

Prepared for

PIPO TECHNOLOGY CO., LIMITED

Area C, 3F, Bao Yun Da Logistics Centre, Warehouse Xi Xiang Avenue, Bao An District, Shenzhen, China.

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, 0755-3699 5508 Website: http://www.ntek.org.cn





Report No.: STR201221002001E

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1 TEST RESULT CERTIFICATION

Applicant's name:	PIPO TECHNOLOGY CO., LIMITED
Address:	Area C, 3F, Bao Yun Da Logistics Centre, Warehouse Xi Xiang Avenue, Bao An District, Shenzhen, China.
Manufacturer's Name:	PIPO TECHNOLOGY CO., LIMITED
Address:	Area C, 3F, Bao Yun Da Logistics Centre, Warehouse Xi Xiang Avenue, Bao An District, Shenzhen, China.
Product description	
Product name:	Tablet PC
Model and/or type reference:	К803
Family Model:	K105, K105B, K803-V01, K803-V02, K105-V01,K105-V02

Certificate #4298.01

Measurement Procedure Used:

APPLICABLE STANDARDS STANDARD/ TEST PROCEDURE TEST RESULT FCC 47 CFR Part 2, Subpart J Complied FCC 47 CFR Part 15, Subpart C Complied 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.

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

Date of Test	: Dec 21 2020 ~ Jan 15, 2021
Testing Engineer	: Jiawan
Technical Manager	(Cheng Jiawen) : Jasmchen
	(Jason Chen)
Authorized Signatory	:(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:

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





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

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 Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 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%
9	All emissions, radiated(9KHz~30MHz)	±6dB

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	Tablet PC	
Trade Mark	Рорру	
FCC ID	PT7-K803	
Model No.	К803	
Family Model	K105, K105B, K803-V01, K803-V02, K105-V01,K105-V02	
Model Difference	All the model are the same circuit and RF module, except the Model names.	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8-DPSK	
Number of Channels	79 Channels	
Antenna Type	PIFA Antenna	
Antenna Gain	1.8 dBi	
Power supply	DC 3.7V/ 4000mAh from battery or DC 5V from Adapter.	
Adapter	Model: FX2U-050200U Input: 100-240V~50/60Hz 0.4A max Output: 5V2.0A	
HW Version	JS-S866T-9863A-V1.0	
SW Version	S866t_W20.19.4_P1_20210118	

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

Note 2: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode. The dialing commands(*#*#83781#*#*) to enter into the engineer mode, the power level is the software default value.





Revision History				
Report No.	Version	Description	Issued Date	
STR201221002001E	Rev.01	Initial issue of report	Jan 15, 2021	



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	

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

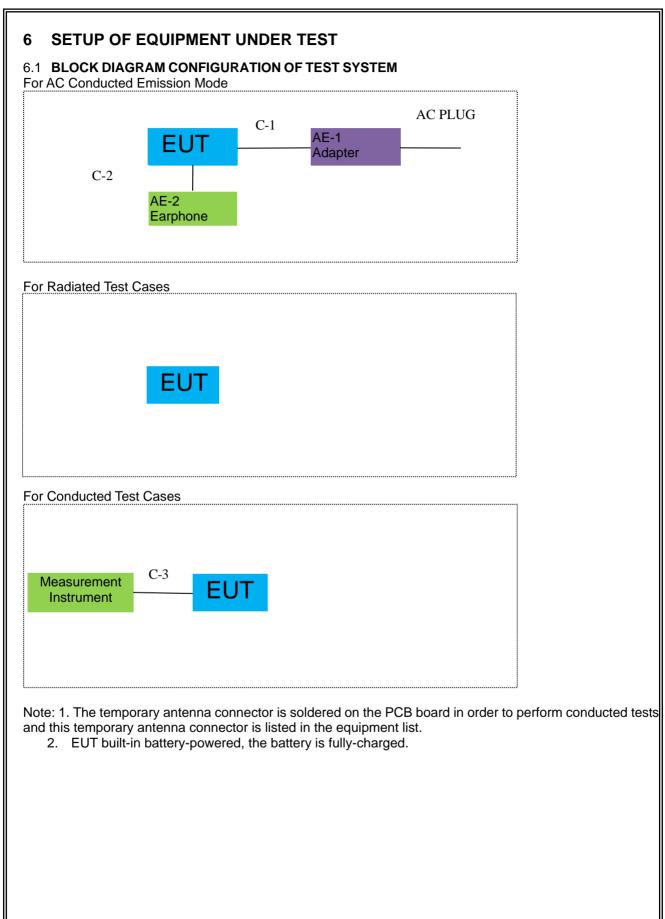
For Radiated Test Cases		
Final Test Mode	Description	
Mode 1	normal link mode	
Mode 2	CH00(2402MHz)	
Mode 3	CH39(2441MHz)	
Mode 4	CH78(2480MHz)	

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

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 continuously transmitting mode.







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	FX2U-050200U	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	1.0m
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".



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

na conducted i	estequipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
Spectrum Analyzer	Aglient	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13	2021.07.12	1 year
Spectrum Analyzer	R&S	FSV40	101417	2020.07.13	2021.07.12	1 year
Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
Horn Antenna	EM	EM-AH-1018 0	2011071402	2020.04.11	2021.04.10	1 year
Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.12.10	2021.12.09	1 year
Amplifier	EMC	EMC051835 SE	980246	2020.07.13	2021.07.12	1 year
Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.12.10	2021.12.09	1 year
Power Meter	DARE	RPR3006W	15I00041SN 084	2020.07.13	2021.07.12	1 year
Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.6	2022.08.05	3 year
Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.6	2022.08.05	3 year
High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2020.04.11	2021.04.10	1 year
Filter	TRILTHIC	2400MHz	29	2020.07.13	2021.07.12	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
	Kind of EquipmentSpectrum AnalyzerSpectrum AnalyzerSpectrum AnalyzerSpectrum Constant SopectrumBilog Antenna50Ω Coaxial SwitchBilog AntennaBroadband Horn AntennaBroadband Horn AntennaPower MeterTest Cable (9KHz-30MHz)Test Cable (30MHz-1GHz)High Test Cable(1G-40G Hz)High Test Cable(1G-40G Hz)Filtertemporary antenna connector	EquipmentManufacturerSpectrum AnalyzerAglientSpectrum AnalyzerAgilentSpectrum AnalyzerR&SSpectrum AnalyzerR&STest ReceiverR&SBilog AntennaTESEQ500 Coaxial SwitchAnritsuHorn AntennaEMBroadband Horn AntennaSCHWARZBE CKAmplifierEMCAntennaCKPower MeterDARETest Cable (9KHz-30MHz)N/ATest Cable (30MHz-1GHz)N/AHigh Test Cable(1G-40G Hz)N/AHigh Test Cable(1G-40G Hz)N/AFilterTRILTHICtemporary antenna connectorNTS	Kind of EquipmentManufacturerType No.Spectrum AnalyzerAglientE4407BSpectrum AnalyzerAgilentN9020ASpectrum AnalyzerR&SFSV40Test ReceiverR&SESPI7Bilog AntennaTESEQCBL6111D50Ω Coaxial SwitchAnritsuMP59BHorn AntennaEM6000Broadband Horn AntennaSCHWARZBE CKBBHA 9170AmplifierEMCEMC051835 SEActive Loop AntennaSCHWARZBE CKFMZB 1519 BPower MeterDARERPR3006WTest Cable (9KHz-30MHz)N/AR-01Test Cable (30MHz-1GHz)N/AR-03 Hz)High Test Cable(1G-40G Hz)N/AR-03 AR-03 Hz)High Test Cable(1G-40G Hz)N/AR-04 R-04 Hz)FilterTRILTHIC2400MHz	Kind of EquipmentManufacturerType No.Serial No.Spectrum AnalyzerAglientE4407BMY45108040Spectrum AnalyzerAgilentN9020AMY49100060Spectrum AnalyzerR&SFSV40101417Test ReceiverR&SESPI7101318Bilog AntennaTESEQCBL6111D3121650Ω Coaxial SwitchAnritsuMP59B6200983705Horn AntennaEMEM-AH-1018 02011071402Broadband Horn AntennaSCHWARZBE CKBBHA 9170803AmplifierEMCEMC051835 SE980246Active Loop AntennaSCHWARZBE CKFMZB 1519 B055Power MeterDARERPR3006W15100041SN Q84Test Cable (9KH2-30MHz)N/AR-01N/ATest Cable (30MHz-1GHz)N/AR-03N/AHigh Test Cable(1G-40G Hz)N/AR-03N/AHigh Test Cable(1G-40G Hz)N/AR-04N/AHigh Test Cable(1G-40G Hz)N/AR-04N/AFilterTRILTHIC2400MHz29temporary antenna connectorNTSR001N/A	Kind of EquipmentManufacturerType No.Serial No.Last calibrationSpectrum AnalyzerAglientE4407BMY451080402020.05.11Spectrum AnalyzerAgilentN9020AMY491000602020.07.13Spectrum AnalyzerR&SFSV401014172020.07.13Spectrum AnalyzerR&SESPI71013182020.05.11Bilog AntennaTESEQCBL6111D312162020.04.11500 Coaxial SwitchAnritsuMP59B62009837052020.04.11Horn AntennaEMEM-AH-1018 020110714022020.04.11Broadband Horn AntennaEMCEMC051835 SE9802462020.07.13ArteinaCKBBHA 91708032020.12.10AmplifierEMCEMC051835 SE9802462020.07.13Active Loop AntennaSCHWARZBE CKFMZB 1519 B0552020.12.10Power MeterDARERPR3006W15100041SN O842019.08.6Test Cable (30MHz-1GHz)N/AR-02N/A2019.08.6High Test Cable(1G-40G Hz)N/AR-03N/A2019.06.28High Test Cable(1G-40G Hz)N/AR-04N/A2020.07.13Temporary antennaTRILTHIC2400MHz292020.07.13High Test Cable(1G-40G Hz)N/AR-04N/AN/AFilterTRILTHIC2400MHz292020.07.13	Kind of EquipmentManufacturerType No.Serial No.Last calibrationCalibrated untilSpectrum AnalyzerAglientE4407BMY451080402020.05.112021.05.10Spectrum AnalyzerAglientN9020AMY491000602020.07.132021.07.12Spectrum AnalyzerR&SFSV401014172020.07.132021.07.12Spectrum AnalyzerR&SESPI71013182020.05.112021.07.12Test ReceiverR&SESPI71013182020.05.112021.04.10Bilog AntennaTESEQCBL6111D312162020.05.112023.05.10SwitchAnritsuMP59B6209837052020.05.112021.04.10Broadband Horn AntennaEMEM-AH-1018 02010.07.122021.04.10Broadband Horn AntennaEMCEMC051835 S9802462020.07.132021.07.12Active Loop AntennaSCHWARZEB CKFMZB 1519 B0552020.12.102021.07.12Power MeterDARERP3006W15100041SN 0842020.07.132021.07.12Test Cable (9KHz-30MHz)N/AR-01N/A2019.08.62022.08.05High Test Cable(1G-40G Hz)N/AR-03N/A2019.06.282022.06.27High Test Cable(1G-40G Hz)N/AR-04N/A2020.07.132021.07.12High Test Cable(1G-40G Hz)N/AR-04N/A2020.07.132021.07.12High Test Cable(1G-40G Hz)

Note:

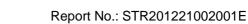
We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list





AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.04.11	2021.04.10	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2020.05.11	2021.05.10	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Čable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	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	

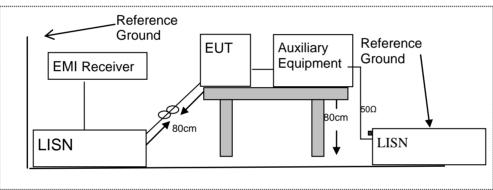
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Note: 1. *Decreases with the logarithm of the frequency

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.
- 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.
- 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:	Tablet PC	Model Name :	K803
Temperature:	21.8 ℃	Relative Humidity:	41%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

ACCRED

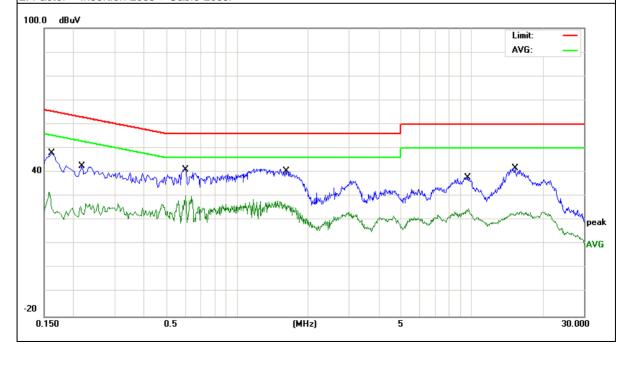
Certificate #4298.01

ilac

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	38.25	9.56	47.81	65.36	-17.55	QP
0.1620	22.21	9.56	31.77	55.36	-23.59	AVG
0.2179	32.86	9.55	42.41	62.89	-20.48	QP
0.2179	16.14	9.55	25.69	52.89	-27.20	AVG
0.6060	30.84	9.55	40.39	56.00	-15.61	QP
0.6060	20.74	9.55	30.29	46.00	-15.71	AVG
1.6180	30.79	9.58	40.37	56.00	-15.63	QP
1.6180	18.57	9.58	28.15	46.00	-17.85	AVG
9.5937	28.00	9.70	37.70	60.00	-22.30	QP
9.5937	15.05	9.70	24.75	50.00	-25.25	AVG
15.2660	31.97	9.78	41.75	60.00	-18.25	QP
15.2660	13.76	9.78	23.54	50.00	-26.46	AVG

Remark:

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





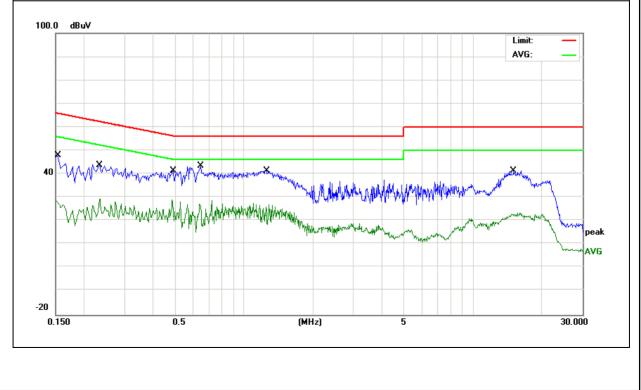


EUT: Tab		Tablet PC	ablet PC Model Name : K803		Model Name : K803			
Temperature: 21.8 °C		21.8 ℃			Relative Humidity:		41%	
Pressure:		1010hPa			Phase :		N	
Test Voltage :		DC 5V fro	om Adapter AC	120V/60Hz	Test Mode:		Mode 1	1
Frequency	Rea	ding Level	Correct Factor	Measure-ment	Limits	Ма	rgin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(c	IB)	Remark
0.1539		38.31	9.55	47.86	65.78	-17	7.92	QP
0.1539		18.90	9.55	28.45	55.78	-27	7.33	AVG
0.2340		34.34	9.54	43.88	62.30	-18	3.42	QP
0.2340		19.84	9.54	29.38	52.30	-22	2.92	AVG
0.4899		31.75	9.54	41.29	56.17	-14	1.88	QP
0.4899		19.45	9.54	28.99	46.17	-17	7.18	AVG
0.6460		33.83	9.54	43.37	56.00	-12	2.63	QP
0.6460		17.66	9.54	27.20	46.00	-18	3.80	AVG
1.2540		31.75	9.55	41.30	56.00	-14	1.70	QP
1.2540		17.34	9.55	26.89	46.00	-19	9.11	AVG
15.0220		31.72	9.75	41.47	60.00	-18	3.53	QP
15.0220		13.54	9.75	23.29	50.00	-26	6.71	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

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

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According to 1 CC 1 art 13:203, Restricted bands			
MHz	MHz	GHz	
16.42-16.423	399.9-410	4.5-5.15	
16.69475-16.69525	608-614	5.35-5.46	
16.80425-16.80475	960-1240	7.25-7.75	
25.5-25.67	1300-1427	8.025-8.5	
37.5-38.25	1435-1626.5	9.0-9.2	
73-74.6	1645.5-1646.5	9.3-9.5	
74.8-75.2	1660-1710	10.6-12.7	
123-138	2200-2300	14.47-14.5	
149.9-150.05	2310-2390	15.35-16.2	
156.52475-156.52525	2483.5-2500	17.7-21.4	
156.7-156.9	2690-2900	22.01-23.12	
162.0125-167.17	3260-3267	23.6-24.0	
167.72-173.2	3332-3339	31.2-31.8	
240-285	3345.8-3358	36.43-36.5	
322-335.4	3600-4400	(2)	
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358	

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)		
Frequency(MHZ)	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.



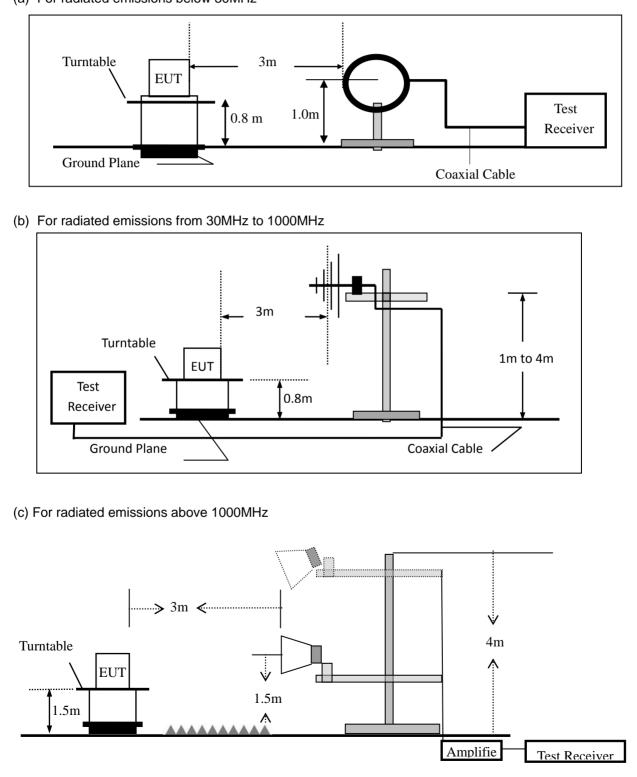
7.2.3 Measuring Instruments

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

Certificate #4298.01

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.

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1 MHz for Average
	0

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 t	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:	Tablet PC	Model No.:	K803
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen

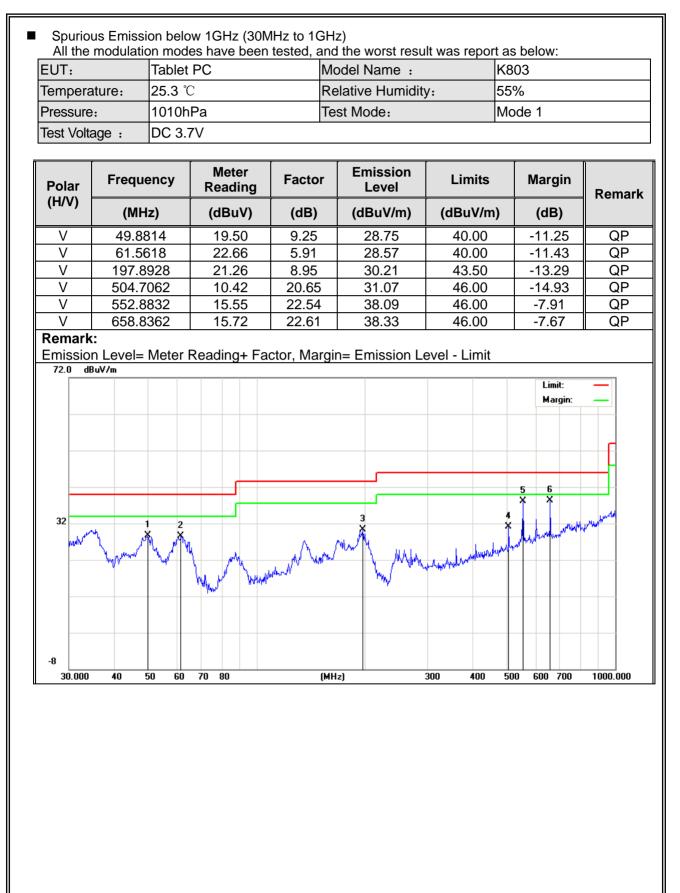
Freq.	Ant.Pol.	Emission L	.evel(dBuV/m)	Limit 3	m(dBuV/m)	Over	r(dB)
(MHz)	H/V	PK AV		PK	AV	PK	AV
							r(dB) AV

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

NTEKJL测



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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	167.8243	18.46	10.72	29.18	43.50	-14.32	QP
Н	197.2001	23.74	8.90	32.64	43.50	-10.86	QP
Н	248.5519	22.02	13.29	35.31	46.00	-10.69	QP
Н	360.4476	15.35	16.27	31.62	46.00	-14.38	QP
Н	552.8832	19.75	22.54	42.29	46.00	-3.71	QP
Н	658.8362	15.91	22.61	38.52	46.00	-7.48	QP
						Limit: Margin:	
32 MwA	Muuummuum Winne W	MMmm / hu	1 X-W-JANGULANY			5 5 5 5 5 5 5 5 5 5 5 5 5 5	
-8	0 40 50 60	70 80	(MHz	.) 31	0 400 500	600 700	1000.000





Spurious	Emission /	Above 10	GHz (1GHz	to 25GH	z)				
EUT:	T: Tablet PC			Model	No.:	K803			
Temperature	e: 20 °C	2		Relativ	ve Humidity	: 48%			
Test Mode:	Mode	e2/Mode	3/Mode4	Test B	By:	Chen	g Jiawen		
All the modul	ation mode	s have b	een tested	, and the	worst result	was repor	t as below	/:	
						-			
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Rema	rk Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Chann	el (2402 M	Hz)(8-DPSK)	Above 1G			
4804	66.82	5.21	35.59	44.30	63.32	74.00	-10.68	Pk	Vertical
4804	45.98	5.21	35.59	44.30	42.48	54.00	-11.52	AV	Vertical
7206	65.15	6.48	36.27	44.60	63.30	74.00	-10.70	Pk	Vertical
7206	51.02	6.48	36.27	44.60	49.17	54.00	-4.83	AV	Vertical
4804	70.05	5.21	35.55	44.30	66.51	74.00	-7.49	Pk	Horizontal
4804	49.56	5.21	35.55	44.30	46.02	54.00	-7.98	AV	Horizontal
7206	64.71	6.48	36.27	44.52	62.94	74.00	-11.06	Pk	Horizontal
7206	44.31	6.48	36.27	44.52	42.54	54.00	-11.46	AV	Horizontal
			Mid Channe	el (2441 M⊦	lz)(8-DPSK)	Above 1G			
4882	63.66	5.21	35.66	44.20	60.33	74.00	-13.67	Pk	Vertical
4882	47.79	5.21	35.66	44.20	44.46	54.00	-9.54	AV	Vertical
7323	62.56	7.10	36.50	44.43	61.73	74.00	-12.27	Pk	Vertical
7323	46.57	7.10	36.50	44.43	45.74	54.00	-8.26	AV	Vertical
4882	64.32	5.21	35.66	44.20	60.99	74.00	-13.01	Pk	Horizontal
4882	49.12	5.21	35.66	44.20	45.79	54.00	-8.21	AV	Horizontal
7323	65.70	7.10	36.50	44.43	64.87	74.00	-9.13	Pk	Horizontal
7323	46.42	7.10	36.50	44.43	45.59	54.00	-8.41	AV	Horizontal
		F	ligh Channe	el (2480 Mł	Hz)(8-DPSK) Above 10	6		
4960	63.37	5.21	35.52	44.21	59.89	74.00	-14.11	Pk	Vertical
4960	48.12	5.21	35.52	44.21	44.64	54.00	-9.36	AV	Vertical
7440	66.39	7.10	36.53	44.60	65.42	74.00	-8.58	Pk	Vertical
7440	46.10	7.10	36.53	44.60	45.13	54.00	-8.87	AV	Vertical
4960	63.35	5.21	35.52	44.21	59.87	74.00	-14.13	Pk	Horizontal
4960	46.36	5.21	35.52	44.21	42.88	54.00	-11.12	AV	Horizontal
7440	67.30	7.10	36.53	44.60	66.33	74.00	-7.67	Pk	Horizontal
7440	46.31	7.10	36.53	44.60	45.34	54.00	-8.66	AV	Horizontal

Note:

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





Spurious	Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz									
EUT:	Tablet PC			Model	No.:	1	K803			
Temperature	: 20 ℃			Relativ	e Humidity	': 4	48%			
Test Mode:	Mode2/ Mo	de4		Test B	y:	(Cheng	Jiawen		
All the modu	lation modes	s have b	een testeo	d, and the	worst resu	lt was	s repoi	rt as belo	w:	
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lir	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	JV/m)	(dB)	Туре	
			3Mbp	os(8-DPSK	()- Non-hop	ping				
2310.00	67.44	2.97	27.80	43.80	54.41		74	-19.59	Pk	Horizontal
2310.00	47.96	2.97	27.80	43.80	34.93		54	-19.07	AV	Horizontal
2310.00	67.11	2.97	27.80	43.80	54.08	7	74	-19.92	Pk	Vertical
2310.00	48.34	2.97	27.80	43.80	35.31	5	54	-18.69	AV	Vertical
2390.00	66.79	3.14	27.21	43.80	53.34	7	74	-20.66	Pk	Vertical
2390.00	50.29	3.14	27.21	43.80	36.84	5	54	-17.16	AV	Vertical
2390.00	68.50	3.14	27.21	43.80	55.05	7	74	-18.95	Pk	Horizontal
2390.00	50.93	3.14	27.21	43.80	37.48	5	54	-16.52	AV	Horizontal
2483.50	68.48	3.58	27.70	44.00	55.76	7	74	-18.24	Pk	Vertical
2483.50	46.60	3.58	27.70	44.00	33.88	5	54	-20.12	AV	Vertical
2483.50	70.10	3.58	27.70	44.00	57.38	7	74	-16.62	Pk	Horizontal
2483.50	52.45	3.58	27.70	44.00	39.73	5	54	-14.27	AV	Horizontal
			31	Mbps(8-DF	SK)- hoppin	g				
2310.00	72.51	2.97	27.80	43.80	59.48	7	74	-14.52	Pk	Horizontal
2310.00	51.35	2.97	27.80	43.80	38.32	5	54	-15.68	AV	Horizontal
2310.00	71.45	2.97	27.80	43.80	58.42	7	74	-15.58	Pk	Vertical
2310.00	49.23	2.97	27.80	43.80	36.20	5	54	-17.80	AV	Vertical
2390.00	66.03	3.14	27.21	43.80	52.58	7	74	-21.42	Pk	Vertical
2390.00	44.97	3.14	27.21	43.80	31.52	5	54	-22.48	AV	Vertical
2390.00	66.29	3.14	27.21	43.80	52.84	7	74	-21.16	Pk	Horizontal
2390.00	48.16	3.14	27.21	43.80	34.71	5	54	-19.29	AV	Horizontal
2483.50	71.36	3.58	27.70	44.00	58.64	7	74	-15.36	Pk	Vertical
2483.50	50.10	3.58	27.70	44.00	37.38	5	54	-16.62	AV	Vertical
2483.50	64.11	3.58	27.70	44.00	51.39	7	74	-22.61	Pk	Horizontal
2483.50	48.50	3.58	27.70	44.00	35.78	5	54	-18.22	AV	Horizontal

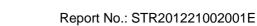
Note: (1) All other emissions more than 20dB below the limit.





EUT:	Tablet	Tablet PC			Model No.: K803				
Temperature:	20 ℃	20 °C Relative Humidity: 48%							
Test Mode:	Mode	2/ Mode	4	Test B	y:	Che	eng Jiawen		
All the modul	lation mode	s have b	een testeo	d, and the	worst resu	lt was re	port as bel	SW:	
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/r	n) (dB)	Туре	
3260	66.80	4.04	29.57	44.70	55.71	74	-18.29	Pk	Vertical
3260	49.76	4.04	29.57	44.70	38.67	54	-15.33	AV	Vertical
3260	67.46	4.04	29.57	44.70	56.37	74	-17.63	Pk	Horizonta
3260	50.65	4.04	29.57	44.70	39.56	54	-14.44	AV	Horizonta
3332	64.99	4.26	29.87	44.40	54.72	74	-19.28	Pk	Vertical
3332	47.91	4.26	29.87	44.40	37.64	54	-16.36	AV	Vertical
3332	63.17	4.26	29.87	44.40	52.90	74	-21.10	Pk	Horizonta
3332	49.84	4.26	29.87	44.40	39.57	54	-14.43	AV	Horizonta
17797	46.60	10.99	43.95	43.50	58.04	74	-15.96	Pk	Vertical
17797	37.35	10.99	43.95	43.50	48.79	54	-5.21	AV	Vertical
17788	49.72	11.81	43.69	44.60	60.62	74	-13.38	Pk	Horizontal
17788	34.32	11.81	43.69	44.60	45.22	54	-8.78	AV	Horizonta

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.

Certificate #4298.01

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:	Tablet PC	Model No.:	K803
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Cheng Jiawen



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.

Certificate #4298 01

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:	Tablet PC	Model No.:	K803
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen





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:	Tablet PC	Model No.:	K803
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen

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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:	Tablet PC	Model No.:	K803
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	48% Cheng Jiawen



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 \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	Tablet PC	Model No.:	K803 48%
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Cheng Jiawen



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 §15.205(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:	Tablet PC	Model No.:	K803
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Cheng Jiawen



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: 1.8dBi). It comply with the standard requirement.



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.

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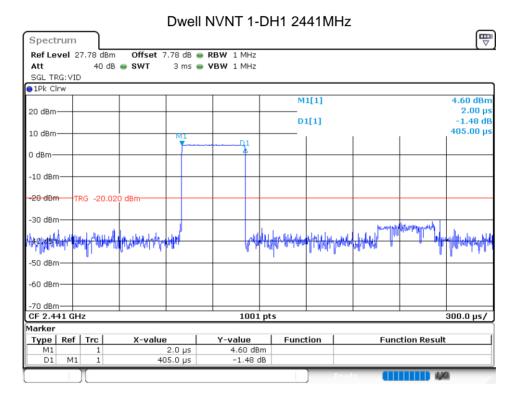
8 TEST RESULTS

8.1 **DWELL TIME**

Condition	Mode	Frequency	Pulse	Total Dwell	Period	Limit	Verdict				
	Mode	(MHz)	Time (ms)	Time (ms)	Time (ms)	(ms)					
NVNT	1-DH1	2441	0.405	129.6	31600	400	Pass				
NVNT	1-DH3	2441	1.66	265.6	31600	400	Pass				
NVNT	1-DH5	2441	2.904	309.76	31600	400	Pass				
NVNT	2-DH1	2441	0.396	126.72	31600	400	Pass				
NVNT	2-DH3	2441	1.64	262.4	31600	400	Pass				
NVNT	2-DH5	2441	2.888	308.053	31600	400	Pass				
NVNT	3-DH1	2441	0.387	123.84	31600	400	Pass				
NVNT	3-DH3	2441	1.635	261.6	31600	400	Pass				
NVNT	3-DH5	2441	2.872	306.347	31600	400	Pass				

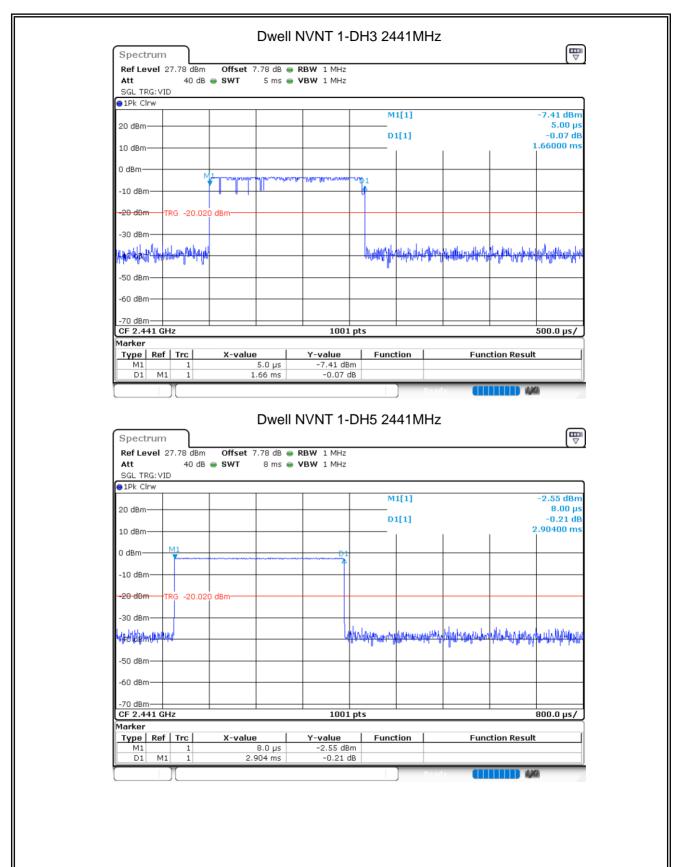
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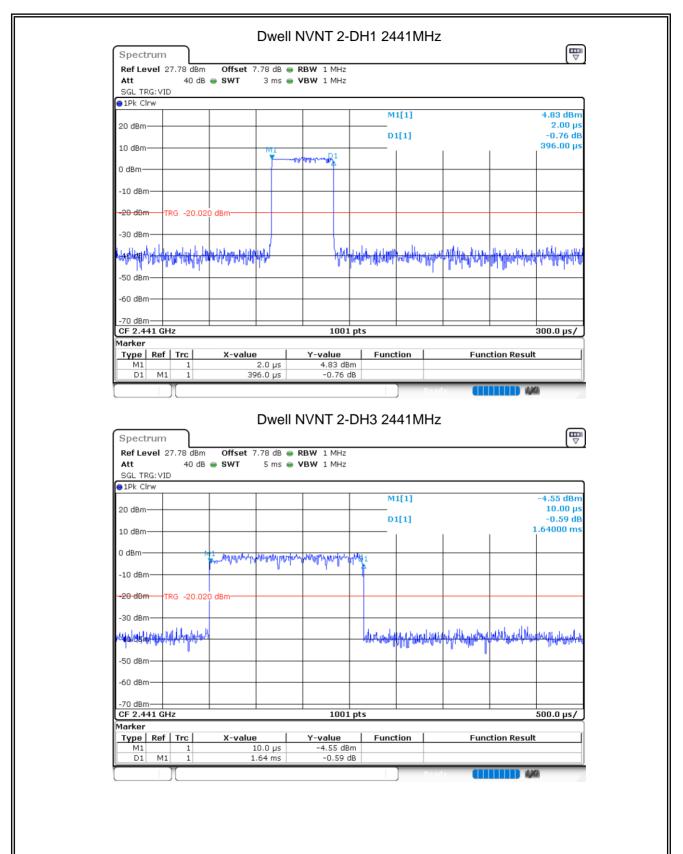


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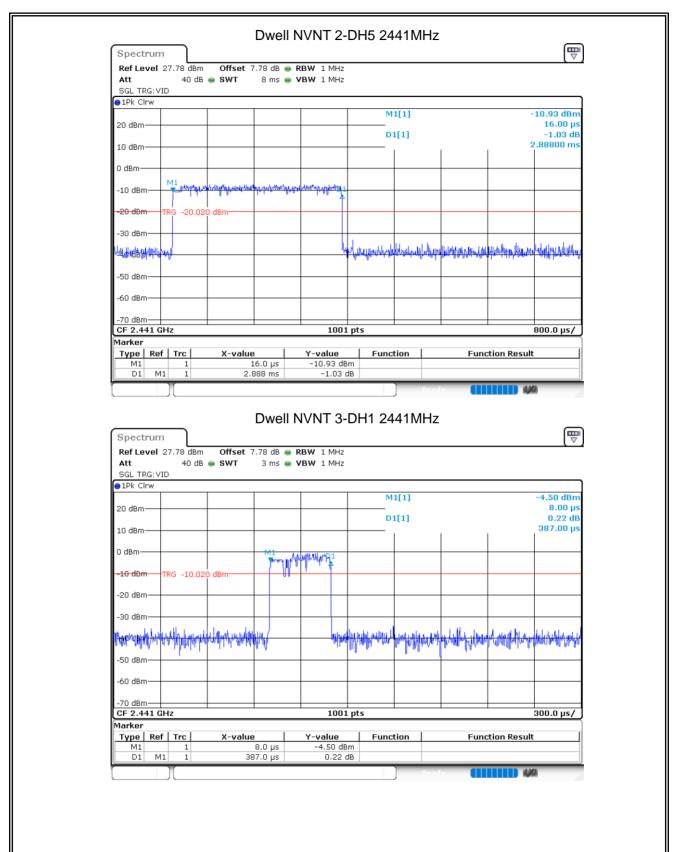






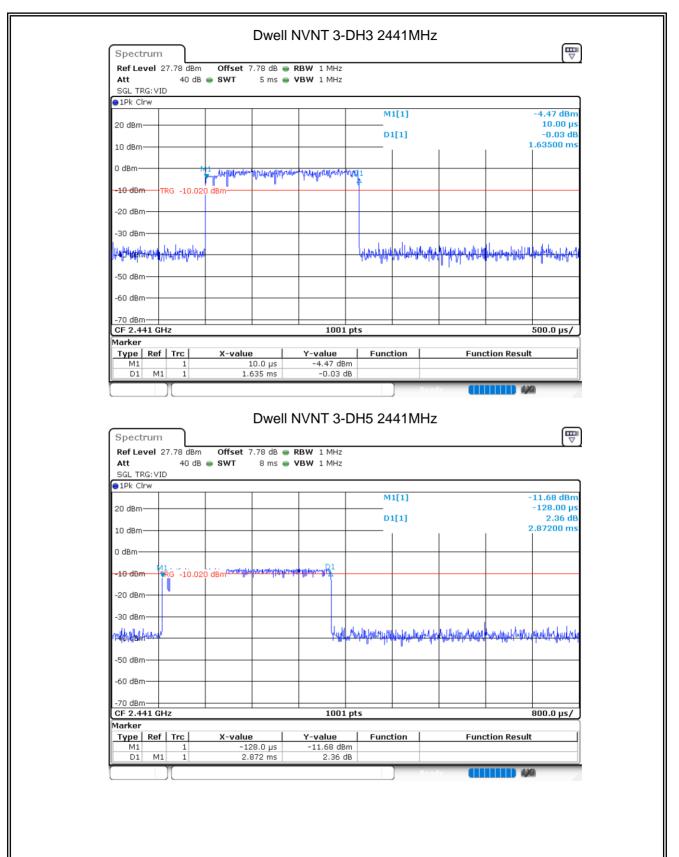












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8.2 MAXIMUM CONDUCTED OUTPUT POWER

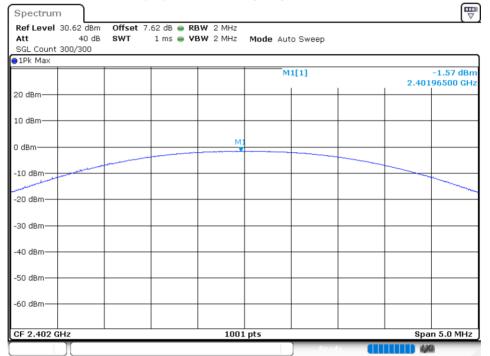
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		••				
Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	-1.574	30	Pass
NVNT	1-DH5	2441	Ant 1	-2.002	30	Pass
NVNT	1-DH5	2480	Ant 1	-2.295	30	Pass
NVNT	2-DH5	2402	Ant 1	-0.185	21	Pass
NVNT	2-DH5	2441	Ant 1	-0.481	21	Pass
NVNT	2-DH5	2480	Ant 1	-0.744	21	Pass
NVNT	3-DH5	2402	Ant 1	0.049	21	Pass
NVNT	3-DH5	2441	Ant 1	0.011	21	Pass
NVNT	3-DH5	2480	Ant 1	-0.47	21	Pass
	NVNT NVNT NVNT NVNT NVNT NVNT NVNT	NVNT 1-DH5 NVNT 1-DH5 NVNT 1-DH5 NVNT 2-DH5 NVNT 2-DH5 NVNT 2-DH5 NVNT 2-DH5 NVNT 3-DH5 NVNT 3-DH5 NVNT 3-DH5	NVNT 1-DH5 2402 NVNT 1-DH5 2441 NVNT 1-DH5 2480 NVNT 2-DH5 2402 NVNT 2-DH5 2402 NVNT 2-DH5 2441 NVNT 2-DH5 2442 NVNT 2-DH5 2442 NVNT 2-DH5 2480 NVNT 3-DH5 2402 NVNT 3-DH5 2441	NVNT 1-DH5 2402 Ant 1 NVNT 1-DH5 2441 Ant 1 NVNT 1-DH5 2480 Ant 1 NVNT 1-DH5 2480 Ant 1 NVNT 2-DH5 2402 Ant 1 NVNT 2-DH5 2402 Ant 1 NVNT 2-DH5 2441 Ant 1 NVNT 2-DH5 2480 Ant 1 NVNT 2-DH5 2402 Ant 1 NVNT 3-DH5 2402 Ant 1 NVNT 3-DH5 2441 Ant 1	NVNT 1-DH5 2402 Ant 1 -1.574 NVNT 1-DH5 2441 Ant 1 -2.002 NVNT 1-DH5 2480 Ant 1 -2.295 NVNT 2-DH5 2402 Ant 1 -0.185 NVNT 2-DH5 2441 Ant 1 -0.481 NVNT 2-DH5 2480 Ant 1 -0.744 NVNT 2-DH5 2402 Ant 1 0.049 NVNT 3-DH5 2441 Ant 1 0.011	NVNT 1-DH5 2402 Ant 1 -1.574 30 NVNT 1-DH5 2441 Ant 1 -2.002 30 NVNT 1-DH5 2480 Ant 1 -2.295 30 NVNT 1-DH5 2402 Ant 1 -2.295 30 NVNT 2-DH5 2402 Ant 1 -0.185 21 NVNT 2-DH5 2441 Ant 1 -0.481 21 NVNT 2-DH5 2480 Ant 1 -0.744 21 NVNT 3-DH5 2402 Ant 1 0.049 21 NVNT 3-DH5 2441 Ant 1 0.011 21

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Certificate #4298.01

Power NVNT 1-DH5 2402MHz Ant1





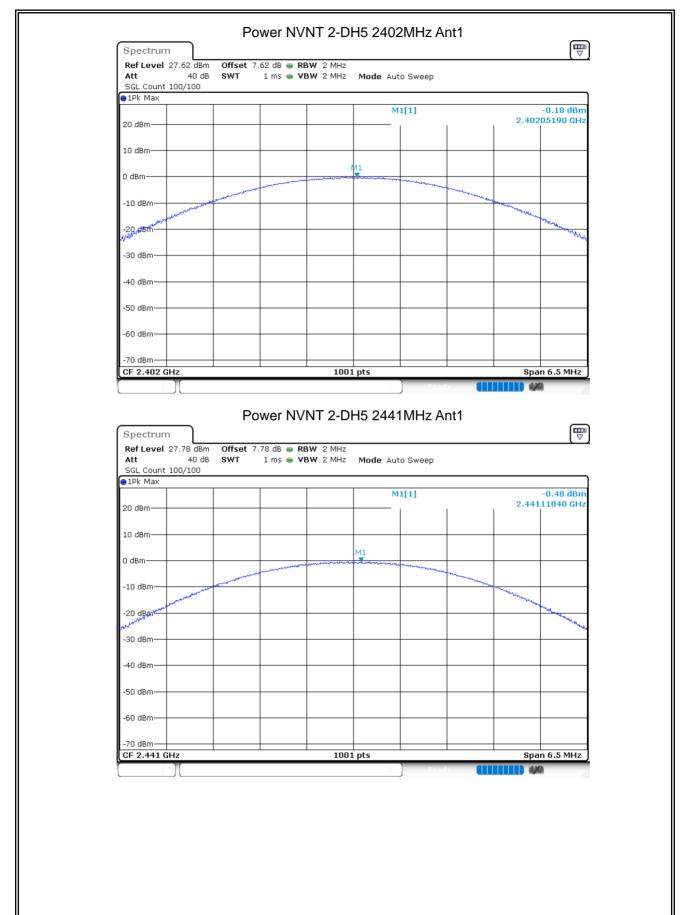


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10 dBm 0 dBm			M1[1	.]		
10 dBm			M1[1	1		
10 dBm						-2.00 dBn 75520 GH
0 dBm						
		M1				
-10 dBm						
-20 dBm						
-30 dBm						
-40 dBm						
-50 dBm						
-60 dBm						
-oo ubiii						
-70 dBm						
CF 2.441 GHz		1001	pts		Spa	n 5.0 MHz
Spectrum Ref Level 27.60 dB Att 40 d SGL Count 100/100	m Offset 7.60 dB	NVNT 1-DH • RBW 2 MHz • VBW 2 MHz				
Ref Level 27.60 dB Att 40 d	m Offset 7.60 dB	RBW 2 MHz		weep		
Ref Level 27.60 dB Att 40 d SGL Count 100/100	m Offset 7.60 dB	RBW 2 MHz	Mode Auto S	weep		-2.29 dBn
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max 20 dBm 20 dBm	m Offset 7.60 dB	RBW 2 MHz	Mode Auto S	weep		-2.29 dBn
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max	m Offset 7.60 dB	RBW 2 MHz	Mode Auto S	weep		-2.29 dBn
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max 20 dBm 20 dBm	m Offset 7.60 dB	RBW 2 MHz	Mode Auto S	weep		-2.29 dBn
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max 20 dBm 10 dBm 0 dBm	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBn
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max 20 dBm 10 dBm	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBr
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max 20 dBm 10 dBm 0 dBm	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBn 98000 GH:
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBn
Ref Level 27.60 dB Att 40 d SGL Count 10k Max 20 dBm 10 dBm 10 dBm 0 dBm	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBn
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBr
Ref Level 27.60 dB Att 40 d SGL Count 100/100 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm - -20 dBm - -30 dBm -	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBr
Ref Level 27.60 dB Att 40 d SGL Count 100/100 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBi
Ref Level 27.60 dB Att 40 d SGL Count 100/100 IPk Max 20 dBm 10 dBm 0 -10 dBm - -20 dBm - -30 dBm - -40 dBm -	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBi
Ref Level 27.60 dB Att 40 d SGL Count 100/100 IPk Max 20 dBm 10 dBm 0 dBm -10 dBm - -20 dBm - -30 dBm -	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep		-2.29 dBr
Ref Level 27.60 dB Att 40 d SGL Count 100/100 IPk Max 20 dBm 10 dBm 0 -10 dBm - -20 dBm - -30 dBm - -40 dBm -	m Offset 7.60 dB	RBW 2 MHz VBW 2 MHz	Mode Auto S	weep	2.479	-2.29 dBr

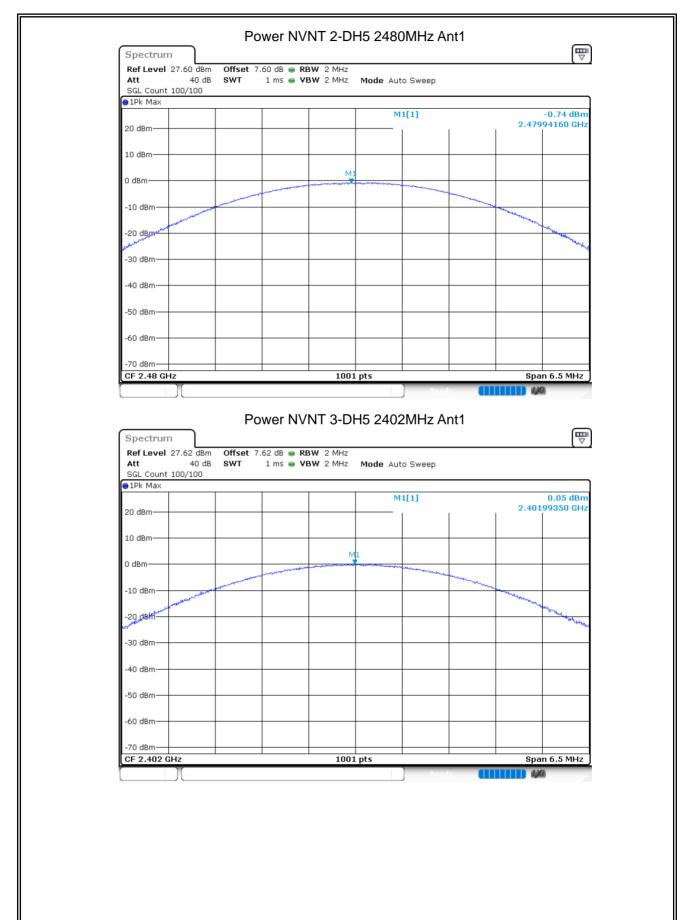






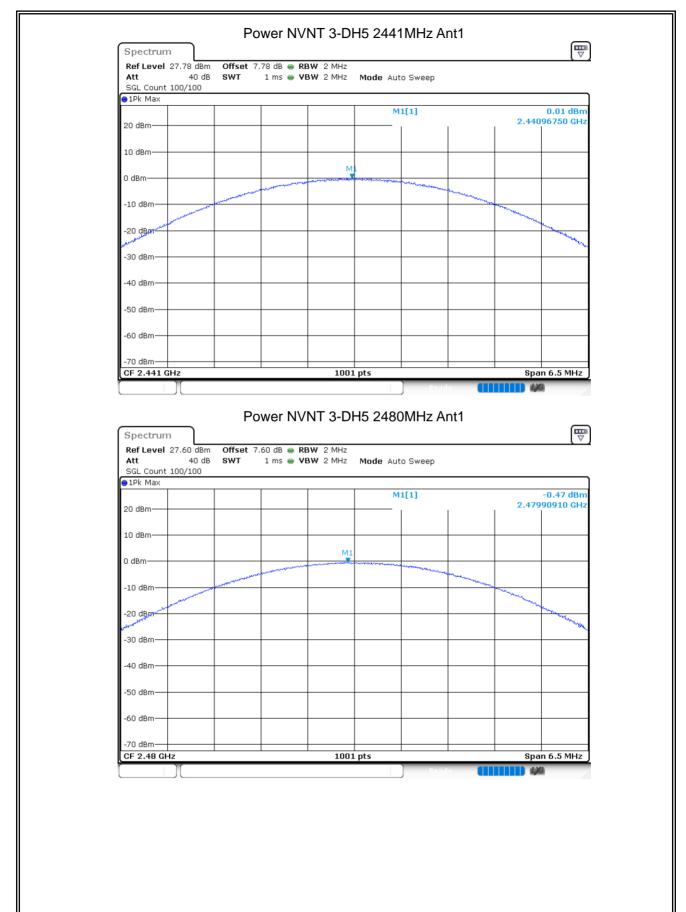












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8.3 OCCUPIED CHANNEL BANDWIDTH

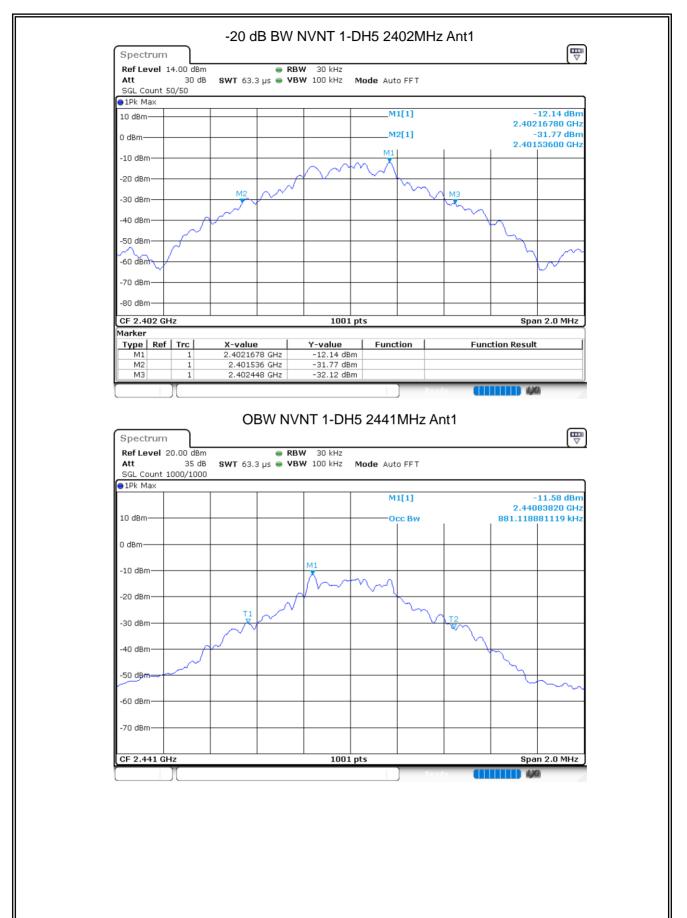
		Froqueney		99%	-20 dB	Limit -20 dB	
Condition	Mode	Frequency (MHz)	Antenna	OBW	Bandwidth	Bandwidth	Verdict
		(IVITIZ)		(MHz)	(MHz)	(MHz)	
NVNT	1-DH5	2402	Ant 1	0.8871	0.912	N/A	Pass
NVNT	1-DH5	2441	Ant 1	0.8811	0.958	N/A	Pass
NVNT	1-DH5	2480	Ant 1	0.8791	0.956	N/A	Pass
NVNT	2-DH5	2402	Ant 1	1.1828	1.284	N/A	Pass
NVNT	2-DH5	2441	Ant 1	1.1788	1.286	N/A	Pass
NVNT	2-DH5	2480	Ant 1	1.1788	1.284	N/A	Pass
NVNT	3-DH5	2402	Ant 1	1.1828	1.29	N/A	Pass
NVNT	3-DH5	2441	Ant 1	1.1808	1.292	N/A	Pass
NVNT	3-DH5	2480	Ant 1	1.1788	1.29	N/A	Pass

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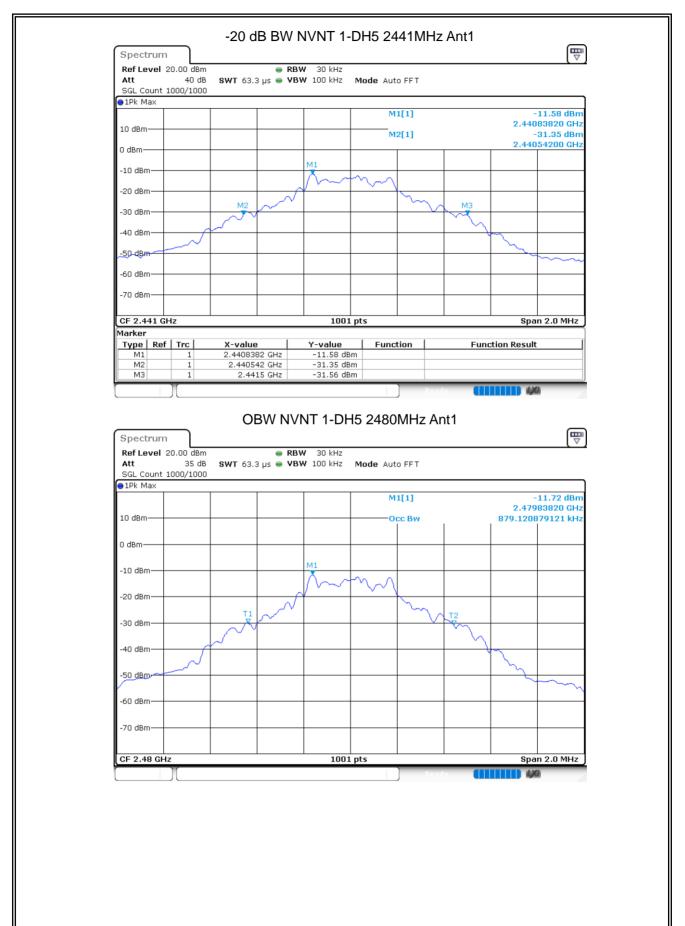






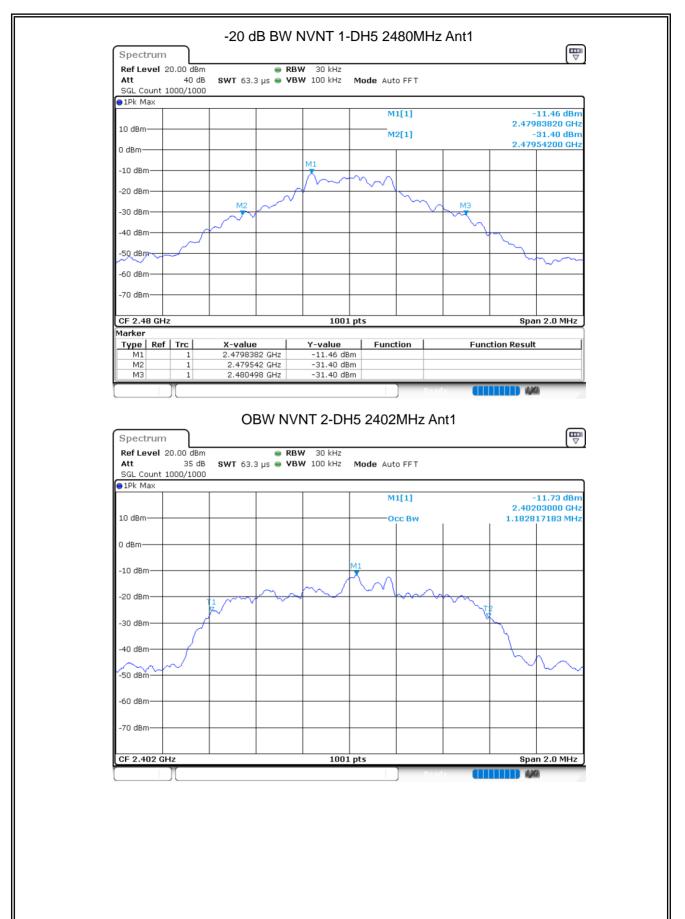






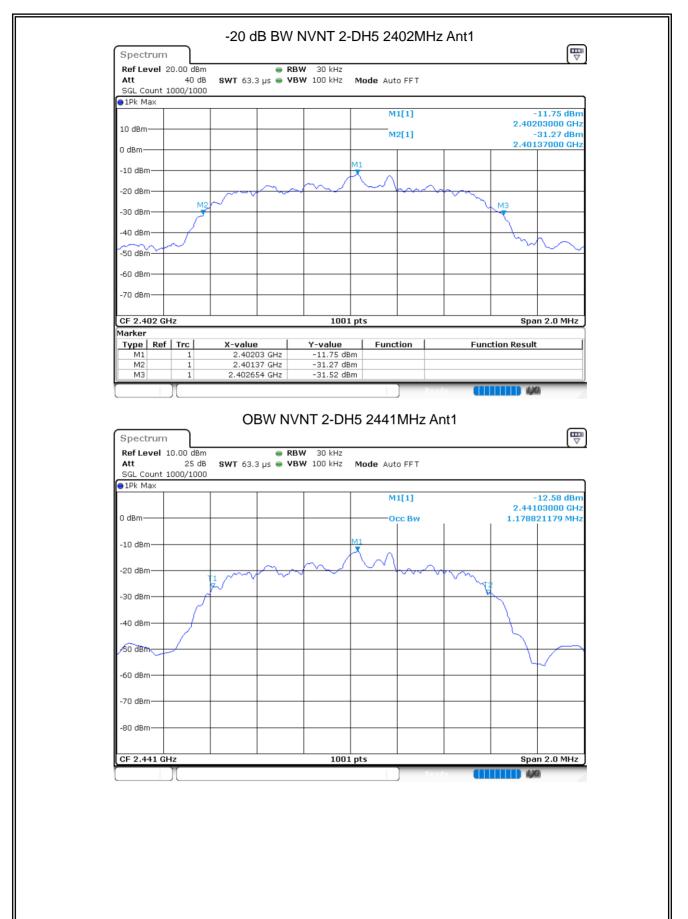






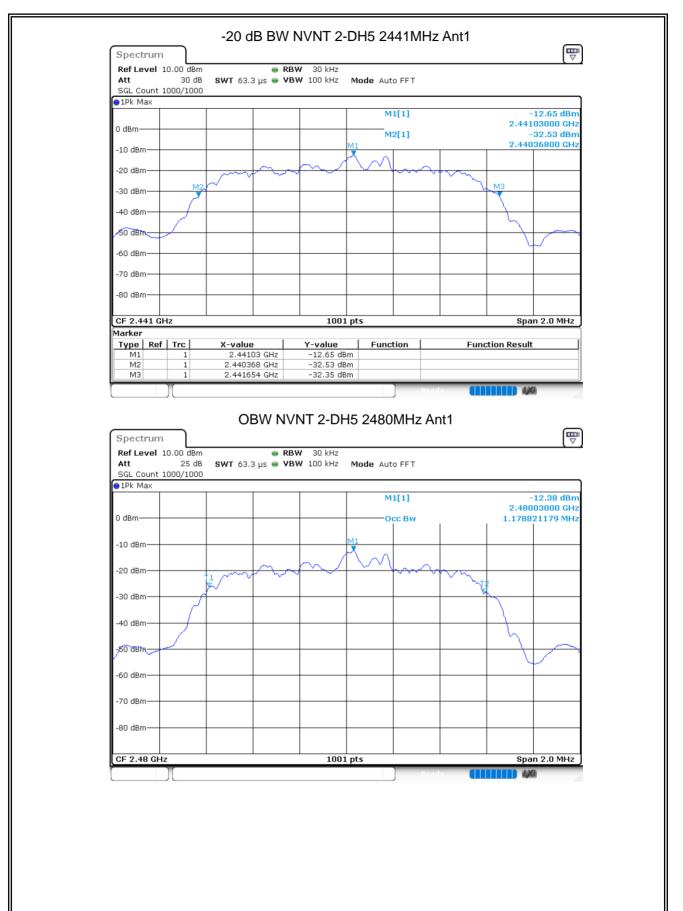






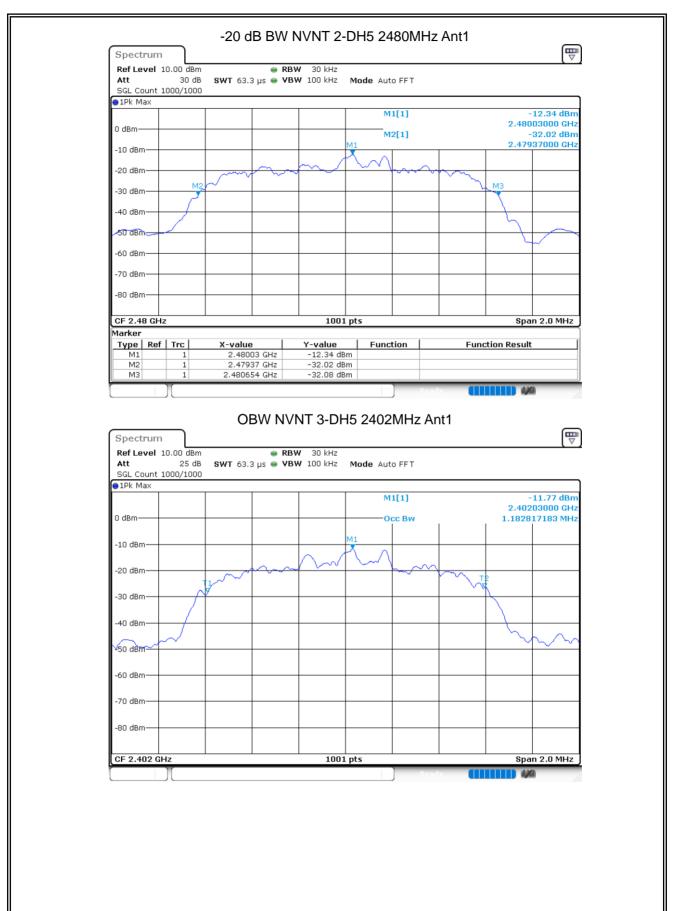






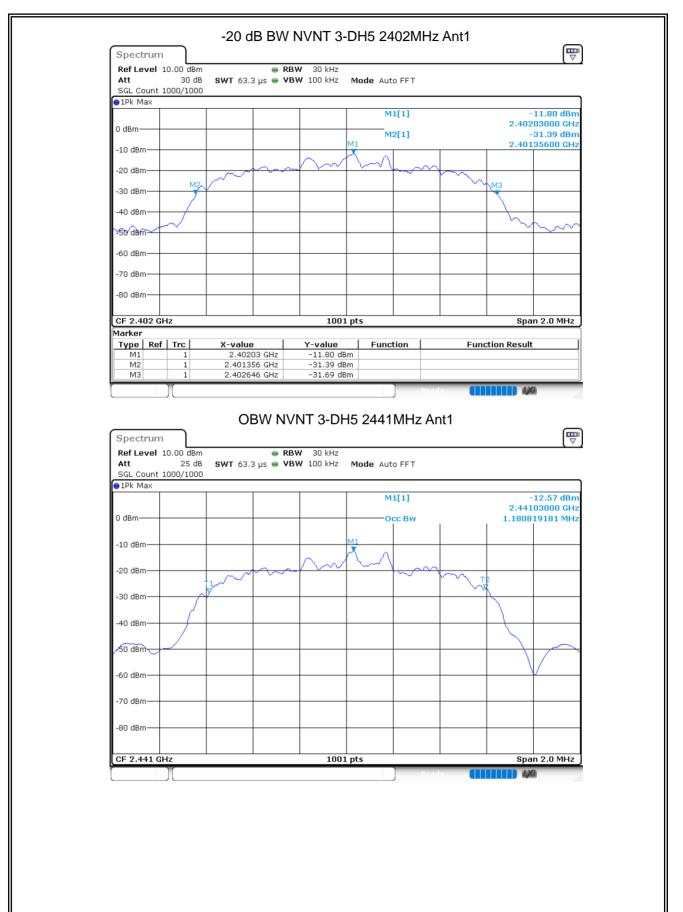






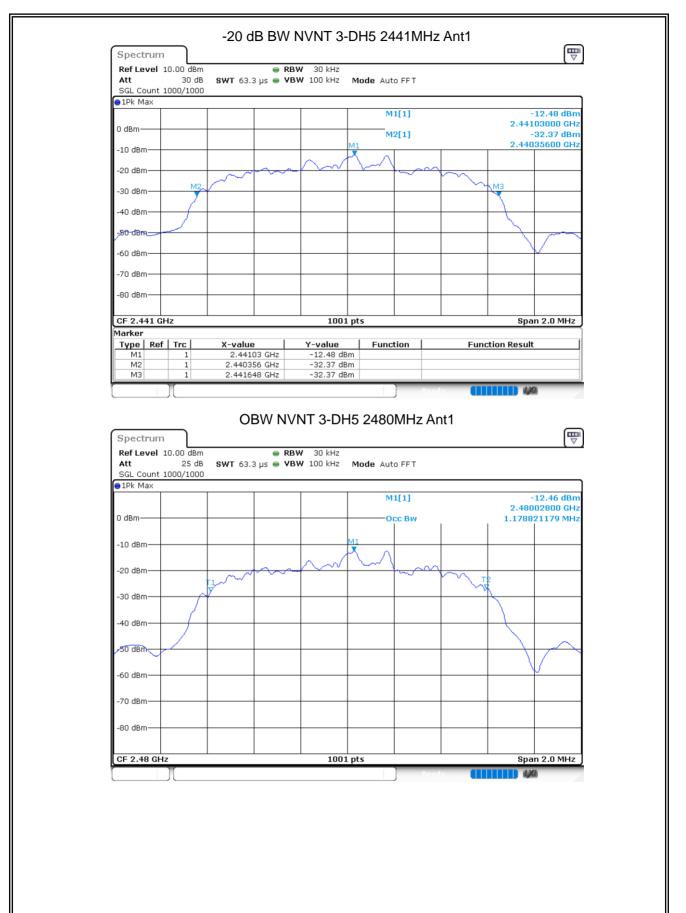
















Spectrum	ı]								[₩
Ref Level	10.00 de	Im	😑 R	BW 30 kHz					(·
Att	30 (µs 👄 🖌	'BW 100 kHz	Mode Auto	FFT			
SGL Count	1000/10	00							
●1Pk Max									
					M1	[1]			-12.29 dBm
0 dBm					<u> </u>				03000 GHz
						2[1]			-32.24 dBm)35600 GHz
-10 dBm					M1		1	2.479	aaooo GHz
				1 mm	$\sim \sim \sim$				
-20 dBm			\sim			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\sim		
-30 dBm	M	12					5	мз	
-30 UBIII									
-40 dBm	(
~50 dBm								$ \rightarrow $	$\vdash \frown$
								\	\sim
-60 dBm									
70 40-5									
-70 dBm									
-80 dBm									
00 0.0111									
CF 2.48 GH	7			1001	nts				n 2.0 MHz
Marker	-			1001	. pc3			эра	
	Trc	X-value	1	Y-value	Funct	ion	Fund	tion Result	•
M1 M1	1	2.4800	3 GHz	-12.29 dB				x.on Kosun	
M2	1	2.47935		-32.24 dB					
M3	1	2.48064	5 GHz	-32.11 dB	m				

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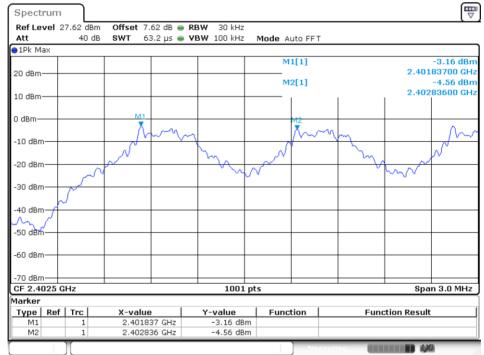
8.4 CARRIER		ICIES SEPARATION				
Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
•••••		(MHz)	(MHz)	(MHz)	(MHz)	
NVNT	1-DH5	2401.837	2402.836	0.999	0.912	Pass
NVNT	1-DH5	2440.837	2441.839	1.002	0.958	Pass
NVNT	1-DH5	2478.837	2479.839	1.002	0.956	Pass
NVNT	2-DH5	2402.029	2403.031	1.002	0.856	Pass
NVNT	2-DH5	2441.029	2442.031	1.002	0.857	Pass
NVNT	2-DH5	2479.029	2480.031	1.002	0.856	Pass
NVNT	3-DH5	2402.167	2403.169	1.002	0.86	Pass
NVNT	3-DH5	2441.029	2442.031	1.002	0.861	Pass
NVNT	3-DH5	2479.029	2480.031	1.002	0.86	Pass

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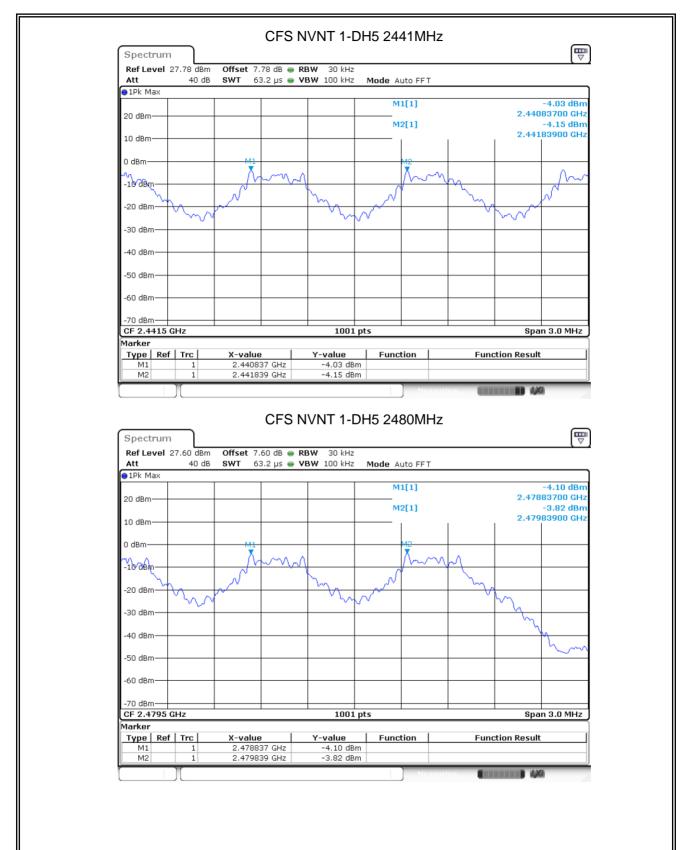
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CFS NVNT 1-DH5 2402MHz



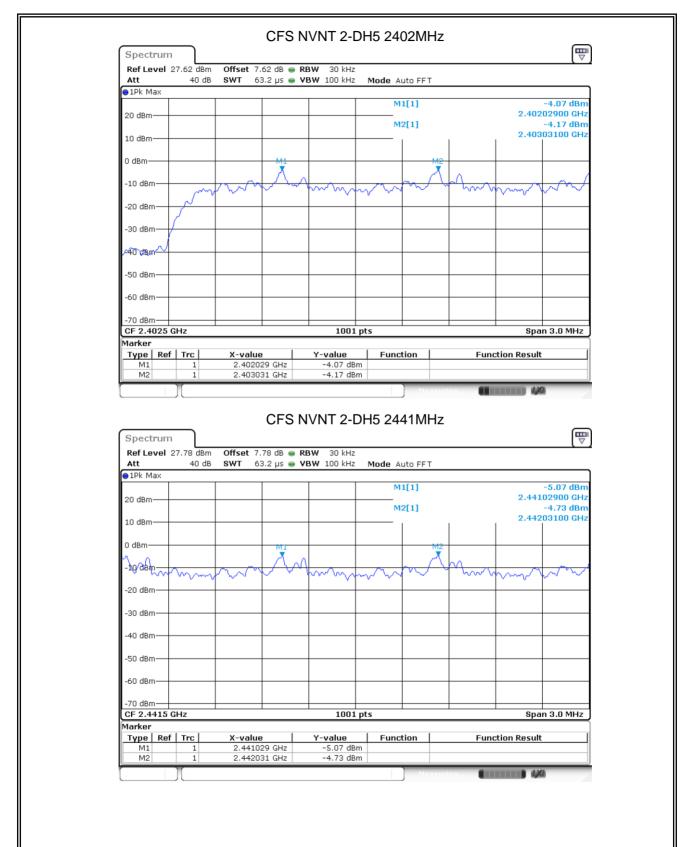






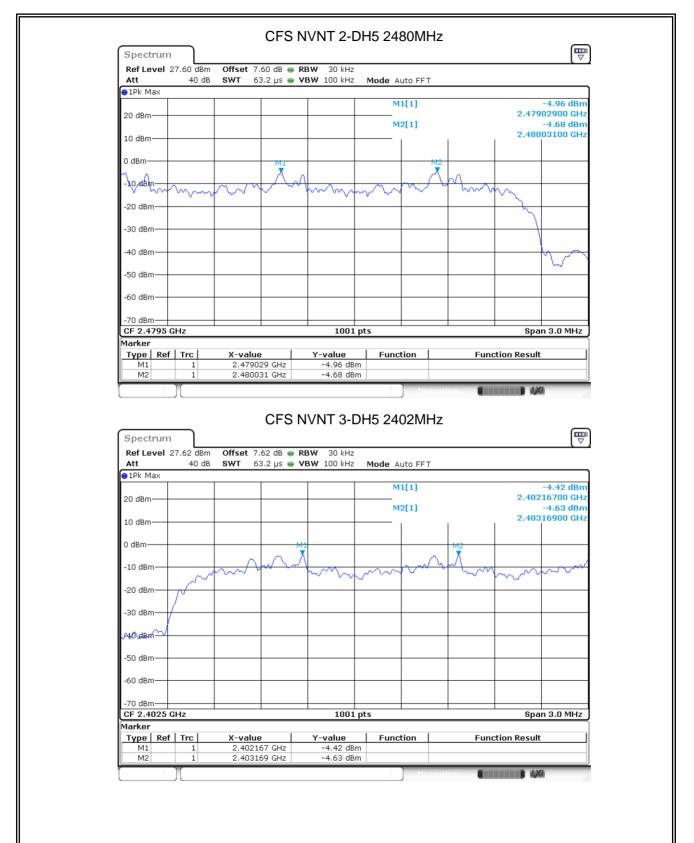






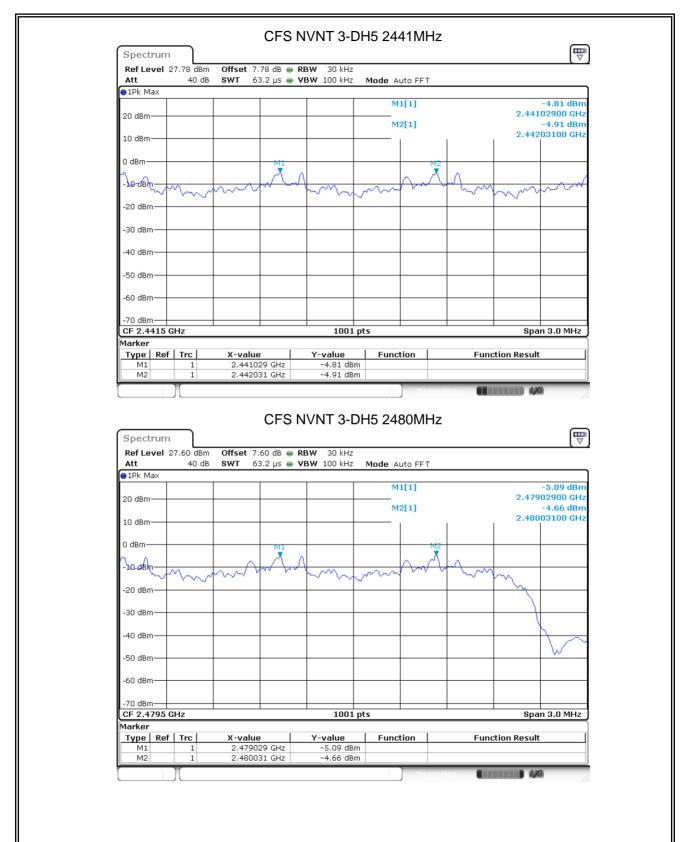
















		Cor	ndition	Mode	Hoppi	ng Num	ber	Limit	Ve	rdict		
		N	VNT	1-DH5		79		15	Pa	ass		
			H	opping N	lo. NVN	T 1-DH5	5 24(02MHz				
Spect	rum											
		7.62 dBn	1 Offset	7.62 dB 👄 F	RBW 100 kH	z						
Att		40 d8		1 ms 😑 🕻	/BW 300 kH	z Mode Au	uto Sw	/еер				
SGL Co		000/500)									
TER M						M	1[1]				-2.47 0	B
20 dBm	_					<u>+ </u>				2.4	018370	
10 dBm						M	2[1]			2.4	-3.97 c 800765	
0 dBm-	0.0.0.01		нькралар	0.000000000	anastrata	LAADDADAA	th Mr.	0.000 h n A H	Ubal		M	2
-10 5Bn	JANA	WINN	((UUUUU	UARARI	44,01014	144444444		ARADATAT	UNIAN	DAAAA	1400000	
1 3444	WW	WWWW	VAAAAAAAA	TRANCICKA.	AAnddoore	Joshhaikh	N Y Y Y Y	1. AL AL AND A	WYW	VUVUVU	VUNUU	
-20 dBn	n			-						<u>• • • • • • • • •</u>	104010	
-30 dBn	n										_	Ļ
-40 dBn												Ļ
-#0 aBn												hu
-50 dBn	n				+						+	
-60 dBn												
-00 001												
-70 dBn										01-		
Start 2 Marker		z			100	1 pts				Stop	2.4835 G	H
Туре		Trc	X-val	ue	Y-value	Funct	tion	1	Fund	ion Resu	lt	
M1		1		L837 GHz	-2.47 d	Bm						
M2		1	2.4800)765 GHz	-3.97 d	Bm						
								Ready	an		XI	

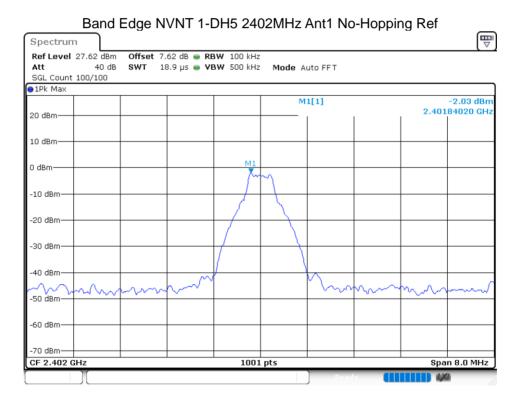
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8.6 BAND EDGE

8.6 BANDED	GE						
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	No-Hopping	-39.5	-20	Pass
NVNT	1-DH5	2402	Ant 1	Hopping	-39.03	-20	Pass
NVNT	1-DH5	2480	Ant 1	No-Hopping	-40.22	-20	Pass
NVNT	1-DH5	2480	Ant 1	Hopping	-39.29	-20	Pass
NVNT	2-DH5	2402	Ant 1	No-Hopping	-38.98	-20	Pass
NVNT	2-DH5	2402	Ant 1	Hopping	-38.37	-20	Pass
NVNT	2-DH5	2480	Ant 1	No-Hopping	-40.32	-20	Pass
NVNT	2-DH5	2480	Ant 1	Hopping	-38.54	-20	Pass
NVNT	3-DH5	2402	Ant 1	No-Hopping	-38.94	-20	Pass
NVNT	3-DH5	2402	Ant 1	Hopping	-38.65	-20	Pass
NVNT	3-DH5	2480	Ant 1	No-Hopping	-39.71	-20	Pass
NVNT	3-DH5	2480	Ant 1	Hopping	-39.95	-20	Pass

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Att SGL Count 10	40 dB DO/100	SWT 22	27.5 µs 👄 🕻	VBW 500 kH:	z Mode /	Auto FFT			
●1Pk Max					М	1[1]			-2.67 dBm
20 dBm					м	2[1]			215000 GHz -46.78 dBm
10 dBm							1	2.400	M1
-10 dBm									Ĭ
00 40									
-30 dBm	1 -22.031	dBm							
-40 dBm				M4					
50 dBm	www.yewe	malupadraa	www.hubble	when have have the	www.whenland.org	www.hw	unterter work	M3 parthe Tenneral	when the frees
-60 dBm									
-70 dBm									
Start 2.306 (Marker	GHz			1001	pts	•	•	Stop	2.406 GHz
Type Ref		X-value		Y-value	Func	tion	Fun	ction Resul	t
M1 M2	1	2	15 GHz 2.4 GHz	-2.67 dB -46.78 dB	m				
M3 M4	1		39 GHz 23 GHz	-46.27 dB -41.53 dB					
Spectrum Ref Level 2 Att	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	VNT 1-D BW 100 kHz BW 300 kHz			Ant1 Ho	pping R	ef (T
Spectrum Ref Level 2	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho	pping R	
Spectrum Ref Level 2 Att SGL Count 8	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A		Ant1 Ho		
Spectrum Ref Level 2 Att SGL Count 8 P1Pk Max	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho		-2.16 dBm
Spectrum Ref Level 2' Att SGL Count 80 1Pk Max 20 dBm 10 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho		-2.16 dBm
Spectrum Ref Level 2 Att SGL Count 80 PIPk Max 20 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho		-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 1Pk Max 20 dBm 10 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT			-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 1Pk Max 20 dBm 10 dBm 0 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT			-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 1Pk Max 20 dBm 10 dBm -10 dBm -10 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho		-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 1Pk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho		-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 8I 1Pk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT			-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 1Pk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho		-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT			-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	7.62 dBm 40 dB	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho		-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	7.62 dBm 40 dB 500/8000	Offset 7.	.62 dB 👄 R	BW 100 kHz	Mode A	uto FFT	Ant1 Ho	2.403	-2.16 dBm 583620 GHz
Spectrum Ref Level 2' Att SGL Count 80 P1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm	7.62 dBm 40 dB 500/8000	Offset 7.	.62 dB 👄 R	BW 100 kHz BW 300 kHz	Mode A	uto FFT		2.403	-2.16 dBm 583620 GHz

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Ref Level Att SGL Count	40 dB			(BW 100 kHz /BW 300 kHz		uto FFT			
●1Pk Max					M1	L[1]			-2.23 dBm
20 dBm						2[1]			85000 GHz 44.93 dBm
10 dBm							I		00000 GHz
0 dBm									M hhai
-10 dBm									M
-20 dBm	D1 -22.165	dBm							10000
-30 dBm									
-40 dBm	واسريد والالانبانيون	ويوالعنان والمعلمان	M4	tey ward apply a	بسريوناته والمعام والمعالمة	Laurellow no	mounter manufacture	13 Total advancements	M2
-50 dBm		and the second		· •				a a dadina a c	1. V. 1900
-60 dBm									
-70 dBm									
Start 2.306 Marker				1001	pts			stop	2.406 GHz
Type Ret M1	F Trc 1	X-value 2.405	e	Y-value -2.23 dBm	Funct	ion	Fund	tion Result	
M2 M3	1		2.4 GHz 187 GHz	-44.93 dBn -44.94 dBn					
M4 Spectrum Ref Level Att SGL Count	1 27.60 dBm 40 dB	Edge N	.60 dB 👄 RE	-41.20 dBn	0MHz A		do-Hoppin	ng Ref	
Spectrum Ref Level Att	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T	o-Hoppin	ng Ref	
Spectrum Ref Level Att SGL Count	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A		idv () o-Hoppin		-2.70 dBm 184020 GHz
Spectrum Ref Level Att SGL Count ● 1Pk Max	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T	o-Hoppin		-2.70 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T	idv III		-2.70 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T	lo-Hoppin		-2.70 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T	ide Hoppin		-2.70 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T	lo-Hoppin		-2.70 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T	ide Hoppin		-2.70 dBm
Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T			-2.70 dBm
Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T			-2.70 dBm 84020 GHz
Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T			-2.70 dBm
Spectrum Ref Level Att SGL Count • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T			-2.70 dBm 84020 GHz
Spectrum Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	Band 27.60 dBm 40 dB	Edge N	IVNT 1-I	DH5 248	OMHZ A	ito FF T			-2.70 dBm 84020 GHz
Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Band 27.60 dBm 40 dB 100/100	Edge N	IVNT 1-I	DH5 248	OMHz A	ito FF T		2.479	-2.70 dBm 84020 GHz
Spectrum Ref Level Att SGL Count • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	Band 27.60 dBm 40 dB 100/100	Edge N	IVNT 1-I	DH5 248	OMHz A	ito FF T		2.479	-2.70 dBm 84020 GHz
Spectrum Ref Level Att SGL Count IPK Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	Band 27.60 dBm 40 dB 100/100	Edge N	IVNT 1-I	DH5 248	OMHz A	ito FF T		2.479	-2.70 dBm 84020 GHz

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●1Pk Max			M1[1]			2.70 dBm
20 dBm			milil			5000 GHz
10 dBm			M2[1]			5.70 dBm 0000 GHz
o dam						
-10 dBm						
-20/dBm D1 -22.697 d	Bm					
-30 dBm						
-40 dBmr2 M4	and Mar Mary Marine Marine	When mortend the shere is	delah bara dirih periode	nonalah awa kultar	A francistary	r antimerpete
-50 dBm				and the date of th		
-60 dBm						
-70 dBm						
Start 2.476 GHz Marker		1001 pts			Stop 2	576 GHz
Type Ref Trc	X-value		Function	Functio	on Result	
M1 1 M2 1	2.47985 GHz 2.4835 GHz	-2.70 dBm -45.70 dBm				
1 1 I I I I I I I I I I I I I I I I I I		-47.20 dBm				
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm	2.5 GHz 2.4876 GHz e(Hopping) N Offset 7.60 dB • 1	-42.92 dBm		Ant1 Hopp	ing Re	f (
M3 1 M4 1 Band Edge Spectrum	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm		Ant1 Hopp	ing Re	
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm		Ant1 Hopp		
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 PIPk Max	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 ● 1Pk Max 20 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 • 1Pk Max 20 dBm 10 dBm 0 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att SGL Count 8000/8000 • 1Pk Max 20 dBm 10 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 • 1Pk Max 20 dBm 10 dBm 0 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 ● 1Pk Max 20 dBm 10 dBm -10 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp		₩ 2.70 dBm
M3 1 M4 1 Band Edge Spectrum Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT			₩ 2.70 dBm
M3 1 M4 1 M4 1 Ref Level 27.60 dBm Att 40 dB SGL Count 8000/8000 ● 1Pk Max 20 dBm 10 dBm -10 dBm -30 dBm -40 dBm -50 dBm -60 dBm	2.4876 GHz e(Hopping) N offset 7.60 dB • 1	-42.92 dBm	de Auto FFT	Ant1 Hopp	2.4798	₩ 2.70 dBm



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-3.65 dBn 2.47815000 GHz -43.53 dBm 2.48350000 GHz

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Stop 2.576 GHz

TEK	JL		ACCREDITED Certificate #4298.0)	Report No.: STR20
Ba	nd Edg	ge(Hopping) NV	NT 1-DH5 2	480MHz A	nt1 Hopping Emission
Spectro	um				
Att	el 27.60 d 40 nt 1200/1:	dB SWT 227.5 µs	• RBW 100 kHz • VBW 300 kHz	Mode Auto FF	т
⊖1Pk Ma	<				0.65
20 dBm-	_			M1[1]	-3.65 (2.47815000
10 dBm—	_			M2[1]	-43.53 2.48350000
ð¹двт—					
-10 dBm-					
-30 cBm-	D1 -22.	697 dBm			
-40 dBn	4	MB			
-40 dBm	hunnamag	and the partition of the	al and which which and a second	Wenterschartung	windowed where the mound
-60 dBm-					
-70 dBm- Start 2.4	476 GHz		1001 pt:	5	Stop 2.576 0
Marker					•
	Ref Trc	X-value	Y-value	Function	Function Result
M1	1	2.47815 GHz	-3.65 dBm		
M2 M3	1	2.4835 GHz 2.5 GHz	-43.53 dBm -43.76 dBm		
M3 M4	1	2.5 GHz 2.4839 GHz	-43.76 dBm		
		2,7007 GH2	12100 0000		Ready 🚺

