



RADIO TEST REPORT FCC ID: 0551001923

Product:4G TabletTrade Mark:LOGIC, ISWAG, UNONUModel No.:T10L PLUSFamily Model:Grad, SlateReport No.:STR230329003001EIssue Date:May 26, 2023

Prepared for

SWAGTEK

10205 NW 19th Street STE101 Miami, FL 33172, United States

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel:400-800-6106,0755-2320 0050 / 2320 0090 Website: http://www.ntek.org.cn





TABLE OF CONTENTS

ACCREDITED Certificate #4298.01

ilac-MR

1	TES	ST RESULT CERTIFICATION	3
2	SUN	MMARY OF TEST RESULTS	4
3	FAC	CILITIES AND ACCREDITATIONS	5
	3.1 3.2 3.3	FACILITIES LABORATORY ACCREDITATIONS AND LISTINGS MEASUREMENT UNCERTAINTY	5
4	GE	NERAL DESCRIPTION OF EUT	6
5	DES	SCRIPTION OF TEST MODES	8
6	SET	FUP OF EQUIPMENT UNDER TEST	9
7	6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM SUPPORT EQUIPMENT EQUIPMENTS LIST FOR ALL TEST ITEMS ST REQUIREMENTS	9
/			
	7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 7.10	CONDUCTED EMISSIONS TEST RADIATED SPURIOUS EMISSION NUMBER OF HOPPING CHANNEL. HOPPING CHANNEL SEPARATION MEASUREMENT AVERAGE TIME OF OCCUPANCY (DWELL TIME) 20DB BANDWIDTH TEST PEAK OUTPUT POWER CONDUCTED BAND EDGE MEASUREMENT SPURIOUS RF CONDUCTED EMISSION ANTENNA APPLICATION	16 25 26 27 29 30 31 32
	7.11	FREQUENCY HOPPING SYSTEM (FHSS) EQUIPMENT REQUIREMENTS	
8	TES	ST RESULTS	
	8.1 8.2 8.3 8.4 8.5 8.6 8.7 8.8 8.9	DWELL TIME MAXIMUM CONDUCTED OUTPUT POWER -20DB BANDWIDTH Occupied Channel Bandwidth Carrier Frequencies Separation Number of Hopping Channel Band Edge Band Edge Band Edge (Hopping) Conducted RF Spurious Emission	





1 TEST RESULT CERTIFICATION

Applicant's name	SWAGTEK
Address:	10205 NW 19th Street STE101 Miami, FL 33172, United States
Manufacturer's Name	SWAGTEK
Address:	10205 NW 19th Street STE101 Miami, FL 33172, United States
Product description	
Product name:	4G Tablet
Trade Mark:	LOGIC, ISWAG, UNONU
Model and/or type reference:	T10L PLUS
Family Model	Grad, Slate
Test Sample Number	T230329002R003

Measurement Procedure Used:

APPLICABLE STANDARDS		
STANDARD/ TEST PROCEDURE	TEST RESULT	
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2013	Complied	

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.

Date of Test	:	Mar 29, 2023 ~ May 26, 2023
Testing Engineer	:	Muhzi Lee
		(Mukzi Lee)
Authorized Signatory	:	Alex
/ action 200 orginatory	•	(Alex Li)





2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C						
Standard Section Test Item Verdict Remark						
15.207	Conducted Emission	PASS				
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS				
15.247(a)(1)	Hopping Channel Separation	PASS				
15.247(b)(1)	Peak Output Power	PASS				
15.247(a)(iii)	Number of Hopping Frequency	PASS				
15.247(a)(iii)	Dwell Time	PASS				
15.247(a)(1)	Bandwidth	PASS				
15.247 (d)	Band Edge Emission	PASS				
15.247 (d)	Spurious RF Conducted Emission	PASS				
15.203	Antenna Requirement	PASS				

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

2. 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

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. 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
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. 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%





4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
4G Tablet				
LOGIC, ISWAG, UNONU				
O551001923				
T10L PLUS				
Grad, Slate				
All the model are the same circuit and RF module, except the model names.				
2402MHz~2480MHz				
GFSK, π/4-DQPSK, 8-DPSK				
79 Channels				
PIFA Antenna				
1.13 dBi				
Model: LY-JX058-08U0502000 Input: AC 100-240V, 50-60Hz 0.3A Output: DC 5.0V2000mA				
DC 3.8V, 5000mAh, 19Wh				
DC 3.8V from battery or DC 5V from Adapter.				
S30DL_V1.1X				
LOGIC_LT10L_PLUS_TIGO_GT_V1.0				

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.





Revision History

Report No.	Version	Description	Issued Date
STR230329003001E	Rev.01	Initial issue of report	May 26, 2023





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 for GFSK modulation; 2Mbps for π /4-DQPSK modulation; 3Mbps for 8-DPSK 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	2403
39	2441
40	2442
77	2479
78	2480

Note: fc=2402MHz+k×1MHz k=0 to 78

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

For AC Conducted Emission				
Final Test Mode	Description			
Mode 1	normal link mode			
Nate: AC new and line Candy ated Emission was tested under mention we suter the sure				

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases		
Final Test Mode	Description	
Mode 1	normal link mode	
Mode 2	CH00(2402MHz)	
Mode 3	CH39(2441MHz)	
Mode 4	CH78(2480MHz)	

Note: For radiated test cases, the worst mode data rate 3Mbps 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.

For Conducted Test Cases					
Final Test Mode	Description				
Mode 2	CH00(2402MHz)				
Mode 3	CH39(2441MHz)				
Mode 4	CH78(2480MHz)				
Mode 5	Hopping mode				
Note: The engineering test program was provided and the EUT was programmed to be in continuousl					

transmitting mode.



ACCREDITED Certificate #4298.01

6.1 BLOCK DIAG For AC Conducted		C-1	AE-1 Adapter		.C PLUG				
For Radiated Test 0	Cases								
	EUT								
For Conducted Tes	t Cases								
Measurement Instrument	C-3 EU	IT							
Note: 1. The tempo and this temporary 2. EUT built-ir	rary antenna con antenna connect n battery-powered	or is listed	l in the equipm	nent list.	oard in orde	er to pe	rform co	onducted	test





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	LY-JX058-08U0502000	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	0.8m
C-2	Earphone Cable	NO	NO	1.2m
C-3	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	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.06.16	2023.06.15	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.06.16	2023.06.15	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.16	2024.03.16	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
7	Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	2023.01.12	2024.01.11	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.07	2023.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.04	2023.11.03	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.06.16	2023.06.15	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 Conduction Test equipment

	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	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11 2023.05.06	2023.05.10 2026.05.05	3 year

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.





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

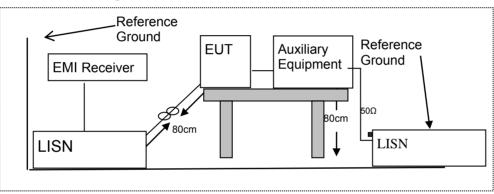
	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

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 Test Configuration



7.1.4 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.

7.1.5 Test Results

Pass





7.1.6 Test Results

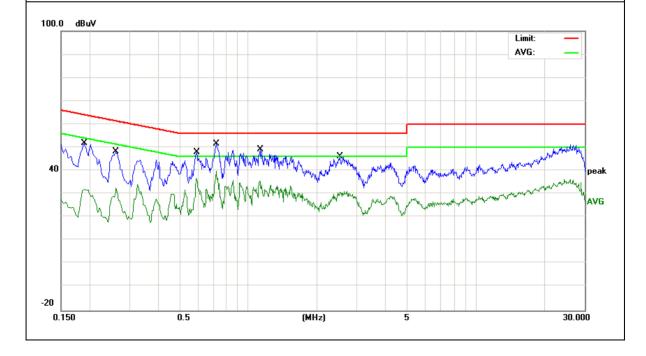
EUT:	4G Tablet	Model Name :	T10L PLUS
Temperature:	22.1 ℃	Relative Humidity:	53%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Eactor	Measure-ment	Limits	Margin	
. ,	-				-	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.1900	42.34	9.65	51.99	64.03	-12.04	QP
0.1900	22.52	9.65	32.17	54.03	-21.86	AVG
0.2620	38.68	9.63	48.31	61.36	-13.05	QP
0.2620	22.95	9.63	32.58	51.36	-18.78	AVG
0.5940	38.23	9.69	47.92	56.00	-8.08	QP
0.5940	27.15	9.69	36.84	46.00	-9.16	AVG
0.7220	41.95	9.74	51.69	56.00	-4.31	QP
0.7220	29.98	9.74	39.72	46.00	-6.28	AVG
1.1260	39.39	9.75	49.14	56.00	-6.86	QP
1.1260	25.91	9.75	35.66	46.00	-10.34	AVG
2.5300	36.50	9.73	46.23	56.00	-9.77	QP
2.5300	21.49	9.73	31.22	46.00	-14.78	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



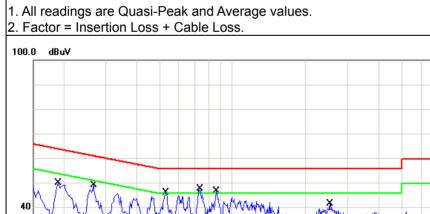


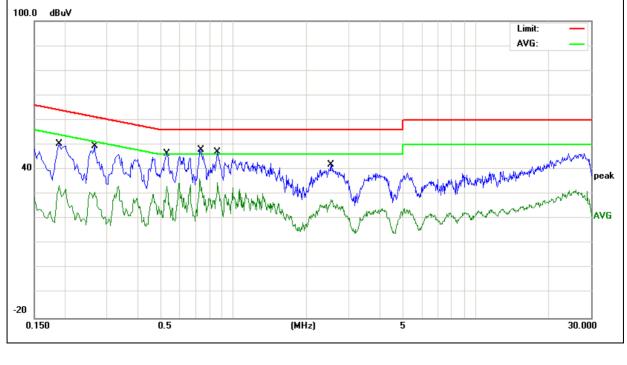


EUT:	4G Tablet	Model Name :	T10L PLUS
Temperature:	22.1℃	Relative Humidity:	53%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

	T					1
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1900	40.66	9.63	50.29	64.03	-13.74	QP
0.1900	23.86	9.63	33.49	54.03	-20.54	AVG
0.2660	39.67	9.65	49.32	61.24	-11.92	QP
0.2660	21.34	9.65	30.99	51.24	-20.25	AVG
0.5299	36.78	9.72	46.50	56.00	-9.50	QP
0.5299	23.50	9.72	33.22	46.00	-12.78	AVG
0.7340	38.26	9.65	47.91	56.00	-8.09	QP
0.7340	26.73	9.65	36.38	46.00	-9.62	AVG
0.8580	37.25	9.69	46.94	56.00	-9.06	QP
0.8580	25.16	9.69	34.85	46.00	-11.15	AVG
2.5260	32.40	9.69	42.09	56.00	-13.91	QP
2.5260	18.17	9.69	27.86	46.00	-18.14	AVG

Remark:









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	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	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								

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)					
Frequency(imrz)	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.



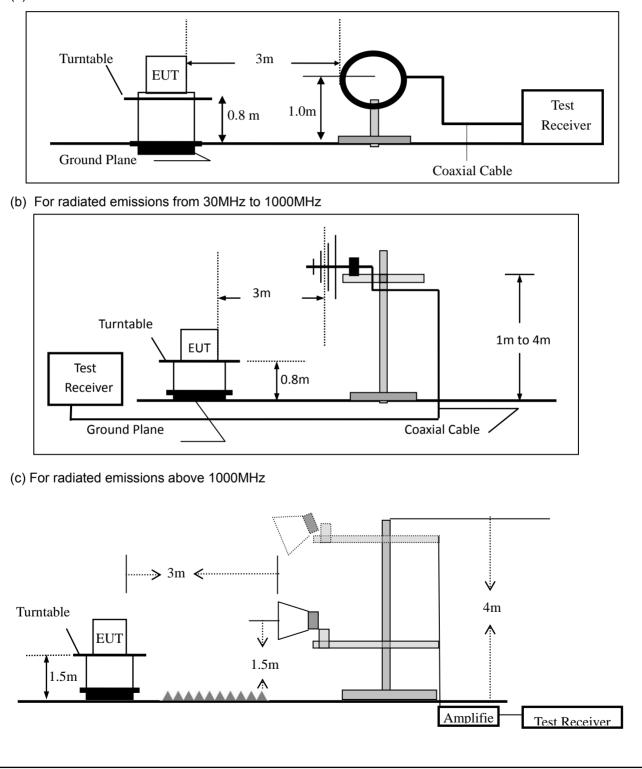


7.2.3 Measuring Instruments

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:

ele ale lenewing opeen and analyzer beamig	5.					
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 / 1 MHz 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:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	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:	4G Tablet	Model No.:	T10L PLUS
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee

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

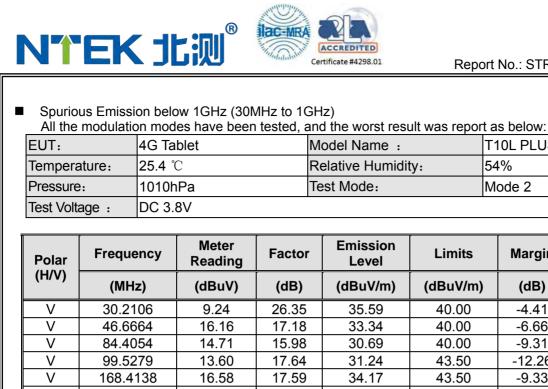
Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

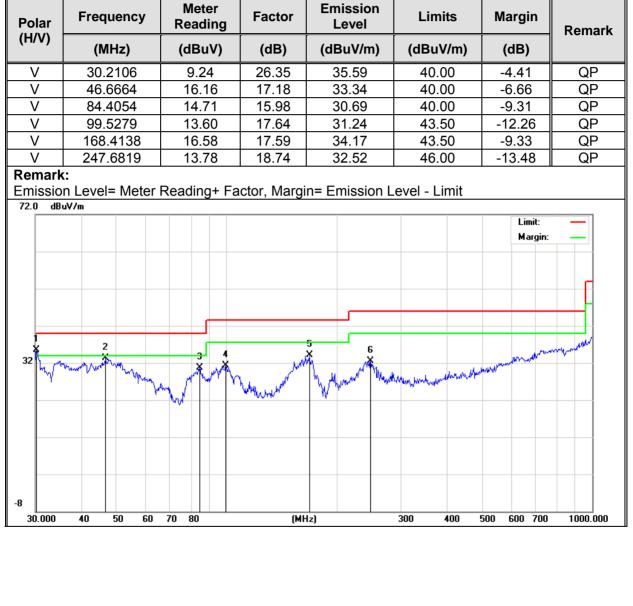


T10L PLUS

54%

Mode 2









(H/V) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dB) H 30.4237 9.24 26.23 35.47 40.00 -9.86 H 39.9941 9.12 21.02 30.14 40.00 -9.86 H 170.7923 14.45 17.44 31.89 43.50 -11.61 H 249.4250 15.58 18.90 34.48 46.00 -13.86 H 370.7022 9.55 22.59 32.14 46.00 -7.29 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit -7.29 -7.29	emark		argin	Mai	s	Limits	L	ssion vel		ctor	Fac		/lete eadi		,	Frequency		-	Polar	
H 39.9941 9.12 21.02 30.14 40.00 -9.86 H 170.7923 14.45 17.44 31.89 43.50 -11.61 H 249.4250 15.58 18.90 34.48 46.00 -11.52 H 370.7022 9.55 22.59 32.14 46.00 -13.86 H 952.0937 7.33 31.38 38.71 46.00 -7.29 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit -7.29 -7.29 -7.29			(dB)		/m)	(dBuV/m)		(dBuV/m)		(dB) (d		(dBuV)			(MHz)		V) [(H/V)		
H 170.7923 14.45 17.44 31.89 43.50 -11.61 H 249.4250 15.58 18.90 34.48 46.00 -11.52 H 370.7022 9.55 22.59 32.14 46.00 -13.86 H 952.0937 7.33 31.38 38.71 46.00 -7.29 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit	QP	(4.53	-4.)	40.00	4	.47	3	.23	26	1	9.24	9		37	.42	30		H
H 249.4250 15.58 18.90 34.48 46.00 -11.52 H 370.7022 9.55 22.59 32.14 46.00 -13.86 H 952.0937 7.33 31.38 38.71 46.00 -7.29 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit Imit: Margin: Margin: 72.0 dBuV/m dBuV/m data data data data data	QP	(9.86	-9.)	40.00	4	.14	3	.02	21	2	9.12	9		41	.99	39		H
H 370.7022 9.55 22.59 32.14 46.00 -13.86 H 952.0937 7.33 31.38 38.71 46.00 -7.29 Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 72.0 dBuV/m	QP	(11.61	-11)	43.50	4	.89	3	.44	17	5	4.4	1		923	0.79	170		H
H 952.0937 7.33 31.38 38.71 46.00 -7.29 Remark:	QP	(11.52	-11)	46.00	4	.48	3	.90	18	8	5.5	1		250	9.42	249		H
Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 72.0 dBuV/m	QP	(13.86	-13)	46.00	4	.14	3	.59	22	5	9.55	ļ)22).70	370		H
Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit 72.0 dBuV/m Limit: - Margin: - Margin: -	QP	(7.29	-7.)	46.00	4	.71	3	.38	31	3	7.33			937	2.09	952		H
		in:	Margin:																	
	e												ſ				_			
	u M	Mannaha				5		4 X	3				Lſ						έ	
			Y Map Patrick	Manual	and wowend	Man Man	Mu m	1 Martin Martin	×.	.n.M							4	Z X	W. Annolay	32
							e	יזיי וק	· · ·	Malina .	Vivrey with the	Anant	المر			Ne.	No.	Ver the s		
													N. Mar	monders	my	. When				
8																				8





EUT:	4G Ta	blet		Model	No.:	T10L	PLUS			
emperature:	20 ℃			Relativ	e Humidity	: 48%	48%			
Fest Mode:	2/Mode3	3/Mode4	Test B	Test By:		Mukzi Lee				
Il the modulatio	n modes	have be	en tested			was repor	t as belov	N:		
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)			
		L	ow Channe	el (2402 Mł	Hz)(8-DPSK)Above 1G				
4804	68.12	5.21	35.59	44.30	64.62	74.00	-9.38	Pk	Vertical	
4804	49.75	5.21	35.59	44.30	46.25	54.00	-7.75	AV	Vertical	
7206	70.16	6.48	36.27	44.60	68.31	74.00	-5.69	Pk	Vertical	
7206	45.67	6.48	36.27	44.60	43.82	54.00	-10.18	AV	Vertical	
4804	70.85	5.21	35.55	44.30	67.31	74.00	-6.69	Pk	Horizontal	
4804	50.4	5.21	35.55	44.30	46.86	54.00	-7.14	AV	Horizontal	
7206	69.33	6.48	36.27	44.52	67.56	74.00	-6.44	Pk	Horizontal	
7206	48.13	6.48	36.27	44.52	46.36	54.00	-7.64	AV	Horizonta	
Mid Channel (2441 MHz)(8-DPSK)Above 1G										
4882	69.09	5.21	35.66	44.20	65.76	74.00	-8.24	Pk	Vertical	
4882	45.36	5.21	35.66	44.20	42.03	54.00	-11.97	AV	Vertical	
7323	70.58	7.10	36.50	44.43	69.75	74.00	-4.25	Pk	Vertical	
7323	47.37	7.10	36.50	44.43	46.54	54.00	-7.46	AV	Vertical	
4882	68.08	5.21	35.66	44.20	64.75	74.00	-9.25	Pk	Horizontal	
4882	46.1	5.21	35.66	44.20	42.77	54.00	-11.23	AV	Horizontal	
7323	68.75	7.10	36.50	44.43	67.92	74.00	-6.08	Pk	Horizontal	
7323	49.12	7.10	36.50	44.43	48.29	54.00	-5.71	AV	Horizontal	
		Н	igh Channe	l (2480 Mł	Hz)(8-DPSK) Above 10	6			
4960	70.33	5.21	35.52	44.21	66.85	74.00	-7.15	Pk	Vertical	
4960	45.31	5.21	35.52	44.21	41.83	54.00	-12.17	AV	Vertical	
7440	69.54	7.10	36.53	44.60	68.57	74.00	-5.43	Pk	Vertical	
7440	47.37	7.10	36.53	44.60	46.40	54.00	-7.60	AV	Vertical	
4960	70.19	5.21	35.52	44.21	66.71	74.00	-7.29	Pk	Horizontal	
4960	48.06	5.21	35.52	44.21	44.58	54.00	-9.42	AV	Horizontal	
7440	69.42	7.10	36.53	44.60	68.45	74.00	-5.55	Pk	Horizontal	
7440	45.91	7.10	36.53	44.60	44.94	54.00	-9.06	AV	Horizontal	

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.





Report No.: STR230329003001E

Spurious	Emission ir	n Restric	ted Band	2310-239	0MHz and	2483.5-	2500MHz		
EUT:	4G Tablet			Mode	el No.:	Т	10L PLUS		
Temperature:	20 ℃			Rela	Relative Humidity: 48%				
Test Mode:	Mode2/ M	ode4		Test	t By: Mukzi Lee				
All the modul	ation mode	es have	been teste	ed, and th	e worst res	ult was	report as be	low:	
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limit	s Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/	′m) (dB)	Туре	
			ЗN	lbps(8-DP	SK)-Non-hop	ping			
2310.00	70.13	2.97	27.80	43.80	57.10	74	-16.90	Pk	Horizontal
2310.00	45.9	2.97	27.80	43.80	32.87	54	-21.13	AV	Horizontal
2310.00	69.06	2.97	27.80	43.80	56.03	74	-17.97	Pk	Vertical
2310.00	47.39	2.97	27.80	43.80	34.36	54	-19.64	AV	Vertical
2390.00	68.12	3.14	27.21	43.80	54.67	74	-19.33	Pk	Vertical
2390.00	48.71	3.14	27.21	43.80	35.26	54	-18.74	AV	Vertical
2390.00	69.37	3.14	27.21	43.80	55.92	74	-18.08	Pk	Horizontal
2390.00	47	3.14	27.21	43.80	33.55	54	-20.45	AV	Horizontal
2483.50	70.45	3.58	27.70	44.00	57.73	74	-16.27	Pk	Vertical
2483.50	47.85	3.58	27.70	44.00	35.13	54	-18.87	AV	Vertical
2483.50	68.29	3.58	27.70	44.00	55.57	74	-18.43	Pk	Horizontal
2483.50	47.96	3.58	27.70	44.00	35.24	54	-18.76	AV	Horizontal
			:	3Mbps(8-I	DPSK)-hoppi	ng			
2310.00	70.74	2.97	27.80	43.80	57.71	74	-16.29	Pk	Horizontal
2310.00	45.13	2.97	27.80	43.80	32.10	54	-21.90	AV	Horizontal
2310.00	70.59	2.97	27.80	43.80	57.56	74	-16.44	Pk	Vertical
2310.00	50.58	2.97	27.80	43.80	37.55	54	-16.45	AV	Vertical
2390.00	70.45	3.14	27.21	43.80	57.00	74	-17.00	Pk	Vertical
2390.00	47.61	3.14	27.21	43.80	34.16	54	-19.84	AV	Vertical
2390.00	68.8	3.14	27.21	43.80	55.35	74	-18.65	Pk	Horizontal
2390.00	45.95	3.14	27.21	43.80	32.50	54	-21.50	AV	Horizontal
2483.50	70.66	3.58	27.70	44.00	57.94	74	-16.06	Pk	Vertical
2483.50	48.59	3.58	27.70	44.00	35.87	54	-18.13	AV	Vertical
2483.50	68.11	3.58	27.70	44.00	55.39	74	-18.61	Pk	Horizontal
2483.50	46.63	3.58	27.70	44.00	33.91	54	-20.09	AV	Horizontal

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





EU	T:	4G Ta	ablet		Model	Model No.:		T10L PLUS			
Ter	nperature:	20 ℃	Relativ	/e Humidit	y:	48%					
Tes	t Mode:	Test B	y:		Muk	zi Lee					
All	the modula	ation mode	s have b	een testec	l, and the	worst res	ult wa	is rep	ort as be	low:	
	Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	nits	Margin	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре	
	3260	68.25	4.04	29.57	44.70	57.16	74	4	-16.84	Pk	Vertical
	3260	47.99	4.04	29.57	44.70	36.90	54	4	-17.10	AV	Vertical
	3260	70.31	4.04	29.57	44.70	59.22	74	4	-14.78	Pk	Horizontal
	3260	50.37	4.04	29.57	44.70	39.28	54	4	-14.72	AV	Horizontal
	3332	69.54	4.26	29.87	44.40	59.27	74	4	-14.73	Pk	Vertical
	3332	50.29	4.26	29.87	44.40	40.02	54	4	-13.98	AV	Vertical
	3332	68.06	4.26	29.87	44.40	57.79	74	4	-16.21	Pk	Horizontal
	3332	49.76	4.26	29.87	44.40	39.49	54	4	-14.51	AV	Horizontal
	17797	56.48	10.99	43.95	43.50	67.92	74	4	-6.08	Pk	Vertical
	17797	37.38	10.99	43.95	43.50	48.82	54	4	-5.18	AV	Vertical
	17788	49.44	11.81	43.69	44.60	60.34	74	4	-13.66	Pk	Horizontal
	17788	32.53	11.81	43.69	44.60	43.43	54	4	-10.57	AV	Horizontal

Certificate #4298.01

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





7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and ANSI C63.10-2013

7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

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 ANSI C63.10-2013 clause 7.8.3 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 must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW : To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW ≥ RBW

Sweep = auto

Detector function = peak Trace = max hold

7.3.6 Test Results

EUT:	4G Tablet	Model No.:	T10L PLUS
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Mukzi Lee





7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.4.2 Conformance Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

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 testing follows ANSI C63.10-2013 clause 7.8.2 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 = Measurement Bandwidth or Channel Separation RBW: Start with the RBW set to approximately 3% of the channel spacing; adjust as necessary to best identify the center of each individual channel. VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.4.6 Test Results

EUT:	4G Tablet	Model No.:	T10L PLUS
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee





7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and ANSI C63.10-2013

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

Certificate #4298.01

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 ANSI C63.10-2013 clause 7.8.4 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 must have its hopping function enabled. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel RBW \geq 1MHz VBW \geq RBW Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak Trace = max hold Measure the maximum time duration of one single pulse. Set the EUT for DH5, DH3 and DH1 packet transmitting. Measure the maximum time duration of one single pulse.





7.5.6 Test Results

EUT:	4G Tablet	Model No.:	T10L PLUS
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee

Test data reference attachment.

Note:

A Period Time = (channel number)*0.4

DH1 Dwell time: Reading * (1600/2)*31.6/(channel number) DH3 Dwell time: Reading * (1600/4)*31.6/(channel number) DH5 Dwell time: Reading * (1600/6)*31.6/(channel number)

For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time





7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.6.2 Conformance Limit

No limit requirement.

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 ANSI C63.10-2013 clause 6.9.2 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 = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.6.6 Test Results

EUT:	4G Tablet	Model No.:	T10L PLUS
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee





7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

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 ANSI C63.10-2013 clause 7.8.5.

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 = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW \geq the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	4G Tablet	Model No.:	T10L PLUS
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mukzi Lee





7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

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

7.8.2 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

7.8.3 Measuring Instruments

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

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

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 must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

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.

7.8.6 Test Results

EUT:	4G Tablet	Model No.:	T10L PLUS
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mukzi Lee





7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

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

7.9.2 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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

7.9.3 Measuring Instruments

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

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.

b) Set the RBW = 100 kHz.

c) Set the VBW \geq [3 × RBW].

d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level. Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

Remark: The measurement frequency range is from 30MHzHz 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.





7.10 ANTENNA APPLICATION

7.10.1 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.

7.10.2 Result

The EUT antenna is permanent attached PIFA antenna (Gain: 1.13 dBi). It comply with the standard requirement.

NTEK北测



7.11 FREQUENCY HOPPING SYSTEM (FHSS) EQUIPMENT REQUIREMENTS 7.11.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals. (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section. (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

7.11.2 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule. This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each: centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock. Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with an bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for FCC Part 15.247 rule.

7.11.3 EUT Pseudorandom Frequency Hopping Sequence

Pseudorandom Frequency Hopping Sequence Table as below: Channel: 08, 24, 40, 56, 40, 56, 72, 09, 01, 09, 33, 41, 33, 41, 65, 73, 53, 69, 06, 22, 04, 20, 36, 52, 38, 46, 70, 78, 68, 76, 21, 29, 10, 26, 42, 58, 44, 60, 76, 13, 03, 11, 35, 43, 37, 45, 69, 77, 55, 71, 08, 24, 08, 24, 40, 56, 40, 48, 72, 01, 72, 01, 25, 33, 12, 28, 44, 60, 42, 58, 74, 11, 05, 13, 37, 45 etc.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.





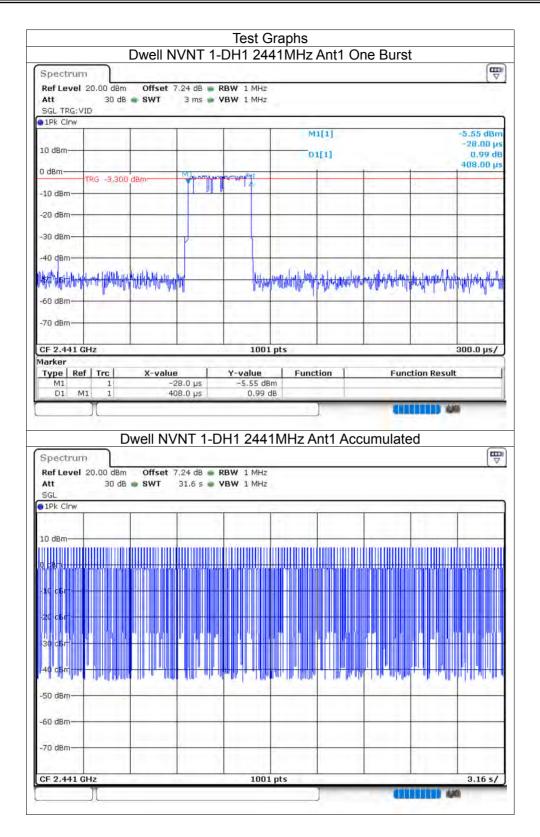
8 TEST RESULTS

8.1 **DWELL TIME**

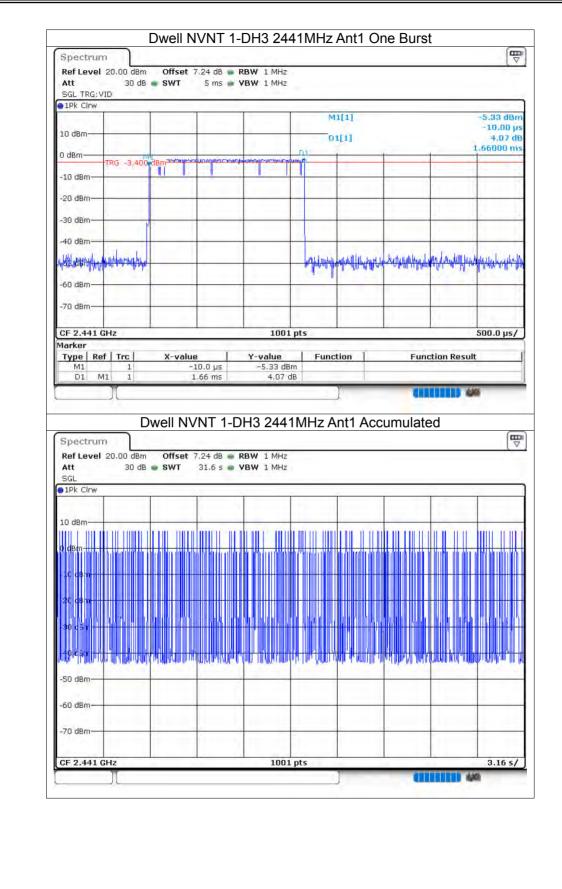
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.408	79.56	195	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.66	195.88	118	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.912	270.816	93	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.399	81.396	204	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.65	201.3	122	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.896	249.056	86	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.396	78.408	198	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.645	210.56	128	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.904	249.744	86	31600	400	Pass



Certificate #4298.01

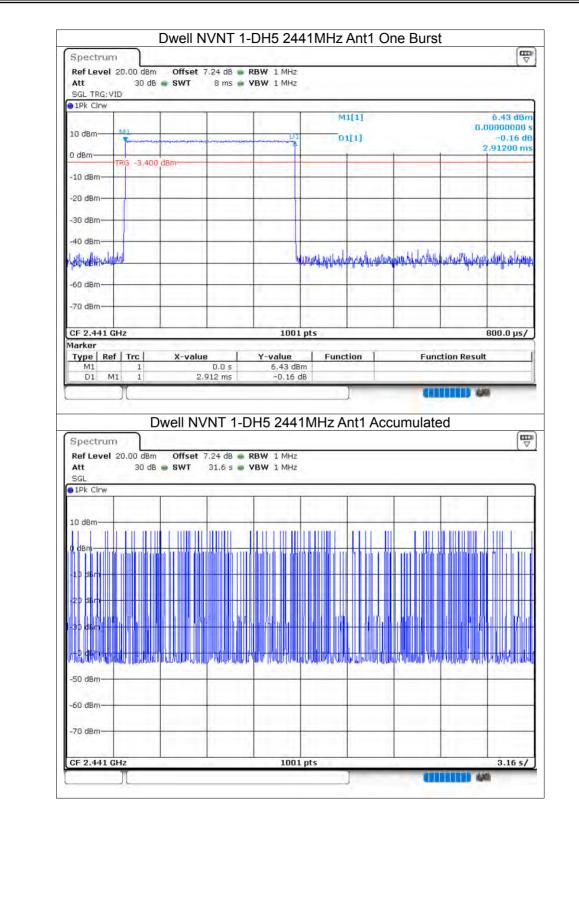




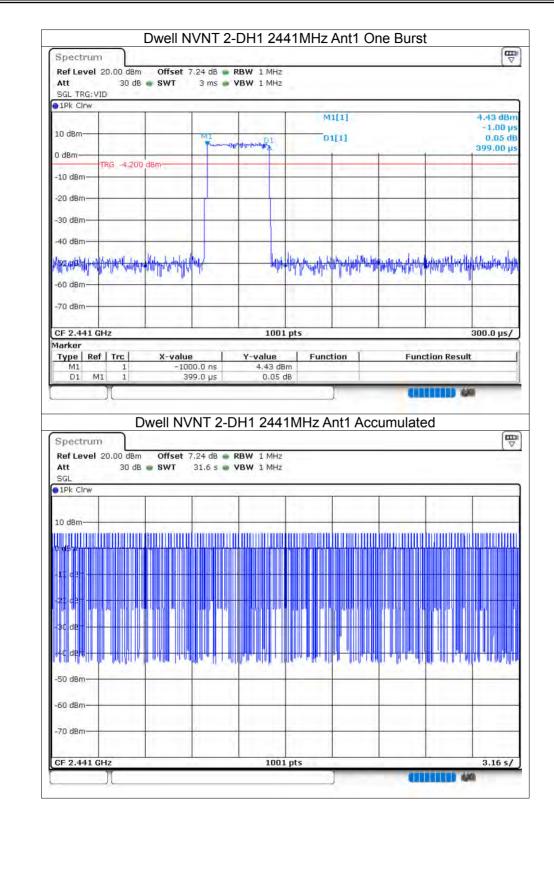




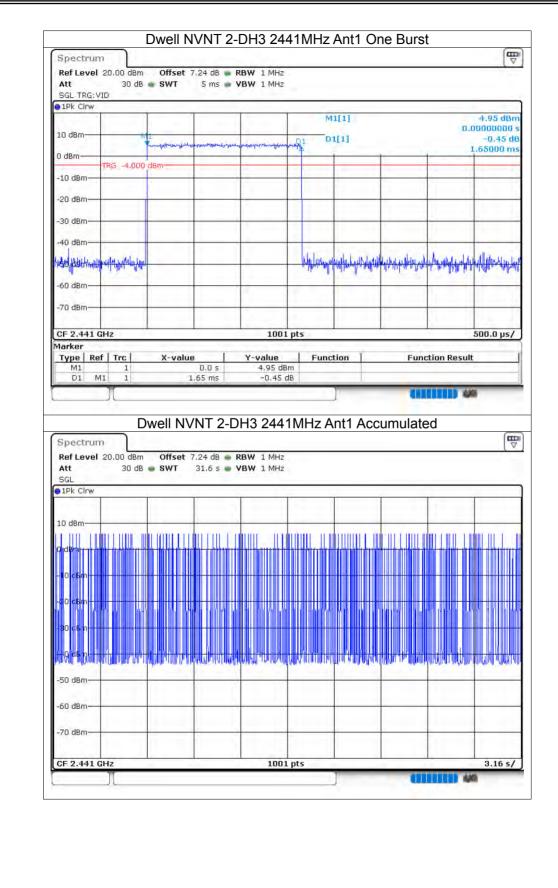
Certificate #4298.01



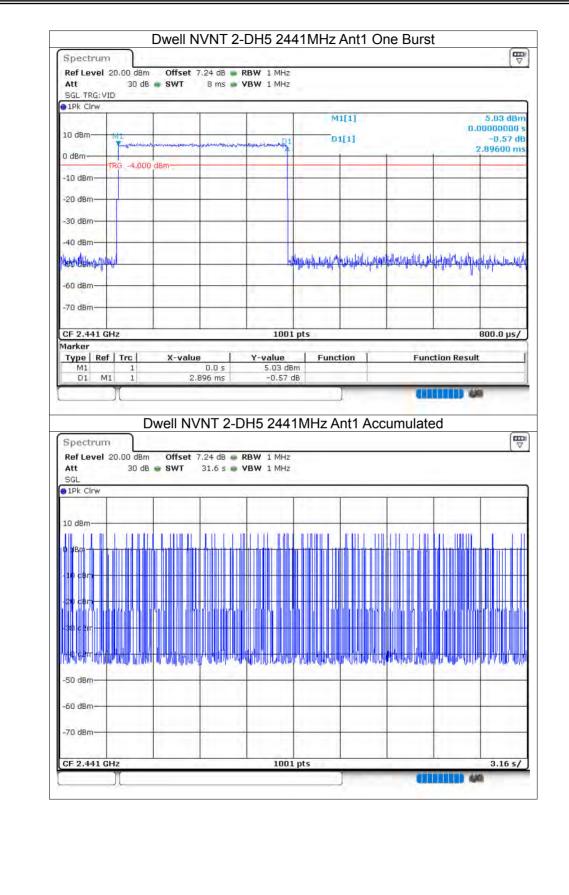




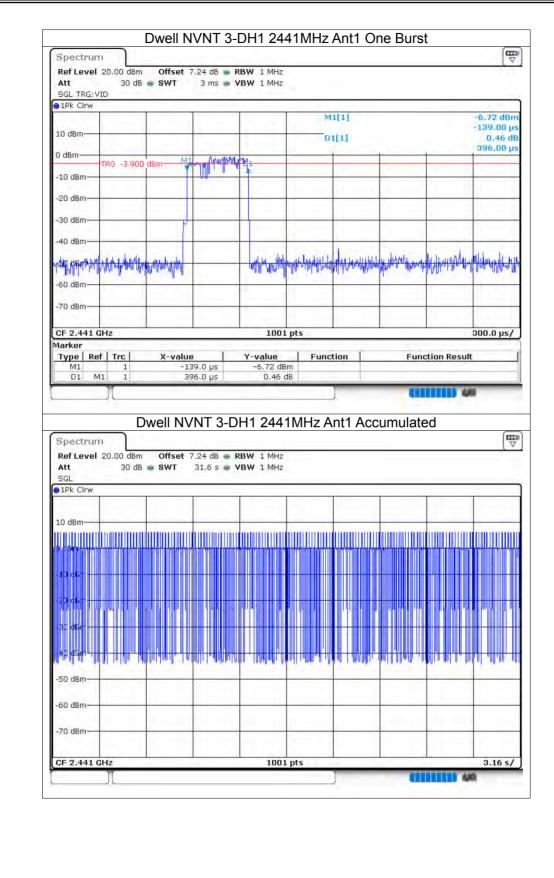




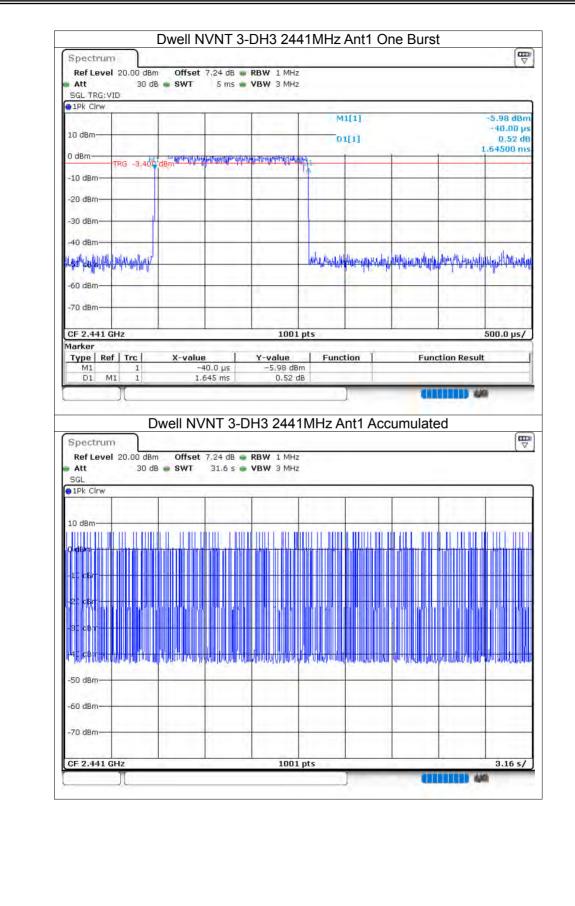




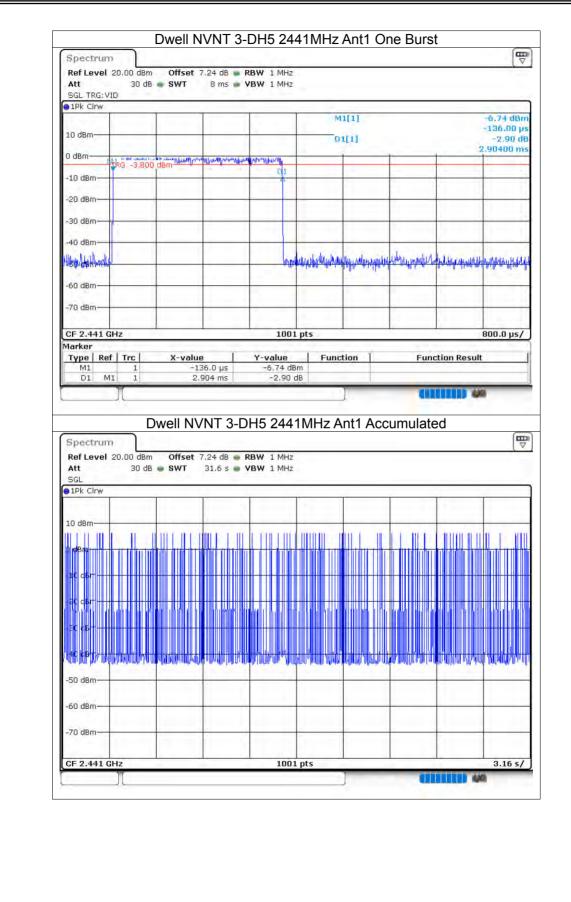
















8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	7.6	0	7.6	21	Pass
NVNT	1-DH5	2441	Ant1	6.63	0	6.63	21	Pass
NVNT	1-DH5	2480	Ant1	6.19	0	6.19	21	Pass
NVNT	2-DH5	2402	Ant1	7.94	0	7.94	21	Pass
NVNT	2-DH5	2441	Ant1	6.78	0	6.78	21	Pass
NVNT	2-DH5	2480	Ant1	6.71	0	6.71	21	Pass
NVNT	3-DH5	2402	Ant1	8.02	0	8.02	21	Pass
NVNT	3-DH5	2441	Ant1	6.87	0	6.87	21	Pass
NVNT	3-DH5	2480	Ant1	6.79	0	6.79	21	Pass





Spectrum				/NT 1-DH					E
Ref Level 20. Att SGL Count 100	30 dB		.07 dB 🐞 R 1 ms 🖕 Y		Mode Auto S	weep			
1Pk Max		_	1	(_		_	a ca da
tre-11			1 2 1	0.41	M1[1			2.401	7,60 dBr 99500 GH
10 dBm			-						1
0 dBm					_	_		-	
-10 dBm	-					-			
-20 dBm						-			
-30 dBm	-					_			
-40 dBm									
-50 dBm									
-60 dBm									
-70 dBm									
1. Contract 1. Con									
CF 2.402 GHz		Po	wer NV	1001 p		Hz Ar	ut1	Spa	
Spectrum Ref Level 20. Att	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	/NT 1-DH BW 2 MHz		_	t1	Spa	
Spectrum Ref Level 20.	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	/NT 1-DH BW 2 MHz	5 2441M Mode Auto S	weep	ut1	Spa	
Spectrum Ref Level 20. Att SGL Count 100	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH] 5 2441M	weep	it1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 1Pk Max 10 dBm-	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	/NT 1-DH BW 2 MHz	5 2441M Mode Auto S	weep	ut1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 1Pk Max	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M Mode Auto S	weep	ıt1		6.63 dBr
Spectrum Ref Level 20. Att SGL Count 100 1Pk Max 10 dBm-	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M Mode Auto S	weep	at1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 1Pk Max 10 dBm 0 dBm	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M Mode Auto S	weep	at1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 1Pk Max 10 dBm 0 dBm	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M Mode Auto S	weep	t1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M Mode Auto S	weep	t1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M Mode Auto S	weep	t1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 SGL Count 100 IPk Max 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -40 dBm	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M Mode Auto S	weep	t1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 IPk Max 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	.00 dBm 30 dB	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M Mode Auto S	weep	t1		6,63 dBr
Spectrum Ref Level 20. Att SGL Count 100 IPk Max 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	00 dBm 30 dB 2/100	Offset 7	.24 dB 🐞 R	INT 1-DH	5 2441M	weep	.t1	2.440	6,63 dBr





Spectrum Ref Level 20.00 di	Bm Offset 7.	.07 dB 👜 RBW	2 MHz		_		[a
Att 30 SGL Count 100/100 1Pk Max		1 ms 🖷 YBW	2 MHz Moo	le Auto Sweep			
			100	M1[1]	1	2.479	6,19 dB 80520 GH
10 dBm-			MI				
0 dBm							
10 dBm			-		1		
-20 dBm	-						
-30 dBm		1			-		
-40 dBm							
-50 dBm							
-60 dBm							
-70 dBm							
CF 2.48 GHz		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1001 pts			Spa	n 5.0 MH
Spectrum Ref Level 20.00 di	Bm Offset 7.	.07 dB 💼 RBW	2 MHz] 2402MHz .			a Q
	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz	2402MHz /			a (a
Ref Level 20.00 dl Att 30 SGL Count 100/100	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	2.111		2,402	7.94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz	de Auto Sweep		2,402	7,94 dB
Ref Level 20.00 di Att 30 SGL Count 100/100 1Pk Max 30	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2,402	7,94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2,402	7,94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 10 dBm 0	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2,402	7,94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 10 dBm 0 -10 dBm -10	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2,402	7,94 dBi 16230 GH
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 30 10 dBm 0 -10 dBm	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2,402	7.94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 30 10 dBm 0 -10 dBm	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2,402	7,94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 30 10 dBm 0 -10 dBm	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2,402	7,94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 30 10 dBm 0 -10 dBm	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2,402	7,94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 dBm 0 dBm	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep		2.402	7.94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 dBm 10 dBm 0 dBm -10 dBm -0 dBm -20 dBm -30 dBm -30 dBm -40 dBm -60 dBm -60 dBm	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz Mor	de Auto Sweep			7.94 dB
Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 dBm 0 dBm - - -10 dBm - - -20 dBm - - -30 dBm - - -60 dBm - -	Bm Offset 7. dB SWT	.07 dB 💼 RBW	2 MHz 2 MHz Moo	de Auto Sweep			7,94 dB



Spectrum Ref Level 20.00 Att	D dBm Offset 30 dB SWT	7.24 dB 💼 R 1 ms 🖷 V		Mode 4	uto Sween	Č		0
SGL Count 100/				A A				_
					M1[1]		7 441	6,78 dB
10 dBm			Lucie const	M1		1	2.441	07790 6
0 dBm		-			and	manne		
	and the second sec						and	
-10 dBm			-					and and a second second
20 dBm		-	-	-	-	-		- And
-30 dBm	_		-				1	
	-			100				
-40 dBm						-		
-50 dBm				-				
-60 dBm				_	-			
-70 dBm				1.1.1				
CF 2.441 GHz			100:	L pts	1		Spa	n 6.5 MH
	D dBm Offset 30 dB SWT	7.07 dB R 1 ms Y	BW 2 MHz	5.3		Ant1		[1
Ref Level 20.00	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A		Ant1		
Ref Level 20.00 Att SGL Count 100/	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2,480	6,71 dB
Ref Level 20.00 Att SGL Count 100/ 1Pk Max	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2,480	6,71 dB
Ref Level 20.00 Att SGL Count 100/ 1Pk Max	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2.480	6,71 dB
Ref Level 20.00 Att SGL Count 100/ 1Pk Max	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2,480	6.71 dB 08440 GI
Ref Level 20.00 Att SGL Count 100/ 1Pk Max 10 dBm 0 dBm	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep		2,480	6,71 dB
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 100/ 1Pk Max 10 dBm 10 dBm 0 -10 dBm	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2,480	6.71 dB 08440 GI
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 100/ 1Pk Max 1000000000000000000000000000000000000	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2,480	6.71 dB 08440 GI
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 100/ 1Pk Max 10 dBm 10 dBm 0 -10 dBm	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2,480	6.71 dB 08440 GI
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 100/ 1Pk Max 1000000000000000000000000000000000000	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2.480	6.71 dB 08440 GI
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 100/ 10 dBm 0 10 dBm 0 -10 dBm 0 -20 dBm 0 -30 dBm 0 -40 dBm 0	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2,480	6.71 dB 08440 GI
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 10 dBm 10 dBm 0 0 dBm 0 -10 dBm 0 -30 dBm 0 -30 dBm 0 -50 dBm 0	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2.480	6.71 dB 08440 GI
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 100/ 10 dBm 0 10 dBm 0 -10 dBm 0 -20 dBm 0 -30 dBm 0 -40 dBm 0	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz	Mode A	uto Sweep	Ant1	2,480	6.71 dB 08440 GI
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 10 dBm 10 dBm 0 0 dBm 0 -10 dBm 0 -30 dBm 0 -30 dBm 0 -50 dBm 0	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz BW 2 MHz	Mode A	uto Sweep	Ant1		6,71 dB
Ref Level 20.00 Att SGL Count 100/ SGL Count 100/ 100/ 10 dBm 0 0 -10 dBm 0 0 -20 dBm 0 0 -30 dBm 0 0 -40 dBm 0 0 -50 dBm 0 0 -60 dBm 0 0	D dBm Offset 30 dB SWT	7.07 dB 🐞 R	BW 2 MHz BW 2 MHz	Mode A	uto Sweep	Ant1		6.71 dB 08440 G)





Att SGL Count	30 dB		07 dB 🐞 RB 1 ms 🛖 VB		Mode A	uto Sweep			
●1Pk Max			1			M1[1]		-	8.02 dB
10 dBm				M		1	-	2.401	94160 G
		inter	rementering	A STREET AND AND A STREET	www.w.www.	and a contraction of the second	man	1	
0 dBm	internet	- Andrews		-		-		Marine	
-10 dBm	ment		· · · · · ·		_			m	-
The Martin and a start of the s									and the second
-20 dBm									
-30 dBm								1	
	2.21							1 === 1	
-40 dBm		_							
-50 dBm									
							1		
-60 dBm			1				1		
-70 dBm				-		-	-	-	
					_				i en
CF 2.402 (GHz			1001	pts	_		Spa	n 6.5 MH
Spectrun Ref Level Att		Offset 7.		W 2 MHz			Ant1		[
Ref Level	20.00 dBm 30 dB	Offset 7.	A. A.	W 2 MHz			Ant1		[0
Ref Level Att SGL Count	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A		Ant1	2.440	6,87 dB
Ref Level Att SGL Count	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2,440	6,87 dB
Ref Level Att SGL Count 1Pk Max	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2.440	6,87 dB
Ref Level Att SGL Count 1Pk Max 10 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2,440	6,87 dB
Ref Level Att SGL Count 1Pk Max	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2.440	6,87 dB
Ref Level Att SGL Count 1Pk Max 10 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2.440	6,87 dB
Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -10 dBm -20 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2,440	6,87 dB
Ref Level Att SGL Count 1Pk Max 10 dBm- 0 dBm- -10 dBm-	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2.440	6,87 dB
Ref Level Att SGL Count 10 dBm 0 dBm -10 dBm -10 dBm -20 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2.440	6.87 dB
Ref Level Att SGL Count ID dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2,440	6,87 dB
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2.440	6.87 dB
Ref Level Att SGL Count ID dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2.440	6,87 dB
Ref Level Att SGL Count SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2,440	6,87 dB
Ref Level Att SGL Count I O dBm 0 dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	20.00 dBm 30 dB	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1	2,440	6,87 dB
Ref Level Att SGL Count SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20.00 dBm 30 dB 100/100	Offset 7.	24 dB 🐞 RB	W 2 MHz	Mode A	uto Sweep	Ant1		6.87 dB
Ref Level Att SGL Count SGL Count 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	20.00 dBm 30 dB 100/100	Offset 7.	24 dB 🐞 RB	W 2 MHz 2 MHz MHz	Mode A	uto Sweep			6.87 de 94810 G



0			Spectrum
	Mode Auto Sweep		Ref Level 20.00 dBm Att 30 dB SGL Count 100/100
		· · · · · · · · · · · · · · · · · · ·	1Pk Max
6.79 dB 2.47992860 G	M1[1]		
2.47992000 0			10 dBm
	The second second second second	manner	
7444			0 dBm
the second se			and the second second second
			-10 dBm
and the second second			1. B. S. C. C. C.
			-20 dBm
			-30 dBm-
			SU UDIN
			-40 dBm
			-50 dBm
			-60 dBm
			-70 dBm
			1212
Span 6.5 MH	pts	1001	CF 2.48 GHz





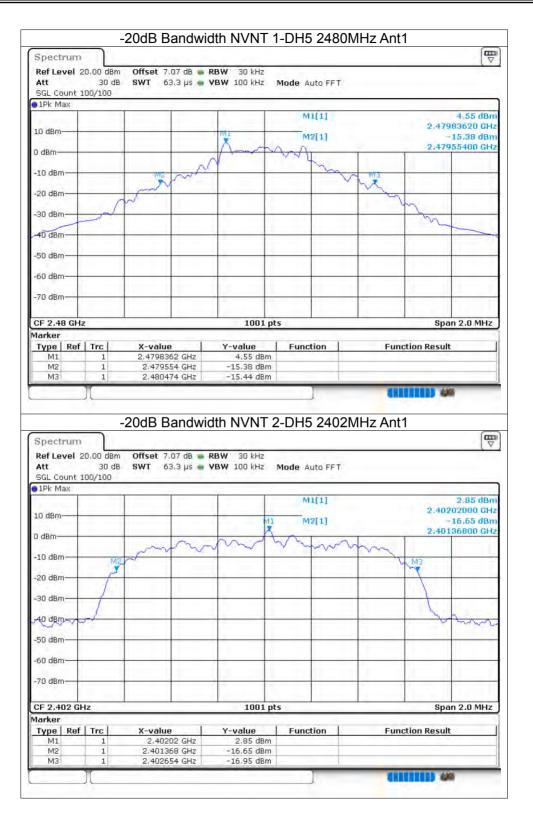
8.3 -20DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.022	Pass
NVNT	1-DH5	2441	Ant1	0.934	Pass
NVNT	1-DH5	2480	Ant1	0.92	Pass
NVNT	2-DH5	2402	Ant1	1.286	Pass
NVNT	2-DH5	2441	Ant1	1.284	Pass
NVNT	2-DH5	2480	Ant1	1.28	Pass
NVNT	3-DH5	2402	Ant1	1.292	Pass
NVNT	3-DH5	2441	Ant1	1.29	Pass
NVNT	3-DH5	2480	Ant1	1.264	Pass

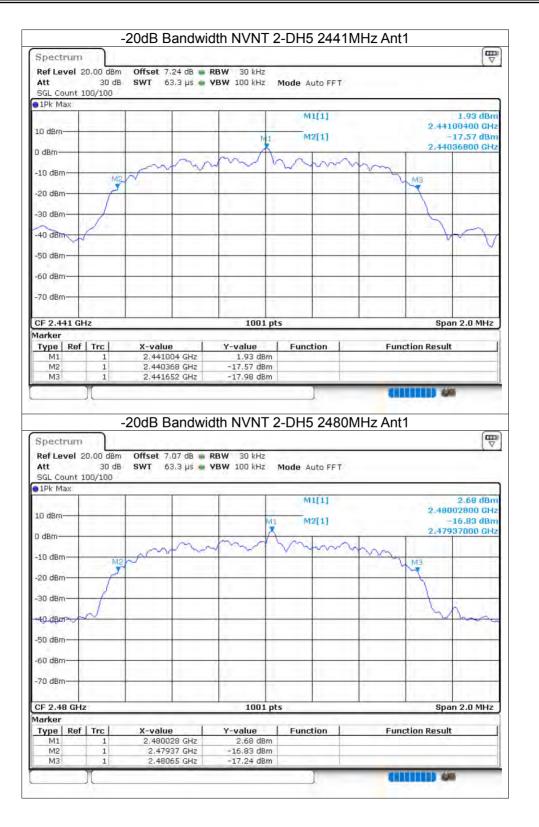




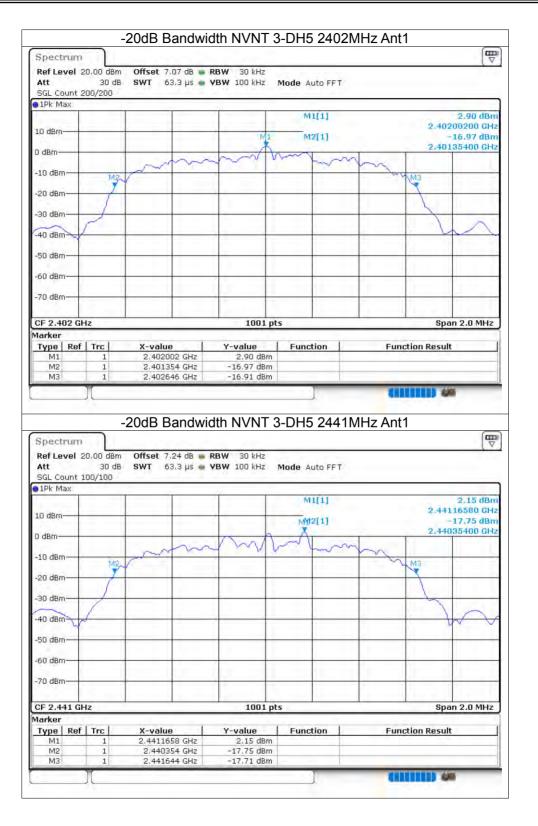














Report No.: STR230329003001E

Spectrum						(W
Ref Level	20.00 dBn	n Offset 7.07 dB	RBW 30 kHz			
Att	30 di	B SWT 63.3 µs 🖷	VBW 100 kHz	Mode Auto FFT		
SGL Count	100/100					
1Pk Max			-			
				M1[1]		2.60 dBn
						2.48002600 GH
			M1	M2[1]		-17.39 dBn
dBm			- A			2.47936000 GH
Gun		1	NnN	m ~	n	1
10 dBm		maria	4.4.4	m.	m	
10 000	M	2			~~	13
20 dBm-	1					
and the second se	1					
30 dBm-						
	~					1
40 dBm	Y					2 m x
Sec. 1						
50 dBm						
60 dBm						
-70 dBm						
1 m m		in the second se	1			10.001
CF 2.48 GH	z		1001 pt:	5		Span 2.0 MHz
larker						
Type Ref	Trc	X-value	Y-value	Function	Funct	ion Result
M1	1	2.480026 GHz	2.60 dBm			
M2	1	2.47936 GHz	-17.39 dBm			
M3	1	2.480624 GHz	-17.26 dBm			

ilac-MR

ACCREDITED Certificate #4298.01





8.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.869
NVNT	1-DH5	2441	Ant1	0.879
NVNT	1-DH5	2480	Ant1	0.869
NVNT	2-DH5	2402	Ant1	1.179
NVNT	2-DH5	2441	Ant1	1.189
NVNT	2-DH5	2480	Ant1	1.191
NVNT	3-DH5	2402	Ant1	1.197
NVNT	3-DH5	2441	Ant1	1.197
NVNT	3-DH5	2480	Ant1	1.179











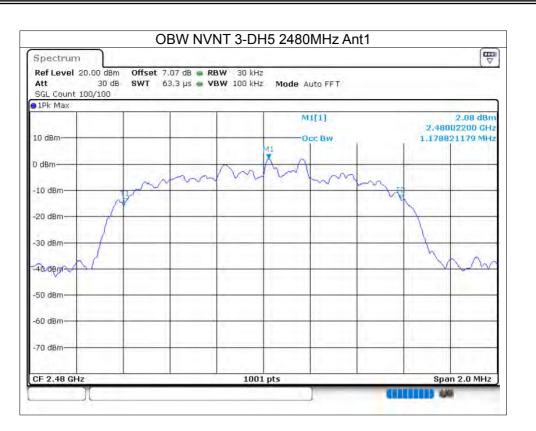
















8.5 **CARRIER FREQUENCIES SEPARATION**

		-					
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.834	2402.834	1	0.681	Pass
NVNT	1-DH5	Ant1	2441.024	2442.024	1	0.623	Pass
NVNT	1-DH5	Ant1	2478.834	2479.836	1.002	0.613	Pass
NVNT	2-DH5	Ant1	2402.028	2403.028	1	0.857	Pass
NVNT	2-DH5	Ant1	2441.084	2442.078	0.994	0.856	Pass
NVNT	2-DH5	Ant1	2479.078	2480.015	0.937	0.853	Pass
NVNT	3-DH5	Ant1	2402	2403.126	1.126	0.861	Pass
NVNT	3-DH5	Ant1	2440.974	2441.914	0.94	0.86	Pass
NVNT	3-DH5	Ant1	2479.028	2480.006	0.978	0.843	Pass



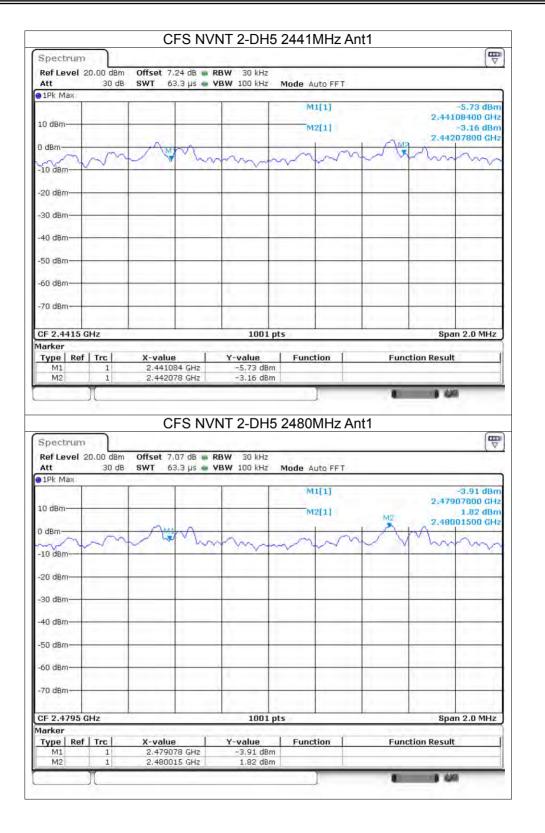




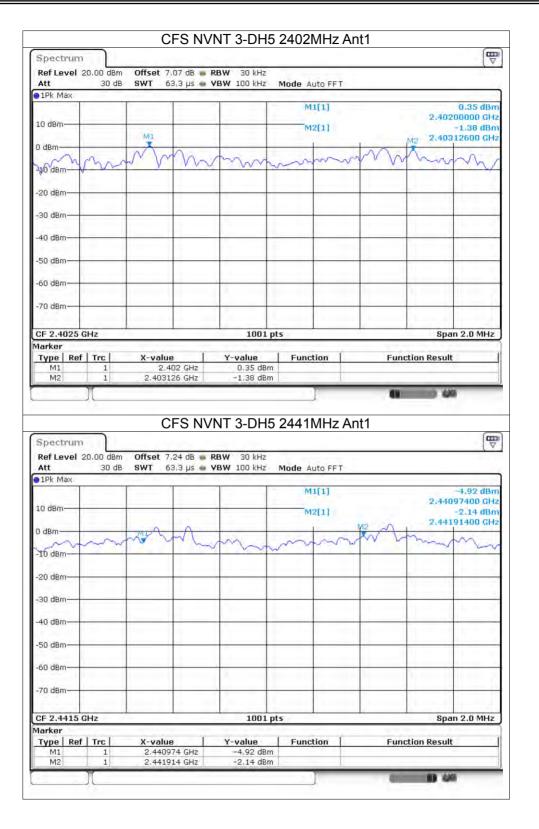




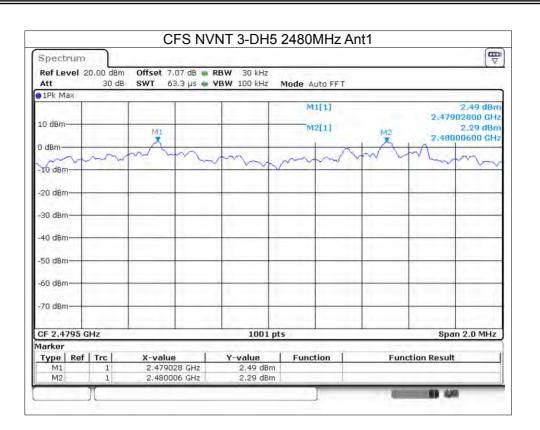
















8.6 NUMBER OF HOPPING CHANNEL

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass



			Honr	ning N		-DH5 2402	MH7 Ar	nt1	
Spect	rum		τισμ		J. INVINT 1	-DIIJ 2402			
Ref Le Att	vel 2	0.00 dBn 30 dB			RBW 100 kHz	Mode Auto Sv	weep		
1Pk M	ax			1					
						M1[1]		2	7.00 dBm .4020040 GHz
10 dBm	0.660	hhnhnh	000000000	ANANANA	ADDADADADA	M2[1]		********	4.95\UBm
) dBm+	HHH			HATAHA	ada ada	000000000000000000000000000000000000000	<u>ANNA ANNA</u>	MARAAAAA	rique movemente
10 dBm	MM	LANALAN	VAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	MAAAAA	<u>IAA na na hahana</u>	VYVVVVVVVVVV	VYYYY	AWWWWW	
LO GEN			_						
20 dBm	J	-	1		1			_	1 1 1 1 1
30 dBm	-		-		-			-	
40 dBm	_		·						
10 001					1.0				
50 dBm									Ander
60 dBrr	1-1-1		-					_	
70 dBm									
/u ubii									
Start 2	.4 GH	łz	4	1	1001	pts		Stop	2.4835 GHz
arker Type		ITes I	X-valu		Y-value	Function	Ť.	Constitute Day	
M1	Rei	1						Function Res	suit
		-	2.402	004 GHz	7.00 dB	n	1		
M2			2,4802	435 GHz	4,95 dB	11	MHz Ar	nt1	440
Spect			2.4802 Hopp	435 GHz	4.95 dB D. NVNT 2	n]	MHz Ar	tt1	W
Spect Ref Le			2,4802 Hopp	435 GHz	4,95 dB	-DH5 2402		nt1	**
Spect Ref Le Att	vel 2	1)	2,4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv		nt1	
Spect Ref Le Att 1Pk M	vel 2	1)	2,4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]			5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M	vel 2 ax	1	2.4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M	vel 2 ax	1	2.4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M	vel 2 ax	1	2.4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M 10 dBm 10 dBm	vel 2 ax	1	2.4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M 10 dBm 10 dBm	vel 2 ax	1	2,4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M 10 dBm 10 dBm 20 dBm	vel 2 ax MMA	1	2,4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 11Pk M 10 dBm 10 dBm 20 dBm 30 dBm		1	2,4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm		1	2,4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 11Pk M 0 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm		1	2,4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 11Pk M 0 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm		1	2.4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M 00 dBm 10 dBm 20 dBm 30 dBm 30 dBm 50 dBm 50 dBm		1	2.4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 1Pk M 0 dBm 20 dBm 30 dBm 30 dBm 50 dBm 50 dBm 50 dBm 50 dBm		1	2.4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1] M2[1] M2[1]	weep	2	5.73 dBm .4020040 GHz 1.64 dBm .4904100 CHz
Spect Ref Le Att 1Pk M 00dBm 20dBm 20dBm 30dBm 30dBm 40dBm 50dBm 60dBm 60dBm		1	2.4802 Hopp	435 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1] M2[1] M2[1]	weep	2	5.73 dBm .4020040 GHz
Spect Ref Le Att 11Pk M 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm 40 dBm 40 dBm 40 dBm 40 dBm 70 dBm 70 dBm 70 dBm			2.4802 Hopp	A35 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1] M2[1]	weep	2	5.73 dBm .4020040 GHz 1.64 dBm .49041002Hz
Spect Ref Le Att) 1Pk M			2.4802 Hopp	A35 GHz	4.95 dB	n -DH5 2402 Mode Auto Sv M1[1] M2[1]	weep	2 AAAAAAAAAAAAA Stop	5.73 dBm .4020040 GHz 1.64 dBm .49041002Hz



Spectrum							
Ref Level 2	0.00 de	m Offset 7.07 dB 🖷	RBW 100 kHz				
Att	30 (dB SWT 1 ms 🖷	VBW 300 kHz	Mode Auto Swe	ер		
1Pk Max							
				M1[1]	2.04 dBn		
10 dBm	3 dBm					2.4016700 GHz	
	1. 100	25 Dealer States		M2[1]		1.29 dBn	
MANANA	Maral	monnanan	MANAHAMAM	Undruddere	Addedadade	MAAA & MARDON ALASH	
J UBIN		10 . BRALBAIRAD	a sh fi a sh s da . i	and slaudans	A B B B C B W O A W W	linka	
10 dBm							
10 0811							
						the second se	
20 dBm			1.1				
						10 11 11 11	
80 dBm						N	
10.10							
40 dBm							
50 dBm				1			
ALC: NO							
60 dBm							
in Second							
70 dBm		1	1				
						A CORP. A Manager &	
Start 2.4 GH	z		1001 pt	s	1	Stop 2.4835 GHz	
larker							
Type Ref	Trc	X-value	Y-value	Function	Function Result		
M1	1	2.40167 GHz	2.04 dBm				
M2	1	2.480494 GHz	1.29 dBm	-			

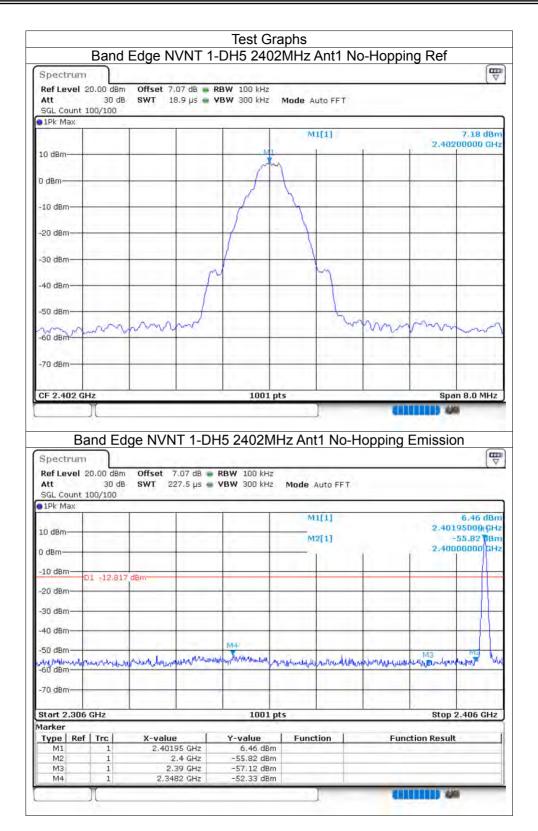




8.7 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-59.5	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.56	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-55.5	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-58.1	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-56.35	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-58.2	-20	Pass







Ref Level Att	20.00 dBm 30 dB			BW 100 kHz BW 300 kHz	Mode A	Ito FET			
SGL Count		011	ыр р у — 1	505 KH2	Moue A	acomi			
1Pk Max						(1997)			
					M	1[1]			5.78 dBn
10 dBm						-		2,480	00800 GH
				1 A	^				
0 dBm				(1				
					1				
-10 dBm					1				
10 March 10					1				
-20 dBm				1	1		-		
				1	1				
-30 dBm			-						
			5			m		1.1111	
-40 dBm	2				-				
-50 dBm						h	A		-
mm	mon	whom	m			"h	~~~~	m	non
-60 dBm			1	1					
70.40									
-70 dBm									
100									
CF 2.48 GH	Z								
Ba	and Ed	ge NVN	IT 1-DH	1001 p 5 2480M		:1 No-H	opping l) ø	n 8.0 MHz
	and Ed	Offset 7	7.07 dB 📦 F		Hz Ant	1 No-H) ø	'n
Spectrum Ref Level Att SGL Count	and Ed	Offset 7	7.07 dB 📦 F	5 2480M	Hz Ant) ø	'n
Spectrum Ref Level Att SGL Count	and Ed	Offset 7	7.07 dB 📦 F	5 2480M	Hz Ant Mode 4	Auto FFT.) ø	n [₩
Spectrum Ref Level Att SGL Count 1Pk Max	and Ed	Offset 7	7.07 dB 📦 F	5 2480M	Hz Ant Mode 4			Emissio	n [₩ 5.70 dBn
Spectrum Ref Level Att SGL Count 1Pk Max	and Ed	Offset 7	7.07 dB 📦 F	5 2480M	Hz Ant Mode /	Auto FFT.		Emissio	5.70 dBn 85000 GH3 55.26 dBn
Spectrum Ref Level Att SGL Count 1Pk Max	and Ed	Offset 7	7.07 dB 📦 F	5 2480M	Hz Ant Mode /	Auto FFT.		Emissio	5.70 dBn 85000 GH3 55.26 dBn
Spectrum Ref Level Att SGL Count 1Pk Max 10\dBm 0 dBm -10 dBm	and Ed 20.00 dBm 30 dB 100/100	Offset 3 SWT 23	7.07 dB 📦 F	5 2480M	Hz Ant Mode /	Auto FFT.		Emissio	5.70 dBn 85000 GH3 55.26 dBn
Spectrum Ref Level Att SGL Count 1Pk Max 101dBm 0 dBm -10 dBm	and Ed	Offset 3 SWT 23	7.07 dB 📦 F	5 2480M	Hz Ant Mode /	Auto FFT.		Emissio 2.479	5.70 dBn 85000 GH3 55.26 dBn
Spectrum Ref Level Att SGL Count 1Pk Max 10 ¹ dBm 0 dBm -10 dBm	and Ed 20.00 dBm 30 dB 100/100	Offset 3 SWT 23	7.07 dB 📦 F	5 2480M	Hz Ant Mode /	Auto FFT.		Emissio 2.479	5.70 dBn 85000 GH3 55.26 dBn
Spectrum Ref Level Att SGL Count 1Pk Max 10\dBm 0 dBm -10 dBm -20 cBm	and Ed 20.00 dBm 30 dB 100/100	Offset 3 SWT 23	7.07 dB 📦 F	5 2480M	Hz Ant Mode /	Auto FFT.		Emissio 2.479	5.70 dBn 85000 GH3 55.26 dBn
Spectrum Ref Level Att SGL Count 1Pk Max 10'dBm 0 dBm -10 dBm -20 dBm -30 dBm	and Ed 20.00 dBm 30 dB 100/100	Offset 3 SWT 23	7.07 dB 📦 F	5 2480M	Hz Ant Mode /	Auto FFT.		Emissio 2.479	5.70 dBn 85000 GH3 55.26 dBn
Spectrum Ref Level Att SGL Count 1Pk Max 10'dBm 0 dBm -10 dBm -20 dBm -30 dBm	and Ed 20.00 dBm 30 dB 100/100	Offset 3 SWT 23	7.07 dB 📦 F	5 2480M	Hz Ant Mode /	Auto FFT.		Emissio 2.479	5.70 dBn 85000 GH3 55.26 dBn
Spectrum Ref Level Att SGL Count 1Pk Max 10'dBm 0 dBm -10 dBm -20 cBm -30 dBm -40 dBm 50 dBm2	and Ed 20.00 dBm 30 dB 100/100	Offset 7 SWT 22	7.07 dB F 27.5 μs F	5 2480M	Mode / Mode /	Auto FFT		2.479 2.483	5.70 dBn 85000 GH: 55.26 dBn 55000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 1D\dBm 0 dBm -20 cBm -30 dBm -50 dBm	and Ed 20.00 dBm 30 dB 100/100	Offset 7 SWT 22	7.07 dB F 27.5 μs F	5 2480M	Mode / Mode /	Auto FFT		Emissio 2.479	5.70 dBn 85000 GH: 55.26 dBn 55000 GH:
Spectrum Ref Level Att SGL Count IPk Max ID\dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm	and Ed 20.00 dBm 30 dB 100/100	Offset 7 SWT 22	7.07 dB F 27.5 μs F	5 2480M	Mode / Mode /	Auto FFT		2.479 2.483	5.70 dBn 85000 GH: 55.26 dBn 55000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 1D\dBm 0 dBm -20 cBm -30 dBm -50 dBm	and Ed 20.00 dBm 30 dB 100/100	Offset 7 SWT 22	7.07 dB F 27.5 μs F	5 2480M	Mode / Mode /	Auto FFT		2.479 2.483	5.70 dBn 85000 GH: 55.26 dBn 55000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 1D'dBm 0 dBm -1D dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	D1 -14.218	Offset 7 SWT 22	7.07 dB F 27.5 μs F	5 2480M	Mode / Mode / M	Auto FFT		2.479 2.483	5,70 dBn 85000 GH3 55,26 dBn 56000 GH3
Spectrum Ref Level Att SGL Count IPk Max ID\dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm	D1 -14.218	Offset 7 SWT 22	7.07 dB F 27.5 μs F	5 2480M	Mode / Mode / M	Auto FFT.		2.479 2.483	5.70 dBn 85000 GH: 55.26 dBn 55000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 1D/dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm Start 2.476 Varker Type	and Ed 20.00 dBm 30 dB 100/100	Offset 7 SWT 22 dBm dBm	7.07 dB F 27.5 μs N	5 2480M	Hz Ant Mode / M M	۵uto FFT ۱[1] 2[1]		2.479 2.483	5.70 dBn 85000 GH: 55.26 dBn 56000 GH:
Spectrum Ref Level Att SGL Count IPk Max IPk Max 10'dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm Start 2.476 Marker Type M1	and Edg 20.00 dBm 30 dB 100/100 01 -14,218 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Offset 7 SWT 22 dBm dBm dBm	27.5 μs s 27.5 μs s 	5 2480M	Hz Ant Mode / M M M	۵uto FFT ۱[1] 2[1]		2.479 2.483	5.70 dBn 85000 GH: 55.26 dBn 56000 GH:
Spectrum Ref Level Att SGL Count 1Pk Max 1D'dBm 0 dBm -10 dBm -20 cBm -30 dBm -50 dBm -60 dBm -70 dBm Start 2.476 Marker Type Ref M1 M2	D1 -14.218	Offset 7 SWT 22 dBm dBm M3 will. 	27.5 μs 27.5	5 2480M	Hz Ant Mode / M M M M	۵uto FFT ۱[1] 2[1]		2.479 2.483	5.70 dBn 85000 GH: 55.26 dBn 56000 GH:
Spectrum Ref Level Att SGL Count IPk Max IPk Max 10'dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -60 dBm Start 2.476 Marker Type M1	and Edg 20.00 dBm 30 dB 100/100 01 -14,218 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Offset 7 SWT 22 dBm dBm 	27.5 μs s 27.5 μs s 	5 2480M	Hz Ant Mode / M M M	۵uto FFT ۱[1] 2[1]		2.479 2.483	5.70 dBn 85000 GH: 55.26 dBn 56000 GH:



Spectru		- 0 -		DH5 240			- 1- 1-	J	
	m I 20.00 dBm	Offcot 7	07 d0 = 0	DW 100 kUs	_				
Att				BW 300 kHz	Mode A	uto FFT			
	t 100/100	221.9			100000-00				
1Pk Max									
					M	1[1]		0.400	4,01 dBm 03200 GHz
10 dBm						-	-	2,402	03200 GH2
				MI	1				
0 dBm				- sof	May		_		
				6					
-10 dBm—							_		
					1				
-20 dBm-	-						-		
				X	1				
-30 dBm	-	-	- /		-	1	-		
			m		127.21	m		1.000	
-40 dBm—		-							1
		/							
-50 dBm	1 in	mont					work	10	1
nnn	m		-			· · · · · · · · · ·	- <u> </u>	1 m	mm
-60 dBm—					-		-		
							_		
-70 dBm—									
CF 2.402	GHz			1001	pts			Spa	n 8.0 MHz
		ge NVN	T 2-DH	15 2402M	IHz Ant	1 1 No-H	opping	Emissio	
Spectru	m I 20.00 dBm	Offset 7	7.07 dB 📦 I	5 2402M			opping	Emissio	
Spectru Ref Leve Att SGL Coun	m I 20.00 dBm	Offset 7	7.07 dB 📦 I	RBW 100 kHz			opping	Emissio	
Spectru Ref Leve Att SGL Coun	m I 20.00 dBm 30 dB	Offset 7	7.07 dB 📦 I	RBW 100 kHz	Mode /	Auto FFT	opping	Emissio	
Spectru Ref Leve Att SGL Coun 1Pk Max	m I 20.00 dBm 30 dB	Offset 7	7.07 dB 📦 I	RBW 100 kHz	Mode /		opping		5.95 dBm
Spectru Ref Leve Att SGL Coun 1Pk Max	m I 20.00 dBm 30 dB	Offset 7	7.07 dB 📦 I	RBW 100 kHz	Mode /	Auto FFT	opping	2.401	5.95 dBm 95000, GHz 54.95 ¶Bm
Spectru Ref Leve Att SGL Coun 1Pk Max	m I 20.00 dBm 30 dB	Offset 7	7.07 dB 📦 I	RBW 100 kHz	Mode /	Auto FFT.	opping	2.401	5.95 dBm 95000, GHz 54.95 ¶Bm
Spectru Ref Leve Att SGL Coun 1Pk Max 10 dBm	m I 20.00 dBm 30 dB	Offset 7	7.07 dB 📦 I	RBW 100 kHz	Mode /	Auto FFT.	opping	2.401	5.95 dBm 95000, GHz 54.95 ¶Bm
Spectru Ref Leve Att SGL Coun 1Pk Max 10 dBm 0 dBm -10 dBm	m I 20.00 dBm 30 dB	Offset 7 SWT 22	7.07 dB 📦 I	RBW 100 kHz	Mode /	Auto FFT.	opping	2.401	5.95 dBm 95000, GHz 54.95 ¶Bm
Spectru Ref Leve Att SGL Coun 1Pk Max 10 dBm 0 dBm -10 dBm	m 30 dBm 30 dB t 100/100	Offset 7 SWT 22	7.07 dB 📦 I	RBW 100 kHz	Mode /	Auto FFT.	opping	2.401	5.95 dBm 95000, GHz 54.95 ¶Bm
Spectru Ref Leve Att SGL Coun 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm-	m 30 dBm 30 dB t 100/100	Offset 7 SWT 22	7.07 dB 📦 I	RBW 100 kHz	Mode /	Auto FFT.	opping	2.401	5.95 dBm 95000, GHz 54.95 ¶Bm
Spectru Ref Leve Att SGL Coun IPk Max IPk Max O dBm— -10 dBm— -10 dBm— -20 dBm—	m 30 dBm 30 dB t 100/100	Offset 7 SWT 22	7.07 dB 📦 I	RBW 100 kHz	Mode /	Auto FFT.	opping	2.401	5.95 dBm 95000, GHz 54.95 ¶Bm
Spectru Ref Leve Att SGL Coun IPk Max ID dBm	m 30 dB 30 dB t 100/100	Offset 7 SWT 22	7.07 dB • Ι 27.5 μs • Υ	RBW 100 kHz YBW 300 kHz	Mode / M	Auto FFT.		2.401 2.400	5.95 dBm 9500µ,GHz 54.95 ¥Bm 06800/GHz
Spectru Ref Leve Att SGL Coun IPk Max ID dBm	m 30 dB 30 dB t 100/100	Offset 7 SWT 22	7.07 dB • Ι 27.5 μs • Υ	RBW 100 kHz YBW 300 kHz	Mode / M	Auto FFT.		2.401 2.400	5.95 dBm 9500µ,GHz 54.95 ¥Bm 06800/GHz
Spectru Ref Leve Att SGL Coun IPk Max ID dBm	m 30 dB 30 dB t 100/100	Offset 7 SWT 22	7.07 dB • Ι 27.5 μs • Υ	RBW 100 kHz YBW 300 kHz	Mode / M	Auto FFT.		2.401 2.400	5.95 dBm 9500µ,GHz 54.95 ¥Bm 06800/GHz
Spectru Ref Leve Att SGL Coun 1Pk Max 1D dBm -10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm	m 30 dB 30 dB t 100/100	Offset 7 SWT 22	7.07 dB • Ι 27.5 μs • Υ	RBW 100 kHz	Mode / M	Auto FFT.		2.401 2.400	5.95 dBm 9500µ,GHz 54.95 ¥Bm 06800/GHz
Spectru Ref Leve Att SGL Coun 1Pk Max 1D dBm -10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm	m 30 dB 30 dB t 100/100	Offset 7 SWT 22	7.07 dB • Ι 27.5 μs • Υ	RBW 100 kHz YBW 300 kHz	Mode / M	Auto FFT.		2.401 2.400	5.95 dBm 9500µ,GHz 54.95 ¥Bm 06800/GHz
Spectru Ref Leve Att SGL Coun 1Pk Max 10 dBm— -10 dBm— -20 dBm— -30 dBm— -40 dBm— -50 dBm— -70 dBm—	m 30 dB 30 dB 100/100	Offset 7 SWT 22	7.07 dB • Ι 27.5 μs • Υ	RBW 100 KHz VBW 300 kHz	Mode /	Auto FFT.		2.401 - 2.400 	5.95 dBm 9500h GHz 54.95 TBm 06800 GHz
Spectru Ref Leve Att SGL Coun 1Pk Max 10 dBm— -10 dBm— -20 dBm— -30 dBm— -30 dBm— -50 dBm— -70 dBm— -70 dBm—	m 30 dB 30 dB 100/100	Offset 7 SWT 22	7.07 dB • Ι 27.5 μs • Υ	RBW 100 kHz YBW 300 kHz	Mode /	Auto FFT.		2.401 - 2.400 	5.95 dBm 9500µ,GHz 54.95 ¥Bm 06800/GHz
Spectru Ref Leve Att SGL Coun 1Pk Max 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm Start 2.30	m 30 dB 30 dB 1 20.00 dBm 30 dB 1 100/100	Offset 7 SWT 22	7.07 dB 27.5 μs 10 10 10 10 10 10 10 10 10 10	RBW 100 kHz YBW 300 kHz	Mode / M M	Auto FFT 1[1] 2[1]	mphilmm	2.401 2.400 	5.95 dBm 95000 GHz
Spectru Ref Leve Att SGL Coun IPk Max IPk Max IO dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm Start 2.30 MI	m 30 dB 30 dB 1 20.00 dBm 30 dB 100/100 10	Offset 7 SWT 22 dBm burdluge, www.	.07 dB 1 27.5 μs 1 	RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz VE VE VE VE VE VE VE VE VE VE	Mode / M M M M M	Auto FFT 1[1] 2[1]	mphilmm	2.401 - 2.400 	5.95 dBm 95000 GHz
Spectru Ref Leve Att SGL Coun 1Pk Max 1D dBm— 0 dBm— -10 dBm— -20 dBm— -30 dBm— -30 dBm— -50 dBm— -60 dBm— -70 dBm— Start 2.3/ M1 M2	m 30 dB 30 dB 1 20.00 dBm 30 dB 100/100 01 -15,987 01 -15,9	Offset 7 SWT 22 dBm dBm <u>مسرالیم</u> <u>x-value</u> 2.4011	M4 μνημ 95 GHz .4 GHz	RBW 100 kHz /BW 300 kHz //BW	Mode / 	Auto FFT 1[1] 2[1]	mphilmm	2.401 2.400 	5.95 dBm 95000, GHz 54.95 TBm 06000 GHz
Spectru Ref Leve Att SGL Coun 1Pk Max 1D dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm Start 2.30 Type R	m 30 dB 30 dB 1 20.00 dBm 30 dB 100/100 10	Offset 7 SWT 22 dBm dBm <u>x-value</u> 2.4011 2	.07 dB 1 27.5 μs 1 	RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz VE VE VE VE VE VE VE VE VE VE	Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT 1[1] 2[1]	mphilmm	2.401 2.400 	5.95 dBm 95000, GHz 54.95 TBm 06000 GHz
Spectru Ref Leve Att SGL Coun IPk Max IPk Max ID dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm Start 2.30 Marker Type M1 M2 M3	m 30 dB 30 dB 1 20.00 dBm 30 dB 1 100/100 0 1 0 1-15,987 0 1 0 1 0 5 GHz 0 6 GHz 0 1 1 1 1 1	Offset 7 SWT 22 dBm dBm <u>x-value</u> 2.4011 2	7.07 dB 27.5 μs 1 1 1 1 1 1 1 1 1 1 1 1 1	RBW 100 kHz /BW 300 kHz //BW	Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT 1[1] 2[1]	mphilmm	2.401 2.400 	5.95 dBm 95000 GHz



Spectrun Ref Level Att	20.00 dBm 30 dB			BW 100 kHz BW 300 kHz	Mode A	uto FFT			(e
SGL Count	100/100				_				
1Pk Max	-		-		M	1[1]			4.55 dBr
			1 2 1			erei	16 - h	2.480	15980 GH
LO dBm					VII				
) dBm				ame	n-				
usin-				N	1				
10 dBm									
					1				
20 dBm					-		-	-	
30 dBm							-	1	11-11-1
SU GBIN			my			m			
40 dBm				-		1-1-1-1			
	0	ha I							
50 dBm	~~ /	mar					tra	h	
60 dBm-	nv.							w	m
OD GBIII			1				-		
70 dBm-						-			
						11			1000
	10.000		1 million - 1 mill						
Spectrun	and Ed		0.00	1001 p	IHz Ant] t1 No-H	opping		on
B Spectrun Ref Level Att	and Ed	Offset 7	7.07 dB 🖷		IHz Ant		opping		on
B Spectrun Ref Level	and Ed	Offset 7	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant		opping		on
B Spectrun Ref Level Att SGL Count	and Ed	Offset 7	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant		opping	Emissic	00 (₩ 3.76 dBn
B Spectrun Ref Level Att SGL Count	and Ed	Offset 7	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant Mode /	Auto FFT.	opping	Emissic	0 n
B Spectrun Ref Level Att SGL Count 1Pk Max	and Ed	Offset 7	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant Mode /	Auto FFT	opping I	Emissic	3.76 dBn 95000 GH 54.92 dBn
B Spectrun Ref Level Att SGL Count 1Pk Max 10,dgm	and Ed	Offset 7	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant Mode /	Auto FFT.	opping	Emissic	3.76 dBn 95000 GH 54.92 dBn
B Spectrun Ref Level Att SGL Count 1Pk Max 10,dBm- 10 dBm- 10 dBm-	and Ed	Offset 3 SWT 22	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant Mode /	Auto FFT.	opping	Emissic	3.76 dBn 95000 GH 54.92 dBn 56000 GH
B Spectrun Ref Level Att SGL Count 1Pk Max 10,dgm	and Ed	Offset 3 SWT 22	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant Mode /	Auto FFT.	opping	Emissic	3.76 dBn 95000 GH 54.92 dBn
B Spectrun Ref Level Att SGL Count 1Pk Max 10,dBm- 10 dBm- 10 dBm-	and Ed	Offset 3 SWT 22	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant Mode /	Auto FFT.	opping	Emissic	3.76 dBn 95000 GH 54.92 dBn
B Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 10 dBm 20 dBm	and Ed	Offset 3 SWT 22	7.07 dB 🖷	15 2480M RBW 100 kHz	IHz Ant Mode /	Auto FFT.	opping	Emissic	3.76 dBn 95000 GH 54.92 dBn
B Spectrun Ref Level Att SGL Count (1Pk Max 10,dBm- 10 dBm- 10 dBm- 30 dBm- 30 dBm- 30 dBm-	and Ed	Offset 7 SWT 22	7.07 dB 27.5 µs	15 2480M	IHz Ant Mode /	Auto FFT.		2.479 2.483	3.76 dBn 95000 GH 54.92 dBn
B Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 40 dBm 40 dBm	and Ed	Offset 7 SWT 22	7.07 dB 🖷	15 2480M	IHz Ant Mode /	Auto FFT.	opping l	2.479 2.483	3.76 dBn 95000 GH 54.92 dBn 56000 GH
B Spectrun Ref Level Att SGL Count (1Pk Max 10,dBm- 10 dBm- 10 dBm- 30 dBm- 30 dBm- 30 dBm-	and Ed	Offset 7 SWT 22	7.07 dB 27.5 µs	15 2480M	IHz Ant Mode / M	Auto FFT.		2.479 2.483	3.76 dBn 95000 GH 54.92 dBn
B Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 40 dBm 40 dBm	and Ed	Offset 7 SWT 22	7.07 dB 27.5 µs	15 2480M	IHz Ant Mode / M	Auto FFT.		2.479 2.483	3.76 dBn 95000 GH 54.92 dBn 56000 GH
B Spectrum Ref Level Att SGL Count 11Pk Max 0, dBm 0, dBm 10, dBm 20, dBm 20, dBm 30, dBm 40,	01 -15,449	Offset 7 SWT 22	7.07 dB 27.5 µs	15 2480M	IHz Ant Mode / M	Auto FFT.		2.479 2.483	3.76 dBn 95000 GH 54.92 dBn 55000 GH
B Spectrum Ref Level Att SGL Count IPK Max D dBm D dBm 10 dBm 20 dBm 20 dBm 40 dBm 50 dBm 50 dBm 70 dBm 70 dBm 70 dBm	and Ed	Offset 7 SWT 22	7.07 dB 27.5 μs	15 2480M	IHz Ant Mode / M M	Auto FFT.		2.479 2.483	2.576 GHz
B Spectrum Ref Level Att SGL Count 11Pk Max 10 dBm 10 dBm 20 dBm 20 dBm 30 dBm 30 dBm 40 dBm 50 dBm 50 dBm 70 dBm 70 dBm 70 dBm 70 dBm 70 dBm	and Ed	Offset 7 SWT 22 dBm dBm wdt spollmp x-value	7.07 dB 27.5 μs	15 2480M	IHz Ant Mode / M M	Auto FFT.		2.479 2.483	2.576 GHz
B Spectrum Ref Level Att SGL Count IPK Max D dBm D dBm 10 dBm 20 dBm 20 dBm 40 dBm 50 dBm 50 dBm 70 dBm 70 dBm 70 dBm	Cand Ed	Offset T SWT 22 dBm dBm M4 could poul of the could be a could be	7.07 dB 27.5 μs	15 2480M	IHz Ant Mode / M M M	Auto FFT.		2.479 2.483	2.576 GHz
B Spectrum Ref Level Att SGL Count 10 rdBm	and Ed	Offset 7 SWT 22 dBm dBm M4 dBm M4 dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	7.07 dB 27.5 μs	15 2480M	IHz Ant Mode / M M M M M M M M M M M M M M M M M M M	Auto FFT.		2.479 2.483	2.576 GHz



Att SGL Cour	l 20.00 dBm 30 dB nt 100/100			BW 100 kHz BW 300 kHz	Mode A	uto FFT			(T
1Pk Max	1	1		(M	1[1]			5.30 dBn
			1 2 1	1	14	1111		2.40	202400 GH
10 dBm				MI		1			
n din ee				my	ma				
0 dBm				1	-1-				
-10 dBm—			·	1 -	1			J	
					1		-		
-20 dBm-	-	-						-	
6.2.0			~		1				
-30 dBm-						A C		1	
-40 dBm-			m			mu!			
a signi		1					N		
-50 dBm-	-	10 - 1					har	6	
mond	m	mm	-				V S	Vn	may
-60 dBm—	1			1.1.1.1					
-70 dBm—			-						
-70 aBm—									
100									
		ge NVN	IT 3-DH	1001 pt 5 2402MF] :1 No-F	lopping		on 8.0 MHz
Spectru Ref Leve	Band Ed	Offset 7	7.07 dB 🐞 F	5 2402MF	Hz Ant		lopping		on
Spectru Ref Leve Att SGL Cour	Band Ed	Offset 7	7.07 dB 🐞 F	5 2402MF	Hz Ant		lopping		on
Spectru Ref Leve Att SGL Cour	Band Ed m II 20.00 dBm 30 dB	Offset 7	7.07 dB 🐞 F	5 2402MF	Hz Ant	Auto FFT	lopping		on T
Spectru Ref Leve Att SGL Cour 1Pk Max	Band Ed m II 20.00 dBm 30 dB	Offset 7	7.07 dB 🐞 F	5 2402MF	Hz Ant		lopping	Emissio	8
Spectru Ref Leve Att SGL Cour IPk Max 10 dBm—	Band Ed m II 20.00 dBm 30 dB	Offset 7	7.07 dB 🐞 F	5 2402MF	Hz Ant Mode A	Auto FFT	lopping	Emissic	5.66 dBn 215000,GH -52.21 ≇Bn
Spectru Ref Leve Att SGL Cour IPk Max 10 dBm—	Band Ed m II 20.00 dBm 30 dB	Offset 7	7.07 dB 🐞 F	5 2402MF	Hz Ant Mode A	Auto FFT.	lopping	Emissic	5.66 dBn 215000,GH -52.21 ≇Bn
Spectru Ref Leve Att SGL Cour) IPk Max 10 dBm	Band Ed m 11 20.00 dBm 30 dB 11 100/100	Offset 7 SWT 22	7.07 dB 🐞 F	5 2402MF	Hz Ant Mode A	Auto FFT.	lopping	Emissic	5.66 dBn 215000∧CH:
Spectru Ref Leve Att SGL Cour JIPk Max 10 dBm- D dBm- -10 dBm-	Band Ed m II 20.00 dBm 30 dB	Offset 7 SWT 22	7.07 dB 🐞 F	5 2402MF	Hz Ant Mode A	Auto FFT.	lopping	Emissic	5.66 dBn 215000,GH -52.21 ≇Bn
Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm-	Band Ed m 11 20.00 dBm 30 dB 11 100/100	Offset 7 SWT 22	7.07 dB 🐞 F	5 2402MF	Hz Ant Mode A	Auto FFT.	lopping	Emissic	5.66 dBn 215000,GH -52.21 ≇Bn
Spectru Ref Leve Att SGL Cour) IPk Max 10 dBm 0 dBm -10 dBm	Band Ed m 11 20.00 dBm 30 dB 11 100/100	Offset 7 SWT 22	7.07 dB 🐞 F	5 2402MF	Hz Ant Mode A	Auto FFT.	lopping	Emissic	5.66 dBn 215000,GH -52.21 ≇Bn
Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	Band Ed m 11 20.00 dBm 30 dB 11 100/100	Offset 7 SWT 22	7.07 dB F 27.5 μs V	5 2402MF	Hz Ant Mode A	Auto FFT.	lopping	Emissic	5.66 dBn 215000,GH: -52.21 #Bn 000000 GH:
Spectru Ref Leve Att SGL Cour IPk Max ID dBm	Band Ed	Offset 7 SWT 22	7.07 dB F 27.5 μs V	5 2402MH	Hz Ant Mode / M	Auto FFT		2.400	5.66 dBn 215000,GH -52.21 Bn 006000 GH
Spectru Ref Leve Att SGL Cour) IPk Max) D dBm	Band Ed m 11 20.00 dBm 30 dB 11 100/100	Offset 7 SWT 22	7.07 dB F 27.5 μs V	5 2402MH	Hz Ant Mode / M	Auto FFT		2.400	5.66 dBn 215000,GH -52.21 Bn 006000 GH
Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm- -10 dBm- -20 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- 50 dBm-	Band Ed	Offset 7 SWT 22	7.07 dB F 27.5 μs V	5 2402MH	Hz Ant Mode / M	Auto FFT		2.400	5.66 dBn 215000,GH -52.21 Bn 006000 GH
Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm- -10 dBm- -20 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- 50 dBm-	Band Ed	Offset 7 SWT 22	7.07 dB F 27.5 μs V	5 2402MH	Hz Ant Mode / M	Auto FFT		2.400	5.66 dBn 215000,GH -52.21 Bn 006000 GH
Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm— -10 dBm— -10 dBm— -20 dBm— -30 dBm— -30 dBm— -50 dBm— -50 dBm—	D1 -14,698	Offset 7 SWT 22	7.07 dB F 27.5 μs V	5 2402MH	Hz Ant Mode / M M	Auto FFT		2.400 2.400	5.66 dBn 215000,GH -52.21 Bn 006000 GH
Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm	Band Ed	dBm	7.07 dB F 27.5 μs N Μ4	5 2402MH	Hz Ant Mode / MI MI	۵uto FFT ۱[1] 2[1]		2.40 2.40 2.40 2.40 5.40	5.66 dBn 215000,GH -52.21 JBn 06000 GH2
Spectrue Ref Leve Att SGL Cour 10 dBm 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70 dBm Start 2.3 darker Type R	Band Ed m 30 dB 1 20.00 dBm 30 dB 1 100/100 01 -14,698	dBm AnolMu, sum X-value	7.07 dB F 27.5 μs S M4	5 2402MH	Hz Ant Mode / M M	۵uto FFT ۱[1] 2[1]		2.400 2.400	5.66 dBn 215000,GH -52.21 JBn 06000 GH2
Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -30 dBm- -30 dBm- -70 dB	Band Ed m	Offset 7 SWT 22 dBm dBm www.lhuyse.utur X-value 2.402 2	7.07 dB F F 27.5 μs V M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	5 2402MH 28W 100 kHz 7BW 300 kHz 100	Hz Ant Mode / MI MI	۵uto FFT ۱[1] 2[1]		2.40 2.40 2.40 2.40 5.40	5.66 dBn 215000,GH -52.21 JBn 06000 GH2
Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm- -20 dBm- -20 dBm- -30 dBm- -30 dBm- -70 dBm- 50 dBm- -70 dBm- -70 dBm- Start 2.3 Tarker M1	Band Ed m 1 20.00 dBm 30 dB 30 dB 1 100/100 D1 -14,698 01 -14,798 01 -14,698 01 -	Offset 7 SWT 22 dBm dBm X-value 2.402 2 2.	7.07 dB F F 27.5 μs S	5 2402MH	Hz Ant Mode / MI MI	۵uto FFT ۱[1] 2[1]		2.40 2.40 2.40 2.40 5.40	5.66 dBn 215000,GH -52.21 JBn 06000 GH2



Spectrum	and Edg ר					Ŭ	
Ref Level 20.0	O dBm Offs	et 7.07 dB 🝺	RBW 100 kHz				lv
		18.9 µs 🖷	VBW 300 kHz	Mode Auto FFT			
SGL Count 100/ 1Pk Max	100						_
IF & Ingo	1			M1[1]			4.91 dBr
		1.1.2			2.6	2.480	00000 GH
10 dBm			MI			1	
			- march				
) dBm				J.			
10 dBm				7			
10 dbm			1		÷ 7,		
20 dBm							
		_					
30 dBm		-		-	1		
		how	\sim	1-2.4.A	N.	1.000	11 227
40 dBm		1	1 1				
EQ dam	har	\sim					
50 dBm-	N				mon	200	Sugar and
60 dBm	<u></u>	_				NN	m
ob ubin					1.1	1.7.00.11	
70 dBm					-	· · · · ·	
(C. 1997)						1	1.000
and the second second second						· · · · · · · · · · · · · · · · · · ·	
Band	ן Edge N	IVNT 3-D	1001 pt H5 2480MF		Hopping		on
Band Spectrum Ref Level 20.0	0 dBm Offs	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No	1		on
Band Spectrum Ref Level 20.0 Att	D dBm Offs 30 dB SW1	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No	1		n 8.0 MHz DN
Banc Spectrum Ref Level 20.0 Att SGL Count 100/	D dBm Offs 30 dB SW1	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No	1		on
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 1Pk Max	D dBm Offs 30 dB SW1	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No	1	Emissio	9 N
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 1Pk Max	D dBm Offs 30 dB SW1	et 7.07 dB 🖷	H5 2480MF	HZ ANTI NO-	1	Emissio	n T
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ DIPk Max	D dBm Offs 30 dB SW1	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No- Mode Auto FFT	1	Emissio	0 N
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 11Pk Max	D dBm Offs 30 dB SW1	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No- Mode Auto FFT	1	Emissio	4.82 dBr 95000 GH 55.75 dBr
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 11Pk Max 10/dBm 0 dBm 10 dBm	D dBm Offs 30 dB SW1	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No- Mode Auto FFT	1	Emissio	4.82 dBr 95000 GH 55.75 dBr
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ DIPk Max	0 dBm Offs 30 dB SW1 100	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No- Mode Auto FFT	1	Emissio	4.82 dBr 95000 GH 55.75 dBr
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 11Pk Max 10/dBm 10/dBm 10/dBm 10/dBm 20/dBm 01 -	0 dBm Offs 30 dB SW1 100	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No- Mode Auto FFT	1	Emissio	4.82 dBr 95000 GH 55.75 dBr
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 11Pk Max 10/d8m 10/d8m 10/d8m 10/d8m 10/d8m 10/d8m 10/d8m	0 dBm Offs 30 dB SW1 100	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No- Mode Auto FFT	1	Emissio	4.82 dBr 95000 GH 55.75 dBr
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 1Pk Max 10rdBm 0 dBm 10 cBm 20 dBm 30 dBm 30 dBm	0 dBm Offs 30 dB SW1 100	et 7.07 dB 🖷	H5 2480MF	Hz Ant1 No- Mode Auto FFT	1	Emissio	4.82 dBr 95000 GH 55.75 dBr
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 10 rBm 0 rBm 10 rBm 20 rBm 30 rBm	0 dBm Offs 30 dB SW1 100	et 7.07 dB	H5 2480MH RBW 100 kHz YBW 300 kHz	Hz Ant1 No-		2.479 2.483	4.82 dBr 95000 GH 55.75 dBr 55000 GH
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ IPK Max 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	0 dBm Offs 30 dB SW1 100	et 7.07 dB	H5 2480MF	Hz Ant1 No-		2.479 2.483	4.82 dBr 95000 GH 55.75 dBr 55000 GH
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 10Pk Max 10Pk Max 10 dBm 60 dBm	0 dBm Offs 30 dB SW1 100	et 7.07 dB	H5 2480MH RBW 100 kHz YBW 300 kHz	Hz Ant1 No-		2.479 2.483	4.82 dBr 95000 GH 55.75 dBr 55000 GH
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 10Pk Max 10Pk Max 10 dBm 60 dBm	0 dBm Offs 30 dB SW1 100	et 7.07 dB	H5 2480MH RBW 100 kHz YBW 300 kHz	Hz Ant1 No-		2.479 2.483	4.82 dBr 95000 GH 55.75 dBr 55000 GH
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 10 rBm 0 rBm 10 rBm	0 dBm Offs 30 dB SW1 100 15,087 dBm	et 7.07 dB	H5 2480MH RBW 100 kHz YBW 300 kHz	Hz Ant1 No-		2.479 2.483	4.82 dBr 95000 GH 55.75 dBr 56000 GH
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 1Pk Max 10 dBm	2 dBm Offs 30 dB SW1 100 15,087 dBm-	et 7.07 dB	H5 2480MH	Hz Ant1 No-	Martun Mastropo	Emissio	4.82 dBr 95000 GH 55.75 dBr 55.000 GH
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 1PK Max 10/dBm 20 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm 50 dBm 40 dBm 50 dBm 70 dBm 51 darker Type	2 0 dBm Offs 30 dB SW1 100 15,087 dBm rw,/wdihat% z xc X-	et 7.07 dB	H5 2480MH RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz 1001 pt Y-value	Hz Ant1 No-	Martun Mastropo	2.479 2.483	4.82 dBr 95000 GH 55.75 dBr 55.000 GH
Banc Spectrum Ref Level 20.0 Att SGL Count 100/ 1PK Max 10rdBm 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm 60 dBm 70 dBm 70 dBm Start 2.476 GH	2 0 dBm Offs 30 dB SW1 100 15,087 dBm rw,/wdihat% z xc X-	et 7.07 dB 227.5 µs	H5 2480MH RBW 100 kHz VBW 300 kHz 	Hz Ant1 No-	Martun Mastropo	Emissio	4.82 dBr 95000 GH 55.75 dBr 55.000 GH
Spectrum Ref Level 20.0 Att SGL Count 100/ 1Pk Max 10rdBm 10rdBm 10 dBm 10 dBm 10 dBm 10 dBm 40 dBm 50 dBm 40 dBm 50 dBm <tr< td=""><td>2 dBm Offs 30 dB SW1 100 15,087 dBm 15,087 dBm 15,087 dBm 15,087 dBm</td><td>et 7.07 dB</td><td>H5 2480MH RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz 100 kHz 4.82 dBm</td><td>Hz Ant1 No-</td><td>Martun Mastropo</td><td>Emissio</td><td>4.82 dBr 95000 GH 55.75 dBr 55.000 GH</td></tr<>	2 dBm Offs 30 dB SW1 100 15,087 dBm 15,087 dBm 15,087 dBm 15,087 dBm	et 7.07 dB	H5 2480MH RBW 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz VBW 300 kHz 100 kHz VBW 300 kHz VBW 300 kHz 100 kHz 100 kHz 4.82 dBm	Hz Ant1 No-	Martun Mastropo	Emissio	4.82 dBr 95000 GH 55.75 dBr 55.000 GH

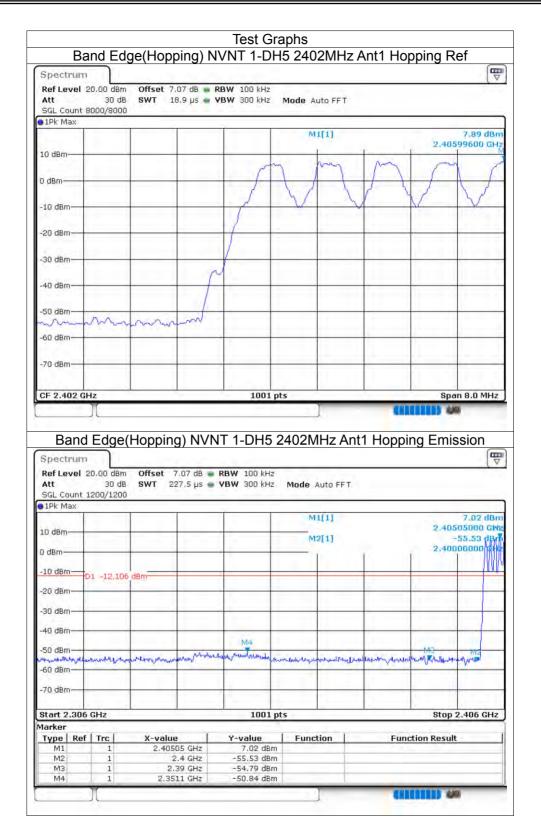




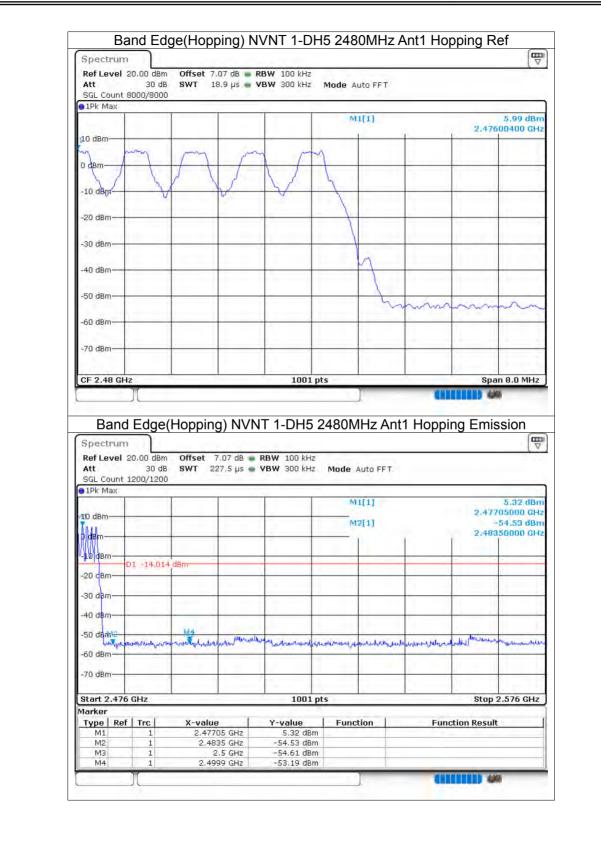
8.8 BAND EDGE(HOPPING)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-58.73	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-59.17	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-56.49	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-57.91	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-57.58	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-57.71	-20	Pass









B

NTEK北测

ilac-MR



F	Sand Ed	ae/Honr	ning) M	VNT 2-D	H5 240	21117	ht1 Ho	nning P	of
Spectru		ge(nopp	Jing) N		115 240			pping R	
Ref Leve	I 20.00 dBm			RBW 100 kHz	10.75				-
	30 dB it 8000/8000		3.9 µs 🖷 V	/BW 300 kHz	Mode A	uto FFT			
●1Pk Max		1		τ i	M	1[1]		-	6,31
10 dBm							I MI	2.403	99800
	1 = -				A	m	M	- Ann	
0 dBm				m	Man		and the second	Mar P	mor
-10 dBm—		-	-	1	-				
-20 dBm-				1	_				
LU GUIT!									
-30 dBm—			Contraction of the	1					
-40 dBm—		-	min	1	-				
ee de									
-50 dBm-	mm	har							
-60 dBm—	-			-	-				-
-70 dBm—									
	-			-				-	-
1.1.1			-						1
	d Edge	(Hopping	g) NVN	1001 IT 2-DH5] 1Hz Ant	1 Hoppi		n 8.0 M
Ban Spectru Ref Leve Att	nd Edge(m I 20.00 dBm 30 dB	Offset 7 SWT 22	7.07 dB 🖷		2402N				8
Ban Spectru Ref Leve Att	nd Edge(m	Offset 7 SWT 22	7.07 dB 🖷	T 2-DH5 RBW 100 kHz	2402N				8
Ban Spectru Ref Leve Att SGL Cour IPk Max	nd Edge(m I 20.00 dBm 30 dB	Offset 7 SWT 22	7.07 dB 🖷	T 2-DH5 RBW 100 kHz	2402N Mode			ng Emis	ssion
Ban Spectru Ref Leve Att SGL Cour IPk Max	nd Edge(m I 20.00 dBm 30 dB	Offset 7 SWT 22	7.07 dB 🖷	T 2-DH5 RBW 100 kHz	2402M	Auto FFT		ng Emis	5.92 (95000, 55.37 (
Ban Spectru Ref Leve Att SGL Courn IPk Max 10 dBm- 0 dBm-	nd Edge(m I 20.00 dBm 30 dB	Offset 7 SWT 22	7.07 dB 🖷	T 2-DH5 RBW 100 kHz	2402M Mode	Auto FFT.		ng Emis	5.92 (95000 55.37 (000000
Ban Spectru Ref Leve Att SGL Coun 10 dBm- 0 dBm- -10 dBm-	nd Edge(m I 20.00 dBm 30 dB	Offset 7 SWT 22	7.07 dB 🖷	T 2-DH5 RBW 100 kHz	2402M Mode	Auto FFT. 1[1] 2[1]		ng Emis	5.92 (95000 55.37 (000000
Ban Spectru Ref Leve Att SGL Cour 1Pk Max 10 dBm- -10 dBm- -20 dBm-	I 20.00 dBm 30 dB 11 200/1200	Offset 7 SWT 22	7.07 dB 🖷	T 2-DH5 RBW 100 kHz	2402M Mode	Auto FFT. 1[1] 2[1]		ng Emis	5.92 (95000 55.37 (000000
Ban Spectru Ref Leve Att SGL Coun 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm-	I 20.00 dBm 30 dB 11 200/1200	Offset 7 SWT 22	7.07 dB 🖷	T 2-DH5 RBW 100 kHz	2402M Mode	Auto FFT. 1[1] 2[1]		ng Emis	5.92 (95000 55.37 (000000
Ban Spectru Ref Leve Att SGL Coun • 1Pk Max 10 dBm- - 0 dBm- -20 dBm- -20 dBm- -30 dBm- -40 dBm-	I 20.00 dBm 30 dB 11 200/1200	Offset 7 SWT 22	7.07 dB 🖷	T 2-DH5 RBW 100 kHz	2402M Mode	Auto FFT. 1[1] 2[1]		2.402	5.92 (95000 55.37 (000000
Ban Spectru Ref Leve Att SGL Coun 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	I 20.00 dBm 30 dB 11 20.00 dBm 30 dB 11 1200/1200	Offset 7 SWT 22	7.07 dB ?7.5 µs	T 2-DH5 RBW 100 kHz	2402M Mode	Auto FFT. 1[1] 2[1]		ng Emis	5.92 (95000 55.37 (000000
Ban Spectru Ref Leve Att SGL Cour 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -30 dBm-	I 20.00 dBm 30 dB 11 20.00 dBm 30 dB 11 1200/1200	Offset 7 SWT 22	7.07 dB ?7.5 µs	T 2-DH5	2402M Mode	Auto FFT.		2.402 2.400	5.92 (95000) 55.37 (00000)
Ban Spectru Ref Leve Att SGL Coun 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	I 20.00 dBm 30 dB 11 20.00 dBm 30 dB 11 1200/1200	Offset 7 SWT 22	7.07 dB ?7.5 µs	T 2-DH5	2402M Mode	Auto FFT.		2.402 2.400	5.92 (95000) 55.37 (00000)
Ban Spectru Ref Leve Att SGL Cour •1Pk Max 10 dBm— 0 dBm— -10 dBm— -20 dBm— -30 dBm— -30 dBm— -50 dBm— -70 dBm— -70 dBm—	D1 -13,686	Offset 7 SWT 22	7.07 dB ?7.5 µs	T 2-DH5	2402N	Auto FFT.		2.402 2.400	5.92 (95000) 55.37 (00000)
Ban Spectru Ref Leve Att SGL Cour •1Pk Max 10 dBm— 0 dBm— -10 dBm— -20 dBm— -30 dBm— -30 dBm— -50 dBm— -70 dBm— -70 dBm—	nd Edge(m	Offset 7 SWT 22	.07 dB 	Т 2-DH5 RBW 100 kHz уви 300 kHz	2402N	Auto FFT 1[1] 2[1]	whendertweeter	2.402 2.400	5.92 (95000) 55.37 (00000) 2.406 (
Ban Spectru Ref Leve Att SGL Cour IPk Max 10 dBm- 0 dBm- -10 dBm- -20 dBm- -20 dBm- -30 dBm- -30 dBm- -70 dBm- -70 dBm- Start 2.30 Marker	nd Edge(m	Offset 7 SWT 22	.07 dB 	T 2-DH5	2402N	Auto FFT 1[1] 2[1]	whendertweeter	ng Emis	5.92 (95000) 55.37 (00000) 2.406 (
Ban Spectru Ref Leve Att SGL Coun 1PK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.3I Marker Type	I 20.00 dBm 30 dB 30 dB 1 200/1200	Offset 7 SWT 22 dBm dBm x-value 2.4025 2.3	7.07 dB 27.5 µs	T 2-DH5	2402N	Auto FFT 1[1] 2[1]	whendertweeter	ng Emis	5.92 (95000) 55.37 (00000) 2.406 (



								port No.	
Ba	and Edg	ge(Hopp	oing) N	IVNT 2-D	H5 248	0MHz A	Ant1 Ho	pping R	ef
Spectrum									[
Ref Level : Att	20.00 dBm 30 dB			RBW 100 kHz VBW 300 kHz	Mode A	uto FET			
SGL Count I		1.111			nigade n				
●1Pk Max				1	M	1[1]		1000	5,10 de
10 dBm		Ma				-	-	2.477	99400 G
	1	nm	i	n 1	M				
0-38h	mon	par V - 50	with	Mar	N				
-10 dBm								-	
-20 dBm						_			
-20 UBIII-									
-30 dBm						0 m	-	-	
-40 dBm						mond			
						-	1		
-50 dBm							how	min	m
-60 dBm					_				
and successful									
-70 dBm									
CF 2.48 GH)()	Hopping	g) NVN	1001 17 2-DH5] IHz Ant	1 Hoppi		8
CF 2.48 GH)(I Edge(Hopping	g) NVN) IHz Ant	1 Hoppi		n 8.0 MH
CF 2.48 GH	I Edge(20.00 dBm	Offset 7	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N		1 Hoppi		ssion
CF 2.48 GH	Edge(20.00 dBm 30 dB	Offset 7	7.07 dB 🖷	IT 2-DH5	2480N		1 Hoppi		ssion
CF 2.48 GH	Edge(20.00 dBm 30 dB	Offset 7	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N 2 2 Mode /		1 Hoppi	ng Emis	4.16 dB
CF 2.48 GH	Edge(20.00 dBm 30 dB	Offset 7	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N 2 Mode /	Auto FFT	1 Hoppi	ng Emis	4.16 de 15000 G
CF 2.48 GH Band Spectrum Ref Level 3 Att SGL Count 3 • 1Pk Max	Edge(20.00 dBm 30 dB	Offset 7	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N 2 Mode / Mode /	Auto FFT	1 Hoppi	ng Emis	4.16 dB
CF 2.48 GH Band Spectrum Ref Level : Att SGL Count : O 1Pk Max 10 d8m -10 d8m	Edge() 20.00 dBm 30 dB 1200/1200	Offset 7 SWT 22	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N 2 Mode / Mode /	Auto FFT.	1 Hoppi	ng Emis	4.16 dE
CF 2.48 GH Band Spectrum Ref Level : Att SGL Count : O IPk Max 10,d8m ,018m -10 d8m	Edge(20.00 dBm 30 dB	Offset 7 SWT 22	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N 2 Mode / Mode /	Auto FFT.	1 Hoppi	ng Emis	4.16 de 15000 G
CF 2.48 GH Band Spectrum Ref Level 3 Att SGL Count 10 dBm -10 dBm	Edge() 20.00 dBm 30 dB 1200/1200	Offset 7 SWT 22	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N 2 Mode / Mode /	Auto FFT.	1 Hoppi	ng Emis	4.16 de 15000 G
CF 2.48 GH Band Spectrum Ref Level 3 Att SGL Count 3 O 1Pk Max 10 d8m -10 d8m -20 d8m	Edge() 20.00 dBm 30 dB 1200/1200	Offset 7 SWT 22	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N 2 Mode / Mode /	Auto FFT.	1 Hoppi	ng Emis	4.16 de 15000 G
CF 2.48 GH	Edge() 20.00 dBm 30 dB 1200/1200	Offset 7 SWT 22	7.07 dB 🖷	IT 2-DH5 RBW 100 kHz YBW 300 kHz	2480N	Auto FFT.	1 Hoppi	2.480	4.16 de 4.16 de 115000 G 554.42 de 55000 G
CF 2.48 GH	Edge() 20.00 dBm 30 dB 1200/1200	Offset 7 SWT 22	7.07 dB 🖷	NT 2-DH5 RBW 100 kHz	2480N	Auto FFT.	1 Hoppi	2.480	4.16 de 4.16 de 115000 G 554.42 de 55000 G
CF 2.48 GH	Edge() 20.00 dBm 30 dB 1200/1200	Offset 7 SWT 22	7.07 dB 🖷	IT 2-DH5 RBW 100 kHz YBW 300 kHz	2480N	Auto FFT.		2.480	4.16 de 15000 G
CF 2.48 GH	Edge() 20.00 dBm 30 dB 1200/1200	Offset 7 SWT 22	7.07 dB 🖷	IT 2-DH5 RBW 100 kHz YBW 300 kHz	2480N	Auto FFT.		2.480	4.16 de 4.16 de 115000 G 554.42 de 55000 G
CF 2.48 GH	1 Edge() 20.00 dBm 30 dB 1200/1200	Offset 7 SWT 22	7.07 dB 🖷	IT 2-DH5 RBW 100 kHz YBW 300 kHz	2480N	Auto FFT.		2.480 2.483	4.16 dt 15000 G 54.42 dt 55000 G
CF 2.48 GH	Edge() 20.00 dBm 30 dB 1200/1200 01 -14.897	Offset 7 SWT 22 dBm	7.07 dB 27.5 µs	IT 2-DH5	2480N	Auto FFT.	Neckyphilos	2.480 2.483	4.16 dE 115000 G 554.42 dE 55000 G
CF 2.48 GH	D1 -14.897	Offset 7 SWT 22 dBm dBm M3 pown(Jwo X-value 2.480	7.07 dB 7.7.5 µs	JT 2-DH5	2480N	Auto FFT.	Neckyphilos	2.480 2.483	4.16 dE 4.16 dE 115000 G 54.42 dE 554.92 dE 55000 G
CF 2.48 GH	Edge() 20.00 dBm 30 dB 1200/1200 01 -14.897 4 01 -14.897 4 0 GHz 1	Offset 7 SWT 22 dBm dBm M3 www.www.dw 2.480 2.480 2.480 2.480 2.480 2.480	.07 dB ??.5 µs	IT 2-DH5	2480N	Auto FFT.	Neckyphilos	2.480 2.483	4.16 dE 4.16 dE 115000 G 54.42 dE 554.92 dE 55000 G



Band F	dge(Hopping) N			nti Honning	Dof
Spectrum	uge(nopping) r			it i nopping	
Ref Level 20.00 dB			in a success		
Att 30 0 SGL Count 8000/80		VBW 300 kHz Mod	le Auto FFT		
● 1Pk Max		1	M1[1]		6,62 0
10 dBm	_			2.	.40599600
5.45.		m	Ann	man	man
0 dBm		1	10 1 2 4 100		
-10 dBm				-	
-20 dBm				-	
-30 dBm-				· · · · · · · · · · · · · · · · · · ·	
South	m	~			
-40 dBm			-		
-50 dBm-	man				
-60 dBm					
			2 1 1 2 2 2 3 1		.1111.111
				-	
-70 dBm					
CF 2.402 GHz	e(Hopping) NVN	1001 pts NT 3-DH5 240	2MHz Ant1	CHREEKE	446
GF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB	om Offset 7.07 dB 🖷	NT 3-DH5 240 RBW 100 kHz		CHREEKE	600
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 of SGL Count 1200/120	offset 7.07 dB dB SWT 227,5 µs	NT 3-DH5 240		CHREEKE	600
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/120 9 1Pk Max	offset 7.07 dB dB SWT 227,5 µs	NT 3-DH5 240 RBW 100 kHz		Hopping Er	mission
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/120 • 1Pk Max 10 dBm	offset 7.07 dB dB SWT 227,5 µs	NT 3-DH5 240 RBW 100 kHz	de Auto FFT	Hopping Er	3.18 c
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 of SGL Count 1200/120 1Pk Max 10 dBm 0 dBm	offset 7.07 dB dB SWT 227,5 µs	NT 3-DH5 240 RBW 100 kHz	de Auto FFT.	Hopping Er	3.18 0 -54.66
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/120 1Pk Max 10 dBm 0 dBm -10 dBm 01 -13.3	5m Offset 7.07 dB dB SWT 227.5 μs 00	NT 3-DH5 240 RBW 100 kHz	de Auto FFT. M1[1] M2[1]	Hopping Er	3.18 (.40305000
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 o SGL Count 1200/120 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm 01 -13.3 -20 dBm	5m Offset 7.07 dB dB SWT 227.5 μs 00	NT 3-DH5 240 RBW 100 kHz	de Auto FFT. M1[1] M2[1]	Hopping Er	3.18 (.40305000
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/120 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -30 dBm	5m Offset 7.07 dB dB SWT 227.5 μs 00	NT 3-DH5 240 RBW 100 kHz	de Auto FFT. M1[1] M2[1]	Hopping Er	3,19 0 -54,66 8
CF 2.402 GHz	5m Offset 7.07 dB dB SWT 227.5 μs 00	NT 3-DH5 240 RBW 100 kH2 YBW 300 kH2 Mo	de Auto FFT. M1[1] M2[1]	Hopping Er	3.18 c
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/121 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm	Sm Offset 7.07 dB dB SWT 227.5 μs 00 79 dBm	NT 3-DH5 240	de Auto FFT	Hopping Er	3.19 -54.66
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/120 PK Max 10 dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	Sm Offset 7.07 dB dB SWT 227.5 μs 00 79 dBm	NT 3-DH5 240	de Auto FFT	Hopping Er	3.18 c
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/120 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -70 dBm -70 dBm -70 dBm	Sm Offset 7.07 dB dB SWT 227.5 μs 00 79 dBm	NT 3-DH5 240	de Auto FFT	Hopping Er	3.18 40305000 -54.66 40008000
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/120 PK Max 10 dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	Sm Offset 7.07 dB dB SWT 227.5 μs 00 79 dBm	NT 3-DH5 240	de Auto FFT	Hopping Er	3.18 40305000 -54.66 40006000
CF 2.402 GHz Band Edge Spectrum Ref Level 20.00 dB Att 30 d SGL Count 1200/120 1Pk Max 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -30 dBm -40 dBm -40 dBm -40 dBm -70 dBm -70 dBm -70 dBm	m Offset 7.07 dB dB SWT 227.5 μs 00 79 dBm 79 dBm	NT 3-DH5 240	de Auto FFT	Hopping Er	3.18 (.40305000 -54.66 (.40000000)
CF 2.402 GHz Band Edg Spectrum Ref Level 20.00 dB Att 30 0 SGL Count 1200/120 IPk Max D dBm D dBm D dBm D dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 2.306 GHz Marker Type Ref Trc	m Offset 7.07 dB dE SWT 227.5 μs 00 179 dBm 179 dBm 179 dBm	NT 3-DH5 240	de Auto FFT M1[1] M2[1] wayhdawywww.a	Hopping Er	3.18 (.40305000 -54.66 (.40000000)





B

NTEK北测

ilac-MR

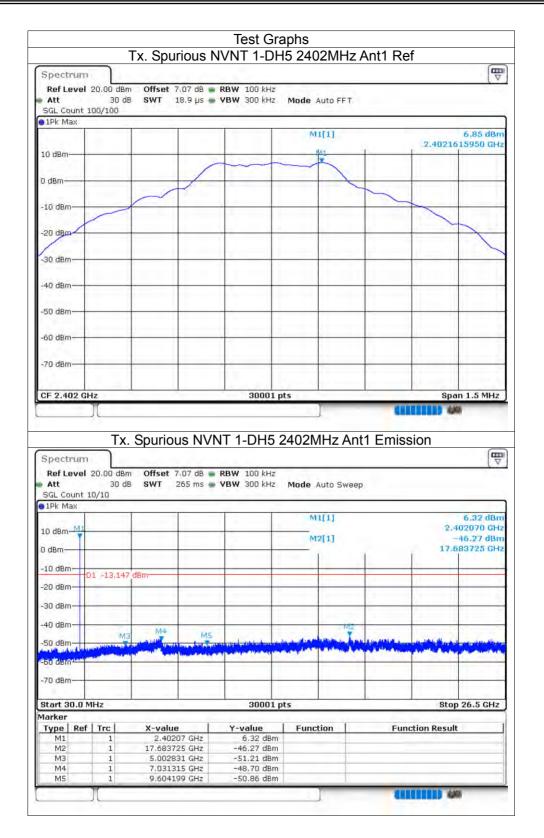




8.9 CONDUCTED RF SPURIOUS EMISSION

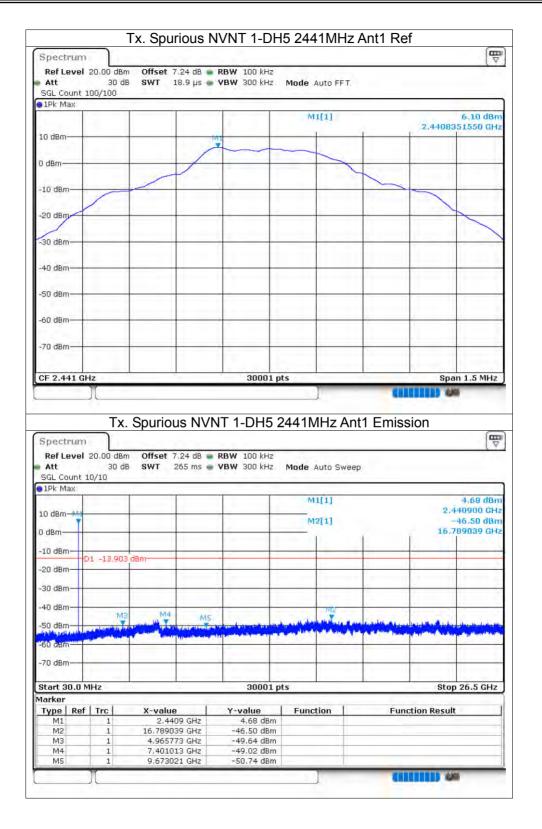
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.12	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.59	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.38	-20	Pass
NVNT	2-DH5	2402	Ant1	-50.95	-20	Pass
NVNT	2-DH5	2441	Ant1	-51.04	-20	Pass
NVNT	2-DH5	2480	Ant1	-50.87	-20	Pass
NVNT	3-DH5	2402	Ant1	-51.71	-20	Pass
NVNT	3-DH5	2441	Ant1	-51	-20	Pass
NVNT	3-DH5	2480	Ant1	-50.47	-20	Pass



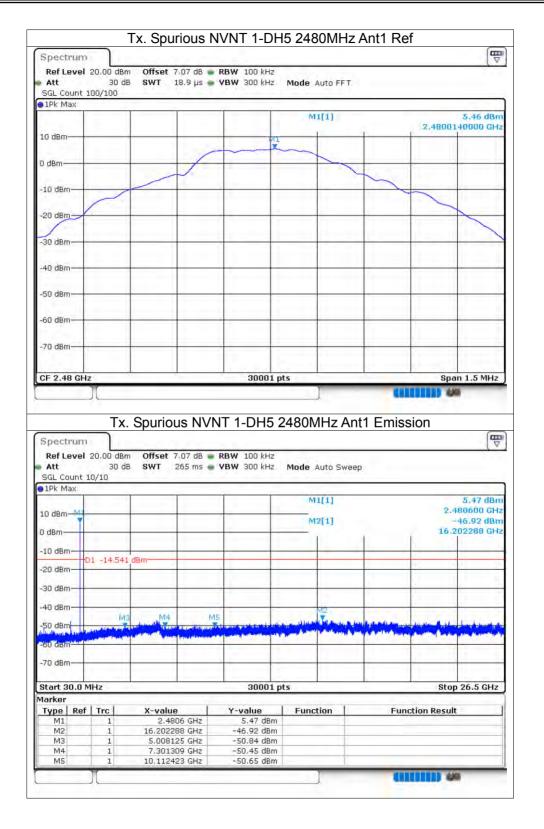


ilac-MR





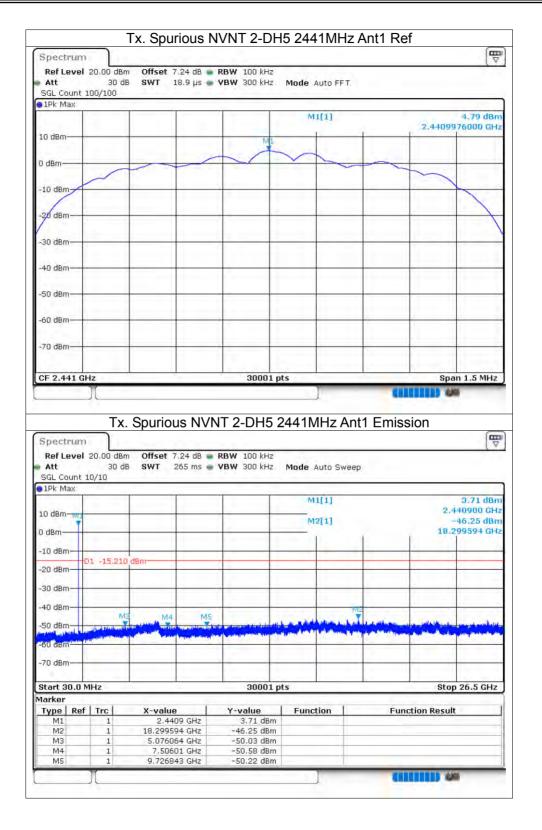




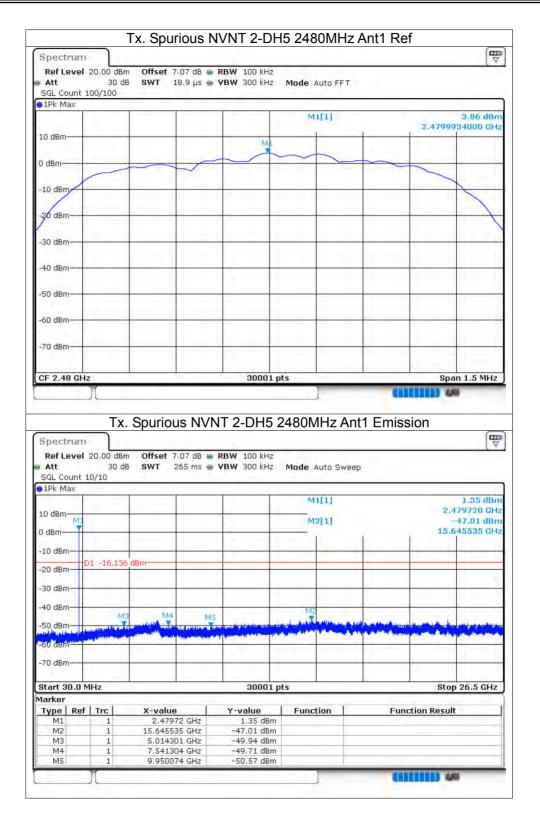


Spectrum				VNT 2-DF					
		Offerst 7	07 40 - 1	RBW 100 kHz	_				
Att				/BW 300 kHz	Mode Aut	OFFT			
SGL Count 1	100/100	9.11.2.1							
1Pk Max						-			
					WT[1	u .		0 40040	4.45 dBn
10 dBm					-			2,902.10	97950 GHa
					MIL				
) dBm			-		~	~		~ <	
	/							1	
-10 dBm							-		
/									
-20 dBm									
-30 dBm	-								
									11 222 1
-40 dBm									
-50 dBm			-					-	
									· · · · ·
-60 dBm									
-70 dBm									
									1
CF 2.402 GH	-lz			30001 p	te			Sna	n 1.5 MHz
Spectrum		Spuriou	s NVN	T 2-DH5 2		Iz Ant1	Emiss	• •	
Ref Level	20.00 dBm	Offset 7.	07 dB 🝙 F	T 2-DH5 2	2402MF		Emiss	• •	
Ref Level Att	20.00 dBm 30 dB	Offset 7.	07 dB 🝙 F	T 2-DH5 2	2402MF		Emiss	• •	
Ref Level Att SGL Count 1	20.00 dBm 30 dB	Offset 7.	07 dB 🝙 F	T 2-DH5 2	2402MF		Emiss	• •	
Ref Level Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	Offset 7.	07 dB 🝙 F	T 2-DH5 2	2402MF	o Sweep	Emiss	ion	(♥ 2.06 dBn
Ref Level Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	Offset 7.	07 dB 🝙 F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBm 602070 GH2
Ref Level Att SGL Count 1 1Pk Max 10 dBm M1	20.00 dBm 30 dB	Offset 7.	07 dB 🝙 F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 1Pk Max 10 dBm M1 0 dBm	20.00 dBm 30 dB	Offset 7.	07 dB 🝙 F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 1Pk Max 10 dBm 10 dBm -10 dBm	20.00 dBm 30 dB	Offset 7. SWT 2	07 dB 🝙 F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 IPk Max 10 dBm 10 dBm -10 dBm	20,00 dBm 30 dB 10/10	Offset 7. SWT 2	07 dB 🝙 F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBm 02070 GH2 46.50 dBm
Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm	20,00 dBm 30 dB 10/10	Offset 7. SWT 2	07 dB 🝙 F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	20,00 dBm 30 dB 10/10	Offset 7. SWT 2	07 dB 🝙 F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 30 dB 10/10	Offset 7. SWT 2	07 dB F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	20,00 dBm 30 dB 10/10	Offset 7, SWT 2	07 dB 🝙 F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBm 02070 GH2 46.50 dBm
Ref Level Att SGL Count 1 PR Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	20.00 dBm 30 dB 10/10	Offset 7, SWT 2	07 dB F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 1Pk Max 1D dBm -10 dBm -20 dBm -30 dBm -40 dBm 50 dBm -50 dBm	20.00 dBm 30 dB 10/10	Offset 7, SWT 2	07 dB F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBm 02070 GH2 46.50 dBm
Ref Level Att SGL Count 1 1Pk Max 1D dBm -10 dBm -20 dBm -30 dBm -40 dBm 50 dBm -50 dBm	20.00 dBm 30 dB 10/10	Offset 7, SWT 2	07 dB F	T 2-DH5 2	2402MH Mode Aut	o Sweep	Emiss	ion 2.4	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 IPk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	20.00 dBm 30 dB 10/10	Offset 7, SWT 2	07 dB F	T 2-DH5 2	2402MH Mode Aut M1[1 	o Sweep	Emiss	2.4 15.5	2.06 dBm 602070 GH2 46,50 dBm 64940 GH2
Ref Level Att SGL Count 1 PR Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -70 dBm -70 dBm -70 dBm	20.00 dBm 30 dB 10/10	Offset 7, SWT 2	07 dB F	T 2-DH5 2	2402MH Mode Aut M1[1 	o Sweep	Emiss	2.4 15.5	2.06 dBn 02070 GH2 46.50 dBn
Ref Level Att SGL Count 1 1Pk Max 10 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm 50	20.00 dBm 30 dB 10/10 01 -15,547 M3	Offset 7, SWT 2	07 dB F	T 2-DH5 2	2402MH Mode Aut M1[1 	o Sweep		2.4 15.5	2.06 dBm 02070 GH2 46.50 dBm 064940 GH2
Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm Start 30.0 W Aarker Type Ref M1	20.00 dBm 30 dB 10/10 01 -15,547 M3 M4 MHz	Offset 7, SWT 2 dBm M-4 X-value 2.4020	07 dB F F 65 ms F V M5 M5 7 GHz	T 2-DH5 2	2402MH Mode Aut M1[1 M2[1	o Sweep		ion 2.4 15.9	2.06 dBm 02070 GH2 46.50 dBm 064940 GH2
Att SGL Count 1 SGL Count 1 IPk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	20.00 dBm 30 dB 10/10 01 -15,547 M3 MHz MHz Trc 1	Offset 7, SWT 2 dBm M-4 X-value 2,4020 15.9649	07 dB 1 1 55 ms 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 2-DH5 2	2402MH Mode Aut M1[1 M2[1	o Sweep		ion 2.4 15.9	2.06 dBm 02070 GH2 46.50 dBm 064940 GH2
Ref Level Att SGL Count 1 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm Start 30.0 W Aarker Type Ref M1	20.00 dBm 30 dB 10/10 01 -15,547 M3 M4 MHz	Offset 7, SWT 2 dBm M-4 X-value 2.4020	07 dB 1 1 65 ms 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 2-DH5 2	2402MH Mode Aut M1[1 M2[1	o Sweep		ion 2.4 15.9	2.06 dBm 02070 GH2 46.50 dBm 064940 GH2
Ref Level SGL Count 1 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	20.00 dBm 30 dB 10/10 01 -15,547 M3 M4Hz HHz Tre 1 1 1	Offset 7, SWT 2 dBm M4 X-value 2.4020 15.9649 4.94371	07 dB 1 1 55 ms 1 M5 M5 7 GHz 4 GHz 5 GHz	T 2-DH5 2	2402MH Mode Aut M1[1 M2[1	o Sweep		ion 2.4 15.9	2.06 dBm 02070 GH2 46.50 dBm 064940 GH2



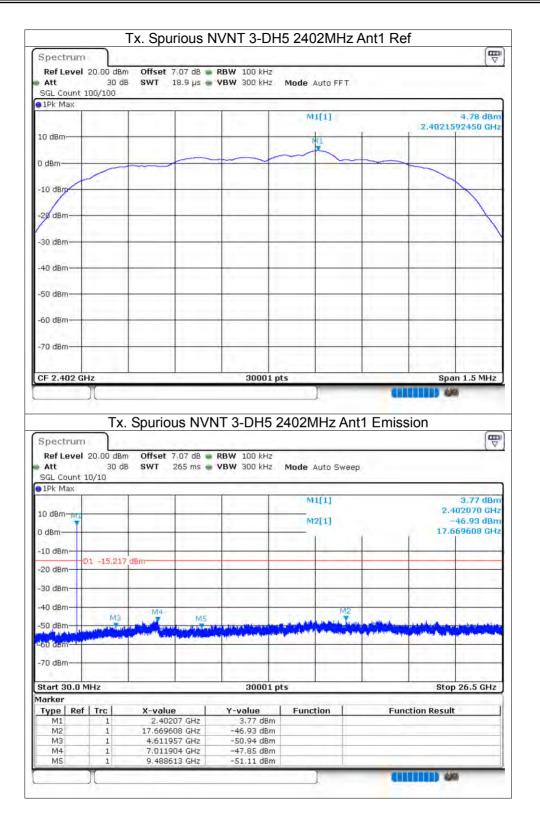






ilac-MR

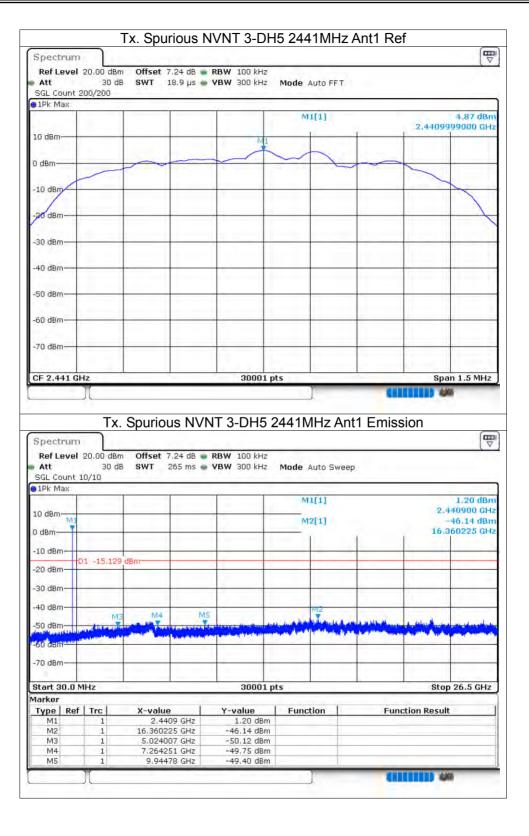






ACCREDITED Certificate #4298.01

Report No.: STR230329003001E





Certificate #4298.01

Report No.: STR230329003001E

