	Oct. 18, 2023	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Mar. 31, 2023 ~May 18, 2023	Oct. 18, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Dec. 26, 2022	Mar. 31, 2023 ~May 18, 2023	Dec. 25, 2023	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	1 N/A	Nov. 10, 2022	Mar. 31, 2023 ~May 18, 2023	Nov. 09, 2023	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Mar. 31, 2023 ~May 18, 2023	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Mar. 31, 2023 ~May 18, 2023	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Apr. 19, 2023	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Apr. 19, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Apr. 19, 2023	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Apr. 19, 2023	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.001 %
Conducted Power Spectral Density	±0.40 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.94dB

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB

---------- THE END ----------

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Albert shi	Temperature:	21~25	°C
Test Date:	023/4/10~2023/5/12	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant1		
11b	1Mbps	1	1	2412	11.940	9.54	0.50	Pass
11b	1Mbps	1	6	2437	12.040	10.04	0.50	Pass
11b	1Mbps	1	11	2462	11.840	9.06	0.50	Pass
11g	6Mbps	1	1	2412	16.630	15.74	0.50	Pass
11g	6Mbps	1	2	2417	16.983	16.32	0.50	Pass
11g	6Mbps	1	6	2437	19.080	16.06	0.50	Pass
11g	6Mbps	1	11	2462	16.930	16.32	0.50	Pass
HT20	MCS0	1	1	2412	17.530	16.58	0.50	Pass
HT20	MCS0	1	2	2417	17.882	17.26	0.50	Pass
HT20	MCS0	1	6	2437	20.280	16.88	0.50	Pass
HT20	MCS0	1	10	2457	17.882	17.24	0.50	Pass
HT20	MCS0	1	11	2462	17.830	17.42	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)		Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant1	SUM	Ant1	Ant1	Ant1	Ant1	
11b	1Mbps	1	1	2412	22.58		30.00	-3.00	19.58	36.00	Pass
11b	1Mbps	1	6	2437	22.63		30.00	-3.00	19.63	36.00	Pass
11b	1Mbps	1	11	2462	22.30		30.00	-3.00	19.30	36.00	Pass
11g	6Mbps	1	1	2412	20.23		30.00	-3.00	17.23	36.00	Pass
11g	6Mbps	1	2	2417	24.17		30.00	-3.00	21.17	36.00	Pass
11g	6Mbps	1	6	2437	24.95		30.00	-3.00	21.95	36.00	Pass
11g	6Mbps	1	11	2462	23.58		30.00	-3.00	20.58	36.00	Pass
HT20	MCS0	1	1	2412	20.25		30.00	-3.00	17.25	36.00	Pass
HT20	MCS0	1	2	2417	24.15		30.00	-3.00	21.15	36.00	Pass
HT20	MCS0	1	6	2437	24.92		30.00	-3.00	21.92	36.00	Pass
HT20	MCS0	1	10	2457	24.51		30.00	-3.00	21.51	36.00	Pass
HT20	MCS0	1	11	2462	22.86		30.00	-3.00	19.86	36.00	Pass

TEST RESULTS DATA
Average Output Power

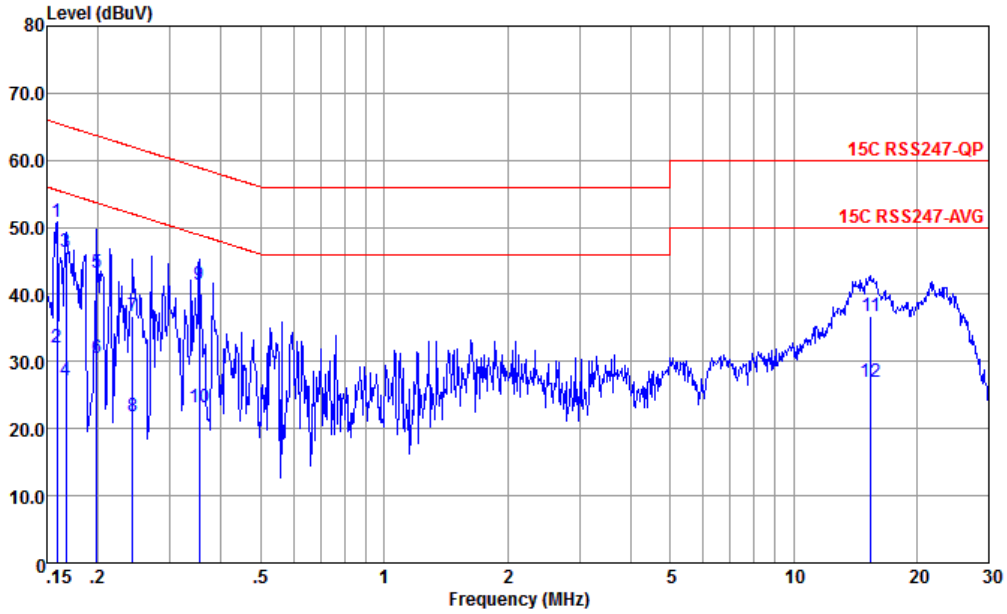
2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor		Conducted Power Limit	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant1	SUM	Ant1	Ant1	Ant1	Ant1	
11b	1Mbps	1	1	2412	0.11	19.24		30.00	-3.00	16.24	36.00	Pass
11b	1Mbps	1	6	2437	0.11	19.23		30.00	-3.00	16.23	36.00	Pass
11b	1Mbps	1	11	2462	0.11	18.87		30.00	-3.00	15.87	36.00	Pass
11g	6Mbps	1	1	2412	0.58	12.97		30.00	-3.00	9.97	36.00	Pass
11g	6Mbps	1	2	2417	0.58	17.33		30.00	-3.00	14.33	36.00	Pass
11g	6Mbps	1	6	2437	0.58	19.46		30.00	-3.00	16.46	36.00	Pass
11g	6Mbps	1	11	2462	0.58	16.70		30.00	-3.00	13.70	36.00	Pass
HT20	MCS0	1	1	2412	0.61	12.94		30.00	-3.00	9.94	36.00	Pass
HT20	MCS0	1	2	2417	0.61	17.37		30.00	-3.00	14.37	36.00	Pass
HT20	MCS0	1	6	2437	0.61	19.54		30.00	-3.00	16.54	36.00	Pass
HT20	MCS0	1	10	2457	0.61	17.86		30.00	-3.00	14.86	36.00	Pass
HT20	MCS0	1	11	2462	0.61	15.66		30.00	-3.00	12.66	36.00	Pass

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)		DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
					Ant1	Worse + 3.01	Ant1	Ant1	
11b	1Mbps	1	1	2412	-1.35		-3.00	8.00	Pass
11b	1Mbps	1	6	2437	-1.27		-3.00	8.00	Pass
11b	1Mbps	1	11	2462	-1.95		-3.00	8.00	Pass
11g	6Mbps	1	1	2412	-12.88		-3.00	8.00	Pass
11g	6Mbps	1	2	2417	-8.96		-3.00	8.00	Pass
11g	6Mbps	1	6	2437	-6.36		-3.00	8.00	Pass
11g	6Mbps	1	11	2462	-9.30		-3.00	8.00	Pass
HT20	MCS0	1	1	2412	-12.63		-3.00	8.00	Pass
HT20	MCS0	1	2	2417	-8.96		-3.00	8.00	Pass
HT20	MCS0	1	6	2437	-5.62		-3.00	8.00	Pass
HT20	MCS0	1	10	2457	-8.03		-3.00	8.00	Pass
HT20	MCS0	1	11	2462	-10.09		-3.00	8.00	Pass

Appendix B. AC Conducted Emission Test Results

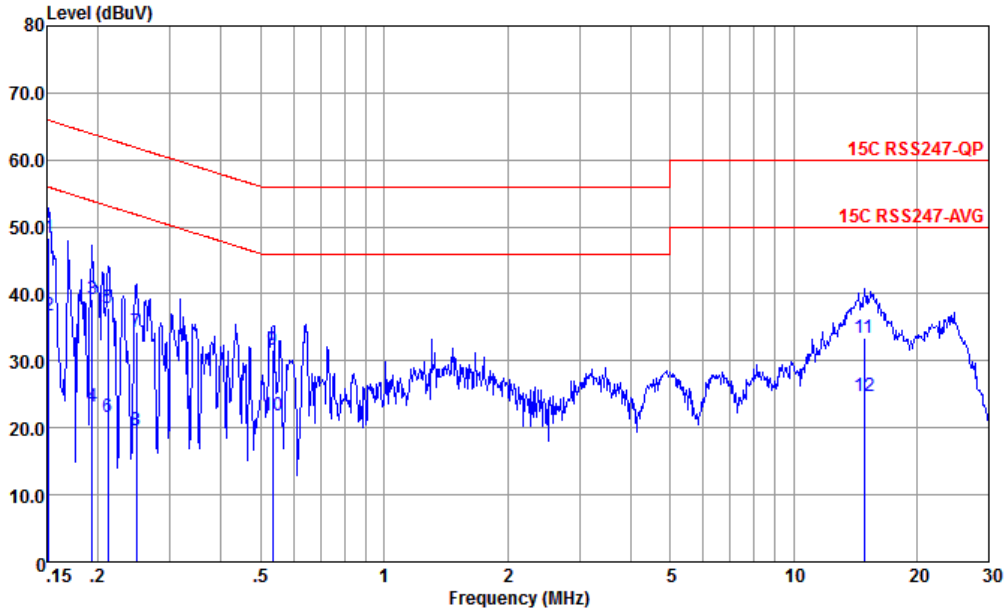
Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-LINE LINE

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.159	50.72	-14.80	65.52	40.20	0.06	10.46	QP
2		0.159	32.02	-23.50	55.52	21.50	0.06	10.46	Average
3		0.167	46.29	-18.83	65.12	35.80	0.05	10.44	QP
4		0.167	27.09	-28.03	55.12	16.60	0.05	10.44	Average
5		0.199	43.19	-20.48	63.67	32.80	0.02	10.37	QP
6		0.199	30.59	-23.08	53.67	20.20	0.02	10.37	Average
7		0.243	36.88	-25.12	62.00	26.50	0.04	10.34	QP
8		0.243	21.88	-30.12	52.00	11.50	0.04	10.34	Average
9		0.354	41.41	-17.46	58.87	31.10	0.03	10.28	QP
10		0.354	23.11	-25.76	48.87	12.80	0.03	10.28	Average
11		15.470	36.78	-23.22	60.00	26.60	-0.22	10.40	QP
12		15.470	26.98	-23.02	50.00	16.80	-0.22	10.40	Average

Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.152	48.31	-17.60	65.91	37.80	0.03	10.48	QP
2		0.152	36.81	-19.10	55.91	26.30	0.03	10.48	Average
3		0.193	39.33	-24.56	63.89	28.90	0.05	10.38	QP
4		0.193	23.23	-30.66	53.89	12.80	0.05	10.38	Average
5		0.212	37.89	-25.25	63.14	27.49	0.04	10.36	QP
6		0.212	21.59	-31.55	53.14	11.19	0.04	10.36	Average
7		0.248	34.23	-27.59	61.82	23.90	0.00	10.33	QP
8		0.248	19.63	-32.19	51.82	9.30	0.00	10.33	Average
9		0.535	31.65	-24.35	56.00	21.49	-0.08	10.24	QP
10		0.535	21.75	-24.25	46.00	11.59	-0.08	10.24	Average
11		14.907	33.41	-26.59	60.00	23.20	-0.18	10.39	QP
12		14.907	24.81	-25.19	50.00	14.60	-0.18	10.39	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	HuaCong Liang	**Relative Humidity :**	50%
		Temperature :	20~22℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	802.11g	01	2412	6Mbps	-	-
Mode 5	2400-2483.5	802.11g	06	2437	6Mbps	-	-
Mode 6	2400-2483.5	802.11g	11	2462	6Mbps	-	-
Mode 7	2400-2483.5	802.11n HT20	01	2412	MCS0	-	-
Mode 8	2400-2483.5	802.11n HT20	06	2437	MCS0	-	-
Mode 9	2400-2483.5	802.11n HT20	11	2462	MCS0	-	-
Mode 10	2400-2483.5	802.11g	02	2417	6Mbps	-	-
Mode 11	2400-2483.5	802.11n HT20	02	2417	MCS0	-	-
Mode 12	2400-2483.5	802.11n HT20	10	2457	MCS0	-	-
Mode 13	2400-2483.5	802.11g	11	2462	6Mbps	-	LF

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2389.30	43.06	54.00	-10.94	H	AVERAGE	Pass	Band Edge
	802.11b	01	4824.00	48.98	54.00	-5.02	V	Average	Pass	Harmonic
2	802.11b	06	2498.43	40.70	54.00	-13.30	H	AVERAGE	Pass	Band Edge
	802.11b	06	4874.00	50.02	54.00	-3.98	V	Average	Pass	Harmonic
3	802.11b	11	2483.62	43.91	54.00	-10.10	V	AVERAGE	Pass	Band Edge
	802.11b	11	4924.00	49.02	54.00	-4.98	V	Average	Pass	Harmonic
4	802.11g	01	2389.95	44.72	54.00	-9.28	V	AVERAGE	Pass	Band Edge
	802.11g	01	4824.00	43.78	74.00	-30.22	H	Peak	Pass	Harmonic
5	802.11g	06	2483.94	41.81	54.00	-12.19	H	AVERAGE	Pass	Band Edge
	802.11g	06	7311.00	45.99	74.00	-28.01	H	Peak	Pass	Harmonic
6	802.11g	11	2483.70	50.26	54.00	-3.74	H	AVERAGE	Pass	Band Edge
	802.11g	11	4924.00	44.74	74.00	-29.26	V	Peak	Pass	Harmonic
7	802.11n HT20	01	2389.95	46.09	54.00	-7.91	V	AVERAGE	Pass	Band Edge
	802.11n HT20	01	4824.00	43.29	74.00	-30.71	V	Peak	Pass	Harmonic
8	802.11n HT20	06	2483.94	41.71	54.00	-12.29	V	AVERAGE	Pass	Band Edge
	802.11n HT20	06	7311.00	46.21	74.00	-27.79	V	Peak	Pass	Harmonic
9	802.11n HT20	11	2483.66	69.69	74.00	-4.31	H	PEAK	Pass	Band Edge
	802.11n HT20	11	7386.00	45.35	74.00	-28.65	V	Peak	Pass	Harmonic
10	802.11g	02	2388.91	46.35	54.00	-7.65	H	AVERAGE	Pass	Band Edge
	802.11g	02	-	-	-	-	-	-	-	Harmonic
11	802.11n HT20	02	2389.56	46.75	54.00	-7.25	H	AVERAGE	Pass	Band Edge
	802.11n HT20	02	-	-	-	-	-	-	-	Harmonic
12	802.11n HT20	10	2483.55	47.31	54.00	-6.69	V	AVERAGE	Pass	Band Edge
	802.11n HT20	10	-	-	-	-	-	-	-	Harmonic
13	802.11g	11	262.8	35.08	46.00	-10.92	V	Peak	Pass	LF

Co-location

2.4GHz 2400~2483.5MHz

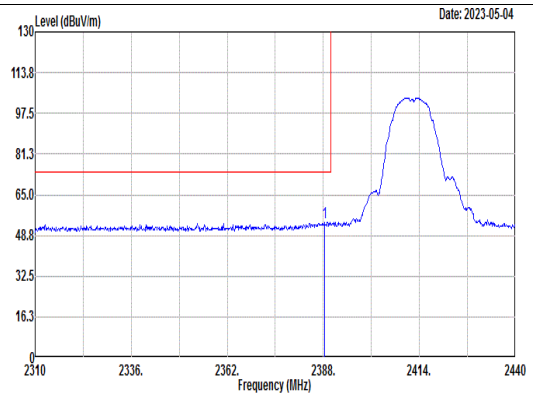
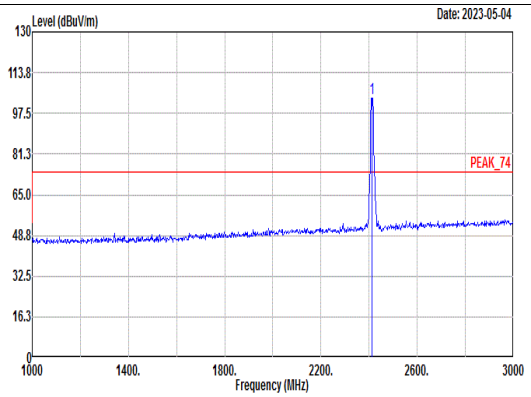
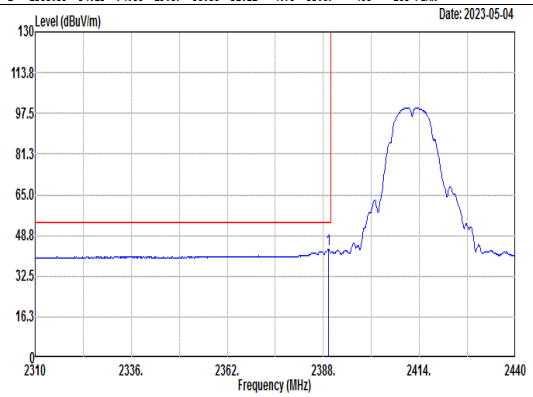
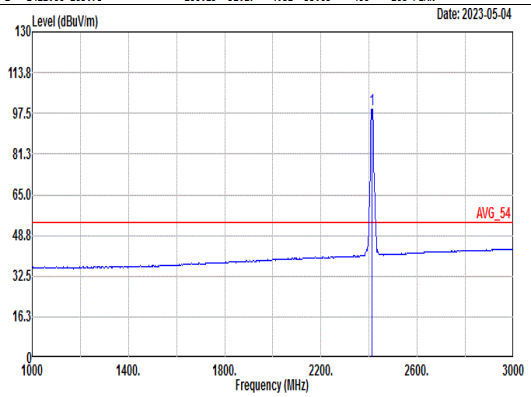
802.11g CH11 2462MHz+Band13 (Band Edge @ 3m)

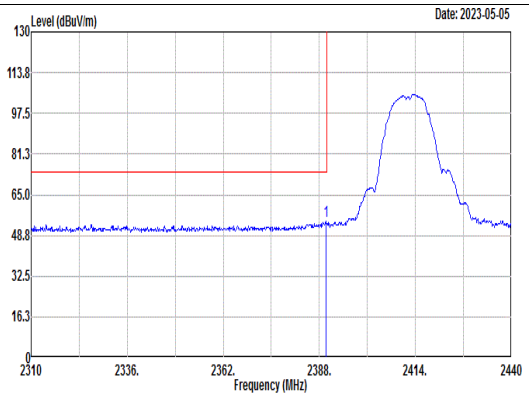
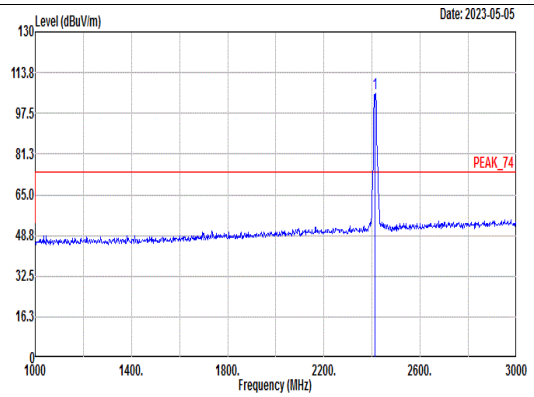
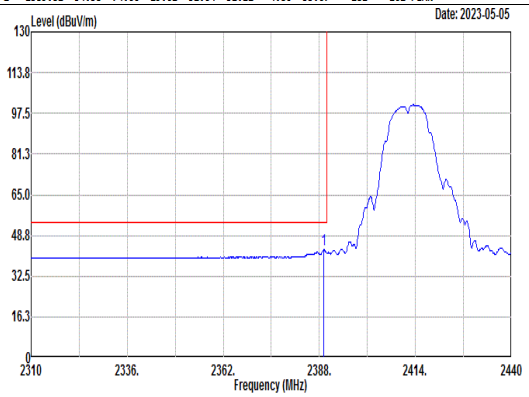
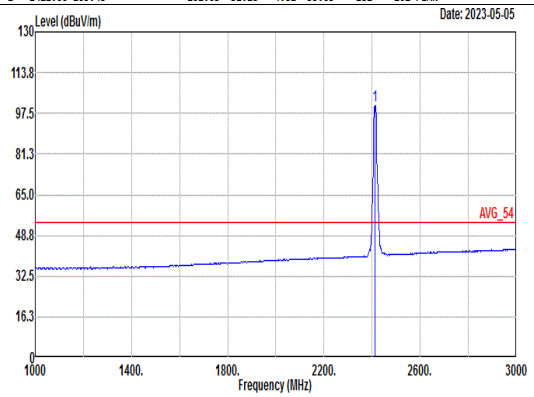
WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz & Band13 Co-location	*	2462	105.53	-	-	101.79	32.4	4.97	33.63	130	126	P	H
	*	2462	97.72	-	-	93.98	32.4	4.97	33.63	130	126	A	H
		2483.8	65.3	-8.7	74	61.47	32.46	4.99	33.62	130	126	P	H
		2483.52	49.8	-4.2	54	45.97	32.46	4.99	33.62	130	126	A	H
	*	2462	101.63	-	-	97.89	32.4	4.97	33.63	104	39	P	V
	*	2462	93.7	-	-	89.96	32.4	4.97	33.63	104	39	A	V
		2483.84	61.19	-12.81	74	57.36	32.46	4.99	33.62	104	39	P	V
		2483.52	46.57	-7.43	54	42.74	32.46	4.99	33.62	104	39	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

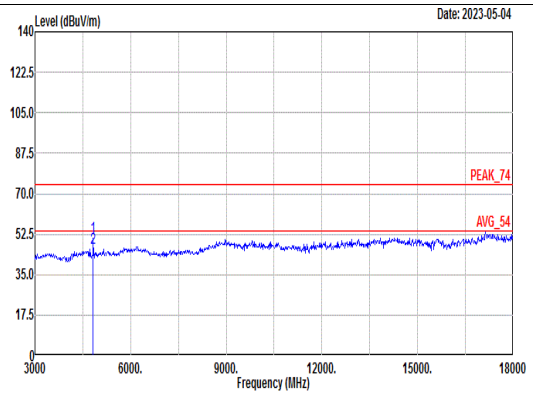
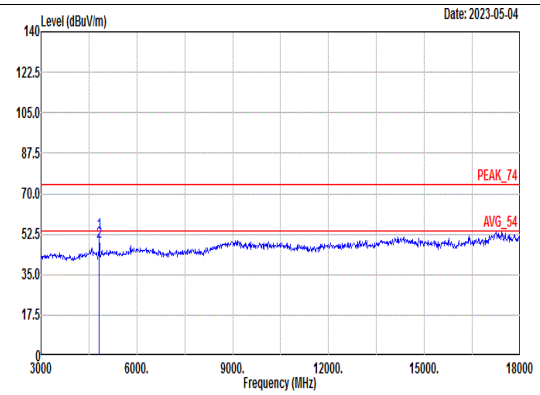
2.4GHz 2400~2483.5MHz

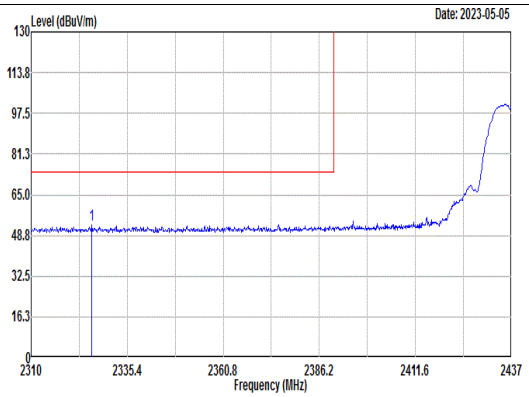
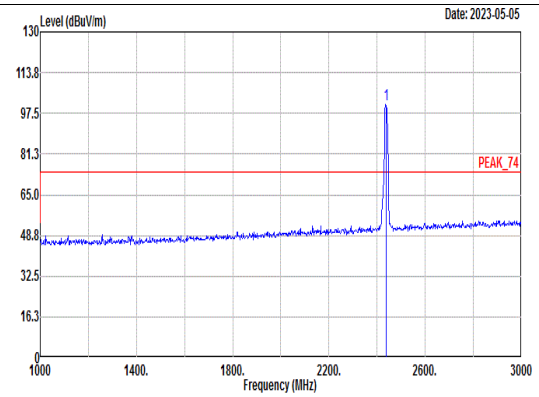
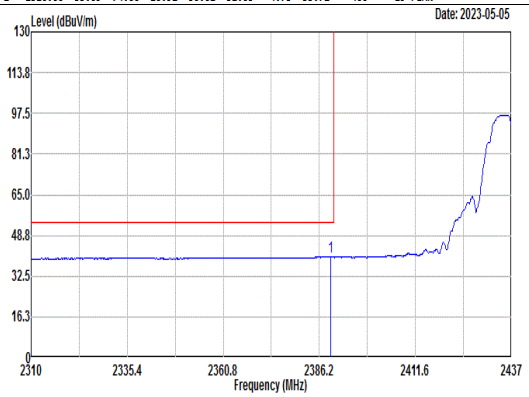
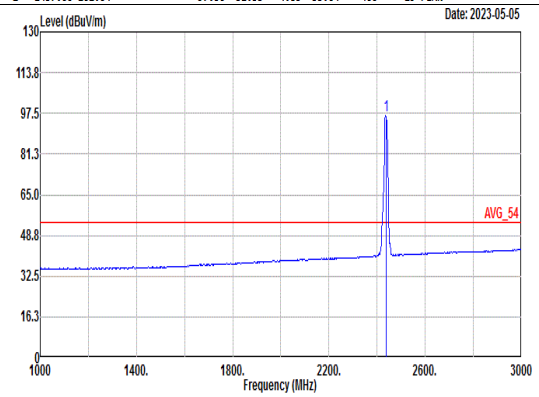
WIFI 802.11g (Harmonic @ 3m)

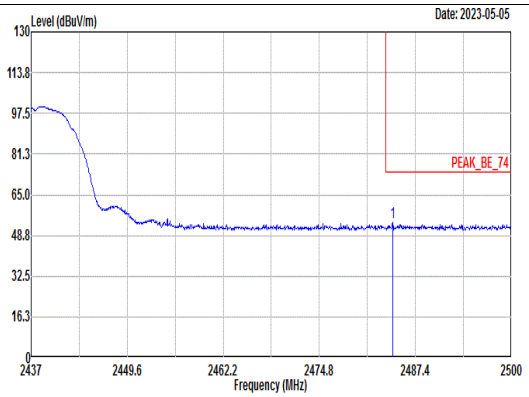
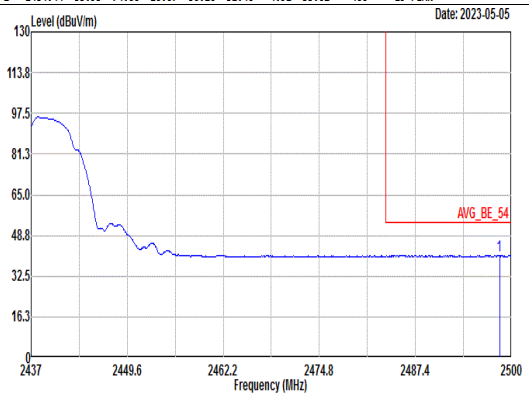
WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz & Band13 Co-location		4924	44.06	-29.94	74	54.41	34.63	7.8	52.78	-	-	P	H
		7386	43.71	-30.29	74	52.09	36.49	9.2	54.07	-	-	P	H
		4924	44.96	-29.04	74	55.31	34.63	7.8	52.78	-	-	P	V
		7386	45.01	-28.99	74	53.39	36.49	9.2	54.07	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

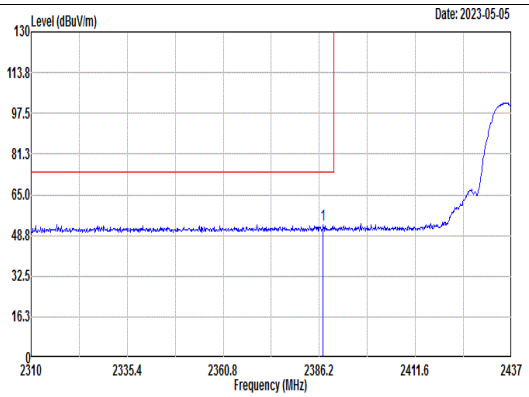
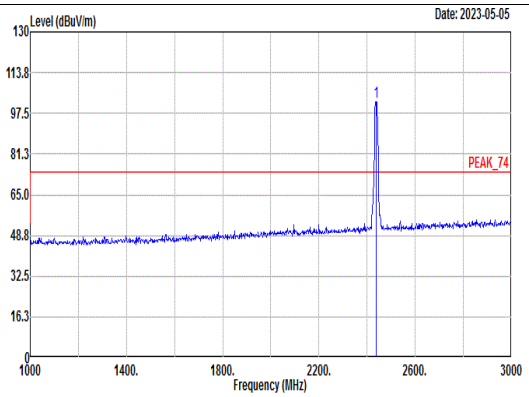
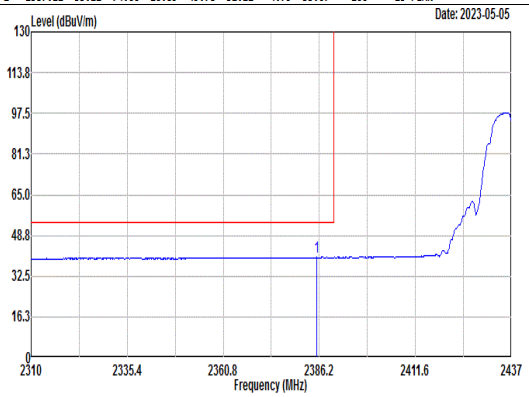
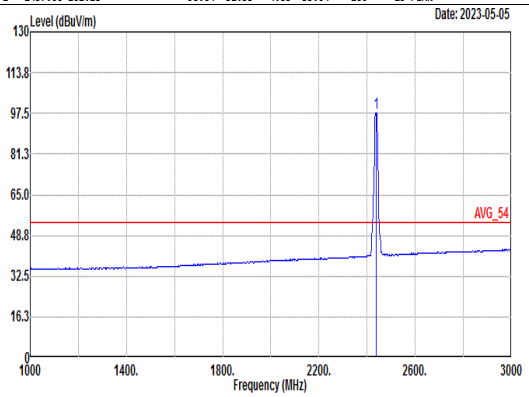
Mode	1	
	Band Edge	
	2400-2483.5_802.11b_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2388.39 54.13 74.00 -19.87 50.80 32.21 4.79 33.67 400 168 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 103.73 ------ ------ 100.29 32.27 4.82 33.65 400 168 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.30 43.06 54.00 -10.94 39.73 32.21 4.79 33.67 400 168 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 99.18 ------ ------ 95.75 32.27 4.82 33.66 400 168 AVERAGE

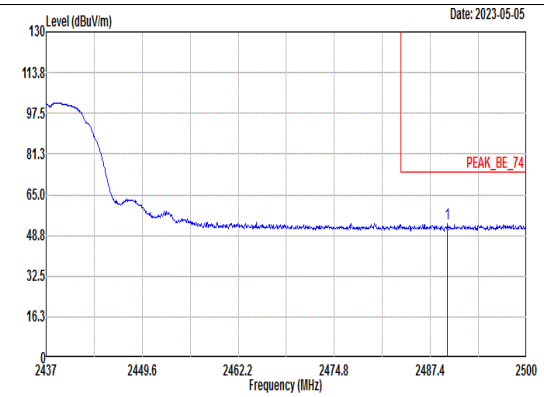
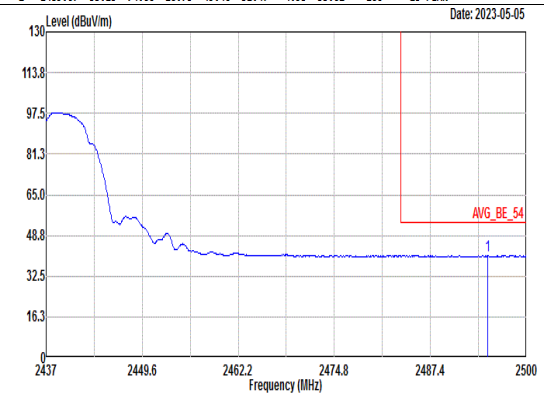
Mode	1	
	Band Edge	
	2400-2483.5_802.11b_CH01_2412MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.82 54.38 74.00 -19.62 51.04 32.21 4.80 33.67 182 161 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 105.48 ------ ------ 102.03 32.28 4.82 33.65 182 161 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:0.300kHz Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.17 43.00 54.00 -11.00 39.67 32.21 4.79 33.67 182 161 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:0.300kHz Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 100.69 ------ ------ 97.24 32.28 4.82 33.65 182 161 AVERAGE

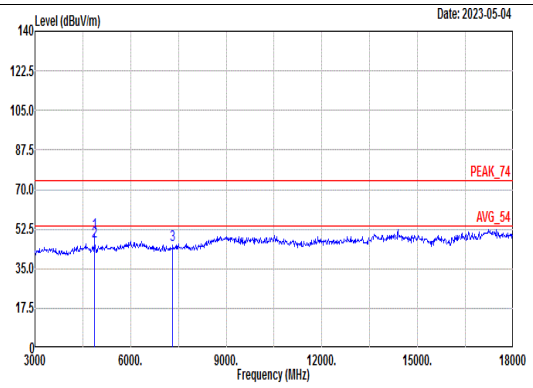
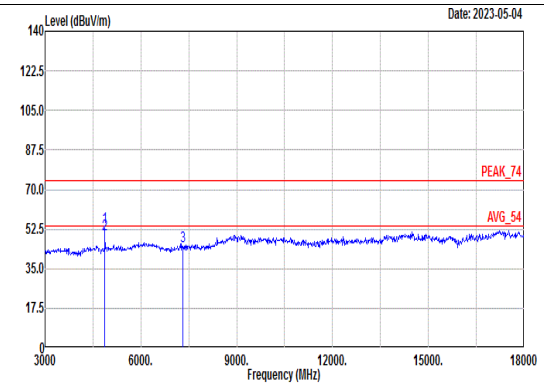
Mode	1	
	Harmonic	
	2400-2483.5_802.11b_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4824.00 51.09 74.00 -22.91 61.58 34.67 7.75 52.91 198 60 Peak 2 4824.00 46.41 54.00 -7.59 56.90 34.67 7.75 52.91 198 60 Average	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL Mode : 10 Setting : 1M Power setting 17 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4824.00 52.83 74.00 -21.17 63.32 34.67 7.75 52.91 150 343 Peak 2 4824.00 48.98 54.00 -5.02 59.47 34.67 7.75 52.91 150 343 Average

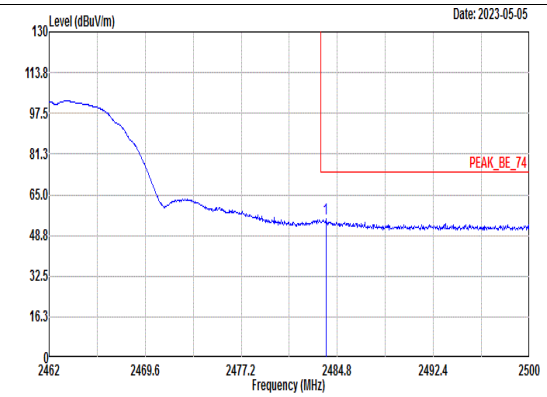
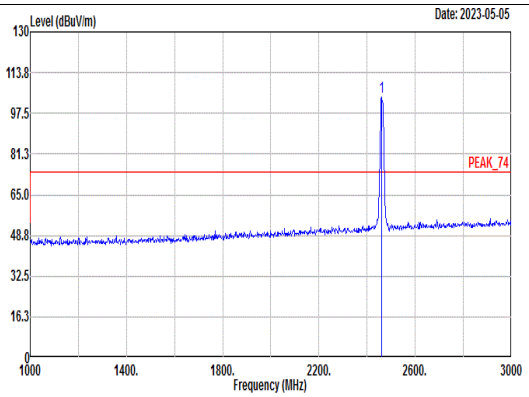
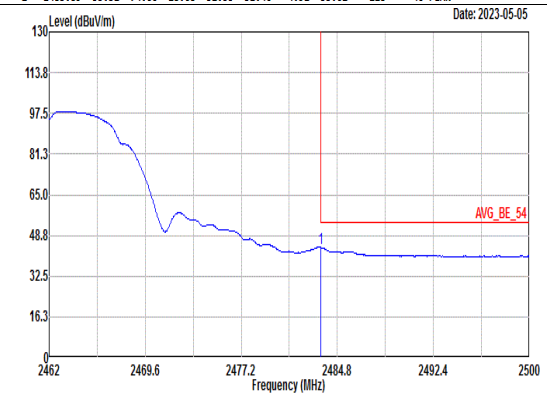
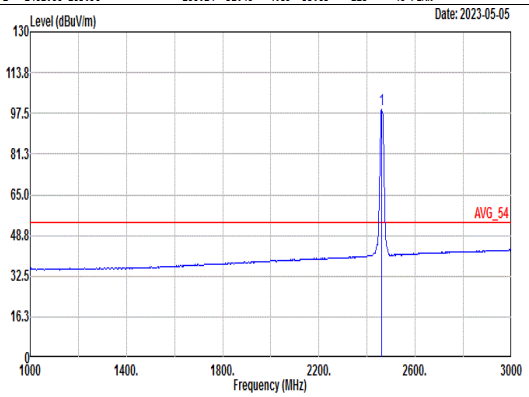
Mode	2	
	Band Edge - L	
	2400-2483.5_802.11b_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2326.00 53.09 74.00 -20.91 50.02 32.05 4.73 33.71 400 29 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 101.04 ------ ------ 97.50 32.33 4.85 33.64 400 29 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.12 40.24 54.00 -13.76 36.91 32.21 4.79 33.67 400 29 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 96.45 ------ ------ 92.91 32.33 4.85 33.64 400 29 AVERAGE

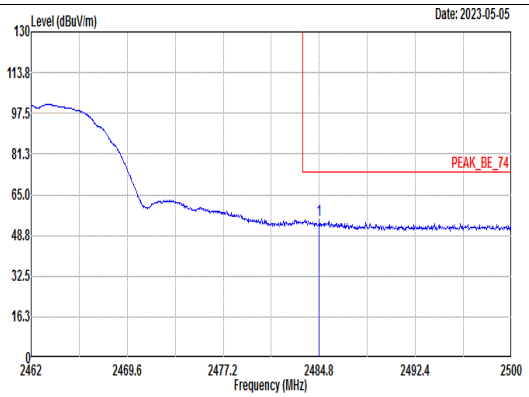
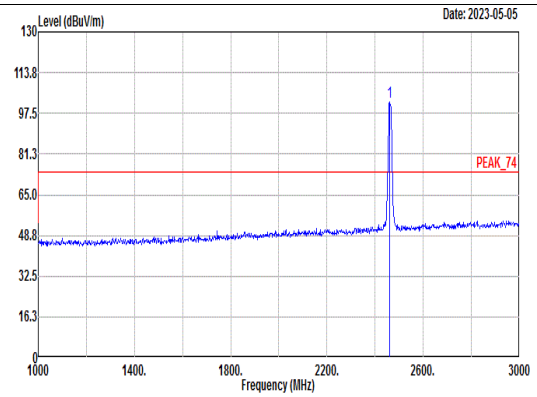
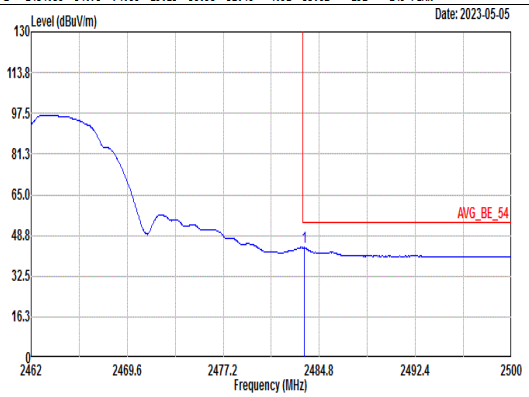
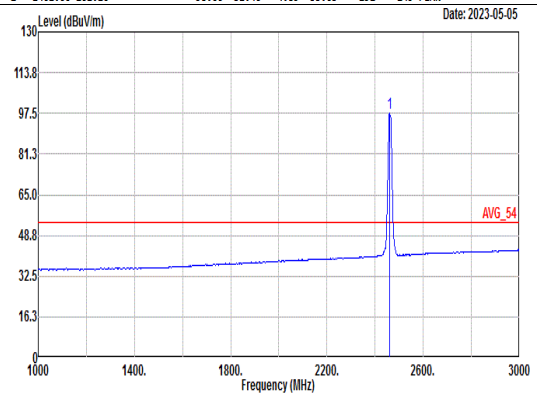
Mode	2	
	Band Edge - R	
	2400-2483.5_802.11b_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2484.44 53.93 74.00 -20.07 50.16 32.46 4.92 33.61 400 29 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:8.300kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2498.43 40.70 54.00 -13.30 36.86 32.50 4.94 33.60 400 29 AVERAGE	Blank

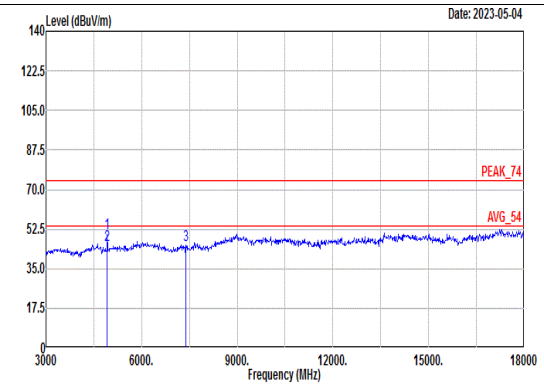
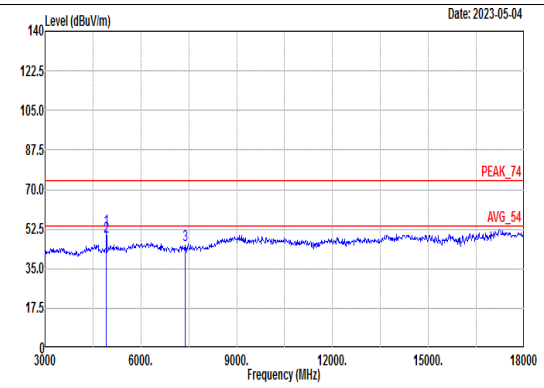
Mode	2	
	Band Edge - L	
	2400-2483.5_802.11b_CH06_2437MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2387.22 53.11 74.00 -20.89 49.78 32.21 4.79 33.67 200 15 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 102.18 ------ ------ 98.64 32.33 4.85 33.64 200 15 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:0.300kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2385.44 40.13 54.00 -13.87 36.81 32.20 4.79 33.67 200 15 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:0.300kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 97.66 ------ ------ 94.10 32.34 4.86 33.64 200 15 AVERAGE

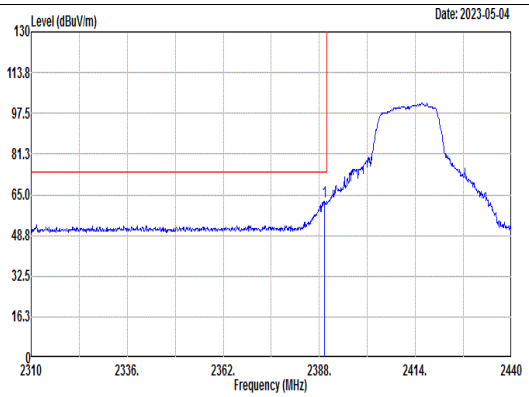
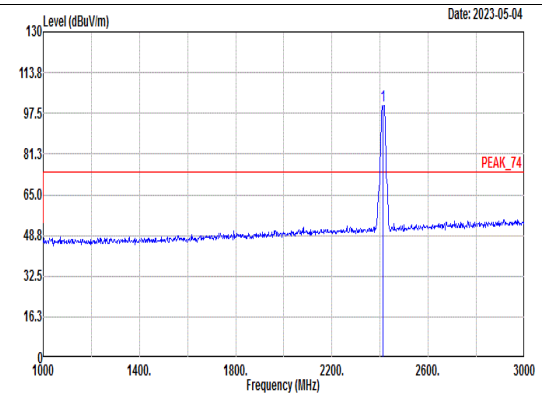
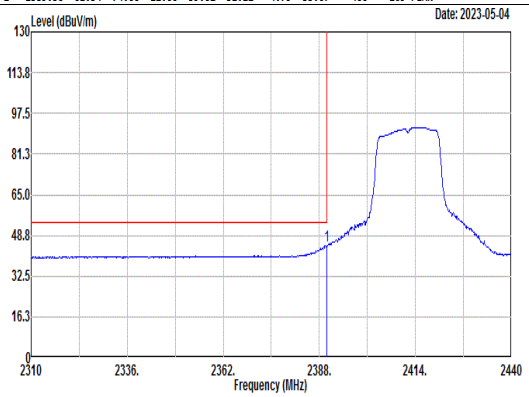
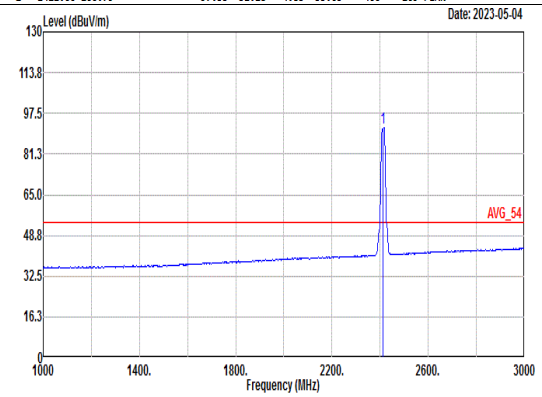
Mode	2	
	Band Edge - R	
	2400-2483.5_802.11b_CH06_2437MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2489.67 53.25 74.00 -20.75 49.46 32.47 4.93 33.61 200 15 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:0.300kHz Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2494.96 40.61 54.00 -13.39 36.78 32.49 4.94 33.60 200 15 AVERAGE	Blank

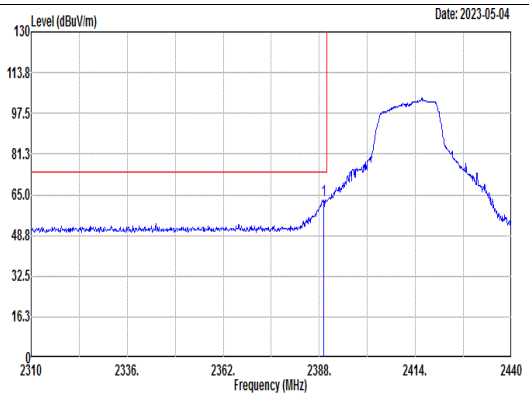
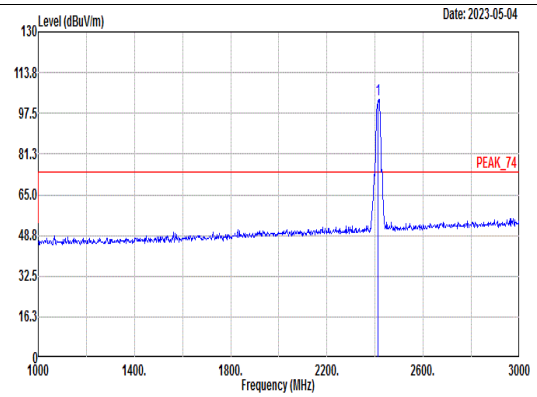
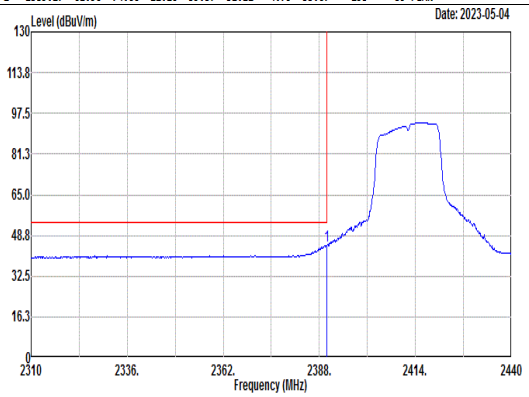
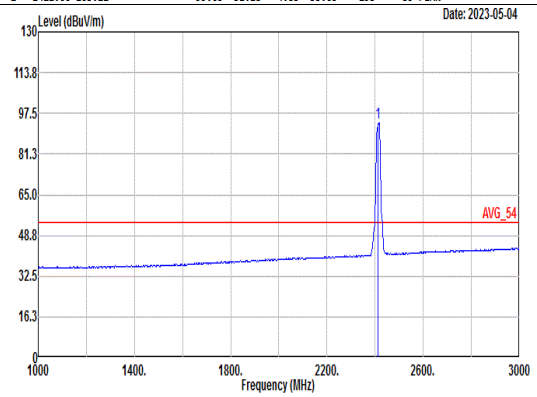
Mode	2	
	Harmonic	
	2400-2483.5_802.11b_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4874.00 50.60 74.00 -23.40 61.03 34.65 7.77 52.85 170 59 Peak 2 4874.00 46.96 54.00 -7.04 57.39 34.65 7.77 52.85 170 59 Average 3 7311.00 45.32 74.00 -28.68 54.09 36.41 8.93 54.11 --- --- Peak	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL Mode : 11 Setting : 1M Power setting 19 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4874.00 53.19 74.00 -20.81 63.62 34.65 7.77 52.85 143 344 Peak 2 4874.00 50.02 54.00 -3.98 60.45 34.65 7.77 52.85 143 344 Average 3 7311.00 45.12 74.00 -28.88 53.89 36.41 8.93 54.11 --- --- Peak

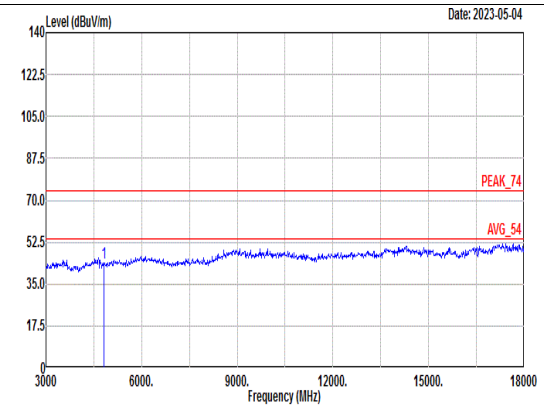
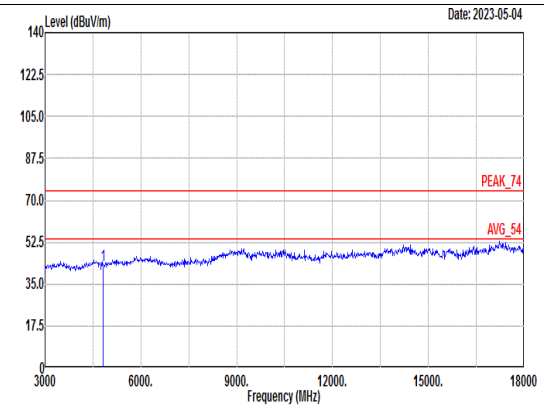
Mode	3	
	Band Edge	
	2400-2483.5_802.11b_CH11_2462MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.89 55.32 74.00 -18.68 51.55 32.46 4.92 33.61 118 40 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 103.90 ------ ------ 100.24 32.40 4.89 33.63 118 40 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.51 43.90 54.00 -10.10 40.13 32.46 4.92 33.61 118 40 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 99.14 ------ ------ 95.48 32.40 4.89 33.63 118 40 AVERAGE

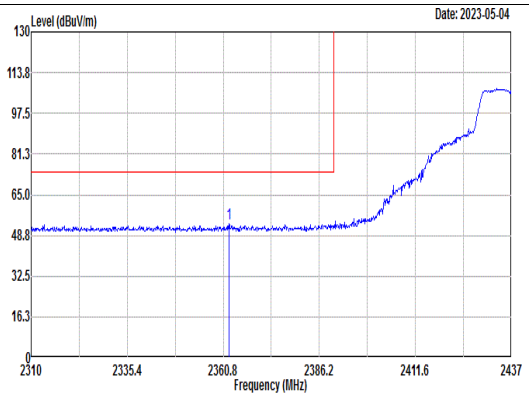
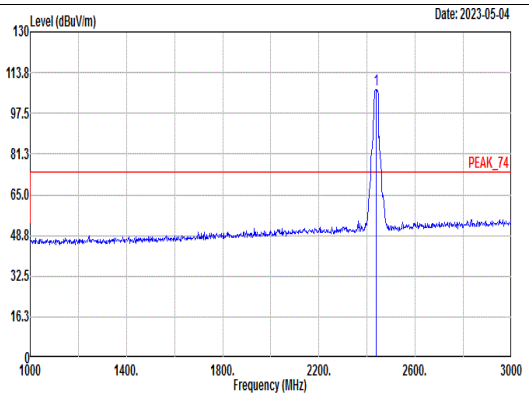
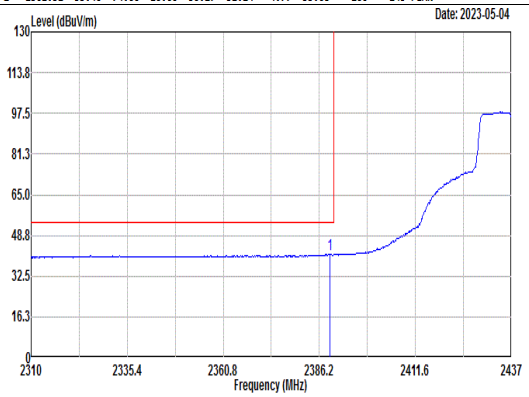
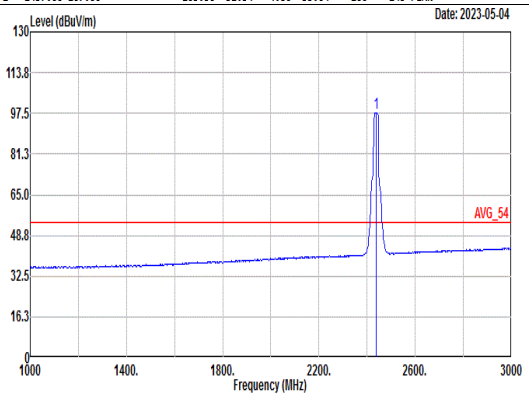
Mode	3	
	Band Edge	
	2400-2483.5_802.11b_CH11_2462MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2484.80 54.75 74.00 -19.25 50.98 32.46 4.92 33.61 191 149 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 102.26 ------ ------ 98.60 32.40 4.89 33.63 191 149 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:0.300kHz Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.62 43.91 54.00 -10.09 40.14 32.46 4.92 33.61 191 149 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:0.300kHz Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 97.47 ------ ------ 93.81 32.40 4.89 33.63 191 149 AVERAGE

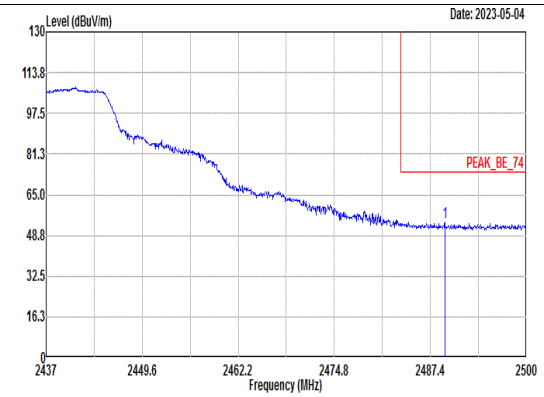
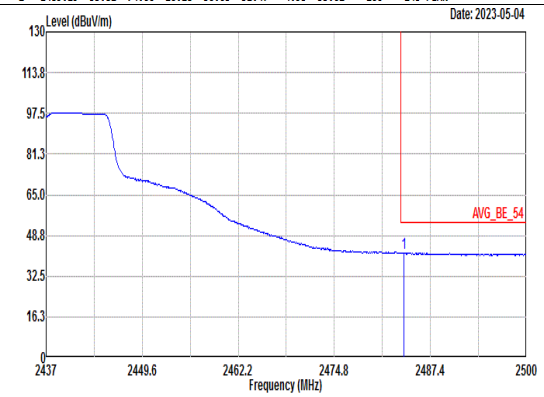
Mode	3	
	Harmonic	
	2400-2483.5_802.11b_CH11_2462MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4924.00 50.51 74.00 -23.49 60.88 34.63 7.79 52.79 177 56 Peak 2 4924.00 45.65 54.00 -8.35 56.02 34.63 7.79 52.79 177 56 Average 3 7386.00 45.43 74.00 -28.57 53.84 36.49 9.17 54.07 --- --- Peak	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL Mode : 12 Setting : 1M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4924.00 52.56 74.00 -21.44 62.93 34.63 7.79 52.79 153 343 Peak 2 4924.00 49.02 54.00 -4.98 59.39 34.63 7.79 52.79 153 343 Average 3 7386.00 45.18 74.00 -28.82 53.59 36.49 9.17 54.07 --- --- Peak

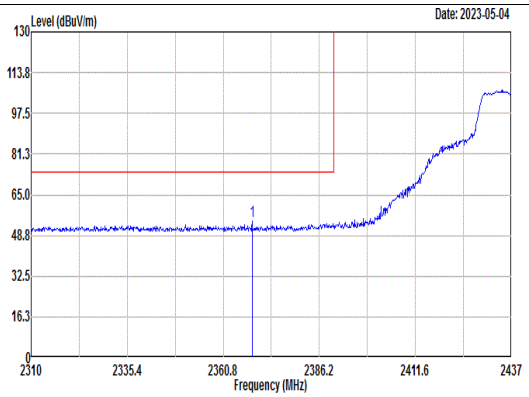
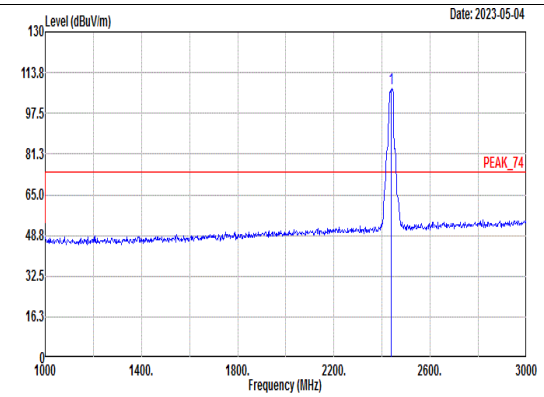
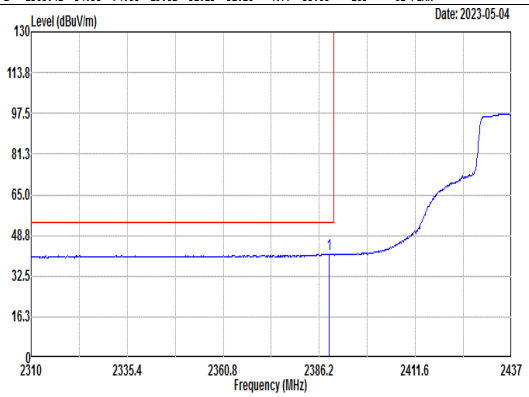
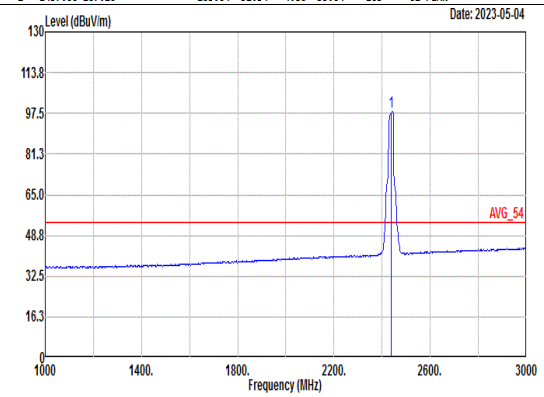
Mode	4	
	Band Edge	
	2400-2483.5_802.11g_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.30 62.34 74.00 -11.66 59.01 32.21 4.79 33.67 400 169 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 100.79 ------ ------ 97.33 32.28 4.83 33.65 400 169 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.95 44.69 54.00 -9.31 41.35 32.21 4.80 33.67 400 169 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 91.92 ------ ------ 88.46 32.28 4.83 33.65 400 169 AVERAGE

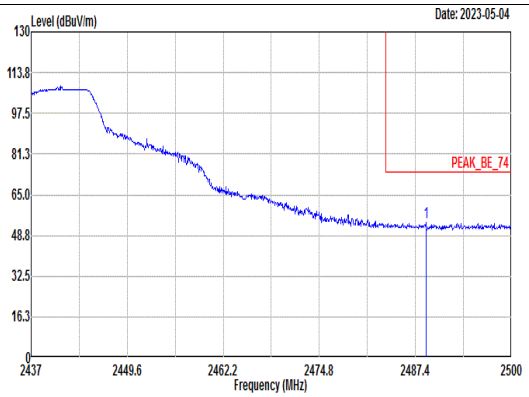
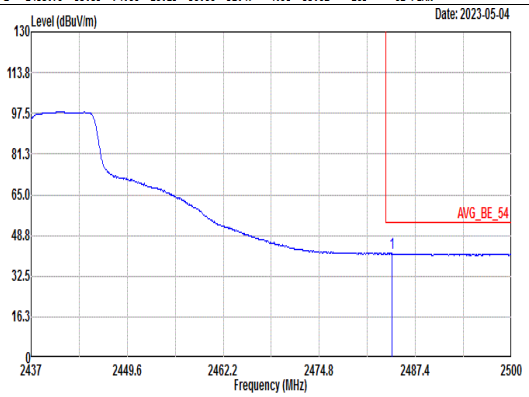
Mode	4	
	Band Edge	
	2400-2483.5_802.11g_CH01_2412MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.17 62.90 74.00 -11.10 59.57 32.21 4.79 33.67 193 59 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 103.11 ------ ------ 99.65 32.28 4.83 33.65 193 59 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.95 44.72 54.00 -9.28 41.38 32.21 4.80 33.67 193 59 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 93.59 ------ ------ 90.13 32.28 4.83 33.65 193 59 AVERAGE

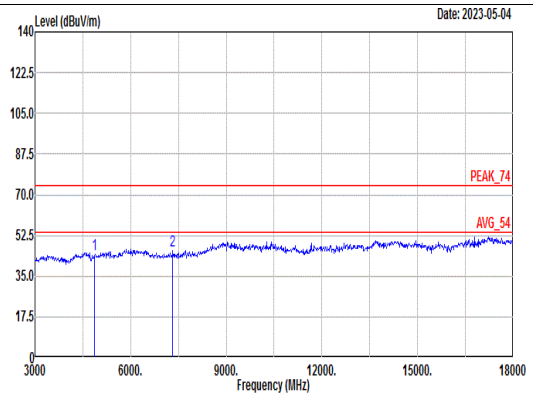
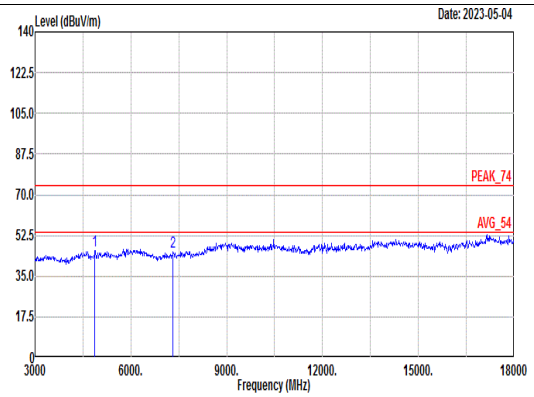
Mode	4	
	Harmonic	
	2400-2483.5_802.11g_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4824.00 43.78 74.00 -30.22 54.27 34.67 7.75 52.91 --- --- Peak	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL Mode : 13 Setting : 6M Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4824.00 42.63 74.00 -31.37 53.12 34.67 7.75 52.91 --- --- Peak

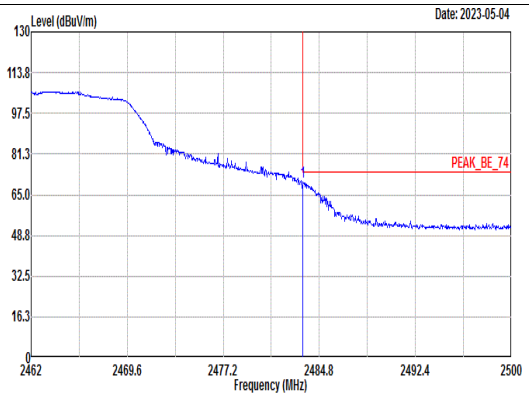
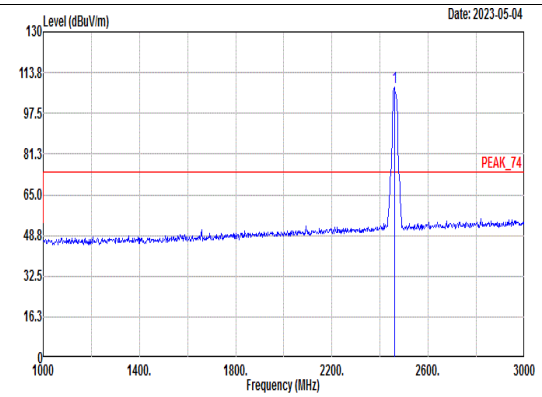
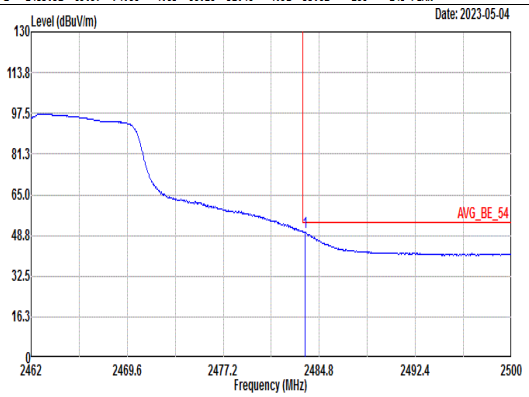
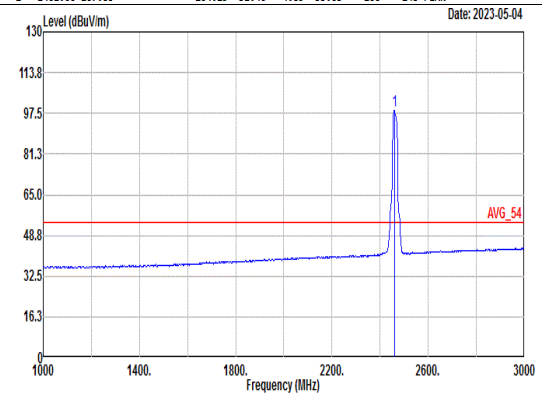
Mode	5	
	Band Edge - L	
	2400-2483.5_802.11g_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2362.32 53.40 74.00 -20.60 50.17 32.14 4.77 33.68 100 145 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 107.06 ------ ------ 103.50 32.34 4.86 33.64 100 145 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2388.99 41.28 54.00 -12.72 37.95 32.21 4.79 33.67 100 145 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 97.85 ------ ------ 94.31 32.33 4.85 33.64 100 145 AVERAGE

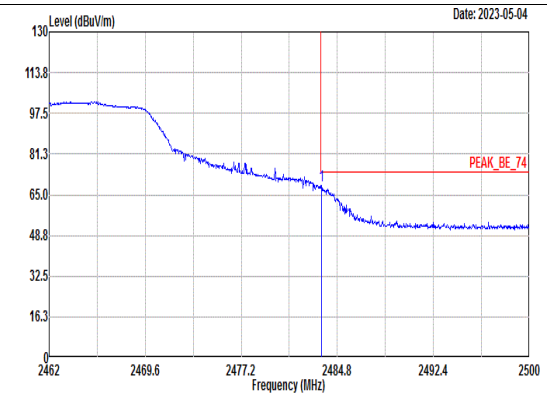
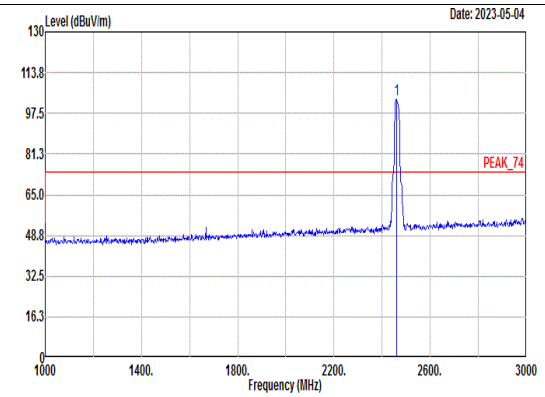
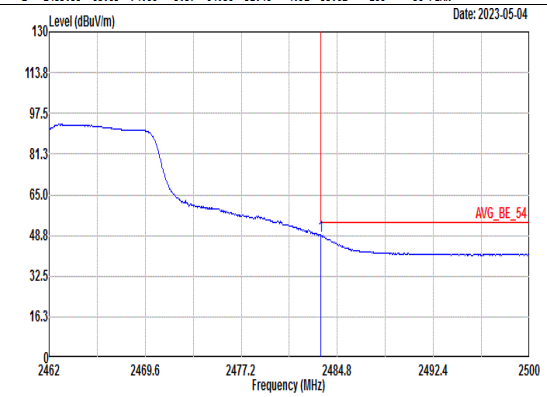
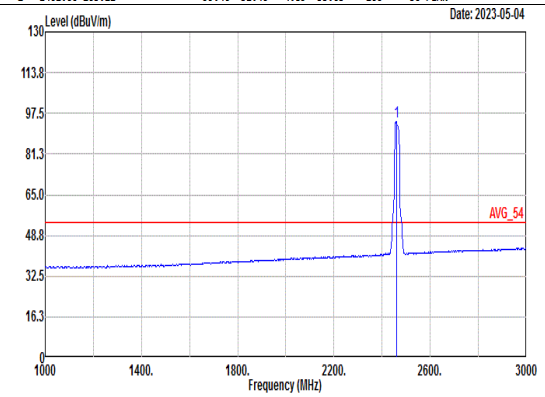
Mode	5	
	Band Edge - R	
	2400-2483.5_802.11g_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2489.29 53.82 74.00 -20.18 50.03 32.47 4.93 33.61 100 145 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.94 41.81 54.00 -12.19 38.04 32.46 4.92 33.61 100 145 AVERAGE	Blank

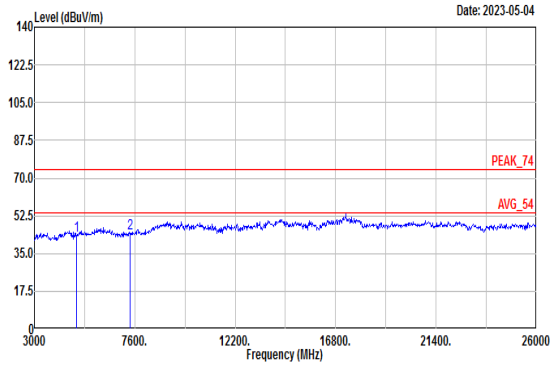
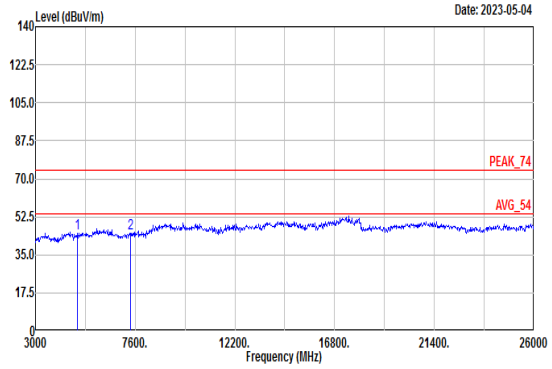
Mode	5	
	Band Edge - L	
	2400-2483.5_802.11g_CH06_2437MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 1 2368.42 54.38 74.00 -19.62 51.13 32.16 4.77 33.68 263 62 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 1 2437.00 107.20 ------ ------ 103.64 32.34 4.86 33.64 263 62 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 1 2388.74 41.42 54.00 -12.58 38.09 32.21 4.79 33.67 263 62 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 1 2437.00 98.06 ------ ------ 94.48 32.35 4.87 33.64 263 62 AVERAGE

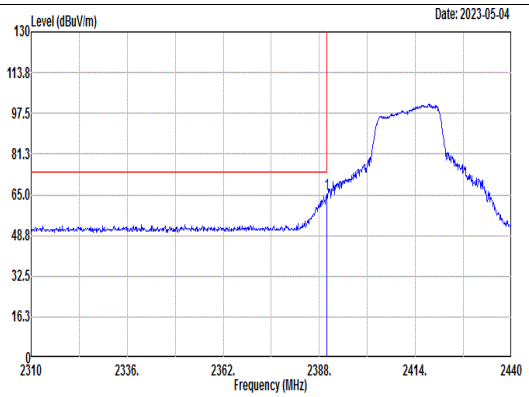
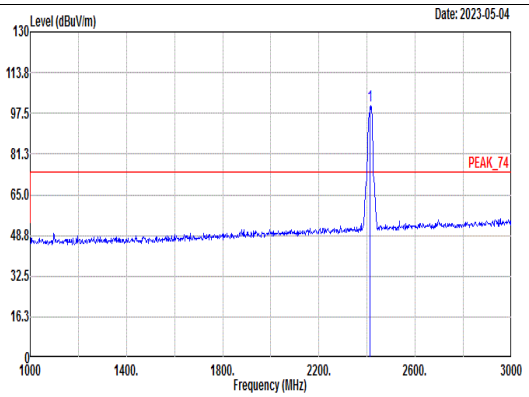
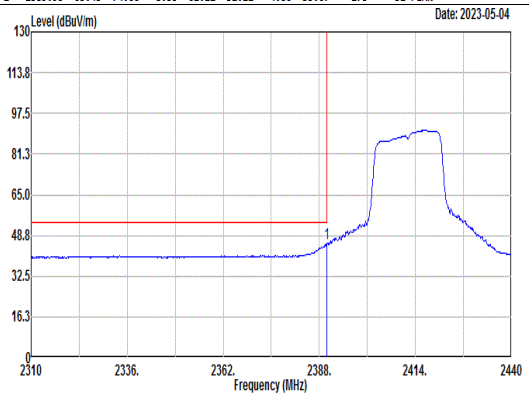
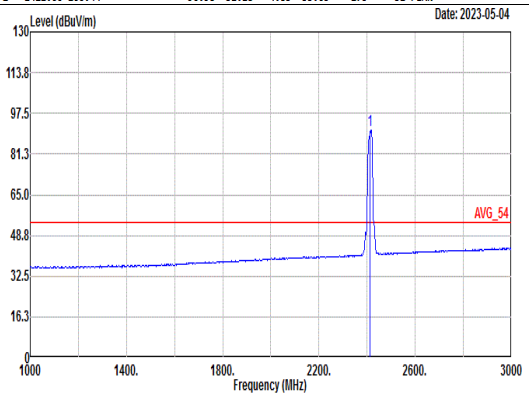
Mode	5	
	Band Edge - R	
	2400-2483.5_802.11g_CH06_2437MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2488.79 53.85 74.00 -20.15 50.06 32.47 4.93 33.61 263 62 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Limit Read Ant Cable Preamp APos TPos Freq Level Line Margin Level Factor Loss Factor Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2484.38 41.54 54.00 -12.46 37.77 32.46 4.92 33.61 263 62 AVERAGE	Blank

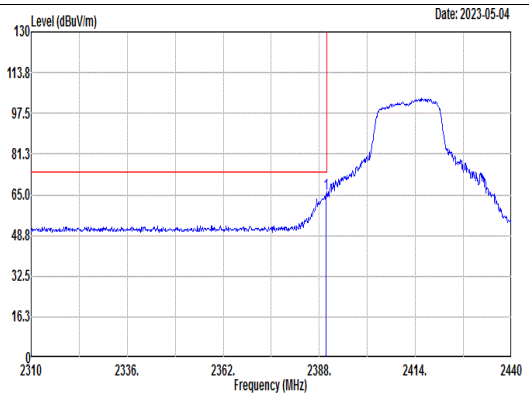
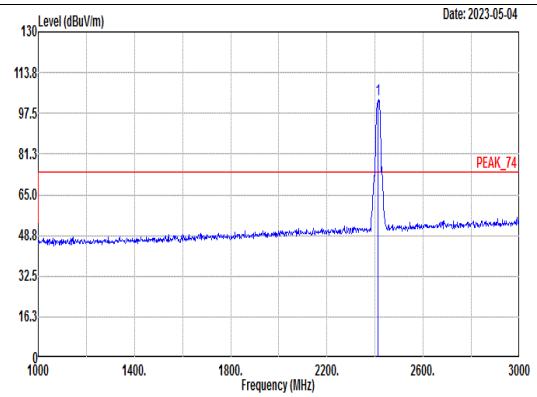
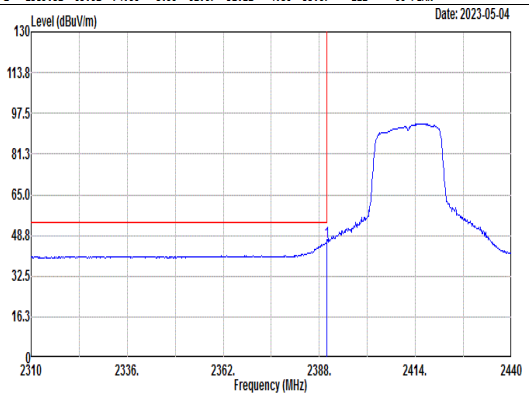
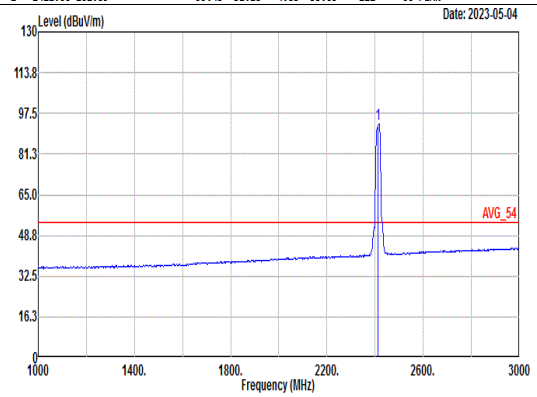
Mode	5	
	Harmonic	
	2400-2483.5_802.11g_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 1 4874.00 44.42 74.00 -29.58 54.85 34.65 7.77 52.85 --- --- Peak 2 7311.00 45.99 74.00 -28.01 54.76 36.41 8.93 54.11 --- --- Peak	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL Mode : 14 Setting : 6M Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 1 4874.00 45.75 74.00 -28.25 56.18 34.65 7.77 52.85 --- --- Peak 2 7311.00 45.59 74.00 -28.41 54.36 36.41 8.93 54.11 --- --- Peak

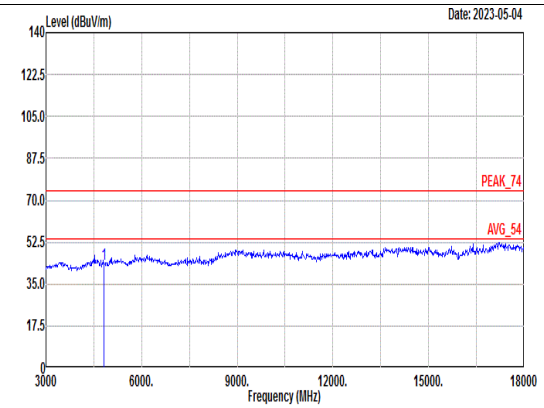
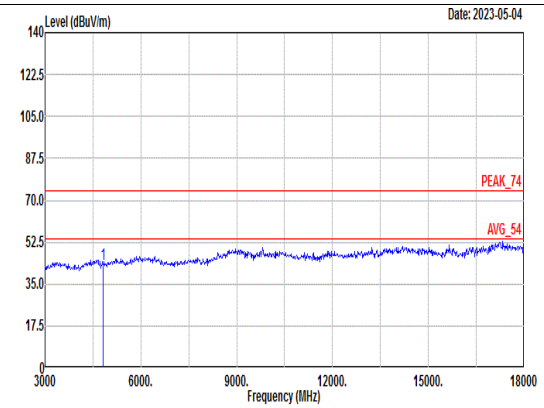
Mode	6	
	Band Edge	
	2400-2483.5_802.11g_CH11_2462MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.51 69.97 74.00 -4.03 66.20 32.46 4.92 33.61 100 145 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 107.85 ------ ------ 104.19 32.40 4.89 33.63 100 145 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.70 50.26 54.00 -3.74 46.49 32.46 4.92 33.61 100 145 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 98.44 ------ ------ 94.78 32.40 4.89 33.63 100 145 AVERAGE

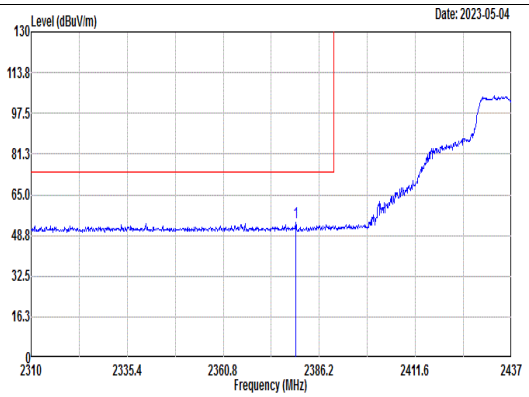
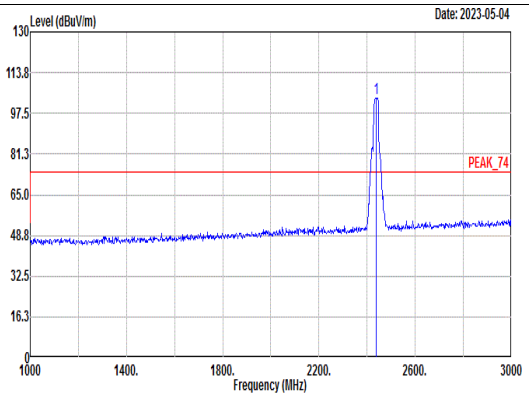
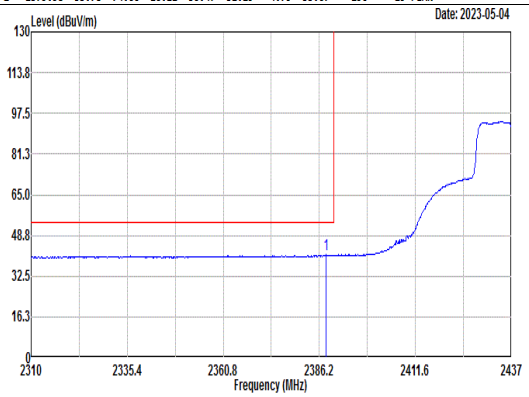
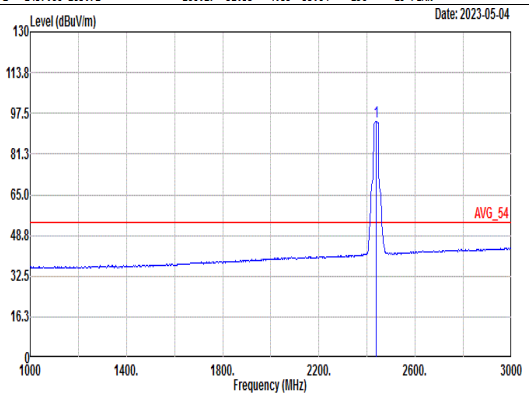
Mode	6	
	Band Edge	
	2400-2483.5_802.11g_CH11_2462MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.55 68.63 74.00 -5.37 64.86 32.46 4.92 33.61 200 50 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 103.12 ------ ------ 99.46 32.40 4.89 33.63 200 50 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.51 48.68 54.00 -5.32 44.91 32.46 4.92 33.61 200 50 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2462.00 94.18 ------ ------ 90.54 32.39 4.88 33.63 200 50 AVERAGE

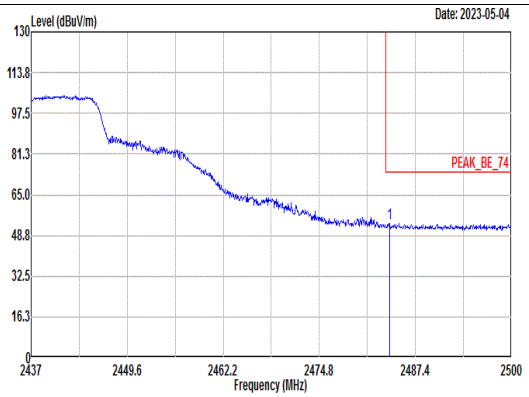
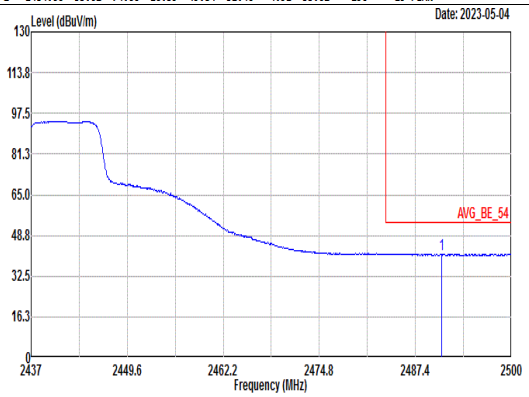
Mode	6	
	Harmonic	
	2400-2483.5_802.11g_CH11_2462MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4924.00 43.28 74.00 -30.72 53.65 34.63 7.79 52.79 --- --- Peak 2 7386.00 44.31 74.00 -29.69 52.72 36.49 9.17 54.07 --- --- Peak	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL Mode : 15 Setting : 6M Power setting 15 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4924.00 44.74 74.00 -29.26 55.11 34.63 7.79 52.79 --- --- Peak 2 7386.00 44.68 74.00 -29.32 53.09 36.49 9.17 54.07 --- --- Peak

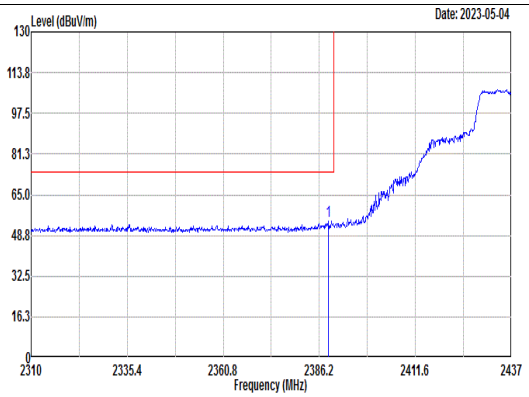
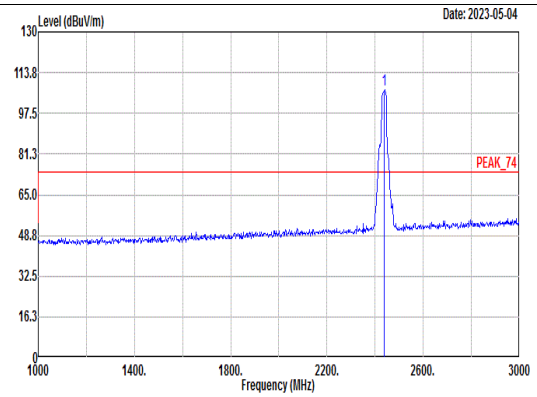
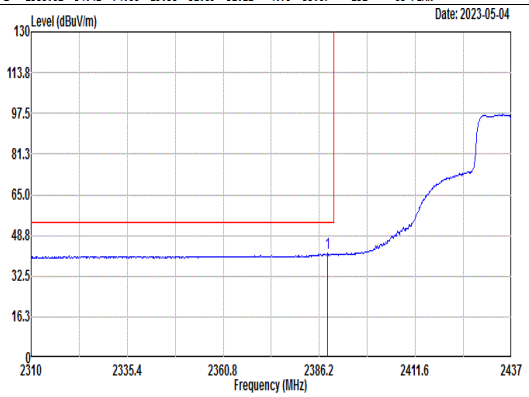
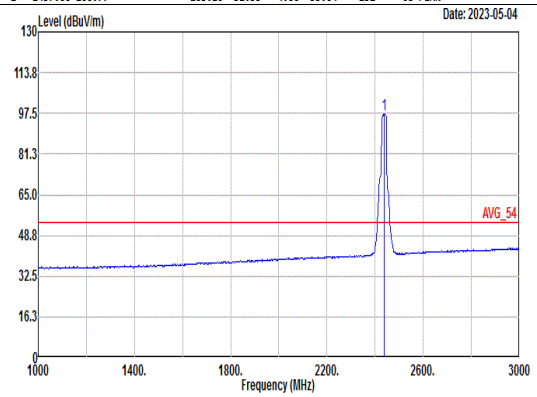
Mode	7	
	Band Edge	
	2400-2483.5_802.11n HT20_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 16 Setting : MCS 0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.95 65.45 74.00 -8.55 62.11 32.21 4.80 33.67 175 32 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 16 Setting : MCS 0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 100.44 ------ ------ 96.98 32.28 4.83 33.65 175 32 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 16 Setting : MCS 0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.95 45.61 54.00 -8.39 42.27 32.21 4.80 33.67 175 32 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 16 Setting : MCS 0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 90.63 ------ ------ 87.16 32.29 4.83 33.65 175 32 AVERAGE

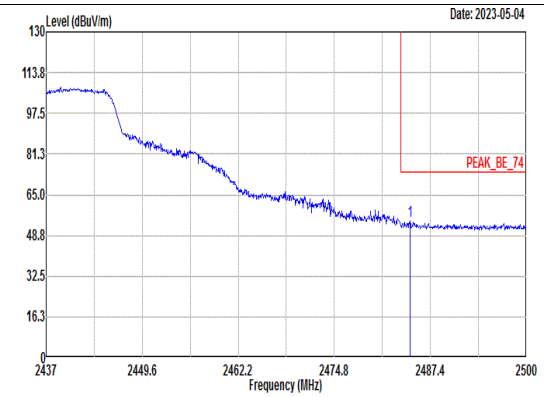
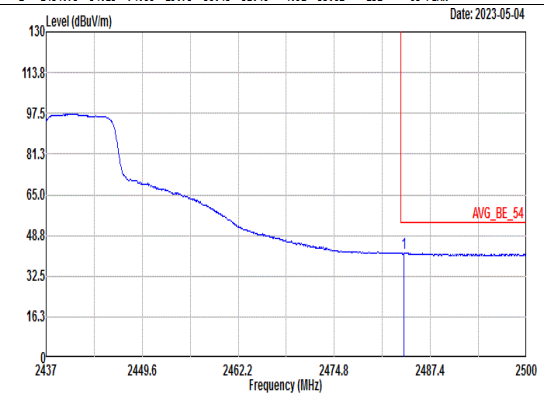
Mode	7	
	Band Edge	
	2400-2483.5_802.11n HT20_CH01_2412MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 16 Setting : MCS 0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.82 65.01 74.00 -8.99 61.67 32.21 4.80 33.67 211 66 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 16 Setting : MCS 0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 102.89 ------ ------ 99.43 32.28 4.83 33.65 211 66 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 16 Setting : MCS 0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2389.95 46.09 54.00 -7.91 42.75 32.21 4.80 33.67 211 66 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 16 Setting : MCS 0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2412.00 93.26 ------ ------ 89.80 32.28 4.83 33.65 211 66 AVERAGE

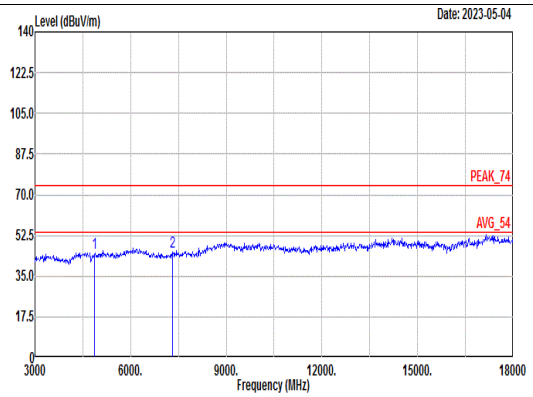
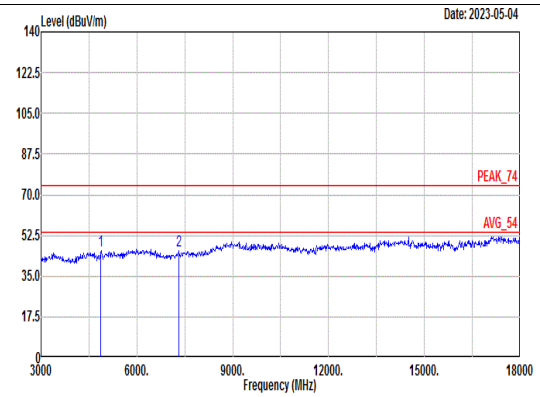
Mode	7	
	Harmonic	
	2400-2483.5_802.11n HT20_CH01_2412MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL Mode : 16 Setting : MCS0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4824.00 43.26 74.00 -30.74 53.75 34.67 7.75 52.91 --- --- Peak	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL Mode : 16 Setting : MCS0 Power setting 10 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4824.00 43.29 74.00 -30.71 53.78 34.67 7.75 52.91 --- --- Peak

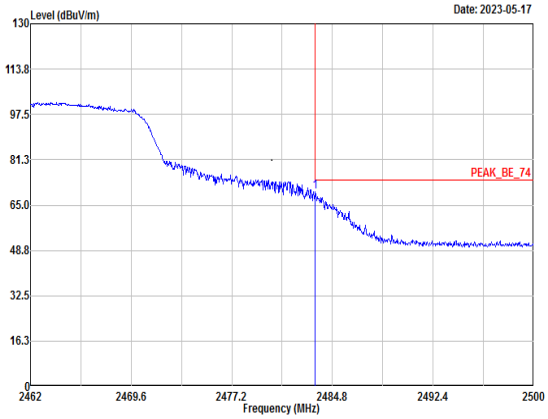
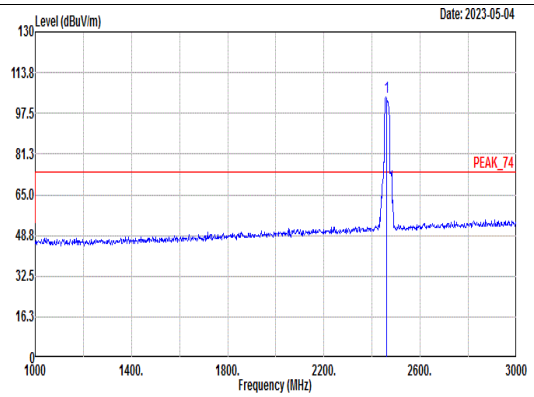
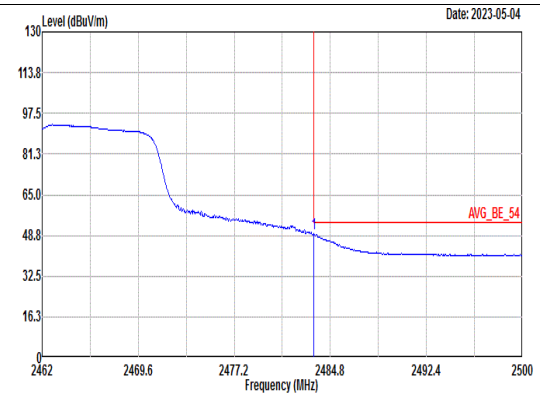
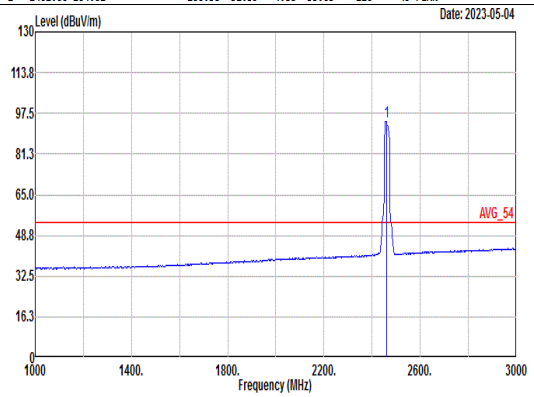
Mode	8	
	Band Edge - L	
	2400-2483.5_802.11n HT20_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2379.98 53.78 74.00 -20.22 50.47 32.19 4.79 33.67 190 29 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 103.71 ------ ------ 100.17 32.33 4.85 33.64 190 29 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2387.98 40.98 54.00 -13.02 37.65 32.21 4.79 33.67 190 29 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 94.24 ------ ------ 90.67 32.35 4.86 33.64 190 29 AVERAGE

Mode	8	
	Band Edge - R	
	2400-2483.5_802.11n HT20_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2484.06 53.61 74.00 -20.39 49.84 32.46 4.92 33.61 190 29 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2490.87 41.35 54.00 -12.65 37.55 32.48 4.93 33.61 190 29 AVERAGE	Blank

Mode	8	
	Band Edge - L	
	2400-2483.5_802.11n HT20_CH06_2437MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2388.61 54.42 74.00 -19.58 51.09 32.21 4.79 33.67 231 68 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 106.77 ------ ------ 103.20 32.35 4.86 33.64 231 68 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2388.36 41.50 54.00 -12.50 38.17 32.21 4.79 33.67 231 68 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin (dB) Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2437.00 97.30 ------ ------ 93.74 32.34 4.86 33.64 231 68 AVERAGE

Mode	8	
	Band Edge - R	
	2400-2483.5_802.11n HT20_CH06_2437MHz	
ANT	1	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2484.75 54.25 74.00 -19.75 50.48 32.46 4.92 33.61 231 68 PEAK	Blank
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 VERTICAL : RBW:1000.000kHz VBW:1.000kHz Mode : 17 Setting : MCS 0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dBuV dB/m dB dB cm deg 1 2483.94 41.71 54.00 -12.29 37.94 32.46 4.92 33.61 231 68 AVERAGE	Blank

Mode	8	
	Harmonic	
	2400-2483.5_802.11n HT20_CH06_2437MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL Mode : 17 Setting : MCS0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4874.00 44.71 74.00 -29.29 55.14 34.65 7.77 52.85 --- --- Peak 2 7311.00 45.48 74.00 -28.52 54.25 36.41 8.93 54.11 --- --- Peak	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 VERTICAL Mode : 17 Setting : MCS0 Power setting 18 Plane : Y with accessaries : 352000530016413/352000530016421 Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB cm deg 1 4874.00 46.01 74.00 -27.99 56.44 34.65 7.77 52.85 --- --- Peak 2 7311.00 46.21 74.00 -27.79 54.98 36.41 8.93 54.11 --- --- Peak

Mode	9	
	Band Edge	
	2400-2483.5_802.11n HT20_CH11_2462MHz	
ANT	1	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH03-SZ Condition: PEAK_BE_74 3m ANT3117_0057 HORIZONTAL Mode : 18 Setting : MCS 0 Power setting 14 Plane : Y with accessaries : 352000530016413/352000530016421 1 2483.51 69.69 74.00 -4.31 65.92 32.46 4.92 33.61 116 49 PEAK	 Site : 03CH03-SZ Condition: PEAK_74 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz Mode : 18 Setting : MCS 0 Power setting 14 Plane : Y with accessaries : 352000530016413/352000530016421 1 2462.00 104.02 ------ ------ 100.38 32.39 4.88 33.63 116 49 PEAK
Avg	 Site : 03CH03-SZ Condition: AVG_BE_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 18 Setting : MCS 0 Power setting 14 Plane : Y with accessaries : 352000530016413/352000530016421 1 2483.51 49.43 54.00 -4.57 45.66 32.46 4.92 33.61 116 49 AVERAGE	 Site : 03CH03-SZ Condition: AVG_54 3m ANT3117_0057 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz Mode : 18 Setting : MCS 0 Power setting 14 Plane : Y with accessaries : 352000530016413/352000530016421 1 2462.00 94.35 ------ ------ 90.71 32.39 4.88 33.63 116 49 AVERAGE