

TEST REPORT

Report No.: BCTC2503804847-3E

Applicant: Dongguan Consung Smart Technology Co.,Ltd

Product Name: AI Calendar

Test Model: DF-15T

Tested Date: 2025-03-24 to 2025-04-15

Issued Date: 2025-04-16

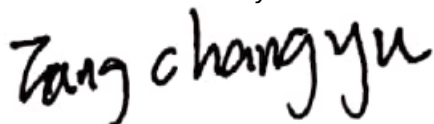
Shenzhen BCTC Testing Co., Ltd.



FCC ID:2AZ6H-DF15T

Product Name: AI Calendar
Trademark: Ai-Calendar
Model/Type reference: DF-15T
DF-18T, DF-21T, DF-23T, DF-32T
Prepared For: Dongguan Consung Smart Technology Co.,Ltd
Address: Building 11, No. 400, Jienan Road, Humen Town, Dongguan City, China
Manufacturer: Dongguan Consung Smart Technology Co.,Ltd
Address: Building 11, No. 400, Jienan Road, Humen Town, Dongguan City, China
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: 2025-03-24
Sample tested Date: 2025-03-24 to 2025-04-15
Issue Date: 2025-04-16
Report No.: BCTC2503804847-3E
Test Standards: FCC Part15.247
ANSI C63.10-2013
Test Results: PASS
Remark: This is WIFI-2.4GHz band radio test report.

Tested by:



Tang Changyu/ Project Handler

Approved by:



Zero Zhou/Reviewer

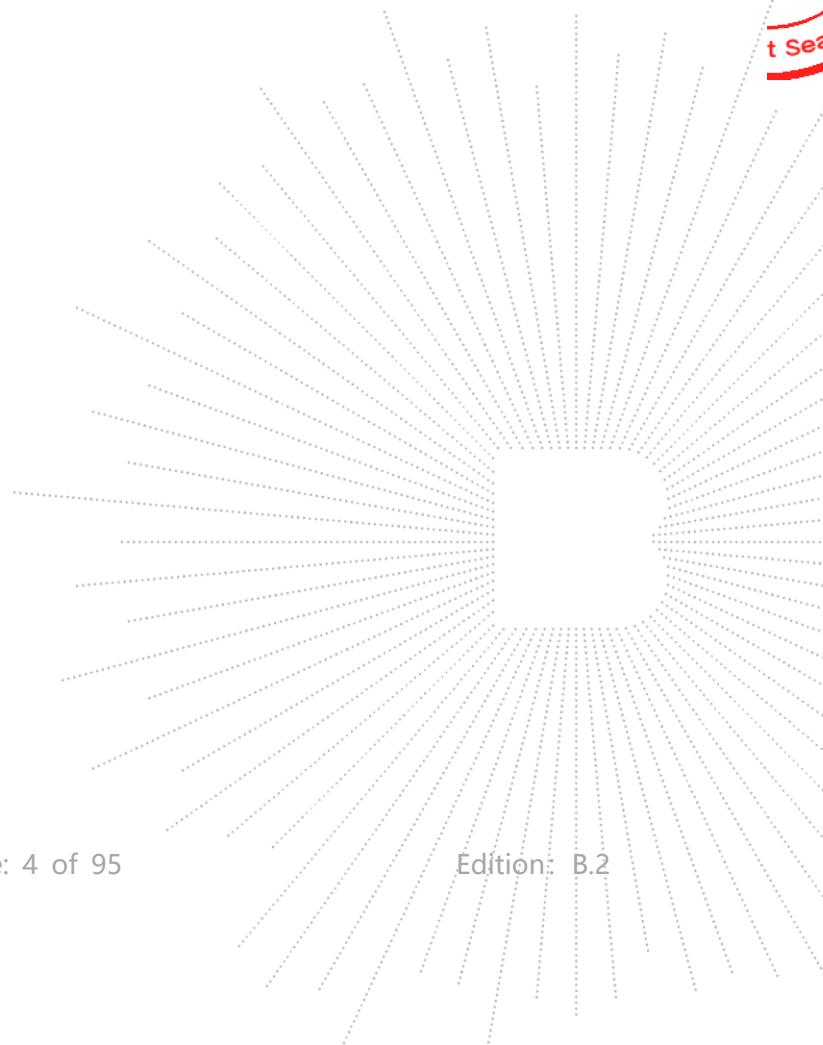
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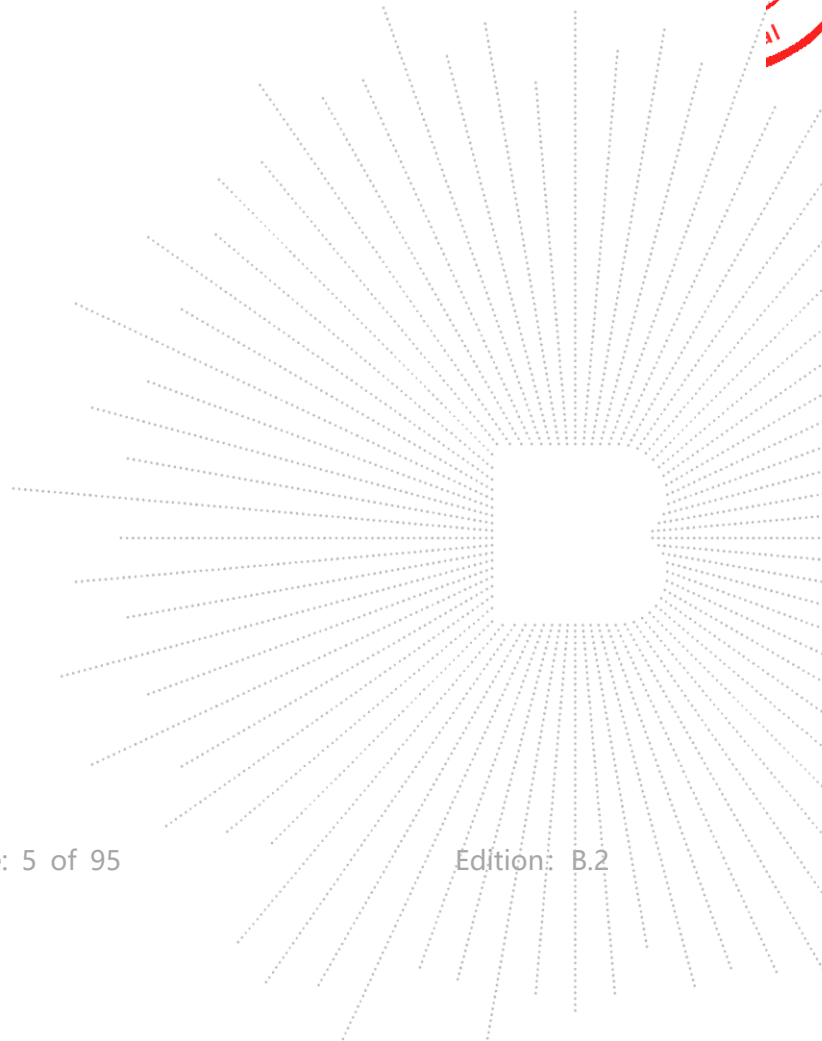
(Note: N/A means not applicable)



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1. Version

Report No.	Issue Date	Description	Approved
BCTC2503804847-3E	2025-04-16	Original	Valid



2. Test Summary

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

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

4. Product Information And Test Setup

4.1 Product Information

Model/Type reference:	DF-15T DF-18T, DF-21T, DF-23T, DF-32T
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	802.11b/g/n20/ax20MHz:2412~2462 MHz 802.11n40/ax40MHz:2422~2452 MHz
Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n Up to 150Mbps 802.11ax Up to 240Mbps
Type of Modulation:	OFDM/DSSS/OFDMA
Number Of Channel	802.11b/g/n20/ax20MHz:11 CH 802.11n40/ax40MHz: 7 CH
Antenna installation:	Internal antenna 0.93 dBi
Antenna Gain:	Remark: ☒ The antenna gain of the product comes from the antenna report provided by the 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.
Ratings:	DC 12V From Adapter Manufacture: Shenzhen Keweiye Electronics CO.,LTD
Adapter Information:	Model No.:KWY40W-1203000 Input: AC 100-240V 50/60Hz 1.0A Output: DC 12V 3000mA

4.2 Test Setup Configuration

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

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	AI Calendar	Ai-Calendar	DF-15T	N/A	EUT
E-2	Adapter	N/A	KWY40W-1203000	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	3M	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) /ax(20)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	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) /ax(40)					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	04	2427	05	2432
06	2437	07	2442	08	2447
09	2452				

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/ax20 CH1/ CH6/ CH11
Mode 4	802.11n40/ax40 CH3/ CH6/ CH9
Mode 5	WIFI Linking+BT Linking

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) This phototype does not support RU mode

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

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

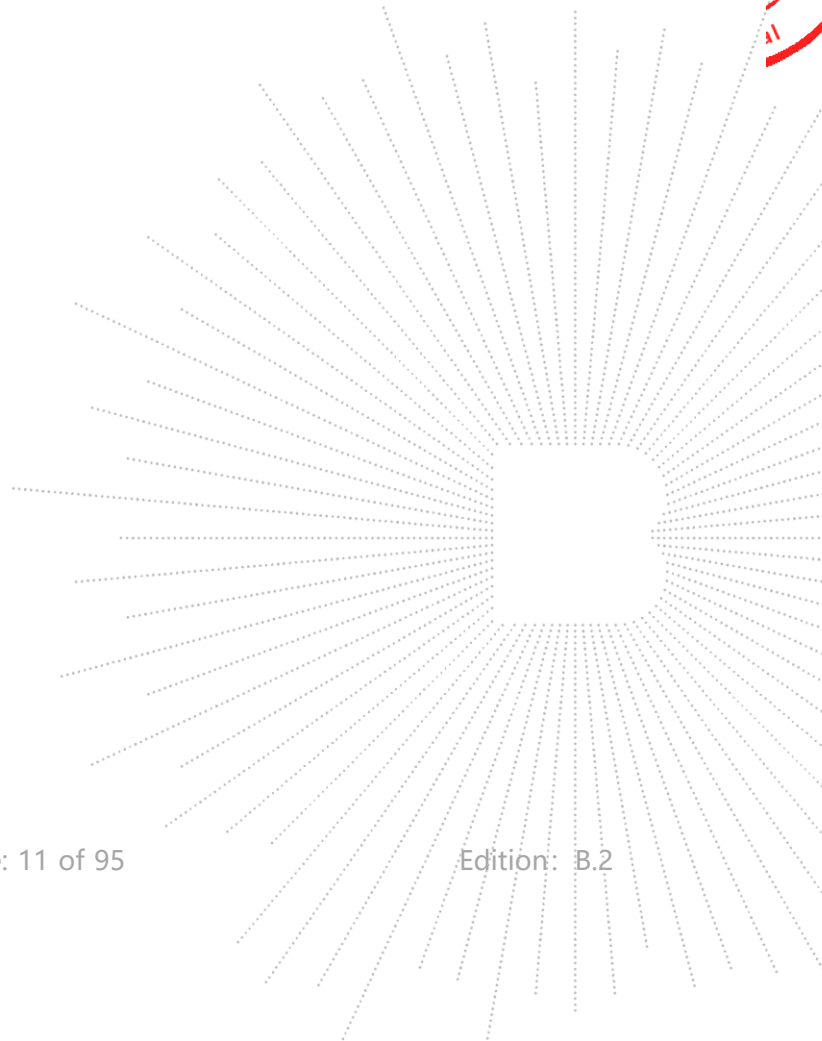
ISED CAB identifier: CN0017

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR	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

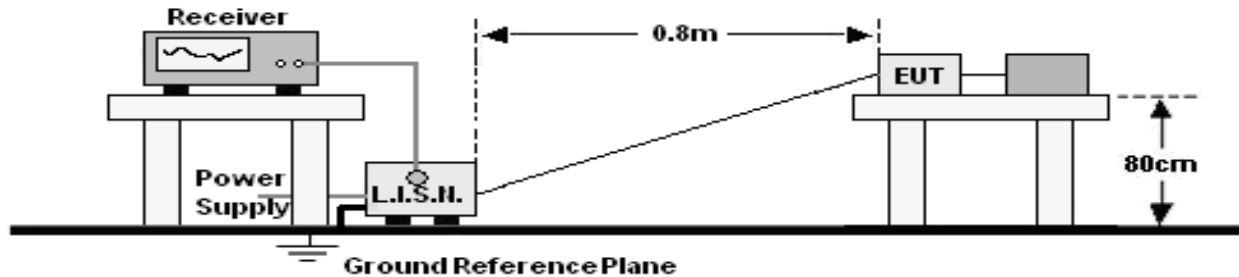
RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A	\	May 16, 2024	May 15, 2025
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Radio frequency control box	MAIWEI	MW100-RFC B	\	\	\
Software	MAIWEI	MTS 8310	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 16, 2024	May 15, 2025
Receiver	R&S	ESR	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	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	SK2021040901	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

FREQUENCY (MHz)	Limit (dBuV)	
	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:

- *Decreasing linearly with logarithm of frequency.
- 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

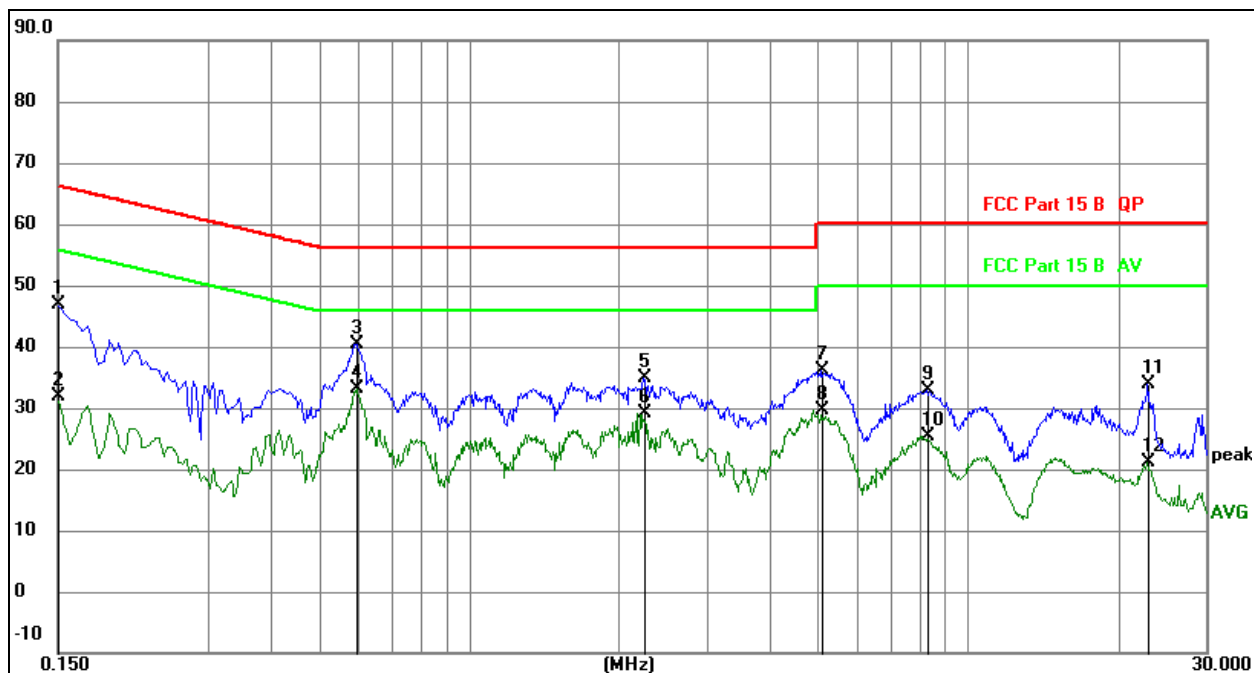
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

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.

6.5 Test Result

Temperature:	25.2 °C	Relative Humidity:	52%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 5	Test Voltage :	AC120V/60Hz

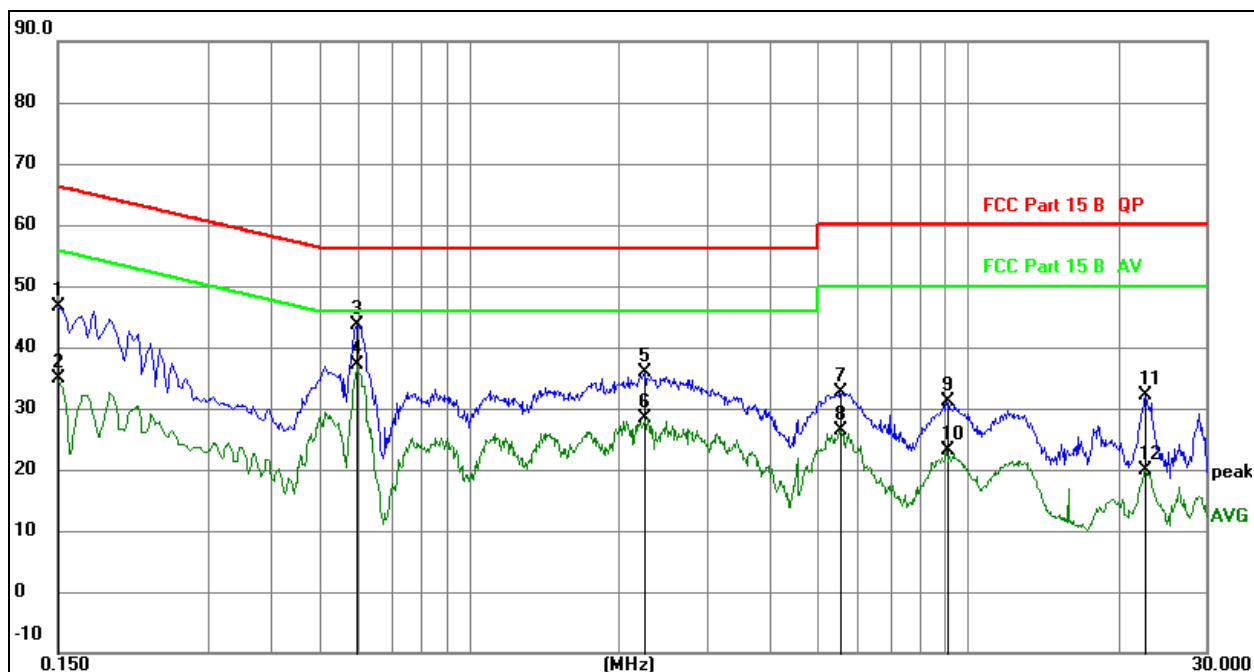


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dB	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	26.83	20.07	46.90	66.00	-19.10	QP
2		0.1500	11.91	20.07	31.98	56.00	-24.02	AVG
3		0.5955	20.39	20.08	40.47	56.00	-15.53	QP
4	*	0.5955	12.93	20.08	33.01	46.00	-12.99	AVG
5		2.2470	14.89	20.10	34.99	56.00	-21.01	QP
6		2.2470	8.96	20.10	29.06	46.00	-16.94	AVG
7		5.1045	15.87	20.15	36.02	60.00	-23.98	QP
8		5.1045	9.51	20.15	29.66	50.00	-20.34	AVG
9		8.2995	12.75	20.16	32.91	60.00	-27.09	QP
10		8.2995	5.16	20.16	25.32	50.00	-24.68	AVG
11		22.8974	13.53	20.31	33.84	60.00	-26.16	QP
12		22.8974	0.70	20.31	21.01	50.00	-28.99	AVG

Temperature:	25.2 °C	Relative Humidity:	52%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 5	Test Voltage :	AC120V/60Hz



Remark:

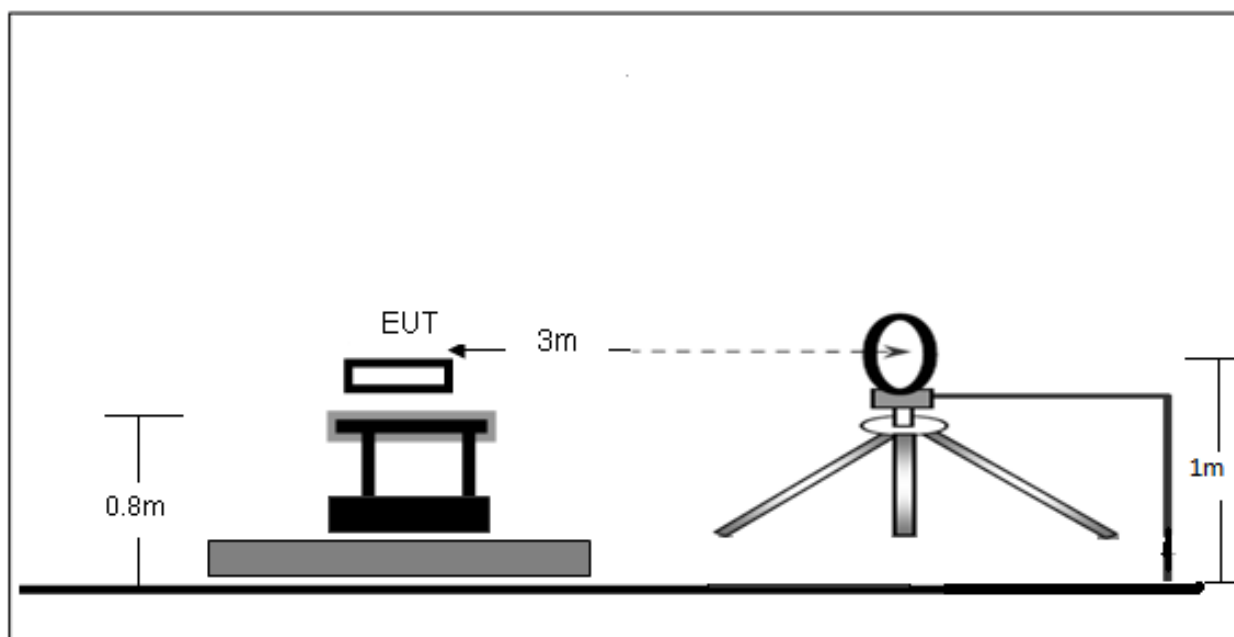
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over=Measurement-Limit

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	26.45	20.07	46.52	66.00	-19.48	QP
2		0.1500	14.78	20.07	34.85	56.00	-21.15	AVG
3		0.5948	23.45	20.08	43.53	56.00	-12.47	QP
4	*	0.5948	17.13	20.08	37.21	46.00	-8.79	AVG
5		2.2486	15.68	20.10	35.78	56.00	-20.22	QP
6		2.2486	8.19	20.10	28.29	46.00	-17.71	AVG
7		5.5347	12.48	20.15	32.63	60.00	-27.37	QP
8		5.5347	6.33	20.15	26.48	50.00	-23.52	AVG
9		9.0592	10.84	20.17	31.01	60.00	-28.99	QP
10		9.0592	2.92	20.17	23.09	50.00	-26.91	AVG
11		22.6551	11.72	20.31	32.03	60.00	-27.97	QP
12		22.6551	-0.42	20.31	19.89	50.00	-30.11	AVG

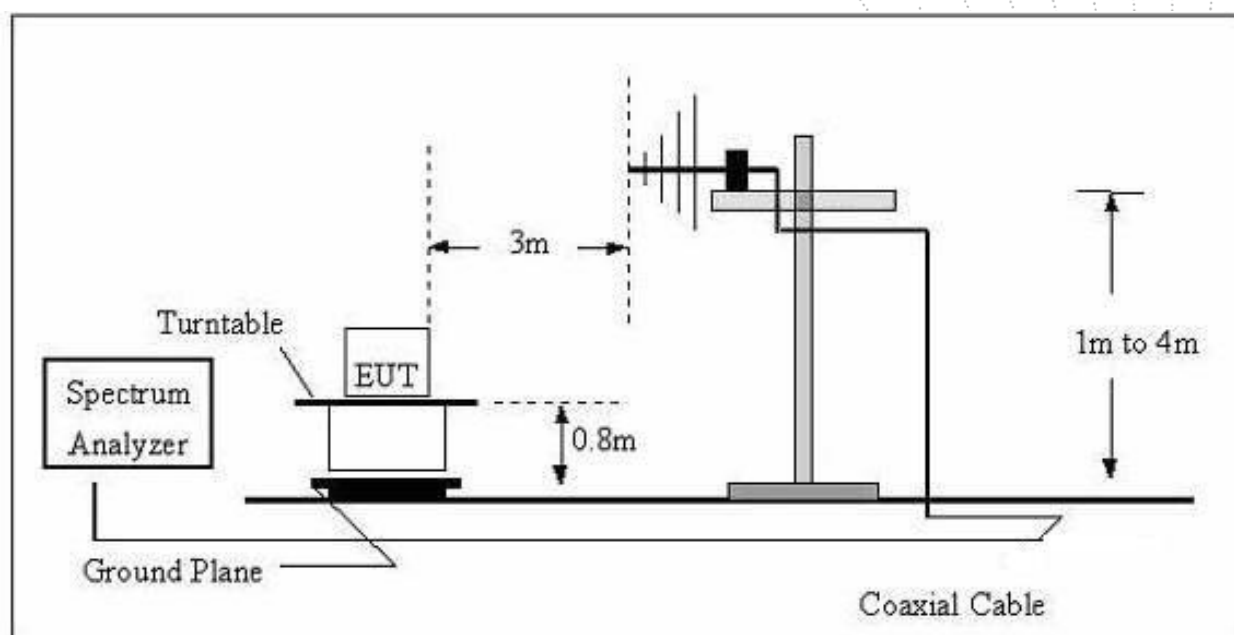
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

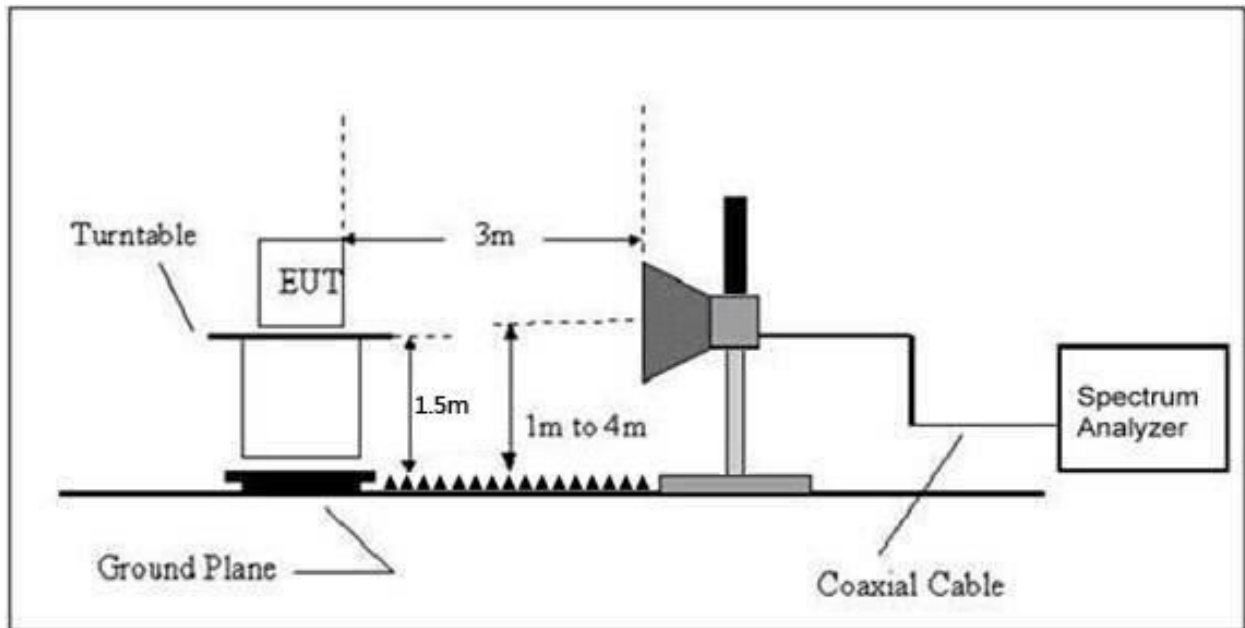
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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

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).

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:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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:

- 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).
- Test the EUT in the lowest channel, the middle 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.

Above 1GHz test procedure as below:

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 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:	25.5 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 5	Polarization :	--

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

Note:

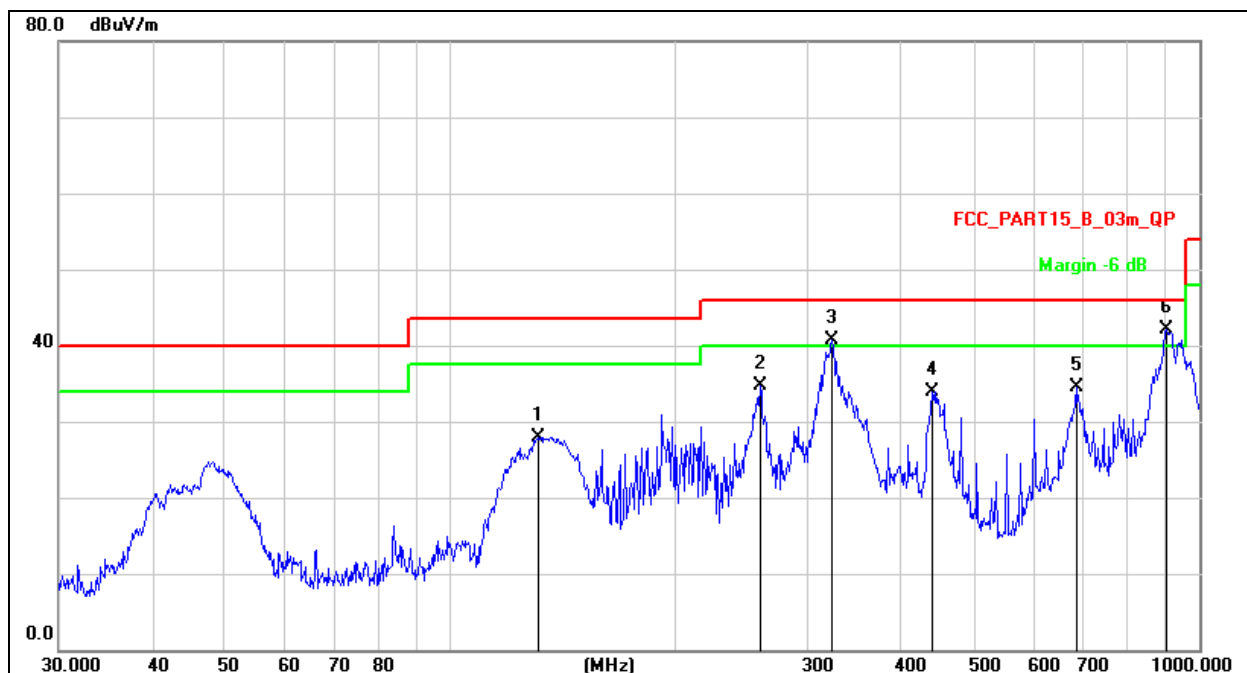
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

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

Between 30MHz – 1GHz

Temperature:	25.5 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 5	Test Voltage:	AC120V/60Hz

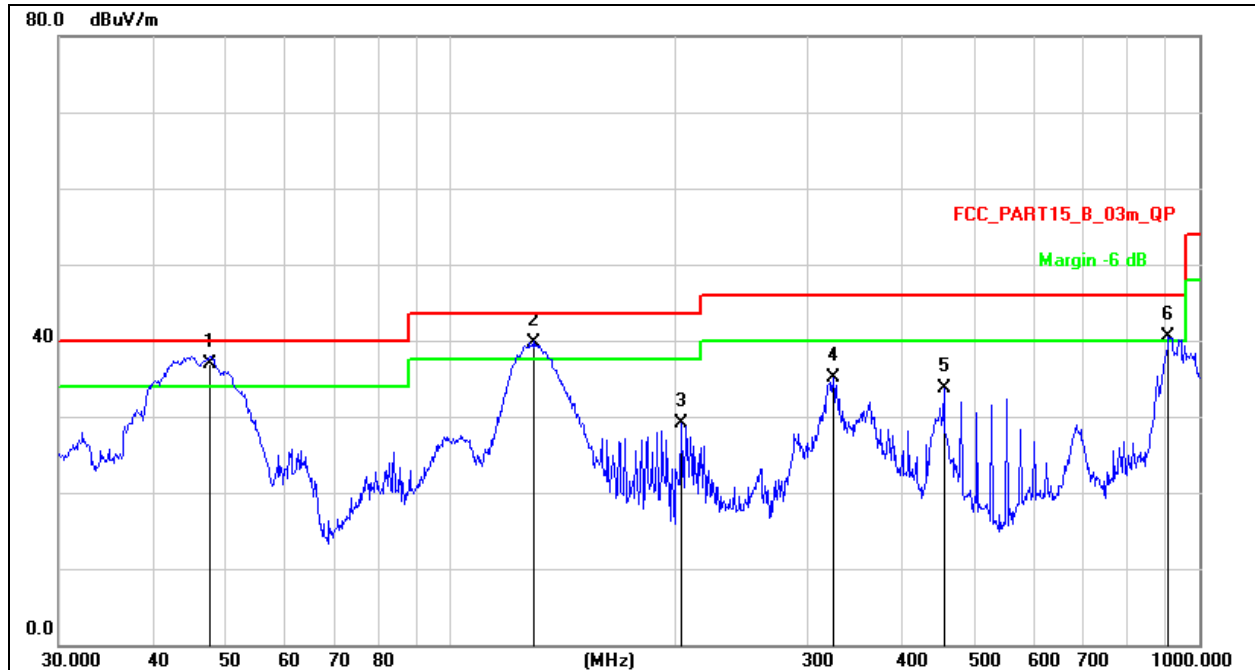


Remark:

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

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		130.8369	46.03	-18.09	27.94	43.50	-15.56	QP
2		259.2338	48.75	-14.10	34.65	46.00	-11.35	QP
3	!	323.3204	53.18	-12.42	40.76	46.00	-5.24	QP
4		440.1963	44.04	-10.05	33.99	46.00	-12.01	QP
5		684.7454	40.41	-5.85	34.56	46.00	-11.44	QP
6	*	903.3094	45.21	-3.11	42.10	46.00	-3.90	QP

Temperature:	25.5 °C	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. Measure=Reading Level+ Correct Factor
3. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	47.6586	51.07	-14.09	36.98	40.00	-3.02	QP
2	!	129.4677	57.79	-17.99	39.80	43.50	-3.70	QP
3		203.5228	44.66	-15.62	29.04	43.50	-14.46	QP
4		324.4561	47.47	-12.38	35.09	46.00	-10.91	QP
5		455.9058	43.43	-9.71	33.72	46.00	-12.28	QP
6	!	909.6667	43.66	-3.09	40.57	46.00	-5.43	QP

Between 1GHz – 25GHz
802.11b

Polar (H/V)	Frequency (MHz)	Reading Level (dBUV/m)	Correct Factor (dB)	Measurement (dBUV/m)	Limits (dBUV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	68.90	-19.95	48.95	74.00	-25.05	PK
V	4824.00	59.89	-19.95	39.94	54.00	-14.06	AV
V	7236.00	65.11	-14.14	50.97	74.00	-23.03	PK
V	7236.00	58.62	-14.14	44.48	54.00	-9.52	AV
H	4824.00	66.34	-19.95	46.39	74.00	-27.61	PK
H	4824.00	58.30	-19.95	38.35	54.00	-15.65	AV
H	7236.00	69.77	-14.14	55.63	74.00	-18.37	PK
H	7236.00	57.92	-14.14	43.78	54.00	-10.22	AV
Middle channel:2437MHz							
V	4874.00	65.90	-19.85	46.05	74.00	-27.95	PK
V	4874.00	57.70	-19.85	37.85	54.00	-16.15	AV
V	7311.00	66.83	-13.93	52.90	74.00	-21.10	PK
V	7311.00	55.59	-13.93	41.66	54.00	-12.34	AV
H	4874.00	64.32	-19.85	44.47	74.00	-29.53	PK
H	4874.00	56.54	-19.85	36.69	54.00	-17.31	AV
H	7311.00	65.38	-13.93	51.45	74.00	-22.55	PK
H	7311.00	54.98	-13.93	41.05	54.00	-12.95	AV
High channel:2462MHz							
V	4924.00	69.72	-19.75	49.97	74.00	-24.03	PK
V	4924.00	58.11	-19.75	38.36	54.00	-15.64	AV
V	7386.00	67.39	-13.72	53.67	74.00	-20.33	PK
V	7386.00	55.19	-13.72	41.47	54.00	-12.53	AV
H	4924.00	64.42	-19.75	44.67	74.00	-29.33	PK
H	4924.00	57.52	-19.75	37.77	54.00	-16.23	AV
H	7386.00	67.18	-13.72	53.46	74.00	-20.54	PK
H	7386.00	58.37	-13.72	44.65	54.00	-9.35	AV

Remark:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier,
Over= Measurement – Limit
- 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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	65.52	-19.95	45.57	74.00	-28.43	PK
V	4824.00	58.15	-19.95	38.20	54.00	-15.80	AV
V	7236.00	69.92	-14.14	55.78	74.00	-18.22	PK
V	7236.00	54.11	-14.14	39.97	54.00	-14.03	AV
H	4824.00	69.16	-19.95	49.21	74.00	-24.79	PK
H	4824.00	58.85	-19.95	38.90	54.00	-15.10	AV
H	7236.00	68.05	-14.14	53.91	74.00	-20.09	PK
H	7236.00	59.39	-14.14	45.25	54.00	-8.75	AV
Middle channel:2437MHz							
V	4874.00	65.08	-19.85	45.23	74.00	-28.77	PK
V	4874.00	58.52	-19.85	38.67	54.00	-15.33	AV
V	7311.00	68.02	-13.93	54.09	74.00	-19.91	PK
V	7311.00	57.24	-13.93	43.31	54.00	-10.69	AV
H	4874.00	67.57	-19.85	47.72	74.00	-26.28	PK
H	4874.00	55.99	-19.85	36.14	54.00	-17.86	AV
H	7311.00	67.02	-13.93	53.09	74.00	-20.91	PK
H	7311.00	54.42	-13.93	40.49	54.00	-13.51	AV
High channel:2462MHz							
V	4924.00	65.28	-19.75	45.53	74.00	-28.47	PK
V	4924.00	56.59	-19.75	36.84	54.00	-17.16	AV
V	7386.00	69.01	-13.72	55.29	74.00	-18.71	PK
V	7386.00	56.04	-13.72	42.32	54.00	-11.68	AV
H	4924.00	69.99	-19.75	50.24	74.00	-23.76	PK
H	4924.00	55.27	-19.75	35.52	54.00	-18.48	AV
H	7386.00	67.27	-13.72	53.55	74.00	-20.45	PK
H	7386.00	54.61	-13.72	40.89	54.00	-13.11	AV

Remark:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier,
Over= Measurement – Limit
- 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 (H/V)	Frequency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measurement (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	68.73	-19.95	48.78	74.00	-25.22	PK
V	4824.00	59.33	-19.95	39.38	54.00	-14.62	AV
V	7236.00	68.53	-14.14	54.39	74.00	-19.61	PK
V	7236.00	55.67	-14.14	41.53	54.00	-12.47	AV
H	4824.00	68.17	-19.95	48.22	74.00	-25.78	PK
H	4824.00	55.32	-19.95	35.37	54.00	-18.63	AV
H	7236.00	65.56	-14.14	51.42	74.00	-22.58	PK
H	7236.00	57.10	-14.14	42.96	54.00	-11.04	AV
Middle channel:2437MHz							
V	4874.00	67.13	-19.85	47.28	74.00	-26.72	PK
V	4874.00	58.04	-19.85	38.19	54.00	-15.81	AV
V	7311.00	69.95	-13.93	56.02	74.00	-17.98	PK
V	7311.00	55.41	-13.93	41.48	54.00	-12.52	AV
H	4874.00	64.52	-19.85	44.67	74.00	-29.33	PK
H	4874.00	58.59	-19.85	38.74	54.00	-15.26	AV
H	7311.00	68.97	-13.93	55.04	74.00	-18.96	PK
H	7311.00	54.99	-13.93	41.06	54.00	-12.94	AV
High channel:2462MHz							
V	4924.00	66.92	-19.75	47.17	74.00	-26.83	PK
V	4924.00	56.72	-19.75	36.97	54.00	-17.03	AV
V	7386.00	67.17	-13.72	53.45	74.00	-20.55	PK
V	7386.00	57.74	-13.72	44.02	54.00	-9.98	AV
H	4924.00	65.80	-19.75	46.05	74.00	-27.95	PK
H	4924.00	56.97	-19.75	37.22	54.00	-16.78	AV
H	7386.00	65.80	-13.72	52.08	74.00	-21.92	PK
H	7386.00	55.79	-13.72	42.07	54.00	-11.93	AV

Remark:

1. Measurement = Reading Level + Correct Factor,
Correct Factor = Antenna Factor + Cable Loss – Pre-amplifier,
Over= Measurement – Limit
- 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 (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2422MHz							
V	4844.00	64.88	-19.91	44.97	74.00	-29.03	PK
V	4844.00	58.50	-19.91	38.59	54.00	-15.41	AV
V	7266.00	65.85	-14.06	51.79	74.00	-22.21	PK
V	7266.00	57.74	-14.06	43.68	54.00	-10.32	AV
H	4844.00	64.37	-19.91	44.46	74.00	-29.54	PK
H	4844.00	57.26	-19.91	37.35	54.00	-16.65	AV
H	7266.00	65.34	-14.06	51.28	74.00	-22.72	PK
H	7266.00	58.02	-14.06	43.96	54.00	-10.04	AV
Middle channel:2437MHz							
V	4874.00	64.39	-19.85	44.54	74.00	-29.46	PK
V	4874.00	54.53	-19.85	34.68	54.00	-19.32	AV
V	7311.00	67.44	-13.93	53.51	74.00	-20.49	PK
V	7311.00	59.56	-13.93	45.63	54.00	-8.37	AV
H	4874.00	67.02	-19.85	47.17	74.00	-26.83	PK
H	4874.00	56.43	-19.85	36.58	54.00	-17.42	AV
H	7311.00	69.73	-13.93	55.80	74.00	-18.20	PK
H	7311.00	56.44	-13.93	42.51	54.00	-11.49	AV
High channel:2452MHz							
V	4904.00	69.40	-19.79	49.61	74.00	-24.39	PK
V	4904.00	59.42	-19.79	39.63	54.00	-14.37	AV
V	7356.00	68.85	-13.80	55.05	74.00	-18.95	PK
V	7356.00	57.68	-13.80	43.88	54.00	-10.12	AV
H	4904.00	66.32	-19.79	46.53	74.00	-27.47	PK
H	4904.00	58.91	-19.79	39.12	54.00	-14.88	AV
H	7356.00	68.13	-13.80	54.33	74.00	-19.67	PK
H	7356.00	57.96	-13.80	44.16	54.00	-9.84	AV

Remark:

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

802.11ax20

Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2412MHz							
V	4824.00	66.45	-19.95	46.50	74.00	-27.50	PK
V	4824.00	57.47	-19.95	37.52	54.00	-16.48	AV
V	7236.00	68.21	-14.14	54.07	74.00	-19.93	PK
V	7236.00	58.17	-14.14	44.03	54.00	-9.97	AV
H	4824.00	64.02	-19.95	44.07	74.00	-29.93	PK
H	4824.00	57.82	-19.95	37.87	54.00	-16.13	AV
H	7236.00	66.89	-14.14	52.75	74.00	-21.25	PK
H	7236.00	54.21	-14.14	40.07	54.00	-13.93	AV
Middle channel:2437MHz							
V	4874.00	69.44	-19.85	49.59	74.00	-24.41	PK
V	4874.00	55.17	-19.85	35.32	54.00	-18.68	AV
V	7311.00	67.32	-13.93	53.39	74.00	-20.61	PK
V	7311.00	54.96	-13.93	41.03	54.00	-12.97	AV
H	4874.00	66.33	-19.85	46.48	74.00	-27.52	PK
H	4874.00	58.98	-19.85	39.13	54.00	-14.87	AV
H	7311.00	64.84	-13.93	50.91	74.00	-23.09	PK
H	7311.00	59.52	-13.93	45.59	54.00	-8.41	AV
High channel:2462MHz							
V	4924.00	67.49	-19.75	47.74	74.00	-26.26	PK
V	4924.00	58.69	-19.75	38.94	54.00	-15.06	AV
V	7386.00	66.35	-13.72	52.63	74.00	-21.37	PK
V	7386.00	55.47	-13.72	41.75	54.00	-12.25	AV
H	4924.00	69.01	-19.75	49.26	74.00	-24.74	PK
H	4924.00	55.95	-19.75	36.20	54.00	-17.80	AV
H	7386.00	68.92	-13.72	55.20	74.00	-18.80	PK
H	7386.00	57.48	-13.72	43.76	54.00	-10.24	AV

Remark:

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

802.11ax40

Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Limits (dBuV/m)	Over (dB)	Detector Type
Low channel:2422MHz							
V	4844.00	68.69	-19.91	48.78	74.00	-25.22	PK
V	4844.00	54.68	-19.91	34.77	54.00	-19.23	AV
V	7266.00	64.95	-14.06	50.89	74.00	-23.11	PK
V	7266.00	58.33	-14.06	44.27	54.00	-9.73	AV
H	4844.00	67.13	-19.91	47.22	74.00	-26.78	PK
H	4844.00	58.01	-19.91	38.10	54.00	-15.90	AV
H	7266.00	65.97	-14.06	51.91	74.00	-22.09	PK
H	7266.00	55.46	-14.06	41.40	54.00	-12.60	AV
Middle channel:2437MHz							
V	4874.00	68.61	-19.85	48.76	74.00	-25.24	PK
V	4874.00	59.37	-19.85	39.52	54.00	-14.48	AV
V	7311.00	69.04	-13.93	55.11	74.00	-18.89	PK
V	7311.00	56.12	-13.93	42.19	54.00	-11.81	AV
H	4874.00	65.07	-19.85	45.22	74.00	-28.78	PK
H	4874.00	58.52	-19.85	38.67	54.00	-15.33	AV
H	7311.00	67.51	-13.93	53.58	74.00	-20.42	PK
H	7311.00	55.02	-13.93	41.09	54.00	-12.91	AV
High channel:2452MHz							
V	4904.00	65.62	-19.79	45.83	74.00	-28.17	PK
V	4904.00	59.99	-19.79	40.20	54.00	-13.80	AV
V	7356.00	68.18	-13.80	54.38	74.00	-19.62	PK
V	7356.00	54.43	-13.80	40.63	54.00	-13.37	AV
H	4904.00	67.42	-19.79	47.63	74.00	-26.37	PK
H	4904.00	58.56	-19.79	38.77	54.00	-15.23	AV
H	7356.00	69.70	-13.80	55.90	74.00	-18.10	PK
H	7356.00	59.96	-13.80	46.16	54.00	-7.84	AV

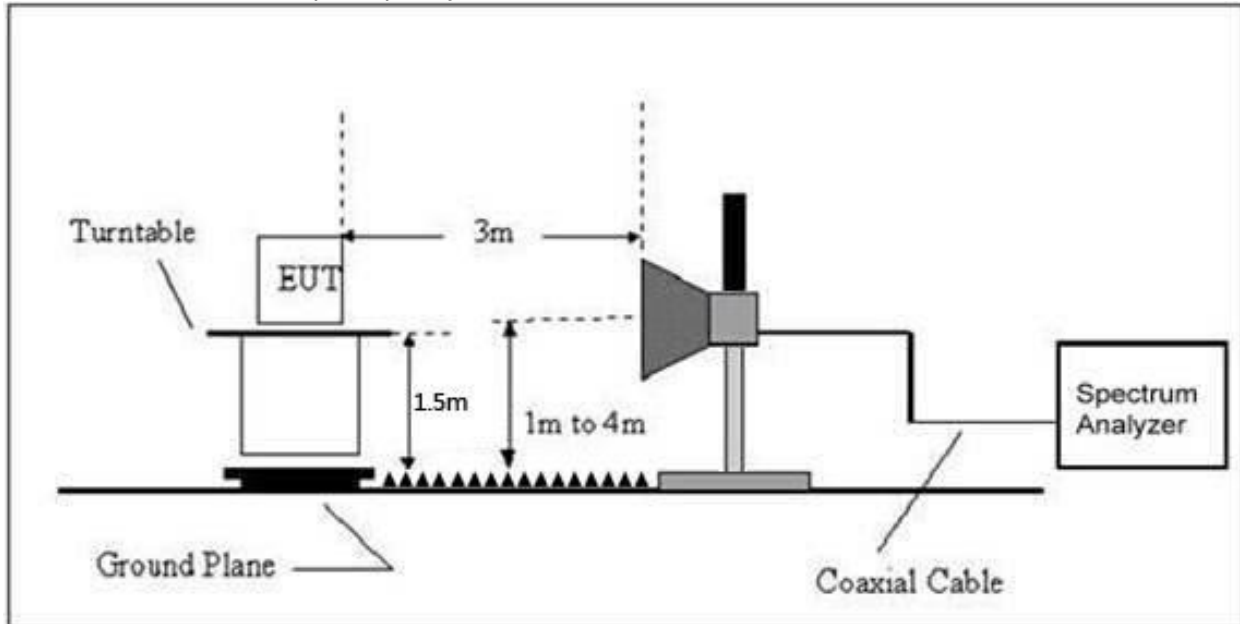
Remark:

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

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.

8.5 Test Result

	Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Measure- ment (dBuV/m)		Over	Result
					PK	PK	AV	PK	
802.11b	Low Channel 2412MHz								
	H	2390.00	69.35	-25.43	43.92	74.00	54.00	-30.08	PASS
	H	2400.00	75.08	-25.40	49.68	74.00	54.00	-24.32	PASS
	V	2390.00	74.19	-25.43	48.76	74.00	54.00	-25.24	PASS
	V	2400.00	76.73	-25.40	51.33	74.00	54.00	-22.67	PASS
	High Channel 2462MHz								
	H	2483.50	73.68	-25.15	48.53	74.00	54.00	-25.47	PASS
	H	2500.00	71.79	-25.10	46.69	74.00	54.00	-27.31	PASS
	V	2483.50	72.53	-25.15	47.38	74.00	54.00	-26.62	PASS
	V	2500.00	74.98	-25.10	49.88	74.00	54.00	-24.12	PASS
802.11g	Low Channel 2412MHz								
	H	2390.00	69.60	-25.43	44.17	74.00	54.00	-29.83	PASS
	H	2400.00	75.31	-25.40	49.91	74.00	54.00	-24.09	PASS
	V	2390.00	74.57	-25.43	49.14	74.00	54.00	-24.86	PASS
	V	2400.00	77.08	-25.40	51.68	74.00	54.00	-22.32	PASS
	High Channel 2462MHz								
	H	2483.50	72.04	-25.15	46.89	74.00	54.00	-27.11	PASS
	H	2500.00	75.35	-25.10	50.25	74.00	54.00	-23.75	PASS
	V	2483.50	70.68	-25.15	45.53	74.00	54.00	-28.47	PASS
	V	2500.00	73.39	-25.10	48.29	74.00	54.00	-25.71	PASS
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.									

	Polar (H/V)	Fre- quency (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Measure- ment (dBuV/m)		Over	Result
					PK	PK	AV	PK	
802.11 n20	Low Channel 2412MHz								
	H	2390.00	70.80	-25.43	45.37	74.00	54.00	-28.63	PASS
	H	2400.00	73.71	-25.40	48.31	74.00	54.00	-25.69	PASS
	V	2390.00	76.95	-25.43	51.52	74.00	54.00	-22.48	PASS
	V	2400.00	76.96	-25.40	51.56	74.00	54.00	-22.44	PASS
	High Channel 2462MHz								
	H	2483.50	72.40	-25.15	47.25	74.00	54.00	-26.75	PASS
	H	2500.00	75.82	-25.10	50.72	74.00	54.00	-23.28	PASS
	V	2483.50	72.76	-25.15	47.61	74.00	54.00	-26.39	PASS
	V	2500.00	74.45	-25.10	49.35	74.00	54.00	-24.65	PASS
802.11 n40	Low Channel 2422MHz								
	H	2390.00	71.71	-25.43	46.28	74.00	54.00	-27.72	PASS
	H	2400.00	75.62	-25.40	50.22	74.00	54.00	-23.78	PASS
	V	2390.00	73.21	-25.43	47.78	74.00	54.00	-26.22	PASS
	V	2400.00	75.55	-25.40	50.15	74.00	54.00	-23.85	PASS
	High Channel 2452MHz								
	H	2483.50	75.58	-25.15	50.43	74.00	54.00	-23.57	PASS
	H	2500.00	74.10	-25.10	49.00	74.00	54.00	-25.00	PASS
	V	2483.50	72.09	-25.15	46.94	74.00	54.00	-27.06	PASS
	V	2500.00	72.57	-25.10	47.47	74.00	54.00	-26.53	PASS
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 (MHz)	Reading Level (dBuV/m)	Correct Factor (dB)	Measure- ment (dBuV/m)	Measure- ment (dBuV/m)		Over	Result
					PK	PK	AV	PK	
802.11 ax20	Low Channel 2412MHz								
	H	2390.00	72.47	-25.43	47.04	74.00	54.00	-26.96	PASS
	H	2400.00	72.28	-25.40	46.88	74.00	54.00	-27.12	PASS
	V	2390.00	76.79	-25.43	51.36	74.00	54.00	-22.64	PASS
	V	2400.00	72.45	-25.40	47.05	74.00	54.00	-26.95	PASS
	High Channel 2462MHz								
	H	2483.50	73.71	-25.15	48.56	74.00	54.00	-25.44	PASS
	H	2500.00	71.20	-25.10	46.10	74.00	54.00	-27.90	PASS
	V	2483.50	74.79	-25.15	49.64	74.00	54.00	-24.36	PASS
	V	2500.00	73.91	-25.10	48.81	74.00	54.00	-25.19	PASS
802.11 ax40	Low Channel 2422MHz								
	H	2390.00	72.12	-25.43	46.69	74.00	54.00	-27.31	PASS
	H	2400.00	72.76	-25.40	47.36	74.00	54.00	-26.64	PASS
	V	2390.00	76.43	-25.43	51.00	74.00	54.00	-23.00	PASS
	V	2400.00	74.41	-25.40	49.01	74.00	54.00	-24.99	PASS
	High Channel 2452MHz								
	H	2483.50	74.83	-25.15	49.68	74.00	54.00	-24.32	PASS
	H	2500.00	76.17	-25.10	51.07	74.00	54.00	-22.93	PASS
	V	2483.50	72.77	-25.15	47.62	74.00	54.00	-26.38	PASS
	V	2500.00	72.35	-25.10	47.25	74.00	54.00	-26.75	PASS
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.									

9. Power Spectral Density Test

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
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 $\geq 3 \times$ 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

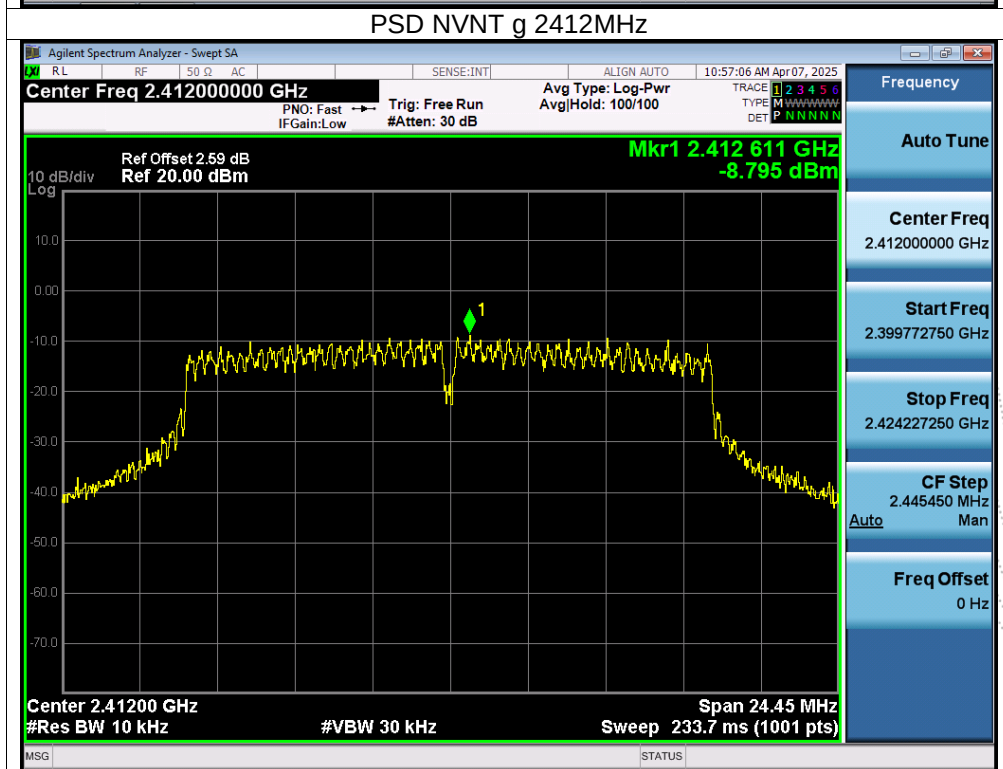
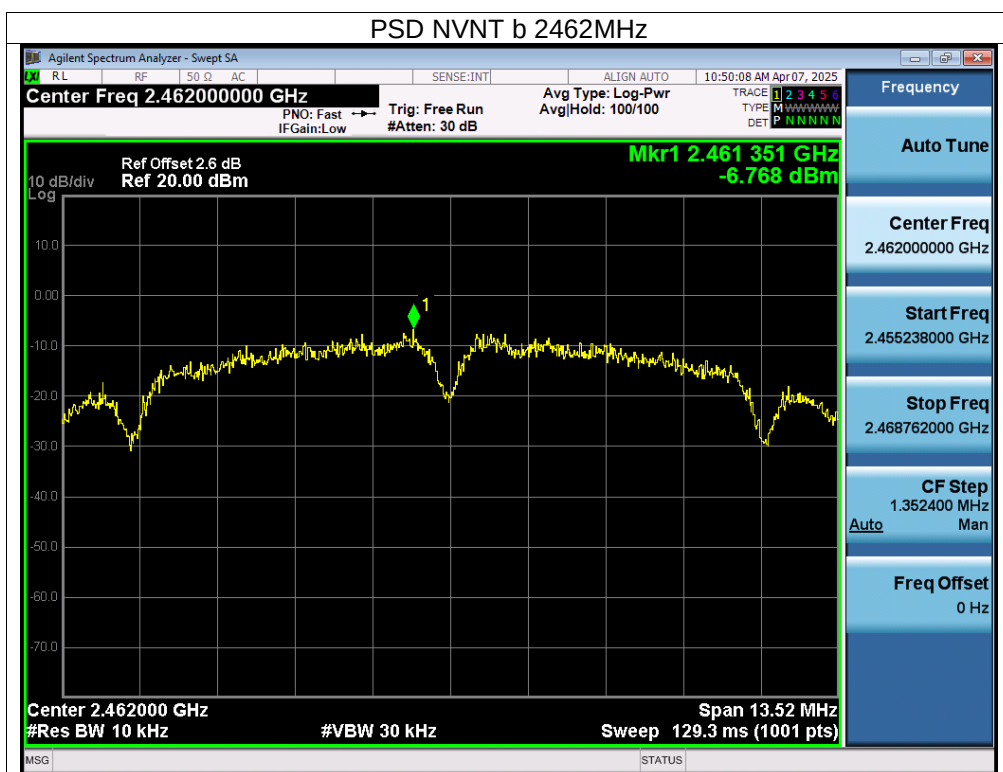
9.5 Test Result

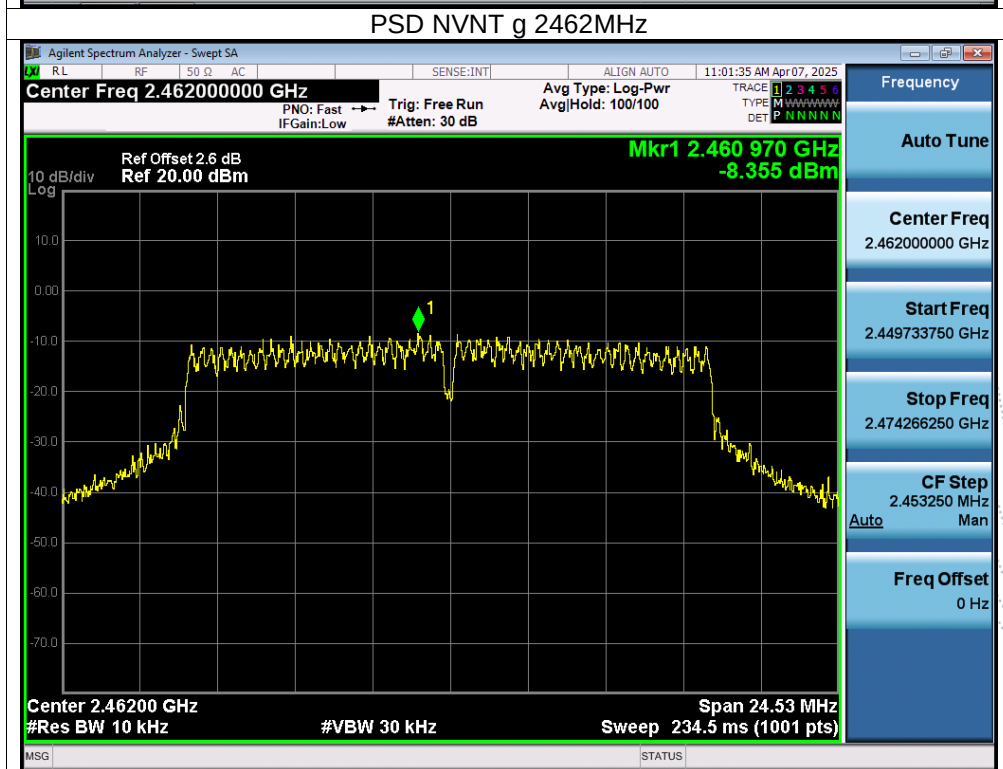
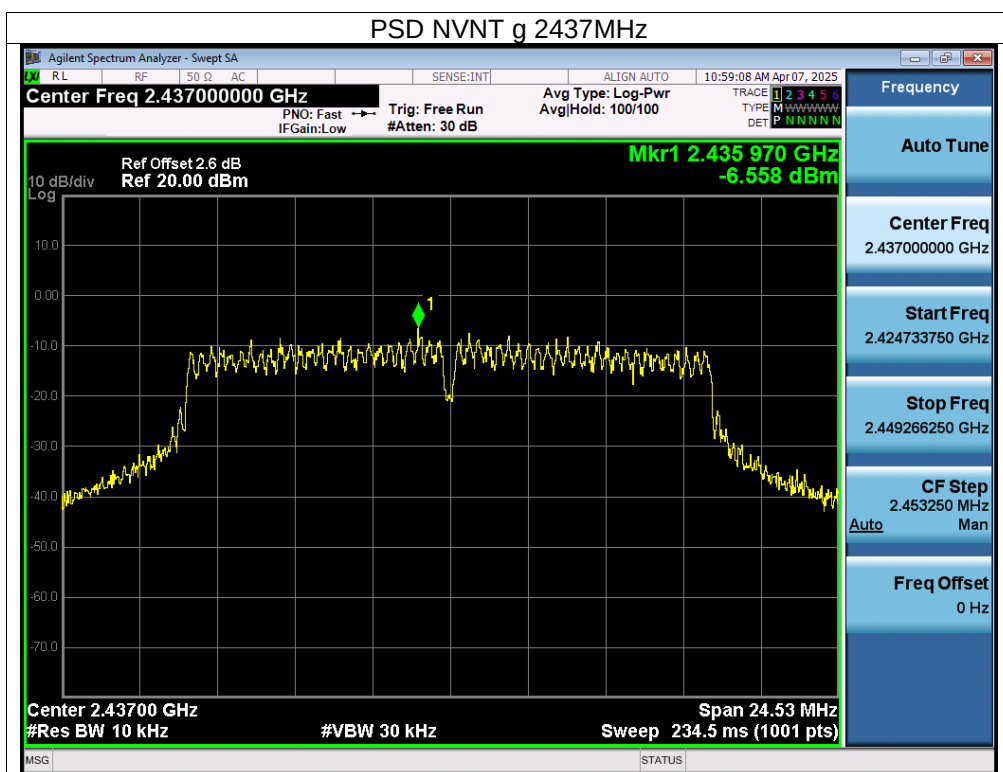
Temperature:	26°C	Relative Humidity:	54%
Test Voltage:	AC 120V/60Hz	Remark:	N/A

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/10kHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	-6.64	-11.87	8	Pass
NVNT	b	2437	-6.15	-11.38	8	Pass
NVNT	b	2462	-6.77	-12	8	Pass
NVNT	g	2412	-8.8	-14.03	8	Pass
NVNT	g	2437	-6.56	-11.79	8	Pass
NVNT	g	2462	-8.36	-13.59	8	Pass
NVNT	n20	2412	-6.35	-11.58	8	Pass
NVNT	n20	2437	-8.36	-13.59	8	Pass
NVNT	n20	2462	-8.85	-14.08	8	Pass
NVNT	n40	2422	-12.63	-17.86	8	Pass
NVNT	n40	2437	-11.44	-16.67	8	Pass
NVNT	n40	2452	-11.31	-16.54	8	Pass
NVNT	ax20	2412	-9.75	-14.98	8	Pass
NVNT	ax20	2437	-10.38	-15.61	8	Pass
NVNT	ax20	2462	-11.07	-16.3	8	Pass
NVNT	ax40	2422	-13.93	-19.16	8	Pass
NVNT	ax40	2437	-12.75	-17.98	8	Pass
NVNT	ax40	2452	-13.14	-18.37	8	Pass

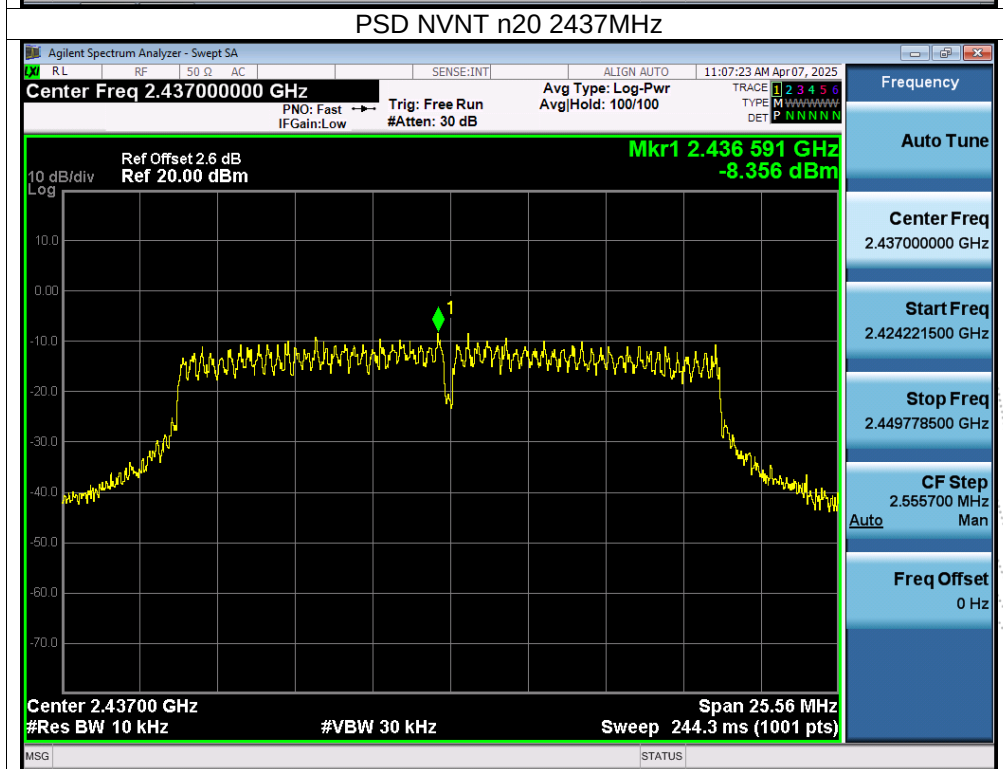
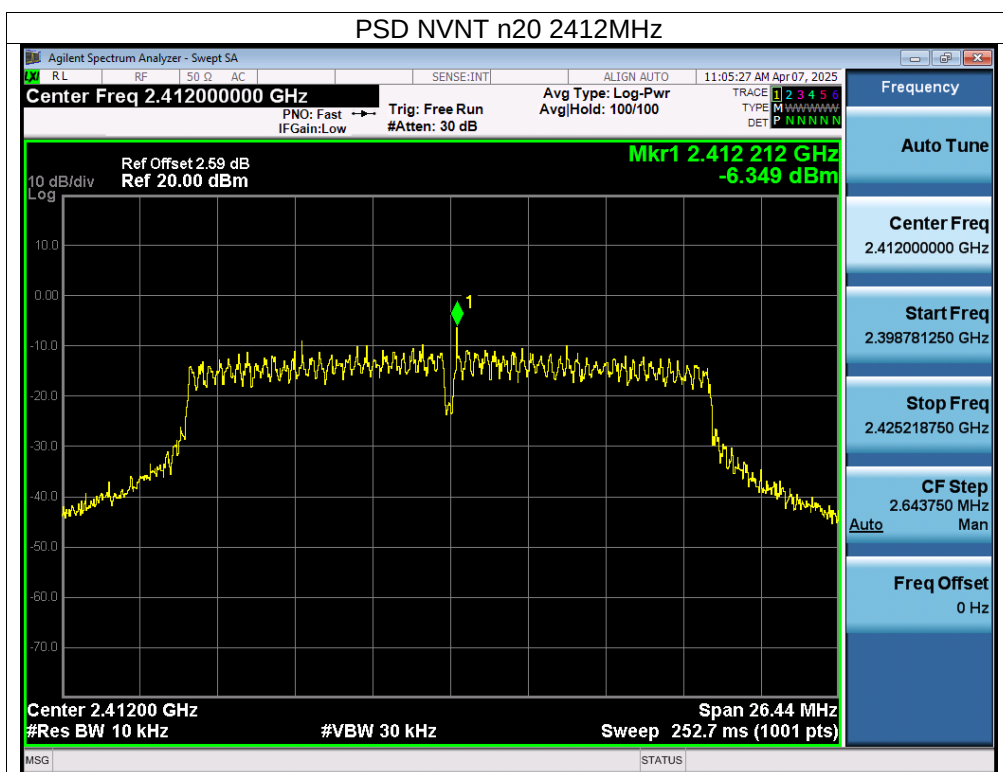
Note: Correction Factor = $10\log(3\text{KHz}/\text{RBW in measurement}) = -5.23$

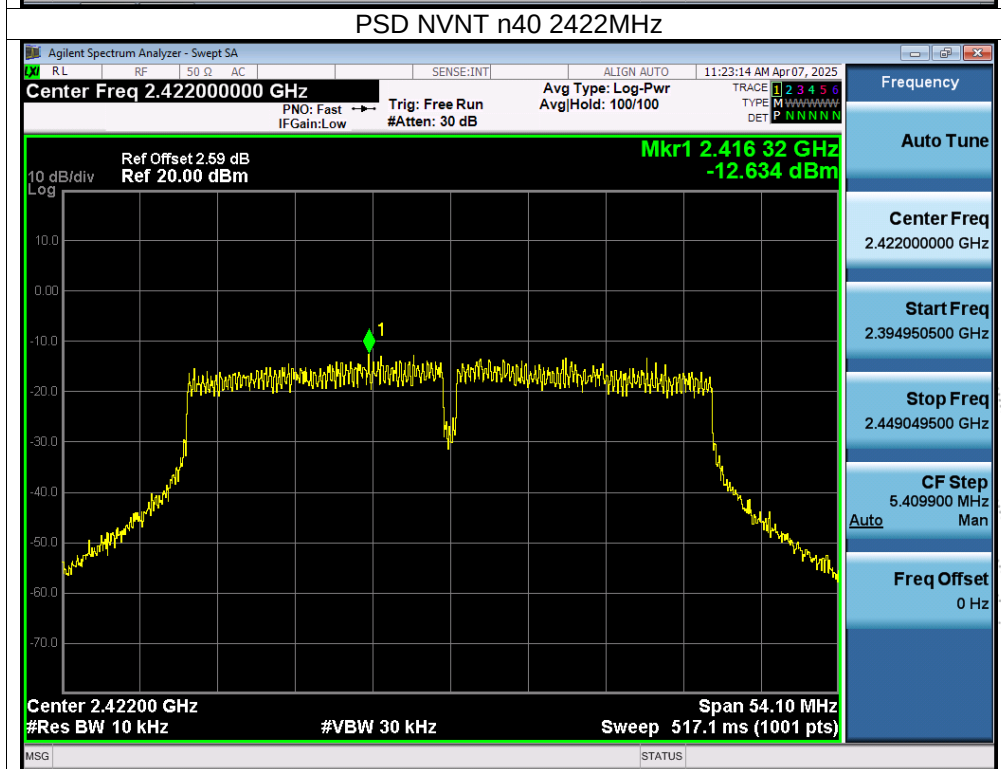
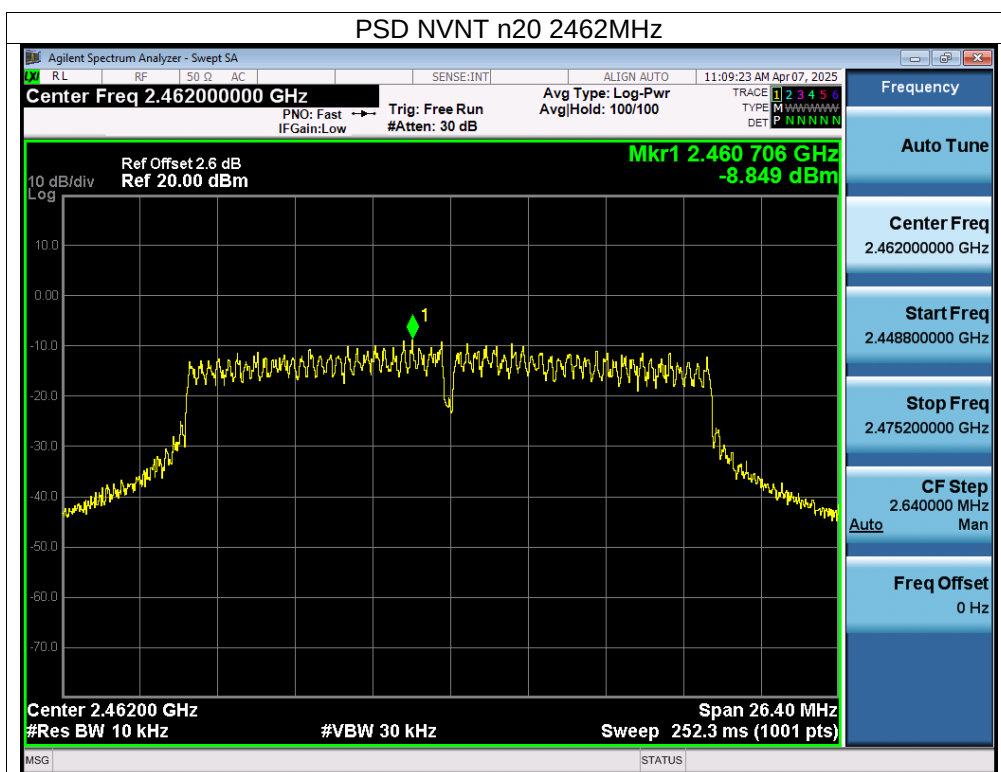


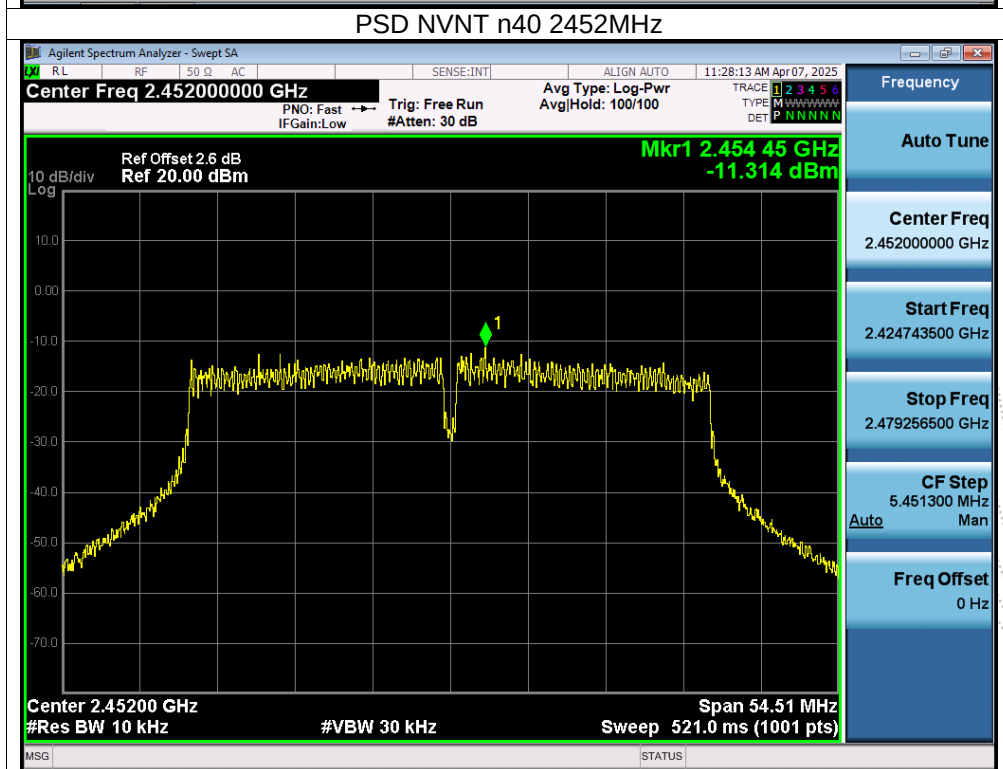
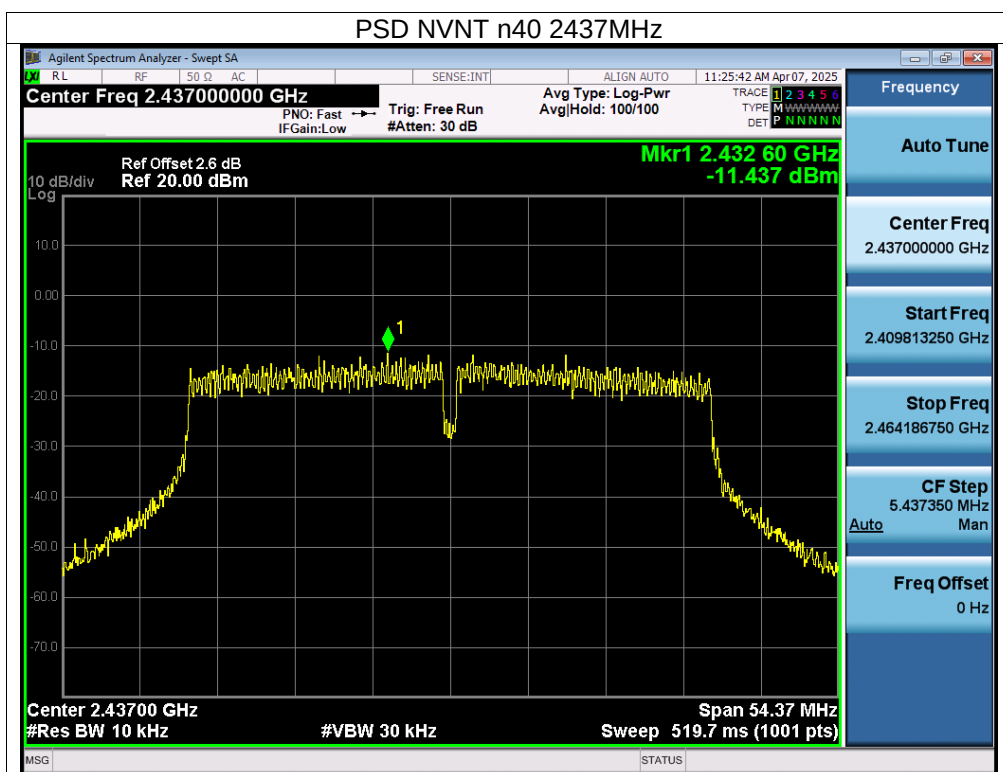


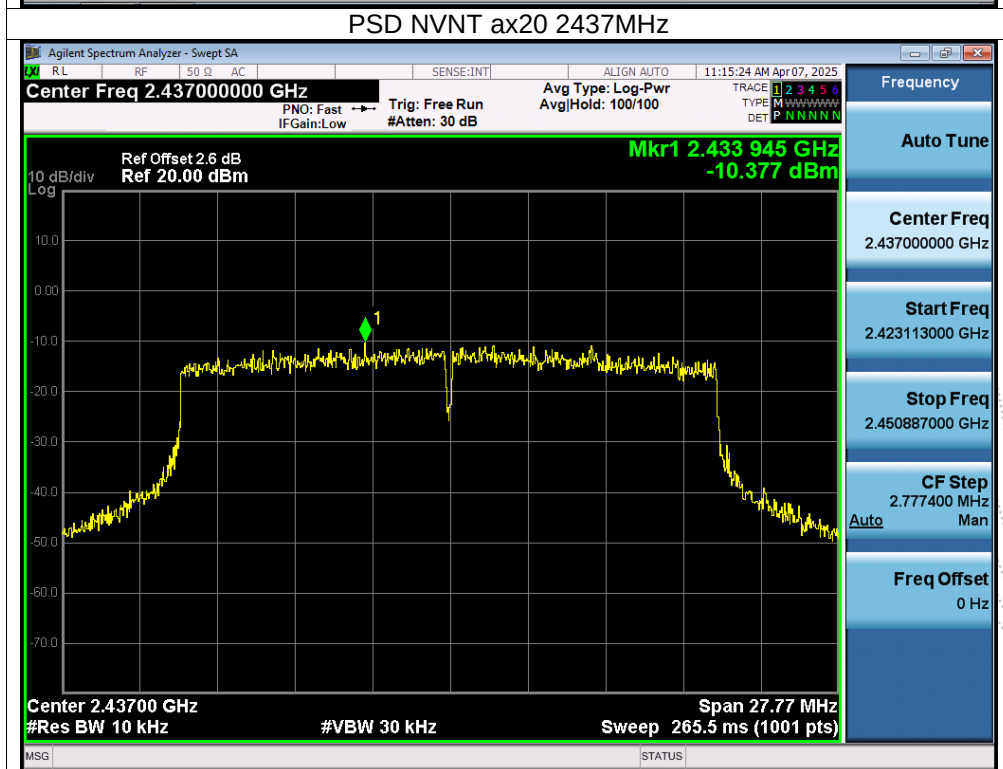
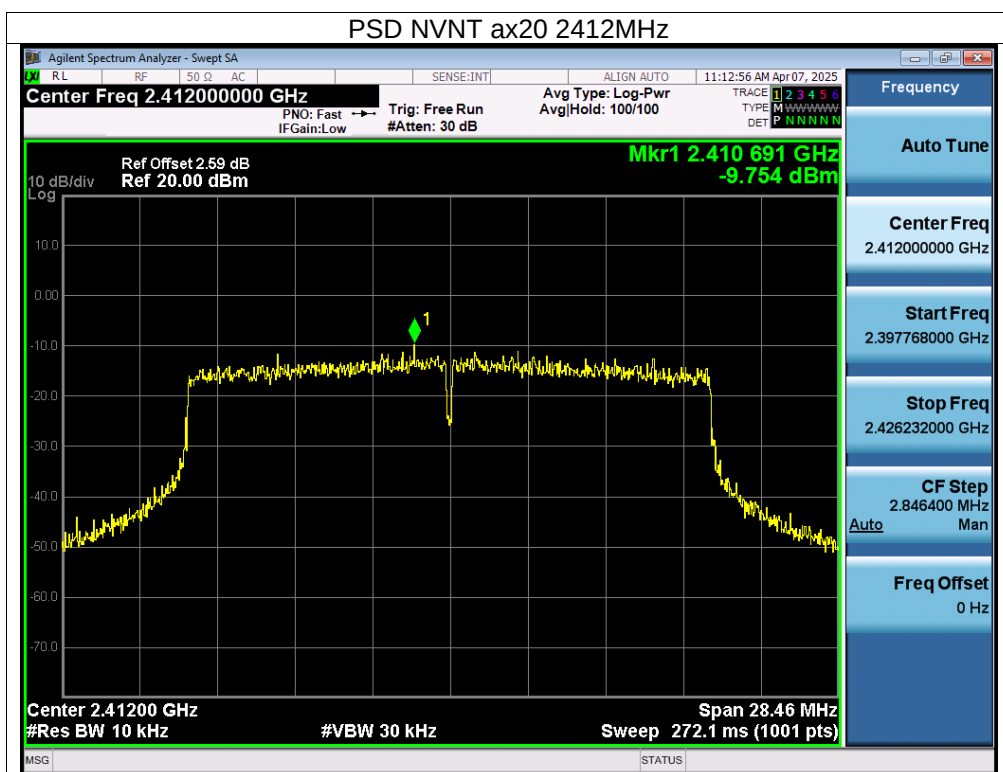


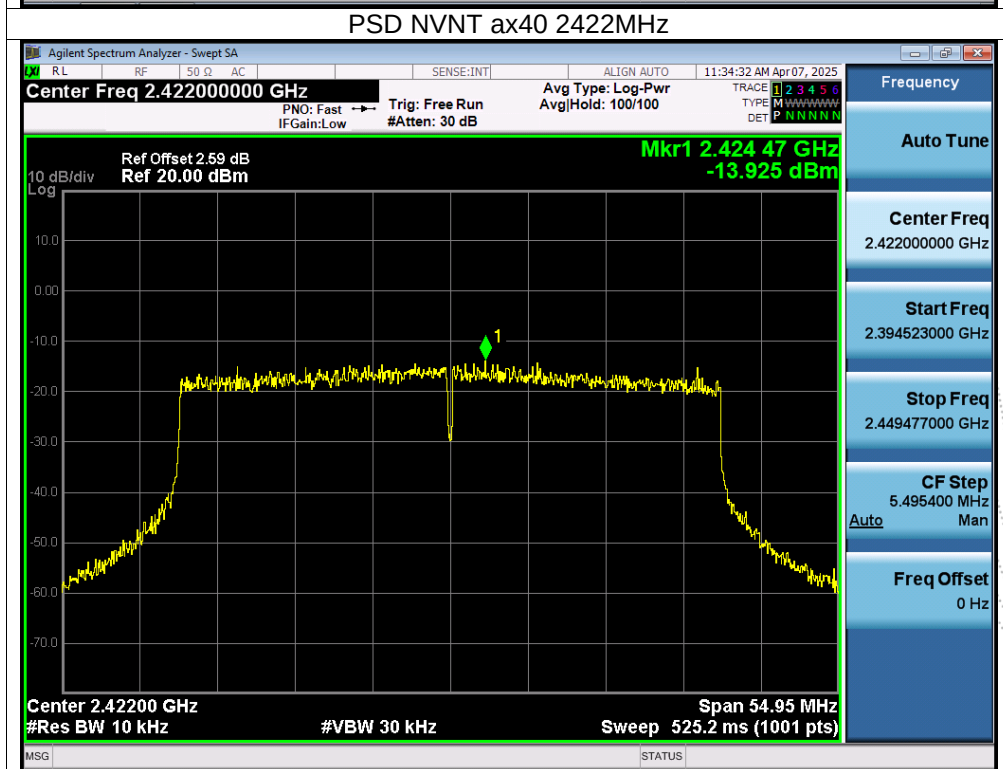
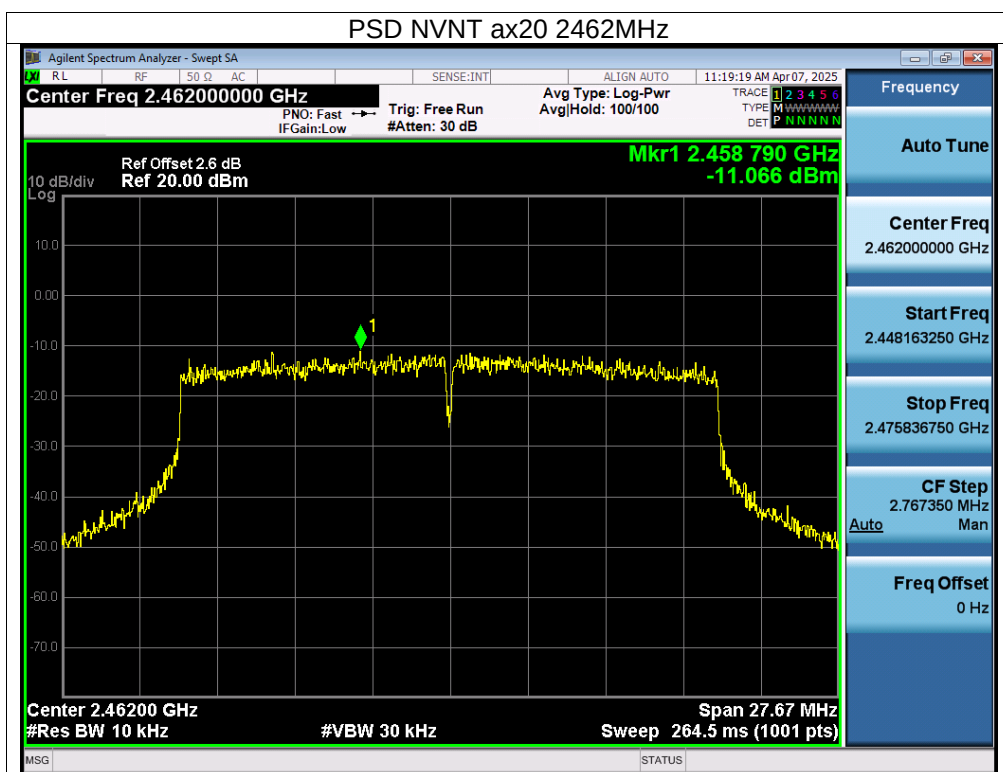
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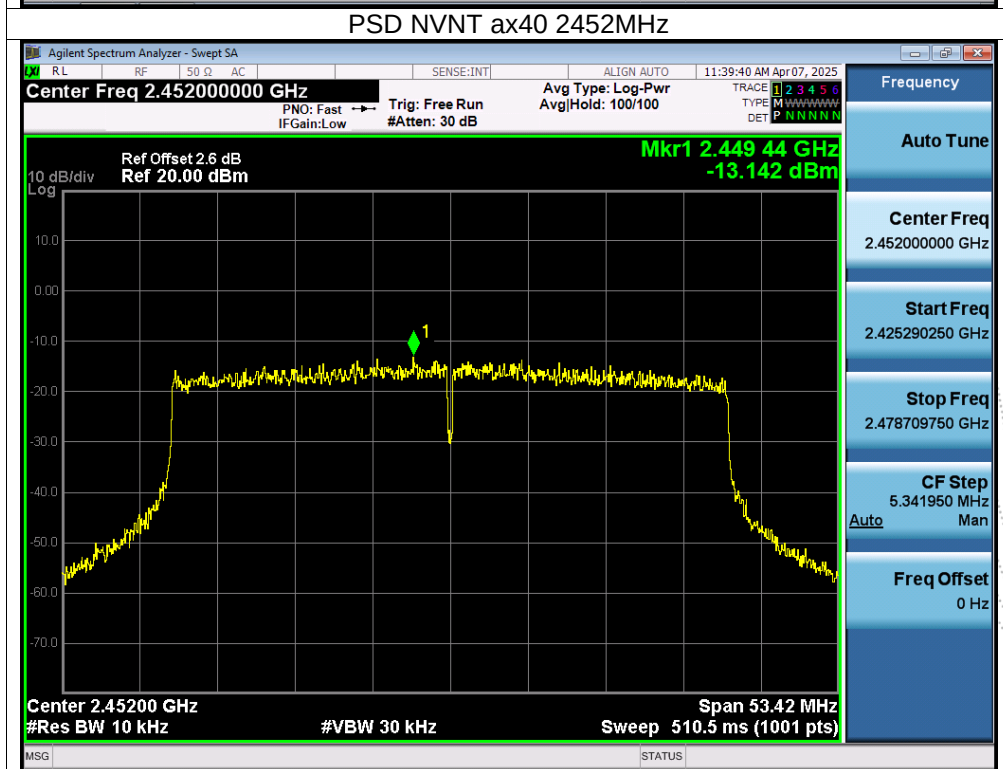
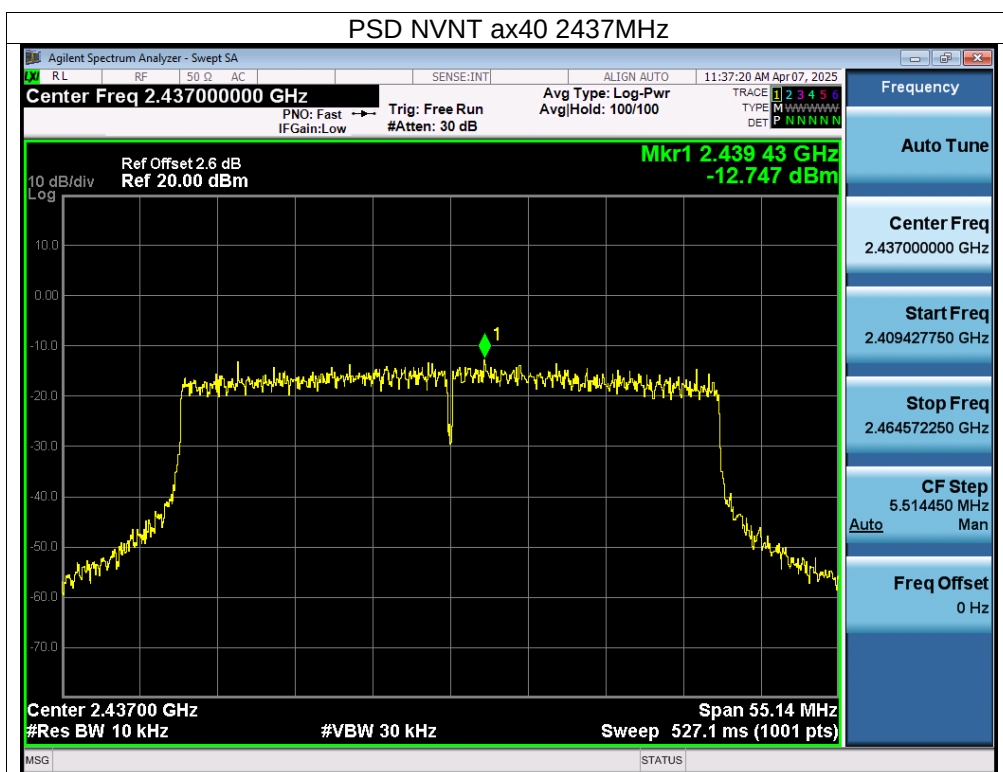








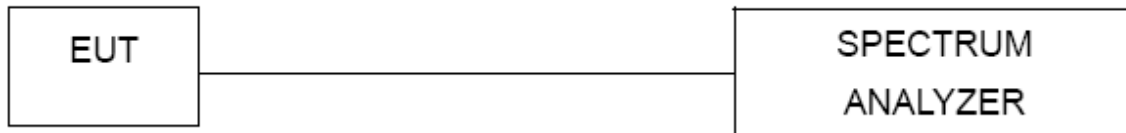




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10. Bandwidth Test

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	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

10.3 Test Procedure

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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

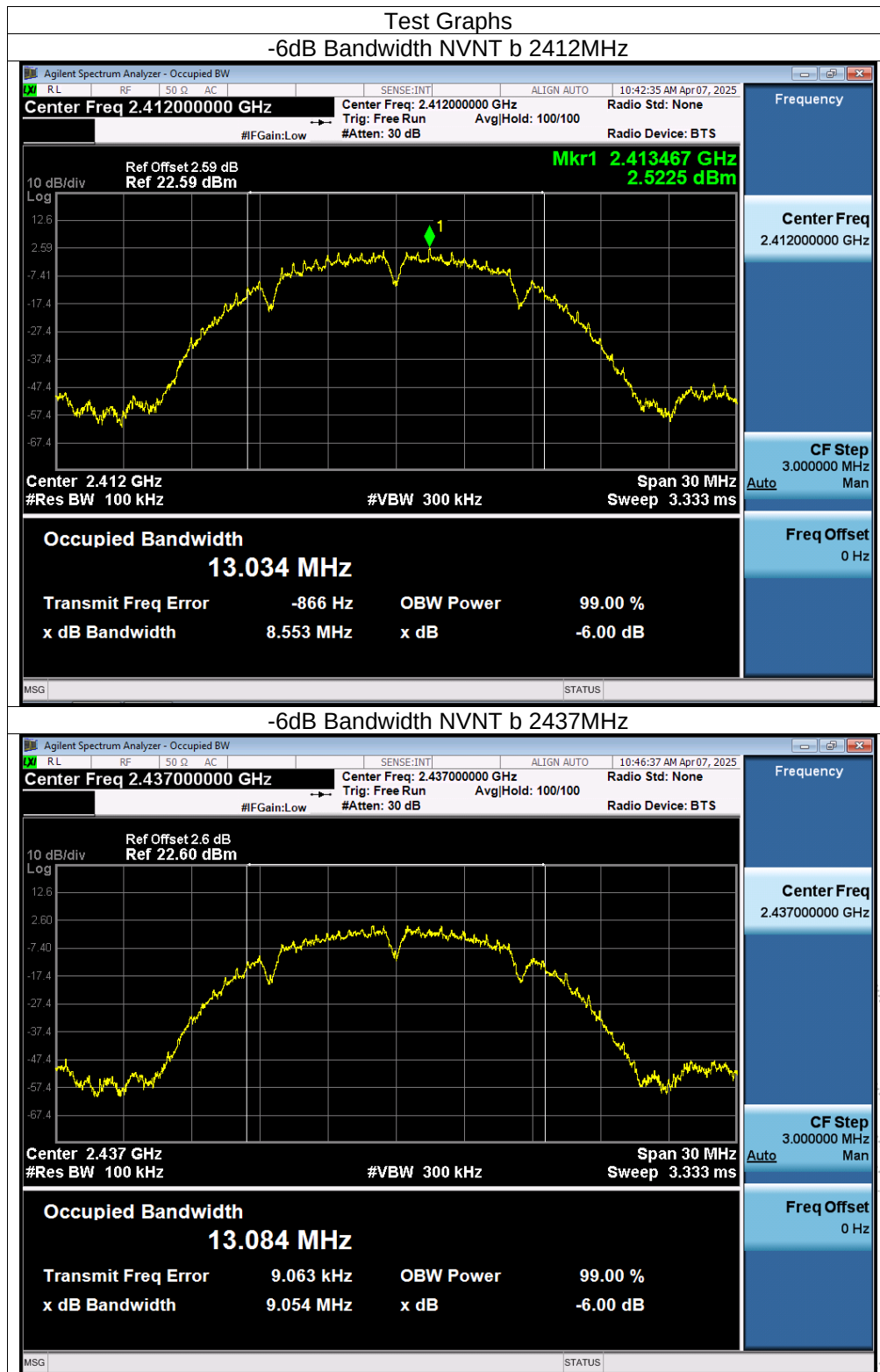
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

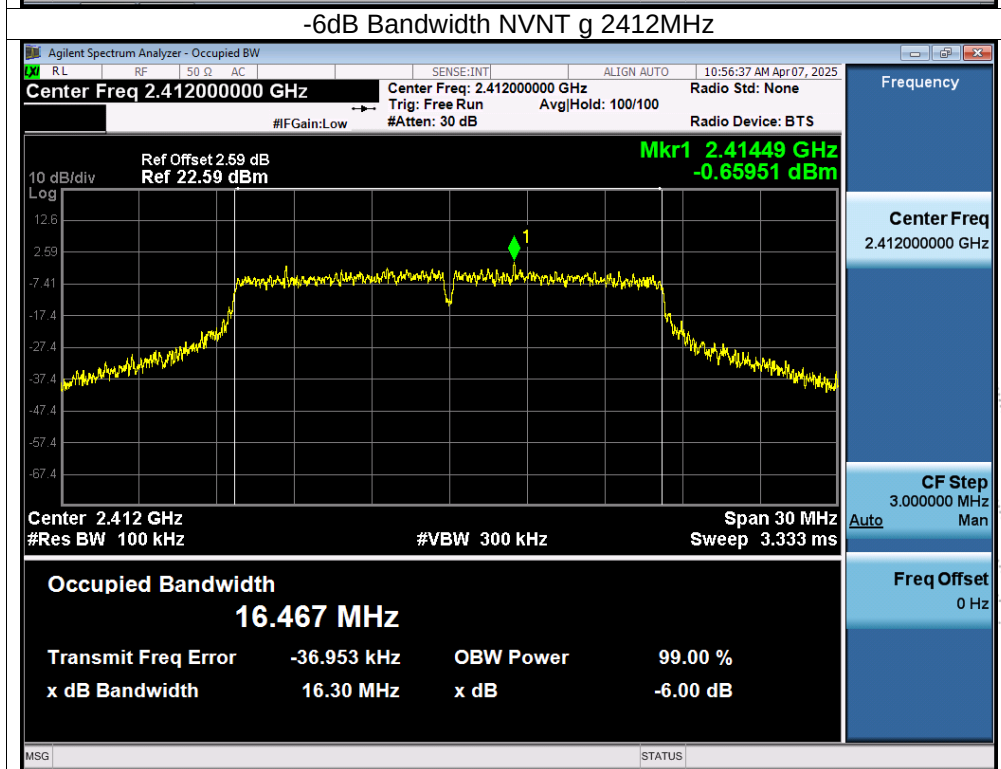
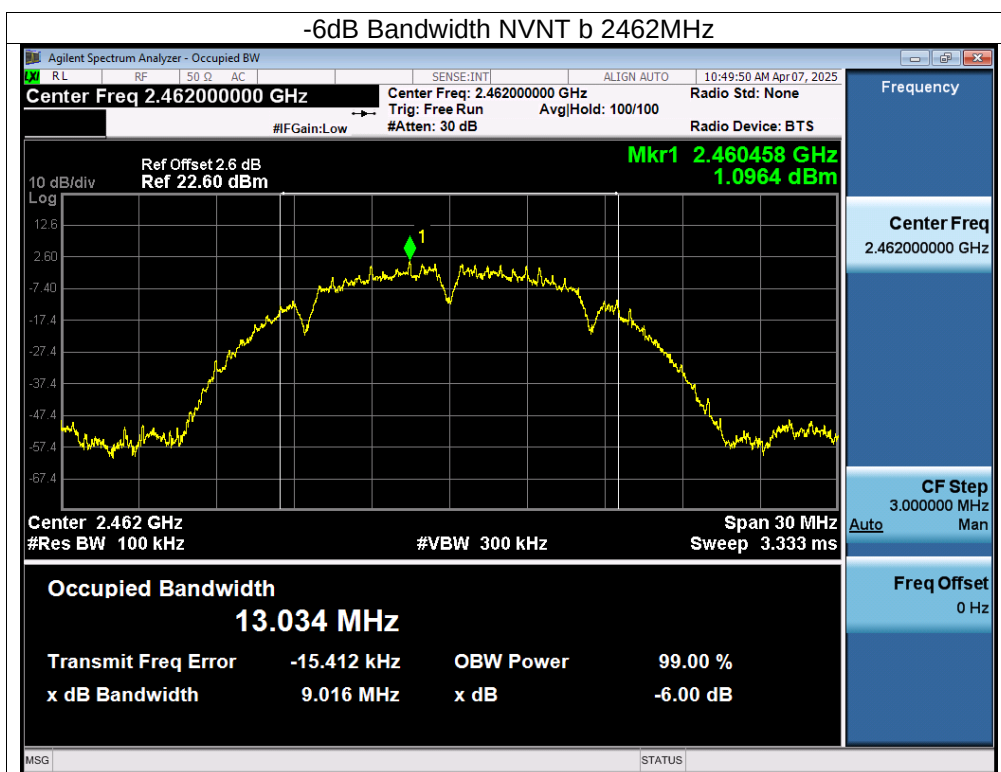
Note: Power Spectral Density(dBm)=Reading+Cable Loss

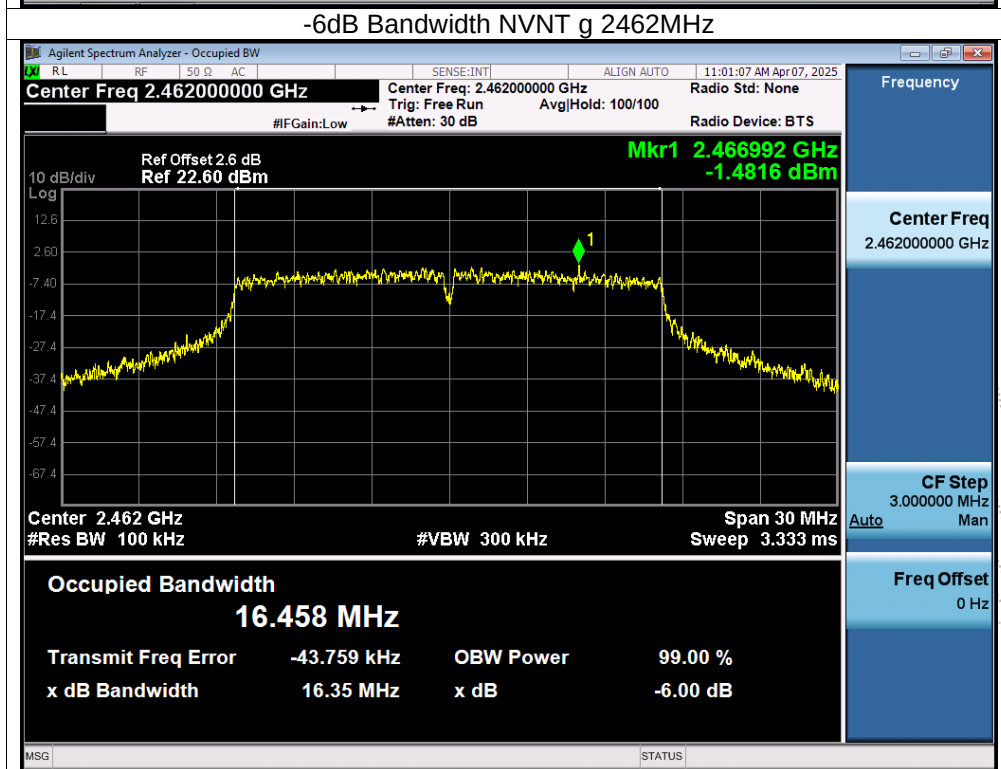
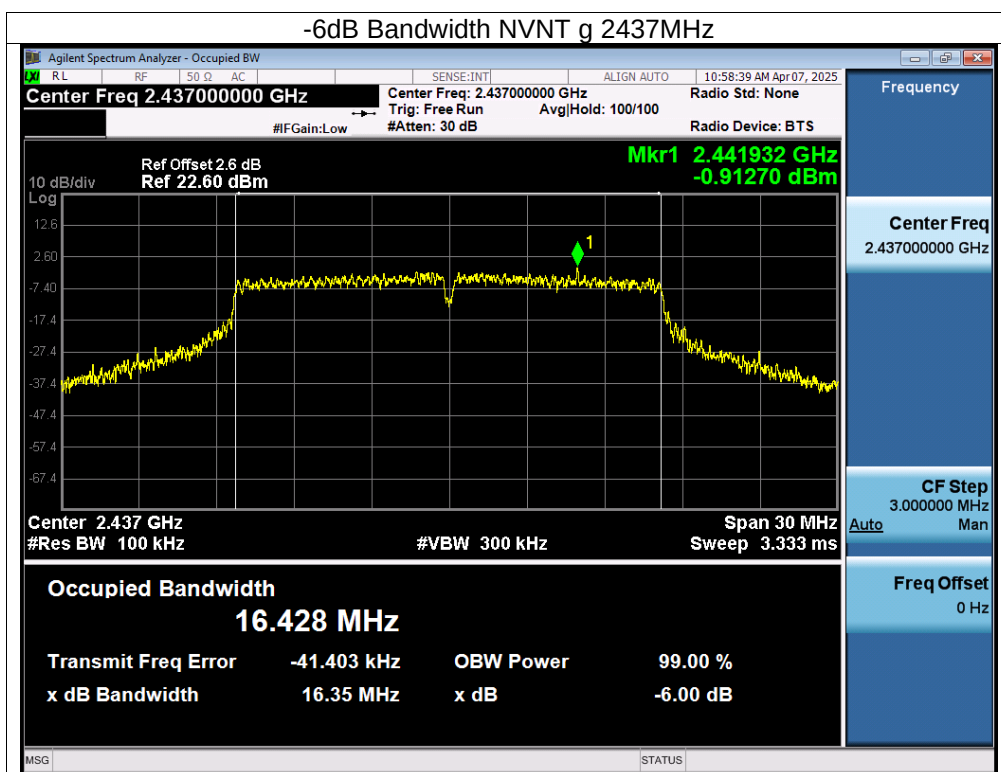
10.5 Test Result

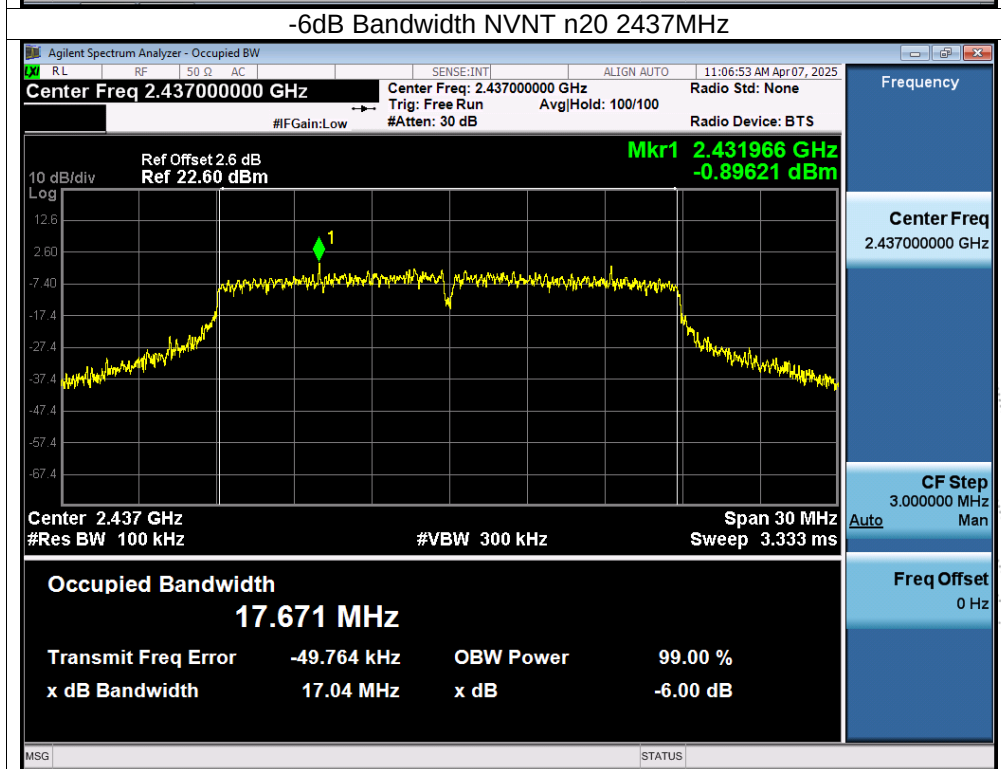
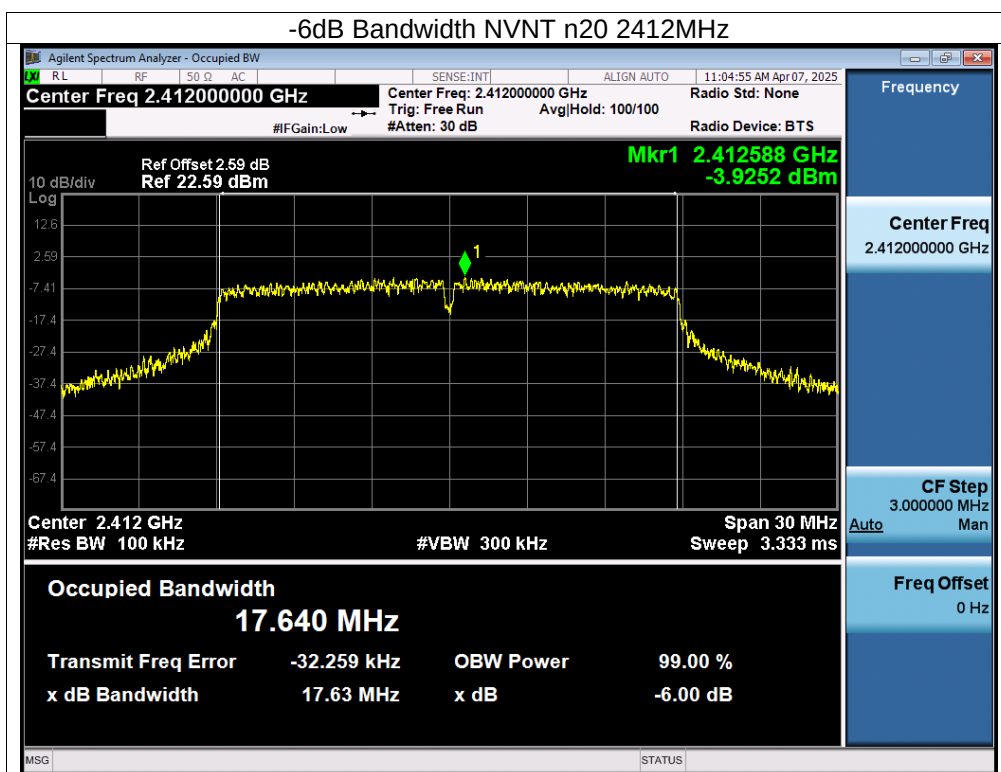
Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	AC 120V/60Hz

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	8.553	0.5	Pass
NVNT	b	2437	9.054	0.5	Pass
NVNT	b	2462	9.016	0.5	Pass
NVNT	g	2412	16.303	0.5	Pass
NVNT	g	2437	16.355	0.5	Pass
NVNT	g	2462	16.355	0.5	Pass
NVNT	n20	2412	17.625	0.5	Pass
NVNT	n20	2437	17.038	0.5	Pass
NVNT	n20	2462	17.6	0.5	Pass
NVNT	n40	2422	36.066	0.5	Pass
NVNT	n40	2437	36.249	0.5	Pass
NVNT	n40	2452	36.342	0.5	Pass
NVNT	ax20	2412	18.976	0.5	Pass
NVNT	ax20	2437	18.516	0.5	Pass
NVNT	ax20	2462	18.449	0.5	Pass
NVNT	ax40	2422	36.636	0.5	Pass
NVNT	ax40	2437	36.763	0.5	Pass
NVNT	ax40	2452	35.613	0.5	Pass

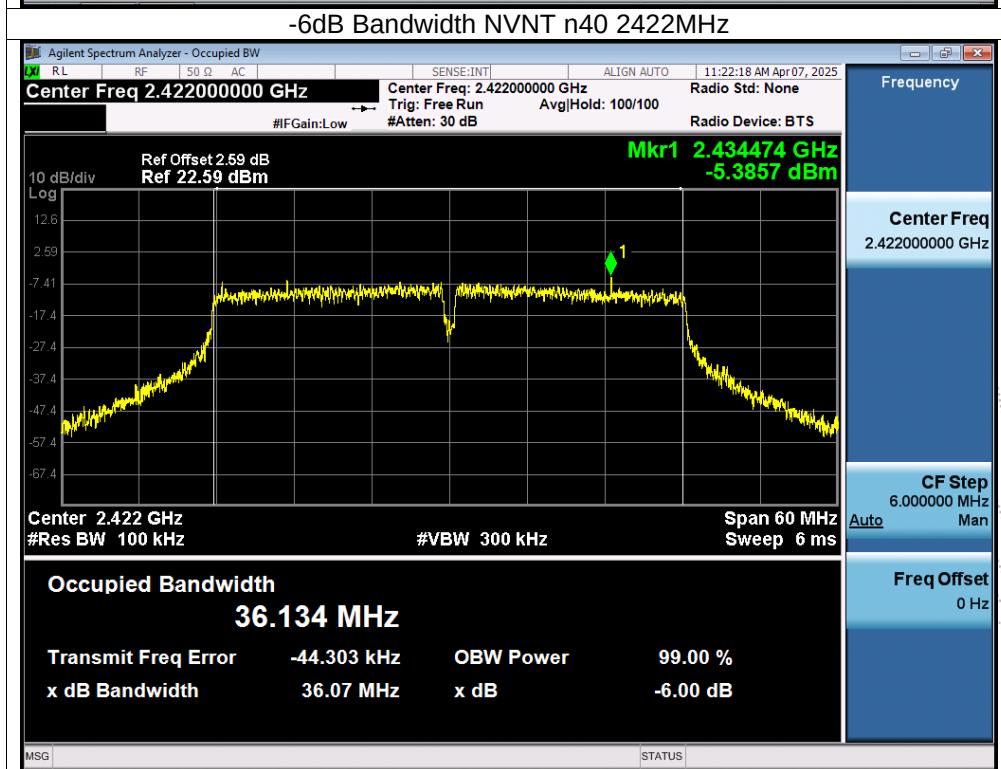
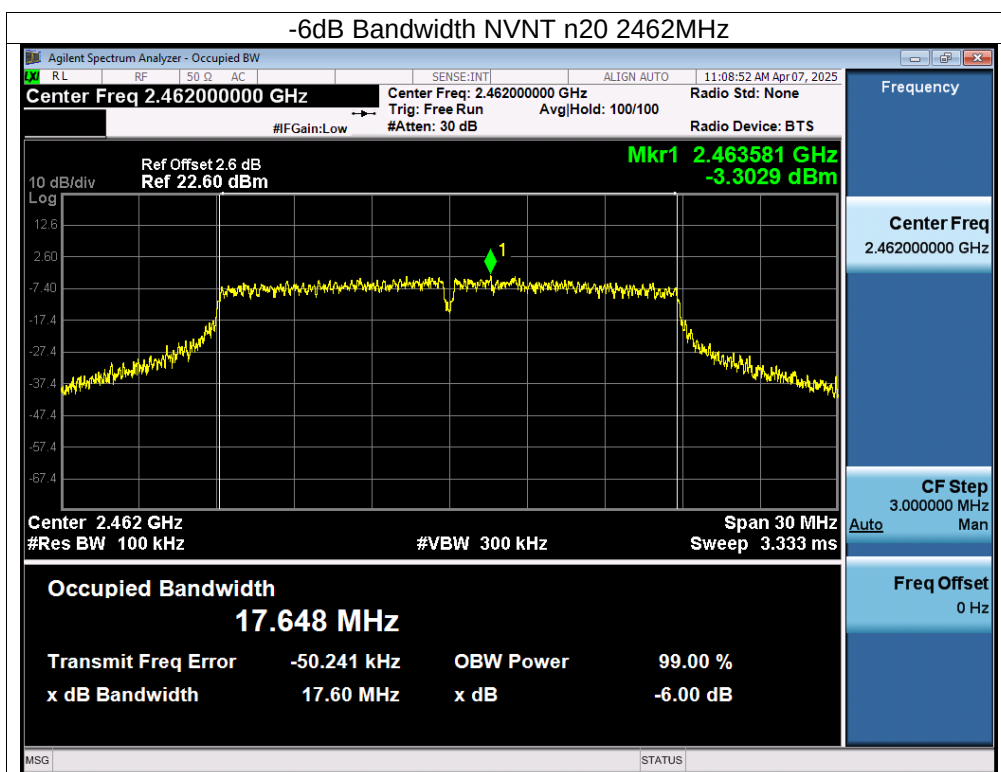


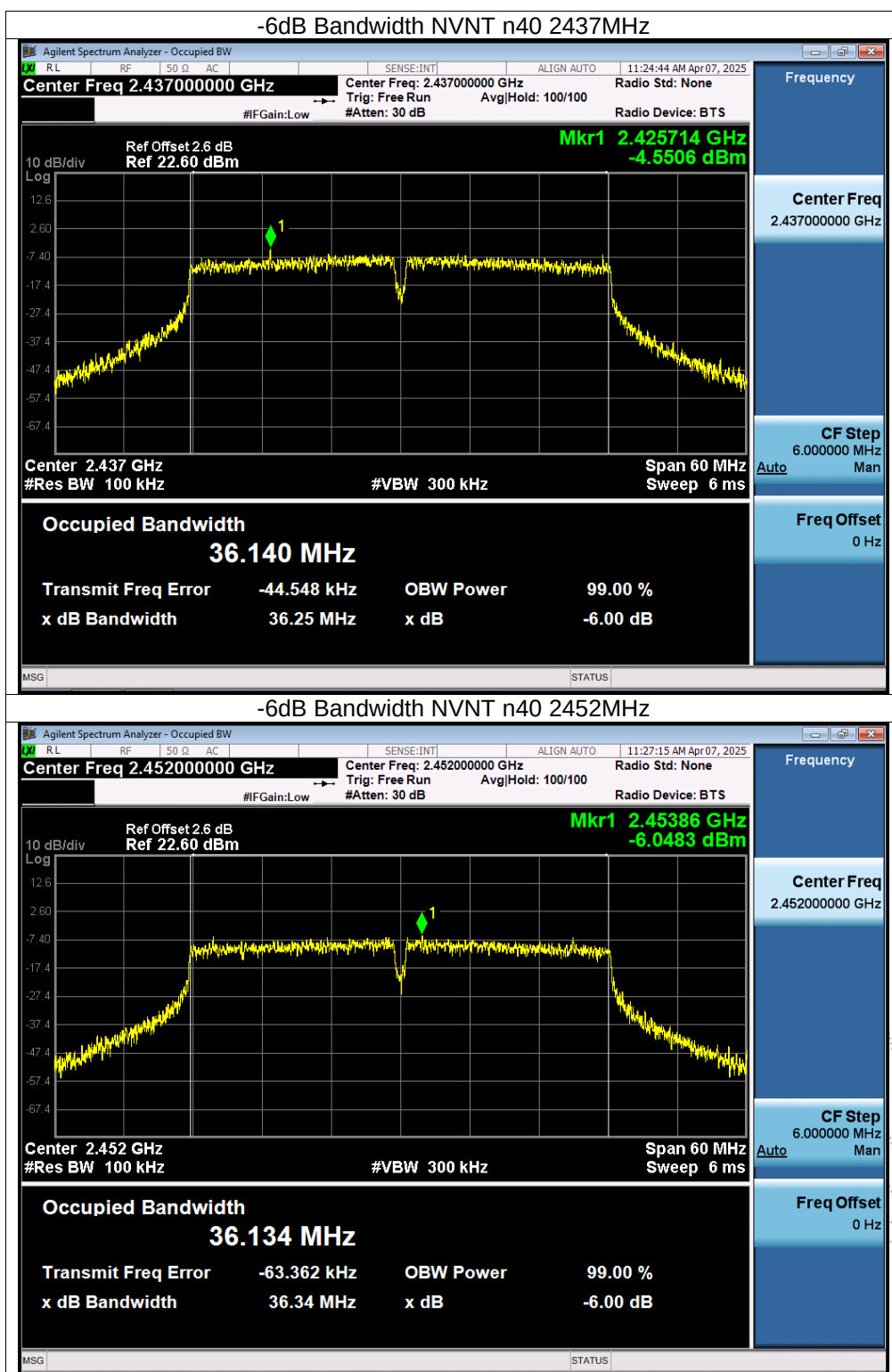


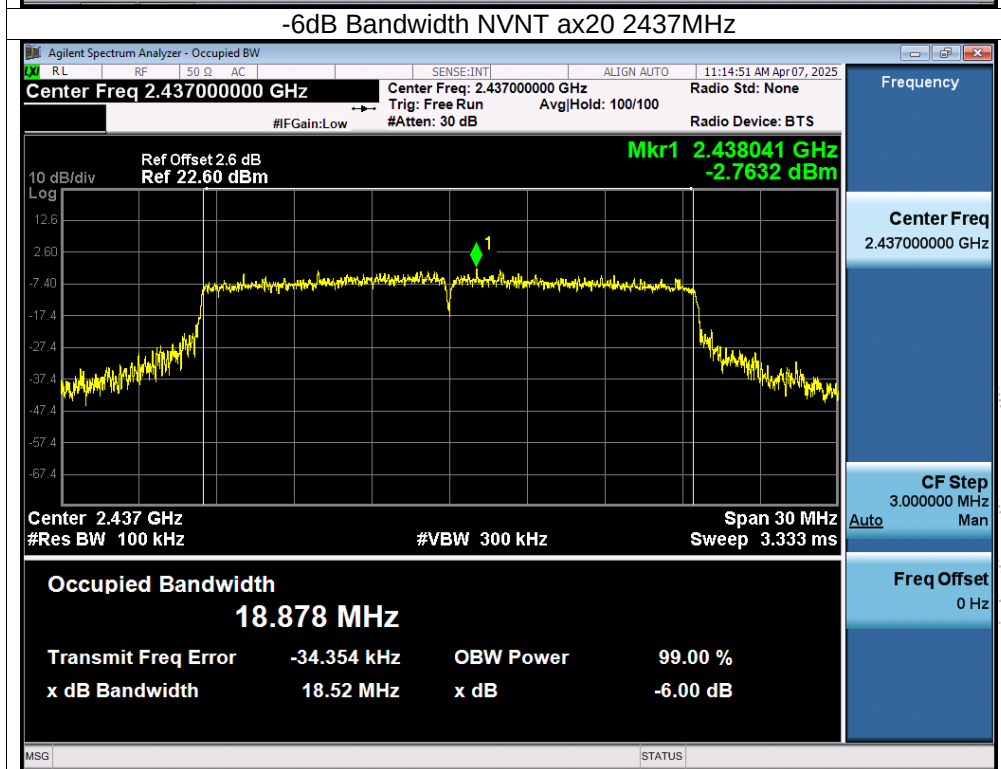
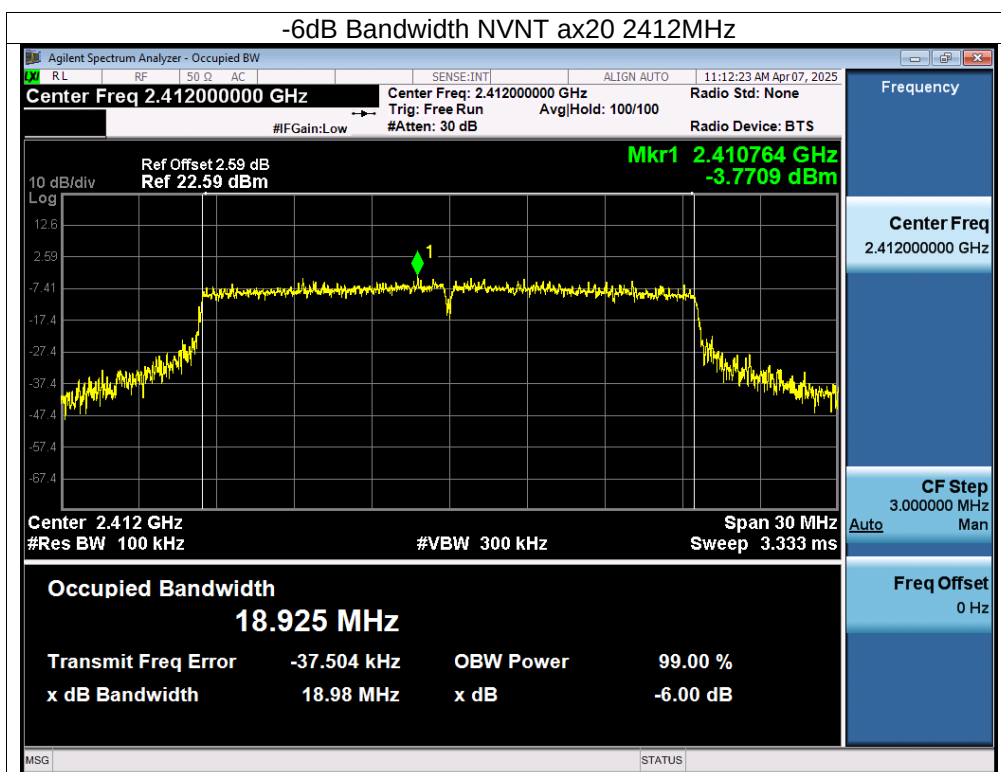


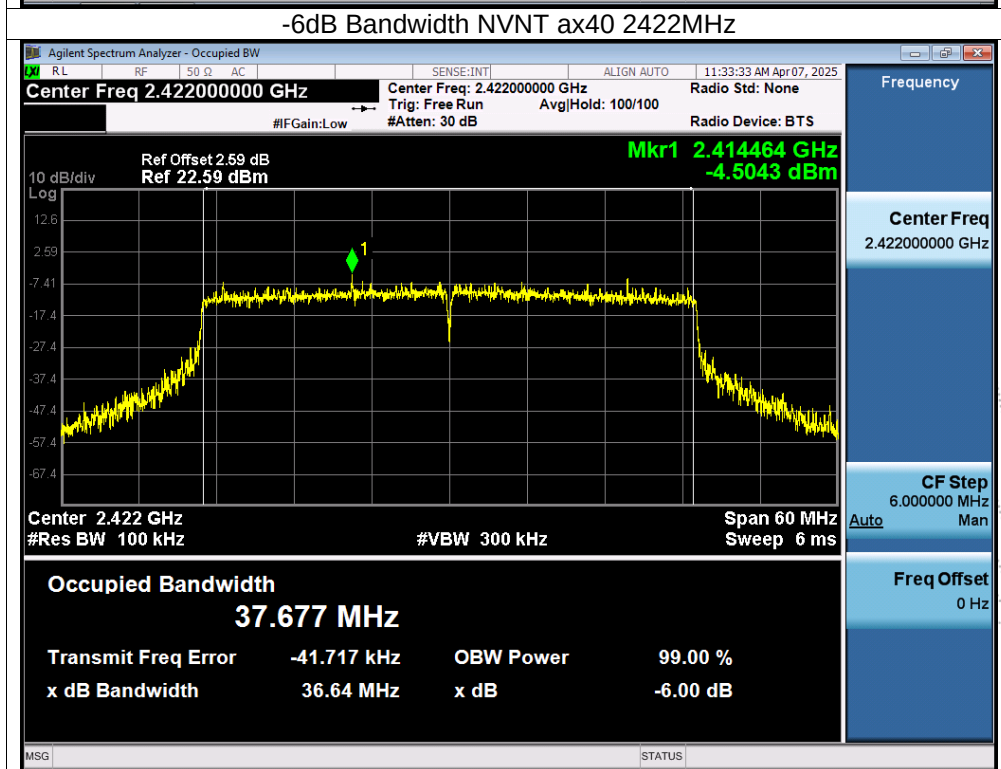
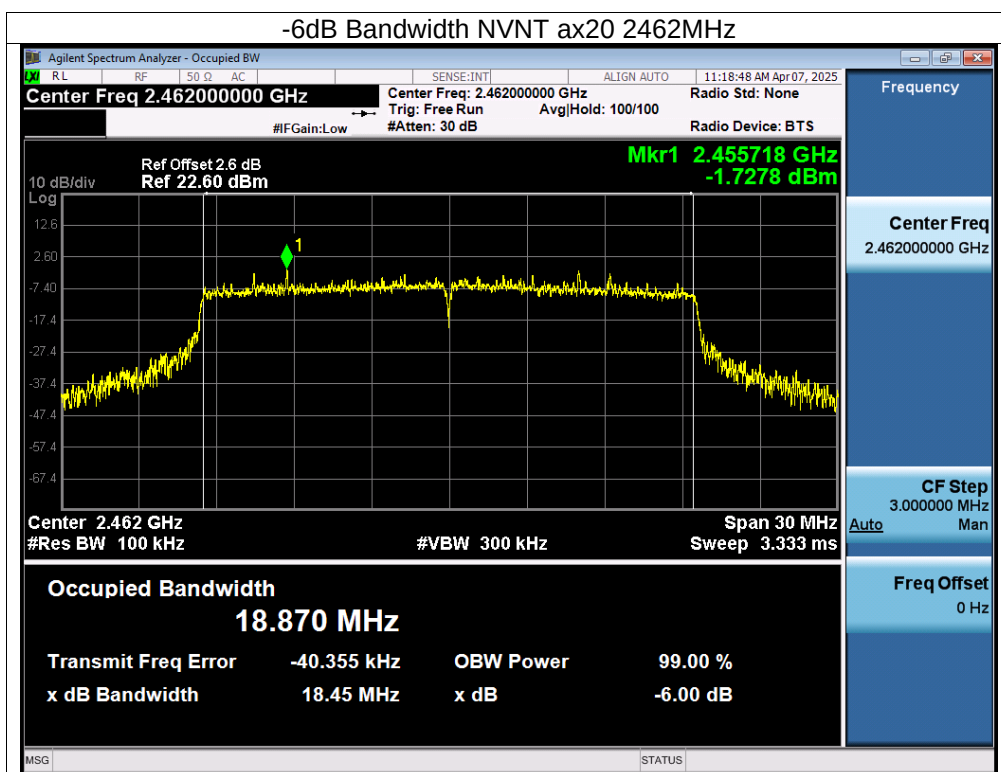


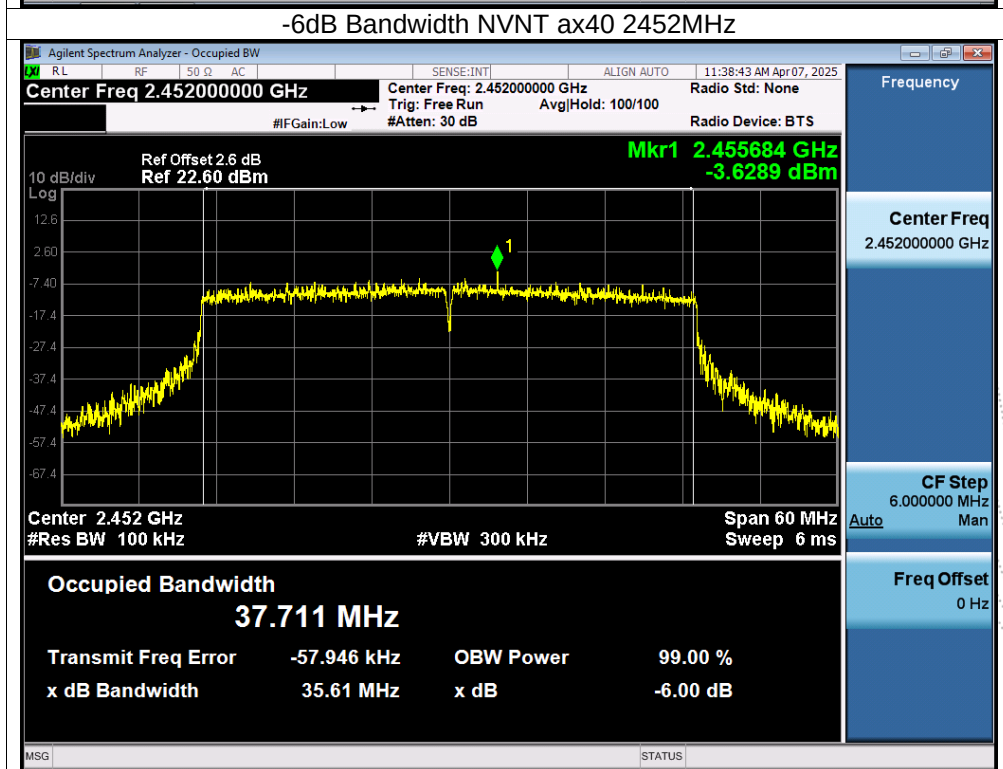
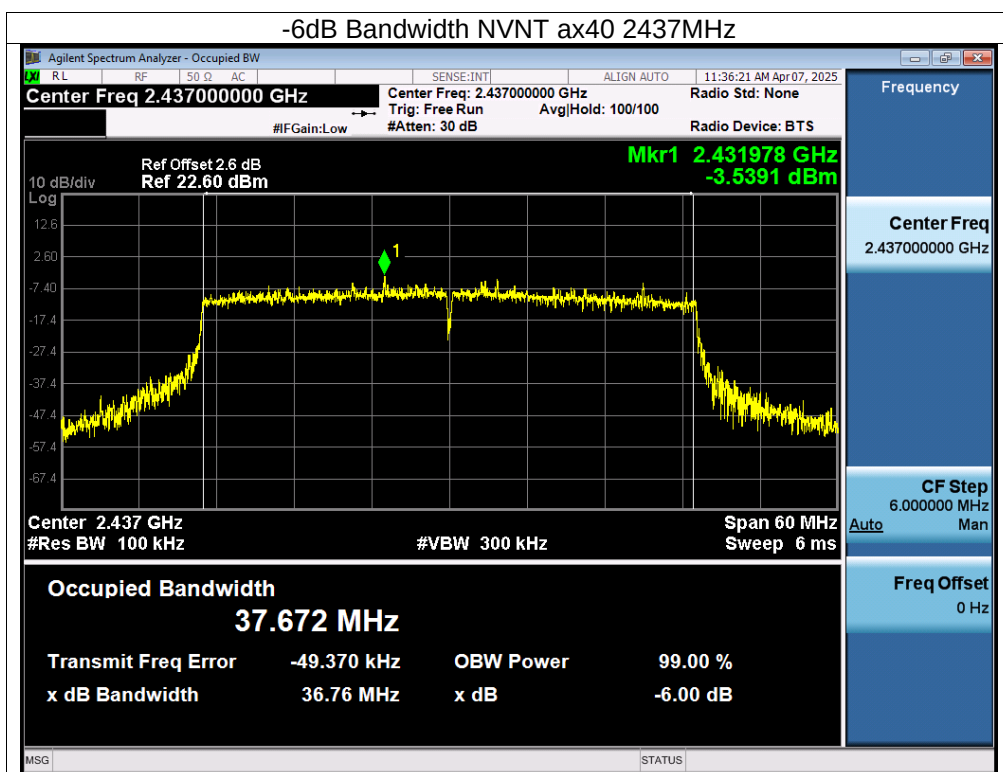
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11. Peak Output Power Test

11.1 Block Diagram Of Test Setup



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

- 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