

TEST REPORT

Report No.: BCTC2411135403-3E

Applicant: Acer India PVT Limited

Product Name: Tablet

Test Model: ACER TAB V9-22

Tested Date: 2024-11-15 to 2024-12-17

Issued Date: 2024-12-17

Shenzhen BCTC Testing Co., Ltd.



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FCC ID: 2A94K-V9-22

Product Name: Tablet

Trademark:

Model/Type reference: ACER TAB V9-22

Prepared For: Acer India PVT Limited

Address: Acer India PVT Limited, 6th Floor, Embassy Heights, No.13, Magrath Road,

Bangalore, 560025, India

Manufacturer: Acer India PVT Limited

Address: Acer India PVT Limited, 6th Floor, Embassy Heights, No.13, Magrath Road,

Bangalore, 560025, India

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,

Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2024-11-15

Sample tested Date: 2024-11-15 to 2024-12-17

Issue Date: 2024-12-17

Report No.: BCTC2411135403-3E

Test Standards: FCC Part15.247 ANSI C63.10-2013

Test Results: PASS

Remark: This is WIFI-2.4GHz band radio test report.

Tested by:

Brave 2emg

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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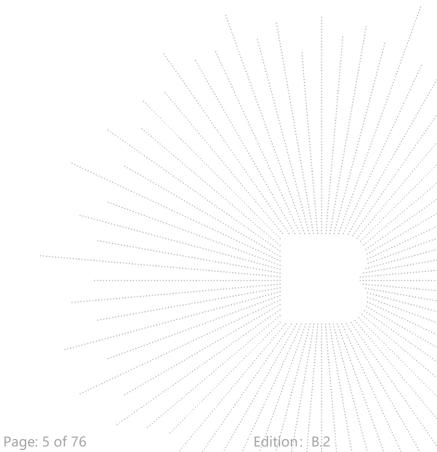
(Note: N/A means not applicable)





Version 1.

Report No.	Issue Date	Description	Approved
BCTC2411135403-3E	2024-12-17	Original	Valid



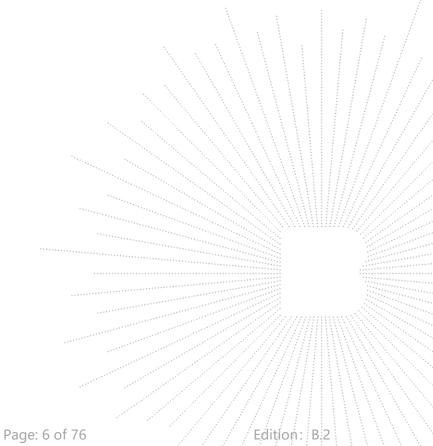
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Test Summary 2.

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted Emission	15.207	PASS
2	6dB Bandwidth	15.247 (a)(2)	PASS
3	Peak Output Power	15.247 (b)	PASS
4	Radiated Spurious Emission	15.247 (d)	PASS
5	Power Spectral Density	15.247 (e)	PASS
6	Restricted Band of Operation	15.205	PASS
7	Band Edge (Out of Band Emissions)	15.247 (d)	PASS
8	Antenna Requirement	15.203	PASS



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3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

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4. **Product Information And Test Setup**

Product Information 4.1

Model/Type Reference: ACER TAB V9-22

Model Differences: N/A N/A Hardware Version: N/A Software Version:

802.11b/g/n20MHz:2412~2462 MHz Operation Frequency: 802.11n40MHz:2422~2452 MHz

802.11b:11/5.5/2/1 Mbps

802.11g:54/48/36/24/18/12/9/6Mbps Bit Rate of Transmitter

802.11n Up to 150Mbps

OFDM/DSSS Type of Modulation:

802.11b/g/n20MHz:11 CH **Number Of Channel**

802.11n40MHz: 7 CH

1.96 dBi Remark:

☐ The antenna gain of the product comes from the antenna report provided by the Antenna Gain:

customer, and the test data is affected by the customer information.

The antenna gain of the product is provided by the customer, and the test data

is affected by the customer information.

DC 5V from adapter/DC 3.8V from battery Ratings:

MODEL: BSY01J3050200U U

Adapter Information: INPUT: 100-240V~ 50/60Hz, 0.3A

OUTPUT: 5.0V === 2.0A 10.0W

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

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4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Tablet	acer	ACER TAB V9-22	N/A	EUT
E-2	Adapter	N/A	BSY01J30502 00U U	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1M	DC cable unshielded

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

Channel List for 802.11b/g/n(20)						
Channel	Frequency (MHz)					
01	2412	02	2417	03	2422	
04	2427	05	2432	06	2437	
07	2442	08	2447	09	2452	
10	2457	11	2462			

Channel List for 802.11n(40)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
03	2422	04	2427	05	2432	
06	2437	07	2442	08	2447	
09	2452		**,			

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4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n20 CH1/ CH6/ CH11
Mode 4	802.11n40 CH3/ CH6/ CH9
Mode 5	Link

Note:

(1) The measurements are performed at all Bit Rate of Transmiter, the worst data was reported.

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	CMD			
Frequency	2412 MHz	2437 MHz	2462 MHz	
Parameters	DEF	DEF	DEF	
Frequency	2422MHz	2437MHz	2452MHz	
Parameters	DEF	DEF	DEF	

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5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850 A2LA certificate registration number is: CN1212

ISED Registered No.: 23583 ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test						
Equipment Manufacturer Model# Serial# Last Cal. Nex						
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025	
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025	
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\	
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025	

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025	
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025	
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025	
Radio frequency control box	MAIWEI	MW100-RFC B		The state of the s		
Software	MAIWEI	MTS 8310				

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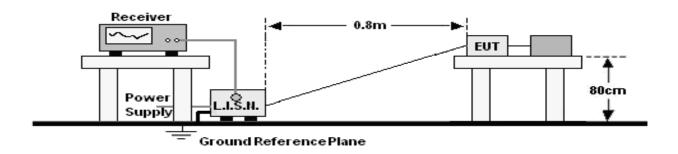
Radiated Emissions Test (966 Chamber02)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	SKET	966 Room	966	Oct. 31. 2024	Oct. 30. 2027
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRI7	100010	Oct. 31. 2024	Oct. 30. 2025
Amplifier	SKET	LNPA-30M01 G-30	SK2021082004	Oct. 31. 2024	Oct. 30. 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9168	1323	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G18 G-45dB	SK202104090 1	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 16, 2024	May 15, 2025
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\





6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

EDECLIENCY (MU-)	Limit	(dBuV)
FREQUENCY (MHz)	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB \ \ \
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz \ \ \ \ \ \

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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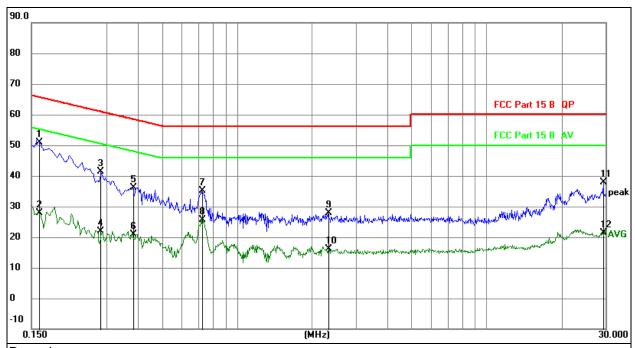
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 5	Test Voltage :	AC120V/60Hz



Remark:

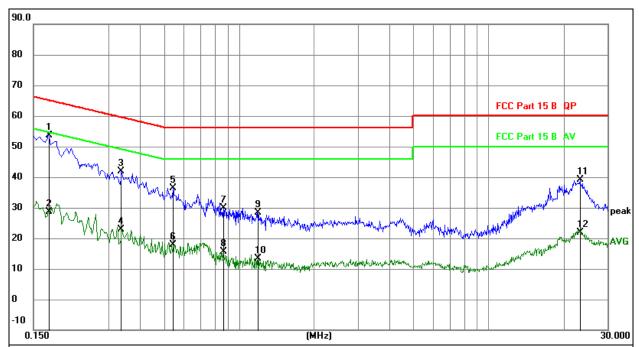
- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
- 3. Measurement=Reading Level+ Correct Factor
- 4. Over=Measurement-Limit

No. N	Иk. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBu∀	dBu∀	dB	Detector
1 *	* 0.1615	30.91	20.07	50.98	65.39	-14.41	QP
2	0.1615	7.89	20.07	27.96	55.39	-27.43	AVG
3	0.2847	21.25	20.07	41.32	60.68	-19.36	QP
4	0.2847	1.91	20.07	21.98	50.68	-28.70	AVG
5	0.3832	16.16	20.08	36.24	58.21	-21.97	QP
6	0.3832	0.78	20.08	20.86	48.21	-27.35	AVG
7	0.7236	14.99	20.09	35.08	56.00	-20.92	QP
8	0.7236	5.66	20.09	25.75	46.00	-20.25	AVG
9	2.3213	7.74	20.11	27.85	56.00	-28.15	QP ,
10	2.3213	-3.89	20.11	16.22	46.00	-29.78	AVG
11	29.3709	17.52	20.27	37.79	60.00	-22.21	QP
12	29.3709	1.09	20.27	21.36	50.00	-28.64	AVG

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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 5	Test Voltage:	AC120V/60Hz



Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement=Reading Level+ Correct Factor

- 4. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBu∨	dBu∀	dB	Detector
1	*	0.1722	33.68	20.07	53.75	64.85	-11.10	QP
2		0.1722	8.47	20.07	28.54	54.85	-26.31	AVG
3		0.3373	21.75	20.07	41.82	59.27	-17.45	QP
4		0.3373	2.89	20.07	22.96	49.27	-26.31	AVG
5		0.5435	16.20	20.08	36.28	56.00	-19.72	QP
6		0.5435	-2.15	20.08	17.93	46.00	-28.07	AVG
7		0.8664	9.91	20.09	30.00	56.00	-26.00	QP
8		0.8664	-4.50	20.09	15.59	46.00	-30.41	AVG
9		1.1844	8.32	20.09	28.41	56.00	-27.59	QP
10		1.1844	-6.61	20.09	13.48	46.00	-32.52	AVG
11		23.2633	18.77	20.31	39.08	60.00	-20.92	QP
12		23.2633	1.57	20.31	21.88	50.00	-28.12	AVG

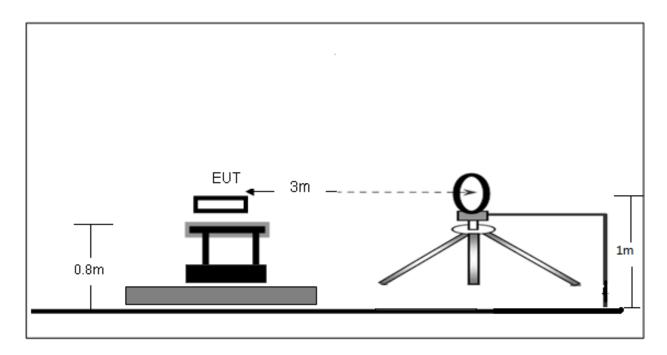
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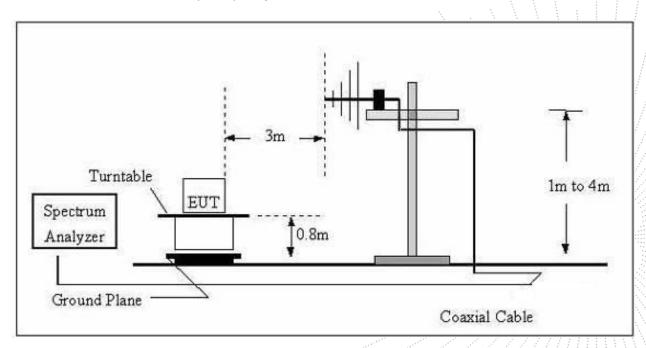
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



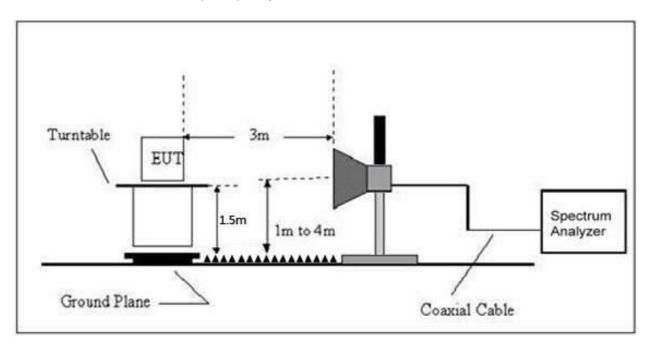
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MU-)	Limit (dBu)	//m) (at 3M)
FREQUENCY (MHz)	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

7.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

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Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 5	Polarization :	->

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
			2	PASS
			——————————————————————————————————————	PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

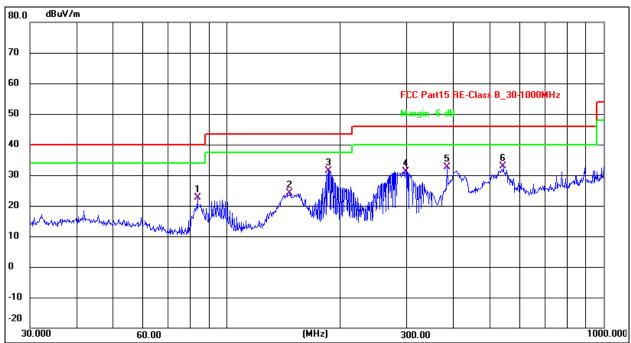
Limit line = specific limits(dBuv) + distance extrapolation factor.

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Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 5	Test Voltage:	AC120V/60Hz



Remark:

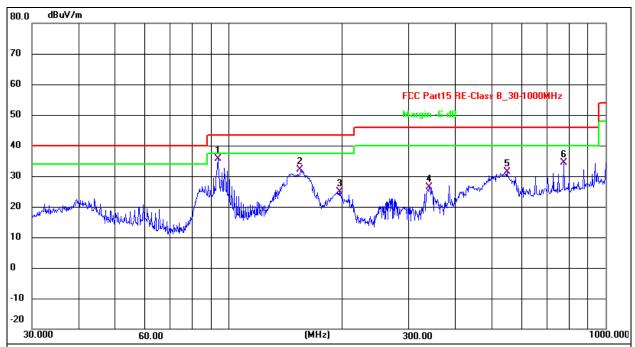
- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over= Measurement-Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	83.5222	38.55	-15.99	22.56	40.00	-17.44	QP
2	146.8877	35.18	-11.17	24.01	43.50	-19.49	QP
3 *	185.7882	44.84	-13.55	31.29	43.50	-12.21	QP
4	298.2681	41.88	-10.66	31.22	46.00	-14.78	QP
5	383.9318	40.69	-8.08	32.61	46.00	-13.39	QP
6	541.3725	36.98	-4.12	32.86	46.00	-13.14	QP

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Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 5	Test Voltage:	AC120V/60Hz



Remark:

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over= Measurement-Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	93.4402	51.13	-15.59	35.54	43.50	-7.96	QP
2	154.8204	43.43	-11.26	32.17	43.50	-11.33	QP
3	196.5098	39.14	-14.34	24.80	43.50	-18.70	QP
4	339.5887	35.87	-9.41	26.46	46.00	-19.54	QP
5	547.0976	35.27	-3.98	31.29	46.00	-14.71	QP
6	774.1584	33.93	0.40	34.33	46.00	-11.67	QP

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Between 1GHz – 25GHz **802.11b**

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector		
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	Low channel:2412MHz								
V	4824.00	64.32	-19.95	44.37	74.00	-29.63	PK		
V	4824.00	54.78	-19.95	34.83	54.00	-19.17	AV		
V	7236.00	69.43	-14.14	55.29	74.00	-18.71	PK		
V	7236.00	56.15	-14.14	42.01	54.00	-11.99	AV		
Н	4824.00	66.48	-19.95	46.53	74.00	-27.47	PK		
Н	4824.00	59.32	-19.95	39.37	54.00	-14.63	AV		
Н	7236.00	66.59	-14.14	52.45	74.00	-21.55	PK		
Ι	7236.00	58.42	-14.14	44.28	54.00	-9.72	AV		
			Middle chan	nel:2437MHz					
V	4874.00	69.69	-19.85	49.84	74.00	-24.16	PK		
V	4874.00	57.12	-19.85	37.27	54.00	-16.73	AV		
V	7311.00	64.08	-13.93	50.15	74.00	-23.85	PK		
V	7311.00	59.73	-13.93	45.80	54.00	-8.20	AV		
Н	4874.00	69.49	-19.85	49.64	74.00	-24.36	PK		
Н	4874.00	55.45	-19.85	35.60	54.00	-18.40	AV		
Н	7311.00	65.86	-13.93	51.93	74.00	-22.07	PK		
Н	7311.00	54.50	-13.93	40.57	54.00	-13.43	AV		
			High chann	el:2462MHz					
V	4924.00	64.99	-19.75	45.24	74.00	-28.76	PK		
V	4924.00	58.33	-19.75	38.58	54.00	-15.42	AV		
V	7386.00	67.60	-13.72	53.88	74.00	-20.12	PK		
V	7386.00	59.35	-13.72	45.63	54.00	-8.37	AV		
Н	4924.00	67.49	-19.75	47.74	74.00	-26.26	PK		
Н	4924.00	59.34	-19.75	39.59	54.00	-14.41	AV		
Н	7386.00	66.75	-13.72	53.03	74.00	-20.97	PK		
Н	7386.00	57.54	-13.72	43.82	54.00	-10.18	AV		

Remark

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

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^{1.}Measurement = Reading Level + Correct Factor,

^{2.}If peak below the average limit, the average emission was no test.

^{3.} In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

^{4.} The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11g

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector		
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	Low channel:2412MHz								
V	4824.00	64.82	-19.95	44.87	74.00	-29.13	PK		
V	4824.00	55.34	-19.95	35.39	54.00	-18.61	AV		
V	7236.00	64.93	-14.14	50.79	74.00	-23.21	PK		
V	7236.00	56.03	-14.14	41.89	54.00	-12.11	AV		
Н	4824.00	64.50	-19.95	44.55	74.00	-29.45	PK		
Н	4824.00	55.04	-19.95	35.09	54.00	-18.91	AV		
Н	7236.00	66.84	-14.14	52.70	74.00	-21.30	PK		
Н	7236.00	58.08	-14.14	43.94	54.00	-10.06	AV		
			Middle chan	nel:2437MHz					
V	4874.00	67.64	-19.85	47.79	74.00	-26.21	PK		
V	4874.00	55.07	-19.85	35.22	54.00	-18.78	AV		
V	7311.00	68.12	-13.93	54.19	74.00	-19.81	PK		
V	7311.00	59.90	-13.93	45.97	54.00	-8.03	AV		
Н	4874.00	68.51	-19.85	48.66	74.00	-25.34	PK		
Н	4874.00	56.97	-19.85	37.12	54.00	-16.88	AV		
Н	7311.00	66.09	-13.93	52.16	74.00	-21.84	PK		
Н	7311.00	59.90	-13.93	45.97	54.00	-8.03	AV		
			High chann	el:2462MHz			_		
V	4924.00	65.50	-19.75	45.75	74.00	-28.25	PK		
V	4924.00	57.00	-19.75	37.25	54.00	-16.75	AV		
V	7386.00	68.01	-13.72	54.29	74.00	-19.71	PK		
V	7386.00	57.43	-13.72	43.71	54.00	-10.29	AV		
Н	4924.00	67.39	-19.75	47.64	74.00	-26.36	PK		
Н	4924.00	55.96	-19.75	36.21	54.00	-17.79	AV		
Н	7386.00	68.03	-13.72	54.31	74.00	-19.69	PK		
Н	7386.00	58.40	-13.72	44.68	54.00	-9.32	AV		

Remark:

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

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^{1.}Measurement = Reading Level + Correct Factor,

^{2.}If peak below the average limit, the average emission was no test.

^{3.} In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

^{4.} The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n20

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			Low channe	el:2412MHz			
V	4824.00	69.20	-19.95	49.25	74.00	-24.75	PK
V	4824.00	57.96	-19.95	38.01	54.00	-15.99	AV
V	7236.00	65.64	-14.14	51.50	74.00	-22.50	PK
V	7236.00	55.13	-14.14	40.99	54.00	-13.01	AV
Н	4824.00	64.35	-19.95	44.40	74.00	-29.60	PK
Н	4824.00	57.22	-19.95	37.27	54.00	-16.73	AV
Н	7236.00	64.04	-14.14	49.90	74.00	-24.10	PK
Н	7236.00	57.60	-14.14	43.46	54.00	-10.54	AV
			Middle chani	nel:2437MHz			
V	4874.00	67.63	-19.85	47.78	74.00	-26.22	PK
V	4874.00	58.69	-19.85	38.84	54.00	-15.16	AV
V	7311.00	65.62	-13.93	51.69	74.00	-22.31	PK
V	7311.00	54.60	-13.93	40.67	54.00	-13.33	AV
Н	4874.00	66.25	-19.85	46.40	74.00	-27.60	PK
Н	4874.00	54.80	-19.85	34.95	54.00	-19.05	AV
Н	7311.00	68.54	-13.93	54.61	74.00	-19.39	PK
Н	7311.00	55.65	-13.93	41.72	54.00	-12.28	AV
			High chann	el:2462MHz			
V	4924.00	66.37	-19.75	46.62	74.00	-27.38	PK
V	4924.00	59.07	-19.75	39.32	54.00	-14.68	AV
V	7386.00	68.57	-13.72	54.85	74.00	-19.15	PK
V	7386.00	56.86	-13.72	43.14	54.00	-10.86	AV
Н	4924.00	68.13	-19.75	48.38	74.00	-25.62	PK
Н	4924.00	57.67	-19.75	37.92	54.00	-16.08	AV
Н	7386.00	65.27	-13.72	51.55	74.00	-22.45	PK
Н	7386.00	59.84	-13.72	46.12	54.00	-7.88	AV

Remark:

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

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^{1.}Measurement = Reading Level + Correct Factor,

^{2.}If peak below the average limit, the average emission was no test.

^{3.} In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

^{4.} The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n40

Polar	Fre- quency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
			Low channe	el:2422MHz			
V	4844.00	65.75	-19.91	45.84	74.00	-28.16	PK
V	4844.00	54.19	-19.91	34.28	54.00	-19.72	AV
V	7266.00	67.50	-14.06	53.44	74.00	-20.56	PK
V	7266.00	55.31	-14.06	41.25	54.00	-12.75	AV
Н	4844.00	65.27	-19.91	45.36	74.00	-28.64	PK
Н	4844.00	56.19	-19.91	36.28	54.00	-17.72	AV
Н	7266.00	67.56	-14.06	53.50	74.00	-20.50	PK
Н	7266.00	54.58	-14.06	40.52	54.00	-13.48	AV
			Middle chani	nel:2437MHz			
V	4874.00	67.98	-19.85	48.13	74.00	-25.87	PK
V	4874.00	54.73	-19.85	34.88	54.00	-19.12	AV
V	7311.00	66.32	-13.93	52.39	74.00	-21.61	PK
V	7311.00	57.93	-13.93	44.00	54.00	-10.00	AV
Н	4874.00	67.62	-19.85	47.77	74.00	-26.23	PK
Н	4874.00	57.92	-19.85	38.07	54.00	-15.93	AV
Н	7311.00	66.64	-13.93	52.71	74.00	-21.29	PK
Н	7311.00	58.05	-13.93	44.12	54.00	-9.88	AV
	_		High chann	el:2452MHz			
V	4904.00	69.35	-19.79	49.56	74.00	-24.44	PK
V	4904.00	54.96	-19.79	35.17	54.00	-18.83	AV
V	7356.00	66.15	-13.80	52.35	74.00	-21.65	PK
V	7356.00	59.44	-13.80	45.64	54.00	-8.36	AV
Н	4904.00	68.71	-19.79	48.92	74.00	-25.08	PK
Н	4904.00	56.76	-19.79	36.97	54.00	-17.03	AV
Н	7356.00	69.69	-13.80	55.89	74.00	-18.11	PK
Н	7356.00	55.23	-13.80	41.43	54.00	-12.57	AV

Remark:

Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

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^{1.}Measurement = Reading Level + Correct Factor,

^{2.}If peak below the average limit, the average emission was no test.

^{3.} In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

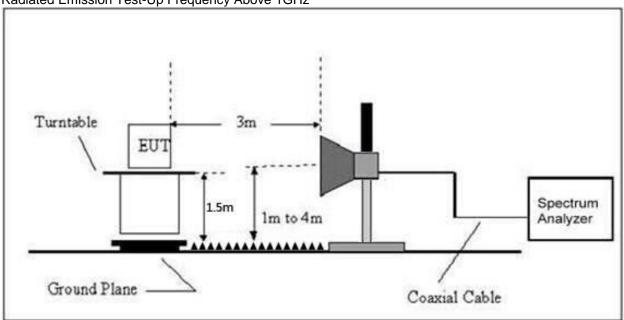
^{4.} The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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8.5 Test Result

	Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment (dBuV/m)		nits V/m)	Result	
		(MHz)	(dBuV/m)	(dB)	PK	PK	AV		
	Low Channel 2412MHz								
	Н	2390.00	72.14	-25.43	46.71	74.00	54.00	PASS	
	Н	2400.00	72.73	-25.40	47.33	74.00	54.00	PASS	
	V	2390.00	76.46	-25.43	51.03	74.00	54.00	PASS	
802.11b	V	2400.00	72.95	-25.40	47.55	74.00	54.00	PASS	
002.110	High Channel 2462MHz								
	Н	2483.50	72.26	-25.15	47.11	74.00	54.00	PASS	
	Н	2500.00	73.96	-25.10	48.86	74.00	54.00	PASS	
	V	2483.50	73.15	-25.15	48.00	74.00	54.00	PASS	
	V	2500.00	73.76	-25.10	48.66	74.00	54.00	PASS	
			L	ow Channe	l 2412MHz				
	Н	2390.00	70.28	-25.43	44.85	74.00	54.00	PASS	
	Н	2400.00	74.20	-25.40	48.80	74.00	54.00	PASS	
	V	2390.00	74.73	-25.43	49.30	74.00	54.00	PASS	
802.11g	V	2400.00	75.37	-25.40	49.97	74.00	54.00	PASS	
002.119			ŀ	ligh Channe	l 2462MHz				
	Н	2483.50	75.07	-25.15	49.92	74.00	54.00	PASS	
	Н	2500.00	73.81	-25.10	48.71	74.00	54.00	PASS	
	V	2483.50	73.83	-25.15	48.68	74.00	54.00	PASS	
	V	2500.00	69.70	-25.10	44.60	74.00	54.00	PASS	
Romark:									

Remark:

1.Measurement = Reading Level + Correct Factor,

Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier,

Over= Measurement – Limit

- 2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB
- 4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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	Polar (H/V)	Fre- quency	Reading Level	Correct Factor	Measure- ment (dBuV/m)		nits IV/m)	Result
		(MHz)	(dBuV/m)	(dB)	PK	PK	AV	
	Low Channel 2412MHz							
	Н	2390.00	72.78	-25.43	47.35	74.00	54.00	PASS
	Н	2400.00	72.39	-25.40	46.99	74.00	54.00	PASS
	V	2390.00	76.84	-25.43	51.41	74.00	54.00	PASS
802.11	V	2400.00	75.10	-25.40	49.70	74.00	54.00	PASS
n20		High Channel 2462MHz						
	Н	2483.50	73.54	-25.15	48.39	74.00	54.00	PASS
	Н	2500.00	73.71	-25.10	48.61	74.00	54.00	PASS
	V	2483.50	74.99	-25.15	49.84	74.00	54.00	PASS
	V	2500.00	74.16	-25.10	49.06	74.00	54.00	PASS
			L	ow Channe	l 2422MHz			
	Н	2390.00	69.50	-25.43	44.07	74.00	54.00	PASS
	Н	2400.00	70.73	-25.40	45.33	74.00	54.00	PASS
	V	2390.00	71.32	-25.43	45.89	74.00	54.00	PASS
802.11	V	2400.00	73.25	-25.40	47.85	74.00	54.00	PASS
n40	n40 High Channel 2452MHz							
	Н	2483.50	73.07	-25.15	47.92	74.00	54.00	PASS
	Н	2500.00	74.18	-25.10	49.08	74.00	54.00	PASS
	V	2483.50	74.22	-25.15	49.07	74.00	54.00	PASS
	V	2500.00	74.60	-25.10	49.50	74.00	54.00	PASS

Remark:

1.Measurement = Reading Level + Correct Factor, Correct Factor = Antenna Factor + Cable Loss - Pre-amplifier,

Over= Measurement - Limit

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

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^{2.} If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

^{4.} The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

9.2 Limit

FCC Part15 (15.247) , Subpart C						
Section Test Item Limit Frequency Range (MHz)						
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

9.3 Test Procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS bandwidth.
- 3. Set the RBW to: 3 kHz
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

9.4 EUT Operating Conditions

The EUT tested system was configured as the statements of	4.6 Unless otherwise a special operating
condition is specified in the follows during the testing.	
Note: Power Spectral Density(dBm)=Reading+Cable Loss	
. , ,	

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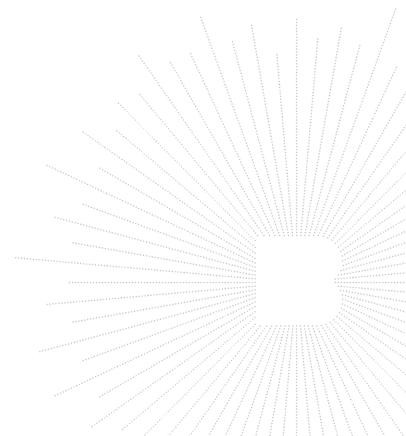


9.5 Test Result

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.8V

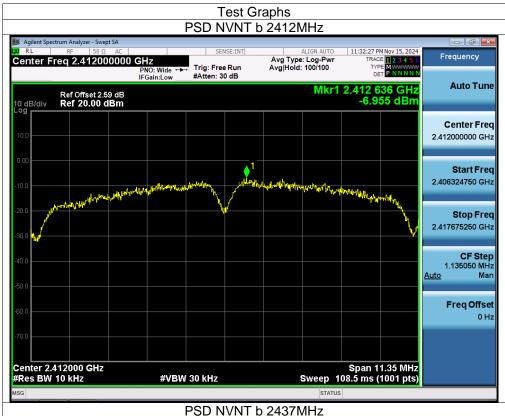
Test Mode	Frequency (MHz)	Power Spectral Density (dBm/10kHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
b	2412	-6.96	-12.19	8	PASS
b	2437	-7.43	-12.66	8	PASS
b	2462	-9.68	-14.91	8	PASS
g	2412	-9.63	-14.86	8	PASS
g	2437	-10.48	-15.71	8	PASS
g	2462	-10.82	-16.05	8	PASS
n20	2412	-11.59	-16.82	8	PASS
n20	2437	-11.92	-17.15	8	PASS
n20	2462	-11.87	-17.1	8	PASS
n40	2422	-14.81	-20.04	8	PASS
n40	2437	-15.6	-20.83	8	PASS
n40	2452	-16.53	-21.76	8	PASS

Note: Correction Factor = 10log(3KHz/RBW in measurement) =-5.23 Power Spectral Density (dBm/3kHz)= Power Spectral Density (dBm/10kHz)-5.23



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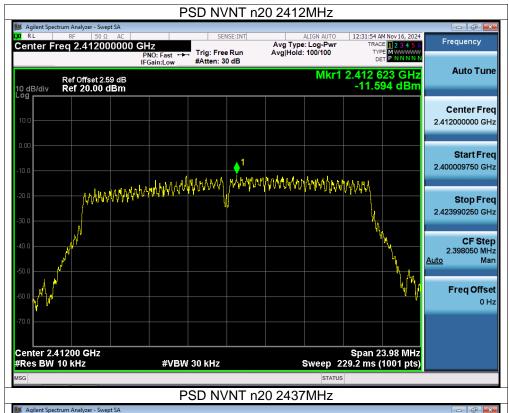






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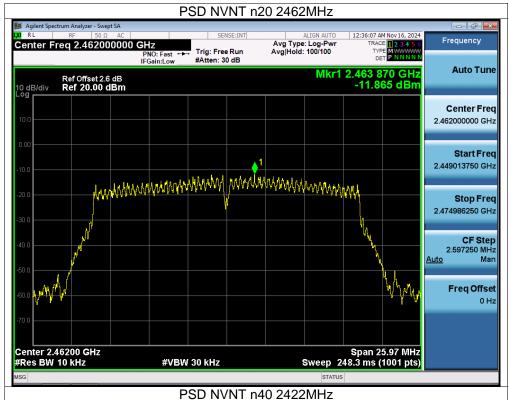






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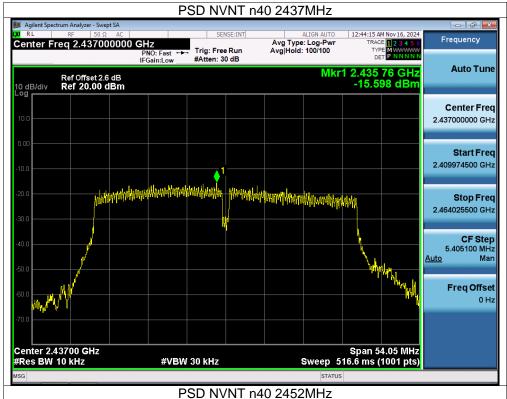






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10. Bandwidth Test

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

10.3 Test Procedure

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. 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.

10.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

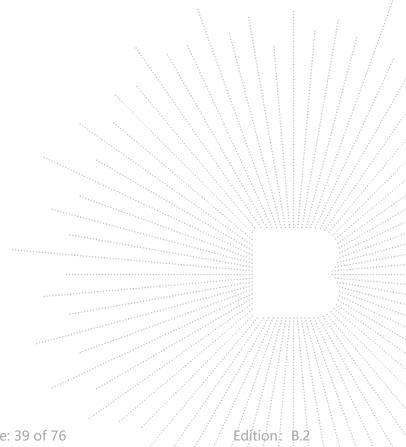
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10.5 Test Result

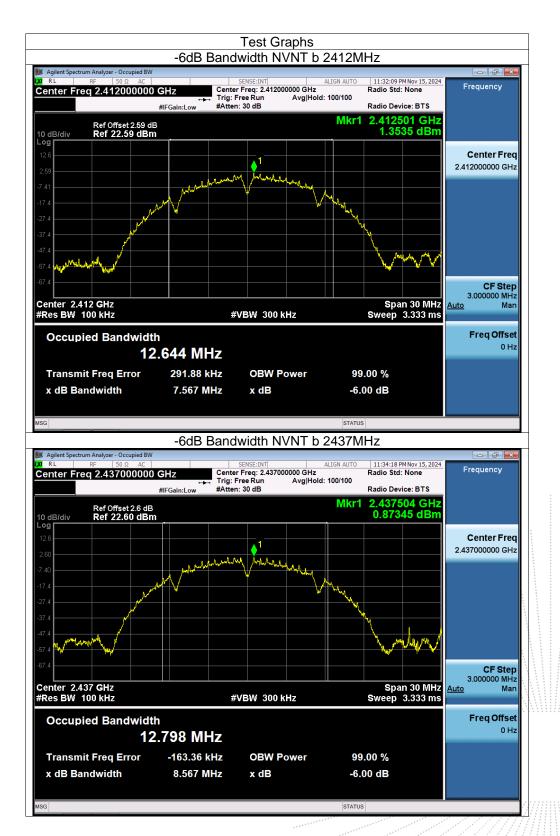
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.8V

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	7.567	0.5	Pass
b	2437	8.567	0.5	Pass
b	2462	7.565	0.5	Pass
g	2412	15.782	0.5	Pass
g	2437	16.397	0.5	Pass
g	2462	16.348	0.5	Pass
n20	2412	15.987	0.5	Pass
n20	2437	17.607	0.5	Pass
n20	2462	17.315	0.5	Pass
n40	2422	28.551	0.5	Pass
n40	2437	36.034	0.5	Pass
n40	2452	36.34	0.5	Pass



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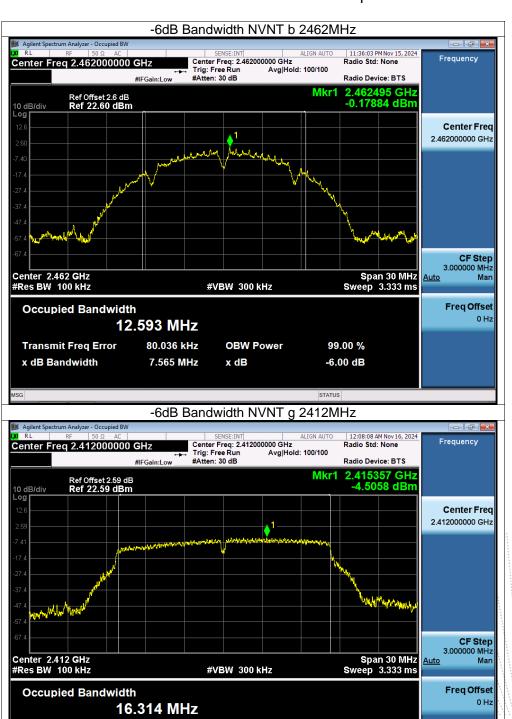
Transmit Freq Error

x dB Bandwidth

99.299 kHz

15.78 MHz

Report No.: BCTC2411135403-3E



OBW Power

x dB

99.00 %

-6.00 dB



Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

16.337 MHz

15.524 kHz

16.35 MHz

Report No.: BCTC2411135403-3E

Freq Offset



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OBW Power

x dB

99.00 %

-6.00 dB



Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

17.575 MHz

-37.454 kHz

17.61 MHz

Report No.: BCTC2411135403-3E

Freq Offset



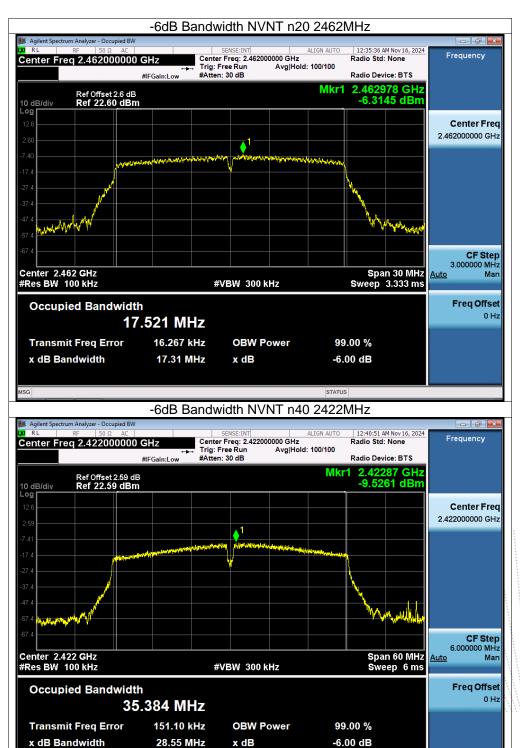
OBW Power

x dB

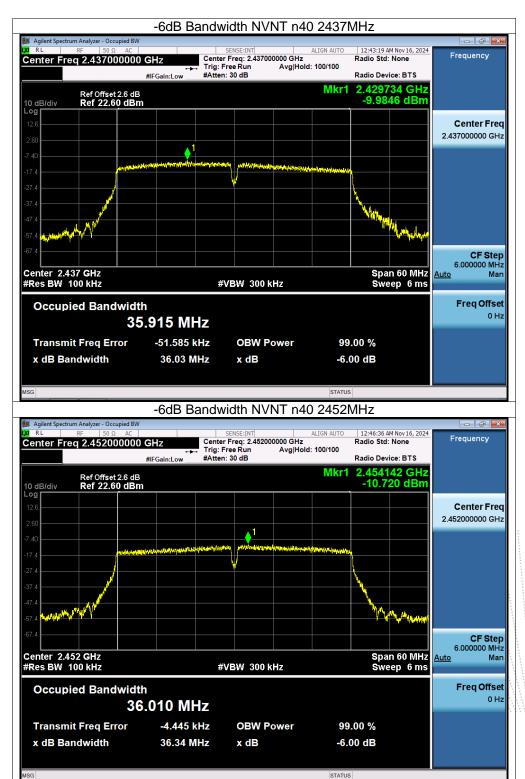
99.00 %

-6.00 dB









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11. Peak Output Power Test

11.1 Block Diagram Of Test Setup

EUT POWER METER

11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

11.3 Test Procedure

a. The EUT was directly connected to the Power meter

11.4 EUT Operating Conditions

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

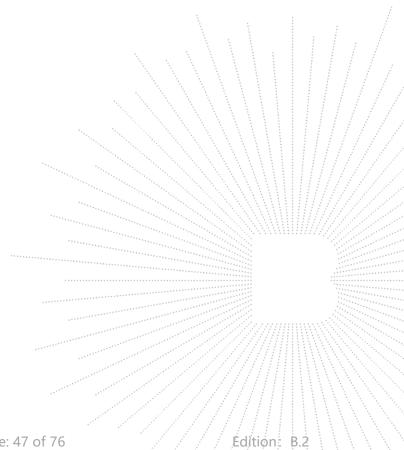
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11.5 Test Result

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.8V

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	11.94	30	Pass
b	2437	11.88	30	Pass
b	2462	9.95	30	Pass
g	2412	10.6	30	Pass
g	2437	11.18	30	Pass
g	2462	10.84	30	Pass
n20	2412	10.05	30	Pass
n20	2437	9.99	30	Pass
n20	2462	9.74	30	Pass
n40	2422	8.63	30	Pass
n40	2437	8.53	30	Pass
n40	2452	8.56	30	Pass



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12. 100 KHz Bandwidth Of Frequency Band Edge

12.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

12.2 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

12.3 Test Procedure

Using the following spectrum analyzer setting:

- a) Set the RBW = 100KHz.
- b) Set the VBW = 300KHz.
- c) Sweep time = auto couple.
- d) Detector function = peak.
- e) Trace mode = max hold.
- f) Allow trace to fully stabilize.

12.4 EUT Operating Conditions

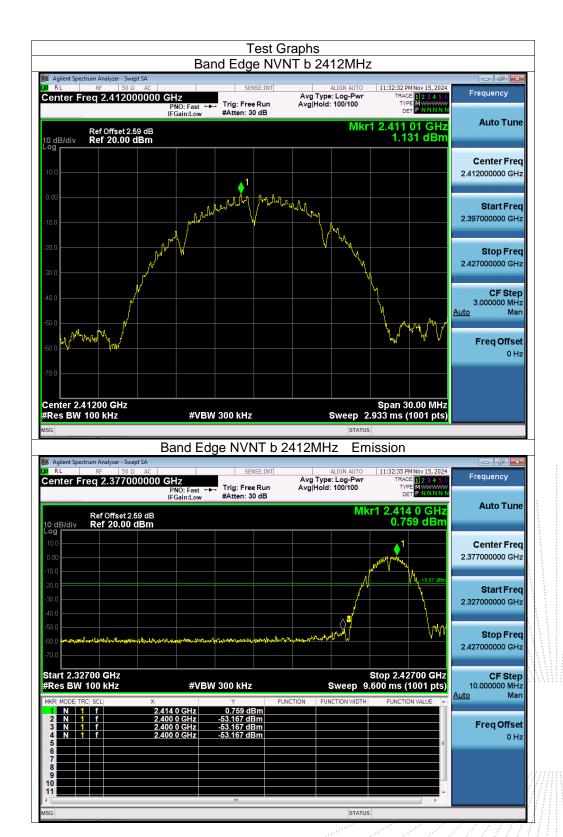
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Note: Power Spectral Density(dBm)=Reading+Cable Loss

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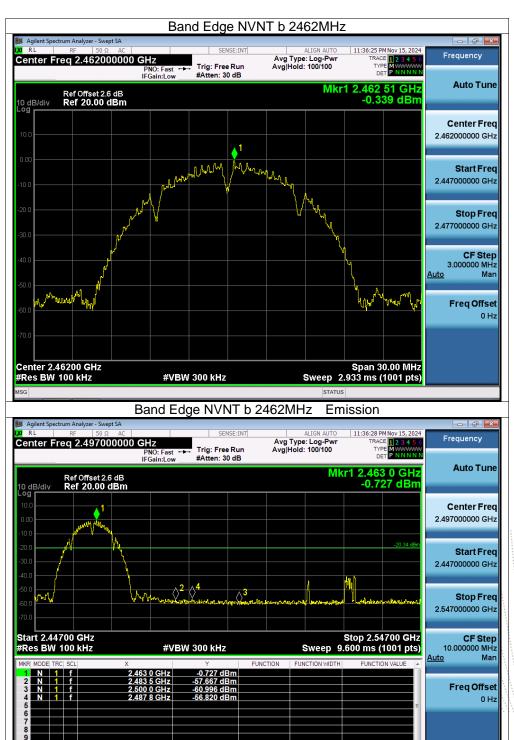


12.5 Test Result



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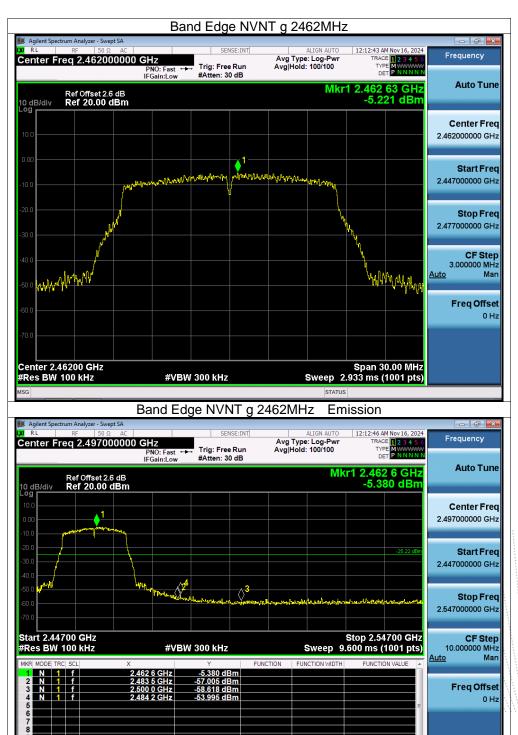
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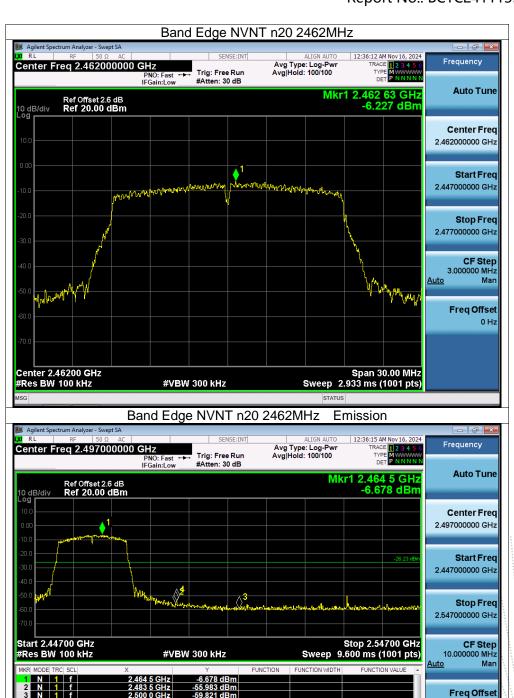




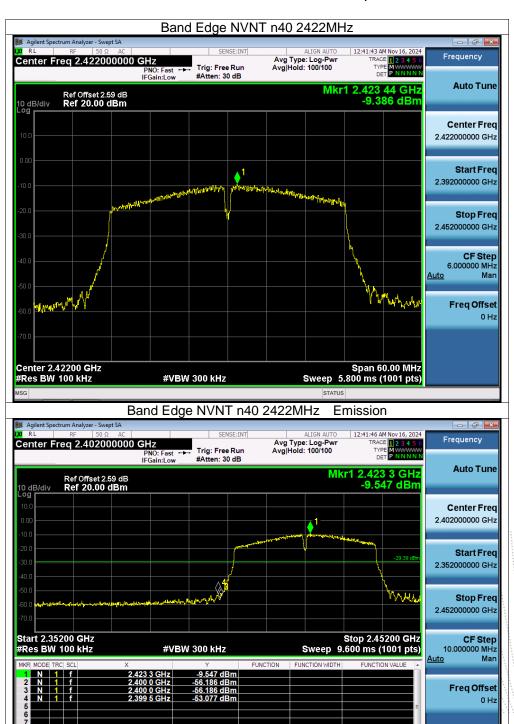
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0 Hz







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