

NTEK 北测[®]

RADIO TEST REPORT FCC ID: 2BALXNT-T710

Product: Tablet PC Trade Mark: N/A Model No.: NT-T710 Family Model: N/A Report No.: S24102504501002 Issue Date: Nov. 19, 2024

Prepared for

Shenzhen New Yu Technology Co., Ltd.

Zhihuigu Building, Bulong Road, Longhua District, Shenzhen, China.

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China Tel. 0755-2320 0050 Website: http://www.ntek.org.cn





TABLE OF CONTENTS

1 TEST RESULT CERTIFICATION	4
2 SUMMARY OF TEST RESULTS	5
3 FACILITIES AND ACCREDITATIONS	6
 3.1 FACILITIES 3.2 LABORATORY ACCREDITATIONS AND LISTINGS 	
3.3 MEASUREMENT UNCERTAINTY	
4 GENERAL DESCRIPTION OF EUT	
5 DESCRIPTION OF TEST MODES	
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
 6.2 SUPPORT EQUIPMENT 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS 	11
7 TEST REQUIREMENTS	14
7.1 CONDUCTED EMISSIONS TEST	14
7.1.1 Applicable Standard	
7.1.2 Conformance Limit	
7.1.3 Measuring Instruments	
7.1.4 Test Configuration	
7.1.5 Test Procedure	
7.1.0 Test Results 7.2 RADIATED SPURIOUS EMISSION	
7.2.1 Applicable Standard	
7.2.2 Conformance Limit	
7.2.3 Measuring Instruments	
7.2.4 Test Configuration	
7.2.5 Test Procedure	
7.2.6 Test Results	
7.3 6DB BANDWIDTH	
7.3.1 Applicable Standard	
7.3.2 Conformance Limit	
7.3.3 Measuring Instruments	
7.3.4 Test Setup 7.3.5 Test Procedure	
7.3.6 Test Results	
7.4 DUTY CYCLE	
7.4.1 Applicable Standard	
7.4.2 Conformance Limit	
7.4.3 Measuring Instruments	27
7.4.4 Test Setup	
7.4.5 Test Procedure	
7.4.6 Test Results	
7.5 PEAK OUTPUT POWER	
7.5.1 Applicable Standard	
7.5.2 Conformance Limit 7.5.3 Measuring Instruments	
7.5.5 Measuring Instruments 7.5.4 Test Setup	
7.5.5 Test Procedure	
7.5.6 Test Results	

NTEK 北测[®]



	7.6 I	POWER SPECTRAL DENSITY	30
	7.6.1	Applicable Standard	
	7.6.2	Conformance Limit	
	7.6.3	Measuring Instruments	
	7.6.4	Test Setup	
	7.6.5	Test Procedure	
	7.6.6	Test Results	
		CONDUCTED BAND EDGE MEASUREMENT	
	7.7.1	Applicable Standard	
	7.7.2	Conformance Limit	32
	7.7.3	Measuring Instruments	
	7.7.4	Test Setup	
	7.7.5	Test Procedure	
	7.7.6	Test Results	32
	7.8 \$	SPURIOUS RF CONDUCTED EMISSIONS	33
	7.8.1	Conformance Limit	33
	7.8.2	Measuring Instruments	
	7.8.3	Test Setup	
	7.8.4	Test Procedure	33
	7.8.5	Test Results	33
	7.9	ANTENNA APPLICATION	34
	7.9.1	Antenna Requirement	
	7.9.2	Result	34
8	TEST	RESULTS	35
	8.1	I M	25
	8.1.1	Duty Cycle	
	8.1.2	Maximum Conducted Output Power	
	8.1.3	-6dB Bandwidth	
	8.1.4	Occupied Channel Bandwidth	
	8.1.5	Maximum Power Spectral Density Level	
	8.1.6	Band Edge	
	8.1.7	Conducted RF Spurious Emission	
	8.2 2	2M	57
	8.2 2 8.2.1	2M Duty Cycle	
		Duty Cycle	57
	8.2.1		57 60
	8.2.1 8.2.2	Duty Cycle Maximum Conducted Output Power	57 60 63
	8.2.1 8.2.2 8.2.3	Duty Cycle Maximum Conducted Output Power -6dB Bandwidth	57 60 63 66
	8.2.1 8.2.2 8.2.3 8.2.4	Duty Cycle Maximum Conducted Output Power -6dB Bandwidth Occupied Channel Bandwidth Maximum Power Spectral Density Level Band Edge	57 60 63 66 69 72
	8.2.1 8.2.2 8.2.3 8.2.4 8.2.5	Duty Cycle Maximum Conducted Output Power -6dB Bandwidth Occupied Channel Bandwidth Maximum Power Spectral Density Level	57 60 63 66 69 72

NTEK 北测



1 TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen New Yu Technology Co., Ltd.
Address	Zhihuigu Building, Bulong Road,Longhua District,Shenzhen,China.
Manufacturer's Name:	Dongguan Master Information Technology Co.,LTD
Address	No.309,Jienan road,HumenTown,Dongguan City,Guangdong Province,China
Product description	
Product name:	Tablet PC
Trade Mark	N/A
Model name:	NT-T710
Family Model	N/A
Test Sample Number:	S241025045004
Date of Test:	Oct. 30, 2024 ~ Nov. 19, 2024

Measurement Procedure Used:

APPLICABLE STANDARDS		
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT	
FCC 47 CFR Part 2, Subpart J		
FCC 47 CFR Part 15, Subpart C	Complied	
ANSI C63.10-2013		
KDB 558074 D01 15.247 Meas Guidance v05r02		

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Prepared : Gavan Zhang By: Gavan T tlex Li Approved _ (/ By [:] Alex Li (Supervisor) (Project Engineer) (Manager)

NTEK 北测

SUMMARY OF TEST RESULTS 2

R

ilac-M

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

ACCREDITED

Certificate #4298.01

Remark:

 "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
-	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan
	District, Shenzhen, Guangdong, People's Republic of China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB

NTEK 北测



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	Tablet PC		
Trade Mark	N/A		
FCC ID	2BALXNT-T710		
Model No.	NT-T710		
Family Model	N/A		
Model Difference	N/A		
Operating Frequency	2402MHz~2480MHz		
Modulation	GFSK		
Number of Channels	40 Channels		
Antenna Type	PIFA Antenna		
Antenna Gain	3.16 dBi		
Adapter	Model: BCT171EU Input: 100-240V~50/60Hz 0.6A Output: 5V3A or 9V2.23A or 12V1.67A		
Battery	DC 3.85V, 9000mAh, 34.65Wh		
Power supply	DC 3.85V from battery or DC 5V/9V/12V from adapter		
HW Version	XR-636BP-8 MAIN Board PM2		
FW Version	N/A		
SW Version	636DP-8-V12_55F_KXRM19		

Note 1: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

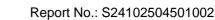




Revision History

Revision mistory					
Report No.	Version	Description	Issued Date		
S24102504501002	Rev.01	Initial issue of report	Nov. 19, 2024		
		I			





5 DESCRIPTION OF TEST MODES

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.

Certificate #4298.01

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps/2Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+kx2MHz k=0 to 39

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Test Cases
Test Item	Data Rate/ Modulation
AC Conducted Emission	Mode 1: normal link mode
	Mode 1: normal link mode
Radiated Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps
Conducted Test	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode(duty cycle =100% during the test)

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

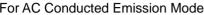
3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

4. EUT built-in battery-powered, the battery is fully-charged.



SETUP OF EQUIPMENT UNDER TEST 6

BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM 6.1



For AC Conducted E	mission Mode					
	EUT	C-1 AE-1 Adapte	AC PL	LUG —		
For Radiated Test Ca	ases					
	EUT					
For Conducted Test (Cases					
Measurement Instrument	C-2 EU	T				
Note: The temporar tests and this tempo	y antenna conn orary antenna co	nector is soldered connector is listed i	on the PCB boa n the equipment	ard in order list.	to perform con	ducted

ACCREDITED

Certificate #4298.01





6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	BCT171EU	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

NTEK 北测



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4440A	MY41000130	2024.03.12	2025.03.11	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.26	2025.04.25	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.26	2025.04.25	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.03.12	2025.03.11	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	2023.01.12	2026.01.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2025.11.06	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2024.01.23	2025.01.22	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2023.11.03	2026.11.02	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2024.04.25	2025.04.24	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2023.03.26	2026.03.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2024.03.12	2025.03.11	1 year
2	LISN	R&S	ENV216	101313	2024.03.12	2025.03.11	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.03.12	2025.03.11	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

ACCREL

Certificate #4298.01

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest
4	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

NTEK 北测[®]



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit			
Frequency(IVILIZ)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

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

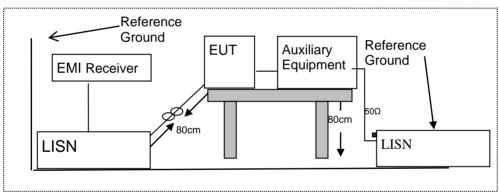
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.





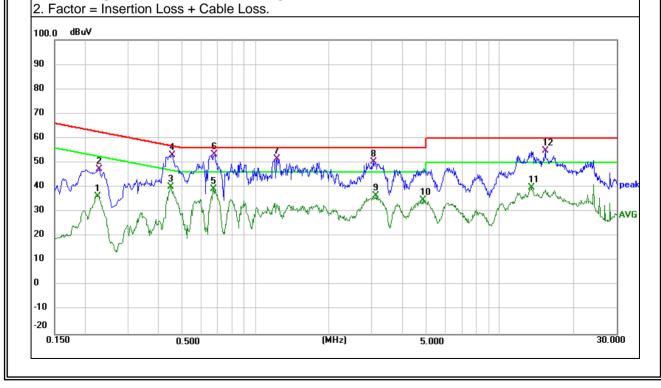
7.1.6 Test Results

EUT:	Tablet PC	Model Name :	NT-T710
Temperature:	22 °C	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 9V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2260	26.17	10.16	36.33	52.60	-16.27	AVG
0.2280	37.08	10.16	47.24	62.52	-15.28	QP
0.4500	29.68	10.59	40.27	46.88	-6.61	AVG
0.4540	42.42	10.59	53.01	56.80	-3.79	QP
0.6740	28.32	11.05	39.37	46.00	-6.63	AVG
0.6780	42.13	11.07	53.20	56.00	-2.80	QP
1.2260	39.20	12.21	51.41	56.00	-4.59	QP
3.0300	40.48	9.88	50.36	56.00	-5.64	QP
3.1180	26.64	9.89	36.53	46.00	-9.47	AVG
4.8580	24.58	10.08	34.66	46.00	-11.34	AVG
13.4380	41.67	-1.90	39.77	50.00	-10.23	AVG
15.3180	43.04	11.91	54.95	60.00	-5.05	QP

Remark:

1. All readings are Quasi-Peak and Average values.







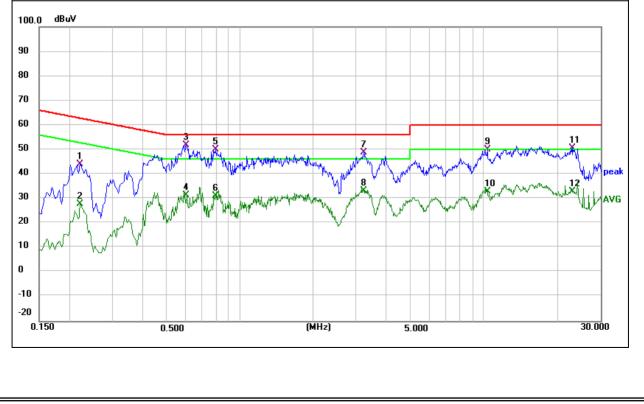
EUT:	Tablet PC	Model Name :	NT-T710
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 9V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorile
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2220	34.62	9.56	44.18	62.74	-18.56	QP
0.2220	18.32	9.56	27.88	52.74	-24.86	AVG
0.6020	41.61	10.17	51.78	56.00	-4.22	QP
0.6020	21.17	10.17	31.34	46.00	-14.66	AVG
0.7940	39.39	10.58	49.97	56.00	-6.03	QP
0.7940	20.70	10.58	31.28	46.00	-14.72	AVG
3.2100	39.68	9.16	48.84	56.00	-7.16	QP
3.2100	24.04	9.16	33.20	46.00	-12.80	AVG
10.3180	50.35	-0.18	50.17	60.00	-9.83	QP
10.3180	33.12	-0.18	32.94	50.00	-17.06	AVG
23.0820	38.22	12.32	50.54	60.00	-9.46	QP
23.0820	20.57	12.32	32.89	50.00	-17.11	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.







7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

MHz	MHz	GHz					
16.42-16.423	399.9-410	4.5-5.15					
16.69475-16.69525	608-614	5.35-5.46					
16.80425-16.80475	960-1240	7.25-7.75					
25.5-25.67	1300-1427	8.025-8.5					
37.5-38.25	1435-1626.5	9.0-9.2					
73-74.6	1645.5-1646.5	9.3-9.5					
74.8-75.2	1660-1710	10.6-12.7					
123-138	2200-2300	14.47-14.5					
149.9-150.05	2310-2390	15.35-16.2					
156.52475-156.52525	2483.5-2500	17.7-21.4					
156.7-156.9	2690-2900	22.01-23.12					
162.0125-167.17	3260-3267	23.6-24.0					
167.72-173.2	3332-3339	31.2-31.8					
240-285	3345.8-3358	36.43-36.5					
322-335.4	3600-4400	(2)					
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358					

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.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/	′m) (at 3M)
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

NTEK 北测

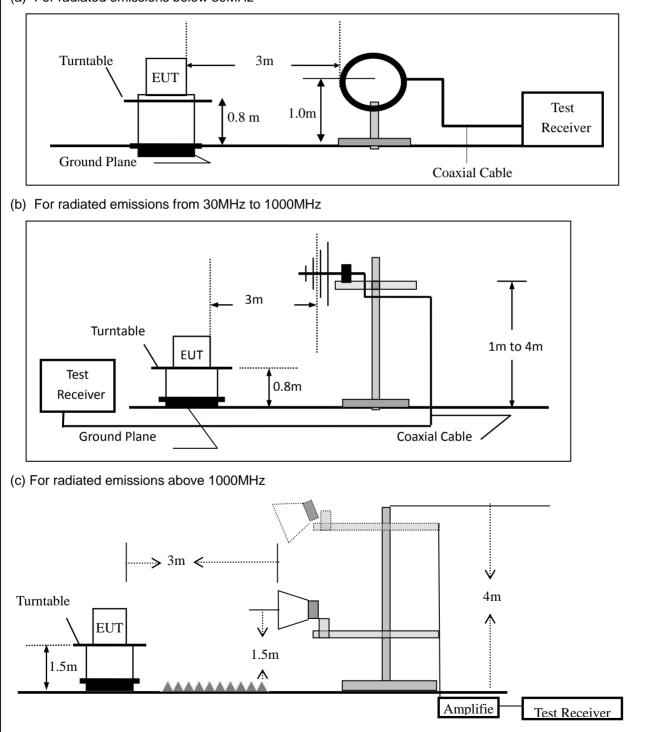


7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz







7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

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



During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Certificate #4298.01

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

	Spurious	Emission	below	30MHz	(9KHz to 30MHz)
--	----------	----------	-------	-------	-----------------

EUT:	Tablet PC	Model No.:	NT-T710
Temperature:	20 ℃	Relative Humidity:	48%
Lest Mode.	Mode1/Mode2/Mode3/ Mode4	Test By:	Gavan Zhang

Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over(dB)		
(MHz)	H/V	PK ÀV Í		PK AV		PK	AV	

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below:

ACCRED

Certificate #4298.01

ilac.

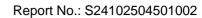
EUT:	Tablet PC	Model Name :	NT-T710
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 3
Test Voltage :	DC 3.85V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.8635	20.02	16.98	37.00	40.00	-3.00	QP
V	56.3947	15.31	19.34	34.65	40.00	-5.35	QP
V	80.6440	22.41	13.82	36.23	40.00	-3.77	QP
V	181.9200	21.21	16.36	37.57	43.50	-5.93	QP
V	390.7225	6.66	22.75	29.41	46.00	-16.59	QP
V	566.6221	8.22	25.73	33.95	46.00	-12.05	QP

Remark:







Polar Frequen		Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtornari
Н	33.9172	9.18	17.09	26.27	40.00	-13.73	QP
Н	82.3588	17.39	13.91	31.30	40.00	-8.70	QP
Н	159.7844	16.27	15.10	31.37	43.50	-12.13	QP
Η	182.5592	16.36	16.43	32.79	43.50	-10.71	QP
Η	316.5890	9.26	20.81	30.07	46.00	-15.93	QP
H Remark	684.7453	7.12	28.09	35.21	46.00	-10.79	QP
	n Level= Meter BuV/m						
70							
60							
50							
40			2			6	wentender
30 20	the destand of the second s		and the second second	Un Marken Marine Marine and	5 and There required and the All	per al de la companya	
10							
0.0 30.000	60	.00	(MHz)	300.00		1000.000

ACCREDITED

Certificate #4298.01





Spurious Emission Above 1GHz (1GHz to EUT: Tablet PC						NT-T710				
Temperatu	ure:	20 ℃			Relative Humidity: 48%					
Test Mode		Mode2/M	ode3/Mode) 4	Tes	st By:		Gavan Zhan	a	
		L		I					5	
Frequency	Read Level	Cable loss	Antenna Factor	Pream Facto		Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	,	(dBµV/m)	(dBµV/r	m) (dB)		
			Low	Channel	(240	02 MHz)(GFSł	K)Above	1G	<u>.</u>	<u>.</u>
4804	69.70	5.21	35.59	44.30	0	66.20	74.00	-7.80	Pk	Vertical
4804	48.76	5.21	35.59	44.30	0	45.26	54.00) -8.74	AV	Vertical
7206	69.81	6.48	36.27	44.60	0	67.96	74.00	-6.04	Pk	Vertical
7206	50.22	6.48	36.27	44.60	0	48.37	54.00	-5.63	AV	Vertical
4804	70.33	5.21	35.55	44.30	0	66.79	74.00) -7.21	Pk	Horizontal
4804	48.14	5.21	35.55	44.30	0	44.60	54.00) -9.40	AV	Horizontal
7206	69.69	6.48	36.27	44.52	2	67.92	74.00	-6.08	Pk	Horizontal
7206	50.60	6.48	36.27	44.52	2	48.83	54.00) -5.17	AV	Horizontal
				Channel	(244	0 MHz)(GFSk	<)Above	1G	<u> </u>	
4880	68.64	5.21	35.66	44.20		65.31	74.00		Pk	Vertical
4880	47.50	5.21	35.66	44.20	-	44.17	54.00		AV	Vertical
7320	68.14	7.10	36.50	44.43		67.31	74.00		Pk	Vertical
7320	50.55	7.10	36.50	44.43		49.72	54.00		AV	Vertical
4880	68.34	5.21	35.66	44.20		65.01	74.00		Pk	Horizontal
4880	47.58	5.21	35.66	44.20	0	44.25	54.00) -9.75	AV	Horizontal
7320	69.41	7.10	36.50	44.43	3	68.58	74.00) -5.42	Pk	Horizontal
7320	49.69	7.10	36.50	44.43	3	48.86	54.00	-5.14	AV	Horizontal
		. <u>.</u>	High	Channel	(248	80 MHz)(GFSł	K) Above	e 1G	•	
4960	69.74	5.21	35.52	44.2	1	66.26	74.00) -7.74	Pk	Vertical
4960	47.16	5.21	35.52	44.2	1	43.68	54.00) -10.32	AV	Vertical
7440	68.56	7.10	36.53	44.60	0	67.59	74.00) -6.41	Pk	Vertical
7440	45.26	7.10	36.53	44.60	0	44.29	54.00) -9.71	AV	Vertical
4960	68.79	5.21	35.52	44.2	1	65.31	74.00	-8.69	Pk	Horizontal
4960	45.74	5.21	35.52	44.2	1	42.26	54.00) -11.74	AV	Horizontal
7440	69.27	7.10	36.53	44.60	0	68.30	74.00) -5.70	Pk	Horizontal
7440	48.73	7.10	36.53	44.60	0	47.76	54.00) -6.24	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst





UT:	Tablet PC			Mode	I No.:	N.	NT-T710			
emperature:	20 ℃			Relat	ive Humidit	y: 48	48%			
est Mode:	Mode2/	Mode4		Test I	Зу:	G	avan Zhang			
_	Meter	Cable	Antenna	Preamp	Emission					
Frequency	Reading	Loss	Factor	Factor	Level	Limit	s Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/	′m) (dB)	Туре		
				1Mbp	s(GFSK)					
2310.00	69.49	2.97	27.80	43.80	56.46	74	-17.54	Pk	Horizonta	
2310.00	48.40	2.97	27.80	43.80	35.37	54	-18.63	AV	Horizonta	
2310.00	68.57	2.97	27.80	43.80	55.54	74	-18.46	Pk	Vertical	
2310.00	47.34	2.97	27.80	43.80	34.31	54	-19.69	AV	Vertical	
2390.00	70.43	3.14	27.21	43.80	56.98	74	-17.02	Pk	Vertical	
2390.00	46.31	3.14	27.21	43.80	32.86	54	-21.14	AV	Vertical	
2390.00	70.68	3.14	27.21	43.80	57.23	74	-16.77	Pk	Horizonta	
2390.00	47.93	3.14	27.21	43.80	34.48	54	-19.52	AV	Horizonta	
2483.50	68.90	3.58	27.70	44.00	56.18	74	-17.82	Pk	Vertical	
2483.50	49.63	3.58	27.70	44.00	36.91	54	-17.09	AV	Vertical	
2483.50	69.45	3.58	27.70	44.00	56.73	74	-17.27	Pk	Horizonta	
2483.50	45.13	3.58	27.70	44.00	32.41	54	-21.59	AV	Horizonta	

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst





Spurious	s Emi	ssion	in Restric	ted Band	326	0MHz-	18000MHz					
EUT:		Tablet PC			Model No.: N		NT-T710					
Temperature	20 ℃			Relative Humidity: 48		48%	48%					
Test Mode:		Mode2/ Mode4			Test By: Gava		Gavar	an Zhang				
							1					1
Frequency	ency Reading Level		Cable Loss	Antenna Factor		eamp actor	Emission Level	Li	imits	Margin	Detector	Comment
(MHz)	(dBµV)		(dB)	dB/m	((dB)	(dBµV/m)	(dB	μV/m)	(dB)	Туре	
3260	68.22		4.04	29.57	4	4.70	57.13		74	-16.87	Pk	Vertical
3260	50.52		4.04	29.57	4	4.70	39.43		54	-14.57	AV	Vertical
3260	69.04		4.04	29.57	4	4.70	57.95		74	-16.05	Pk	Horizontal
3260	46.14		4.04	29.57	4	4.70	35.05		54	-18.95	AV	Horizontal
3332	68.22		4.26	29.87	4	4.40	57.95		74	-16.05	Pk	Vertical
3332	48.15		4.26	29.87	4	4.40	37.88		54	-16.12	AV	Vertical
3332	70.22		4.26	29.87	4	4.40	59.95		74	-14.05	Pk	Horizontal
3332	46.59		4.26	29.87	4	4.40	36.32		54	-17.68	AV	Horizontal
17797	50.19		10.99	43.95	4	3.50	61.63		74	-12.37	Pk	Vertical
17797	30.19		10.99	43.95	4	3.50	41.63		54	-12.37	AV	Vertical
17788	59.78		11.81	43.69	4	4.60	70.68		74	-3.32	Pk	Horizontal
17788	37	.73	11.81	43.69	4	4.60	48.63		54	-5.37	AV	Horizontal

ACCREDITED

Certificate #4298.01

ilac-M

Note: (1) All other emissions more than 20dB below the limit.

(2)Only the worst data is recorded in the report, the data rates (1Mbps for GFSK modulation) test result is the worst



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

Certificate #4298.01

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) 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.

7.3.6 Test Results

EUT:	Tablet PC	Model No.:	NT-T710
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}





7.4.6 Test Results

EUT:	Tablet PC	Model No.:	NT-T710
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

ACCREDITED

Certificate #4298.01





7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

Certificate #4298.01

7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	Tablet PC	Model No.:	NT-T710
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.





7.6.6 Test Results

EUT:	Tablet PC	Model No.:	NT-T710
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Tablet PC	Model No.:	NT-T710
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Gavan Zhang





7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

Certificate #4298.01

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.





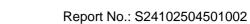
7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

The EUT antenna is permanent attached PIFA antenna (Gain: 3.16dBi). It comply with the standard requirement.





8 TEST RESULTS

8.1 **1M**

8.1.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2412	Ant1	87.85	0.56	0.61
NVNT	BLE 1M	2440	Ant1	88.07	0.55	0.61
NVNT	BLE 1M	2480	Ant1	87.68	0.57	0.61

ACCREDITED

Certificate #4298.01



ilac-MR/

ACCREDITED

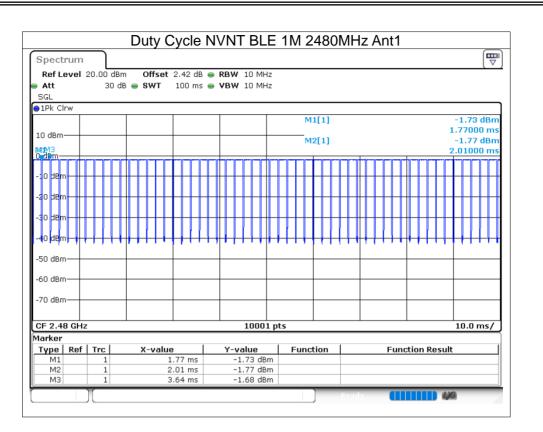
Certificate #4298.01

Report No.: S24102504501002





ACCREDITED Certificate #4298.01







8.1.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.56	30	Pass
NVNT	BLE 1M	2440	Ant1	-2.02	30	Pass
NVNT	BLE 1M	2480	Ant1	-1.78	30	Pass

ACCRED

Certificate #4298.01

ITED

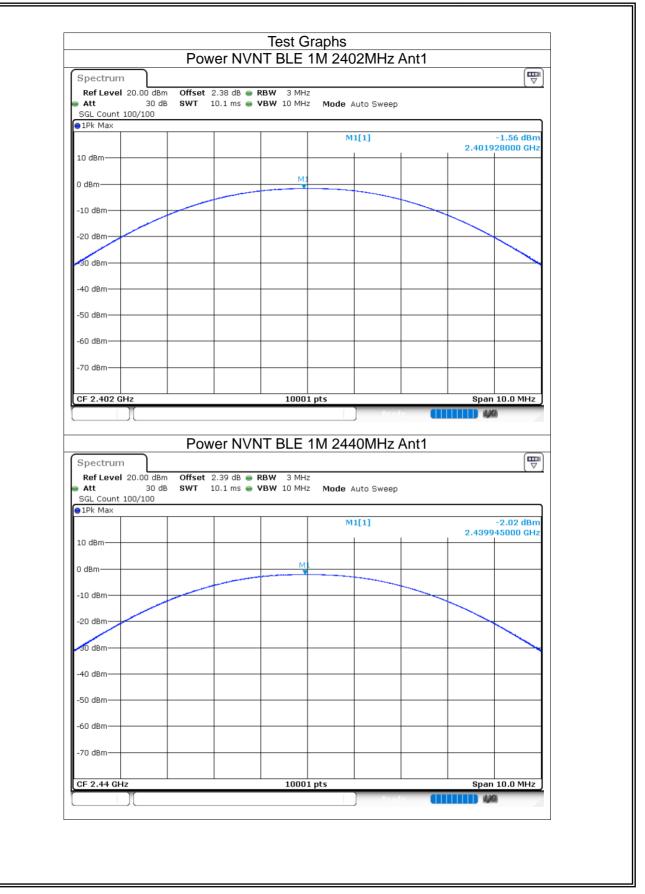


ilac-MR

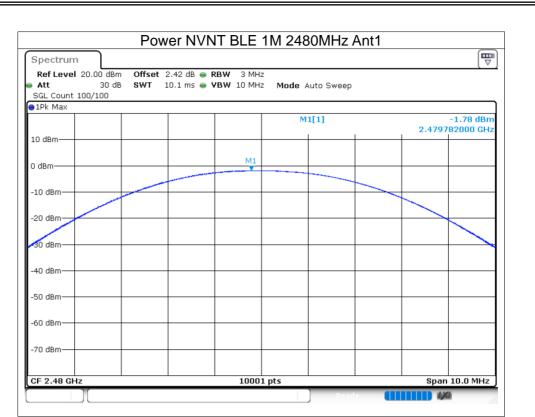
ACCREDITED

Certificate #4298.01

Report No.: S24102504501002







ACCREDITED





8.1.3 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.638	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.656	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.641	0.5	Pass

ACCREDITED



ilac-MR

ACCREDITED

Certificate #4298.01

Report No.: S24102504501002



Version.1.3



			dth NVNT BL				(
Spectrum							[₩
Ref Level	20.00 dBm	n Offset 2.42 dB	🔵 RBW 100 kHz				
Att	30 dE	3 SWT 18.9 µs	🔵 VBW 300 kHz	Mode Auto FFT			
SGL Count	100/100						
∋1Pk Max							
				M1[1]		9.470	-2.23 dBm 751820 GHz
10 dBm				M2[1]		2.479	-8.26 dBm
			M1	(inter)		2.479	579000 GHz
0 dBm		M2		МЗ			
-10 dBm				The second secon			
10 0.0							
-20 dBm							
	/	1				N	
-30 dBm							
-40 dBm							
TO GOLD							
-50 dBm							
-60 dBm							+
-70 dBm							
-/0 ubiii							
CF 2.48 GH	7		10001 pt			Sna	an 2.0 MHz
darker	2		10001 p				
Type Ref	Trc	X-value	Y-value	Function	Fun	ction Resul	t
M1	1	2.47975182 GHz	-2.23 dBm				-
M2	1	2.479679 GHz	-8.26 dBm				
M3	1	2.480321 GHz	-8.27 dBm				

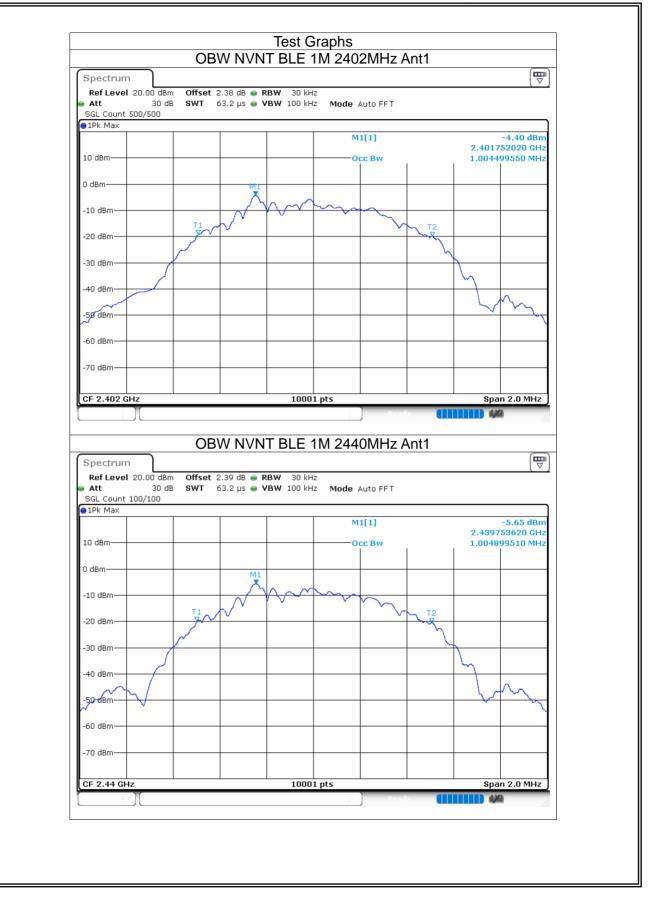
ACCREDITED



8.1.4 Occupied Channel Bandwidth

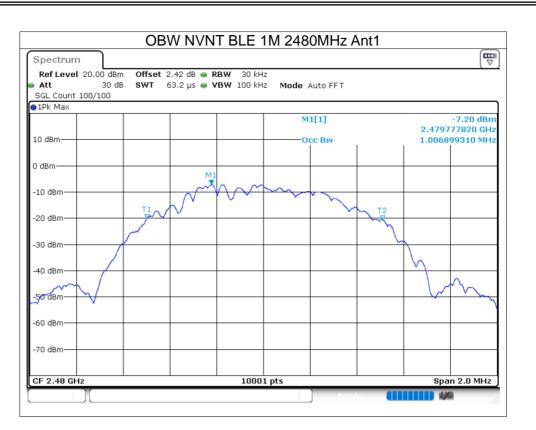
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.004
NVNT	BLE 1M	2440	Ant1	1.005
NVNT	BLE 1M	2480	Ant1	1.007





ACCREDITED





ACCREDITED



8.1.5 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-18.55	8	Pass
NVNT	BLE 1M	2440	Ant1	-18.97	8	Pass
NVNT	BLE 1M	2480	Ant1	-18.76	8	Pass

ACCREDITED

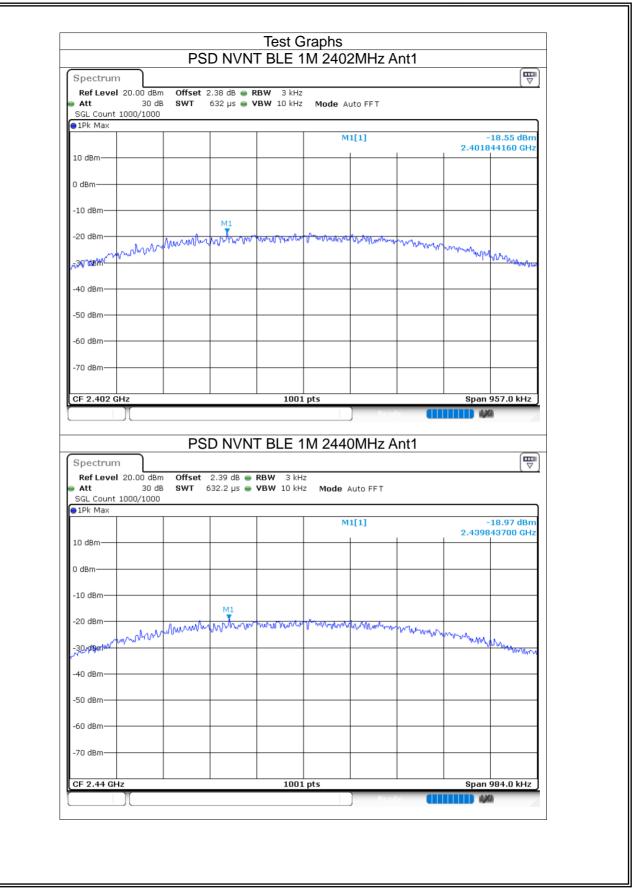


ilac-MR

ACCREDITED

Certificate #4298.01

Report No.: S24102504501002





Spectrum		
Ref Level 20.00 dBm Offset 2.42 dB	3 ● RBW 3 kHz 5 ● VBW 10 kHz Mode Auto FFT	(•
1Pk Max		
	M1[1]	-18.76 dBm 2.479844390 GHz
10 dBm		
D dBm		
-10 dBm		
-20 dBm	and the of the off of the second of the second	
-20 dBm- -39 dBH/ MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	e da e en calanza a la calandaria d'and Marcod	when he was a second when the work of the second se
-40 dBm		
-50 dBm		
-60 dBm		
-70 dBm		

ACCREDITED



8.1.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-58.09	-20	Pass
NVNT	BLE 1M	2480	Ant1	-59.95	-20	Pass

ACCREDITED

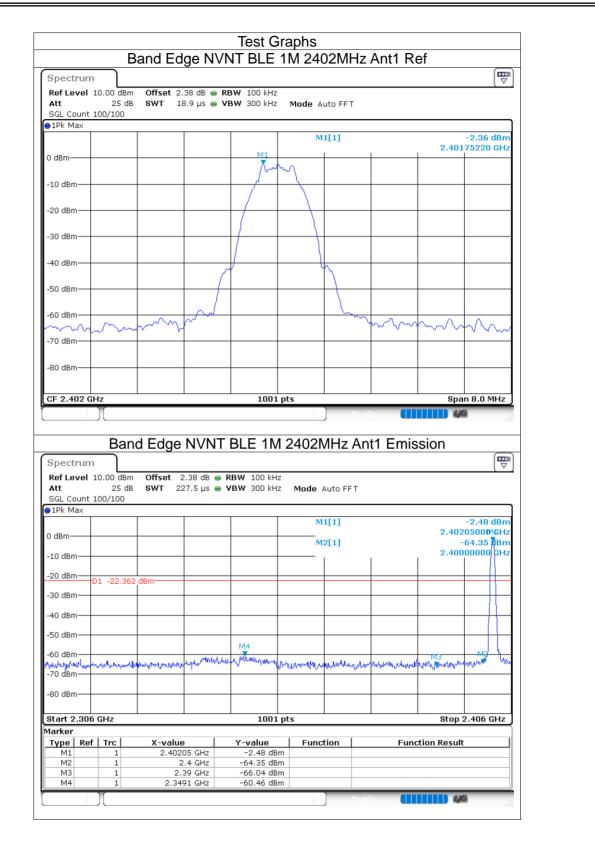


ilac-MR

ACCREDITED

Certificate #4298.01

Report No.: S24102504501002

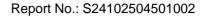




Decturin Offset 2.42 db e RBW 100 HHz tt 25 db SWT 18.9 µs e VBW 300 HHz dsm M1[1] 2.47975220 C dsm M1 dsm M1[1] 2.48 GHz Node Auto FFT Spen 8.0 MI M1[1] 2.49 GHz M1[1] dsm M1[1] dsm M1[1] dsm<	ef Level 10.00 dBm tt 25 dB GL Count 100/100			2480MHz An	
tt 25 db SWT 18.9 µ5 e VBW 300 kHz Mode Auto FFT 6. Court 100/100 Pk Max 18 Max 18 Max 18 Max 18 Max 19 Max 19 Max 19 Max 10 dBm 10	tt 25 dB GL Count 100/100				(
GL COURT 100/100 PK Max M1[1] -2.24 d dBm M1 2.47975220 C 0 dBm M1 M1 0 dBm M1 M2 0 dBm M1 <th>GL Count 100/100</th> <th></th> <th></th> <th></th> <th></th>	GL Count 100/100				
IPK Max M1[1] -2.24 d dBm M1 2.47975220 C 0 dBm 0 dBm 0 0 dBm 0 0 </th <th></th> <th>29 MI 18'A ha 🥌</th> <th>VBW 300 KHZ MC</th> <th>Dae Auto FFT</th> <th></th>		29 MI 18'A ha 🥌	VBW 300 KHZ MC	Dae Auto FFT	
dBm M1 2.47975220 C 0 dBm 0 dBm 0 0 dBm 0 dBm 0 0 dBm 0 0 <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
dBm M1				M1[1]	-2.24 dB
0 dBm 0	dDm		M1	1 1	2.47975220 G
0 dBm 0			1 Anna		
0 dBm 0					
0 dBm 0	5 dbin			\mathcal{L}	
0 dBm 0	0 dBm				
0 dBm 0					
0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	0 dBm				
0 dBm 0					
0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 1 d d d d d d d d d d d d d d d d d d d	0 dBm				
0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 1 d d d d d d d d d d d d d d d d d d d			/		
0 dBm	0 dBm	+ + /			
0 dBm 0 dBm 0 dBm 0 dBm E 2.48 GHz E 2.42 dB • RBW 100 kHz I 100 dBm I 10					
0 dBm 0 dBm 1001 pts Span 8.0 Mt 2.48 GHz 1001 pts Span 8.0 Mt Band Edge NVNT BLE 1M 2480MHz Ant1 Emission Prody Main pectrum (111) (111) (111) ef Level 10.00 dBm Offset 2.42 dB RBW 100 kHz Mode Auto FFT (111) gL Count 100/100 Predv (111) (111) (112) (112) PM Max M1[1] 2.47975000 G (12,47975000 G (12,48350000 G (14,4835000 G (14,483500 G		hmatrix		- Whin	man and a
0 dBm 1001 pts Span 8.0 Mi F 2.48 GHz 1001 pts Span 8.0 Mi Band Edge NVNT BLE 1M 2480MHz Ant1 Emission Mi pectrum Image: Control of the control of t					
E 2.48 GHz 1001 pts Span 8.0 Mi Perdy Perdy Image: Span 8.0 Mi Band Edge NVNT BLE 1M 2480MHz Ant1 Emission Perdy Image: Span 8.0 Mi Pectrum Image: Span 8.0 Mi Image: Span 8.0 Mi Image: Span 8.0 Mi Pectrum Image: Span 8.0 Mi Image: Span 8.0 Mi Image: Span 8.0 Mi Image: Span 8.0 Mi Pectrum Image: Span 8.0 Mi Image: Span 8.0 Mi Image: Span 8.0 Mi Image: Span 8.0 Mi Pectrum Image: Span 8.0 Mi Image: Span 8.0 Mi Image: Span 8.0 Mi Image: Span 8.0 Mi Pectrum Image: Span 8.0 Mi Image: Span 8.0 Mi <td>1 aBW</td> <td></td> <td></td> <td></td> <td></td>	1 aBW				
E 2.48 GHz 1001 pts Span 8.0 Mi Band Edge NVNT BLE 1M 2480MHz Ant1 Emission Perdy Image: Constraint of the second	0.40				
Bendy Band Edge NVNT BLE 1M 2480MHz Ant1 Emission getrum ef Level 10.00 dBm Offset 2.42 dB • RBW 100 kHz Mode Auto FFT GL Count 100/100 MI[1] -2.67 d QL Count 100/100 MI[1] -2.47975000 C QL Bm QL Count 100/100 QL Bm QL Count 100/100 <td>J dBm</td> <td></td> <td></td> <td></td> <td></td>	J dBm				
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission pectrum () ef Level 10.00 dbm Offset 2.42 db • RBW 100 kHz tt 0.55 db SWT 227.5 µs • YBW 300 kHz Mode Auto FFT () GL Count 100/100 () Pk Max M1[1] 2.47975000 C 0 dBm 0 () 0 dBm 0 0					
Dectrum af Level 10.00 dBm offset 2.42 dB RBW 100 kHz tt 25 dB SWT 227.5 µs VBW 300 kHz Mode Auto FFT SL Count 100/100 Pk Max M1[1] -2.67 dI 2.47975000 C -63.90 dI 2.48350000 C dBm DI -22.236 dBm dBm <lidbm< li=""> <li< td=""><td>2.48 GHz</td><td></td><td>1001 pts</td><td></td><td>Span 8.0 MH</td></li<></lidbm<>	2.48 GHz		1001 pts		Span 8.0 MH
SL Count 100/100 Pk Max Pk Max M1[1] 2.47975000 C -63.90 d 2.48350000 C 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	ef Level 10.00 dBm			lode Auto FFT	[
M1[1] -2.67 dl 2.47975000 cl 2.47975000 cl 0 d8m M2[1] -63.90 dl 0 d8m 2.48350000 cl 2.48350000 cl 0 d8m 0 d8m 0 d8m 0 d8m					
dam 2.47975000 C 0 dam M2[1] 0 dam 2.48950000 C 0 dam 2.48350000 C 0 dam 0	Pk Max				
0 dBm M2[1] -63.90 dl 0 dBm 2.48350000 dl 0 dBm 0 dBm	M1			M1[1]	-2.67 dE 2 47975000 cl
0 dBm	38m	+		M2[1]	-63.90 dE
0 dBm 0	h l	<u> </u>			2.48350000 G
0 dBm 0					
с dBm					
0 dBm	0	i dBm			
0 dBm	0 cBm	5 dBm			
0 dbm 0 dbm 0 dbm 0 dbm	0 cBmD1 -22.230	dBm			
0 dBm	0 cBmD1 -22.230	dBm			
0 dBm	0 сВтD1 -22.23(0 сВт С dВт	5 dBm			
0 dBm	0 dBm				the transformed
	D1 -22.230 CBm dBm dBm dBm dBm	M3 pd	MM when we show you want	will be a constraint of the state	unarmer through the second second
	D dBmD1 -22.230 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	M3 pd	nd and a contraction of the sector	welled an energy with the	unaral million and the second
	0 dBm D1 -22.230 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	M3 pd	nim Muhamuputapiakatha	walled an energy way and	sheer and the second
art 2.476 GHZ 1001 pts Stop 2.576 GF	0 dBm D1 -22.230 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	M3 pd	nim Muhamunahuni intratu	walled an general all and a second	in construction of the second se
arker	0 dBm D1 -22.230 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	M3 pd	าให้ ¹¹ ปีปละกังปุกษณฑิษย์หมู่หมู่หมู่หมู่หมู่หมู่หมู่หมู่หมู่หมู่	walled an energy way and	ม _{ีน} เมษณุญปู่ม⊷ม ^{ู่ไป} ~องไม่/มาไป/ _{ไปเสอ} ะไมะลา Stop 2.576 GH
Ype Ref Trc X-value Y-value Function Function Result M1 1 2.47075 CHz -2.67 dPm	D dBm D1 -22.230 0 dBm 0 0 d	1713 Marijelikativnijikastel ^{i vi} denov	1001 pts		Stop 2.576 GH
	0 dBm D1 -22.230 0 dBm D1 -22.230 0 dBm 0 dBm	X-value	1001 pts		Stop 2.576 GH
M3 1 2.5 GHz -65.01 dBm	0 dBm D1 -22.230	<mark>МЗ</mark> Иниј/Шићи/~~иј/ц/ц ^{/М/ни} X-value 2.47975 GHz	1001 pts Y-value -2.67 dBm		Stop 2.576 GH
M4 1 2.4862 GHz -62.19 dBm	D dBm D1 -22.230 0 dBm 0 0 d	<mark>МЗ</mark> Иницияли (Муници) Иницияли (Муници) Иницияли (Муници) Иницияли (Муници) Иницияли (Муници) Х- value 2.47975 GHz 2.4835 GHz 2.5 GHz	1001 pts Y-value -2.67 dBm -63.00 dBm -65.01 dBm		Stop 2.576 GH

ACCREDITED





8.1.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-48.84	-20	Pass
NVNT	BLE 1M	2440	Ant1	-46.68	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.3	-20	Pass

ACCRED

Certificate #4298.01

TED

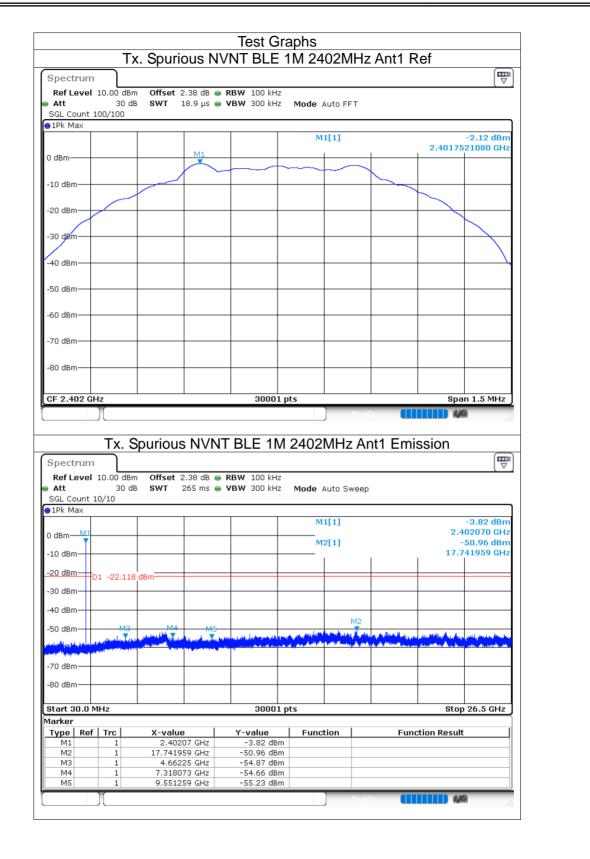


ilac-MR

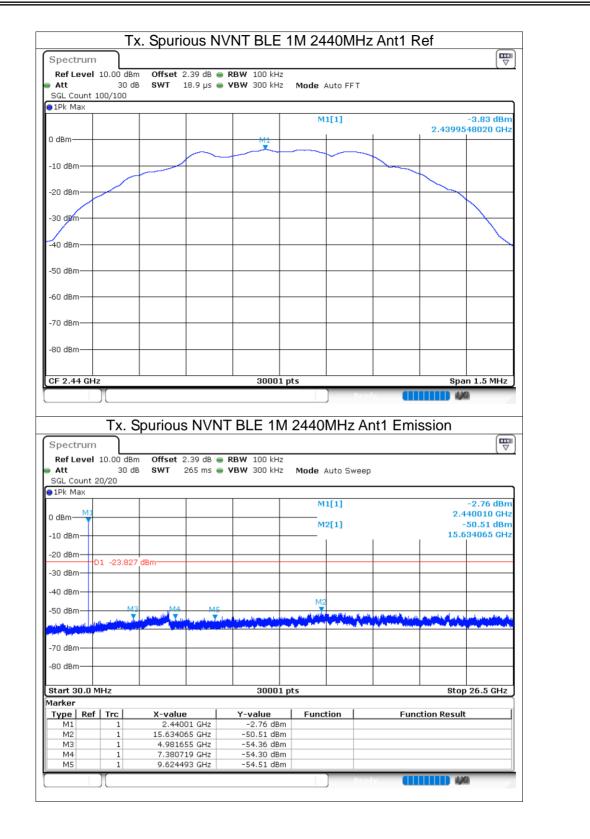
ACCREDITED

Certificate #4298.01

Report No.: S24102504501002

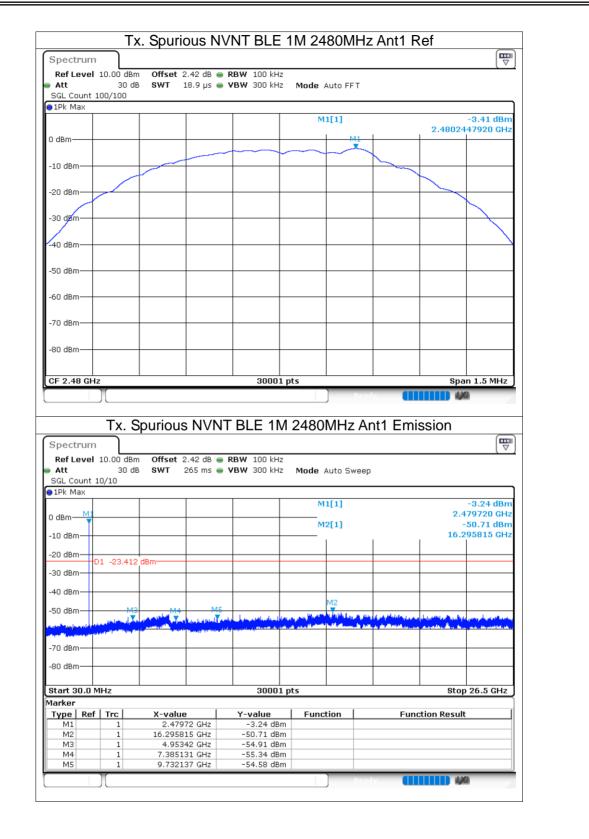






ACCREDITED





ACCREDITED





8.2 **2M**

8.2.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 2M	2402	Ant1	66.4	1.78	1.22
NVNT	BLE 2M	2440	Ant1	66.4	1.78	1.22
NVNT	BLE 2M	2480	Ant1	66.4	1.78	1.22

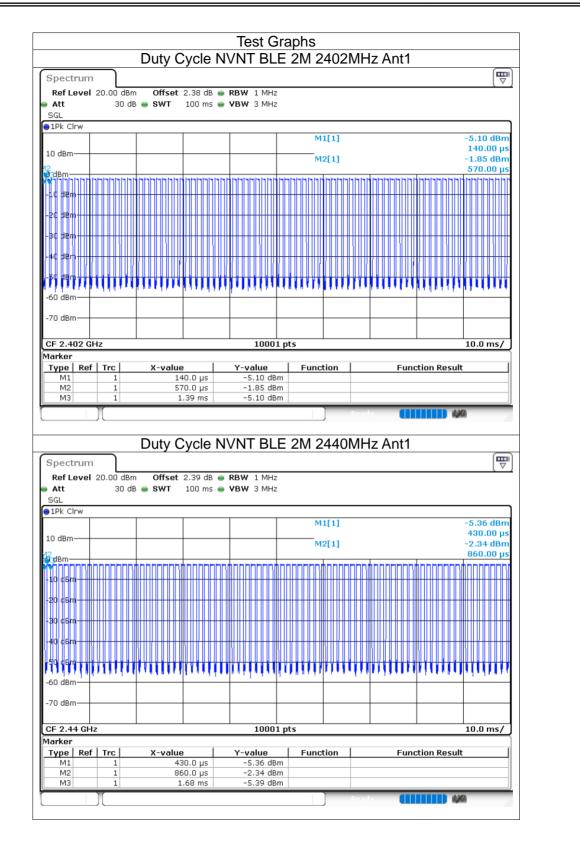


ilac-MR

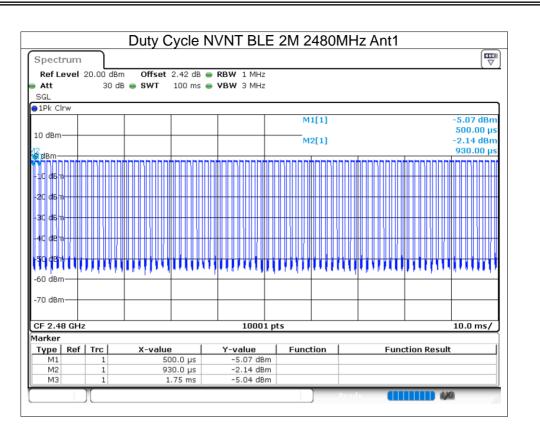
ACCREDITED

Certificate #4298.01

Report No.: S24102504501002







ACCREDITED



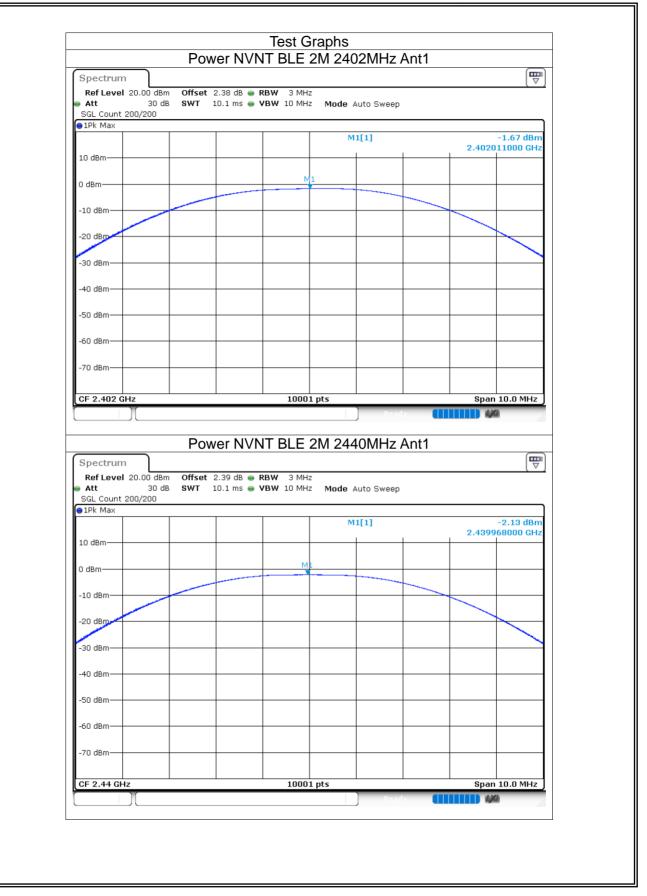


8.2.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-1.67	30	Pass
NVNT	BLE 2M	2440	Ant1	-2.13	30	Pass
NVNT	BLE 2M	2480	Ant1	-1.88	30	Pass

ACCREDITED





ACCREDITED



		NT BLE 2M			m
Spectrum					
Ref Level 20.00 dBm	_				
Att 30 dB	SWT 10.1 ms 🖷	VBW 10 MHz M	ode Auto Sweep		
SGL Count 200/200					
TPK Max			M1[1]		-1.88 dBm
			milil	2.	479890000 GHz
.0 dBm					
I dBm		M1			
10 dBm					
20 dBm					
20 000					
30 dBm					
30 aBm					
40 dBm					
50 dBm					
60 dBm					
70 dBm					
F 2.48 GHz	I	10001 pts			Span 10.0 MHz

ACCREDITED





8.2.3 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.252	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.336	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.358	0.5	Pass

ACCREDITED



ilac-MR

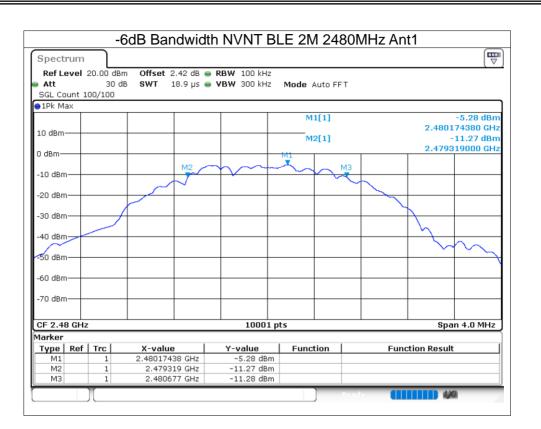
ACCREDITED

Certificate #4298.01

Report No.: S24102504501002







ACCREDITED



8.2.4 Occupied Channel Bandwidth

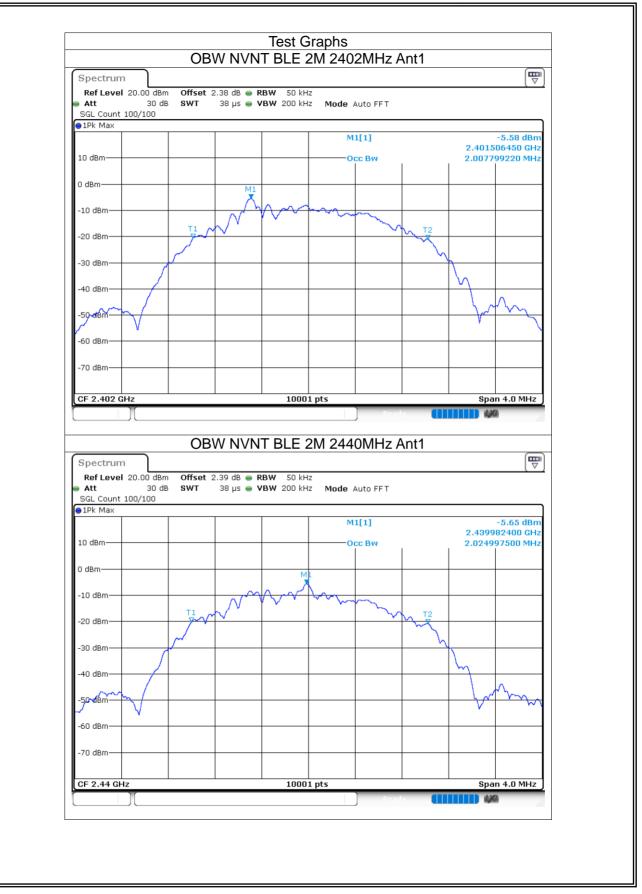
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.008
NVNT	BLE 2M	2440	Ant1	2.025
NVNT	BLE 2M	2480	Ant1	2.019

ACCREDITED

Certificate #4298.01

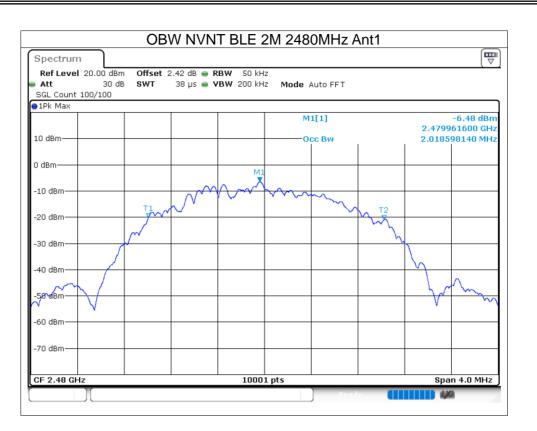
ilac-MR





ACCREDITED





ACCREDITED





8.2.5 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-21.57	8	Pass
NVNT	BLE 2M	2440	Ant1	-22.22	8	Pass
NVNT	BLE 2M	2480	Ant1	-21.86	8	Pass

ACCREDITED



	<u>רט</u>	D NVN		.101 2402				m
Spectrum		0.00 15	DDUV C 11					
Ref Level 20. Att		2.38 dB 👄 I 632.2 µs 👄 '			Auto FFT			
SGL Count 100/								
●1Pk Max				м	1[1]			-21.57 dBm
								027230 GHz
10 dBm								
0 dBm								
-10 dBm								
-20 dBm				M1				
-20 0811	www.a.a.dublellellellellelle	h. cale	manulul	Mormoule	mathine also			
-30 dBm	tront (MARANNEY WILL	A State of the last of the las				and a star for the star of the star	work following	Menchhlungelle
								a shipply
-40 dBm								
-50 dBm								
-60 dBm								
-70 dBm								
-70 000								
CF 2.402 GHz			1000:	1 nts			Coor	1.878 MHz
01 2.402 0112			1000.	r pts			opun	1.070 Milli2
Spectrum	PS	D NVN	ΓBLE 2	244 MM) OMHz A	nt1		
Ref Level 20.	00 dBm Offset :	2.39 dB 🖷 R	BW 3 kHz			Ant1	~	
Ref Level 20. Att SGL Count 100/	00 dBm Offset : 30 dB SWT		BW 3 kHz			Ant1		
Ref Level 20. Att	00 dBm Offset : 30 dB SWT	2.39 dB 🖷 R	BW 3 kHz	Mode A	uto FFT	Ant1		
Ref Level 20. Att SGL Count 100/ PIPk Max	00 dBm Offset : 30 dB SWT	2.39 dB 🖷 R	BW 3 kHz	Mode A		Ant1		(₩) -22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/	00 dBm Offset : 30 dB SWT	2.39 dB 🖷 R	BW 3 kHz	Mode A	uto FFT	Ant1		-22.22 dBm
Ref Level 20. Att SGL Count 100/ PIPk Max	00 dBm Offset : 30 dB SWT	2.39 dB 🖷 R	BW 3 kHz	Mode A	uto FFT	Ant1		-22.22 dBm
Ref Level 20. Att SGL Count 100/ 1Pk Max 10 dBm	00 dBm Offset : 30 dB SWT	2.39 dB 🖷 R	BW 3 kHz	Mode A	uto FFT			-22.22 dBm
Ref Level 20. Att SGL Count 100/ 1Pk Max	00 dBm Offset : 30 dB SWT	2.39 dB 🖷 R	BW 3 kHz	Mode A	uto FFT	Ant1		-22.22 dBm
Ref Level 20. Att SGL Count 100/ 1Pk Max 10 dBm 0 dBm -10 dBm	00 dBm Offset : 30 dB SWT	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT	Ant1		-22.22 dBm
Ref Level 20. Att SGL Count 100/ SGL Count 100/ 100/ 10 dBm 0 dBm -10 dBm - - -20 dBm - -	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/ SGL Count 100/ 100/ 10 dBm 0 dBm -10 dBm - - -20 dBm - -	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT	nt1	2.4399	-22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/ 1D dBm 10 dBm -10 dBm -20 dBm -30 dBm	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/ SGL Count 100/ 100/ 10 dBm 0 dBm -10 dBm - - -20 dBm - -	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm
Ref Level 20. Att SGL Count 100/ 1D dBm 10 dBm -10 dBm -20 dBm -30 dBm	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/ 1D dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/ 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/ 1D dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/ 1D dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 968140 GHz
Ref Level 20. Att SGL Count 100/ 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 668140 GHz
Ref Level 20. Att SGL Count 100/ 1D dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	00 dBm Offset : 30 dB SWT (100	2.39 dB • R 632 µs • V	BW 3 kHz BW 10 kHz	Mode A	uto FFT		2.4399	-22.22 dBm 668140 GHz

ACCREDITED



Spectrum					
Ref Level 20.00 dBm	-	-			
Att 30 dB SGL Count 100/100	SWT 632 µs 🧉	VBW 10 kHz M	ode Auto FFT		
1Pk Max					
			M1[1]		-21.86 dBm 2.480027090 GHz
10 dBm				+ +	
) dBm					
10 dBm					
20 dBm		M1			
30 dBm	M. Marthanand	what we have prophilled and	or hit have been a state	umalundar	
30 dBm					all would have been a few of the state of th
40 dBm					
50 dBm				+	
60 dBm					
-60 dBm					

ACCREDITED



8.2.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-57.41	-20	Pass
NVNT	BLE 2M	2480	Ant1	-48.56	-20	Pass

ACCREDITED

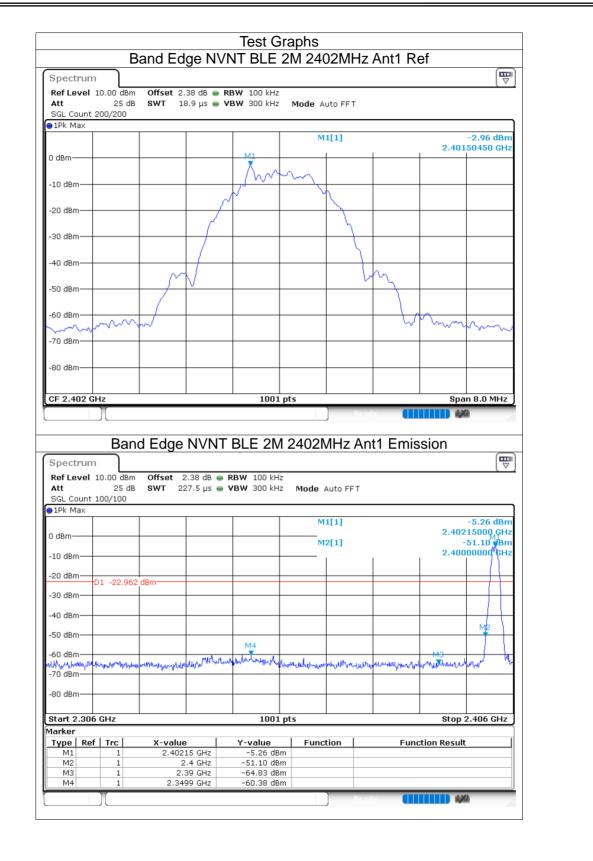


ILAC-MR

ACCREDITED

Certificate #4298.01

Report No.: S24102504501002





Spect	rum									
Ref Le	vel 2	20.00 dBm	Offset 2	.42 dB 😑 I	RBW 100 kHz					<u>(*)</u>
Att			3 SWT 1	8.9 µs 😑 '	VBW 300 kHz	Mode Au	to FFT			
SGL Co		200/200								
DIAK M	ax					M1	[1]			-3.53 dBm
									2.479	996800 GHz
10 dBm										
0 dBm-					M					
					1 M	m				
-10 dBn	n				1	L L				
00 40-				1 0		ľ	5			
-20 dBn	n									
-30 dBn							<u> </u>			
SS UDI										
-40 dBn	n —									
			/سر					M		
-50 dBn	n		$+ \wedge$				v	<u> </u>		
\sim	wh	m	hr						h	mm
-60 dBn	n+									
-70 dBn	n-		-							
									-	
CF 2.4 Spect][]	nd Edge	NVNT	1001 BLE 2N		Peer IHz An	t1 Emis		in 8.0 MHz)
Spect	rum	Bar	Offset	2.42 dB 🖷	BLE 2M	1 2480N		t1 Emis		
Spect Ref Le Att SGL Co	rum vel 2	Bar	Offset	2.42 dB 🖷	BLE 2M	1 2480N		t1 Emis		
Spect Ref Le Att	rum vel 2	Bar Bar 20.00 dBm 35 dB	Offset	2.42 dB 🖷	BLE 2M	2 2 2 2 Mode A	uto FFT	t1 Emis		
Spect Ref Le Att SGL Co 1Pk M	evel 2 ount 1 lax	Bar Bar 20.00 dBm 35 dB	Offset	2.42 dB 🖷	BLE 2M	2 2 2 2 Mode A		t1 Emis	ssion	
Spect Ref Le Att SGL Co	evel 2 ount 1 lax	Bar Bar 20.00 dBm 35 dB	Offset	2.42 dB 🖷	BLE 2M	Z Z Mode A M1	uto FFT	t1 Emis	2.475	
Spect Ref Le Att SGL Co 1Pk M	evel 2 ount 1 lax	Bar Bar 20.00 dBm 35 dB	Offset	2.42 dB 🖷	BLE 2M	Z Z Mode A M1	uto FFT	t1 Emis	2.475	-4.05 dBm 055000 GHz
Spect Ref Le Att SGL Co IPk M 10 dBm 0 dBm-	evel 2	Bar Bar 20.00 dBm 35 dB	Offset	2.42 dB 🖷	BLE 2M	Z Z Mode A M1	uto FFT	t1 Emis	2.475	-4.05 dBm 555000 GHz 55.49 dBm
Spect Ref Le Att SGL Cc P1Pk M	evel 2	Bar Bar 20.00 dBm 35 dB	Offset	2.42 dB 🖷	BLE 2M	Z Z Mode A M1	uto FFT	t1 Emis	2.475	-4.05 dBm 555000 GHz 55.49 dBm
Spect Ref Le Att SGL Co IPk M 10 dBm 0 dBm-	punt 1	Bar Bar 20.00 dBm 35 dE	6 Offset 2 3 SWT 2	2.42 dB 🖷	BLE 2M	Z Z Mode A M1	uto FFT	t1 Emis	2.475	-4.05 dBm 555000 GHz 55.49 dBm
Spect RefLe Att SGL Co 1Pk M 10 dBm 0 dBm- -10 dBm	n C	Bar Bar 20.00 dBm 35 dB	6 Offset 2 3 SWT 2	2.42 dB 🖷	BLE 2M	Z Z Mode A M1	uto FFT	t1 Emis	2.475	-4.05 dBm 555000 GHz 55.49 dBm
Spect Ref Le Att SGL Cc 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	n	Bar Bar 20.00 dBm 35 dE	6 Offset 2 3 SWT 2	2.42 dB 🖷	BLE 2M	Z Z Mode A M1	uto FFT	t1 Emis	2.475	-4.05 dBm 555000 GHz 55.49 dBm
Spect Ref Le Att SGL CC 1Pk M 10 dBm 0 dBm- -10 dBm -20 dBn	n	Bar 20.00 dBm 35 dE .00/100	3 dBm	2.42 dB 🖷	BLE 2M	Z Z Mode A M1	uto FFT	t1 Emis	2.475	-4.05 dBm 555000 GHz 55.49 dBm
Spect Ref Le Att SGL Cc 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	n n n	Bar 20.00 dBm 35 dE 20/100	3 dBm	2.42 dB 27.5 µs	BLE 2M	1 2480N	uto FFT [1] [1]		2.479 2.483	-4.05 dBm 55000 GHz 55.49 dBm 50000 GHz
Spect Ref Le Att SGL Cc 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm	n n n n n n n n n	Bar 20.00 dBm 35 dE 20/100	3 dBm	2.42 dB 27.5 µs	BLE 2M	1 2480N	uto FFT [1] [1]		2.479 2.483	-4.05 dBm 55000 GHz 55.49 dBm 50000 GHz
Spect Ref Le Att SGL CC 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Image: state	Bar 20.00 dBm 35 dE 20/100	3 dBm	2.42 dB 27.5 µs	BLE 2M	1 2480N	uto FFT [1] [1]		2.479 2.483	-4.05 dBm 55000 GHz 55.49 dBm 50000 GHz
Spect Ref Le Att SGL Cc 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm	Image: state	Bar 20.00 dBm 35 dE 20/100	3 dBm	2.42 dB 27.5 µs	BLE 2M	1 2480N	uto FFT [1] [1]		2.479 2.483	-4.05 dBm 55000 GHz 55.49 dBm 50000 GHz
Spect Ref Le Att SGL Cc 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -40 dBm -50 dBm -70 dBm	n n n n n n n n n n n n	Bar 20.00 dBm 35 dE .00/100	3 dBm	2.42 dB 27.5 µs	BLE 2M RBW 100 kH VBW 300 kH	2 Z Mode A M1 M2	uto FFT [1] [1]		2.479 2.483	-4.05 dBm 055000 GHz 55.49 dBm 050000 GHz
Spect Ref Le Att SGL Cc 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -40 dBm -40 dBm -70 dBm -70 dBm	n n n n n n n n n n n n n n n n n n n	Bar 20.00 dBm 35 dE .00/100	3 dBm	2.42 dB 27.5 µs	BLE 2M	2 Z Mode A M1 M2	uto FFT [1] [1]		2.479 2.483	-4.05 dBm 55000 GHz 55.49 dBm 50000 GHz
Spect Ref Le Att SGL Cc 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -40 dBm -50 dBm -70 dBm	n n n n n n n n n n n n n n	Bar 20.00 dBm 35 dE .00/100	3 dBm	2.42 dB 27.5 µs 	BLE 2M RBW 100 kH VBW 300 kH	2 Z Mode A M1 M2	uto FFT [1] [1]		2.479 2.483	-4.05 dBm 55000 GHz 55.49 dBm 55000 GHz
Spect Ref Le Att SGL CC 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2 Marker Type M1	n n n n n n n n n n n n n n	Bar 20.00 dBm 35 dE .00/100 01 -23.53	Offset : 3 SWT 2 3 dBm : 3 dBm : 3 dBm : X-value : : 2.479 : :	2.42 dB 27.5 µs 27.5 µs 27.5 µs 27.5 µs 25.5 GHz	BLE 2M	2 Mode A	uto FFT [1] [1]		2.475 2.483	-4.05 dBm 55000 GHz 55.49 dBm 55000 GHz
Spect Ref Le Att SGL Cc 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -60 dBm -70 dBm -	n n n n n n n n n n n n n n	Bar 20.00 dBm 35 dE .00/100 01 -23.53	3 dBm 4 M3 3 dBm 4 M3 4 M3	2.42 dB 27.5 µs 27.5 µ	BLE 2M	2 2 Mode A M1 M2 M1 M2 M2 M2 M1 M2 M2 M2 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto FFT [1] [1]		2.475 2.483	-4.05 dBm 55000 GHz 55.49 dBm 55000 GHz
Spect Ref Le Att SGL CC 1Pk M 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2 Marker Type M1	n n n n n n n n n n n n n n	Bar 20.00 dBm 35 dE .00/100 01 -23.53	Offset :: 3 SWT 2 3 dBm 3 dBm	2.42 dB 27.5 µs 27.5 µs 27.5 µs 27.5 µs 25.5 GHz	BLE 2M	I 2480N	uto FFT [1] [1]		2.475 2.483	-4.05 dBm 55000 GHz 55.49 dBm 55000 GHz

ACCREDITED





8.2.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-48.32	-20	Pass
NVNT	BLE 2M	2440	Ant1	-47.25	-20	Pass
NVNT	BLE 2M	2480	Ant1	-46.84	-20	Pass

ACCRED

Certificate #4298.01

TED



ILAC-MR

ACCREDITED

Certificate #4298.01

Report No.: S24102504501002

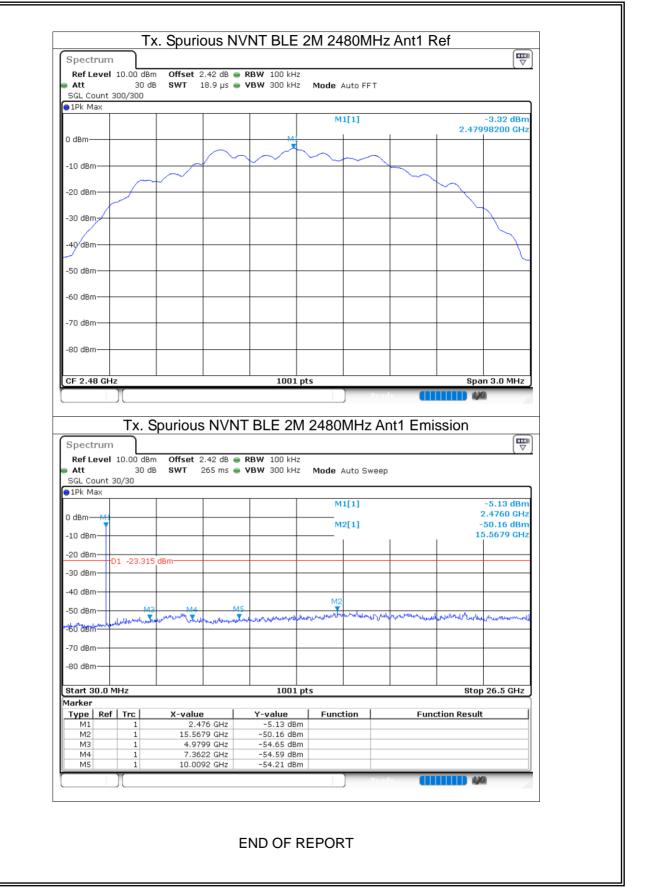






ACCREDITED





ACCREDITED