

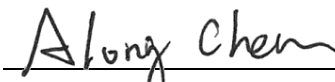
FCC Test Report

FCC ID : HDC-17600074
Equipment : WiFi 7 10G Router
Model No. : SDG-8733, SDG-8734
(Please refer to section 1.1.1 for more details)
Brand Name : Adtran
Applicant : Adtran
Address : 901 Explorer Boulevard, Huntsville, Alabama,
United States, 35806-2807
Standard : 47 CFR FCC Part 15.247
Received Date : Mar. 13, 2024
Tested Date : Mar. 13 ~ Apr. 24, 2024

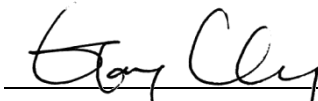
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	8
1.3	Test Setup Chart	9
1.4	The Equipment List	13
1.5	Test Standards	14
1.6	Reference Guidance	14
1.7	Deviation from Test Standard and Measurement Procedure.....	14
1.8	Measurement Uncertainty	14
2	TEST CONFIGURATION.....	15
2.1	Testing Facility	15
2.2	The Worst Test Modes and Channel Details	15
3	TRANSMITTER TEST RESULTS	16
3.1	6dB and Occupied Bandwidth.....	16
3.2	Conducted Output Power	17
3.3	Power Spectral Density	18
3.4	Unwanted Emissions into Restricted Frequency Bands	19
3.5	Emissions in Non-Restricted Frequency Bands.....	21
3.6	AC Power Line Conducted Emissions	22
4	TEST LABORATORY INFORMATION	23
Appendix A. 6dB and Occupied Bandwidth		
Appendix B. Conducted Output Power		
Appendix C. Power Spectral Density		
Appendix D. Unwanted Emissions into Restricted Frequency Bands		
Appendix E. Emissions in Non-Restricted Frequency Bands		
Appendix F. AC Power Line Conducted Emissions		

Release Record

Report No.	Version	Description	Issued Date
FR431301AC	Rev. 01	Initial issue	May 24, 2024

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emission	[dBuV]: 0.435MHz 35.09 (Margin -12.06dB) - AV	Pass
15.247(d) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 2390.00MHz 53.88 (Margin -0.12dB) – AV	Pass
15.247(b)(3)	Conducted Output Power	Max Power [dBm]: Non-beamforming mode 27.19 Beamforming mode 27.01	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Adtran	SDG-8733	WiFi 7 10G Router	W/O VOIP, With 10G RJ45 WAN Port
	SDG-8734	WiFi 7 10G Router	W/O VOIP, With 10G SFP WAN Port

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	4	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	4	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	4	MCS 0-31
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	4	MCS 0-31
2400-2483.5	ax (HE20)	2412-2462	1-11 [11]	4	MCS 0-11
2400-2483.5	ax (HE40)	2422-2452	3-9 [7]	4	MCS 0-11
2400-2483.5	be (EHT20)	2412-2462	1-11 [11]	4	MCS 0-13
2400-2483.5	be (EHT40)	2422-2452	3-9 [7]	4	MCS 0-13

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.
 Note 2: DSSS-DBPSK, DQPSK, CCK modulation
 OFDM / OFDMA- BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM and 4096QAM modulation.

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725 ~ 5850
1	DB1	Dipole	UFL	3.948	5.688	5.607	5.316	4.309
2	DB2	Dipole	UFL	4.92	4.627	4.569	5.03	5.17
3	DB3	Dipole	UFL	3.842	4.597	5.481	6.018	4.796
4	DB4	Dipole	UFL	5.006	6.346	6.51	5.997	5.982
5	SM-DFS	Dipole	UFL	4.092	5.909	5.909	5.159	5.526

1.1.4 Configuration of Equipment under Test (EUT)

Power Supply Type	15Vdc from adapter	
Beamforming	☒ Support	☐ Not support
RU Configuration	☒ Full RU	☐ Partial RU

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: LUCENT TRANS Model: 1A78 I/P: 100-240Vac, 50/60Hz, 1.2A O/P: 15V= 3.0A, 45.0W Power Line: USB 1.8m non-shielded without core
2	AC adapter	Brand: PHIHONG Model: AA45A-59FKD I/P: 100-240Vac, 50/60Hz, 1.2A O/P: 15V=3.0A, 45.0W Power Line: USB 1.8m non-shielded without core
3	RJ45	2m non-shielded without core

1.1.6 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20 / ax HE20 / be EHT20		802.11n HT40 / ax HE40 / be EHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	Non-beamforming: QATool, 0.0.2.99 Beamforming: Putty,0.6				
Duty Cycle and Duty Factor	Mode	Non-beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11b	99.88%	0.01	---	---
	11g	98.96%	0.05	---	---
	be EHT20	99.28%	0.03	99.32%	0.03
	be EHT40	98.10%	0.08	98.68%	0.06

1.1.8 Power Index of Test Tool

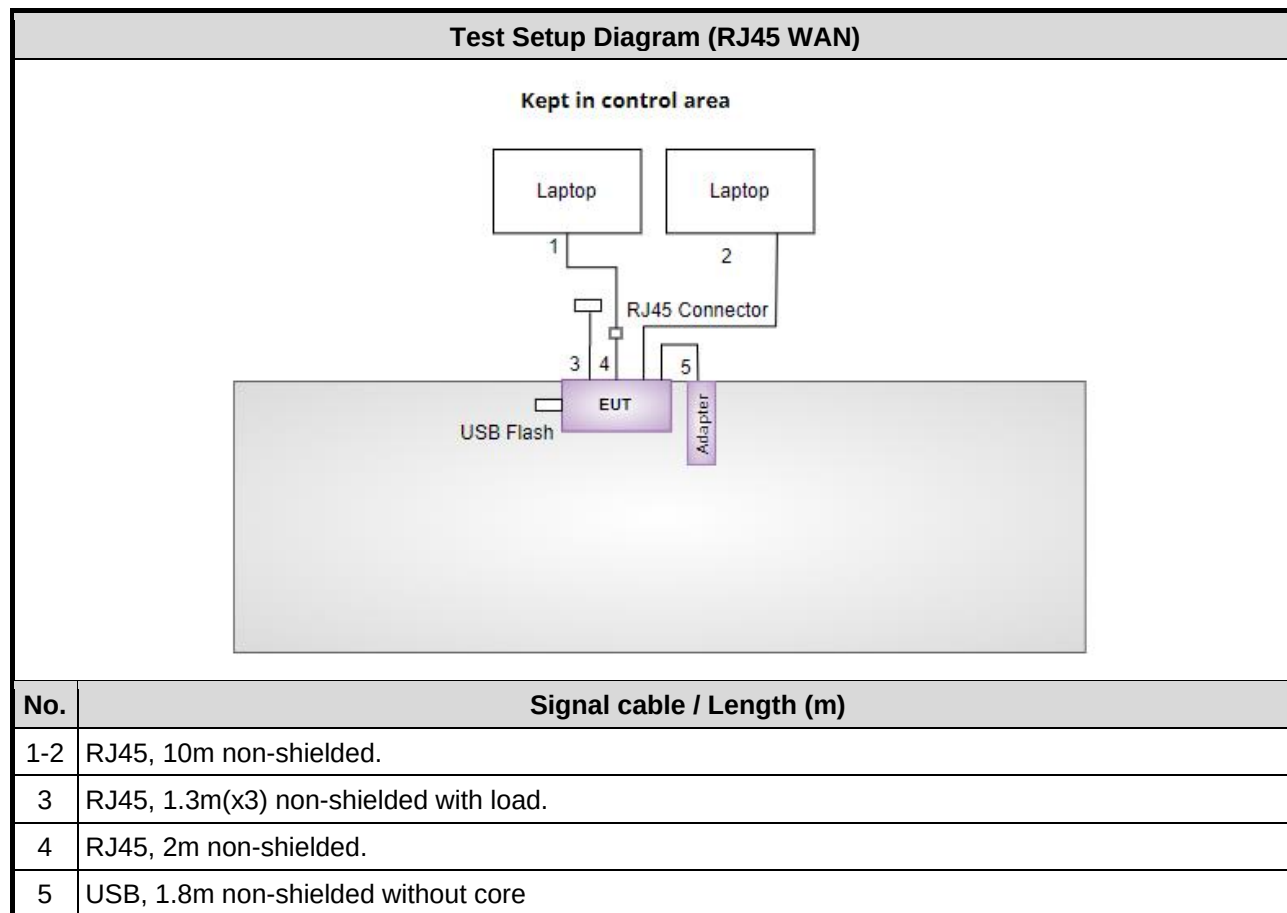
Modulation Mode	Test Frequency (MHz)	Power Index	
		Non-beamforming	Beamforming
11b	2412	21	---
11b	2437	21.5	---
11b	2462	20	---
11g	2412	18.5	---
11g	2437	21.5	---
11g	2462	18.5	---
be EHT20	2412	19	35
be EHT20	2437	21.5	43
be EHT20	2462	17.5	35
be EHT40	2422	18	34
be EHT40	2437	20	38
be EHT40	2452	18	35

1.2 Local Support Equipment List

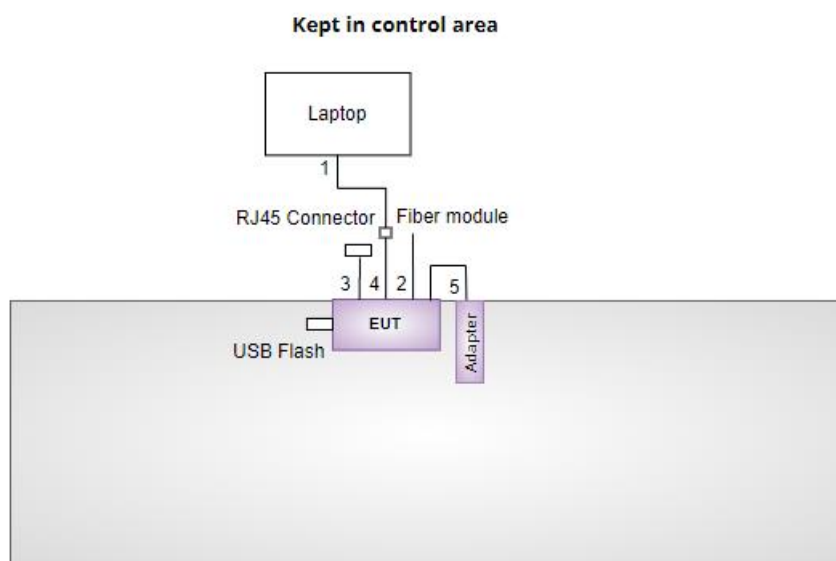
Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
Non-beamforming mode - RJ45 WAN					
1	Laptop	DELL	Latitude 5400	DoC	---
2	Laptop	DELL	Latitude 5400	DoC	---
3	USB Flash	Transcend(USB 3.0)	JetFlash 700	---	---
4	RJ45 Connector	ICC	---	---	---
5	RJ45 Load	ICC	---	---	---
6	Laptop	DELL	Latitude 3440	DoC	Beamforming mode
7	WiFi 7 10G Router	Adtran	SDG-8733	---	Beamforming mode (Provided by applicant)
Non-beamforming mode - SFP WAN					
1	Laptop	DELL	Latitude 5400	DoC	---
2	USB Flash	Transcend(USB 3.0)	JetFlash 700	---	---
3	RJ45 Connector	ICC	---	---	---
4	RJ45 Load	ICC	---	---	---
5	Fiber module	MikroTik	S+RJ10	---	Provided by applicant
6	Laptop	DELL	Latitude 3440	DoC	Beamforming mode
7	WiFi 7 10G Router	Adtran	SDG-8733	---	Beamforming mode (Provided by applicant)

1.3 Test Setup Chart

Non-beamforming mode

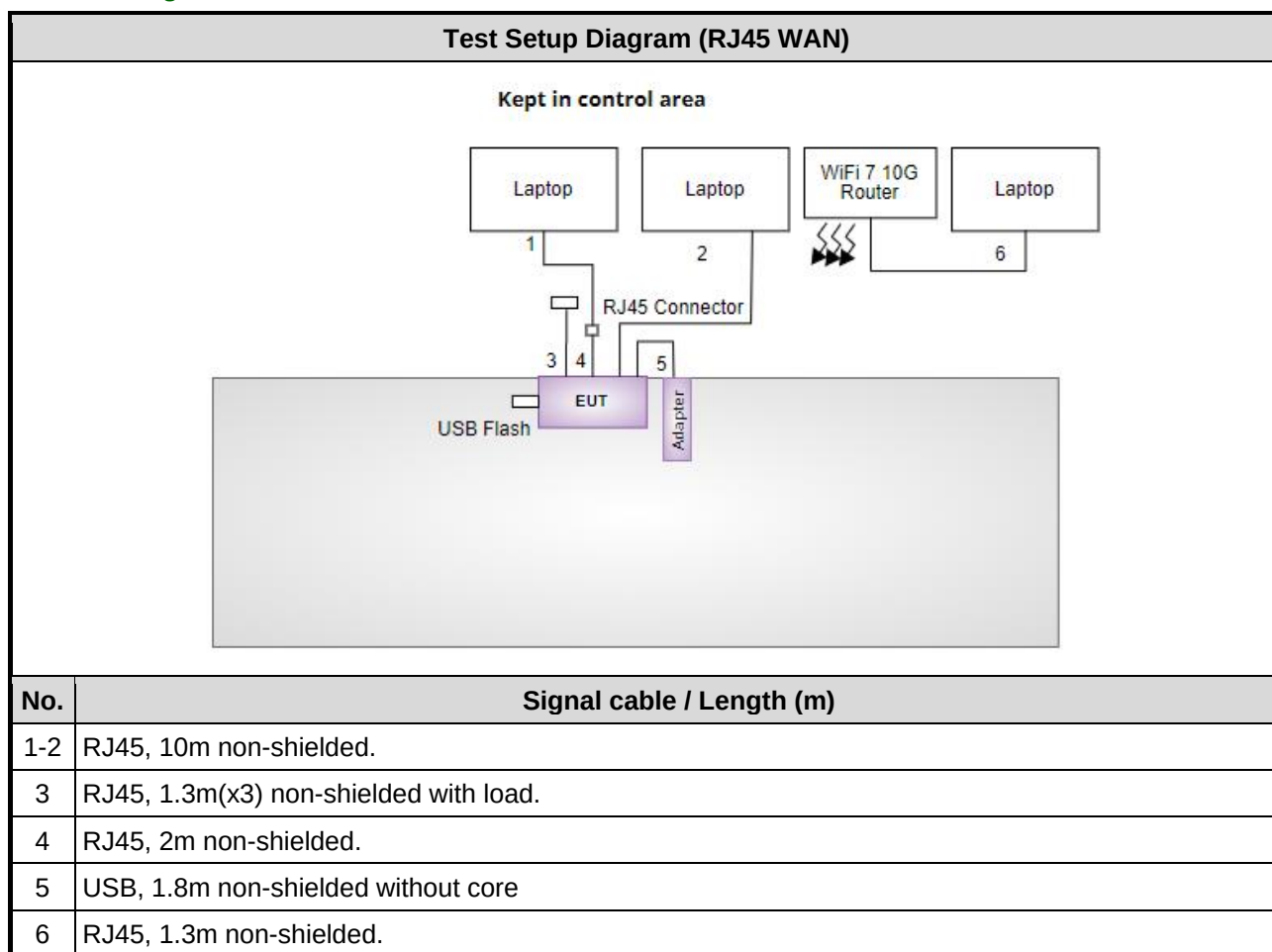


Test Setup Diagram (SFP WAN)

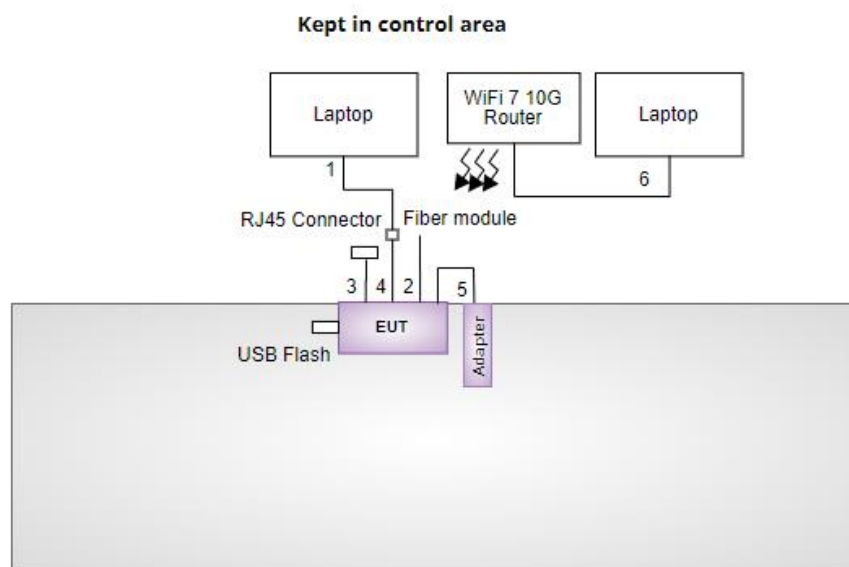


No.	Signal cable / Length (m)
1	RJ45, 10m non-shielded.
2	RJ45, 2m non-shielded.
3	RJ45, 1.3m(x3) non-shielded with load.
4	RJ45, 2m non-shielded.
5	USB, 1.8m non-shielded without core

Beamforming mode



Test Setup Diagram (SFP WAN)



No.	Signal cable / Length (m)
1	RJ45, 10m non-shielded.
2	RJ45, 2m non-shielded.
3	RJ45, 1.3m(x3) non-shielded with load.
4	RJ45, 2m non-shielded.
5	USB, 1.8m non-shielded without core
6	RJ45, 1.3m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Apr. 19, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Feb. 23, 2024	Feb. 22, 2025
LISN	R&S	ENV216	101579	May 09, 2023	May 08, 2024
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 11, 2023	Oct. 10, 2024
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127667	Jan. 10, 2024	Jan. 09, 2025
50 ohm terminal (Support Unit)	NA	50	01	Jun. 14, 2023	Jun. 13, 2024
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Mar. 13 ~ Apr. 12, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 05, 2024	Mar. 04, 2025
Spectrum Analyzer	R&S	FSV40	101498	Nov. 23, 2023	Nov. 22, 2024
Loop Antenna	R&S	HFH2-Z2	100330	Oct. 31, 2023	Oct. 30, 2024
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 31, 2023	Jul. 30, 2024
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 27, 2023	Nov. 26, 2024
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 30, 2023	Oct. 29, 2024
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2023	Jun. 27, 2024
Preamplifier	EMC	EMC118A45SE	980898	Jul. 14, 2023	Jul. 13, 2024
Preamplifier	EMC	EMC184045SE	980903	Jul. 17, 2023	Jul. 16, 2024
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 03, 2023	Oct. 02, 2024
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 03, 2023	Oct. 02, 2024
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 03, 2023	Oct. 02, 2024
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 03, 2023	Oct. 02, 2024
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 03, 2023	Oct. 02, 2024
RF Cable	EMC	EMC104-35M-35M-3000	210922	Oct. 03, 2023	Oct. 02, 2024
HIGHPASS FILTER 3.1-18G	WHK	WHK3.1/18G-10SS	39	Oct. 05, 2023	Oct. 04, 2024
Attenuator	Pasternack	PE7005-10	10-1	Oct. 05, 2023	Oct. 04, 2024
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 18 ~ Apr. 24, 2024				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Nov. 23, 2023	Nov. 22, 2024
Power Meter	Anritsu	ML2495A	1241002	Nov. 21, 2023	Nov. 20, 2024
Power Sensor	Anritsu	MA2411B	1207366	Nov. 21, 2023	Nov. 20, 2024
Attenuator	Pasternack	PE7005-10	10-2	Oct. 05, 2023	Oct. 04, 2024
Measurement Software	Sporton	SENSE-15247_DTS	V5.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Non-beamforming mode				
AC Power Line Conducted Emission	11b	2437	1 Mbps	1, 2
Unwanted Emissions ≤ 1GHz	11b	2437	1 Mbps	1, 2
Unwanted Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	1
Conducted Output Power	11g	2412 / 2437 / 2462	6 Mbps	
6dB bandwidth	be EHT20	2412 / 2437 / 2462	MCS 0	
Power spectral density	be EHT40	2422 / 2437 / 2452	MCS 0	
Beamforming mode				
AC Power Line Conducted Emission	be EHT20	2437	MCS 0	1, 2
Unwanted Emissions ≤1GHz	be EHT20	2437	MCS 0	1, 2
Unwanted Emissions >1GHz				1
Conducted Output Power	be EHT20	2412 / 2437 / 2462	MCS 0	
6dB bandwidth	be EHT40	2422 / 2437 / 2452	MCS 0	
Power spectral density				
NOTE:				
1. Two adapters (LUCENT TRANS & PHIHONG) had been covered during the pretest and found that PHIHONG adapter was the worst case for radiated emission test and LUCENT TRANS adapter was the worst case for conducted emission test.				
2. The EUT had been tested by following test configurations.				
1) Configuration 1: Model: SDG-8733				
2) Configuration 2: Model: SDG-8734				

3 Transmitter Test Results

3.1 6dB and Occupied Bandwidth

3.1.1 Limit of 6dB Bandwidth

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

3.1.2 Test Procedures

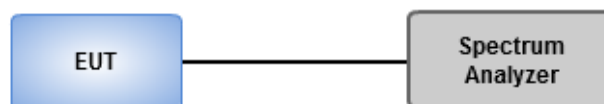
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.1.3 Test Setup



3.1.4 Test Results

Ambient Condition	22-24°C / 63-66%	Tested By	Akun Chung
-------------------	------------------	-----------	------------

Refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Limit of Conducted Output Power

Conducted power shall not exceed 1Watt.

Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

Antenna gain $> 6\text{dBi}$

Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

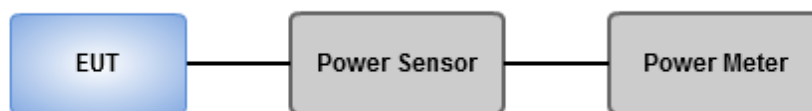
Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.2.3 Test Setup



3.2.4 Test Results

Ambient Condition	22-24°C / 63-66%	Tested By	Akun Chung
-------------------	------------------	-----------	------------

Refer to Appendix B.

3.3 Power Spectral Density

3.3.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.3.2 Test Procedures

Peak PSD

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

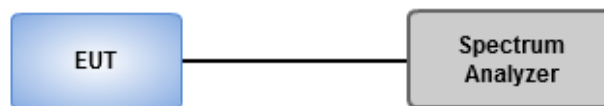
Average PSD, duty cycle $\geq 98\%$

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle $< 98\%$

1. Set the RBW = 3 kHz, VBW = 10 kHz
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.
6. Add $10 \log (1/x)$, where x is the duty cycle.

3.3.3 Test Setup



3.3.4 Test Results

Ambient Condition	22-24°C / 63-66%	Tested By	Akun Chung
-------------------	------------------	-----------	------------

Refer to Appendix C.

3.4 Unwanted Emissions into Restricted Frequency Bands

3.4.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.4.2 Test Procedures

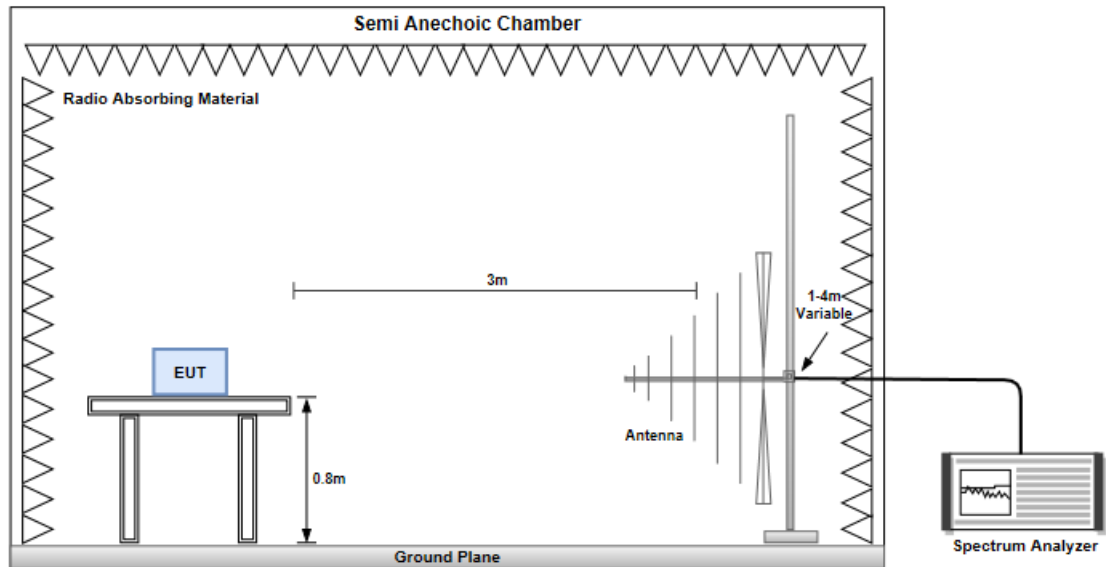
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

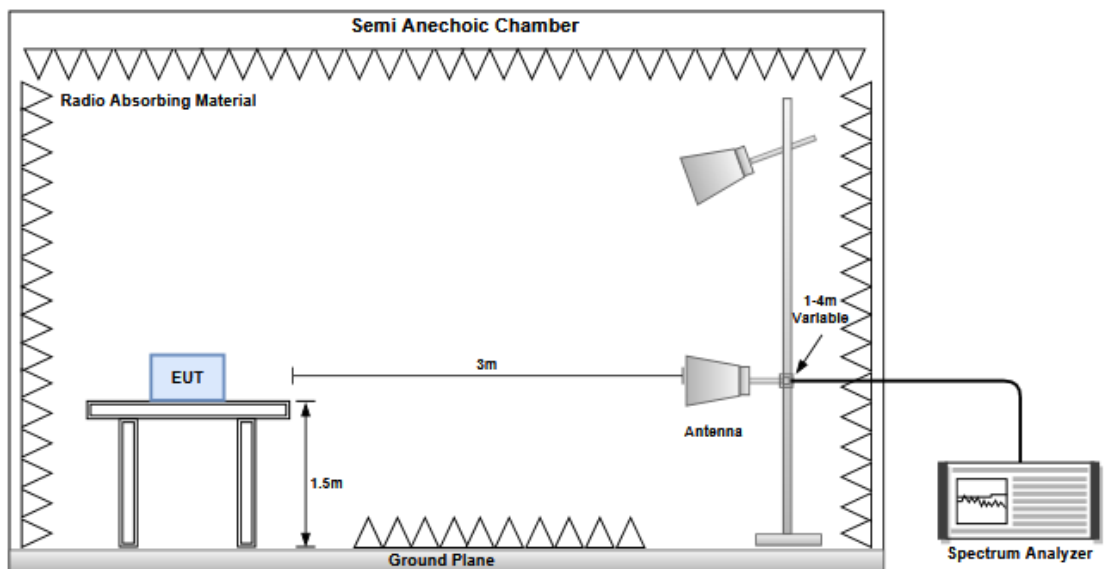
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.4.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.4.4 Test Results

Refer to Appendix D.

3.5 Emissions in Non-Restricted Frequency Bands

3.5.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.5.2 Test Procedures

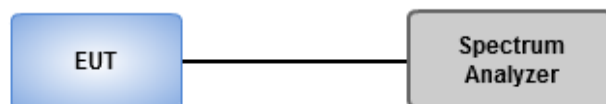
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	22-24°C / 63-66%	Tested By	Akun Chung
-------------------	------------------	-----------	------------

Refer to Appendix E.

3.6 AC Power Line Conducted Emissions

3.6.1 Limit of AC Power Line Conducted Emissions

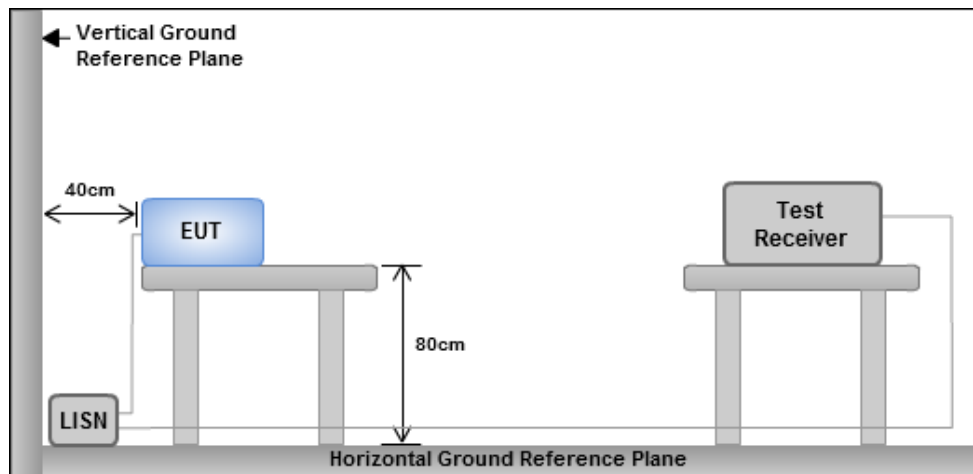
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.6.3 Test Setup



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

3.6.4 Test Results

Refer to Appendix F.

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==

Non-beamforming mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	8.525M	13.284M	13M3G1D	7.1M	12.675M
802.11g_Nss1,(6Mbps)_4TX	16.3M	17.065M	17M1D1D	15.325M	16.294M
802.11be EHT20_Nss1,(MCS0)_4TX	18.575M	18.968M	19M0D1D	17.4M	18.792M
802.11be EHT40_Nss1,(MCS0)_4TX	36.35M	37.708M	37M7D1D	33.8M	37.329M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	13.284M	8.5M	12.825M	7.575M	12.799M	8.025M	12.861M
2437MHz	Pass	500k	8.05M	12.849M	7.55M	12.738M	8.025M	12.831M	7.1M	12.69M
2462MHz	Pass	500k	8M	12.809M	7.575M	12.678M	7.55M	12.777M	7.55M	12.675M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	15.625M	16.367M	16M	16.33M	16.025M	16.294M	16.3M	16.316M
2437MHz	Pass	500k	15.325M	16.765M	15.625M	16.737M	15.65M	17.065M	15.375M	16.706M
2462MHz	Pass	500k	15.625M	16.338M	16M	16.348M	15.65M	16.365M	16.275M	16.371M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.05M	18.825M	17.65M	18.834M	18.075M	18.808M	18M	18.823M
2437MHz	Pass	500k	18.2M	18.944M	17.4M	18.921M	17.9M	18.968M	17.975M	18.916M
2462MHz	Pass	500k	18.3M	18.792M	18.025M	18.803M	18.35M	18.837M	18.575M	18.819M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	34M	37.457M	36.35M	37.459M	35.95M	37.515M	35.55M	37.526M
2437MHz	Pass	500k	36.15M	37.708M	35M	37.617M	36.1M	37.603M	35M	37.608M
2452MHz	Pass	500k	33.8M	37.445M	35M	37.514M	35.05M	37.329M	35M	37.482M

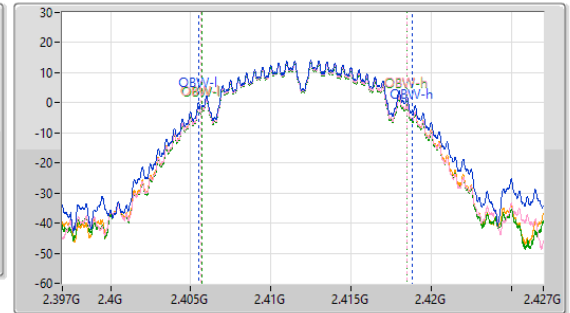
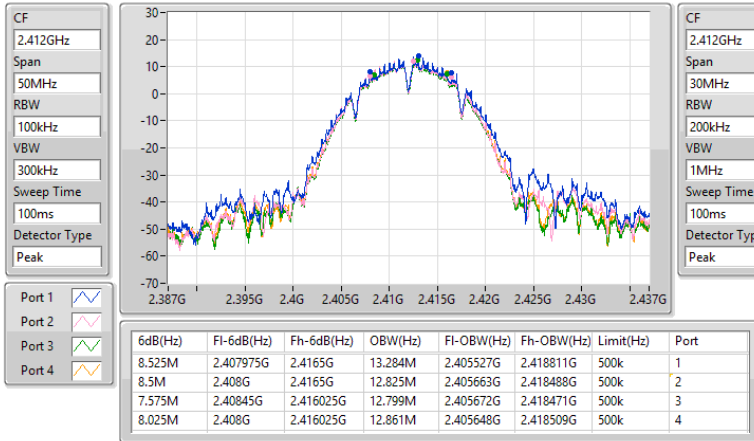
Port X-N dB = Port X 6dB down bandwidth;

Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

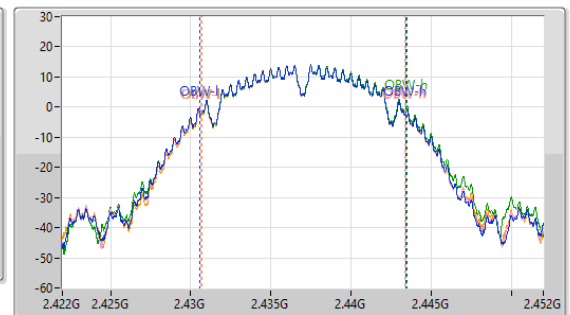
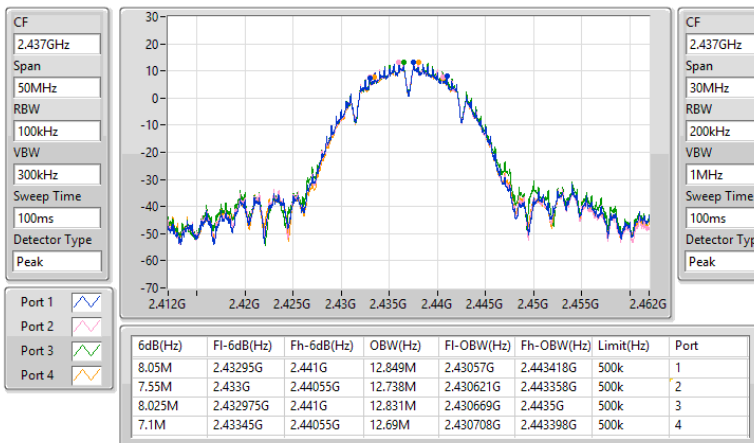
2412MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

2437MHz

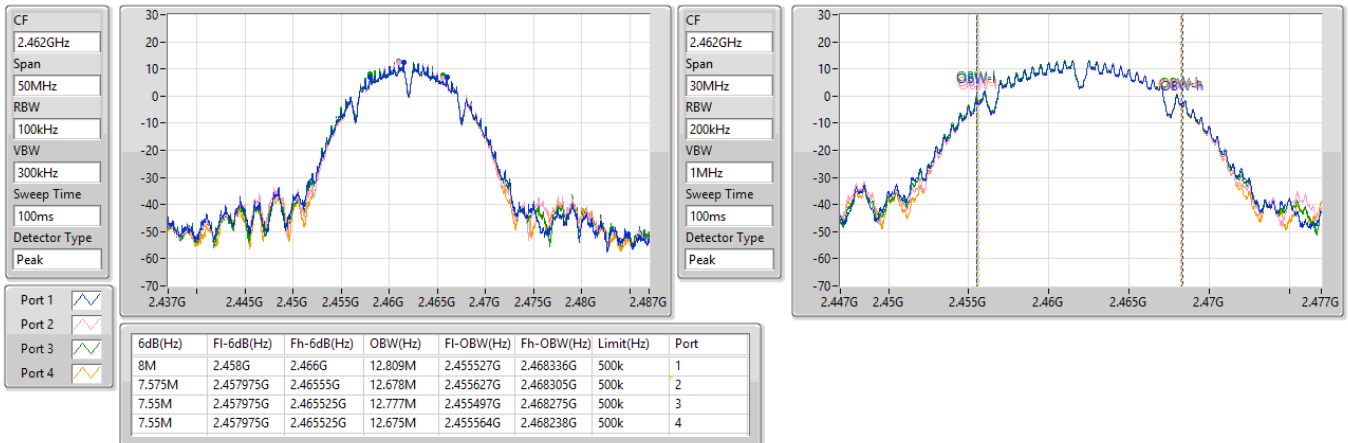




2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

EBW

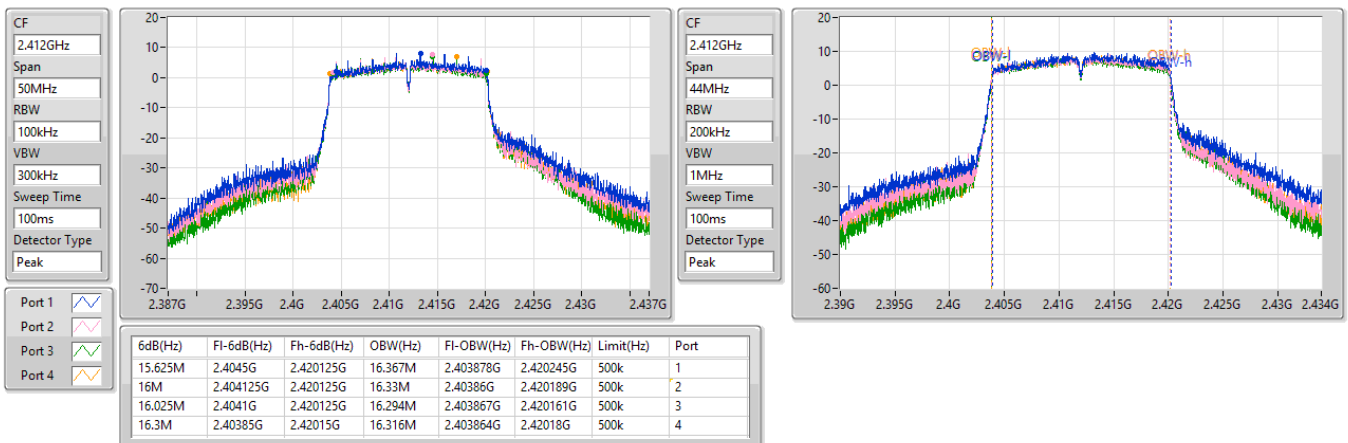
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

2412MHz

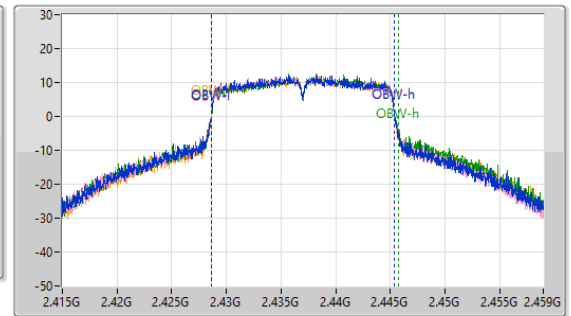
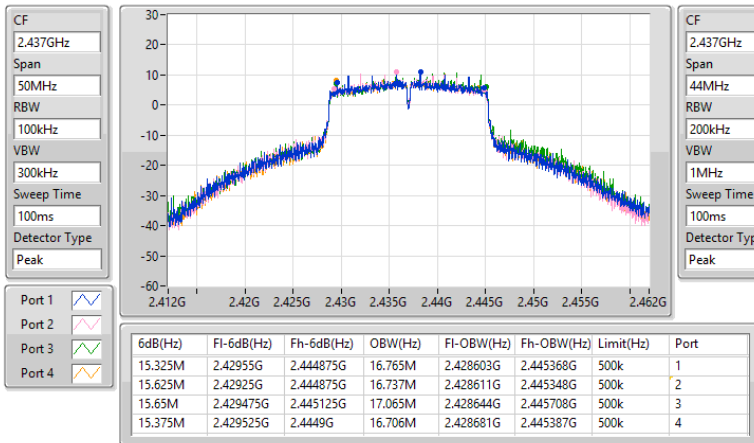




2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

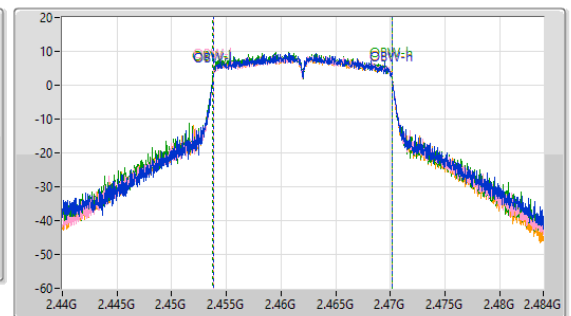
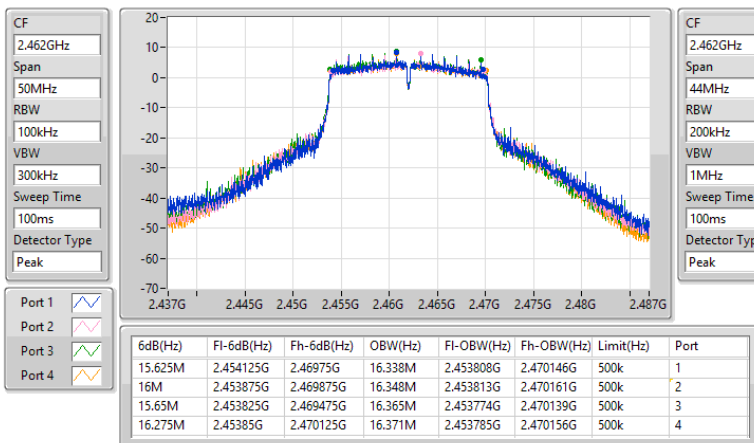
2437MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

EBW

2462MHz

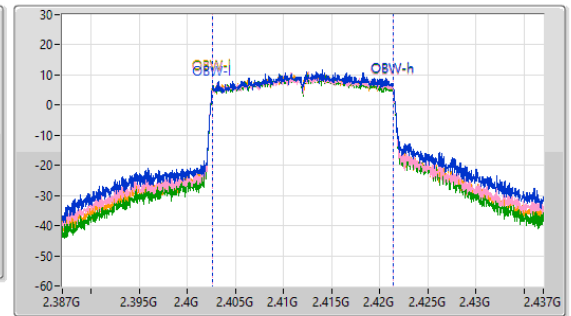
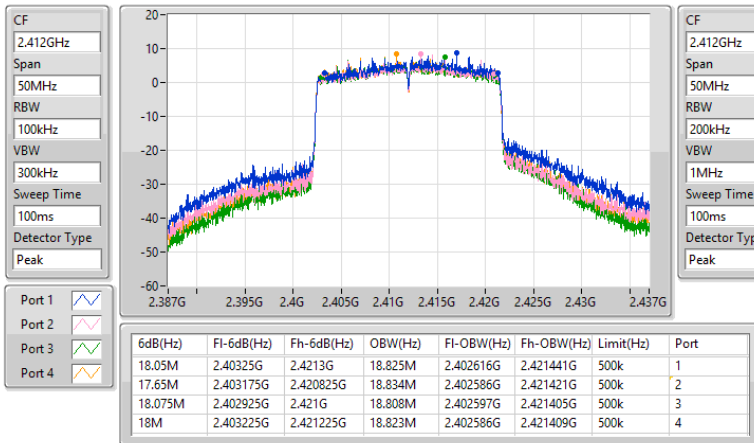




2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

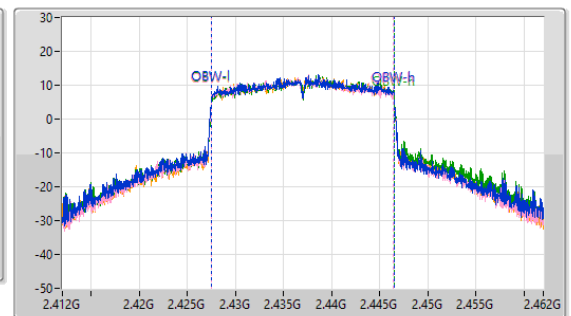
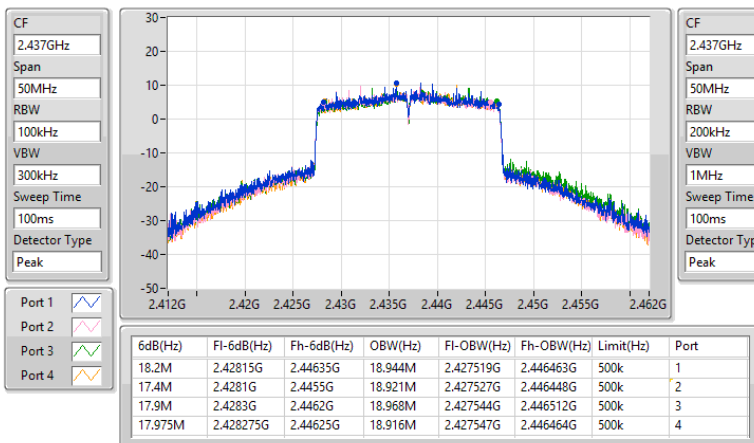
2412MHz



2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

2437MHz

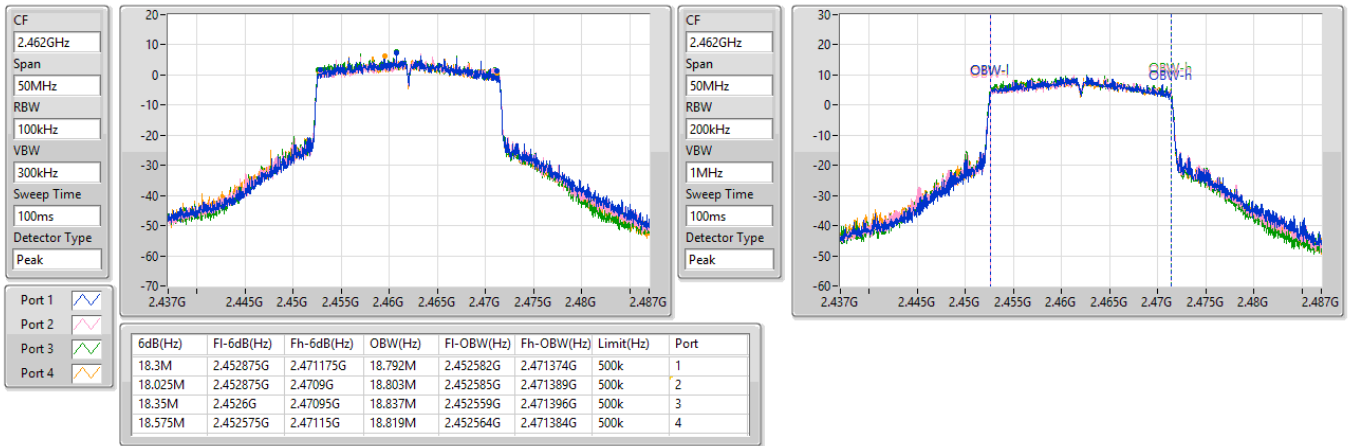




2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

EBW

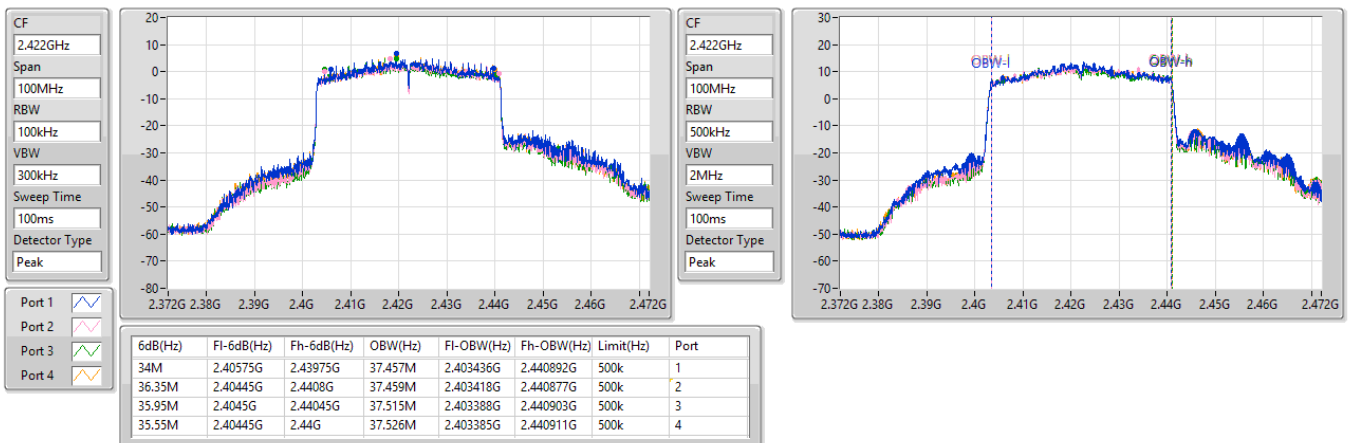
2462MHz



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

2422MHz

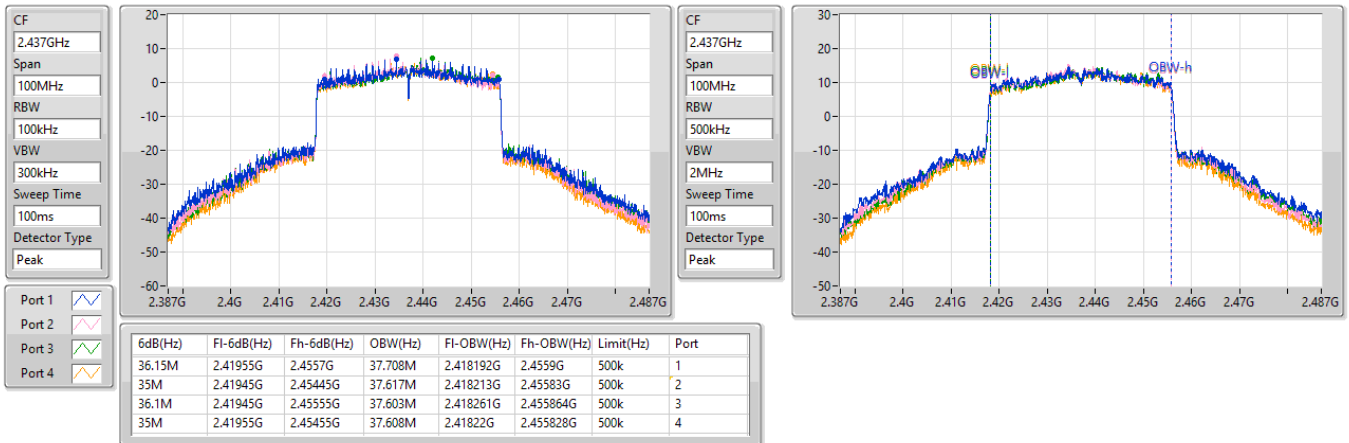




2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

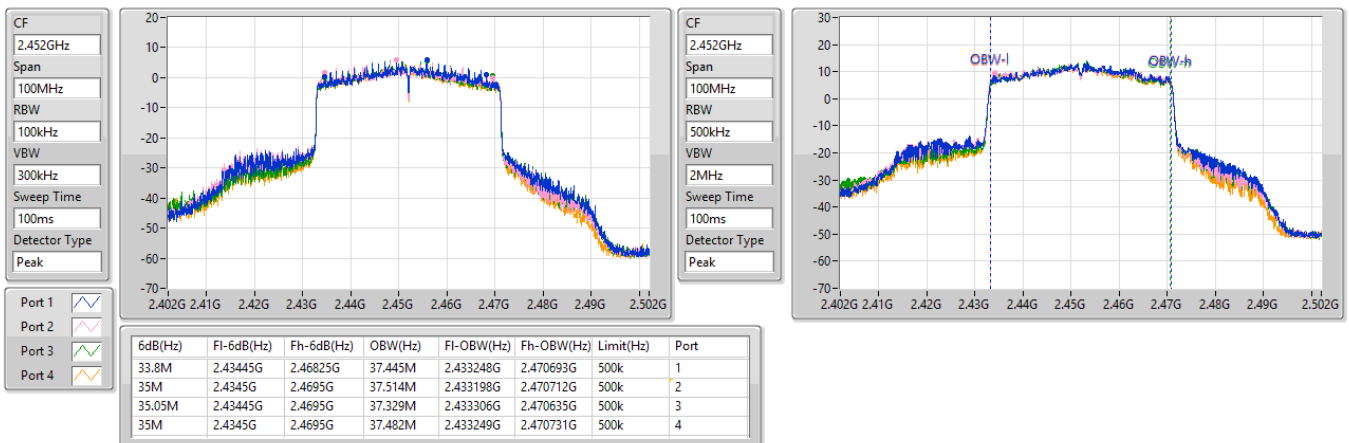
2437MHz



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

EBW

2452MHz



Beamforming mode
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	18.425M	18.919M	18M9D1D	17.4M	18.752M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	37.3M	37.609M	37M6D1D	26.3M	37.259M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	17.6M	18.752M	18.425M	18.782M	17.425M	18.76M	18.125M	18.772M
2437MHz	Pass	500k	17.4M	18.889M	17.675M	18.876M	17.9M	18.919M	17.45M	18.915M
2462MHz	Pass	500k	18.275M	18.768M	18.2M	18.796M	18.1M	18.786M	17.725M	18.81M
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	35.95M	37.472M	35.1M	37.506M	31.25M	37.554M	35.1M	37.554M
2437MHz	Pass	500k	26.3M	37.259M	37M	37.573M	37.3M	37.609M	35.15M	37.487M
2452MHz	Pass	500k	35.05M	37.39M	31.25M	37.594M	31.95M	37.423M	32.55M	37.469M

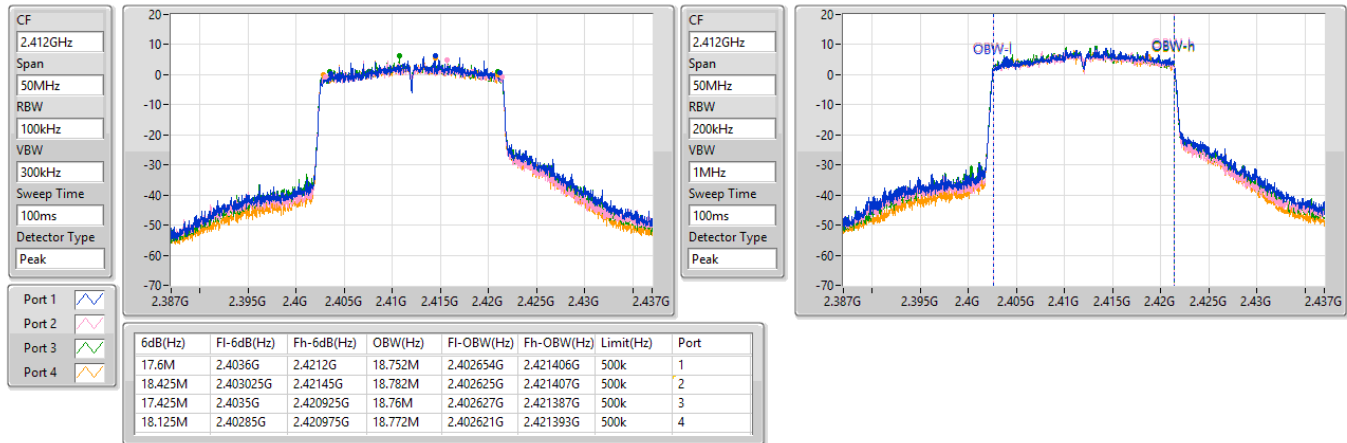
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth



2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

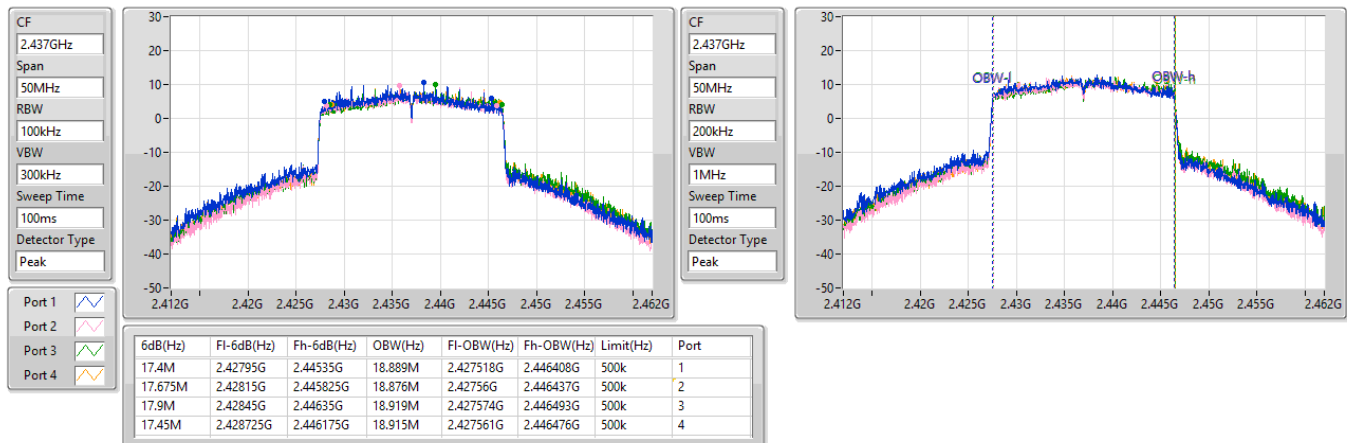
2412MHz



2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

2437MHz

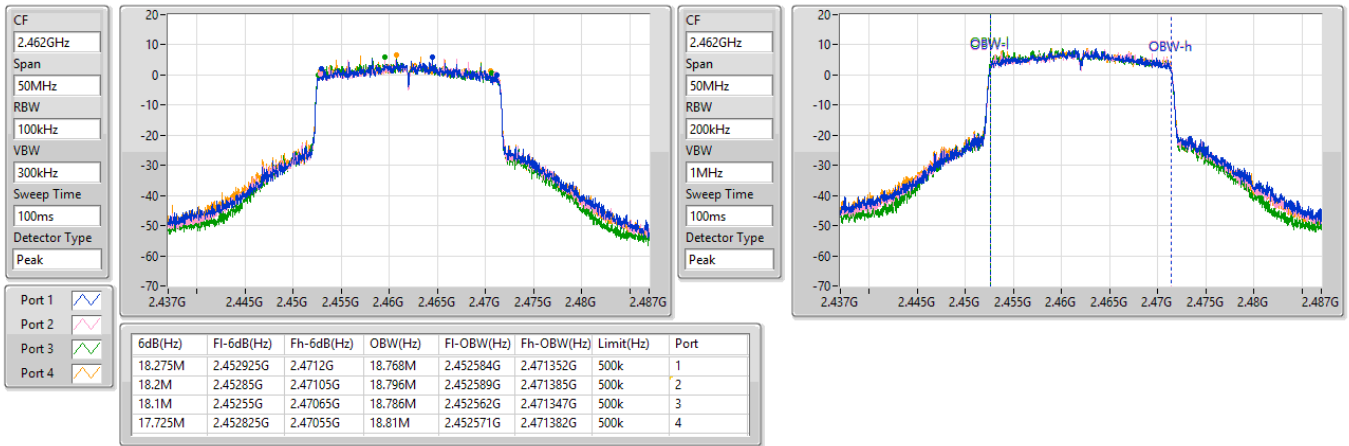




2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

EBW

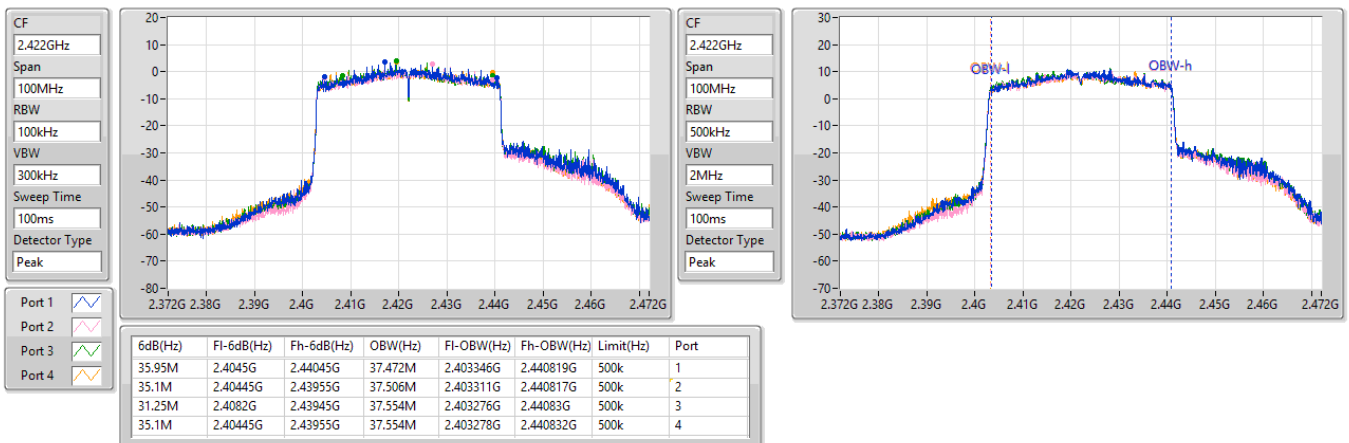
2462MHz



2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

2422MHz

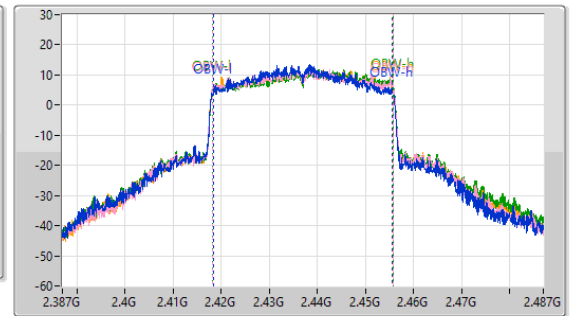
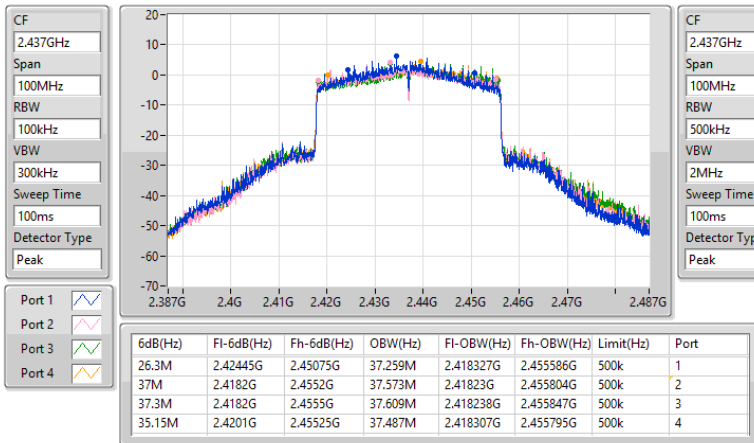




2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

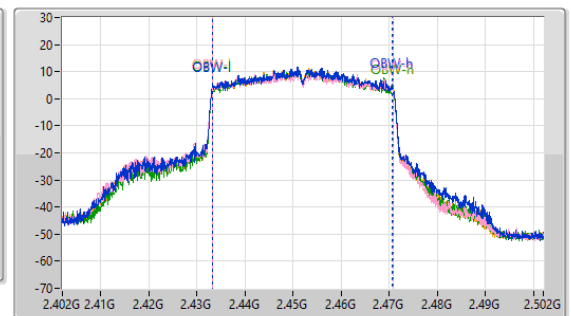
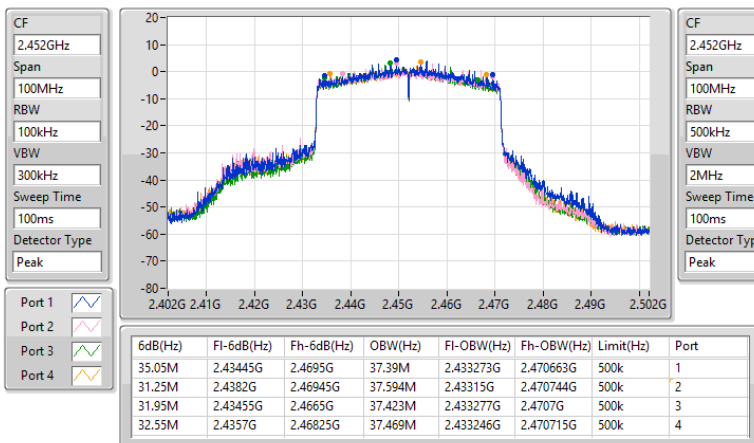
2437MHz



2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

EBW

2452MHz



Non-beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	27.19	0.52360
802.11g_Nss1,(6Mbps)_4TX	27.08	0.51050
802.11be EHT20_Nss1,(MCS0)_4TX	27.05	0.50699
802.11be EHT40_Nss1,(MCS0)_4TX	25.82	0.38194

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	5.006	20.92	20.71	20.47	20.14	26.59	30.00	31.60	36.00
2437MHz	Pass	5.006	21.41	20.75	21.14	21.36	27.19	30.00	32.20	36.00
2462MHz	Pass	5.006	19.94	20.02	20.21	19.79	26.01	30.00	31.02	36.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	5.006	18.11	18.05	17.79	17.54	23.90	30.00	28.91	36.00
2437MHz	Pass	5.006	21.32	20.85	21.05	21.02	27.08	30.00	32.09	36.00
2462MHz	Pass	5.006	18.31	18.28	18.47	18.19	24.33	30.00	29.34	36.00
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	5.006	18.75	18.67	18.39	18.09	24.50	30.00	29.51	36.00
2437MHz	Pass	5.006	21.29	20.75	21.09	20.99	27.05	30.00	32.06	36.00
2462MHz	Pass	5.006	17.33	17.29	17.53	17.21	23.36	30.00	28.37	36.00
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	5.006	18.19	18.15	17.75	17.66	23.96	30.00	28.97	36.00
2437MHz	Pass	5.006	20.01	19.83	19.52	19.82	25.82	30.00	30.83	36.00
2452MHz	Pass	5.006	17.86	17.66	17.44	17.66	23.68	30.00	28.69	36.00

DG = Directional Gain; Port X = Port X output power

Beamforming mode
Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	27.01	0.50234
802.11be EHT40-BF_Nss1,(MCS0)_4TX	24.50	0.28184

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	5.88	17.32	16.29	17.07	16.54	22.84	30.00	28.72	36.00
2437MHz	Pass	5.88	21.11	20.62	21.09	21.12	27.01	30.00	32.89	36.00
2462MHz	Pass	5.88	17.2	17.23	17.34	17.51	23.34	30.00	29.22	36.00
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	5.88	16.86	16.45	16.98	16.58	22.74	30.00	28.62	36.00
2437MHz	Pass	5.88	18.69	18.44	18.31	18.48	24.50	30.00	30.38	36.00
2452MHz	Pass	5.88	17.19	16.38	16.81	16.85	22.84	30.00	28.72	36.00

DG = Directional Gain; Port X = Port X output power

Directional Gain refers to antenna report.

**Non-beamforming mode****Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	-2.28
802.11g_Nss1,(6Mbps)_4TX	-6.11
802.11be EHT20_Nss1,(MCS0)_4TX	-5.53
802.11be EHT40_Nss1,(MCS0)_4TX	-7.92

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.880	-8.44	-9.04	-8.23	-9.47	-3.33	8.00
2437MHz	Pass	5.880	-7.66	-7.21	-7.53	-7.52	-2.28	8.00
2462MHz	Pass	5.880	-10.01	-9.23	-9.83	-8.98	-4.13	8.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.880	-13.36	-14.33	-14.24	-14.60	-9.02	8.00
2437MHz	Pass	5.880	-10.87	-11.11	-11.25	-11.43	-6.11	8.00
2462MHz	Pass	5.880	-13.56	-14.06	-13.73	-14.00	-8.46	8.00
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	5.880	-13.93	-12.58	-13.35	-12.28	-8.06	8.00
2437MHz	Pass	5.880	-10.37	-9.77	-10.56	-8.94	-5.53	8.00
2462MHz	Pass	5.880	-14.24	-12.83	-14.72	-13.69	-9.55	8.00
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	5.880	-14.64	-16.12	-13.54	-15.35	-9.45	8.00
2437MHz	Pass	5.880	-13.88	-13.71	-13.68	-14.20	-7.92	8.00
2452MHz	Pass	5.880	-16.32	-16.88	-16.68	-17.04	-11.00	8.00

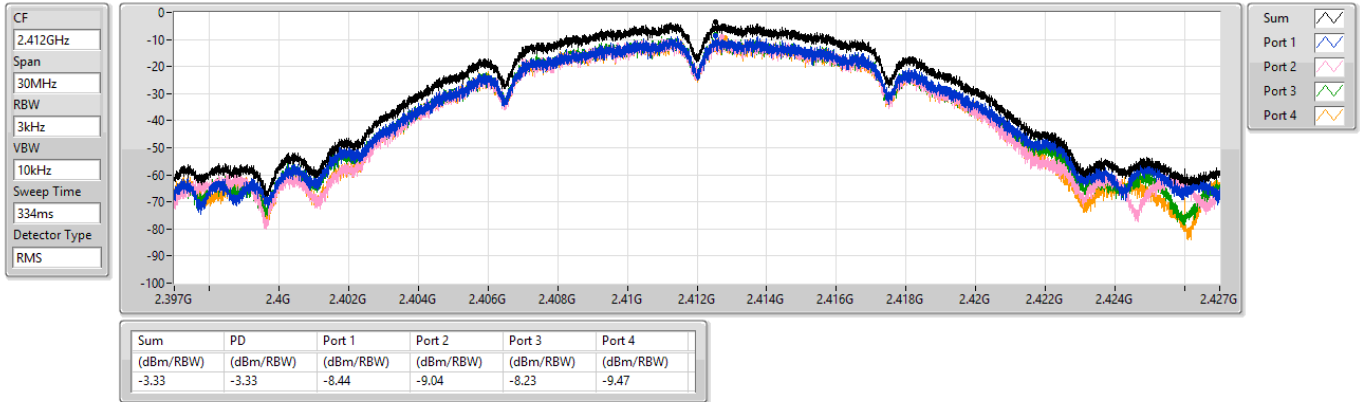
DG = Directional Gain; RBW = 3kHz;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

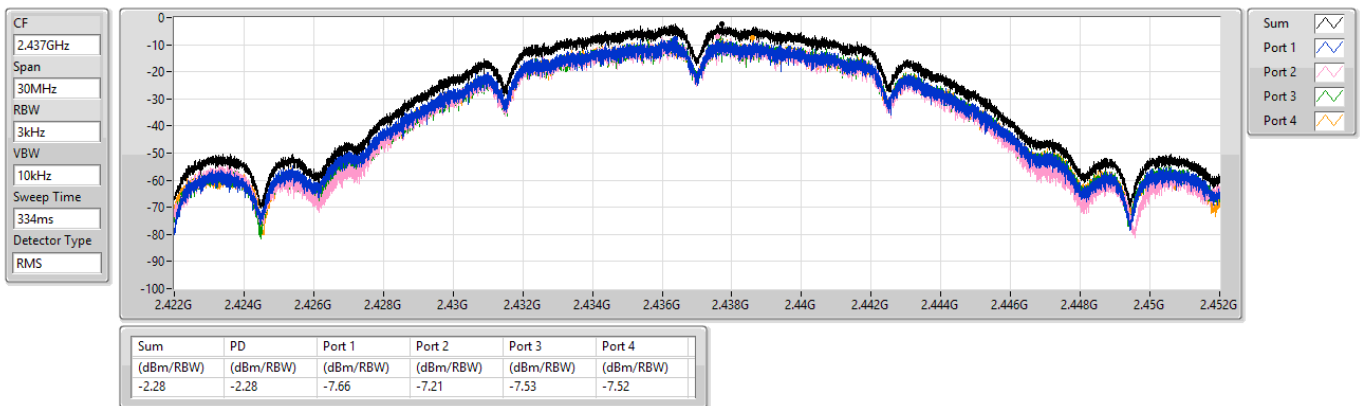
2412MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

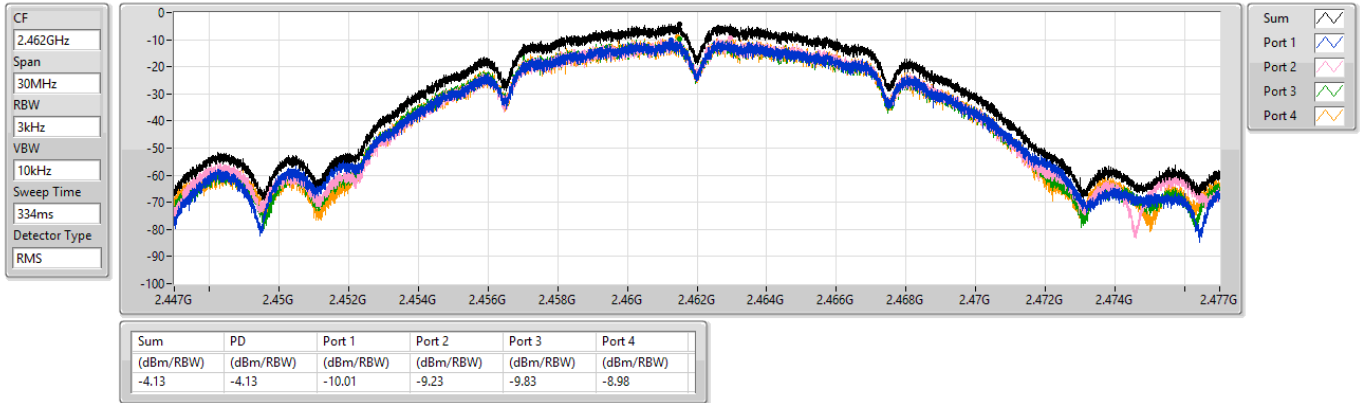
2437MHz



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

PSD

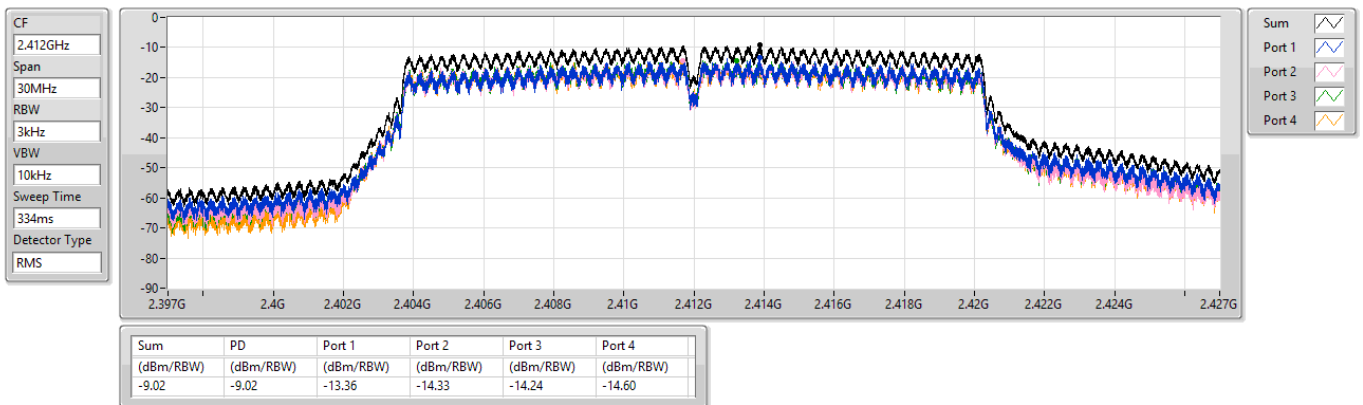
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

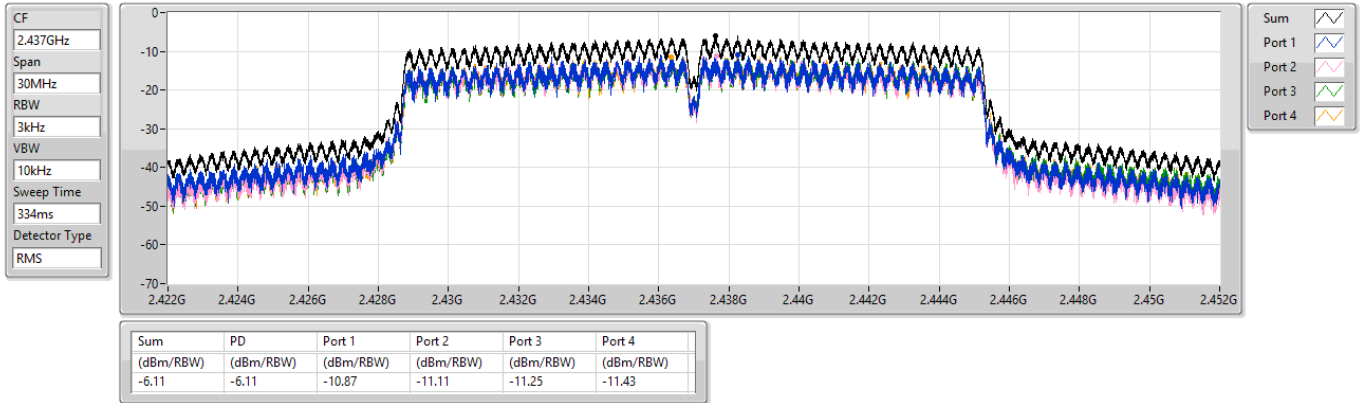
2412MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

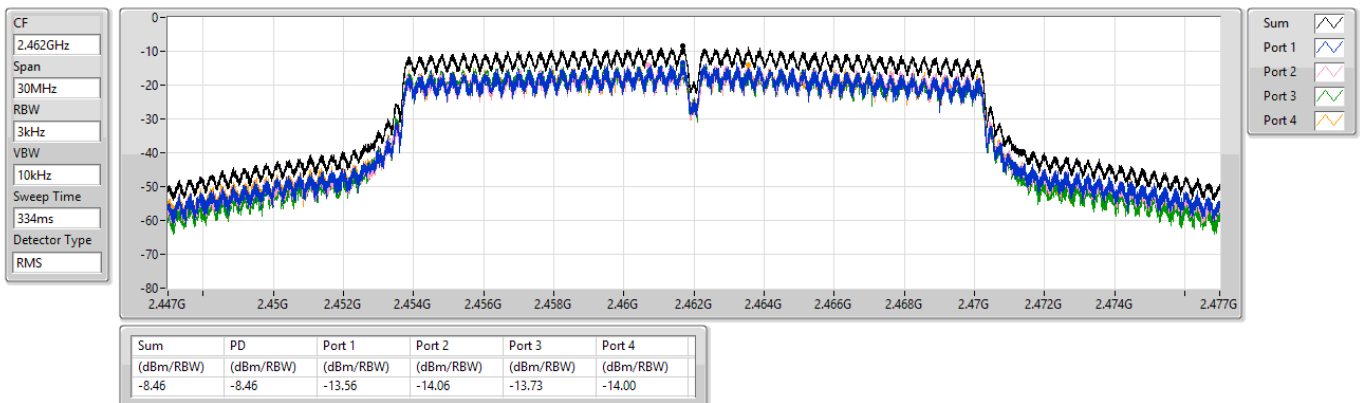
2437MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

PSD

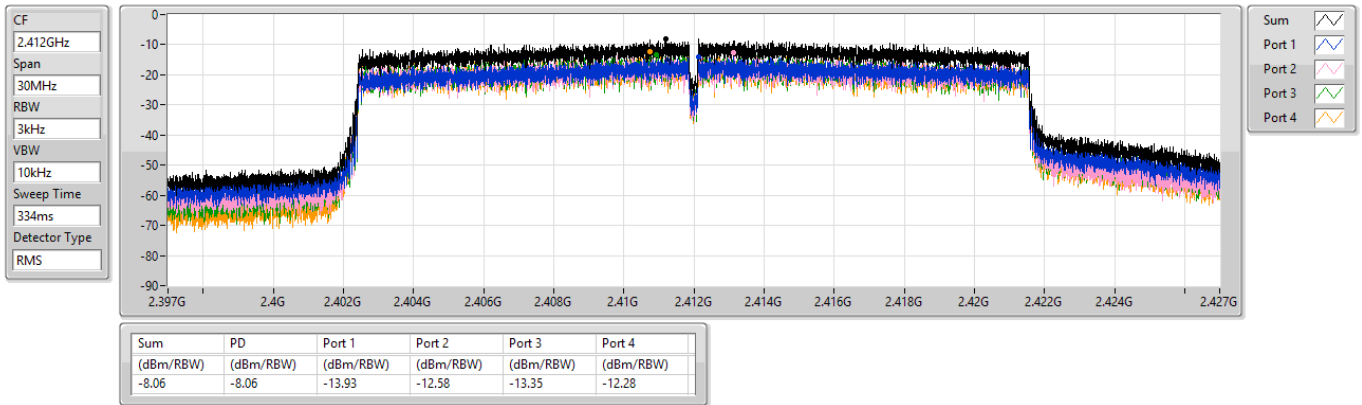
2462MHz



2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

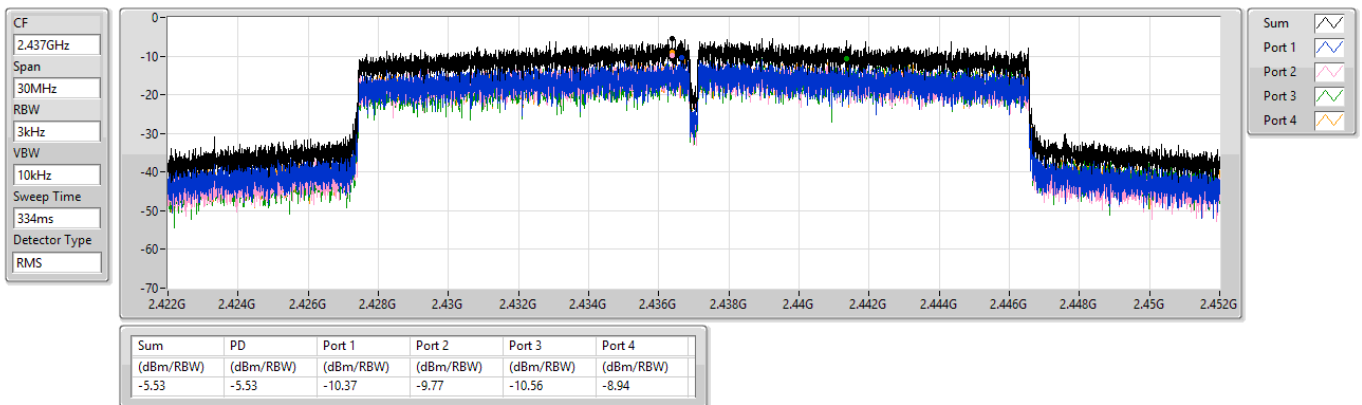
2412MHz



2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

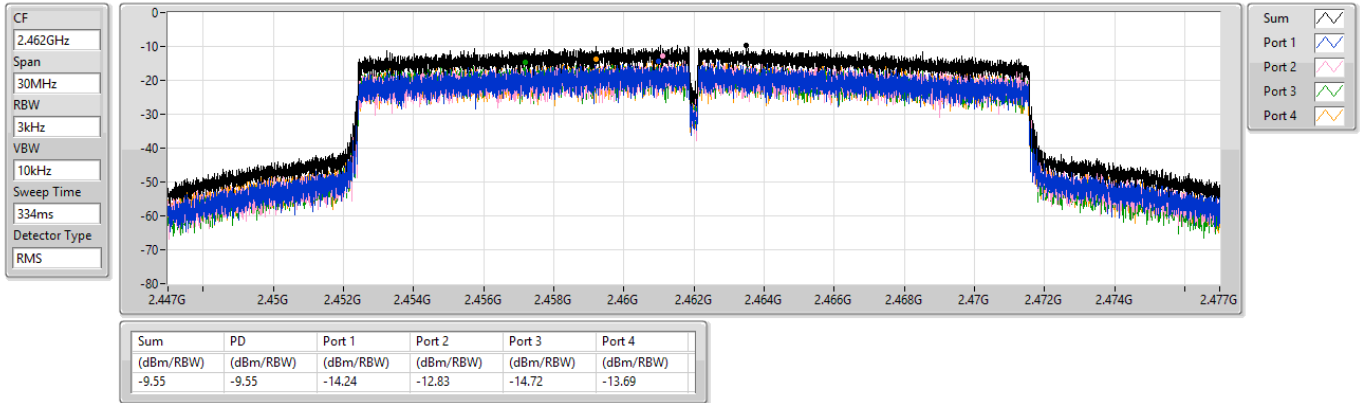
2437MHz



2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

PSD

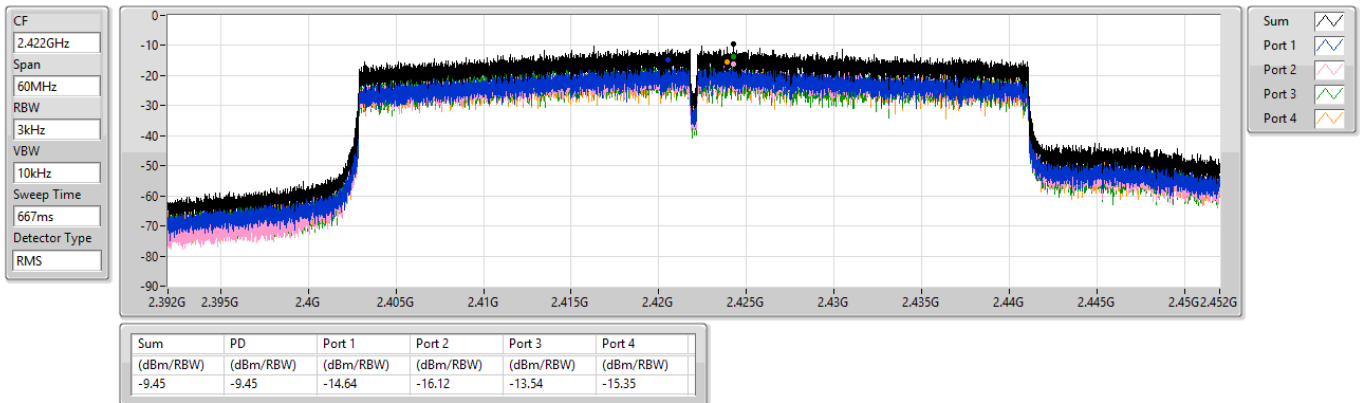
2462MHz



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

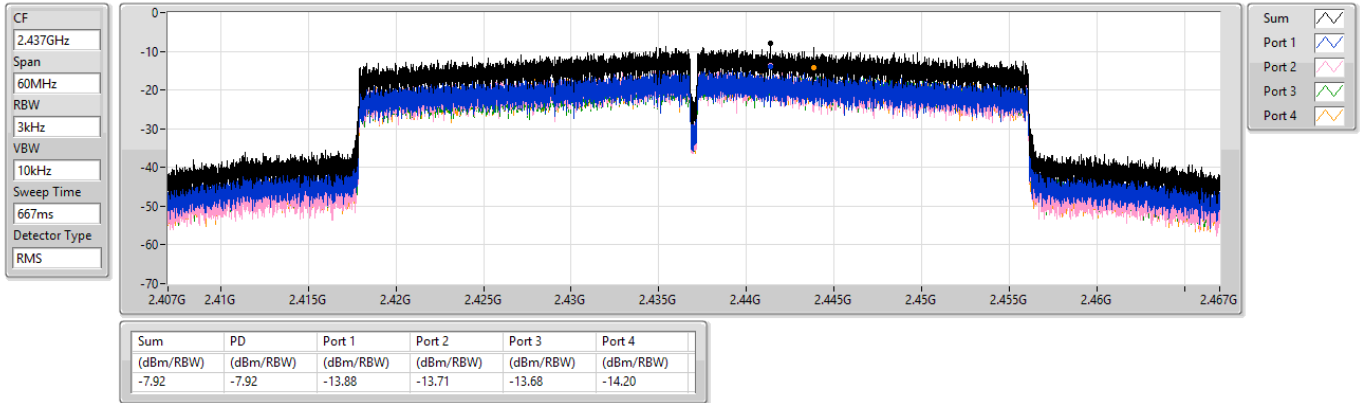
2422MHz



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

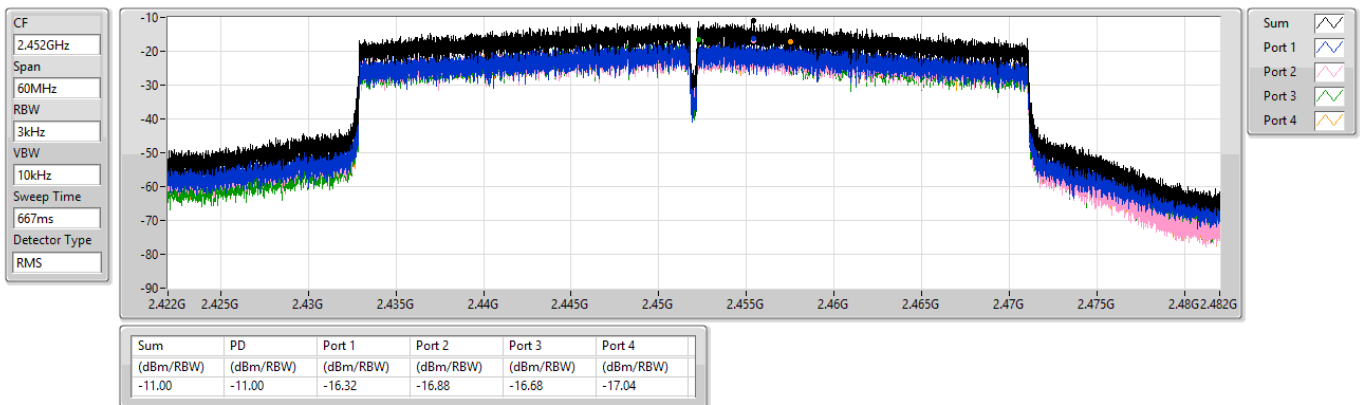
2437MHz



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

PSD

2452MHz



**Beamforming mode****Summary**

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11be EHT20-BF_Nss1,(MCS0)_4TX	-5.24
802.11be EHT40-BF_Nss1,(MCS0)_4TX	-9.95

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11be EHT20-BF_Nss1,(MCS0)_4TX								
2412MHz	Pass	5.88	-15.45	-15.18	-14.84	-14.62	-9.11	8.00
2437MHz	Pass	5.88	-11.07	-10.91	-10.63	-11.00	-5.24	8.00
2462MHz	Pass	5.88	-15.32	-14.59	-16.00	-14.94	-9.75	8.00
802.11be EHT40-BF_Nss1,(MCS0)_4TX								
2422MHz	Pass	5.88	-16.95	-17.78	-17.17	-16.15	-11.12	8.00
2437MHz	Pass	5.88	-14.39	-15.10	-15.46	-15.50	-9.95	8.00
2452MHz	Pass	5.88	-16.52	-17.03	-16.47	-17.19	-11.53	8.00

DG = Directional Gain; RBW = 3kHz;

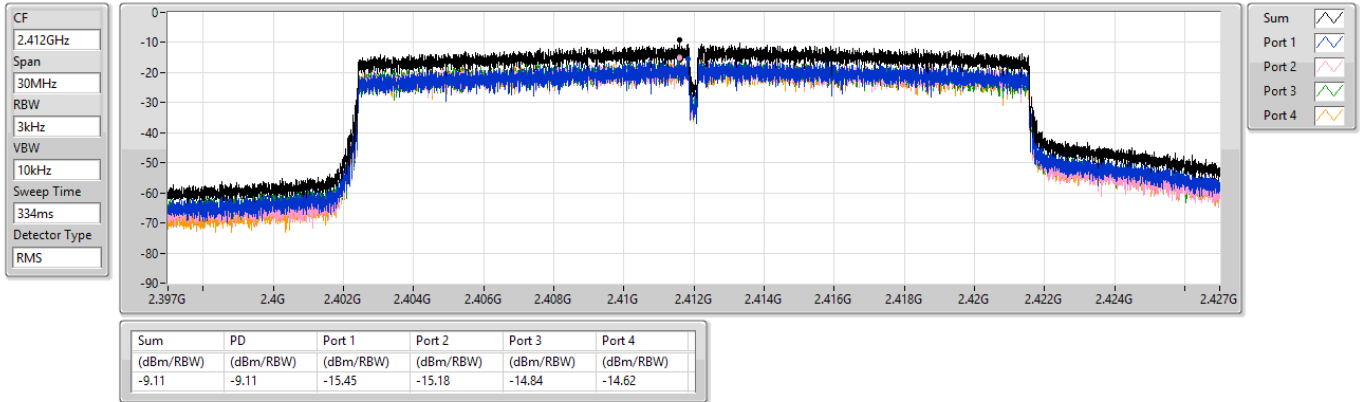
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

Directional Gain refers to antenna report.

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

PSD

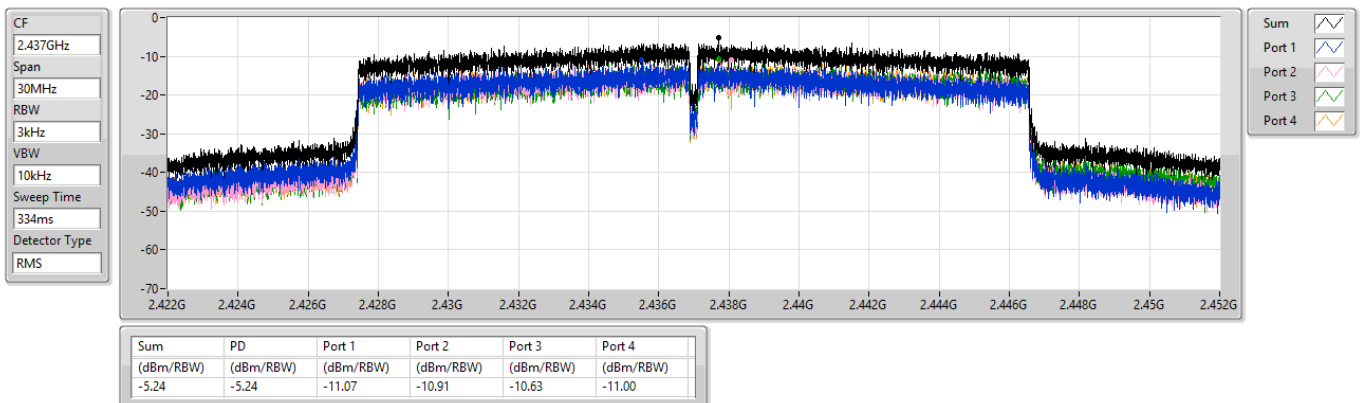
2412MHz



2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

PSD

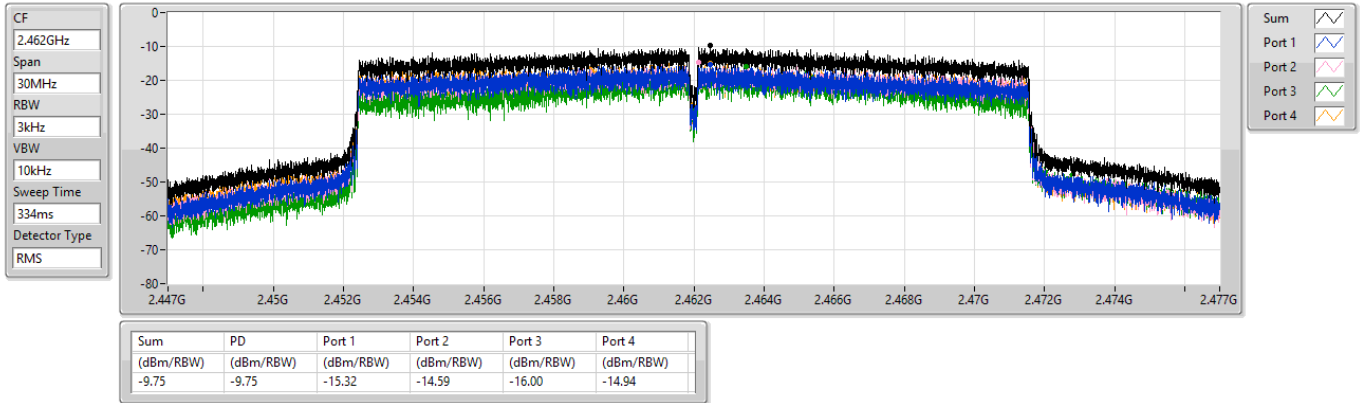
2437MHz



2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

PSD

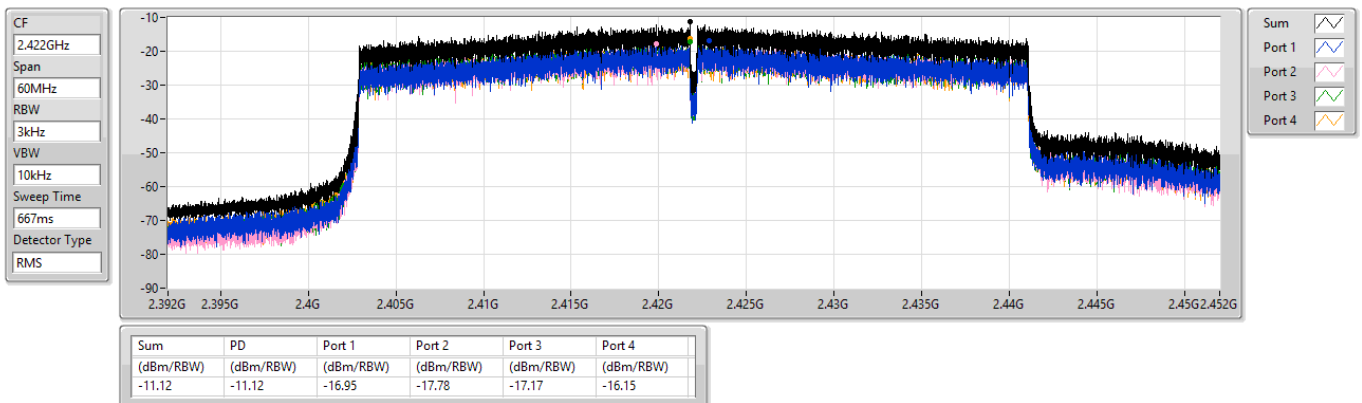
2462MHz



2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

PSD

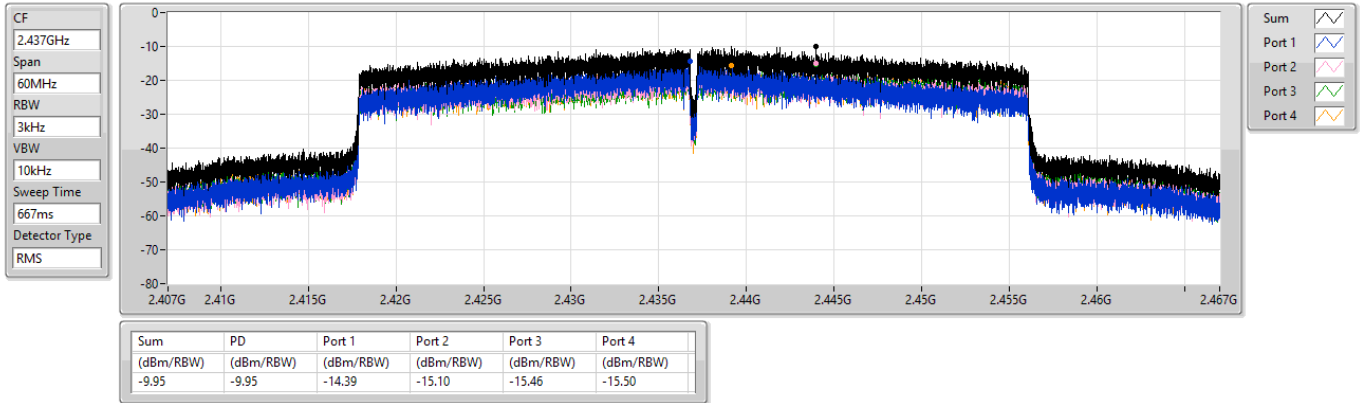
2422MHz



2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

PSD

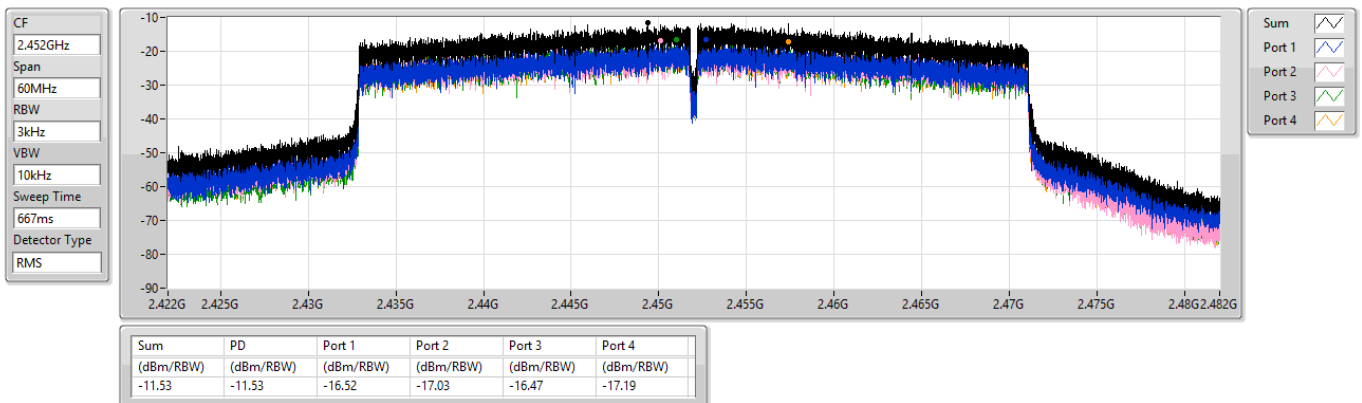
2437MHz



2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

PSD

2452MHz





Non-beamforming mode

Configuration 1: Model: SDG-8733

Unwanted Emissions (Below 1GHz)

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) <			



Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) </			

Unwanted Emission (Above 1GHz) for 11b

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m) </			



Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m)			



Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :Allen Lee Temperature(°C):24 Humidity(%):61			
Level (dBuV/m)			



Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Allen Lee Temperature(°C):24 Humidity(%):61			
Level (dBuV/m) <			



Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m) <			



Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m)			

Unwanted Emissions (Above 1GHz) for 11g

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m)			



Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m) <			



Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m) </			



Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m)			



Modulation	11g	Test Freq. (MHz)	2462																																																																						
Polarization	Horizontal																																																																								
Test By :Sean Yu Temperature(°C):23 Humidity(%):61																																																																									
Level (dBuV/m) 1 2 3 4 5 6 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) CLASS-B CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>2483.50</td><td>52.48</td><td>54.00</td><td>-1.52</td><td>57.23</td><td>-4.75</td><td>Average</td><td>110</td><td>144</td></tr><tr><td>2</td><td>2483.50</td><td>72.60</td><td>74.00</td><td>-1.40</td><td>77.35</td><td>-4.75</td><td>Peak</td><td>110</td><td>144</td></tr><tr><td>3</td><td>4924.00</td><td>32.97</td><td>54.00</td><td>-21.03</td><td>33.41</td><td>-0.44</td><td>Average</td><td>100</td><td>226</td></tr><tr><td>4</td><td>4924.00</td><td>47.48</td><td>74.00</td><td>-26.52</td><td>47.92</td><td>-0.44</td><td>Peak</td><td>100</td><td>226</td></tr><tr><td>5</td><td>7386.00</td><td>37.84</td><td>54.00</td><td>-16.16</td><td>32.81</td><td>5.03</td><td>Average</td><td>100</td><td>43</td></tr><tr><td>6</td><td>7386.00</td><td>52.25</td><td>74.00</td><td>-21.75</td><td>47.22</td><td>5.03</td><td>Peak</td><td>100</td><td>43</td></tr></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2483.50	52.48	54.00	-1.52	57.23	-4.75	Average	110	144	2	2483.50	72.60	74.00	-1.40	77.35	-4.75	Peak	110	144	3	4924.00	32.97	54.00	-21.03	33.41	-0.44	Average	100	226	4	4924.00	47.48	74.00	-26.52	47.92	-0.44	Peak	100	226	5	7386.00	37.84	54.00	-16.16	32.81	5.03	Average	100	43	6	7386.00	52.25	74.00	-21.75	47.22	5.03	Peak	100	43
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																
1	2483.50	52.48	54.00	-1.52	57.23	-4.75	Average	110	144																																																																
2	2483.50	72.60	74.00	-1.40	77.35	-4.75	Peak	110	144																																																																
3	4924.00	32.97	54.00	-21.03	33.41	-0.44	Average	100	226																																																																
4	4924.00	47.48	74.00	-26.52	47.92	-0.44	Peak	100	226																																																																
5	7386.00	37.84	54.00	-16.16	32.81	5.03	Average	100	43																																																																
6	7386.00	52.25	74.00	-21.75	47.22	5.03	Peak	100	43																																																																



Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m)			

Unwanted Emissions (Above 1GHz) for be EHT20

Modulation	be EHT20	Test Freq. (MHz)	2412
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m)			



Modulation	be EHT20		Test Freq. (MHz)		2412	
Polarization	Vertical					
Test By :Sean Yu Temperature(°C):25 Humidity(%):62						
Level (dBuV/m) </						



Modulation	be EHT20	Test Freq. (MHz)	2437																																																																																										
Polarization	Horizontal																																																																																												
Test By :Sean Yu Temperature(°C):23 Humidity(%):61																																																																																													
Level (dBuV/m) 1 2 3 4 5 6 7 8 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) CLASS-B CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>2390.00</td><td>51.23</td><td>54.00</td><td>-2.77</td><td>55.61</td><td>-4.38</td><td>Average</td><td>115</td><td>329</td></tr><tr><td>2</td><td>2390.00</td><td>70.63</td><td>74.00</td><td>-3.37</td><td>75.01</td><td>-4.38</td><td>Peak</td><td>115</td><td>329</td></tr><tr><td>3</td><td>2483.50</td><td>48.29</td><td>54.00</td><td>-5.71</td><td>53.04</td><td>-4.75</td><td>Average</td><td>115</td><td>329</td></tr><tr><td>4</td><td>2483.50</td><td>67.47</td><td>74.00</td><td>-6.53</td><td>72.22</td><td>-4.75</td><td>Peak</td><td>115</td><td>329</td></tr><tr><td>5</td><td>4874.00</td><td>36.85</td><td>54.00</td><td>-17.15</td><td>37.35</td><td>-0.50</td><td>Average</td><td>100</td><td>194</td></tr><tr><td>6</td><td>4874.00</td><td>49.07</td><td>74.00</td><td>-24.93</td><td>49.57</td><td>-0.50</td><td>Peak</td><td>100</td><td>194</td></tr><tr><td>7</td><td>7311.00</td><td>41.48</td><td>54.00</td><td>-12.52</td><td>36.32</td><td>5.16</td><td>Average</td><td>190</td><td>213</td></tr><tr><td>8</td><td>7311.00</td><td>54.46</td><td>74.00</td><td>-19.54</td><td>49.30</td><td>5.16</td><td>Peak</td><td>190</td><td>213</td></tr></table> Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor, cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	1	2390.00	51.23	54.00	-2.77	55.61	-4.38	Average	115	329	2	2390.00	70.63	74.00	-3.37	75.01	-4.38	Peak	115	329	3	2483.50	48.29	54.00	-5.71	53.04	-4.75	Average	115	329	4	2483.50	67.47	74.00	-6.53	72.22	-4.75	Peak	115	329	5	4874.00	36.85	54.00	-17.15	37.35	-0.50	Average	100	194	6	4874.00	49.07	74.00	-24.93	49.57	-0.50	Peak	100	194	7	7311.00	41.48	54.00	-12.52	36.32	5.16	Average	190	213	8	7311.00	54.46	74.00	-19.54	49.30	5.16	Peak	190	213
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																				
1	2390.00	51.23	54.00	-2.77	55.61	-4.38	Average	115	329																																																																																				
2	2390.00	70.63	74.00	-3.37	75.01	-4.38	Peak	115	329																																																																																				
3	2483.50	48.29	54.00	-5.71	53.04	-4.75	Average	115	329																																																																																				
4	2483.50	67.47	74.00	-6.53	72.22	-4.75	Peak	115	329																																																																																				
5	4874.00	36.85	54.00	-17.15	37.35	-0.50	Average	100	194																																																																																				
6	4874.00	49.07	74.00	-24.93	49.57	-0.50	Peak	100	194																																																																																				
7	7311.00	41.48	54.00	-12.52	36.32	5.16	Average	190	213																																																																																				
8	7311.00	54.46	74.00	-19.54	49.30	5.16	Peak	190	213																																																																																				



Modulation	be EHT20	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m) </			



Modulation	be EHT20	Test Freq. (MHz)	2462
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m)			



Modulation	be EHT20	Test Freq. (MHz)	2462
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m) <			

Unwanted Emissions (Above 1GHz) for be EHT40

Modulation	be EHT40	Test Freq. (MHz)	2422
Polarization	Horizontal		
Test By :Allen Lee Temperature(°C):24 Humidity(%):61			
Level (dBuV/m)			

Modulation	be EHT40	Test Freq. (MHz)	2422
Polarization	Vertical		
Test By :Allen Lee Temperature(°C):24 Humidity(%):61			
Level (dBuV/m)			



Modulation	be EHT40	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :Allen Lee Temperature(°C):24 Humidity(%):61			
Level (dBuV/m) </			



Modulation	be EHT40	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Allen Lee Temperature(°C):24 Humidity(%):61			
Level (dBuV/m) </			



Modulation	be EHT40	Test Freq. (MHz)	2452
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m)			



Modulation	be EHT40	Test Freq. (MHz)	2452
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):23 Humidity(%):61			
Level (dBuV/m)			



Configuration 2: Model: SDG-8734
Unwanted Emissions (Below 1GHz)

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :Allen Lee Temperature(°C):24 Humidity(%):62			
Level (dBUV/m)			



Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Allen Lee Temperature(°C):24 Humidity(%):62			
Level (dBUV/m)			



Beamforming mode

Configuration 1: Model: SDG-8733

Unwanted Emissions (Below 1GHz)

Modulation	be EHT20	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) <			



Modulation	be EHT20	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):25 Humidity(%):61			
Level (dBuV/m) </			

Unwanted Emissions (Above 1GHz) for be EHT20

Modulation	be EHT20	Test Freq. (MHz)	2412
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):62			
Level (dBUV/m) <			



Modulation	be EHT20	Test Freq. (MHz)	2412
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m) </			



Modulation	be EHT20	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m) </			



Modulation	be EHT20	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m) </			



Modulation	be EHT20	Test Freq. (MHz)	2462
Polarization	Horizontal		
Test By :Sean Yu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m) <			



Modulation	be EHT20	Test Freq. (MHz)	2462
Polarization	Vertical		
Test By :Sean Yu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m) <			

Unwanted Emissions (Above 1GHz) for be EHT40

Modulation	be EHT40	Test Freq. (MHz)	2422
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):25 Humidity(%):62			
Level (dBUV/m)			



Modulation	be EHT40	Test Freq. (MHz)	2422
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m)			



Modulation	be EHT40	Test Freq. (MHz)	2437						
Polarization	Horizontal								
Test By :Roger Lu Temperature(°C):25 Humidity(%):62									
Level (dBUV/m) Frequency (MHz)									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	53.85	54.00	-0.15	58.23	-4.38	Average	214	351
2	2390.00	72.61	74.00	-1.39	76.99	-4.38	Peak	214	351
3	2483.50	51.89	54.00	-2.11	56.64	-4.75	Average	214	351
4	2483.50	66.51	74.00	-7.49	71.26	-4.75	Peak	214	351
5	4874.00	30.76	54.00	-23.24	31.26	-0.50	Average	100	108
6	4874.00	44.87	74.00	-29.13	45.37	-0.50	Peak	100	108
7	7311.00	36.61	54.00	-17.39	31.45	5.16	Average	100	43
8	7311.00	50.93	74.00	-23.07	45.77	5.16	Peak	100	43
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).									



Modulation	be EHT40	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m)			



Modulation	be EHT40	Test Freq. (MHz)	2452
Polarization	Horizontal		
Test By :Roger Lu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m)			



Modulation	be EHT40	Test Freq. (MHz)	2452
Polarization	Vertical		
Test By :Roger Lu Temperature(°C):25 Humidity(%):62			
Level (dBuV/m) </			



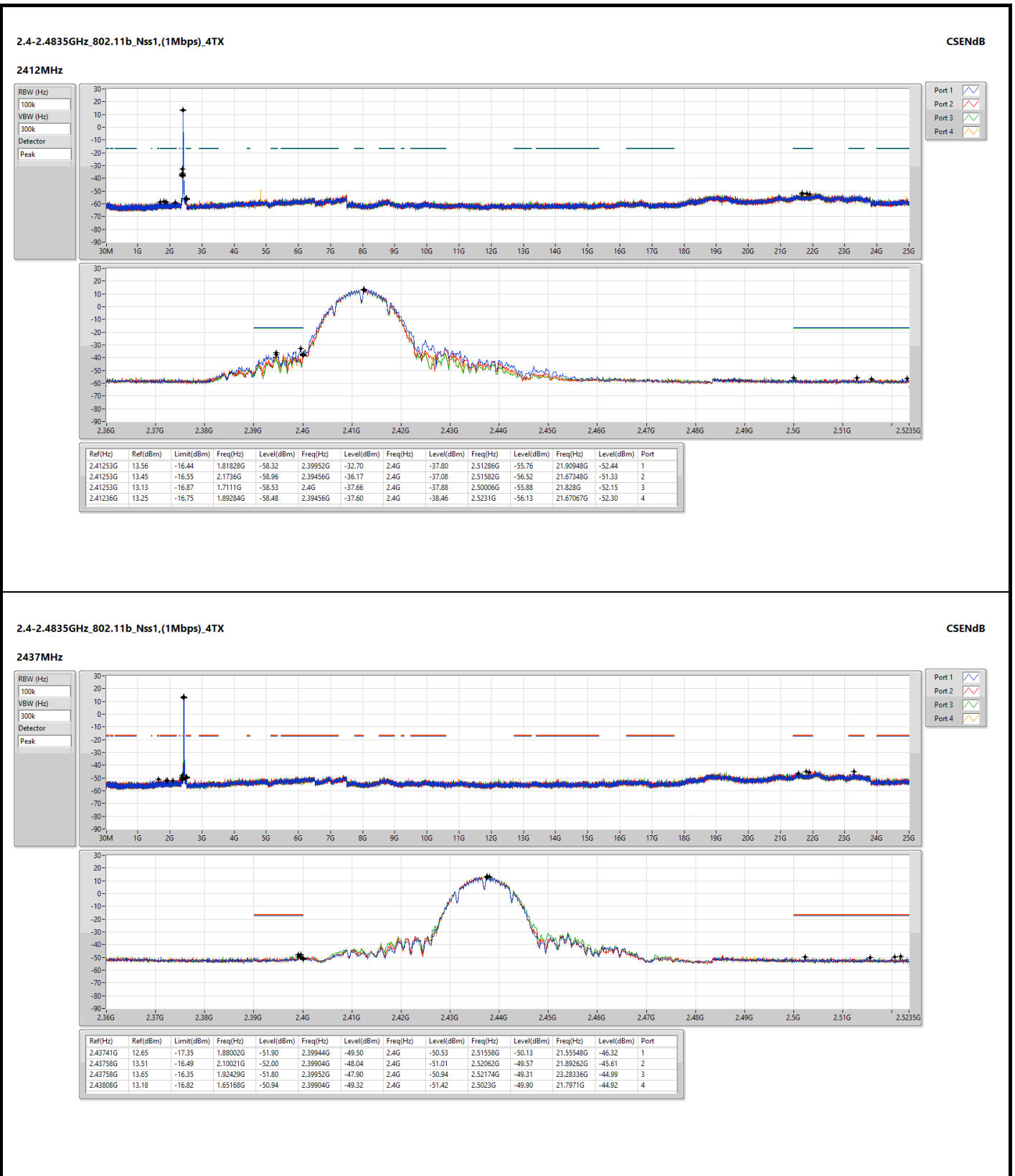
Configuration 2: Model: SDG-8734
Unwanted Emissions (Below 1GHz)

Modulation	be EHT20	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :Allen Lee Temperature(°C):24 Humidity(%):62			
Level (dBUV/m)			



Modulation	be EHT20		Test Freq. (MHz)		2437	
Polarization	Vertical					
Test By :Allen Lee Temperature(°C):24 Humidity(%):62						
Level (dBuV/m) <						

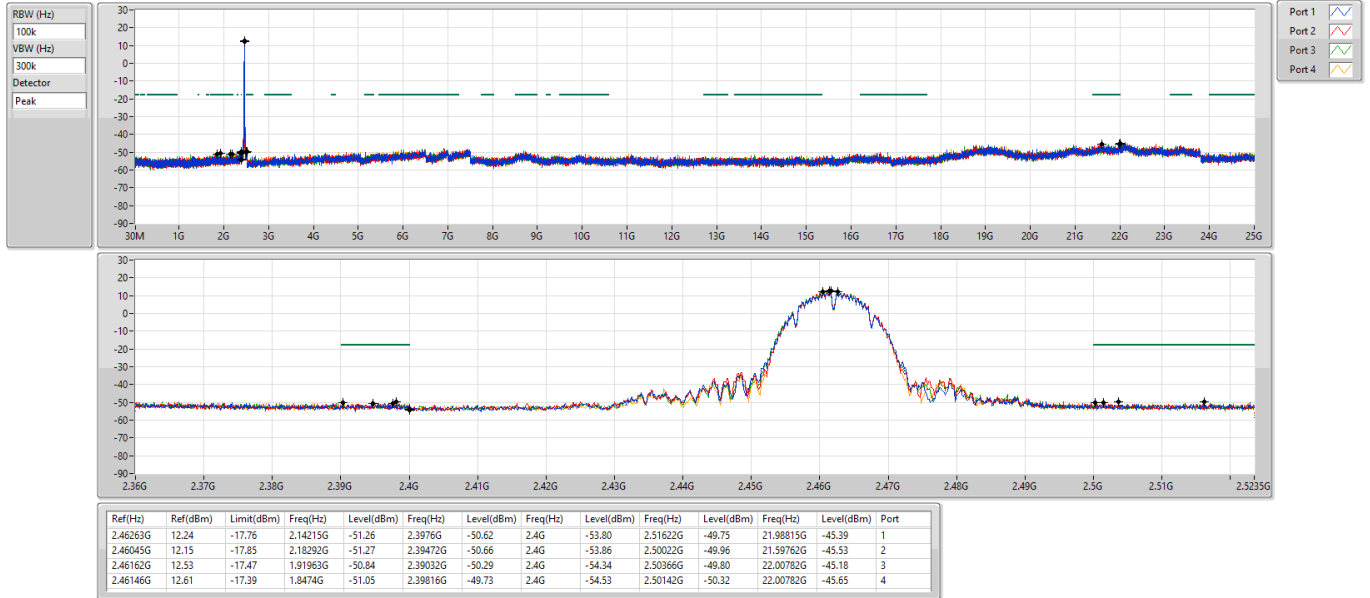
Non-beamforming mode



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_4TX

CSEndB

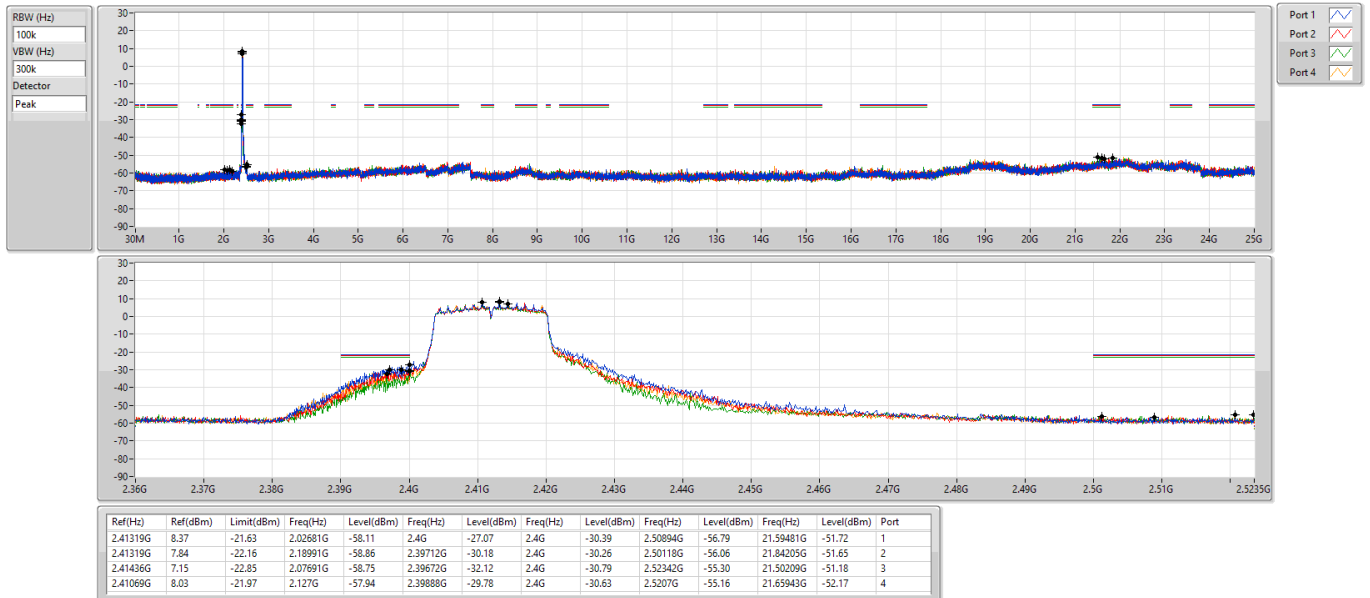
2462MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

CSEndB

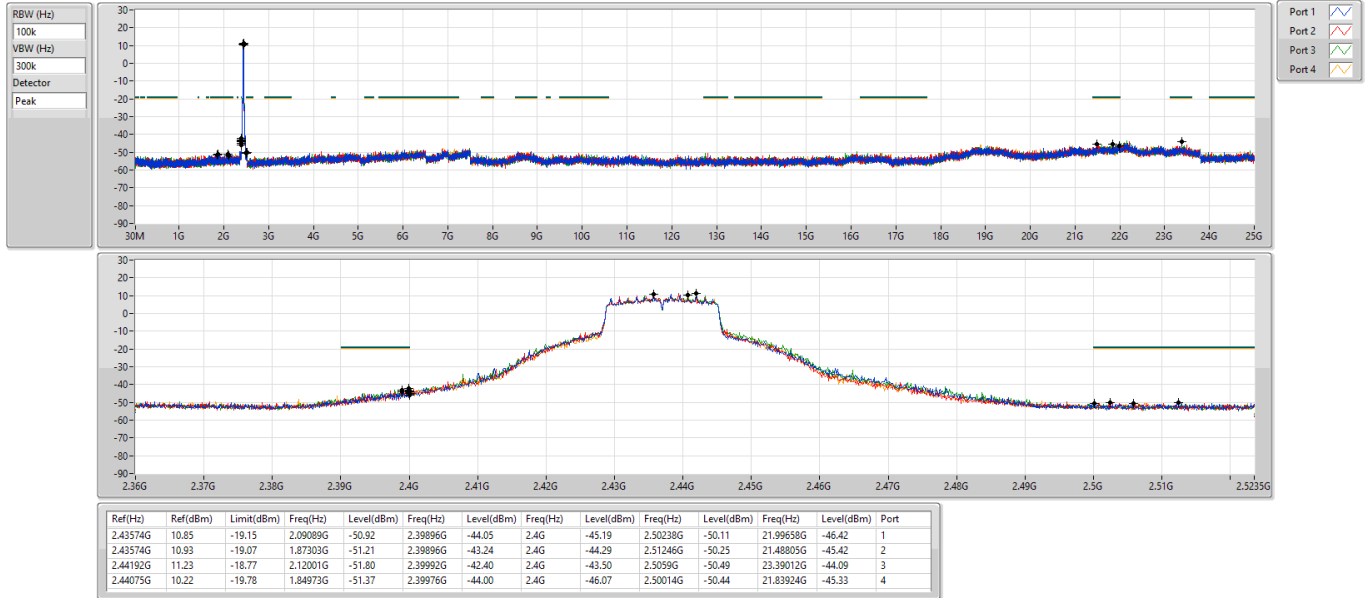
2412MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

CSEndB

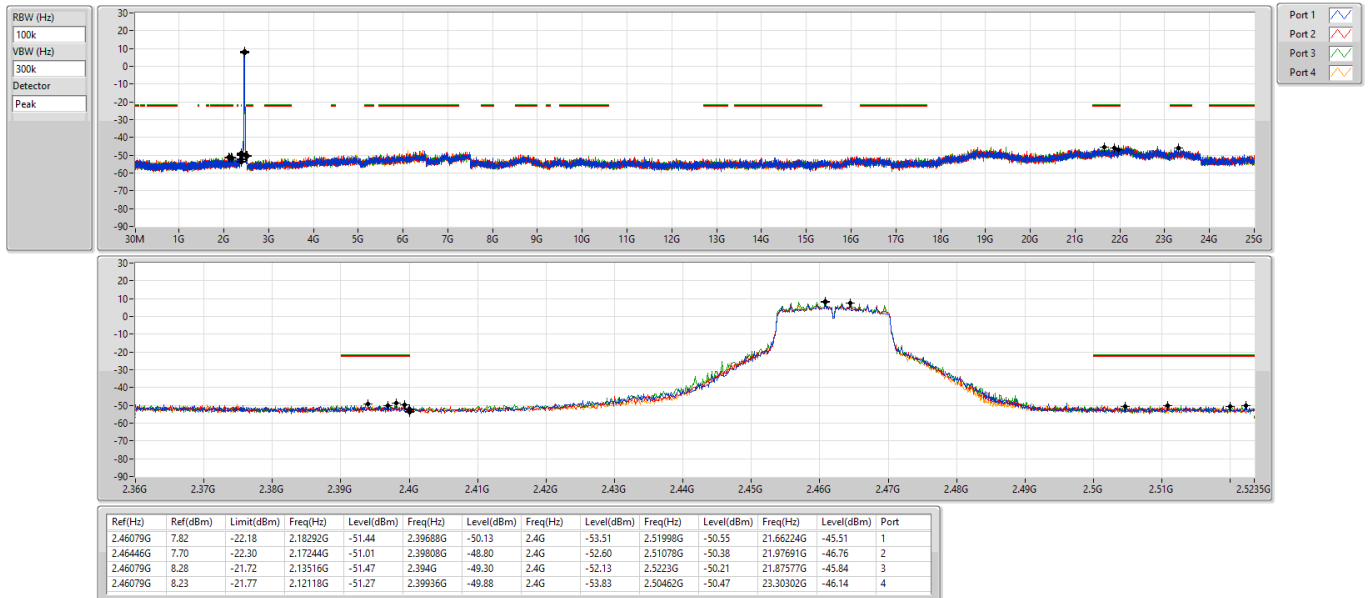
2437MHz



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_4TX

CSEndB

2462MHz

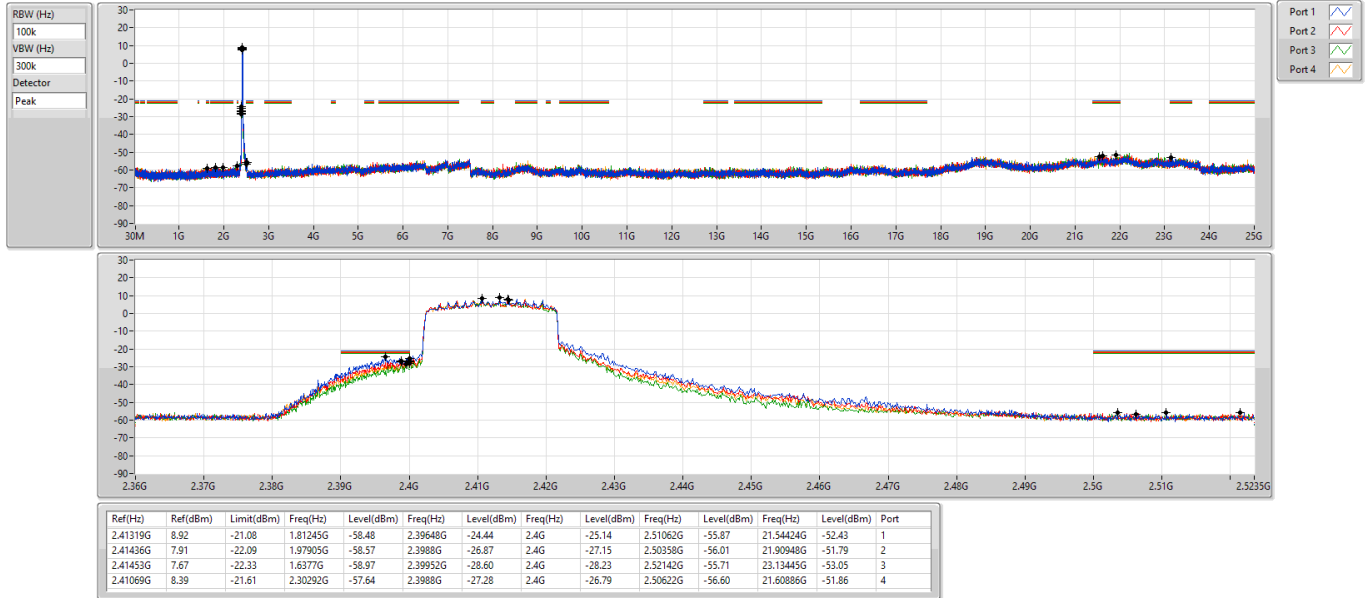




2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSEndB

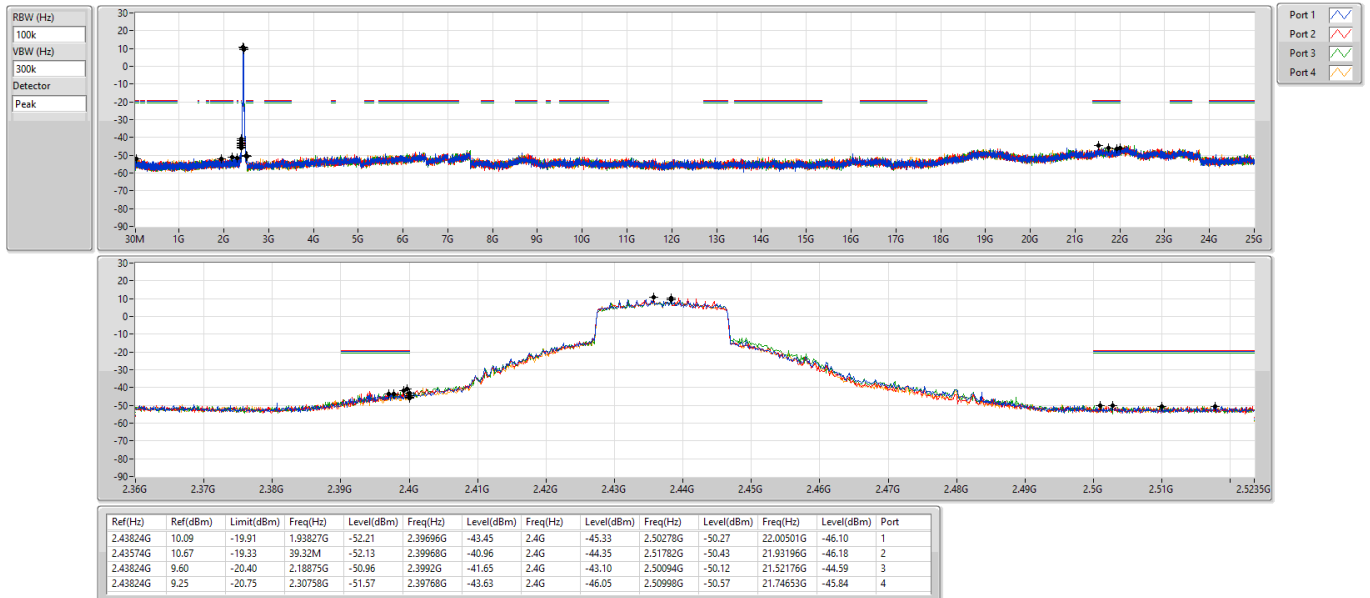
2412MHz



2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSEndB

2437MHz

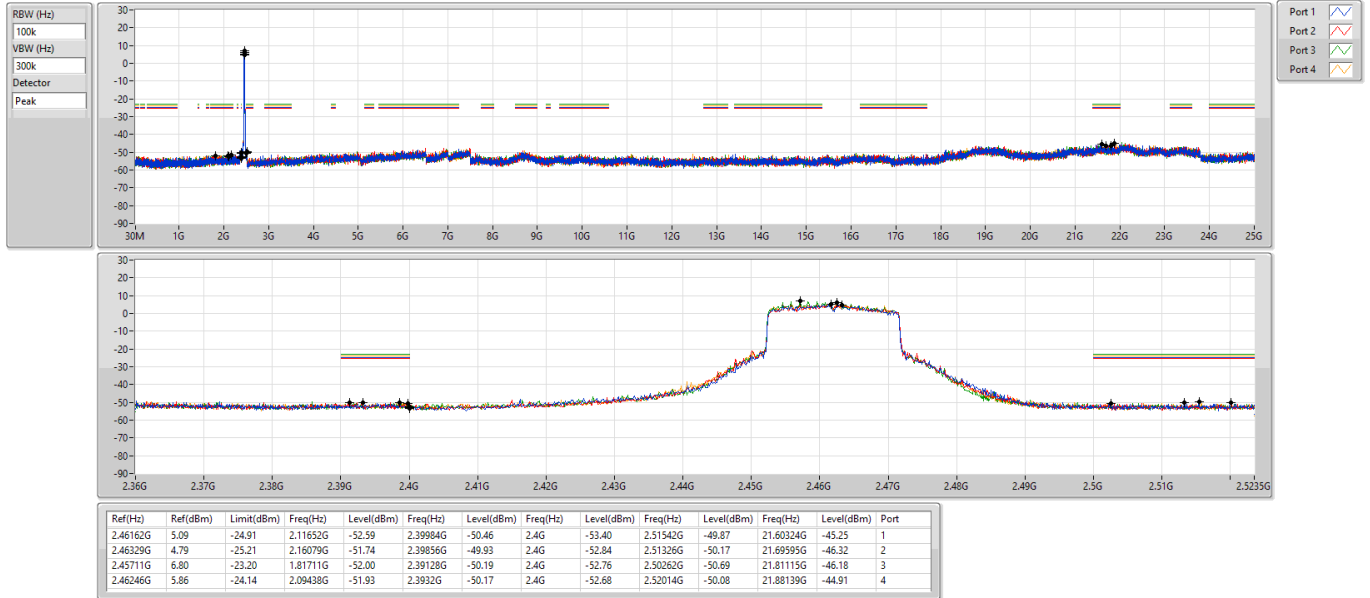




2.4-2.4835GHz_802.11be EHT20_Nss1,(MCS0)_4TX

CSEndB

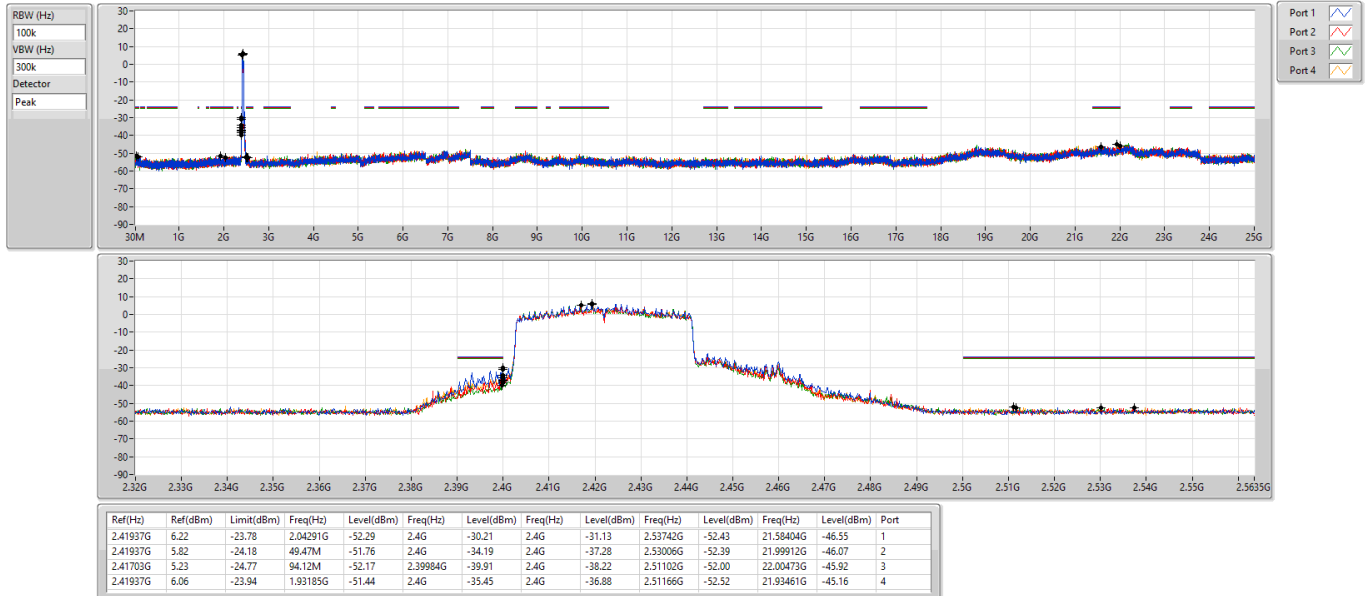
2462MHz



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

CSEndB

2422MHz

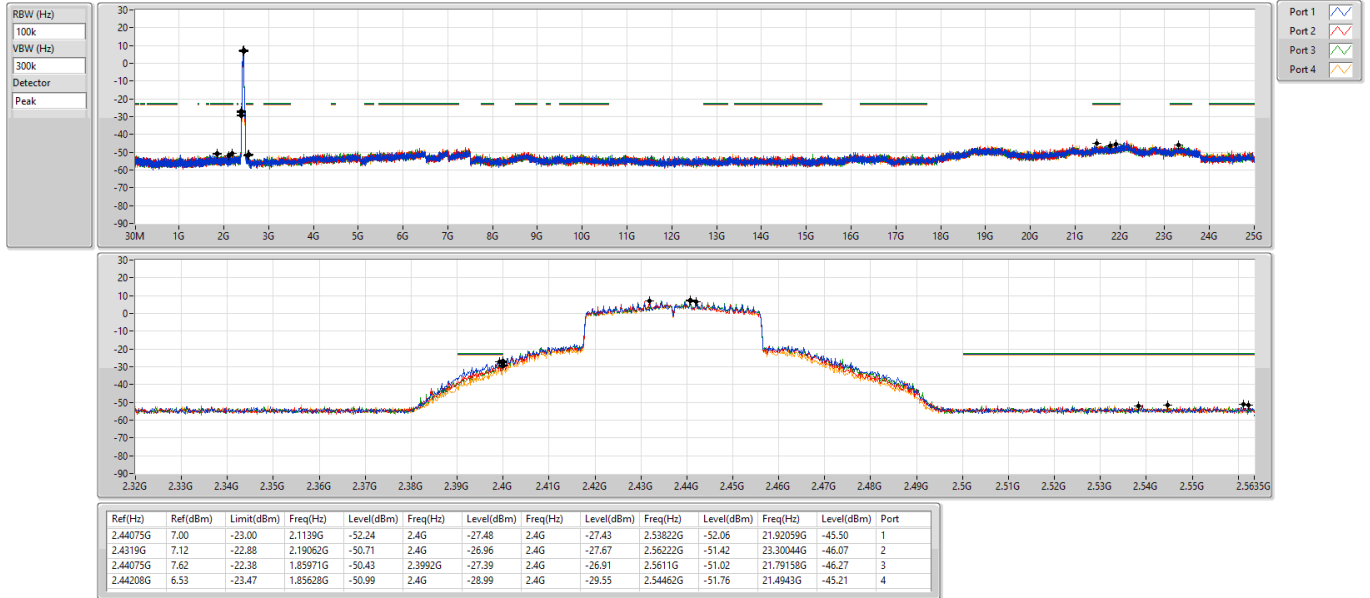




2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

CSEndB

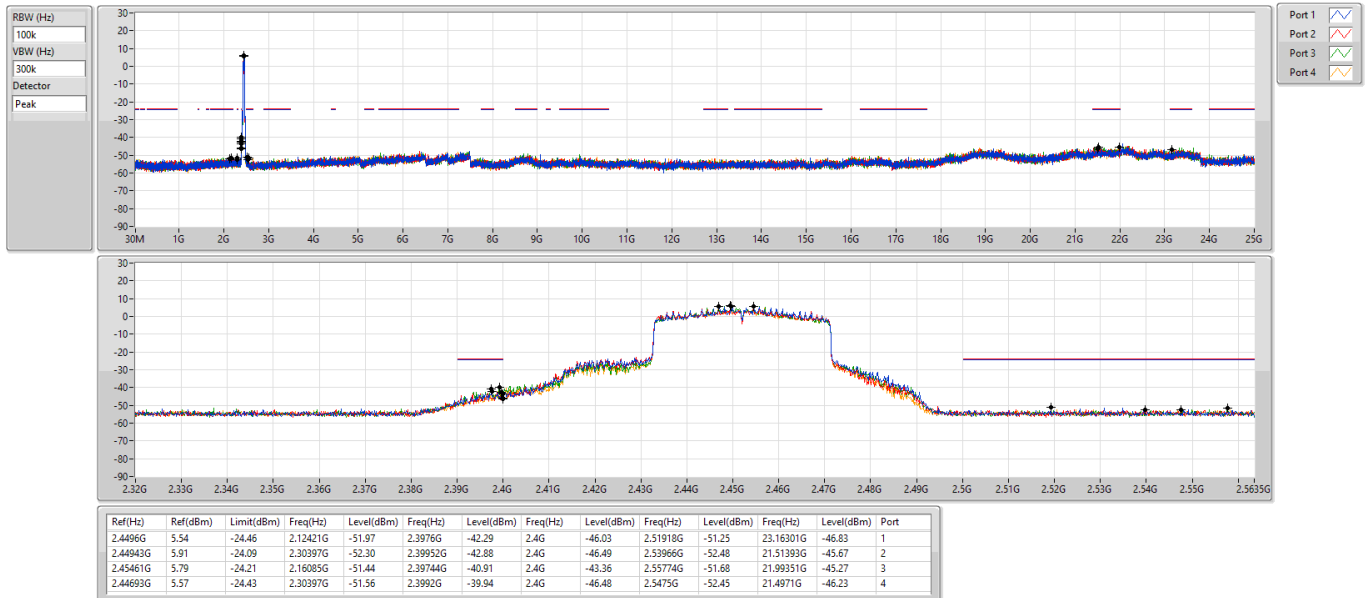
2437MHz



2.4-2.4835GHz_802.11be EHT40_Nss1,(MCS0)_4TX

CSEndB

2452MHz

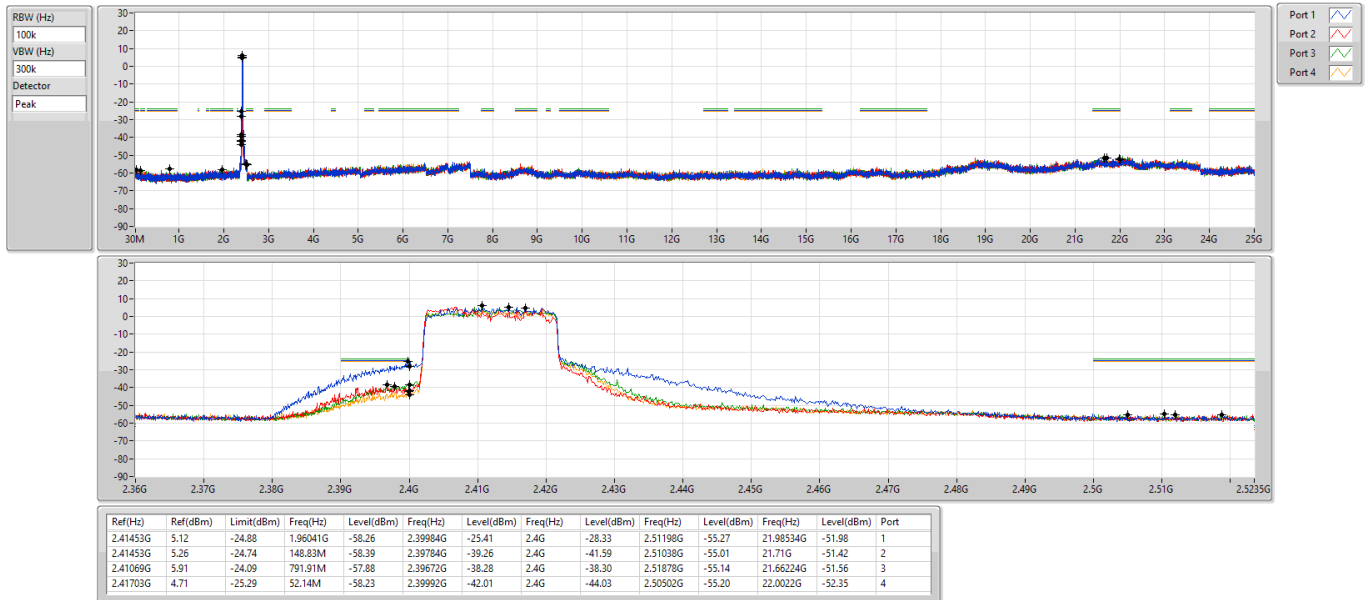


Beamforming mode

2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

CSEndB

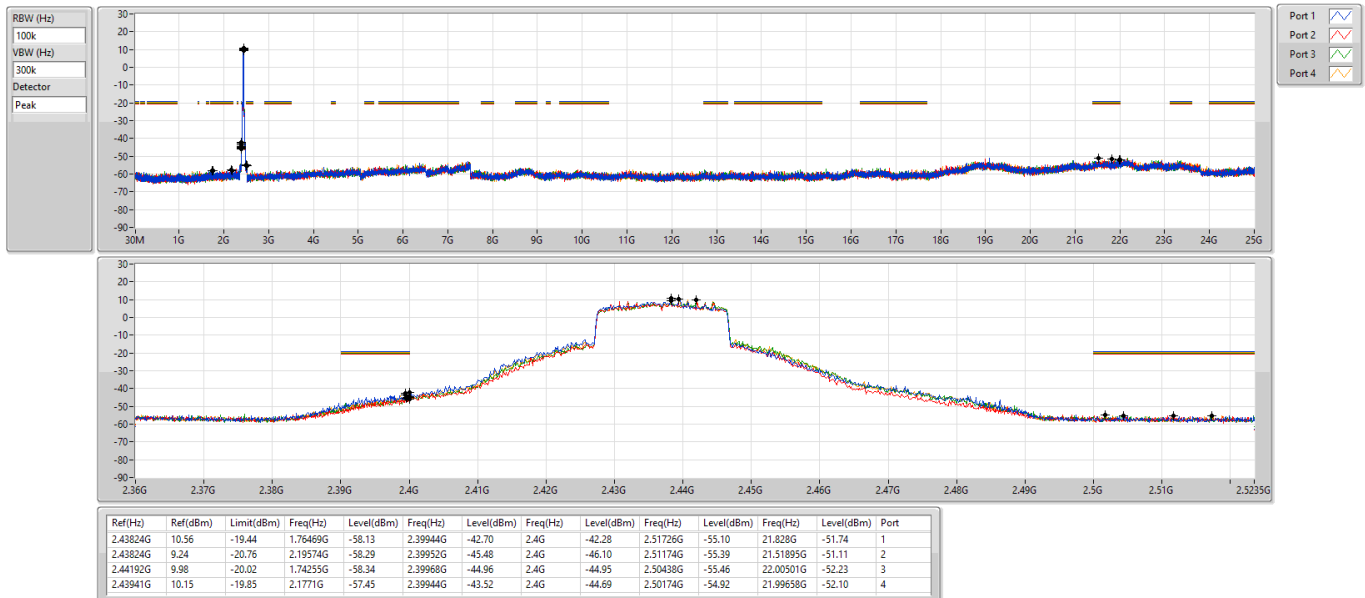
2412MHz



2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

CSEndB

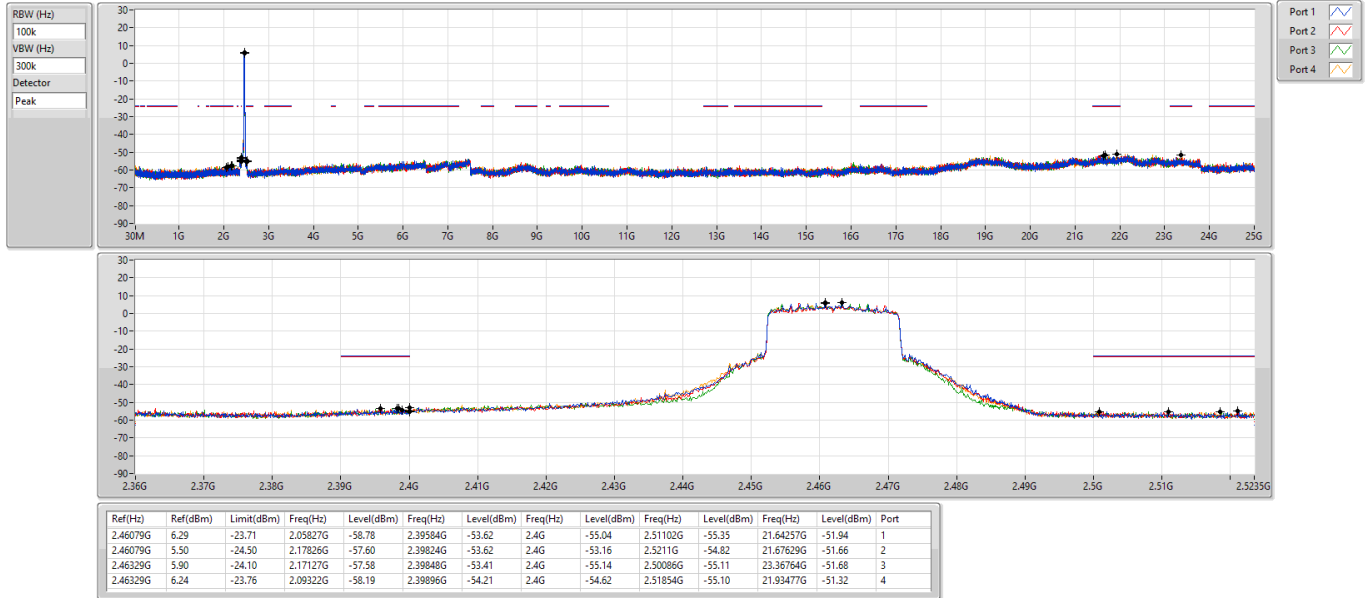
2437MHz



2.4-2.4835GHz_802.11be EHT20-BF_Nss1,(MCS0)_4TX

CSEndB

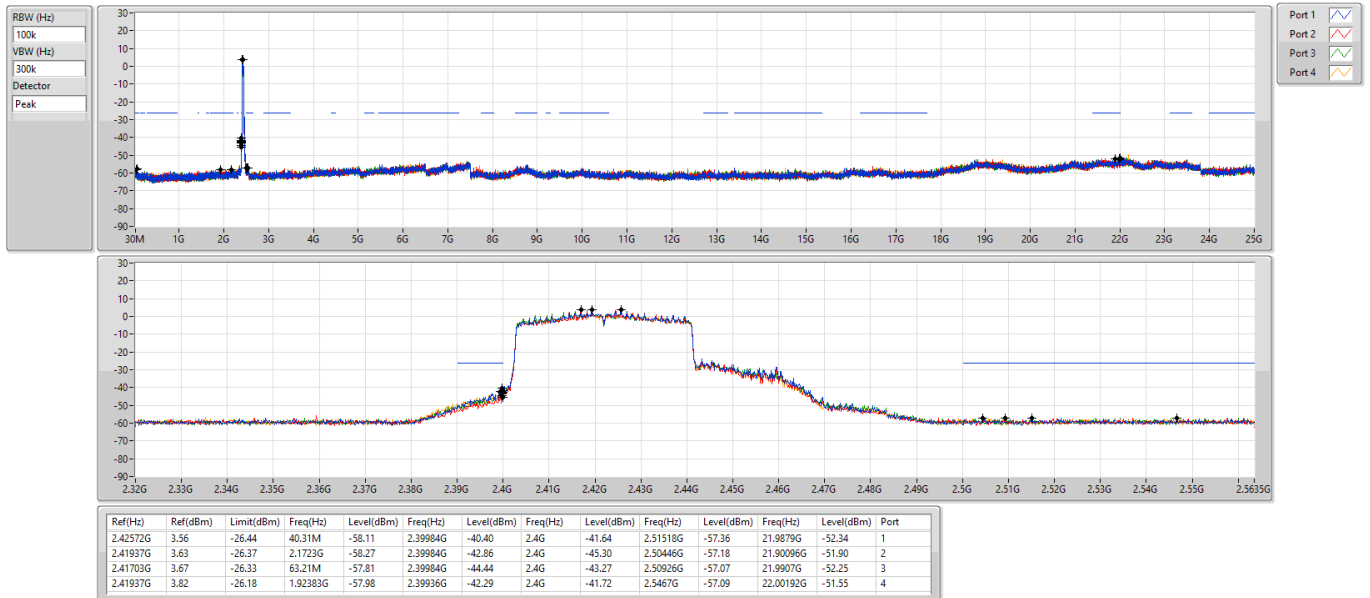
2462MHz



2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

CSEndB

2422MHz



2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

CSEndB

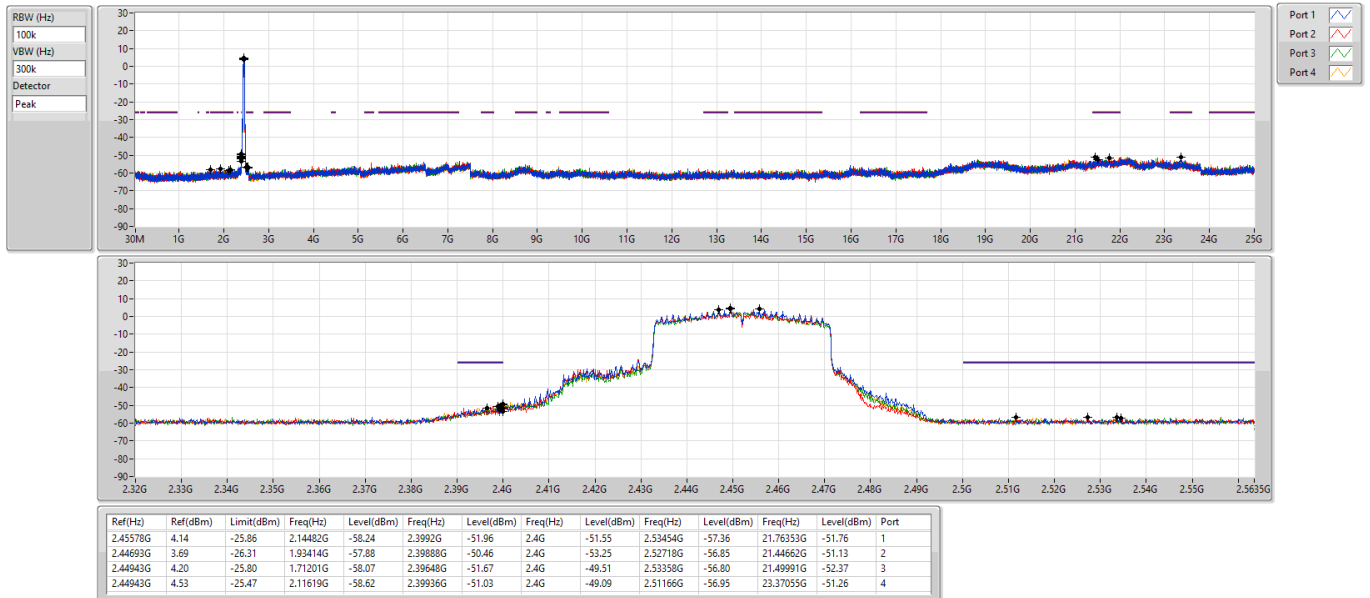
2437MHz



2.4-2.4835GHz_802.11be EHT40-BF_Nss1,(MCS0)_4TX

CSEndB

2452MHz





Non-beamforming mode

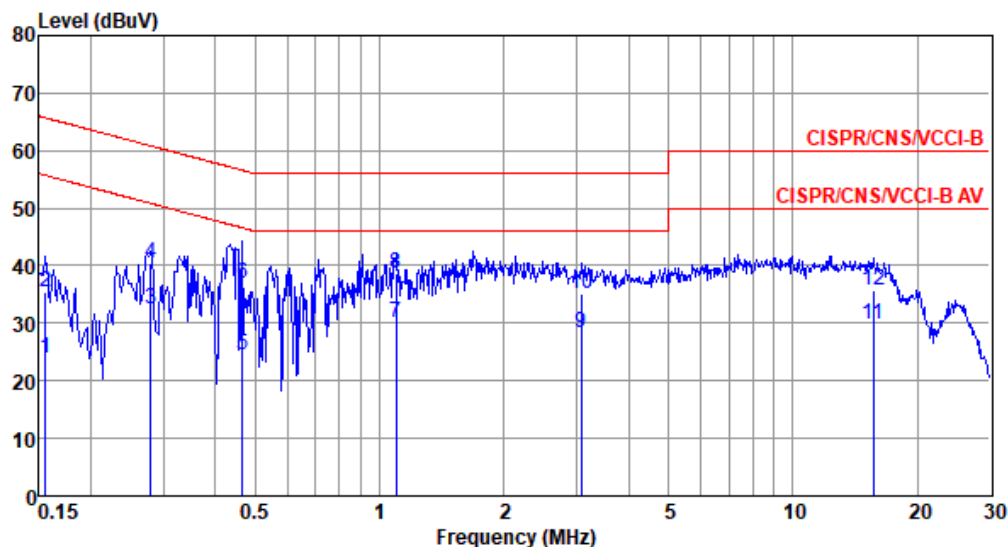
Configuration 1: Model: SDG-8733

Modulation Mode	11b	Test Freq. (MHz)	2437
Power Phase	Line		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	
	MHz	dBuV	Line	Limit	Level	dB	loss	dB	Remark
1	0.156	23.86	55.69	-31.83	13.94	9.63	0.08	0.21	Average
2	0.156	35.57	65.69	-30.12	25.65	9.63	0.08	0.21	QP
3	0.279	32.60	50.85	-18.25	22.62	9.62	0.07	0.29	Average
4	0.279	40.48	60.85	-20.37	30.50	9.62	0.07	0.29	QP
5	0.466	24.39	46.58	-22.19	14.35	9.62	0.08	0.34	Average
6	0.466	36.81	56.58	-19.77	26.77	9.62	0.08	0.34	QP
7*	1.094	30.02	46.00	-15.98	19.94	9.63	0.09	0.36	Average
8	1.094	38.72	56.00	-17.28	28.64	9.63	0.09	0.36	QP
9	3.074	28.26	46.00	-17.74	18.07	9.64	0.15	0.40	Average
10	3.074	35.21	56.00	-20.79	25.02	9.64	0.15	0.40	QP
11	15.635	29.94	50.00	-20.06	19.30	9.68	0.45	0.51	Average
12	15.635	35.72	60.00	-24.28	25.08	9.68	0.45	0.51	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).

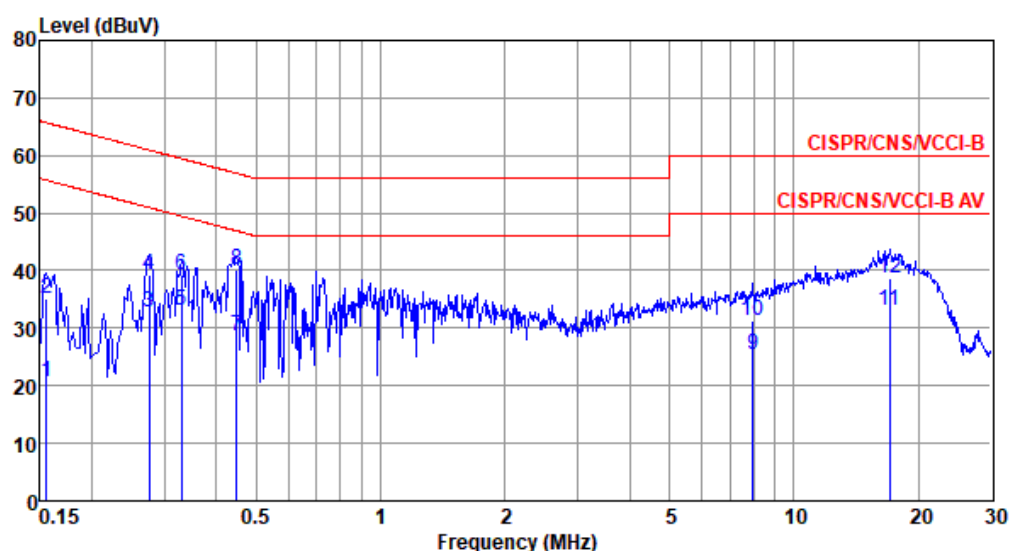


Modulation Mode	11b	Test Freq. (MHz)	2437
Power Phase	Neutral		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	
	MHz	dBuV	Line	Limit	Level		loss		Remark
			dBuV	dB	dBuV	dB	dB	dB	
1	0.156	20.75	55.69	-34.94	10.91	9.63	0.08	0.13	Average
2	0.156	35.00	65.69	-30.69	25.16	9.63	0.08	0.13	QP
3	0.276	32.83	50.94	-18.11	22.92	9.63	0.07	0.21	Average
4	0.276	39.29	60.94	-21.65	29.38	9.63	0.07	0.21	QP
5*	0.330	33.08	49.44	-16.36	23.16	9.62	0.07	0.23	Average
6	0.330	39.41	59.44	-20.03	29.49	9.62	0.07	0.23	QP
7	0.449	28.59	46.89	-18.30	18.63	9.62	0.08	0.26	Average
8	0.449	40.20	56.89	-16.69	30.24	9.62	0.08	0.26	QP
9	7.977	25.44	50.00	-24.56	15.01	9.70	0.31	0.42	Average
10	7.977	31.34	60.00	-28.66	20.91	9.70	0.31	0.42	QP
11	17.018	32.95	50.00	-17.05	22.17	9.78	0.47	0.53	Average
12	17.018	38.71	60.00	-21.29	27.93	9.78	0.47	0.53	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).



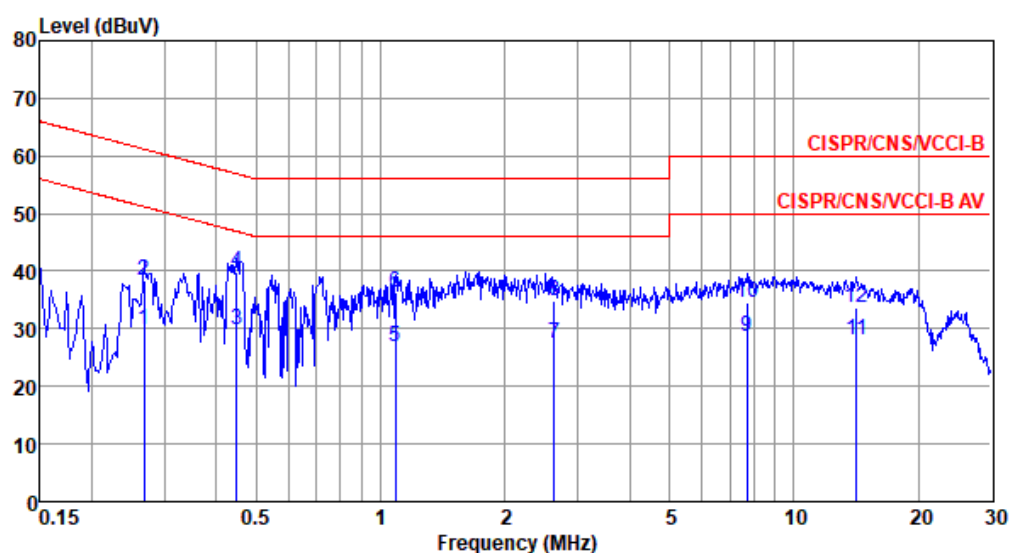
Configuration 2: Model: SDG-8734

Modulation Mode	11b	Test Freq. (MHz)	2437
Power Phase	Line		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.267	29.78	51.20	-21.42	19.81	9.62	0.07	0.28	Average
2	0.267	38.44	61.20	-22.76	28.47	9.62	0.07	0.28	QP
3*	0.449	29.96	46.89	-16.93	19.93	9.62	0.08	0.33	Average
4	0.449	39.72	56.89	-17.17	29.69	9.62	0.08	0.33	QP
5	1.088	26.96	46.00	-19.04	16.88	9.63	0.09	0.36	Average
6	1.088	36.38	56.00	-19.62	26.30	9.63	0.09	0.36	QP
7	2.636	27.53	46.00	-18.47	17.36	9.64	0.14	0.39	Average
8	2.636	34.83	56.00	-21.17	24.66	9.64	0.14	0.39	QP
9	7.687	28.65	50.00	-21.35	18.23	9.68	0.30	0.44	Average
10	7.687	34.43	60.00	-25.57	24.01	9.68	0.30	0.44	QP
11	14.213	28.13	50.00	-21.87	17.54	9.68	0.43	0.48	Average
12	14.213	33.66	60.00	-26.34	23.07	9.68	0.43	0.48	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).



Modulation Mode	11b	Test Freq. (MHz)	2437																																																																																																																																	
Power Phase	Neutral																																																																																																																																			
Test by : Joe Liao Temperature: 23°C Humidity: 63%																																																																																																																																				
Level (dBuV) Frequency (MHz) <table><tr><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>Factor dB</th><th>Cable loss dB</th><th>Aux dB</th><th>Remark</th></tr><tr><td>1</td><td>0.168</td><td>24.10</td><td>55.08</td><td>-30.98</td><td>14.26</td><td>9.63</td><td>0.07</td><td>0.14</td><td>Average</td></tr><tr><td>2</td><td>0.168</td><td>35.79</td><td>65.08</td><td>-29.29</td><td>25.95</td><td>9.63</td><td>0.07</td><td>0.14</td><td>QP</td></tr><tr><td>3</td><td>0.459</td><td>23.04</td><td>46.71</td><td>-23.67</td><td>13.08</td><td>9.62</td><td>0.08</td><td>0.26</td><td>Average</td></tr><tr><td>4*</td><td>0.459</td><td>37.98</td><td>56.71</td><td>-18.73</td><td>28.02</td><td>9.62</td><td>0.08</td><td>0.26</td><td>QP</td></tr><tr><td>5</td><td>0.923</td><td>23.22</td><td>46.00</td><td>-22.78</td><td>13.20</td><td>9.63</td><td>0.09</td><td>0.30</td><td>Average</td></tr><tr><td>6</td><td>0.923</td><td>31.81</td><td>56.00</td><td>-24.19</td><td>21.79</td><td>9.63</td><td>0.09</td><td>0.30</td><td>QP</td></tr><tr><td>7</td><td>1.949</td><td>16.86</td><td>46.00</td><td>-29.14</td><td>6.77</td><td>9.64</td><td>0.11</td><td>0.34</td><td>Average</td></tr><tr><td>8</td><td>1.949</td><td>25.57</td><td>56.00</td><td>-30.43</td><td>15.48</td><td>9.64</td><td>0.11</td><td>0.34</td><td>QP</td></tr><tr><td>9</td><td>9.204</td><td>24.00</td><td>50.00</td><td>-26.00</td><td>13.55</td><td>9.70</td><td>0.33</td><td>0.42</td><td>Average</td></tr><tr><td>10</td><td>9.204</td><td>29.95</td><td>60.00</td><td>-30.05</td><td>19.50</td><td>9.70</td><td>0.33</td><td>0.42</td><td>QP</td></tr><tr><td>11</td><td>17.661</td><td>29.80</td><td>50.00</td><td>-20.20</td><td>18.99</td><td>9.78</td><td>0.48</td><td>0.55</td><td>Average</td></tr><tr><td>12</td><td>17.661</td><td>35.45</td><td>60.00</td><td>-24.55</td><td>24.64</td><td>9.78</td><td>0.48</td><td>0.55</td><td>QP</td></tr></table>				Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.168	24.10	55.08	-30.98	14.26	9.63	0.07	0.14	Average	2	0.168	35.79	65.08	-29.29	25.95	9.63	0.07	0.14	QP	3	0.459	23.04	46.71	-23.67	13.08	9.62	0.08	0.26	Average	4*	0.459	37.98	56.71	-18.73	28.02	9.62	0.08	0.26	QP	5	0.923	23.22	46.00	-22.78	13.20	9.63	0.09	0.30	Average	6	0.923	31.81	56.00	-24.19	21.79	9.63	0.09	0.30	QP	7	1.949	16.86	46.00	-29.14	6.77	9.64	0.11	0.34	Average	8	1.949	25.57	56.00	-30.43	15.48	9.64	0.11	0.34	QP	9	9.204	24.00	50.00	-26.00	13.55	9.70	0.33	0.42	Average	10	9.204	29.95	60.00	-30.05	19.50	9.70	0.33	0.42	QP	11	17.661	29.80	50.00	-20.20	18.99	9.78	0.48	0.55	Average	12	17.661	35.45	60.00	-24.55	24.64	9.78	0.48	0.55	QP
Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark																																																																																																																												
1	0.168	24.10	55.08	-30.98	14.26	9.63	0.07	0.14	Average																																																																																																																											
2	0.168	35.79	65.08	-29.29	25.95	9.63	0.07	0.14	QP																																																																																																																											
3	0.459	23.04	46.71	-23.67	13.08	9.62	0.08	0.26	Average																																																																																																																											
4*	0.459	37.98	56.71	-18.73	28.02	9.62	0.08	0.26	QP																																																																																																																											
5	0.923	23.22	46.00	-22.78	13.20	9.63	0.09	0.30	Average																																																																																																																											
6	0.923	31.81	56.00	-24.19	21.79	9.63	0.09	0.30	QP																																																																																																																											
7	1.949	16.86	46.00	-29.14	6.77	9.64	0.11	0.34	Average																																																																																																																											
8	1.949	25.57	56.00	-30.43	15.48	9.64	0.11	0.34	QP																																																																																																																											
9	9.204	24.00	50.00	-26.00	13.55	9.70	0.33	0.42	Average																																																																																																																											
10	9.204	29.95	60.00	-30.05	19.50	9.70	0.33	0.42	QP																																																																																																																											
11	17.661	29.80	50.00	-20.20	18.99	9.78	0.48	0.55	Average																																																																																																																											
12	17.661	35.45	60.00	-24.55	24.64	9.78	0.48	0.55	QP																																																																																																																											
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).																																																																																																																																				

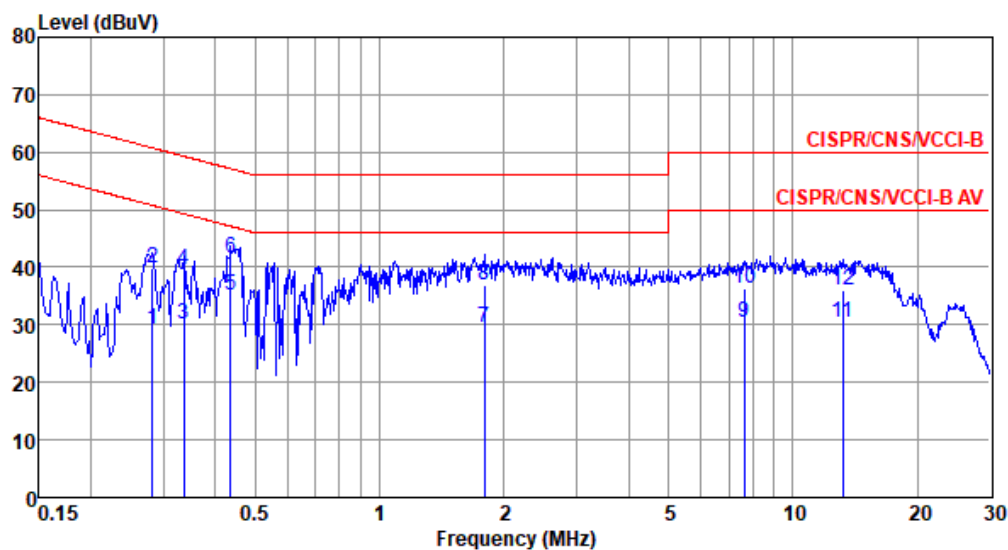
**Beamforming mode****Configuration 1: Model: SDG-8733**

Modulation Mode	be EHT20	Test Freq. (MHz)	2437
Power Phase	Line		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.282	29.25	50.76	-21.51	19.27	9.62	0.07	0.29	Average
2	0.282	39.90	60.76	-20.86	29.92	9.62	0.07	0.29	QP
3	0.336	30.08	49.31	-19.23	20.08	9.62	0.07	0.31	Average
4	0.336	39.58	59.31	-19.73	29.58	9.62	0.07	0.31	QP
5*	0.435	35.09	47.15	-12.06	25.06	9.62	0.08	0.33	Average
6	0.435	41.60	57.15	-15.55	31.57	9.62	0.08	0.33	QP
7	1.790	29.45	46.00	-16.55	19.33	9.63	0.11	0.38	Average
8	1.790	36.92	56.00	-19.08	26.80	9.63	0.11	0.38	QP
9	7.646	30.47	50.00	-19.53	20.05	9.68	0.30	0.44	Average
10	7.646	36.36	60.00	-23.64	25.94	9.68	0.30	0.44	QP
11	13.197	30.47	50.00	-19.53	19.89	9.69	0.41	0.48	Average
12	13.197	35.95	60.00	-24.05	25.37	9.69	0.41	0.48	QP

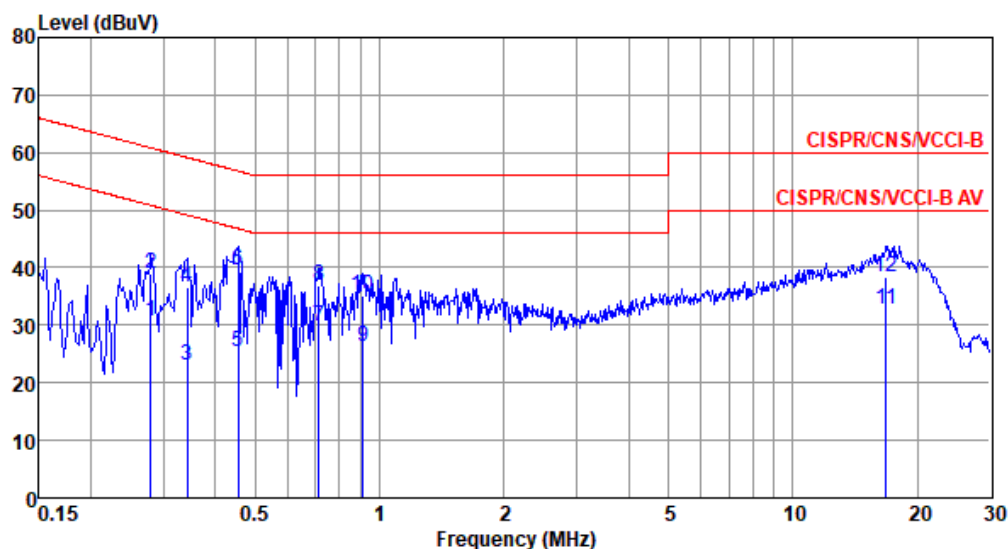
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Modulation Mode	be EHT20	Test Freq. (MHz)	2437
Power Phase	Neutral		

Test by : Joe Liao Temperature: 23°C Humidity: 63%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.279	30.75	50.85	-20.10	20.84	9.63	0.07	0.21	Average
2	0.279	38.90	60.85	-21.95	28.99	9.63	0.07	0.21	QP
3	0.343	22.89	49.13	-26.24	12.96	9.62	0.08	0.23	Average
4	0.343	36.63	59.13	-22.50	26.70	9.62	0.08	0.23	QP
5	0.454	25.43	46.80	-21.37	15.47	9.62	0.08	0.26	Average
6	0.454	39.61	56.80	-17.19	29.65	9.62	0.08	0.26	QP
7*	0.712	29.84	46.00	-16.16	19.84	9.63	0.09	0.28	Average
8	0.712	36.92	56.00	-19.08	26.92	9.63	0.09	0.28	QP
9	0.914	26.15	46.00	-19.85	16.13	9.63	0.09	0.30	Average
10	0.914	35.20	56.00	-20.80	25.18	9.63	0.09	0.30	QP
11	16.839	32.77	50.00	-17.23	21.99	9.78	0.47	0.53	Average
12	16.839	38.41	60.00	-21.59	27.63	9.78	0.47	0.53	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



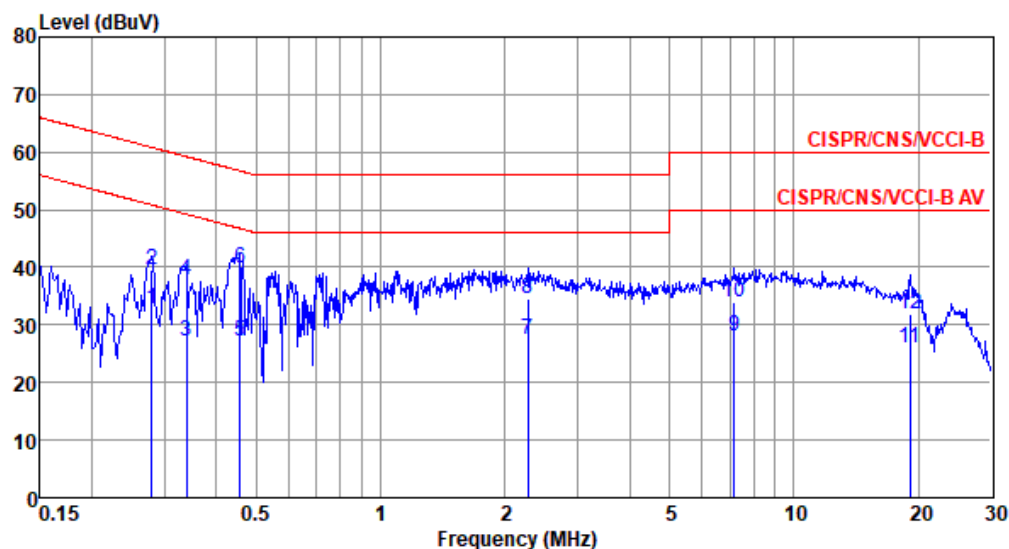
Configuration 2: Model: SDG-8734

Modulation Mode	be EHT20	Test Freq. (MHz)	2437
Power Phase	Line		

Test by : Joe Liao

Temperature: 23°C

Humidity: 63%



	Freq	Level	Limit	Over	Read	Factor	Cable	Aux	
	MHz	dBuV	Line	Limit	Level		loss		Remark
			dBuV	dB	dBuV	dB	dB	dB	
1	0.279	32.91	50.85	-17.94	22.93	9.62	0.07	0.29	Average
2	0.279	39.44	60.85	-21.41	29.46	9.62	0.07	0.29	QP
3	0.339	27.30	49.22	-21.92	17.29	9.62	0.08	0.31	Average
4	0.339	37.68	59.22	-21.54	27.67	9.62	0.08	0.31	QP
5	0.456	27.03	46.76	-19.73	17.00	9.62	0.08	0.33	Average
6*	0.456	39.89	56.76	-16.87	29.86	9.62	0.08	0.33	QP
7	2.273	27.59	46.00	-18.41	17.45	9.63	0.12	0.39	Average
8	2.273	34.53	56.00	-21.47	24.39	9.63	0.12	0.39	QP
9	7.175	28.00	50.00	-22.00	17.59	9.68	0.29	0.44	Average
10	7.175	33.84	60.00	-26.16	23.43	9.68	0.29	0.44	QP
11	19.122	26.03	50.00	-23.97	15.27	9.68	0.50	0.58	Average
12	19.122	31.79	60.00	-28.21	21.03	9.68	0.50	0.58	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).

2: Over Limit (dB) = Level (dBUV) - Limit Line (dBUV).



Modulation Mode	be EHT20	Test Freq. (MHz)	2437																																																																																																																																		
Power Phase	Neutral																																																																																																																																				
Test by : Joe Liao Temperature: 23°C Humidity: 63%																																																																																																																																					
Level (dBuV) Frequency (MHz) <table><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>Factor dB</th><th>Cable loss dB</th><th>Aux dB</th><th>Remark</th></tr><tr><td>1</td><td>0.150</td><td>17.69</td><td>56.00</td><td>-38.31</td><td>7.86</td><td>9.63</td><td>0.08</td><td>0.12</td><td>Average</td></tr><tr><td>2</td><td>0.150</td><td>35.37</td><td>66.00</td><td>-30.63</td><td>25.54</td><td>9.63</td><td>0.08</td><td>0.12</td><td>QP</td></tr><tr><td>3</td><td>0.270</td><td>30.52</td><td>51.12</td><td>-20.60</td><td>20.62</td><td>9.63</td><td>0.07</td><td>0.20</td><td>Average</td></tr><tr><td>4</td><td>0.270</td><td>37.52</td><td>61.12</td><td>-23.60</td><td>27.62</td><td>9.63</td><td>0.07</td><td>0.20</td><td>QP</td></tr><tr><td>5</td><td>0.454</td><td>26.02</td><td>46.80</td><td>-20.78</td><td>16.06</td><td>9.62</td><td>0.08</td><td>0.26</td><td>Average</td></tr><tr><td>6*</td><td>0.454</td><td>38.37</td><td>56.80</td><td>-18.43</td><td>28.41</td><td>9.62</td><td>0.08</td><td>0.26</td><td>QP</td></tr><tr><td>7</td><td>1.610</td><td>18.52</td><td>46.00</td><td>-27.48</td><td>8.45</td><td>9.64</td><td>0.10</td><td>0.33</td><td>Average</td></tr><tr><td>8</td><td>1.610</td><td>28.31</td><td>56.00</td><td>-27.69</td><td>18.24</td><td>9.64</td><td>0.10</td><td>0.33</td><td>QP</td></tr><tr><td>9</td><td>9.204</td><td>23.94</td><td>50.00</td><td>-26.06</td><td>13.49</td><td>9.70</td><td>0.33</td><td>0.42</td><td>Average</td></tr><tr><td>10</td><td>9.204</td><td>29.68</td><td>60.00</td><td>-30.32</td><td>19.23</td><td>9.70</td><td>0.33</td><td>0.42</td><td>QP</td></tr><tr><td>11</td><td>19.740</td><td>31.44</td><td>50.00</td><td>-18.56</td><td>20.55</td><td>9.80</td><td>0.51</td><td>0.58</td><td>Average</td></tr><tr><td>12</td><td>19.740</td><td>36.89</td><td>60.00</td><td>-23.11</td><td>26.00</td><td>9.80</td><td>0.51</td><td>0.58</td><td>QP</td></tr></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.150	17.69	56.00	-38.31	7.86	9.63	0.08	0.12	Average	2	0.150	35.37	66.00	-30.63	25.54	9.63	0.08	0.12	QP	3	0.270	30.52	51.12	-20.60	20.62	9.63	0.07	0.20	Average	4	0.270	37.52	61.12	-23.60	27.62	9.63	0.07	0.20	QP	5	0.454	26.02	46.80	-20.78	16.06	9.62	0.08	0.26	Average	6*	0.454	38.37	56.80	-18.43	28.41	9.62	0.08	0.26	QP	7	1.610	18.52	46.00	-27.48	8.45	9.64	0.10	0.33	Average	8	1.610	28.31	56.00	-27.69	18.24	9.64	0.10	0.33	QP	9	9.204	23.94	50.00	-26.06	13.49	9.70	0.33	0.42	Average	10	9.204	29.68	60.00	-30.32	19.23	9.70	0.33	0.42	QP	11	19.740	31.44	50.00	-18.56	20.55	9.80	0.51	0.58	Average	12	19.740	36.89	60.00	-23.11	26.00	9.80	0.51	0.58	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark																																																																																																																												
1	0.150	17.69	56.00	-38.31	7.86	9.63	0.08	0.12	Average																																																																																																																												
2	0.150	35.37	66.00	-30.63	25.54	9.63	0.08	0.12	QP																																																																																																																												
3	0.270	30.52	51.12	-20.60	20.62	9.63	0.07	0.20	Average																																																																																																																												
4	0.270	37.52	61.12	-23.60	27.62	9.63	0.07	0.20	QP																																																																																																																												
5	0.454	26.02	46.80	-20.78	16.06	9.62	0.08	0.26	Average																																																																																																																												
6*	0.454	38.37	56.80	-18.43	28.41	9.62	0.08	0.26	QP																																																																																																																												
7	1.610	18.52	46.00	-27.48	8.45	9.64	0.10	0.33	Average																																																																																																																												
8	1.610	28.31	56.00	-27.69	18.24	9.64	0.10	0.33	QP																																																																																																																												
9	9.204	23.94	50.00	-26.06	13.49	9.70	0.33	0.42	Average																																																																																																																												
10	9.204	29.68	60.00	-30.32	19.23	9.70	0.33	0.42	QP																																																																																																																												
11	19.740	31.44	50.00	-18.56	20.55	9.80	0.51	0.58	Average																																																																																																																												
12	19.740	36.89	60.00	-23.11	26.00	9.80	0.51	0.58	QP																																																																																																																												

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).