

FCC 47 CFR PART 15 SUBPART C ISED RSS-247 ISSUE 3

TEST REPORT

For

ISEFY

MODEL NUMBER: DR1003BC-C

PROJECT NUMBER: 4791532994.8

REPORT NUMBER: 4791532994.8-2

FCC ID: 2BF8I-DR1003BC-C

IC: 32415-DR1003BC-C

ISSUE DATE: Nov. 22, 2024

Prepared for

ISEFY TECHNOLOGY

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	11/22/2024	Initial Issue	



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1. APPLICANT INFORMATION

Applicant Information

Company Name: ISEFY TECHNOLOGY

Address: 26 Pine Street. Toronto, ON, Canada M9N 2Y8

Manufacturer Information

Company Name: ISEFY TECHNOLOGY

Address: 26 Pine Street. Toronto, ON, Canada M9N 2Y8

EUT Description

Product Name: ISEFY

Model Number: DR1003BC-C

Series Model Number: //
Model Difference: //

Sample Number: 7773810-S004
Data of Receipt Sample: Nov. 01, 2024

Test Date: Nov. 01, 2024~ Nov. 20, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR Part 15 Subpart C	PASS
ISED RSS-247 Issue 3	PASS
ISED RSS-GEN Issue 5	PASS



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Summary of Test Results					
Clause	Test Items	FCC&ISED Rules	Test Results		
1	6 dB Bandwidth and 99% Occupied Bandwidth	FCC 15.247 (a) (2) RSS-247 Clause 5.2 (a) RSS-Gen Clause 6.7	PASS		
2	Conducted Power	FCC 15.247 (b) (3) RSS-247 Clause 5.4 (d) RSS-Gen Clause 6.12	PASS		
3	Power Spectral Density	FCC 15.247 (e) RSS-247 Clause 5.2 (b)	PASS		
4	Conducted Band edge And Spurious emission	FCC 15.247 (d) RSS-247 Clause 5.5 RSS-GEN Clause 6.13	PASS		
5	Radiated Band edges and Spurious emission	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 6.13 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	PASS		
6	Conducted Emission Test for AC Power Port	FCC 15.207 RSS-GEN Clause 8.8	PASS		
7	Antenna Requirement	FCC 15.203 RSS-GEN Clause 6.8	PASS		

Note:

Kevin Shen

The measurement result for the sample received is <Pass> according to < ANSI C63.10-2013, FCC 47 CFR Part 2, FCC 47 CFR Part 15C, ISED RSS-247, ISED RSS-Gen > when < Simple Acceptance > decision rule is applied.

Prepared By:	Reviewed By:		
Tom Tang	Emily Wany		
Tom Tang	Emily Wang		
Authorized By:			
Keun. Shen			



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, FCC 47 CFR Part 2, FCC 47 CFR Part 15, ANSI C63.10-2013, ISED RSS-247 Issue 3 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China.

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.



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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.1 dB
DTS Bandwidth	1.9 %
Maximum Conducted Output Power	1.3 dB
Maximum Power Spectral Density Level	1.5 dB
Band-edge Compliance	1.9%
Unwanted Emissions in Non-restricted Freq Bands	9kHz-30MHz: ±0.90dB 30MHz-1GHz: ±1.5 dB 1GHz-12.75GHz: ±1.9dB 12.75GHz-26.5GHz: ±2.1dB
Radiation Emission test (include Fundamental emission) (9kHz-30MHz)	3.4dB
Radiation Emission test (include Fundamental emission) (30MHz-1GHz)	3.4dB
Radiation Emission test (1GHz to 26GHz) (include Fundamental emission)	3.5dB (1GHz-18GHz)
Note: This uncertainty represents an expanded unc	3.9dB (18GHz-26.5GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

Product Name:	ISEFY
Model No.:	DR1003BC-C
Operating Frequency:	IEEE 802.11B/G/N(HT20)/AX(HE20): 2412MHz to 2462MHz IEEE 802.11N(HT40)/AX(HE40): 2422MHz to 2452MHz
Type of Modulation:	IEEE 802.11B: DSSS (DBPSK, DQPSK, CCK) IEEE 802.11G: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11N (HT20 and HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11AX (HE20 and HE40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channels Step:	Channels with 5MHz step
Test Software of EUT:	SecureCRT (manufacturer declare)
Antenna Type:	Patch Antenna
Antenna Gain:	0.83 dBi
Antonna Gam.	Note: This data is provided by customer and our lab isn't responsible for this data.



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5.2. MAXIMUM OUTPUT POWER

Number of Transmit Chains	IEE Std. 802.11	Channel	Max AVG Conducted Power
(NTX)	1EE 3td. 802.11	Number	(dBm)
1	IEEE 802.11B	1-11[11]	13.52
1	IEEE 802.11G	1-11[11]	11.79
1	IEEE 802.11N HT20	1-11[11]	11.79
1	IEEE 802.11N HT40	3-9[7]	11.49
1	IEEE 802.11AX HE20	1-11[11]	11.69
1	IEEE 802.11AX HE40	3-9[7]	11.42

5.3. CHANNEL LIST

Channel List for 802.11B/G/N(20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452		

Channel List for 802.11N/AX (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447		



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5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel (MHz)
	LCH: CH01 2412
IEEE 802.11B	MCH: CH06 2437
	HCH: CH11 2462
	LCH: CH01 2412
IEEE 802.11G	MCH: CH06 2437
	HCH: CH11 2462
	LCH: CH01 2412
IEEE 802.11N HT20	MCH: CH06 2437
	HCH: CH11 2462
	LCH: CH03 2422
IEEE 802.11N HT40	MCH: CH06 2437
	HCH: CH09 2452
	LCH: CH01 2412
IEEE 802.11N AX20	MCH: CH06 2437
	HCH: CH11 2462
	LCH: CH03 2422
IEEE 802.11N AX40	MCH: CH06 2437
	HCH: CH09 2452

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Softv	vare			Secur	eCRT		
	Transmit			Test C	hannel		
Modulation Mode	Antenna	١	ICB: 20MH	Z	1	NCB: 40MH	Z
Wiode	Number	CH 1	CH 6	CH 11	CH3 CH6 CH9		CH 9
802.11B	1	default	default	default			
802.11G	1	default	default	default	/		
802.11N HT20	1	default	default	default			
802.11N HT40	1		/		default default default		
802.11AX HE20	1	default	default	default	/		
802.11AX HE40	1		/		default	default	default



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5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	2400-2483.5	Patch Antenna	0.83

Note: This data is provided by customer and our lab isn't responsible for this data.

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11B	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11G	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11N HT20	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11N HT40	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11AX HE20	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.
IEEE 802.11AX HE40	⊠1TX, 1RX	Antenna1 can be used as transmitting/receiving antenna independently.

5.7. THE WORSE CASE CONFIGURATIONS

For WIFI module, all the modes and data rates have been test, the worst-case data rates for every mode was recorded as below:

802.11B mode: 1 Mbps 802.11G mode: 6 Mbps 802.11N HT20 mode: MCS0 802.11N HT40 mode: MCS0 802.11AX HE mode: MCS0 802.11AX HE mode: MCS0

5.8. TEST ENVIRONMENT

Environment Parameter	Selected Values During Tests				
Relative Humidity:	55 ~ 65%				
Atmospheric Pressure:	1025Pa				
Temperature:	TN	23 ~ 28°C			
	VL	N/A			
Voltage:	VN	AC 120V			
	VH	N/A			

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature

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5.9. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Description
1	Laptop	ThinkPad	E590	/

I/O PORT

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	USB-TTL	USB	100cm Length	/

ACCESSORY

Item	Accessory	Brand Name	Model Name	Description
1	AC ADAPTOR	MNC	MAUS-1201001202	Input: 100-240V~ 50/60Hz 0.35A Output: 12V1.0A

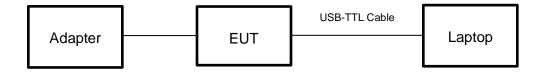


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TEST SETUP

The EUT can work in an engineer mode with a software through a laptop.

SETUP DIAGRAM FOR TESTS





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5.10. MEASURING INSTRUMENT AND SOFTWARE USED

	Conducted Emissions Test (Instrument)								
Used	Equipment	Manufacturer	Mod	del No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.	
\checkmark	EMI Test Receiver	R&S	Е	SR3	126700	2022-11-26	2023-11-25	2024-11-24	
$\overline{\checkmark}$	Two-Line V-Network	R&S	EN	IV216	126701	2022-11-26	2023-11-25	2024-11-24	
	Conducted Emissions Test (Software)								
Used	Desc	ription		Man	ufacturer	Name	Version		
V	Software for Condu	cted Emissions	Гest		R&S	EMC32	9.25.00		
	Radiated Emissions Test (Instrument)								
Used	Equipment	Manufacturer	Mod	del No.	Serial No.	Upper Last Cal.	Last Cal.	Next Cal.	
\checkmark	EMI test receiver	R&S	Е	SR7	222993	2023-04-08	2024-03-23	2025-03-22	
$\overline{\checkmark}$	EMI test receiver	R&S	ES	SR26	126703	2022-11-26	2023-11-25	2024-11-24	
$\overline{\checkmark}$	Spectrum Analyzer	R&S	FS'	V3044	222992	2023-04-08	2024-03-23	2025-03-22	
V	Receiver Antenna (9kHz-30MHz)	Schwarzbeck	FMZ	ß 1513	155456	2021-06-03	2024-05-27	2027-05-26	
V	Receiver Antenna (30MHz-1GHz)	Schwarzbeck	VUL	B 9168	171952	2021-07-05	2024-07-04	2027-07-03	
V	Receiver Antenna (1GHz-18GHz)	R&S	HF907		126705	2019-01-27	2022-02-28	2025-02-27	
V	Receiver Antenna (18GHz-26.5GHz)	Schwarzbeck	BBHA9170		126706	2019-02-29	2022-02-28	2025-02-27	
V	Pre-amplification (To 18GHz)	Tonscned	TAP01018050		224539	2023-10-10	2024-10-10	2025-10-09	
V	Pre-amplification (To 18GHz)	R&S	SCU-18D		134667	2022-11-26	2023-11-25	2024-11-24	
V	Pre-amplification (To 26.5GHz)	R&S	SCU-26D		135391	2022-11-26	2023-11-25	2024-11-24	
V	Band Reject Filter	Wainwright	2375 2485 4	CGV12- 5-2400- 5-2510- 0SS	1	2022-12-19	2023-12-18	2024-12-17	
V	High Pass Filter	COM-MW		3-3-18G- 01	2	2022-12-19	2023-12-18	2024-12-17	
		Radi	iated	Emissio	ns Test (Soft	tware)			
Used	Desc	ription		Man	ufacturer	Name	Version		
V	Software for Radia	ted Emissions Te	est	To	nscend	JS32-RE	5.0.0.2		
		A	ntenn	a Port Te	est (Instrume	ent)			
Used	Equipment	Manufacturer	Model No.		Serial No.	Upper Last Cal.	Last Cal.	Next Cal.	
V	Spectrum Analyzer	Keysight	N9010B		155368	2023-04-08	2024-03-23	2025-03-22	
V	Power Meter	MWT		00-RFCB	221694	2023-04-08	2024-03-23	2025-03-22	
$\overline{\checkmark}$	Power Meter	Anritsu	MA2	24406A	12896	2023-04-08	2024-03-23	2025-03-22	
$\overline{\checkmark}$	Attenuator	PASTERNACK	PE	7087-6	1624	/	2024-11-04	2025-11-03	
		-	Anteni	na Port 1	est (Softwa	re)			
Used	Desc	ription		Man	ufacturer	Name	Version		
V	Software for Ar	ntenna Port Test		To	nscend	JS1120-3 Test System	V3.2.22		



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6. MEASUREMENT METHODS

No.	Test Item	KDB Name	Section
1	6 dB Bandwidth and 99% Occupied Bandwidth	KDB 558074 D01 15.247 Meas Guidance v05r02	8.2
2	Output Power	KDB 558074 D01 15.247 Meas Guidance v05r02	8.3.2.3 (11.9.2.3.1 Method AVGPM of ANSI C63.10)
3	Power Spectral Density	KDB 558074 D01 15.247 Meas Guidance v05r02	8.4 (11.10.2 Method PKPSD of ANSI C63.10)
4	Out-of-band emissions in non- restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.5
5	Out-of-band emissions in restricted bands	KDB 558074 D01 15.247 Meas Guidance v05r02	8.6
6	Band-edge	KDB 558074 D01 15.247 Meas Guidance v05r02	8.7
7	Conducted Emission Test for AC Power Port	ANSI C63.10-2013	6.2



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7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

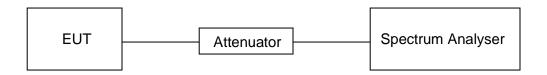
LIMITS

None; for reporting purposes only

PROCEDURE

FCC KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

TEST RESULTS TABLE

Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (db)	1/T Minimum VBW (kHz)	Final VBW (kHz)
11B	100	100	1	100%	0	0.01	0.01
11G	100	100	1	100%	0	0.01	0.01
802.11N HT20	100	100	1	100%	0	0.01	0.01
802.11N HT40	100	100	1	100%	0	0.01	0.01
802.11AX HE20	100	100	1	100%	0	0.01	0.01
802.11AX HE40	100	100	1	100%	0	0.01	0.01

Note: 1) Duty Cycle Correction Factor=10log(1/x).

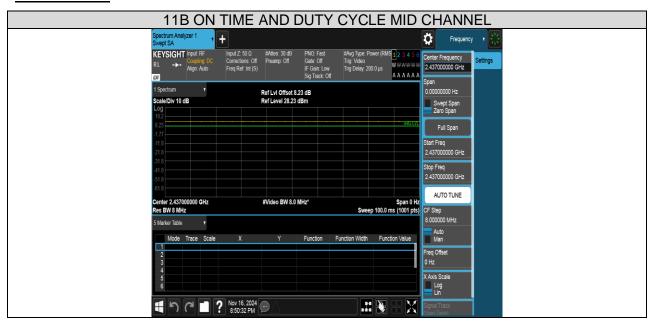
- 2) Where: x is Duty Cycle (Linear)
- 3) Where: T is On Time (transmit duration)
- 4) If the duty cycle is above 98%, the Final VBW is 10Hz.

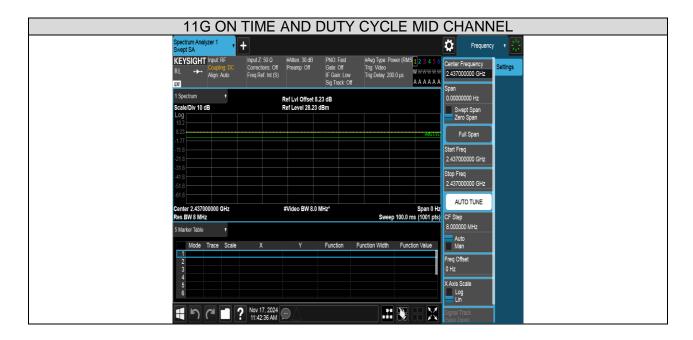
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TEST GRAPHS







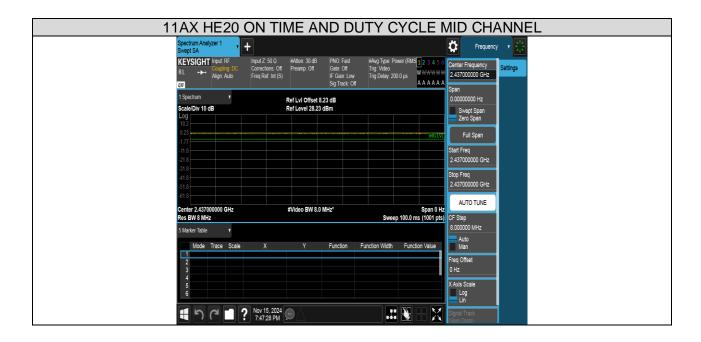
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7.2. 6 dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

FCC Part15 (15.247), Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)			
FCC 47 CFR 15.247(a)(2) ISED RSS-247 5.2 (a)	6dB Bandwidth	>= 500kHz	2400-2483.5			
ISED RSS-Gen Clause 6.7	99% Occupied Bandwidth	For reporting purposes only	2400-2483.5			

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

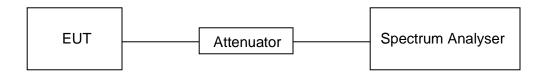
Connect the Lor to the spectrum analyser and use the following settings.			
Center Frequency	The centre frequency of the channel under test		
Detector	Peak		
IRRW	For 6 dB Bandwidth: 100 kHz For 99% Occupied Bandwidth: 1% to 5% of the occupied bandwidth		
IVBW	For 6 dB Bandwidth: ≥3 × RBW For 99% Occupied Bandwidth: ≥3 × RBW		
Trace	Max hold		
Sweep	Auto couple		

- a) Use the 99% power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



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TEST SETUP



TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

TEST RESULTS TABLE

Test Mode	Test Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Result
	LCH	9.0387	13.494	Pass
11B	MCH	8.5320	13.430	Pass
	HCH	8.5173	13.453	Pass
	LCH	16.5173	16.653	Pass
11G	MCH	16.5707	16.632	Pass
	HCH	16.5427	16.642	Pass
	LCH	17.7040	17.773	Pass
11N HT20	MCH	17.7080	17.765	Pass
	HCH	17.7330	17.765	Pass
	LCH	36.3280	36.208	Pass
11N HT40	MCH	36.3227	36.190	Pass
	HCH	36.3387	36.220	Pass
	LCH	18.8467	18.846	Pass
11AX HE20	MCH	18.8773	18.838	Pass
	HCH	18.8507	18.845	Pass
11AX HE40	LCH	37.8453	37.503	Pass
	MCH	37.5813	37.475	Pass
	HCH	37.9013	37.540	Pass

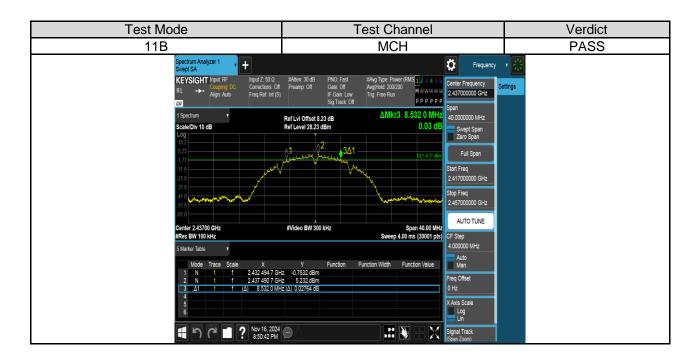


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TEST GRAPHS

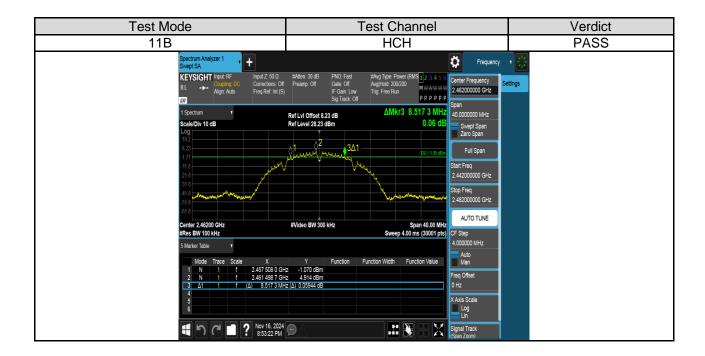
6dB Bandwdith







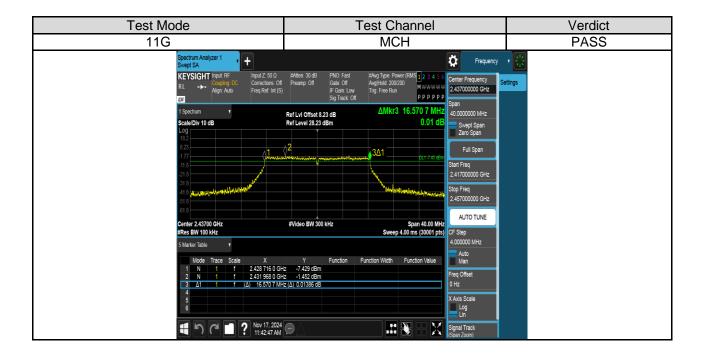
























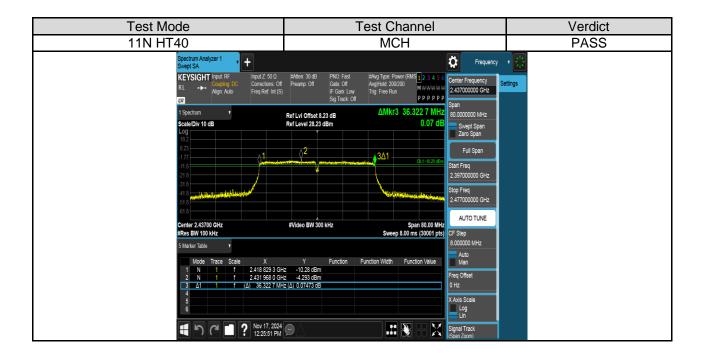










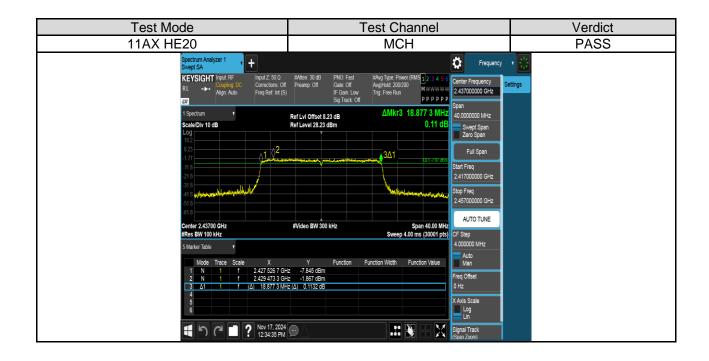






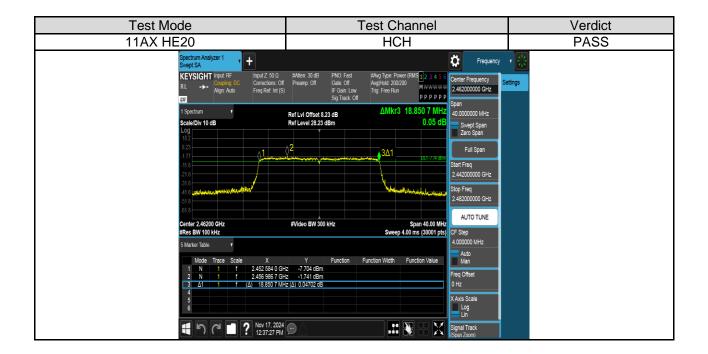


Test Mode Test Channel Verdict 11AX HE20 LCH PASS oectrum Analyzer wept SA Ü KEYSIGHT Input RF Center Frequency 2.412000000 GHz PPPPPP Ref Lvi Offset 8.15 dB Ref Level 28 15 dBm -0.01 dB Swept Span Zero Span 2.392000000 GHz Stop Freq 2.432000000 GHz AUTO TUNE enter 2.41200 GHz Res BW 100 kHz Span 40.00 MHz Sweep 4.00 ms (30001 pts) #Video BW 300 kHz Auto Man X Axis Scale Log Lin 1 5 6 7 Nov 17, 2024 12:31:45 PM .:: 🐧









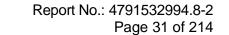






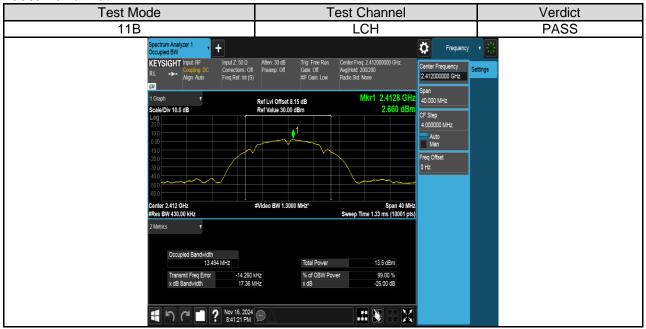








99% Bandwidth

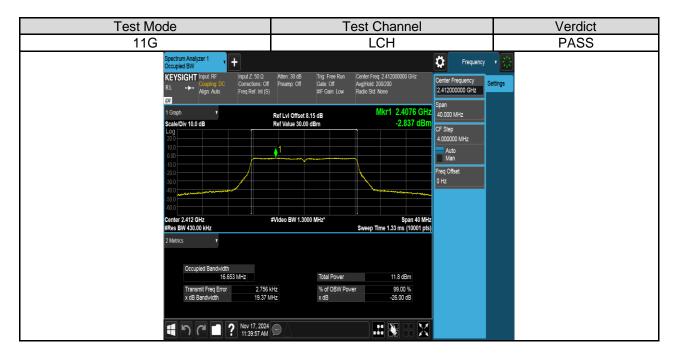






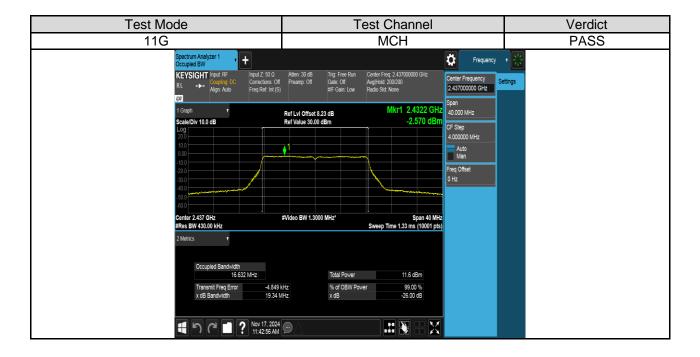


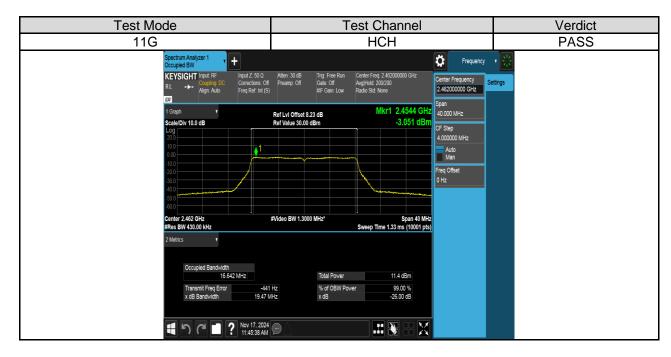






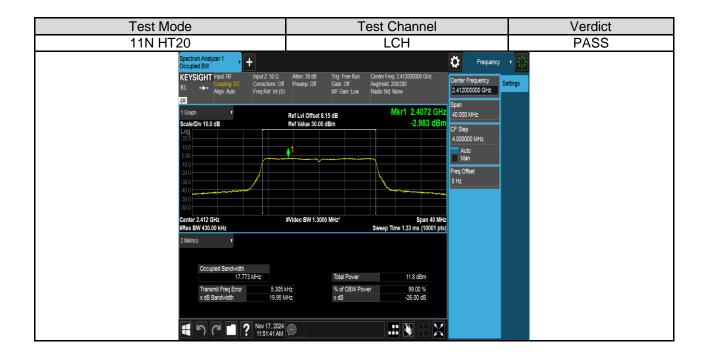


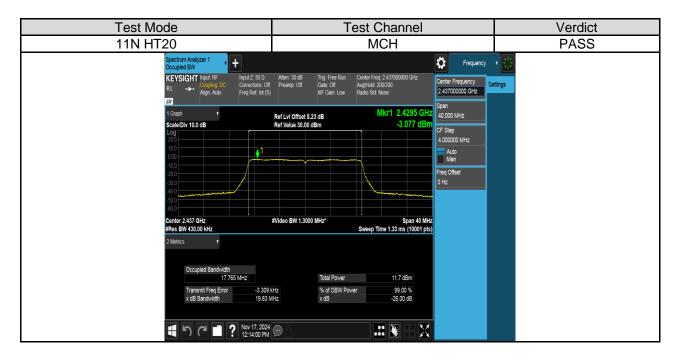






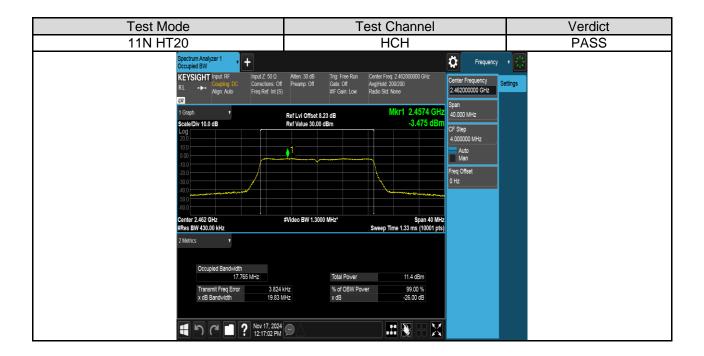








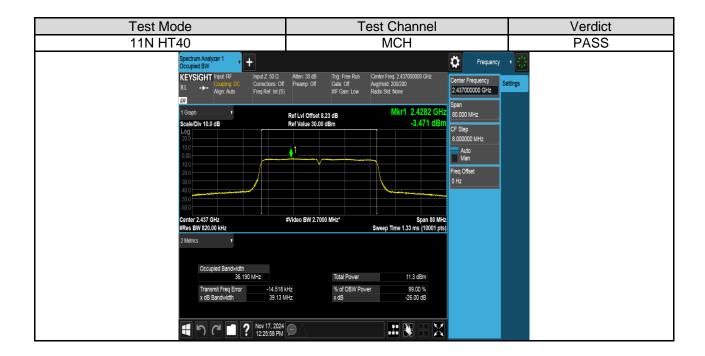


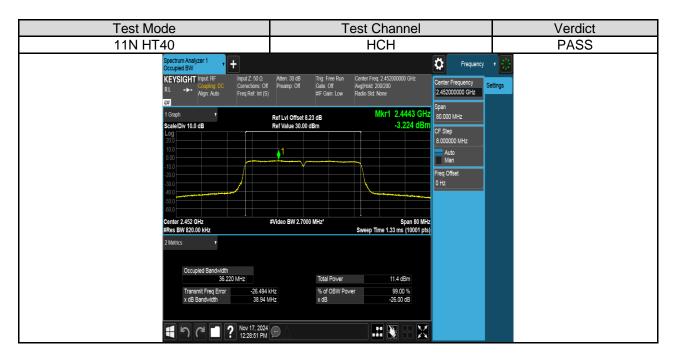






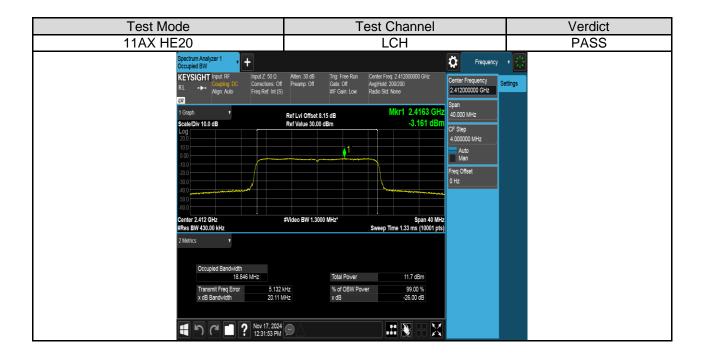


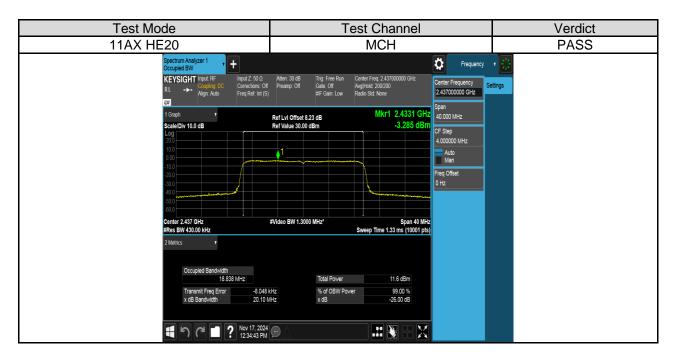


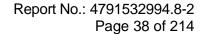




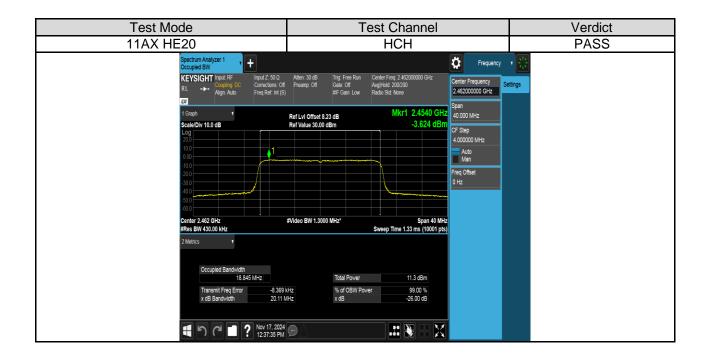


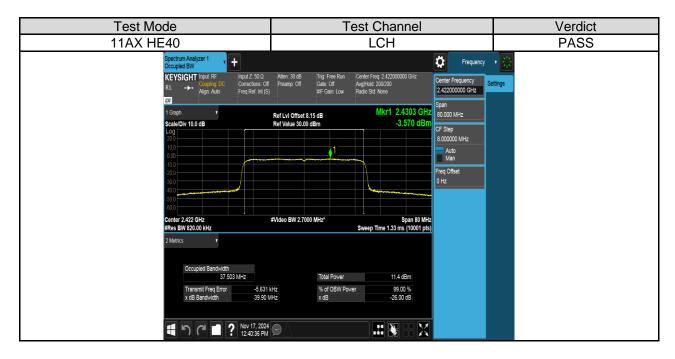






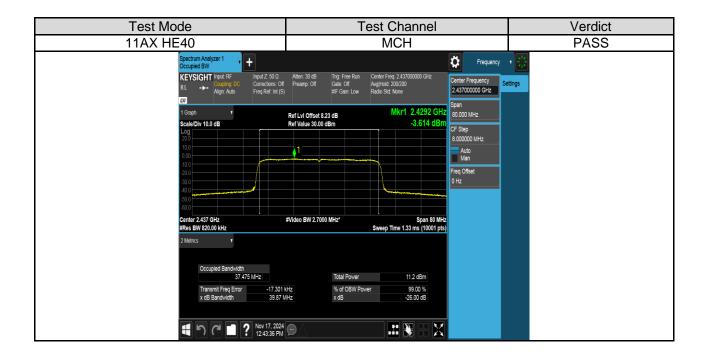


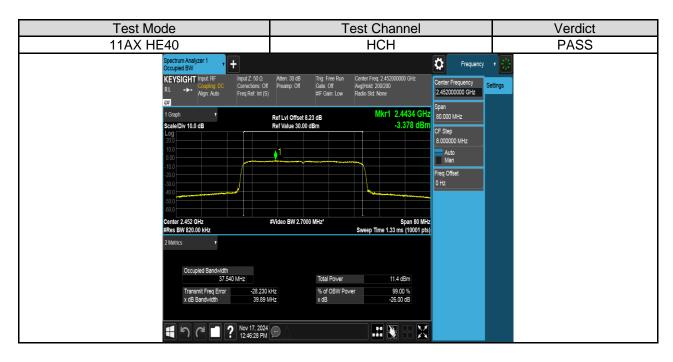














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7.3. CONDUCTED OUTPUT POWER

LIMITS

FCC Part15 (15.247), Subpart C				
Section Test Item Limit Frequency Range (MHz)				
FCC 15.247(b)(3) ISED RSS-247 5.4 (d) RSS-Gen Clause 6.12	Output Power	1 watt or 30dBm	2400-2483.5	

TEST PROCEDURE

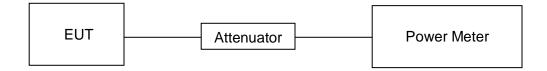
Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure the power of each channel.

AV Detector used for AV result.

TEST SETUP





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TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

TEST RESULTS TABLE

Test Mode	Test Channel	Measurement Output Power (AV)	10log(1/x) Factor	Maximum Conducted Output Power (AV)	Antenna Gain	Maximum E.I.R.P. (AV)	Limit
		dBm	dB	dBm	dBi	dBm	dBm
	LCH	13.52	0	13.52	0.83	14.35	30.00
11B	MCH	13.41	0	13.41	0.83	14.24	30.00
	HCH	13.12	0	13.12	0.83	13.95	30.00
	LCH	11.79	0	11.79	0.83	12.62	30.00
11G	MCH	11.65	0	11.65	0.83	12.48	30.00
	HCH	11.40	0	11.40	0.83	12.23	30.00
4451	LCH	11.79	0	11.79	0.83	12.62	30.00
11N HT20	MCH	11.67	0	11.67	0.83	12.5	30.00
	HCH	11.43	0	11.43	0.83	12.26	30.00
4481	LCH	11.49	0	11.49	0.83	12.32	30.00
11N HT40	MCH	11.33	0	11.33	0.83	12.16	30.00
	HCH	11.44	0	11.44	0.83	12.27	30.00
444	LCH	11.69	0	11.69	0.83	12.52	30.00
11AX HE20	MCH	11.57	0	11.57	0.83	12.4	30.00
	HCH	11.33	0	11.33	0.83	12.16	30.00
44.034	LCH	11.42	0	11.42	0.83	12.25	30.00
11AX HE40	MCH	11.27	0	11.27	0.83	12.1	30.00
	HCH	11.39	0	11.39	0.83	12.22	30.00



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7.4. POWER SPECTRAL DENSITY

LIMITS

FCC Part15 (15.247), Subpart C				
Section Test Item Limit Frequency Range (MHz)				
FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5	

TEST PROCEDURE

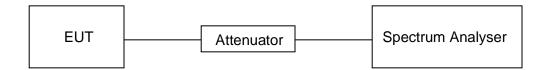
Refer to FCC KDB 558074, connect the UUT to the spectrum analyser and use the following settings:

octings.	
Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	3 kHz ≤ RBW ≤100 kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP





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TEST ENVIRONMENT

Temperature	22°C	Relative Humidity	56%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V

TEST RESULTS TABLE

Test Mode	Test Channel	Maximum Peak power spectral density (dBm/30kHz)	Result
	LCH	1.63	Pass
11B	MCH	0.51	Pass
	HCH	0.30	Pass
	LCH	-3.98	Pass
11G	MCH	-3.96	Pass
	HCH	-4.51	Pass
	LCH	-4.24	Pass
11N HT20	MCH	-4.39	Pass
	HCH	-4.69	Pass
	LCH	-7.15	Pass
11N HT40	MCH	-7.52	Pass
	HCH	-7.22	Pass
	LCH	-6.76	Pass
11AX HE20	MCH	-6.57	Pass
	HCH	-7.10	Pass
	LCH	-8.88	Pass
11AX HE40	MCH	-8.74	Pass
	HCH	-8.67	Pass





