



RADIO TEST REPORT FCC ID: 2BCW8DJ10

Certificate #4298.01

Product:Desert Fox Golf SpeakerTrade Mark:N/AModel No.:DJ-10Family Model:N/AReport No.:S23091402601001Issue Date:Oct 11, 2023

Prepared for

Desert Fox Golf

40 W. Baseline Rd. Suite 118 Mesa AZ 85210

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



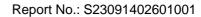


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1 TEST RESULT CERTIFICATION

Applicant's name:	Desert Fox Golf
Address:	40 W. Baseline Rd. Suite 118 Mesa AZ 85210
Manufacturer's Name::	Shen Zhen Kingdom Technology Co.,LTD
Address:	No.3,NanTong Blvd,Bao Long Industrial Area Long Gang District,ShenZhen,China
Product description	
Product name:	Desert Fox Golf Speaker
Model and/or type reference:	DJ-10
Family Model:	N/A
TestSample Number	S230914026001

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 Complex

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.

Prepared By :	Gavan Zhang Gavan Zhang(Project Engineer) Aawn Cheng
	Agin Cheng
Reviewed By	
	Aaron Cheng (Supervisor)
Approved By :	Alex Li
	Alex Li(Manager)





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&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, 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&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei
		Community, Hangcheng Street, Baoan District, Shenzhen, Guangdong,
		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, PSD	±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
10	Occupied bandwidth	±4.7%





4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	Desert Fox Golf Speaker	
Trade Mark	N/A	
FCC ID	2BCW8DJ10	
Model No.	DJ-10	
Family Model	N/A	
Model Difference	N/A	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8-DPSK	
Number of Channels	79 Channels	
Antenna Type	PCB Antenna	
Antenna Gain	2.81 dBi	
Adapter	N/A	
Battery	DC 3.7V, 2400mAh	
Power supply	DC 3.7V from battery or DC 5V from Charging Port.	
Hardware version:	N/A	
Firmware version:	N/A	
Software version:	N/A	

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.

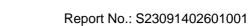




Revision History

Report No.	Version	Description	Issued Date
S23091402601001	Rev.01	Initial issue of report	Oct 11, 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.

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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: AQ according Que ducted Environment to test ad up day proving output according		

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 continuous			

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





6 SETUP OF EQUIPMENT UNDER TEST 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
For AC Conducted Emission Mode AE-2 Remote control	
For Radiated Test Cases	
EUT	
For Conducted Test Cases	
Measurement Instrument EUT	
Note: 1. The temporary antenna connector is soldered on the PCB board in order to p and this temporary antenna connector is listed in the equipment list. 2. EUT built-in battery-powered, the battery is fully-charged.	erform conducted tests





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
E-1	Desert Fox Golf Speaker	DJ-10	N/A	EUT
AE-1	Adapter	N/A	N/A	Peripherals
AE-2	Remote control	N/A	N/A	Peripherals

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

Notes:

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

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	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	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.03.27	2024.03.26	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2023.03.27	2024.03.26	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.08	2023.11.07	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.08	2023.11.07	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.11.08	2023.11.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	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	2022.11.08	2023.11.07	1 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

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





AC Co	AC Conduction Test equipment								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period		
1	Test Receiver	R&S	ESCI	101160	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	2023.05.06	2026.05.05	3 year		
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year		
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year		
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year		

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

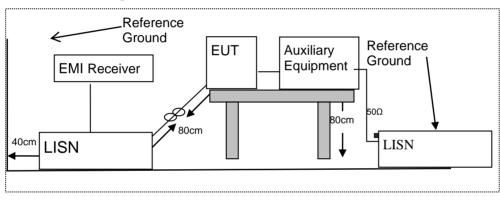
	Conducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average		
0.15-0.5	66-56*	56-46*		
0.5-5.0	56	46		
5.0-30.0	60	50		

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

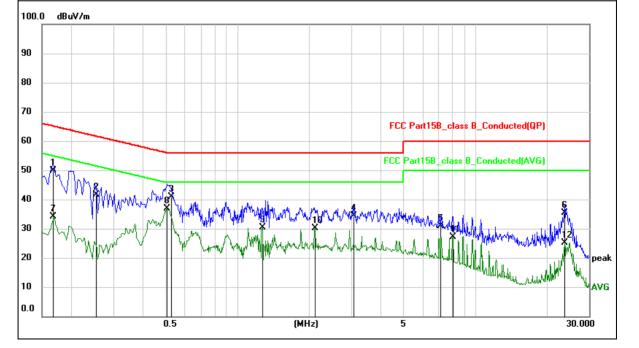
EUT:	Desert Fox Golf Speaker	Model Name :	DJ-10
Temperature:	22.1 ℃	Relative Humidity:	53%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1680	39.96	9.84	49.80	65.06	-15.26	QP
0.2535	31.69	9.83	41.52	61.64	-20.12	QP
0.5279	31.09	9.86	40.95	56.00	-15.05	QP
3.0885	24.49	9.91	34.40	56.00	-21.60	QP
7.1655	21.03	9.97	31.00	60.00	-29.00	QP
23.6445	25.39	10.11	35.50	60.00	-24.50	QP
0.1680	24.19	9.84	34.03	55.06	-21.03	AVG
0.5055	27.03	9.86	36.89	46.00	-9.11	AVG
1.2703	20.43	9.89	30.32	46.00	-15.68	AVG
2.1118	20.20	9.90	30.10	46.00	-15.90	AVG
8.0295	17.24	9.97	27.21	50.00	-22.79	AVG
23.6445	15.00	10.11	25.11	50.00	-24.89	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



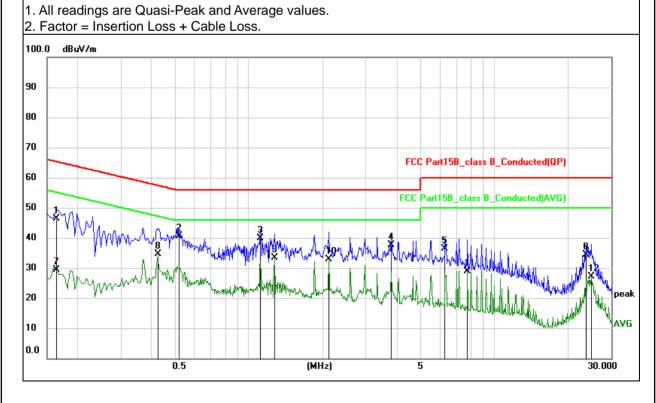




EUT:	Desert Fox Golf Speaker			Model Name :		DJ-10	
Temperature:					ity:	53%	
Pressure:						N	
Test Voltage : DC 5V from Adapter AC 120V/60Hz			120V/60Hz	Test Mode:		Mode 1	
Frequency	Reading Level	Correct Factor	Measure-ment	t Limits	Ma	rgin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(d	IB)	Remark
0.1635	36.58	9.84	46.42	65.28	-1	8.86	QP
0 5400	00.00	0.00	40.00	50.00		F 00	

0.1635	36.58	9.84	46.42	65.28	-18.86	QP
0.5190	30.82	9.86	40.68	56.00	-15.32	QP
1.1129	30.11	9.88	39.99	56.00	-16.01	QP
3.8085	27.67	9.93	37.60	56.00	-18.40	QP
6.2970	26.54	9.96	36.50	60.00	-23.50	QP
23.7255	24.34	10.11	34.45	60.00	-25.55	QP
0.1623	19.46	9.84	29.30	55.35	-26.05	AVG
0.4245	24.75	9.85	34.60	47.36	-12.76	AVG
1.2703	23.38	9.89	33.27	46.00	-12.73	AVG
2.1164	23.04	9.90	32.94	46.00	-13.06	AVG
7.7775	18.99	9.97	28.96	50.00	-21.04	AVG
24.8325	17.01	10.13	27.14	50.00	-22.86	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

According to 1 CC Fait 13.20	According to FCC Fait 15.205, 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	0.009~0.490 2400/F(KHz)		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)
i requency(iiii iz)	PEAK	AVERAGE
Above 1000	74	54

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

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



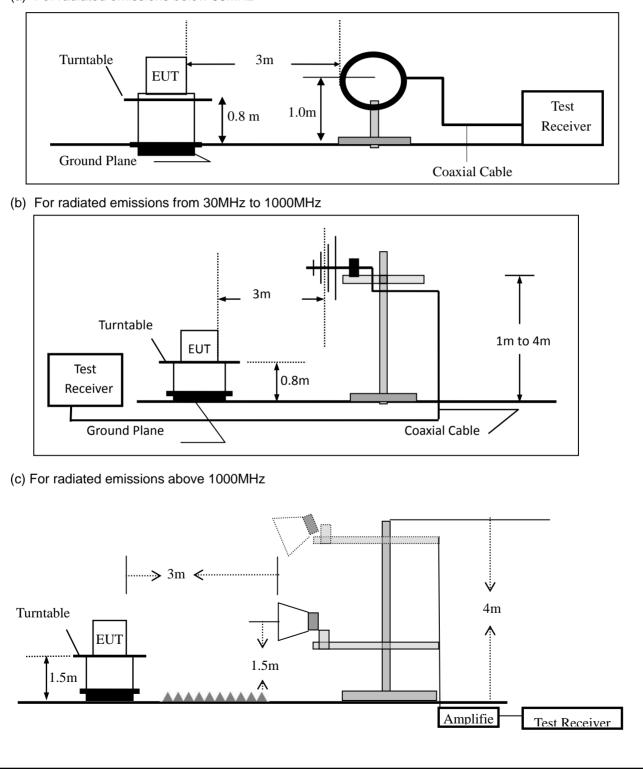


7.2.3 Measuring Instruments

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 felle wing opeen an analyzer bearing	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

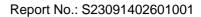
Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower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

7.2.6 Test Results

Spurious Em	ission below 30MHz (9KHz to 3	30MHz)	
EUT:	Desert Fox Golf Speaker	Model No.:	DJ-10
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

Freq.	Ant.Pol.	Emission L	_evel(dBuV/m)	Limit 3	m(dBuV/m)	Ove	r(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.





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

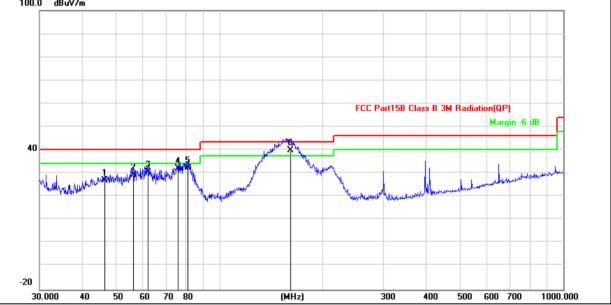
EUT:	Desert Fox Golf Speaker	Model Name :	DJ-10
Temperature:	25.4 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Mode:	8-DPSK CH78
Test Voltage :	DC 3.7V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	46.5030	35.12	-8.03	27.09	40.00	-12.91	QP
V	56.1974	37.99	-8.57	29.42	40.00	-10.58	QP
V	61.9951	39.70	-9.25	30.45	40.00	-9.55	QP
V	75.9771	43.68	-11.64	32.04	40.00	-7.96	QP
V	80.9274	44.49	-12.24	32.25	40.00	-7.75	QP
V	160.9088	46.96	-7.16	39.80	43.50	-3.70	QP

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit









Polar	Frequenc	у		eter ding		Factor	E	Emissio Level	on	Lin	nits	Mar	rgin	Re	emark
(H/V)	(MHz)		(dB	BuV)		(dB)	(dBuV/n	n)	(dBı	ıV/m)	(d	B)		, include the
Н	81.211	6	4	4.48		-12.2	2	32.2	6	4	0.00	-7	7.74		QP
Н	164.330	1	3	8.17		-7.48	;	30.6	9	4	3.50	-12	2.81		QP
Н	186.440	8	3	9.76		-10.22	2	29.5	4	4	3.50	-1:	3.96		QP
Н	205.675	0	39.49			-11.0	5	28.4	4	4	3.50	-1	5.06		QP
Н	300.367	2	4	3.89		-7.97	,	35.9	2	4	6.00	-1(80.0		QP
Н	408.946	0	3	8.81		-5.47	·	33.3	4	4	6.00	-12	2.66		QP
-								F	FCC Pa	rt15B Clas	s B 3M Rai		2) gin -6 dB		
40 —									3		6				
W-	unan mbaanan debarange	ithhly	hurrer all and the second		hermanya	prosphillion has	18-1-5	and the state of t	rspelt	Muldum	× Marrieler	herenter	Andrean	,	
-20															



UT:	Dese	rt Fox Go	lf Speaker	Model	No.:		DJ-′	10		
emperature:	20 ℃			Relativ	ve Humidit	y:	48%)		
est Mode:	Mode	2/Mode3	/Mode4	Test B	Sy:		Gav	an Zhang		
Il the modulat	ion modes	have be	en tested, a	and the	worst resul	lt was	repo	ort as belo	ow:	
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Lim	iits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ\	V/m)	(dB)		
		Lo	w Channel (2	402 MHz)	3Mbps(8-DP	SK)Al	bove '	1G		
4804	68.29	5.21	35.59	44.30	64.79	74.0	00	-9.21	Pk	Vertical
4804	46.62	5.21	35.59	44.30	43.12 54.00 -10.88		AV	Vertical		
7206	69.45	6.48	36.27	44.60	67.60	74.0	00	-6.40	Pk	Vertical
7206	46.79	6.48	36.27	44.60	44.94	54.0	00	-9.06	AV	Vertical
4804	69.75	5.21	35.55	44.30	66.21	21 74.00 -7.79 Pk		Horizontal		
4804	46.47	5.21	35.55	44.30	42.93	42.93 54.00 -11.07		AV	Horizontal	
7206	69.22	6.48	36.27	44.52	52 67.45 74.00 -6.55		Pk	Horizontal		
7206	49.94	6.48	36.27	44.52	48.17	54.0	00	-5.83	AV	Horizontal
		M	id Channel (24	141 MHz)	3Mbps(8-DP	SK)At	bove 1	IG		
4882	68.97	5.21	35.66	44.20	65.64	74.0	00	-8.36	Pk	Vertical
4882	50.6	5.21	35.66	44.20	47.27	54.0	00	-6.73	AV	Vertical
7323	69.5	7.10	36.50	44.43	68.67	74.0	00	-5.33	Pk	Vertical
7323	49.35	7.10	36.50	44.43	48.52	54.0	00	-5.48	AV	Vertical
4882	69.36	5.21	35.66	44.20	66.03	74.0	00	-7.97	Pk	Horizontal
4882	50.48	5.21	35.66	44.20	47.15	54.0	00	-6.85	AV	Horizontal
7323	70.52	7.10	36.50	44.43	69.69	74.0	00	-4.31	Pk	Horizontal
7323	49.78	7.10	36.50	44.43	48.95	54.0	00	-5.05	AV	Horizontal
		Hię	gh Channel (2	480 MHz)	3Mbps(8-DP	SK)- A	bove	1G		
4960	68.22	5.21	35.52	44.21	64.74	74.0	00	-9.26	Pk	Vertical
4960	48.39	5.21	35.52	44.21	44.91	54.0	00	-9.09	AV	Vertical
7440	69.63	7.10	36.53	44.60	68.66	74.0	00	-5.34	Pk	Vertical
7440	49.52	7.10	36.53	44.60	48.55	54.0	00	-5.45	AV	Vertical
4960	68.26	5.21	35.52	44.21	64.78	74.0	00	-9.22	Pk	Horizontal
4960	47.05	5.21	35.52	44.21	43.57	54.0	00	-10.43	AV	Horizontal
7440	70.66	7.10	36.53	44.60	69.69	74.0	00	-4.31	Pk	Horizontal
7440	45.96	7.10	36.53	44.60	44.99	54.0	00	-9.01	AV	Horizontal

Note:

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

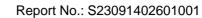




Report No.: S23091402601001

UT:	Desert Fox	Golf Sp	eaker	Model	No.:	[DJ-10				
Femperature	: 20 ℃			Relativ	e Humidit	y: 4	48%				
Test Mode:	Mode2/ M	ode4		Test B	y:	(Gavan Zhan	g			
All the modu	lation mode	s have b	een testec	d, and the	worst res	ult was	report as b	elow:			
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limit	ts Margin	Detector	Comment		
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV	/m) (dB)	Туре			
			ЗN	lbps(8-DPS	K)-Non-hopp	ing					
2310.00	70.64	2.97	27.80	43.80	57.61	74	-16.39	Pk	Horizontal		
2310.00	49.28	2.97	27.80	43.80	36.25	54	-17.75	AV	Horizontal		
2310.00	69.93	2.97	27.80	43.80	56.90	74	-17.10	Pk	Vertical		
2310.00	48.14	2.97	27.80	43.80	35.11	54	-18.89	AV	Vertical		
2390.00	70.87	3.14	27.21	43.80	57.42	74	-16.58	Pk	Vertical		
2390.00	50.37	3.14	27.21	43.80	36.92	54	-17.08	AV	Vertical		
2390.00	68.48	3.14	27.21	43.80	55.03	74	-18.97	Pk	Horizontal		
2390.00	45.13	3.14	27.21	43.80	31.68	54	-22.32	AV	Horizontal		
2483.50	68.29	3.58	27.70	44.00	55.57	74	-18.43	Pk	Vertical		
2483.50	45.47	3.58	27.70	44.00	32.75	54	-21.25	AV	Vertical		
2483.50	70.03	3.58	27.70	44.00	57.31	74	-16.69	Pk	Horizontal		
2483.50	46.05	3.58	27.70	44.00	33.33	54	-20.67	AV	Horizontal		
			;	3Mbps(8-DI	SK)-hopping	9					
2310.00	70.59	2.97	27.80	43.80	57.56	74	-16.44	Pk	Horizontal		
2310.00	48.56	2.97	27.80	43.80	35.53	54	-18.47	AV	Horizontal		
2310.00	68.80	2.97	27.80	43.80	55.77	74	-18.23	Pk	Vertical		
2310.00	49.32	2.97	27.80	43.80	36.29	54	-17.71	AV	Vertical		
2390.00	68.08	3.14	27.21	43.80	54.63	74	-19.37	Pk	Vertical		
2390.00	48.75	3.14	27.21	43.80	35.30	54	-18.70	AV	Vertical		
2390.00	70.20	3.14	27.21	43.80	56.75	74	-17.25	Pk	Horizontal		
2390.00	50.36	3.14	27.21	43.80	36.91	54	-17.09	AV	Horizontal		
2483.50	70.38	3.58	27.70	44.00	57.66	74	-16.34	Pk	Vertical		
2483.50	48.46	3.58	27.70	44.00	35.74	54	-18.26	AV	Vertical		
2483.50	70.80	3.58	27.70	44.00	58.08	74	-15.92	Pk	Horizontal		
2483.50	48.86	3.58	27.70	44.00	36.14	54	-17.86	AV	Horizontal		

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



NTEK 北测®

EUT: Desert Fox Golf Speaker				Mode	Model No.:			DJ-10			
Temperature: 20 ℃				Relati	Relative Humidity:			48%			
Fest Mode:	Mode	ode2 / Mode3 / Mode4			Test By:			Gavan Zhang			
All the modula	ation mode	es have b	een testeo	l, and the	worst res	ult was	s rep	ort as be	low:		
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limi	its	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m) (dBµV/		(dB)	Туре		
3260	3260 69.23		29.57	44.70	58.14	74		-15.86	Pk	Vertical	
3260	47.72	4.04	29.57	44.70	36.63	54		-17.37	AV	Vertical	
3260	69.24	4.04	29.57	44.70	58.15	74		-15.85	Pk	Horizontal	
3260	48.27	4.04	29.57	44.70	37.18	54		-16.82	AV	Horizontal	
3332	69.54	4.26	29.87	44.40	59.27	74		-14.73	Pk	Vertical	
3332	48.68	4.26	29.87	44.40	38.41	54	ŀ	-15.59	AV	Vertical	
3332	70.90	4.26	29.87	44.40	60.63	74	ŀ	-13.37	Pk	Horizontal	
3332	48.25	4.26	29.87	44.40	37.98	54	ł	-16.02	AV	Horizontal	
17797	57.94	10.99	43.95	43.50	69.38	74	ŀ	-4.62	Pk	Vertical	
17797	38.63	10.99	43.95	43.50	50.07	54	ł	-3.93	AV	Vertical	
17788	52.65	11.81	43.69	44.60	63.55	74	ŀ	-10.45	Pk	Horizontal	
17788	38.85	11.81	43.69	44.60	49.75	54	ļ	-4.25	AV	Horizontal	

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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:	Desert Fox Golf Speaker	Model No.:	DJ-10
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





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 ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

7.4.6 Test Results

EUT:	Desert Fox Golf Speaker	Model No.:	DJ-10
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang



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.

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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:	Desert Fox Golf Speaker	Model No.:	DJ-10
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang

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:	Desert Fox Golf Speaker	Model No.:	DJ-10
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





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

 $\mathsf{VBW} \geq \mathsf{RBW}$

Sweep = auto

Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	Desert Fox Golf Speaker	Model No.:	DJ-10
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Gavan Zhang





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:	Desert Fox Golf Speaker	Model No.:	DJ-10
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Gavan Zhang





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 PCB antenna (Gain: 2.81 dBi). It comply with the standard requirement.

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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.





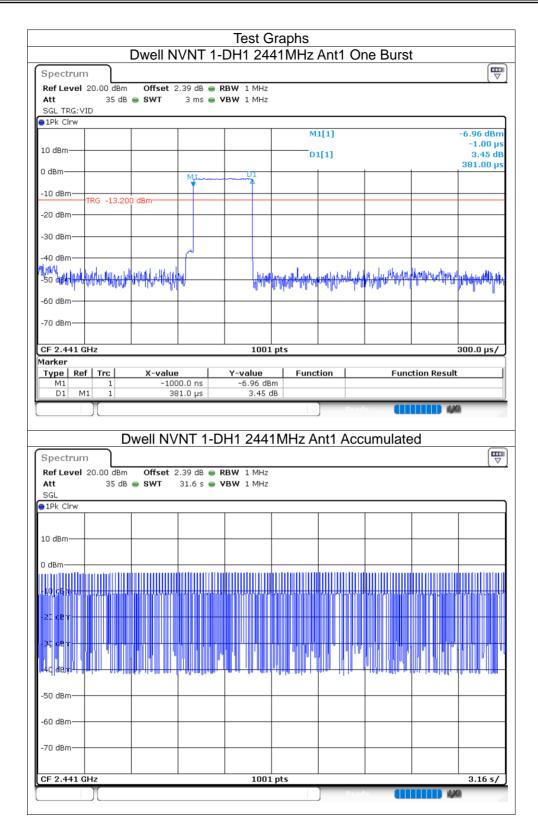
8 TEST RESULTS

8.1 Dwell Time

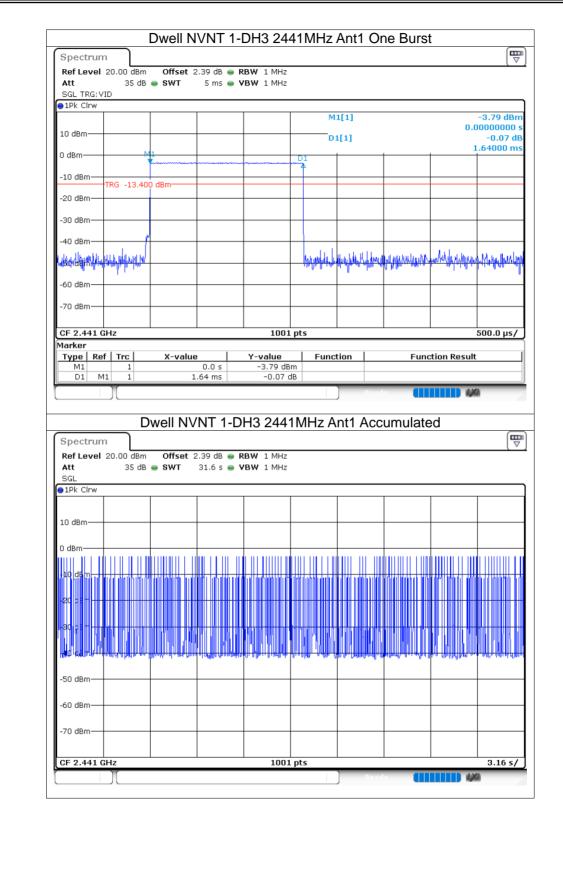
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.381	81.915	215	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.64	221.4	135	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.896	278.016	96	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.387	83.205	215	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.64	219.76	134	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.888	268.584	93	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.387	84.753	219	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.635	215.82	132	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.888	257.032	89	31600	400	Pass



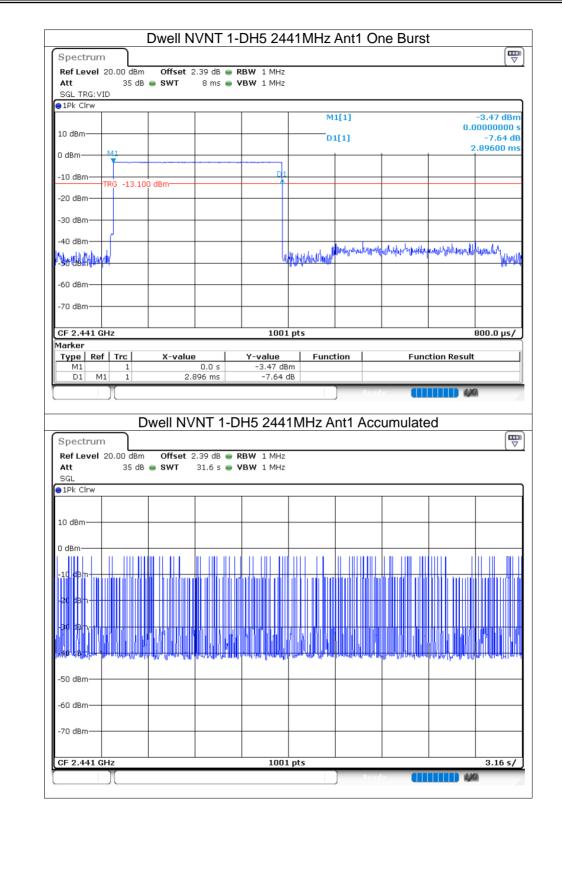
ACCREDITED Certificate #4298.01



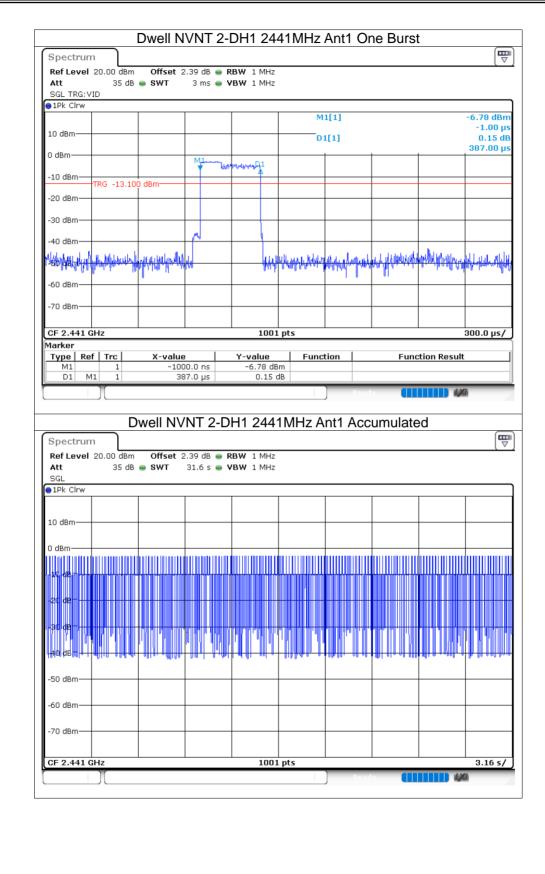






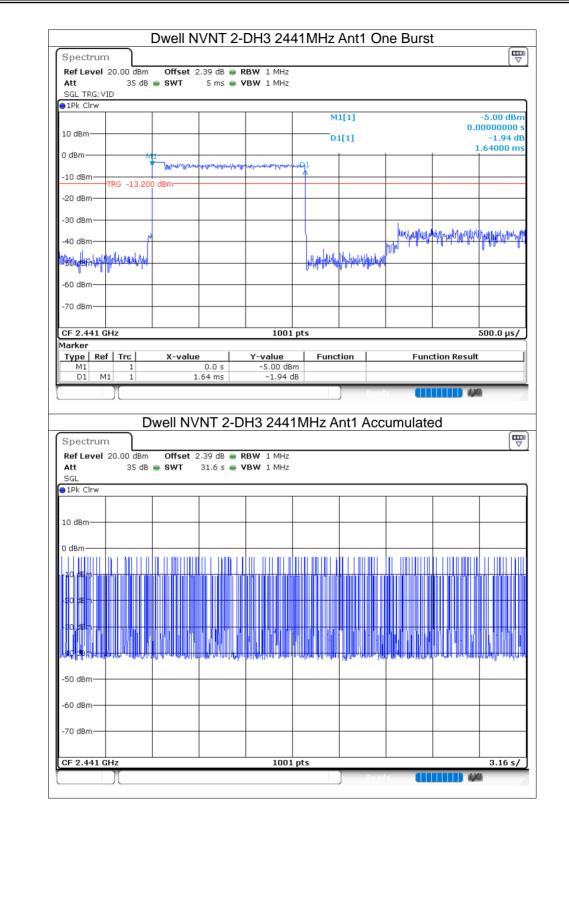








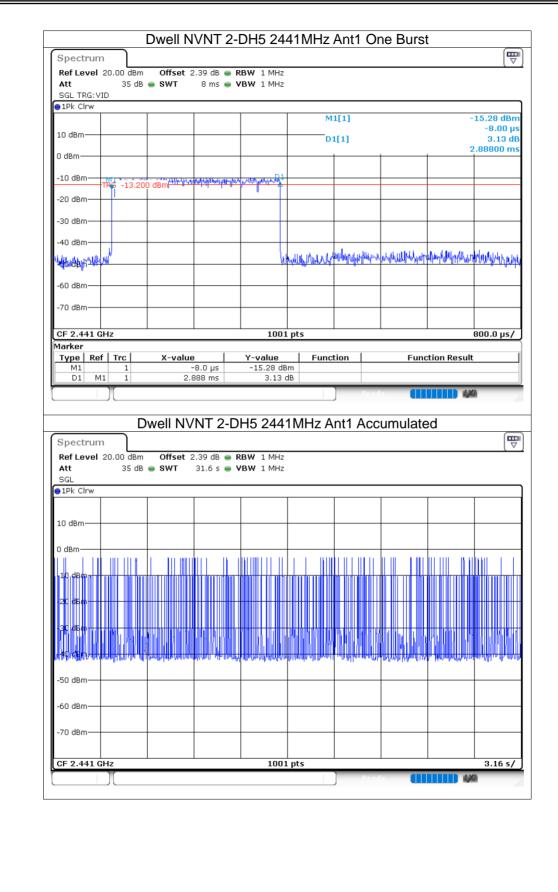
Report No.: S23091402601001



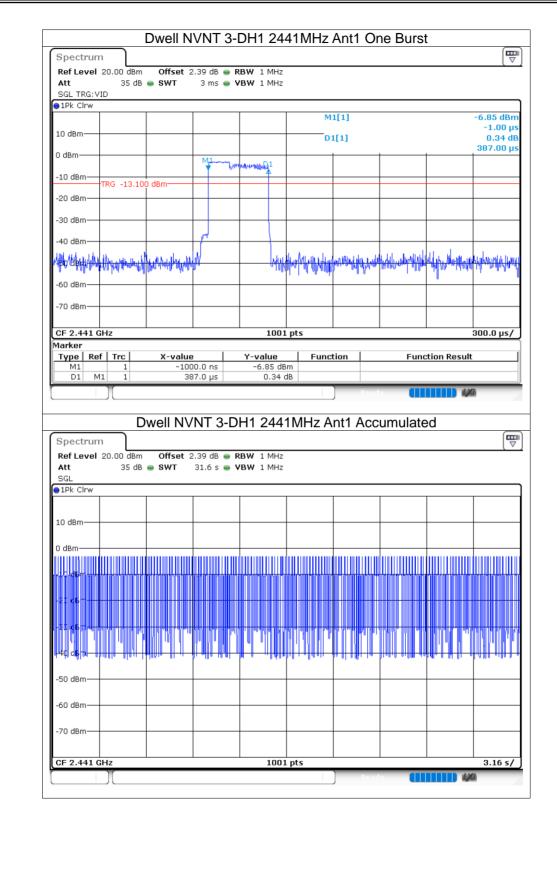
ilac-MR

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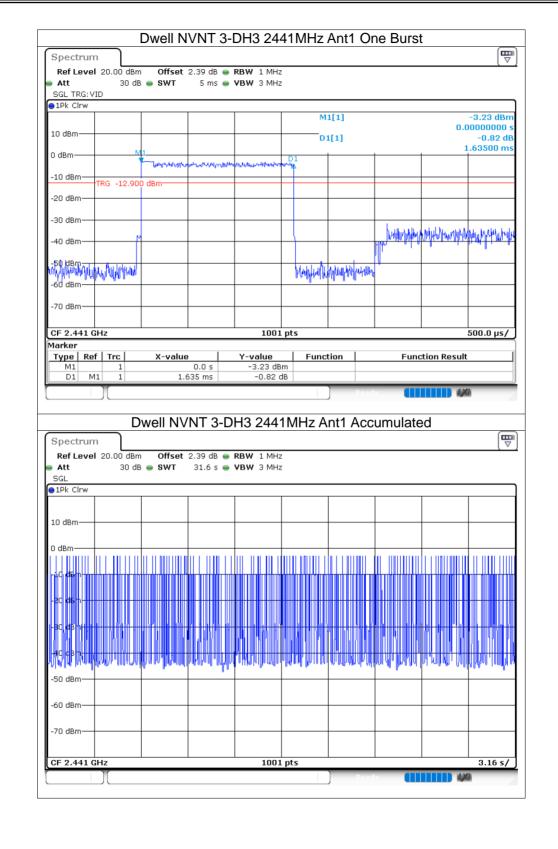








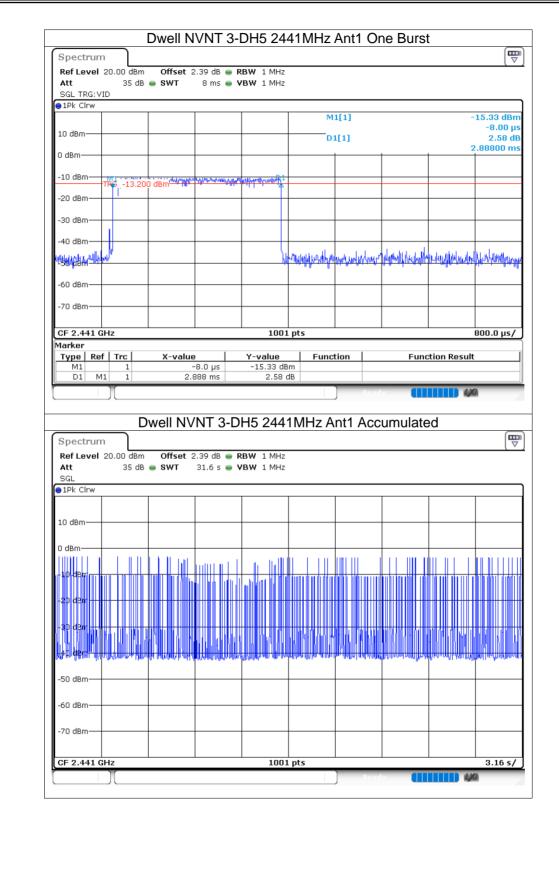




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8.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.55	21	Pass
NVNT	1-DH5	2441	Ant1	-3.21	21	Pass
NVNT	1-DH5	2480	Ant1	-3.61	21	Pass
NVNT	2-DH5	2402	Ant1	-2.53	21	Pass
NVNT	2-DH5	2441	Ant1	-3.21	21	Pass
NVNT	2-DH5	2480	Ant1	-3.63	21	Pass
NVNT	3-DH5	2402	Ant1	-2.5	21	Pass
NVNT	3-DH5	2441	Ant1	-2.66	21	Pass
NVNT	3-DH5	2480	Ant1	-3.07	21	Pass



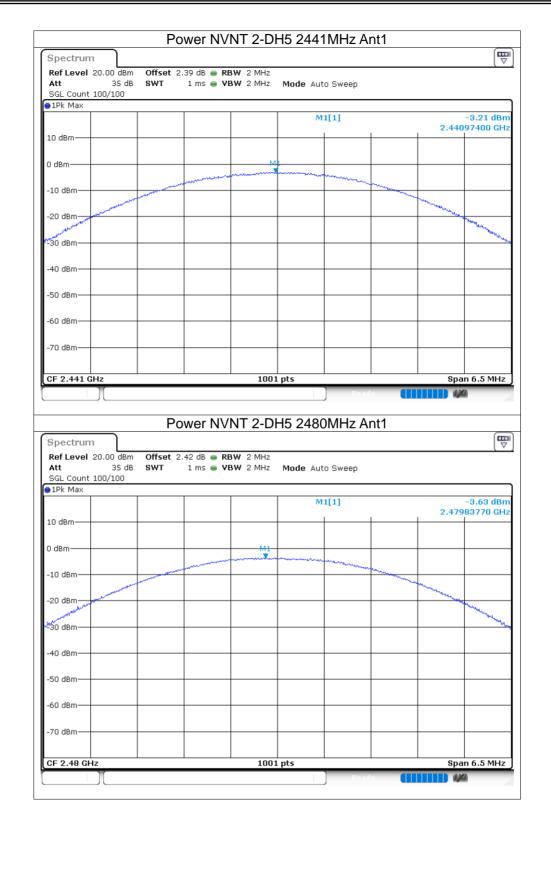


	PC	ower NVNT 1-D	no 2402IVIHZ A	ANTI	_
Spectrum					
Ref Level 20.00 dB Att 35 c SGL Count 100/100		.38 dB ● RBW 2 MHz 1 ms ● VBW 2 MHz	Mode Auto Sweep		
1Pk Max					
			M1[1]		-2.55 dBr
10 dBm				1	2.40182520 GH
10 00.00					
0 dBm		M1			
-10 dBm					
-20 dBm					
-20 0811					
-30 dBm					
-40 dBm					
-50 dBm					
-30 ubiii					
-60 dBm			<u> </u>		
-70 dBm					
	Pc	100 ower NVNT 1-D	H5 2441MHz A	dv 🚺	Span 5.0 MHz
CF 2.402 GHz Spectrum Ref Level 20.00 dB	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dv 🚺	
Spectrum Ref Level 20.00 dB Att 35 c	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	av 🚺	
Spectrum Ref Level 20.00 dB	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	Ant1	
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dv 🚺	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dy 11 Ant1	
Spectrum Ref Level 20.00 dB Att 35 d SGL Count 100/100 1Pk Max 10 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dy 11 Ant1	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 d SGL Count 100/100 1Pk Max	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dy MI	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 10 dBm 0 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dv III	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 d SGL Count 100/100 1Pk Max 10 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dv III	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 10 dBm 0 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	Ant1	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 10 dBm -10 dBm -20 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	Ant1	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 10 dBm -10 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dy (11	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 10 dBm -10 dBm -20 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dy (11	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100) IPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dv III	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100) IPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	dy (1)	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	Ant1	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	Ant1	-3.21 dBr
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 9 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	m Offset 2	DWER NVNT 1-D	H5 2441MHz A	Ant1	-3.21 dBr
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10 Bin M1[1] -3.61 df 10 dBin 447 979520 G 20 dBin 447 94 96 96 96 96 96 96 96 96 96 96 96 96 96	10 dBm M1[1] -9.61 dl 0 dBm 11 2.47979520 G 10 dBm 14 10 10 dBm 14 10 10 dBm 14 10 20 dBm 10 10 30 dBm 10 10 40 dBm 10 10 50 dBm 10 10 60 dBm 10 10 60 dBm 10 10 60 dBm 1001 pts Span 5.0 MF Power NVNT 2-DH5 2402MHz Ant1 Spectrum Reflexel 20.00 dBm M1[1] Add a sws M1[1] 2.40219400 G M1[1] C-2.53 dl M1[1] Add a sws M1[1] C-2.53 dl M1[2] Add a sws M1[2] <td colsp<="" th=""><th>10 dBm -9.61 df 0 dBm 2.47979520 G 10 dBm 10 10 dBm 10 20 dBm 10 30 dBm 10 30 dBm 10 40 dBm 10 50 dBm 1001 pts 50 dBm 10 dBm 10 dBm 10 dBm 20 dBm 10 dBm 50 dBm 10 dBm</th><th>00 Bm -9.61 df 0 dBm 10 dBm 10 dBm 10 dBm 20 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 20 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 50 dBm 10 dBm 60 dBm 10 dBm 25 2.40 GHz 1001 pts Spectrum (* Power NVNT 2-DH5 2402MHz Ant1 Spectrum (* MI 25 dB Sid Offset 2.38 dB @ RBW 2 MHz Mode Auto Sweep Sol. Count 100/100 If M ax MI 1 ms @ VBW 2 MHz MI 1 1 ms @ VBW 2 MHz 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm <</th></td>	<th>10 dBm -9.61 df 0 dBm 2.47979520 G 10 dBm 10 10 dBm 10 20 dBm 10 30 dBm 10 30 dBm 10 40 dBm 10 50 dBm 1001 pts 50 dBm 10 dBm 10 dBm 10 dBm 20 dBm 10 dBm 50 dBm 10 dBm</th> <th>00 Bm -9.61 df 0 dBm 10 dBm 10 dBm 10 dBm 20 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 20 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 50 dBm 10 dBm 60 dBm 10 dBm 25 2.40 GHz 1001 pts Spectrum (* Power NVNT 2-DH5 2402MHz Ant1 Spectrum (* MI 25 dB Sid Offset 2.38 dB @ RBW 2 MHz Mode Auto Sweep Sol. Count 100/100 If M ax MI 1 ms @ VBW 2 MHz MI 1 1 ms @ VBW 2 MHz 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm <</th>	10 dBm -9.61 df 0 dBm 2.47979520 G 10 dBm 10 10 dBm 10 20 dBm 10 30 dBm 10 30 dBm 10 40 dBm 10 50 dBm 1001 pts 50 dBm 10 dBm 10 dBm 10 dBm 20 dBm 10 dBm 50 dBm 10 dBm	00 Bm -9.61 df 0 dBm 10 dBm 10 dBm 10 dBm 20 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 20 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 30 dBm 10 dBm 50 dBm 10 dBm 60 dBm 10 dBm 25 2.40 GHz 1001 pts Spectrum (* Power NVNT 2-DH5 2402MHz Ant1 Spectrum (* MI 25 dB Sid Offset 2.38 dB @ RBW 2 MHz Mode Auto Sweep Sol. Count 100/100 If M ax MI 1 ms @ VBW 2 MHz MI 1 1 ms @ VBW 2 MHz 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm <
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-70 dBm Image: Span 5.0 MH CF 2.48 GHz 1001 pts Span 5.0 MH Power NVNT 2-DH5 2402MHz Ant1 Product Image: Span 5.0 MH Spectrum Image: Span 5.0 MH Image: Span 5.0 MH Ref Level 20.00 dBm Offset 2.38 dB @ RBW 2 MHz Mode Auto Sweep SGL Count 100/100 Offset 2.38 dB @ RBW 2 MHz Mode Auto Sweep SGL Count 100/100 Image: Span 5.0 MH M1[1] -2.53 dB 10 dBm M1 M1 M1 M1 10 dBm M1 M1 M1 M1 20 dBm M1 M1 M1 M1 40 dBm M1 M1 M1 M1	70 dBm 1001 pts Span 5.0 MI CF 2.48 GHz Span 5.0 MI CF 2.48 GHz Prote Clinitian Colspan="2">Span 5.0 MI CF 2.48 GHz Prote Clinitian Colspan="2">Span 5.0 MI Prote Clinitian Colspan="2">Clinitian Colspan="2">Clinitian Colspan="2">Clinitian Colspan="2">Span 5.0 MI Prote Clinitian Colspan="2">Clinitian Colspan="2" Clinitian Colspan="2" Clinitian Colspan="2" Clinitian Colspan="2" MI1 Clinitian Colspan="2" MI1 Clinitian Colspan="2" Clinitian Colspan="2" Clinitian Colspan="2" Clinitian Colspan="2" Clinitian Colspan="2" <td co<="" td=""><td>TO dBm IOO1 pts Span 5.0 MH CF 2.48 GHz IOO1 pts Prote IOO1 pts Span 5.0 MH CF 2.48 GHz Power NVNT 2-DH5 2402MHz Ant1 IOO1 pts Span 5.0 MH Spectrum IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td><td>70 dBm 1001 pts Span 5.0 MH 2F 2.48 GHz 1001 pts Span 5.0 MH Power NVNT 2-DH5 2402MHz Ant1 Spectrum (* Spectrum (* Ref Level 20.00 dBm Offset 2.38 dB • RBW 2 MHz Mode Auto Sweep SGL Count 100/100 M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1 M1 0 dBm M1 M1 0 dBm M1 M1 0 dBm M1 M1 M1 M1 0 dBm M1 M1<</td></td>	<td>TO dBm IOO1 pts Span 5.0 MH CF 2.48 GHz IOO1 pts Prote IOO1 pts Span 5.0 MH CF 2.48 GHz Power NVNT 2-DH5 2402MHz Ant1 IOO1 pts Span 5.0 MH Spectrum IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td> <td>70 dBm 1001 pts Span 5.0 MH 2F 2.48 GHz 1001 pts Span 5.0 MH Power NVNT 2-DH5 2402MHz Ant1 Spectrum (* Spectrum (* Ref Level 20.00 dBm Offset 2.38 dB • RBW 2 MHz Mode Auto Sweep SGL Count 100/100 M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1 M1 0 dBm M1 M1 0 dBm M1 M1 0 dBm M1 M1 M1 M1 0 dBm M1 M1<</td>	TO dBm IOO1 pts Span 5.0 MH CF 2.48 GHz IOO1 pts Prote IOO1 pts Span 5.0 MH CF 2.48 GHz Power NVNT 2-DH5 2402MHz Ant1 IOO1 pts Span 5.0 MH Spectrum IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	70 dBm 1001 pts Span 5.0 MH 2F 2.48 GHz 1001 pts Span 5.0 MH Power NVNT 2-DH5 2402MHz Ant1 Spectrum (* Spectrum (* Ref Level 20.00 dBm Offset 2.38 dB • RBW 2 MHz Mode Auto Sweep SGL Count 100/100 M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1[1] -2.53 dE 0 dBm M1 M1 0 dBm M1 M1 0 dBm M1 M1 0 dBm M1 M1 M1 M1 0 dBm M1 M1<
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CF 2.48 GHz 1001 pts Span 5.0 MH Power NVNT 2-DH5 2402MHz Ant1 Prote Image: Comparison of the system of the syste	CF 2.48 GHz 1001 pts Span 5.0 MH Power NVNT 2-DH5 2402MHz Ant1 Spectrum Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspa="2" Image: Colspan="2" Image: Colspan="2" Image: Colsp	CF 2.48 GHz 1001 pts Span 5.0 MH Power NVNT 2-DH5 2402MHz Ant1 Spectrum Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspa="2" Image: Colspan="2" Image: Colspan="2" Image: Colsp	Description Span 5.0 MH Power NVNT 2-DH5 2402MHz Ant1 Power Spectrum (* Ref Level 20.00 dbm Offset 2.38 db RBW 2 MHz Att 35 db SWT 1 ms VBW 2 MHz Max	
Power NVNT 2-DH5 2402MHz Ant1 Spectrum Image: Control 100/100 SGL Count 100/100 SWT 1 ms VBW 2 MHz Mode Auto Sweep SGL Count 100/100 -2.53 dE 2.40219480 G D dBm M1 -2.03 dE -2.03 dE -2.03 dE 10 dBm M1 -0.0000 -0.0000 -0.0000 -0.0000 20 dBm M1 -0.0000<	Power NVNT 2-DH5 2402MHz Ant1 Spectrum (************************************	Device Power NVNT 2-DH5 2402MHz Ant1 Spectrum (* Ref Level 20.00 dBm Offset 2.38 dB • RBW 2 MHz Mode Auto Sweep SGL Count 100/100 M1[1] -2.53 dE M1[1] -2.53 dE 10 dBm M1 10 dBm M1 20 dBm M1 30 dBm Image: Solar State St	Power NVNT 2-DH5 2402MHz Ant1 Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspan	
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10 dBm M1 2.40219480 G 0 dBm M1 M1 10 dBm M1 M1 20 dBm M1 M1 30 dBm M1 M1	10 dBm M1 M1 0 dBm M1 M1 -10 dBm M1 M1 -20 dBm M1 M1 -30 dBm M1 M1 -40 dBm M1 M1	10 dBm M1 2.40219480 G 0 dBm M1 M1 10 dBm M1 M1 20 dBm M1 M1 30 dBm M1 M1 30 dBm M1 M1 50 dBm M1 M1	10 dBm M1 2.40219480 G 10 dBm M1 M1 10 dBm M1 M1 20 dBm M1 M1 30 dBm M1 M1 30 dBm M1 M1 40 dBm M1 M1 50 dBm M1 M1	
10 dBm	10 dBm	10 dBm	10 dBm M1 A A A A A A A A A A A A A A A A A A	
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10 dBm	10 dBm	10 dBm	10 dBm 20	
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	-30 dBm	40 dBm	30 dBm	
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Ref Level 20.00 dB Att 35 d SGL Count 100/100		2.38 dB 👄 R 1 ms 👄 V	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep			
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CF 2.402 GHz			1001	pts			Spa	n 6.5 MHz
Spectrum Ref Level 20.00 dB	m Offset 2	2.39 dB 👄 R				nt1		
Ref Level 20.00 dB Att 35 c SGL Count 100/100	m Offset 2	2.39 dB 👄 R		Mode Aut	o Sweep	nt1		
Ref Level 20.00 dB Att 35 d SGL Count 100/100 1Pk Max 35 d	m Offset 2	2.39 dB 👄 R	BW 2 MHz	Mode Aut		nt1	2.44	-2.66 dBr
Ref Level 20.00 dB Att 35 cc SGL Count 100/100 IPk Max 10 dBm 10 dBm	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1	2.44(-2.66 dBr
Ref Level 20.00 dB Att 35 cc SGL Count 100/100 IPk Max 10 dBm 10 dBm	m Offset 2	2.39 dB 👄 R	BW 2 MHz	Mode Aut	o Sweep	nt1	2.44(-2.66 dBr
Ref Level 20.00 dB Att 35 cc SGL Count 100/100 IPk Max 10 dBm 10 dBm	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1	2.440	-2.66 dBr
Ref Level 20.00 dB Att 35 cc SGL Count 100/100 IPk Max 10 dBm 10 dBm	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1	2.44	-2.66 dBr
Ref Level 20.00 dB Att 35 c SGL Count 100/100 IPk Max 10 dBm 0 dBm -10 dBm	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1	2.44	-2.66 dBr
Ref Level 20.00 dB Att 35 c SGL Count 100/100 IPk Max 10 dBm 10 dBm - -10 dBm - -20 dBm -	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1	2.44(-2.66 dBr
Ref Level 20.00 dB Att 35 c SGL Count 100/100 I IPk Max 10 dBm 10 dBm -0 dBm -10 dBm	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1	2.440	-2.66 dBr
Ref Level 20.00 dB Att 35 d SGL Count 100/100 I D dBm 0 0 -10 dBm - - -20 dBm - - -30 dBm - -	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1	2.44	-2.66 dBr
Ref Level 20.00 dB Att 35 c SGL Count 100/100 I IPk Max 10 0 dBm - - -10 dBm - - -20 dBm - - -30 dBm - - -40 dBm - -	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1	2.440	-2.66 dBr
Ref Level 20.00 dB Att 35 c SGL Court 100/100 • IPk Max	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1		-2.66 dBr
Ref Level 20.00 dB Att 35 d SGL Count 100/100 IPk Max 10 10 0 dBm - - -10 dBm - - -20 dBm - - -30 dBm - - -60 dBm - -	m Offset 2	2.39 dB 👄 R	BW 2 MHz BW 2 MHz	Mode Aut	o Sweep	nt1		-2.66 dBr



Offset 2. SWT	-		
		M1[1]	 -3.07 dBn .48007790 GH;
			.46007790 GH
		M1	
			The second se
			manderson
		001 pts	Span 6.5 MHz
		SWT 1 ms • VBW 2 Mi	SWT 1 ms VBW 2 MHz Mode Auto Sweep M1[1] 2 M1 1 2 M1 1 2 M1 1 1 M1 1 1 <

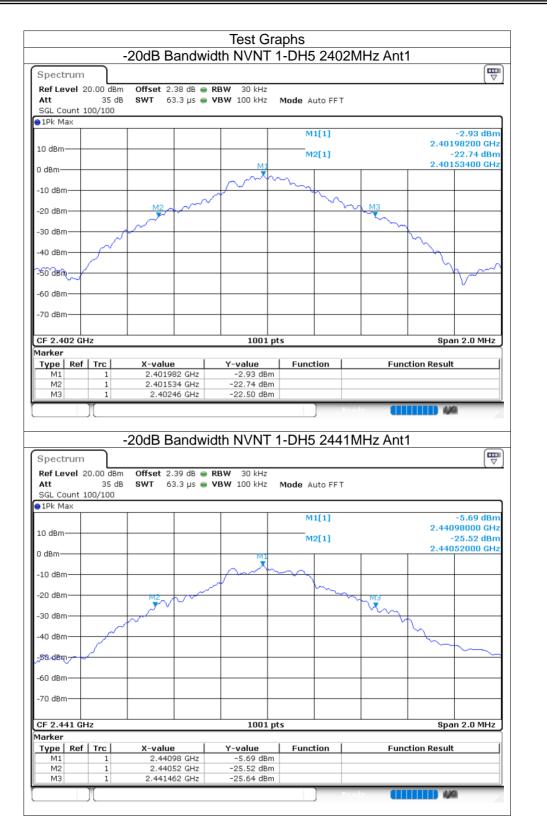




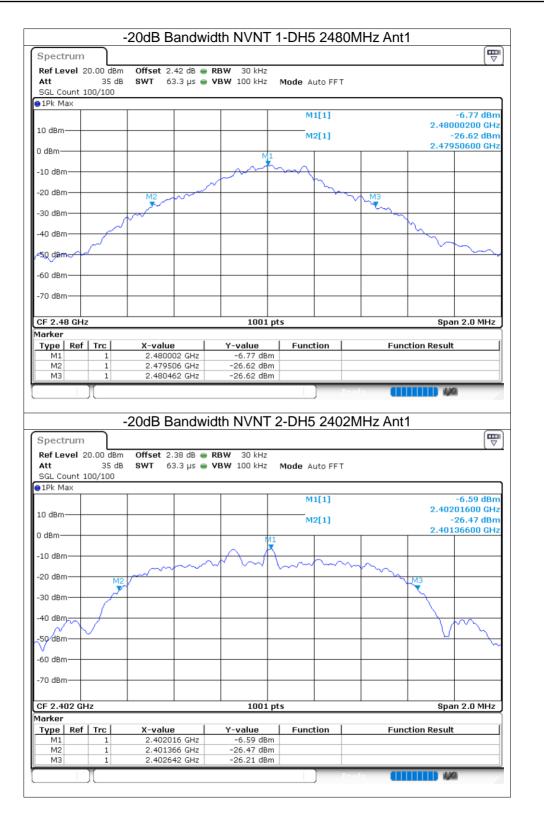
8.3 -20dB Bandwidth

0.3 - 200D	Danawic					
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.926	0	Pass
NVNT	1-DH5	2441	Ant1	0.942	0	Pass
NVNT	1-DH5	2480	Ant1	0.956	0	Pass
NVNT	2-DH5	2402	Ant1	1.276	0	Pass
NVNT	2-DH5	2441	Ant1	1.316	0	Pass
NVNT	2-DH5	2480	Ant1	1.278	0	Pass
NVNT	3-DH5	2402	Ant1	1.302	0	Pass
NVNT	3-DH5	2441	Ant1	1.262	0	Pass
NVNT	3-DH5	2480	Ant1	1.3	0	Pass

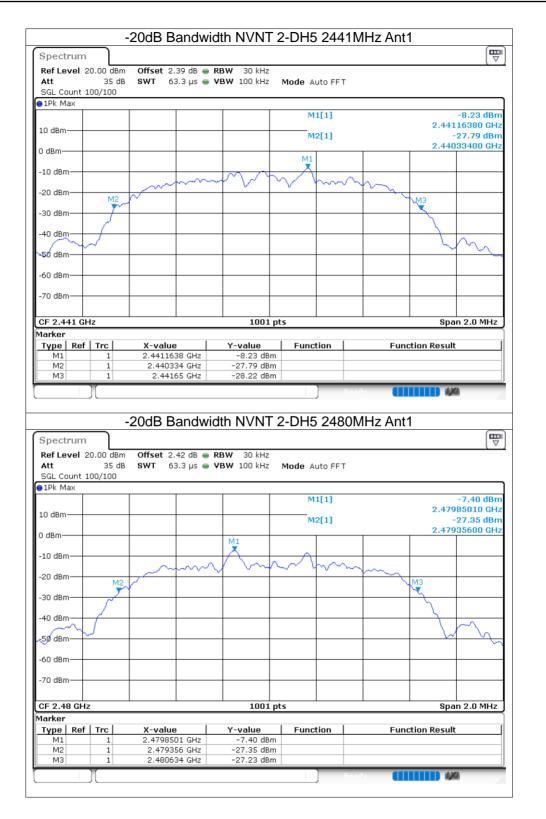








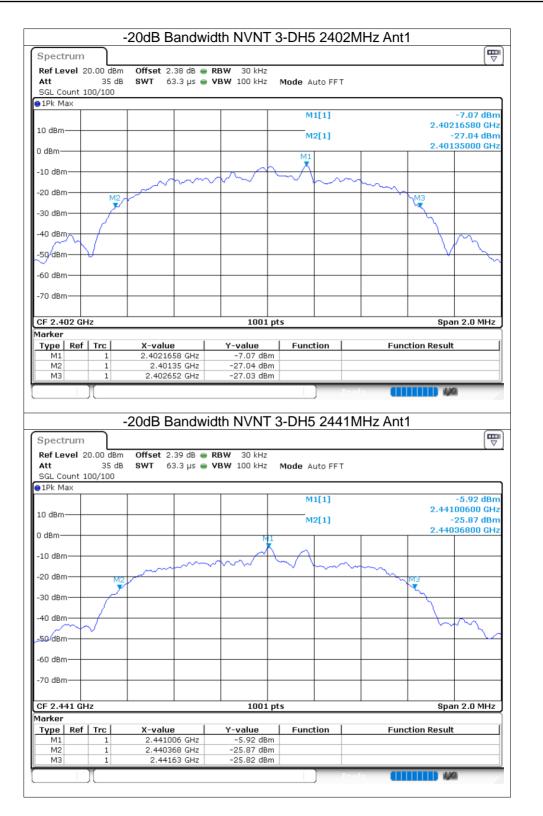




Iac-MR

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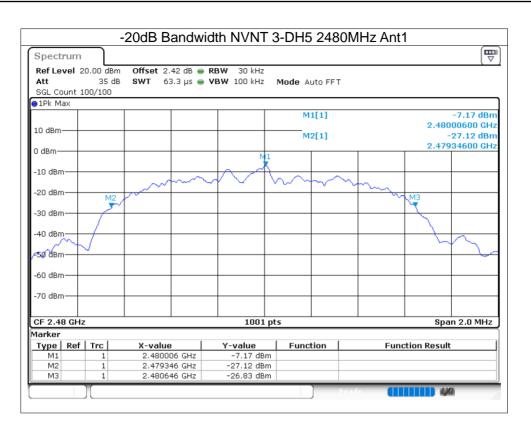




Iac-MR

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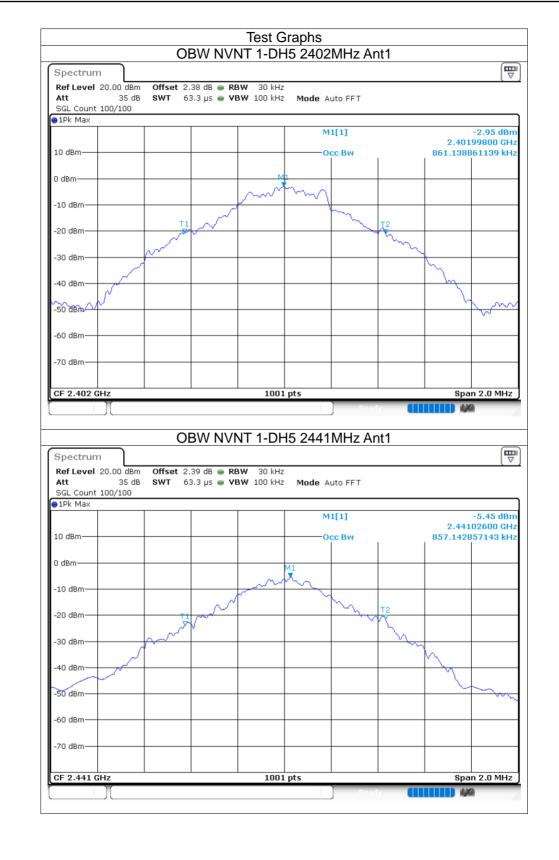


8.4 Occupied Channel Bandwidth

		awiath		
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.861
NVNT	1-DH5	2441	Ant1	0.857
NVNT	1-DH5	2480	Ant1	0.863
NVNT	2-DH5	2402	Ant1	1.191
NVNT	2-DH5	2441	Ant1	1.195
NVNT	2-DH5	2480	Ant1	1.197
NVNT	3-DH5	2402	Ant1	1.193
NVNT	3-DH5	2441	Ant1	1.209
NVNT	3-DH5	2480	Ant1	1.193











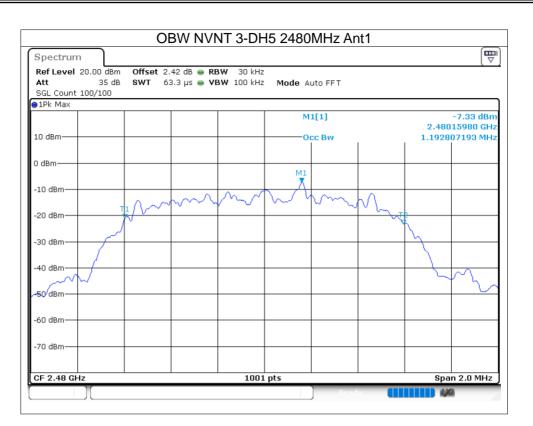
















8.5 Carrier Frequencies Separation

ele earner							
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.034	2403.038	1.004	0.617	Pass
NVNT	1-DH5	Ant1	2440.996	2441.974	0.978	0.628	Pass
NVNT	1-DH5	Ant1	2478.932	2480.02	1.088	0.637	Pass
NVNT	2-DH5	Ant1	2401.856	2402.854	0.998	0.851	Pass
NVNT	2-DH5	Ant1	2441.014	2442.192	1.178	0.877	Pass
NVNT	2-DH5	Ant1	2479.002	2479.994	0.992	0.852	Pass
NVNT	3-DH5	Ant1	2402.008	2403.164	1.156	0.868	Pass
NVNT	3-DH5	Ant1	2441.008	2441.966	0.958	0.841	Pass
NVNT	3-DH5	Ant1	2479.002	2480.002	1	0.867	Pass



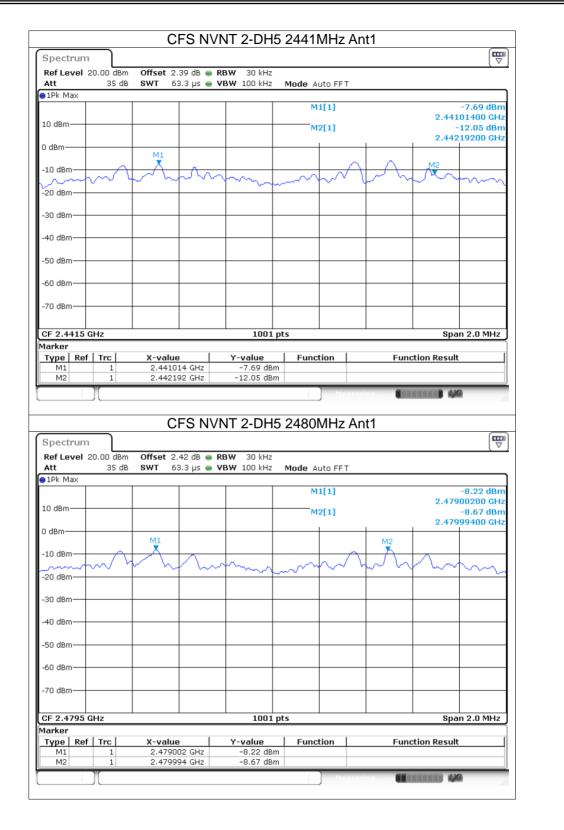




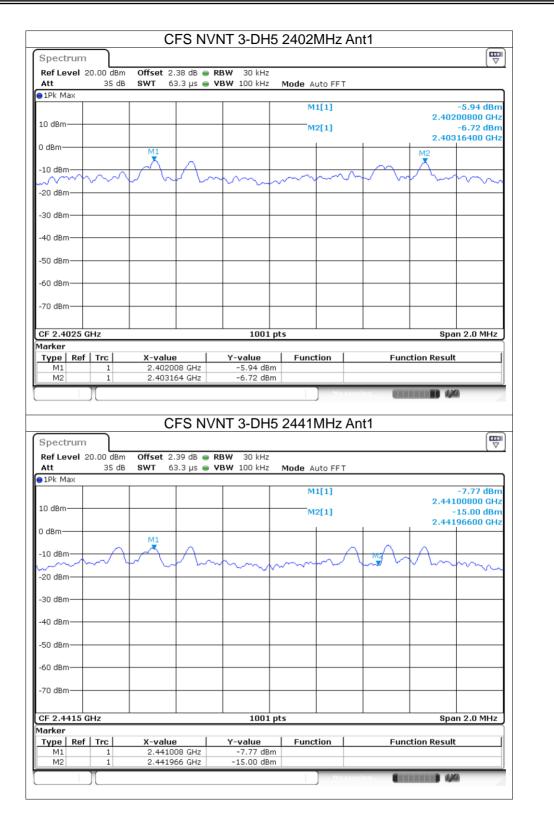




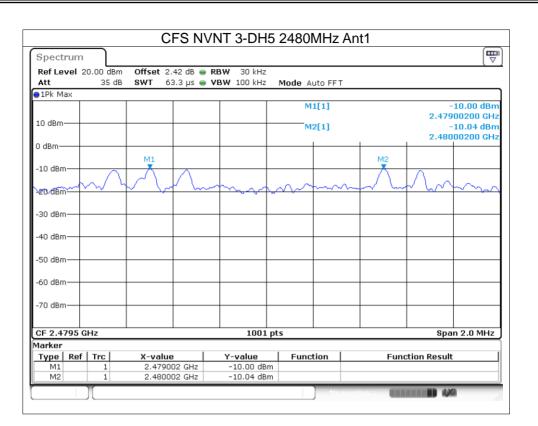












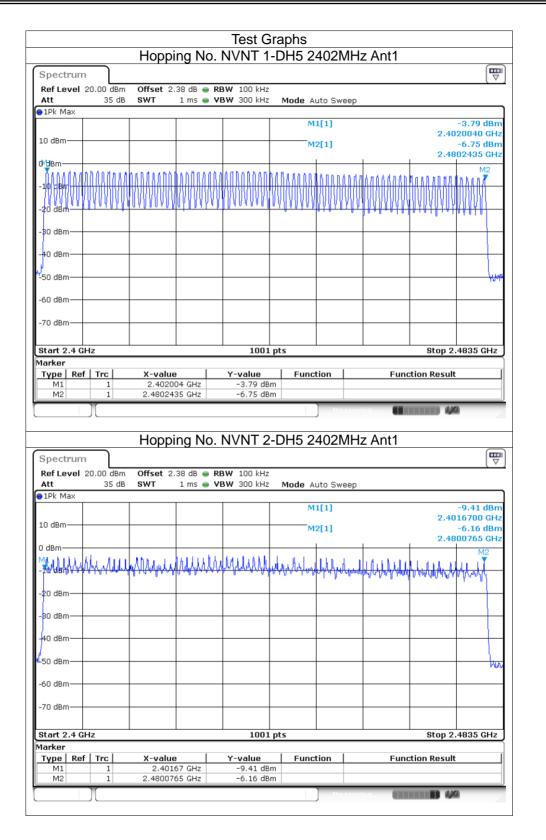




8.6 Number of Hopping Channel

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







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1Pk Ma	ах													
								M1[1]					-3.59 (
10 dBm-												2.40	18370	
10 0000								_M2[1]				9.46	-5.93 (302435	
MaBm—							<u> </u>					2.40	M	
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M1 M2		1		2.4018	37 GHz	-3.59 dB -5.93 dB								

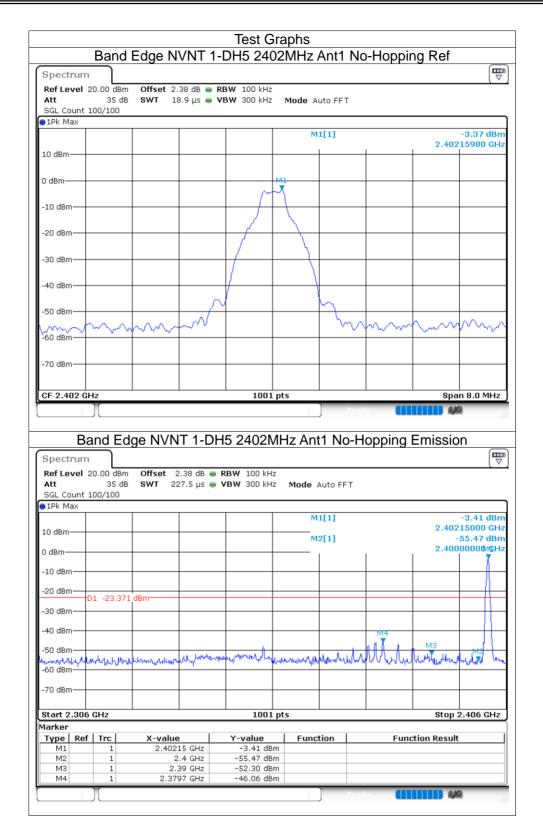




8.7 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-42.68	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-45.4	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-45.57	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-46.67	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-44.95	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-44.62	-20	Pass







Spectrui	m								l ⊞
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E Spectrur Ref Level Att SGL Coun) 1Pk Max	Band Ed	Offset 2	2.42 dB 👄 R	5 2480N	/Hz Ant ^z Mode /	Auto FFT 1[1]	opping I	Emissic	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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E Spectrur Ref Level Att SGL Coun 1Pk Max 10 dBm	Band Ed m 1 20.00 dBm 35 dB t 100/100	Offset 2 SWT 22	2.42 dB 👄 R	5 2480N	/Hz Ant ^z Mode /	Auto FFT 1[1]	opping I	Emissic	-4.33 dBn 115000 GH3 53.80 dBn
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