



RADIO TEST REPORT FCC ID: HLZ-ACERONE10T2

Product: Tablet

Trade Mark: acer

Model No.: Acer_one_10_T2

Family Model: N/A

Report No.: S22082304105001

Issue Date: Oct 19. 2022

Prepared for

Acer Incorporated

8F, 88, Sec. 1, Xintai 5th Rd. Xizhi New Taipei City, 221, Taiwan

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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1 TEST RESULT CERTIFICATION

Applicant's name:	Acer Incorporated
Address:	8F, 88, Sec. 1, Xintai 5th Rd. Xizhi New Taipei City, 221, Taiwan
Manufacturer's Name:	Acer Incorporated
Address:	8F, 88, Sec. 1, Xintai 5th Rd. Xizhi New Taipei City, 221, Taiwan
Product description	
Product name:	Tablet
Model and/or type reference:	Acer_one_10_T2
Family Model:	N/A
Sample number	S220823041012

Measurement Procedure Used:

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

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

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

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

Date of Test	:	Aug 24, 2022 ~ Oct 18, 2022	
Testing Engineer	:	Hen lin	
		(Allen Liu)	
Authorized Signatory	:	Alex	
9 ,		(Alev I i)	

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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.

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516. IC-Registration
The Certificate Registration Number is 9270A.

CAB identifier: CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

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±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	
Trade Mark	acer	
FCC ID	HLZ-ACERONE10T2	
Model No.	Acer_one_10_T2	
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	PIFA Antenna	
Antenna Gain	1.23 dBi	
Adapter	MODEL: KA12C-0502000US INPUT: 100-240V~50/60Hz 0.35A Max OUTPUT: 5V2000mA	
Battery	DC 3.7V, 6000mAh	
Power supply	DC 3.7V from battery or DC 5V from Adapter.	
HW Version	EM_T7818_V1.1 L20/MTK8766V/WAA	
SW Version	Base_Acer_one_10_T2_mt6761_Android12_V001_20221101100029	

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.

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Revision History

Report No.	Version	Description	Issued Date
S22082304105001	Rev.01	Initial issue of report	Oct 19, 2022

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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.

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 $\pi/4$ -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	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.

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6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

For AC Conducted Emission Mode

C-1

AC PLUG

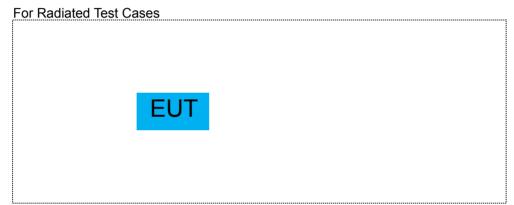
AE-1

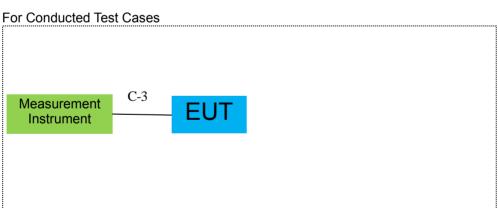
Adapter

C-2

AE-2

Earphone





Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

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

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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	KA12C-0502000US	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 <code>[Length]</code> 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

Raule	Radiation& Conducted Test equipment						
Ite	m Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2022.04.06	2023.04.05	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2022.04.06	2023.04.05	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2022.04.06	2023.04.05	1 year
4	Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2023.03.30	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2021.11.07	2022.11.06	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2022.06.17	2023.06.16	1 year
1	O Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2021.11.07	2022.11.06	1 year
1	1 Power Meter	DARE	RPR3006W	15I00041SN O84	2021.11.07	2022.11.06	1 year
1	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
1	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
1	High Test 4 Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
1	5 Filter	TRILTHIC	2400MHz	29	2021.11.07	2022.11.06	1 year
1	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

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AC Conduction Test equipment					Calibratian		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
2	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2022.04.06	2023.04.05	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 Cable (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.

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7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

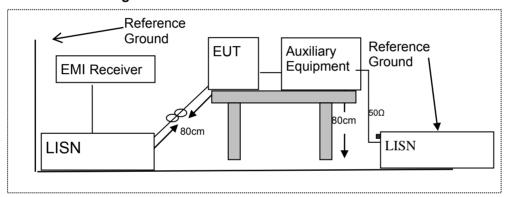
7.1.2 Conformance Limit

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

7.1.5 Test Results

Pass

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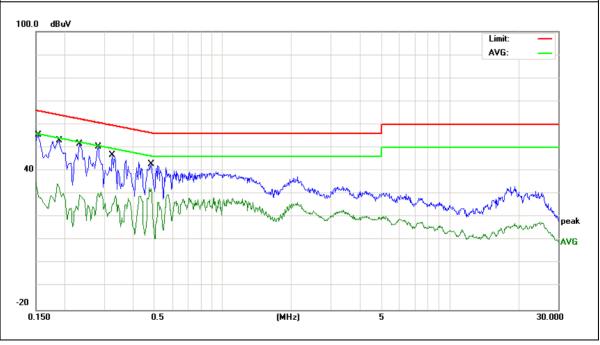
7.1.6 **Test Results**

EUT:	Tablet	Model Name:	Acer_one_10_T2
Temperature:	22 ℃	Relative Humidity:	57%
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	Domark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1539	45.78	9.60	55.38	65.78	-10.40	QP
0.1539	35.42	9.60	45.02	55.78	-10.76	AVG
0.1900	43.54	9.61	53.15	64.03	-10.88	QP
0.1900	33.64	9.61	43.25	54.03	-10.78	AVG
0.2340	41.80	9.63	51.43	62.30	-10.87	QP
0.2340	31.73	9.63	41.36	52.30	-10.94	AVG
0.2819	40.72	9.64	50.36	60.76	-10.40	QP
0.2819	30.61	9.64	40.25	50.76	-10.51	AVG
0.3260	37.05	9.64	46.69	59.55	-12.86	QP
0.3260	26.38	9.64	36.02	49.55	-13.53	AVG
0.4860	33.29	9.66	42.95	56.24	-13.29	QP
0.4860	22.49	9.66	32.15	46.24	-14.09	AVG

Remark:

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



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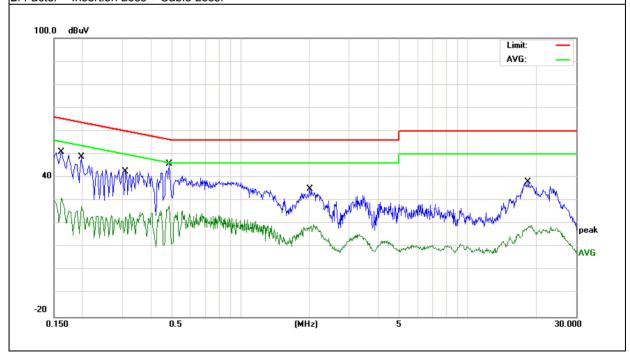


EUT:	Tablet	Model Name:	Acer_one_10_T2
Temperature:	25℃	Relative Humidity:	62%
Pressure:	1010hPa	Phase :	N
Test Voltage:	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damada
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1620	41.41	9.65	51.06	65.36	-14.30	QP
0.1620	31.37	9.65	41.02	55.36	-14.34	AVG
0.1980	39.26	9.62	48.88	63.69	-14.81	QP
0.1980	28.63	9.62	38.25	53.69	-15.44	AVG
0.3100	33.01	9.64	42.65	59.97	-17.32	QP
0.3100	22.38	9.64	32.02	49.97	-17.95	AVG
0.4820	36.15	9.66	45.81	56.30	-10.49	QP
0.4820	25.67	9.66	35.33	46.30	-10.97	AVG
2.0180	25.23	9.67	34.90	56.00	-21.10	QP
2.0180	14.35	9.67	24.02	46.00	-21.98	AVG
18.4139	27.80	10.12	37.92	60.00	-22.08	QP
18.4139	17.21	10.12	27.33	50.00	-22.67	AVG

Remark:

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



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31.2-31.8 36.43-36.5

(2)

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

12.29-12.293

12.51975-12.52025

12.57675-12.57725

13.36-13.41

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

MHz MHz MHz GHz 0.090-0.110 16.42-16.423 399.9-410 4.5-5.15 0.495-0.505 16.69475-16.69525 608-614 5.35-5.46 2.1735-2.1905 16.80425-16.80475 960-1240 7.25-7.75 4.125-4.128 25.5-25.67 1300-1427 8.025-8.5 4.17725-4.17775 37.5-38.25 1435-1626.5 9.0-9.2 4.20725-4.20775 73-74.6 1645.5-1646.5 9.3-9.5 74.8-75.2 1660-1710 6.215-6.218 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 23.6-24.0 8.41425-8.41475 162.0125-167.17 3260-3267

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.

3332-3339

3345.8-3358

3600-4400

167.72-173.2

240-285

322-335.4

recarding partial epochied on release(a), their tile release(a) infinition table below had to be removed.			
Field Strength (μV/m)	Field Strength (dBµV/m)	Measurement Distance	
2400/F(KHz)	20 log (uV/m)	300	
24000/F(KHz)	20 log (uV/m)	30	
30	29.5	30	
100	40	3	
150	43.5	3	
200	46	3	
500	54	3	
	Field Strength (µV/m) 2400/F(KHz) 24000/F(KHz) 30 100 150 200	Field Strength (μV/m) Field Strength (dBμV/m) 2400/F(KHz) 20 log (uV/m) 24000/F(KHz) 20 log (uV/m) 30 29.5 100 40 150 43.5 200 46	

Limits of Radiated Emission Measurement(Above 1000MHz)

Erogueney(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.

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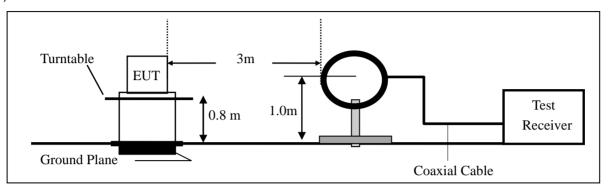


7.2.3 Measuring Instruments

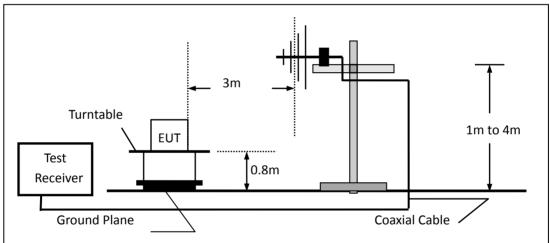
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

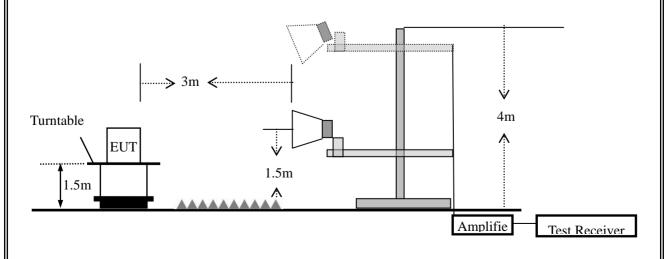
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



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7.2.5 Test Procedure

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

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 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.
- For the radiated emission test above 1GHz:
 Place the measurement antenna away from
 - 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

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

Frequency Band (MHz)	Frequency Band (MHz) Function		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	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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

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

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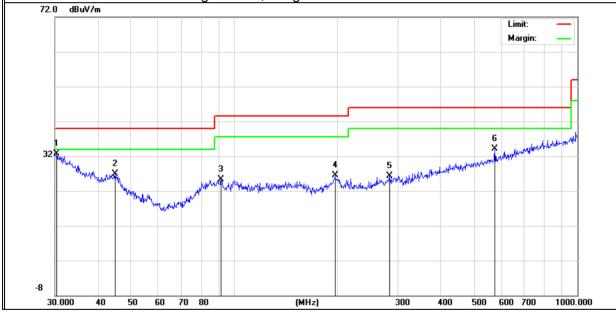
■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Tablet	Model Name:	Acer_one_10_T2
Temperature:	25℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 3 GFSK
Test Voltage:	DC 3.7V		

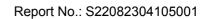
Polar	Frequency	Meter Factor Emission Livel Lir		ling Factor Level Limits Margin			Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.3170	6.86	25.86	32.72	40.00	-7.28	QP
V	44.9004	9.19	17.81	27.00	40.00	-13.00	QP
V	91.4949	8.01	17.21	25.22	43.50	-18.28	QP
V	196.5098	10.11	16.37	26.48	43.50	-17.02	QP
V	282.9852	6.16	20.08	26.24	46.00	-19.76	QP
V	574.6258	7.97	26.16	34.13	46.00	-11.87	QP

Remark:

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



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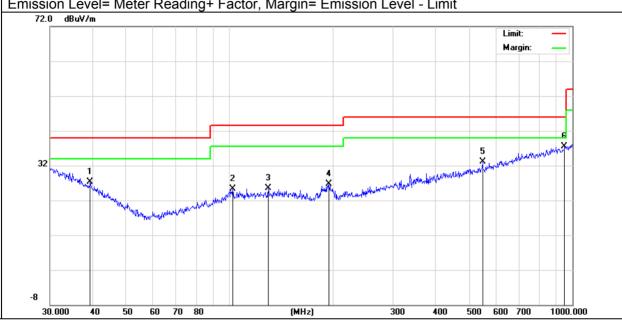




Polar	Frequency	Frequency Meter Reading		Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	39.2991	6.21	21.05	27.26	40.00	-12.74	QP
Н	102.3597	7.22	18.05	25.27	43.50	-18.23	QP
Н	129.9225	6.52	19.01	25.53	43.50	-17.97	QP
Н	195.1365	10.16	16.52	26.68	43.50	-16.82	QP
Н	547.0977	7.48	25.59	33.07	46.00	-12.93	QP
Н	948.7609	6.69	30.89	37.58	46.00	-8.42	QP

Remark:





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 Spurious Emission Above 1GHz (1GHz to 25GHz) 		Spurious E	Emission	Above	1GHz	(1GHz to	25GHz)
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EUT:	Tablet	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment		
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)				
Low Channel (2402 MHz)(GFSK)Above 1G											
4804.214	63.10	5.21	35.59	44.30	59.60	74.00	-14.40	Pk	Vertical		
4804.214	41.40	5.21	35.59	44.30	37.90	54.00	-16.10	AV	Vertical		
7206.265	61.51	6.48	36.27	44.60	59.66	74.00	-14.34	Pk	Vertical		
7206.265	44.67	6.48	36.27	44.60	42.82	54.00	-11.18	AV	Vertical		
4804.109	62.13	5.21	35.55	44.30	58.59	74.00	-15.41	Pk	Horizontal		
4804.109	43.75	5.21	35.55	44.30	40.21	54.00	-13.79	AV	Horizontal		
7206.224	63.89	6.48	36.27	44.52	62.12	74.00	-11.88	Pk	Horizontal		
7206.224	47.63	6.48	36.27	44.52	45.86	54.00	-8.14	AV	Horizontal		
			Mid Chan	nel (2441 l	MHz)(GFSK)	Above 1G					
4882.396	63.21	5.21	35.66	44.20	59.88	74.00	-14.12	Pk	Vertical		
4882.396	44.18	5.21	35.66	44.20	40.85	54.00	-13.15	AV	Vertical		
7323.241	61.51	7.10	36.50	44.43	60.68	74.00	-13.32	Pk	Vertical		
7323.241	47.97	7.10	36.50	44.43	47.14	54.00	-6.86	AV	Vertical		
4882.108	61.23	5.21	35.66	44.20	57.90	74.00	-16.10	Pk	Horizontal		
4882.108	48.24	5.21	35.66	44.20	44.91	54.00	-9.09	AV	Horizontal		
7323.132	60.48	7.10	36.50	44.43	59.65	74.00	-14.35	Pk	Horizontal		
7323.132	42.93	7.10	36.50	44.43	42.10	54.00	-11.90	AV	Horizontal		
			High Chan	nel (2480	MHz)(GFSK)) Above 1G	i				
4960.397	66.70	5.21	35.52	44.21	63.22	74.00	-10.78	Pk	Vertical		
4960.397	43.54	5.21	35.52	44.21	40.06	54.00	-13.94	AV	Vertical		
7440.201	61.45	7.10	36.53	44.60	60.48	74.00	-13.52	Pk	Vertical		
7440.201	46.10	7.10	36.53	44.60	45.13	54.00	-8.87	AV	Vertical		
4960.225	68.47	5.21	35.52	44.21	64.99	74.00	-9.01	Pk	Horizontal		
4960.225	47.05	5.21	35.52	44.21	43.57	54.00	-10.43	AV	Horizontal		
7440.298	61.70	7.10	36.53	44.60	60.73	74.00	-13.27	Pk	Horizontal		
7440.298	45.65	7.10	36.53	44.60	44.68	54.00	-9.32	AV	Horizontal		

Note:

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

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

EUT:	Tablet	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Allen Liu

All the modulation modes have been tested, and the worst result was report as below:

the modulati	on modes	s have t	een teste	d, and the	e worst res	ult was rep	ort as be	elow:			
Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment		
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре			
	1Mbps(GFSK)-Non-hopping										
2310.00	57.41	2.97	27.80	43.80	44.38	74	-29.62	Pk	Horizontal		
2310.00	44.15	2.97	27.80	43.80	31.12	54	-22.88	AV	Horizontal		
2310.00	59.62	2.97	27.80	43.80	46.59	74	-27.41	Pk	Vertical		
2310.00	42.98	2.97	27.80	43.80	29.95	54	-24.05	AV	Vertical		
2390.00	59.41	3.14	27.21	43.80	45.96	74	-28.04	Pk	Vertical		
2390.00	43.43	3.14	27.21	43.80	29.98	54	-24.02	AV	Vertical		
2390.00	58.06	3.14	27.21	43.80	44.61	74	-29.39	Pk	Horizontal		
2390.00	42.23	3.14	27.21	43.80	28.78	54	-25.22	AV	Horizontal		
2483.50	58.15	3.58	27.70	44.00	45.43	74	-28.57	Pk	Vertical		
2483.50	43.08	3.58	27.70	44.00	30.36	54	-23.64	AV	Vertical		
2483.50	60.44	3.58	27.70	44.00	47.72	74	-26.28	Pk	Horizontal		
2483.50	42.25	3.58	27.70	44.00	29.53	54	-24.47	AV	Horizontal		
				1Mbps(GI	SK)-hopping						
2310.00	53.33	2.97	27.80	43.80	40.30	74.00	-33.70	Pk	Vertical		
2310.00	42.22	2.97	27.80	43.80	29.19	54.00	-24.81	AV	Vertical		
2310.00	52.51	2.97	27.80	43.80	39.48	74.00	-34.52	Pk	Horizontal		
2310.00	41.42	2.97	27.80	43.80	28.39	54.00	-25.61	AV	Horizontal		
2390.00	50.86	3.14	27.21	43.80	37.41	74.00	-36.59	Pk	Vertical		
2390.00	41.15	3.14	27.21	43.80	27.70	54.00	-26.30	AV	Vertical		
2390.00	53.62	3.14	27.21	43.80	40.17	74.00	-33.83	Pk	Horizontal		
2390.00	43.72	3.14	27.21	43.80	30.27	54.00	-23.73	AV	Horizontal		
2483.50	54.01	3.58	27.70	44.00	41.29	74.00	-32.71	Pk	Vertical		
2483.50	42.03	3.58	27.70	44.00	29.31	54.00	-24.69	AV	Vertical		
2483.50	50.36	3.58	27.70	44.00	37.64	74.00	-36.36	Pk	Horizontal		
2483.50	41.98	3.58	27.70	44.00	29.26	54.00	-24.74	AV	Horizontal		

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

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■ Spurious Emission in Restricted Band 3260MHz-18000MHz

EUT:	Tablet	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Allen Liu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	60.87	4.04	29.57	44.70	49.78	74	-24.22	Pk	Vertical
3260	57.43	4.04	29.57	44.70	46.34	54	-7.66	AV	Vertical
3260	62.17	4.04	29.57	44.70	51.08	74	-22.92	Pk	Horizontal
3260	56.74	4.04	29.57	44.70	45.65	54	-8.35	AV	Horizontal
3332	66.02	4.26	29.87	44.40	55.75	74	-18.25	Pk	Vertical
3332	53.25	4.26	29.87	44.40	42.98	54	-11.02	AV	Vertical
3332	63.30	4.26	29.87	44.40	53.03	74	-20.97	Pk	Horizontal
3332	53.59	4.26	29.87	44.40	43.32	54	-10.68	AV	Horizontal
17797	43.47	10.99	43.95	43.50	54.91	74	-19.09	Pk	Vertical
17797	32.24	10.99	43.95	43.50	43.68	54	-10.32	AV	Vertical
17788	43.75	11.81	43.69	44.60	54.65	74	-19.35	Pk	Horizontal
17788	32.30	11.81	43.69	44.60	43.20	54	-10.80	AV	Horizontal

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

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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:	Tablet	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Allen Liu

Test data reference attachment.

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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 30% 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:	Tablet	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.

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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.

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 ≥ 1MHz

 $VBW \ge RBW$

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.

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7.5.6 Test Results

EUT:	Tablet	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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 $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67 \text{ hops}$.
- 2. 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 (0.4×20) (s), Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

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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 ≥ 1% of the 20 dB bandwidth

 $VBW \geq RBW$

Sweep = auto

Detector function = peak

Trace = max hold

7.6.6 Test Results

EUT:	Tablet	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.

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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 ≥ 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	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

Test data reference attachment.

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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:	Tablet	Model No.:	Acer_one_10_T2
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Allen Liu

Test data reference attachment.

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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.

Test data reference attachment.

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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: 1.23dBi). 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 transmister be presented with a continuous data (or information) stream. In addition, a system employing short 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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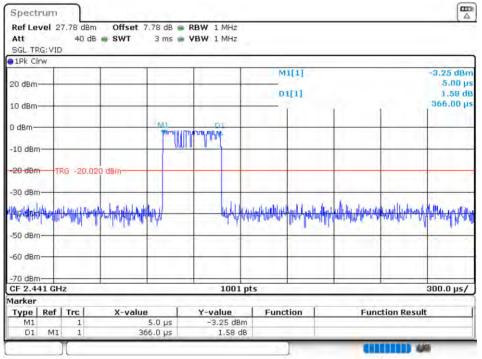
TEST RESULTS

8.1 DWELL TIME

8

Condition	Mode	Frequency	Pulse Time	Total Dwell	Period Time	Limit	Verdict
		(MHz)	(ms)	Time (ms)	(ms)	(ms)	
NVNT	1-DH1	2441	0.366	117.12	31600	400	Pass
NVNT	1-DH3	2441	1.63	260.8	31600	400	Pass
NVNT	1-DH5	2441	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2441	0.378	120.96	31600	400	Pass
NVNT	2-DH3	2441	1.63	260.8	31600	400	Pass
NVNT	2-DH5	2441	2.88	307.2	31600	400	Pass
NVNT	3-DH1	2441	0.375	120	31600	400	Pass
NVNT	3-DH3	2441	1.63	260.8	31600	400	Pass
NVNT	3-DH5	2441	2.872	306.347	31600	400	Pass

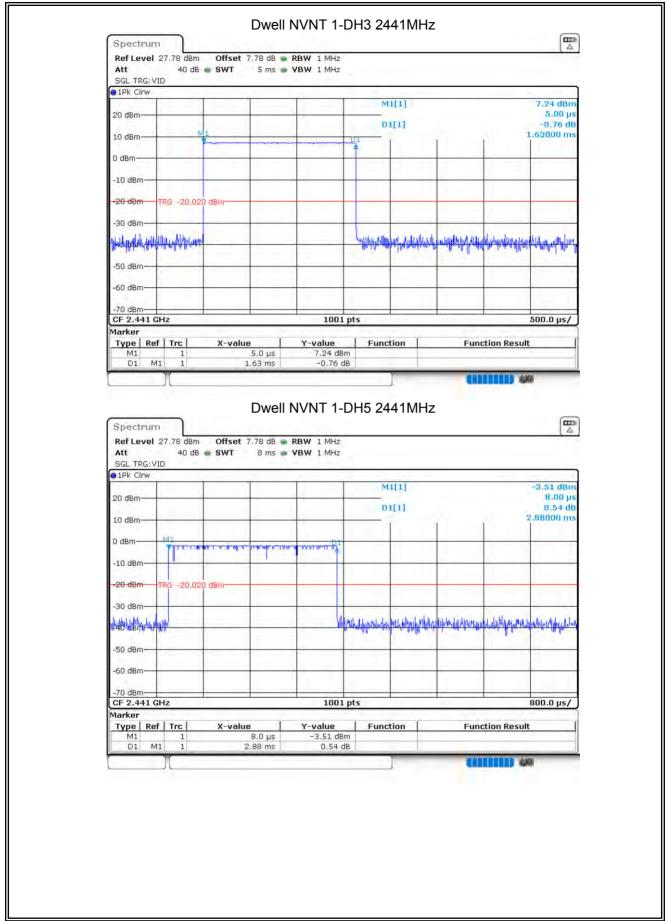
Dwell NVNT 1-DH1 2441MHz



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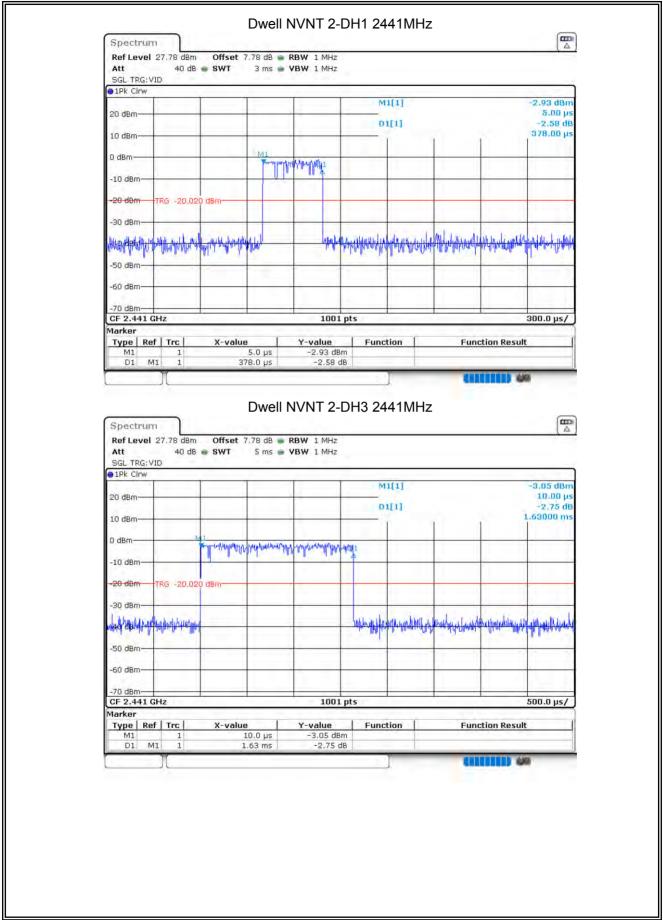




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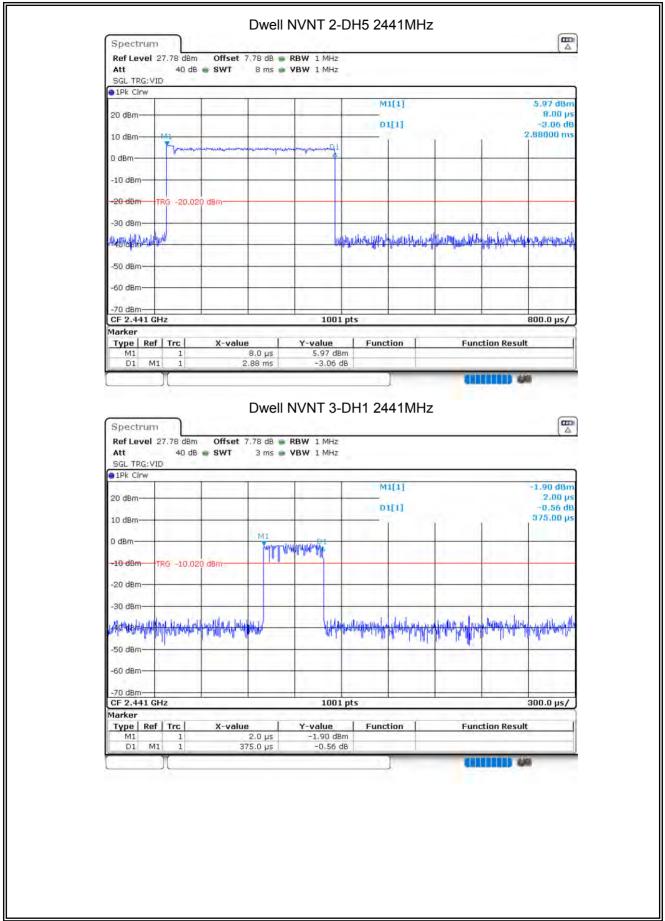




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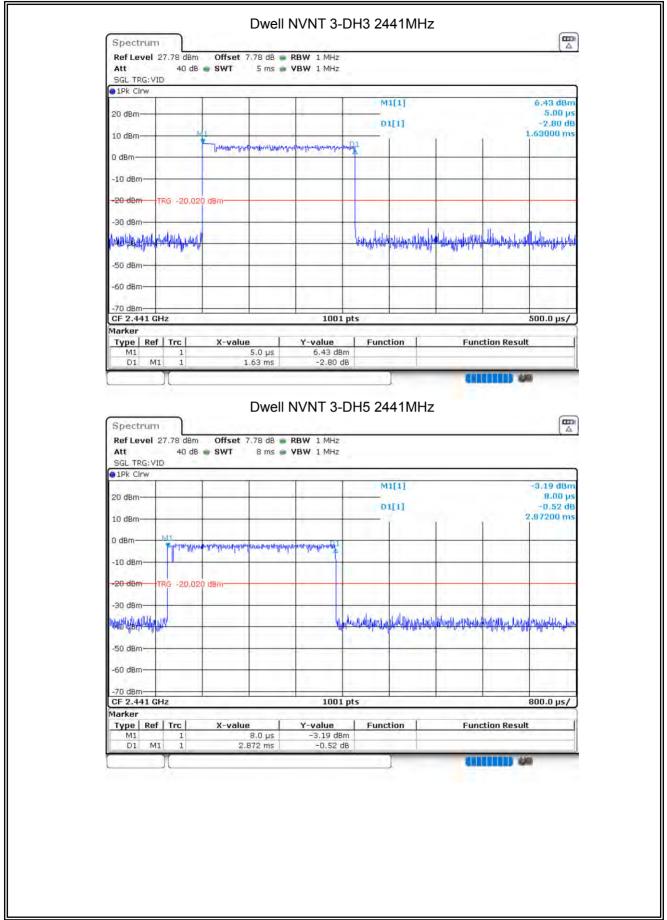




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Condition	Mode	Frequency (MHz)	Antenna	Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant 1	8.732	30	Pass
NVNT	1-DH5	2441	Ant 1	6.942	30	Pass
NVNT	1-DH5	2480	Ant 1	8.257	30	Pass
NVNT	2-DH5	2402	Ant 1	8	21	Pass
NVNT	2-DH5	2441	Ant 1	6.109	21	Pass
NVNT	2-DH5	2480	Ant 1	7.595	21	Pass
NVNT	3-DH5	2402	Ant 1	6.855	21	Pass
NVNT	3-DH5	2441	Ant 1	6.495	21	Pass
NVNT	3-DH5	2480	Ant 1	7.624	21	Pass

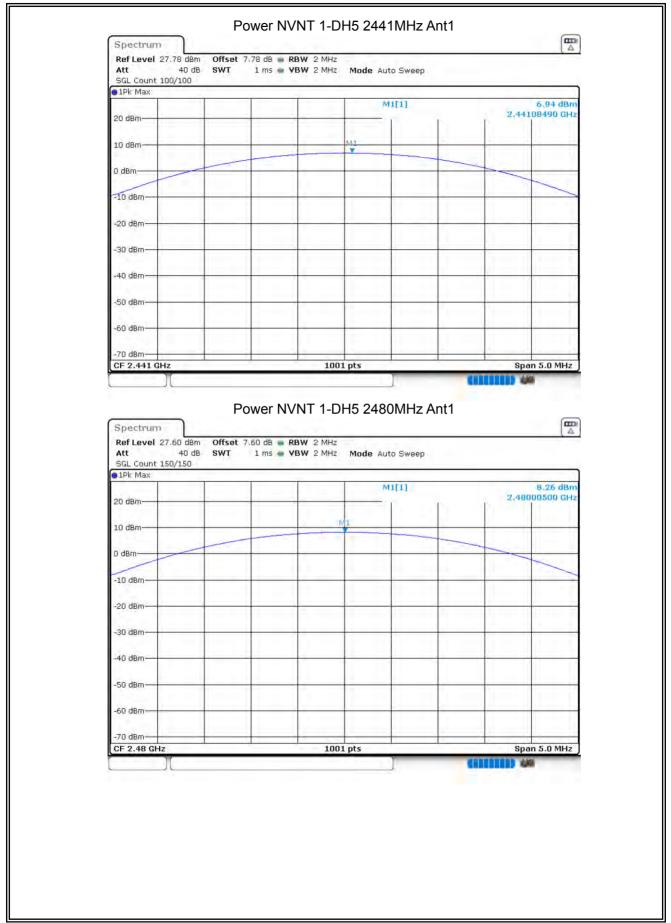
Power NVNT 1-DH5 2402MHz Ant1



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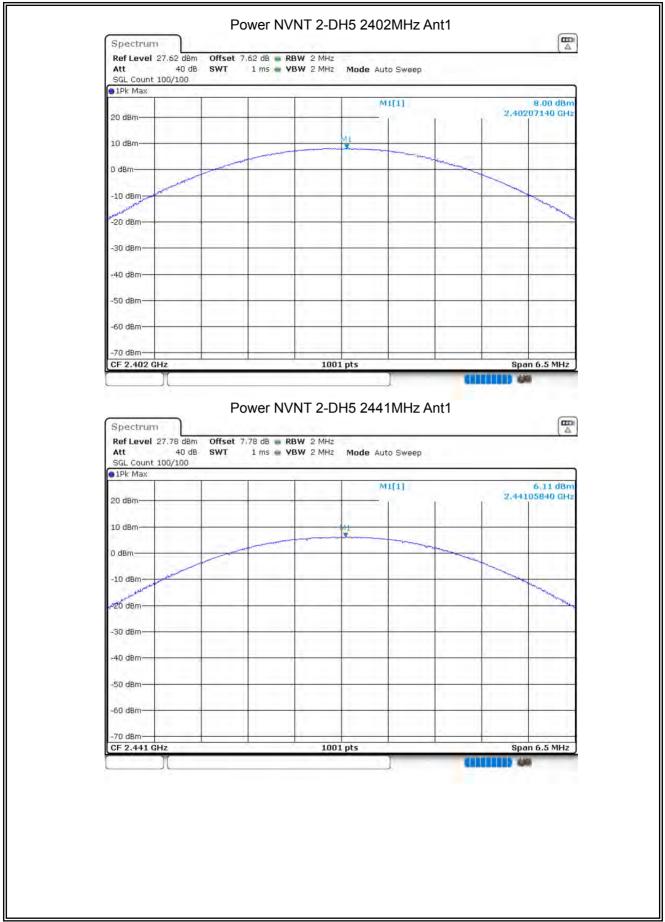




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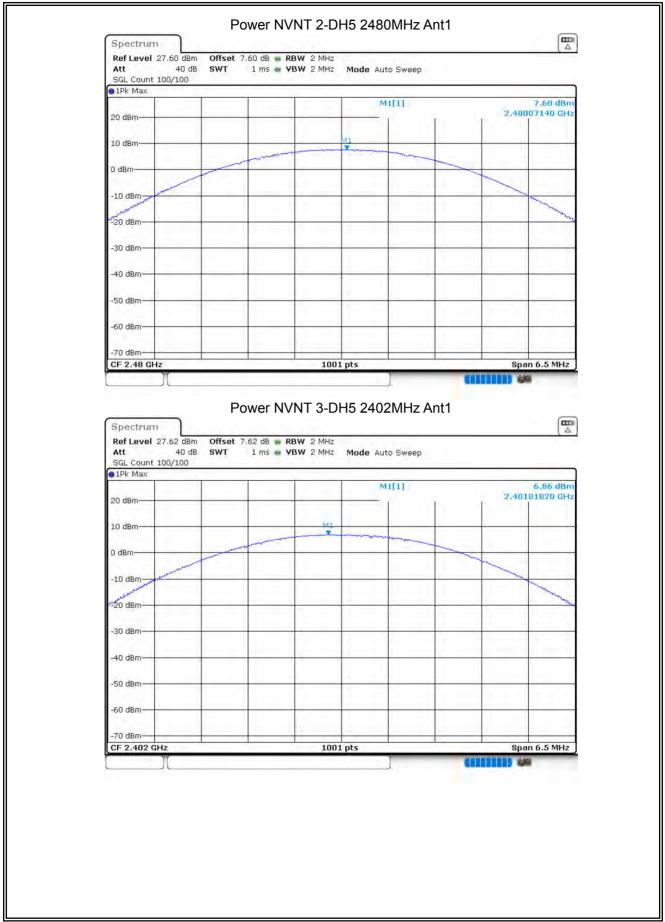




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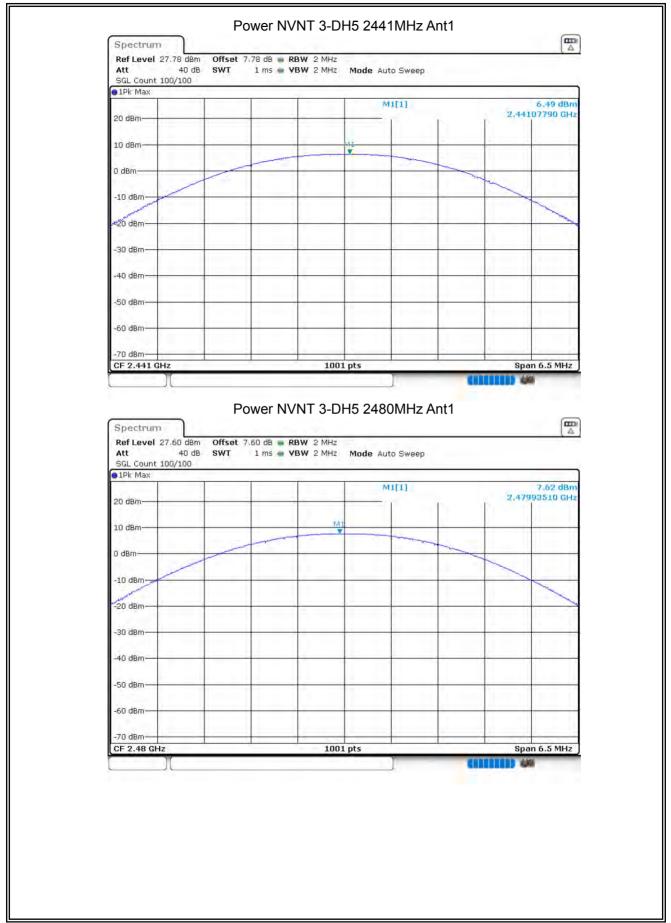




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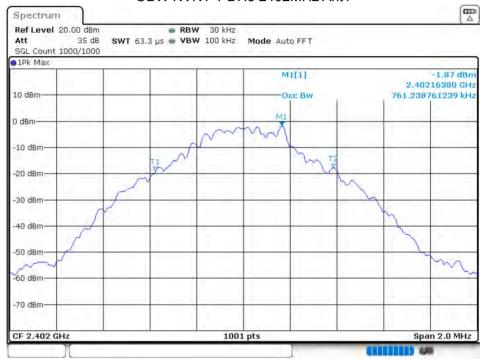


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8.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency	Antenna	99% OBW	-20 dB Bandwidth	Verdict
		(MHz)		(MHz)	(MHz)	
NVNT	1-DH5	2402	Ant 1	0.7612	0.86	Pass
NVNT	1-DH5	2441	Ant 1	0.7552	0.854	Pass
NVNT	1-DH5	2480	Ant 1	0.7572	0.858	Pass
NVNT	2-DH5	2402	Ant 1	1.1508	1.262	Pass
NVNT	2-DH5	2441	Ant 1	1.1389	1.25	Pass
NVNT	2-DH5	2480	Ant 1	1.1469	1.25	Pass
NVNT	3-DH5	2402	Ant 1	1.1528	1.25	Pass
NVNT	3-DH5	2441	Ant 1	1.1429	1.252	Pass
NVNT	3-DH5	2480	Ant 1	1.1449	1.248	Pass

OBW NVNT 1-DH5 2402MHz Ant1



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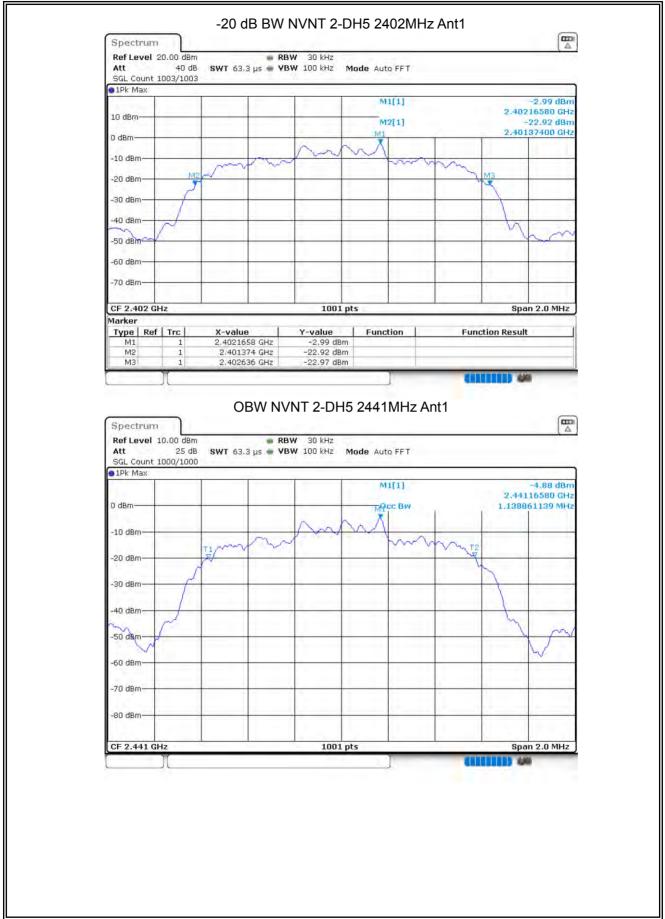




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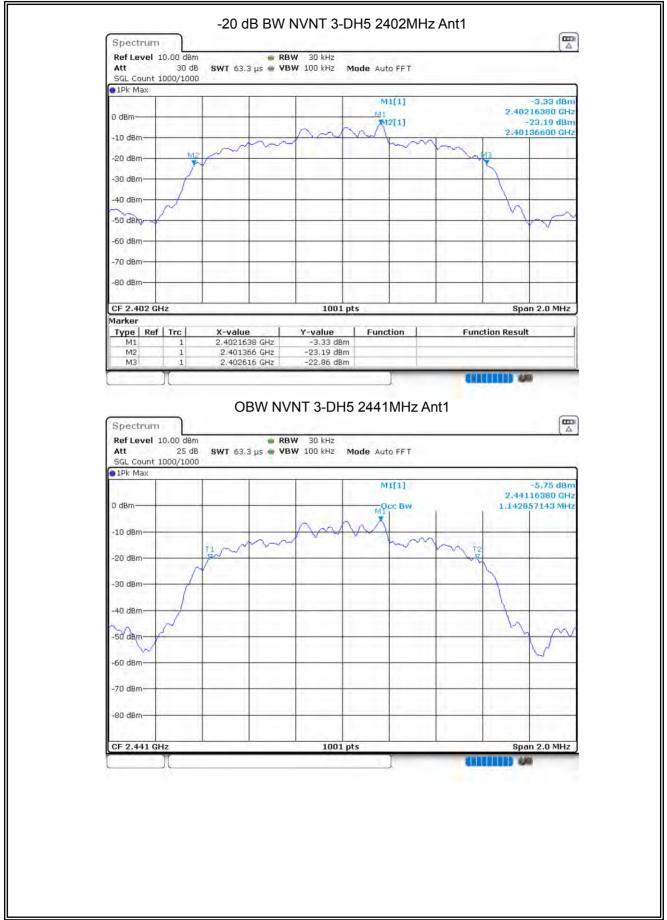




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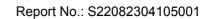
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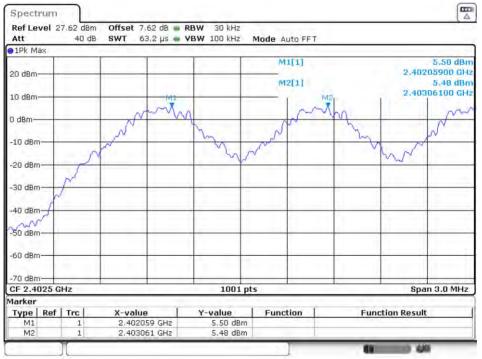




8.4 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
		(MHz)	(MHz)	(MHz)	(MHz)	
NVNT	1-DH5	2402.059	2403.061	1.002	0.86	Pass
NVNT	1-DH5	2441.059	2442.061	1.002	0.854	Pass
NVNT	1-DH5	2479.059	2480.058	0.999	0.858	Pass
NVNT	2-DH5	2402.164	2403.166	1.002	0.841	Pass
NVNT	2-DH5	2441.164	2442.166	1.002	0.833	Pass
NVNT	2-DH5	2479.014	2480.016	1.002	0.833	Pass
NVNT	3-DH5	2402.164	2403.166	1.002	0.833	Pass
NVNT	3-DH5	2441.164	2442.163	0.999	0.835	Pass
NVNT	3-DH5	2479.164	2480.163	0.999	0.832	Pass

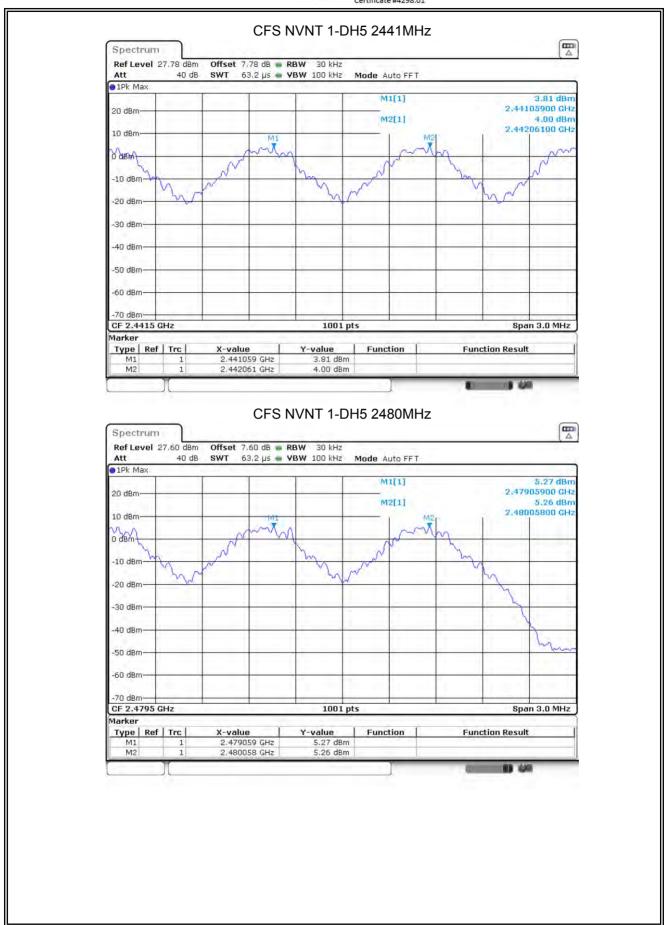
CFS NVNT 1-DH5 2402MHz



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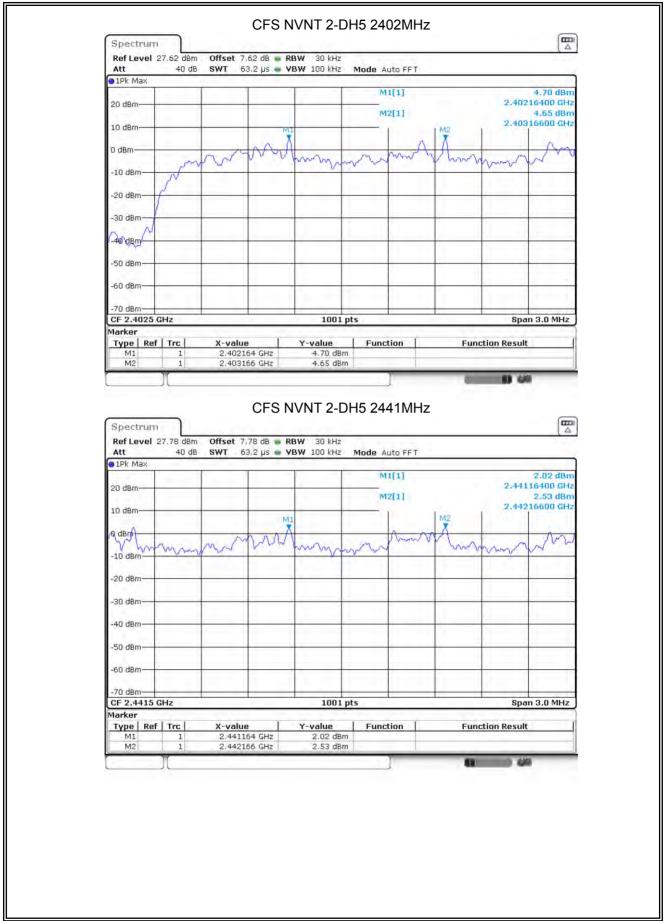




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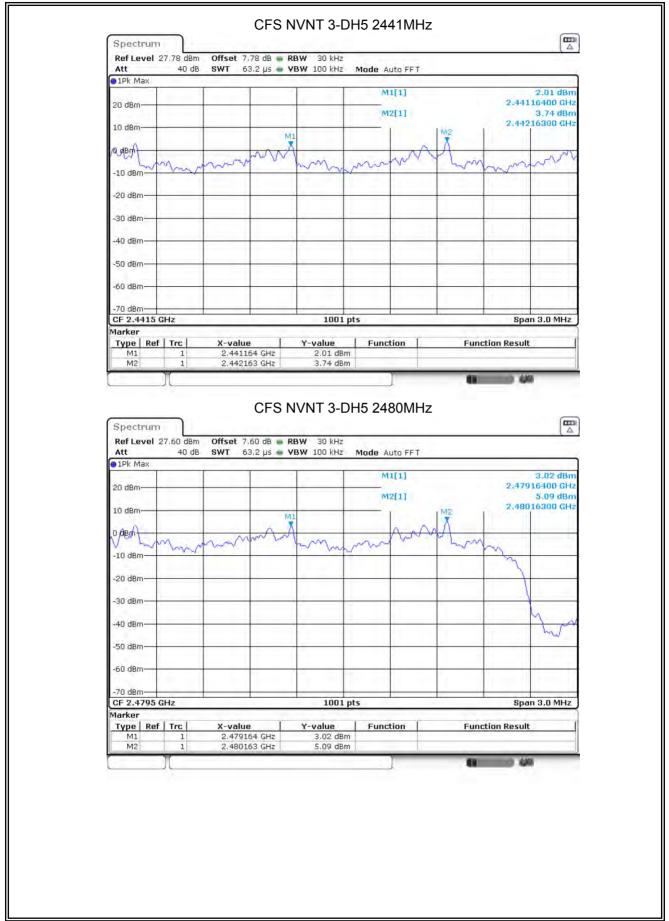




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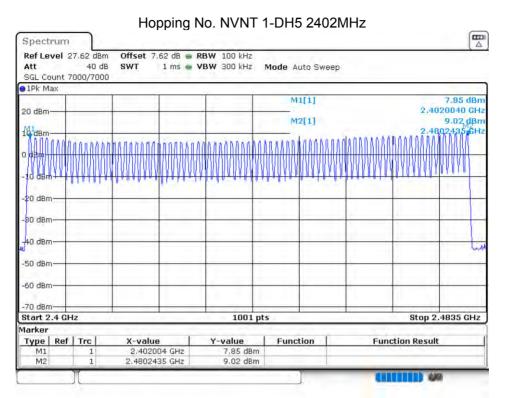
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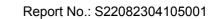




8.5 NUMBER OF HOPPING CHANNELConditionModeHopping NumberLimitVerdictNVNT1-DH57915Pass



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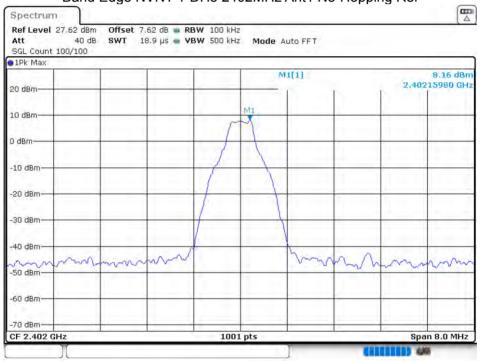






8.6 BAND E	DGE						
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-DH5	2402	Ant 1	No-Hopping	-50.03	-20	Pass
NVNT	1-DH5	2402	Ant 1	Hopping	-48.79	-20	Pass
NVNT	1-DH5	2480	Ant 1	No-Hopping	-50.62	-20	Pass
NVNT	1-DH5	2480	Ant 1	Hopping	-50.13	-20	Pass
NVNT	2-DH5	2402	Ant 1	No-Hopping	-48.35	-20	Pass
NVNT	2-DH5	2402	Ant 1	Hopping	-47.38	-20	Pass
NVNT	2-DH5	2480	Ant 1	No-Hopping	-49.02	-20	Pass
NVNT	2-DH5	2480	Ant 1	Hopping	-48.49	-20	Pass
NVNT	3-DH5	2402	Ant 1	No-Hopping	-47.74	-20	Pass
NVNT	3-DH5	2402	Ant 1	Hopping	-46.5	-20	Pass
NVNT	3-DH5	2480	Ant 1	No-Hopping	-49.16	-20	Pass
NVNT	3-DH5	2480	Ant 1	Hopping	-48.76	-20	Pass

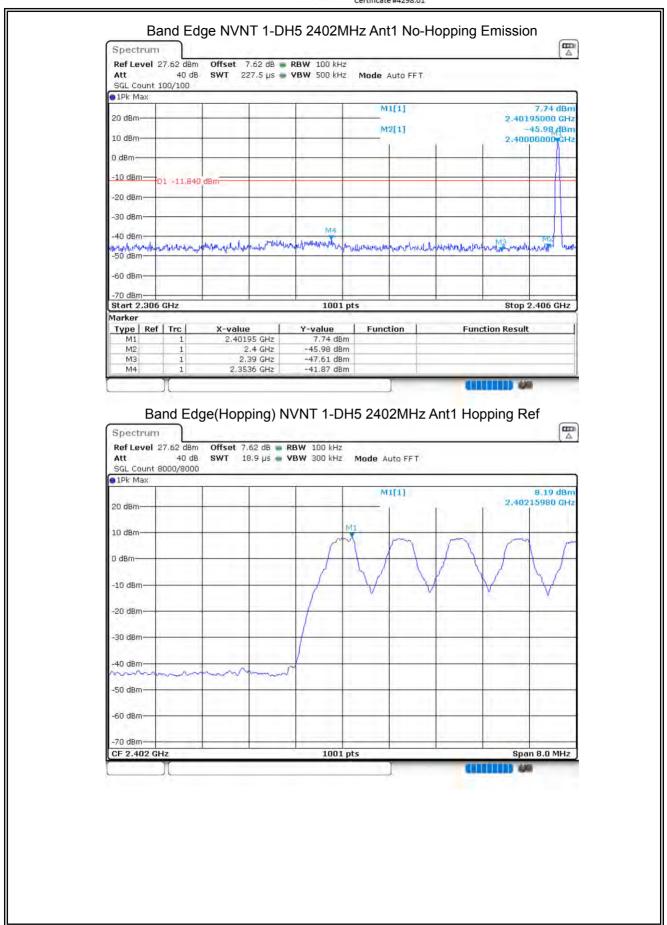
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



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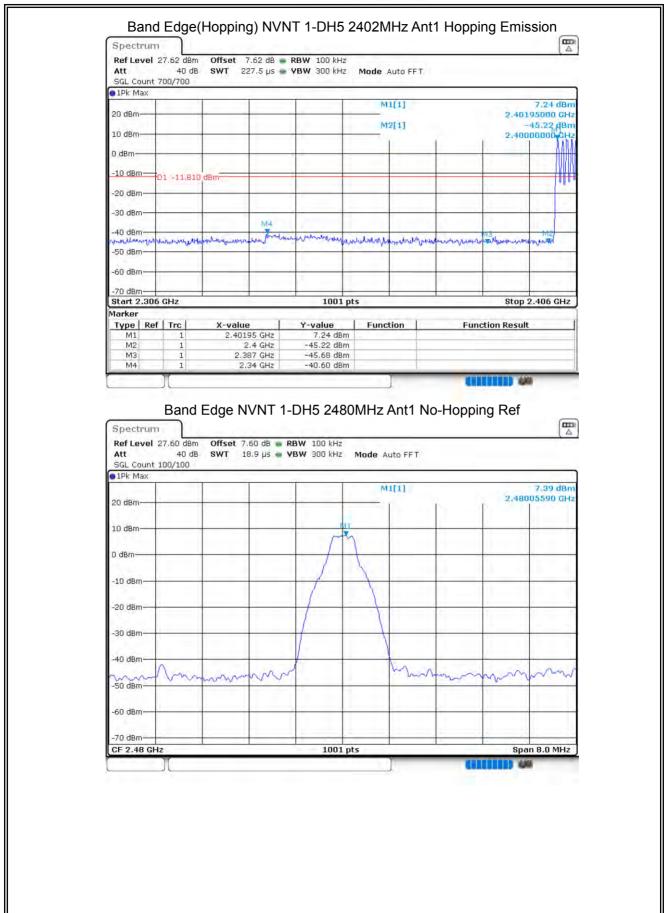




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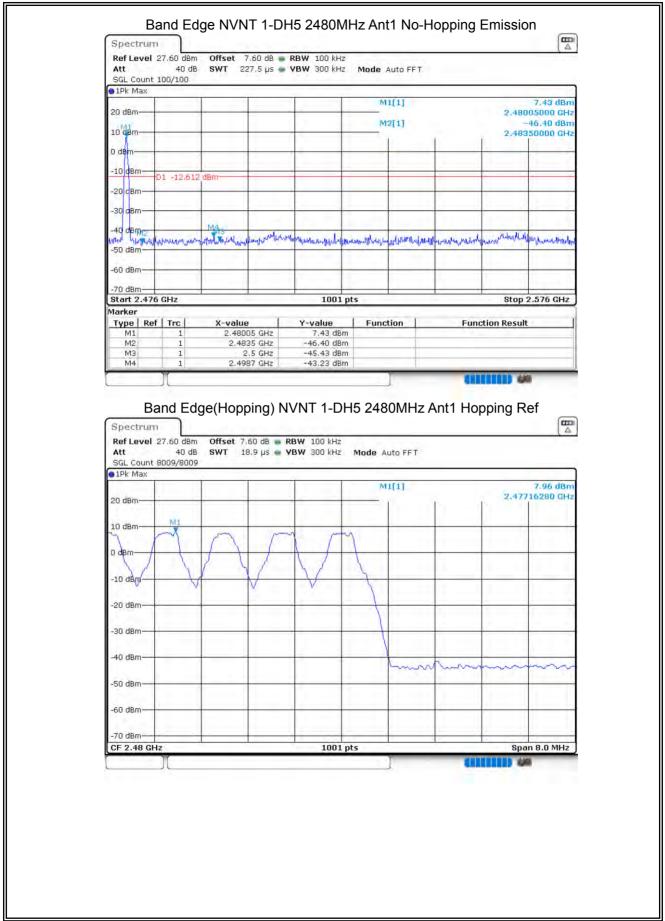




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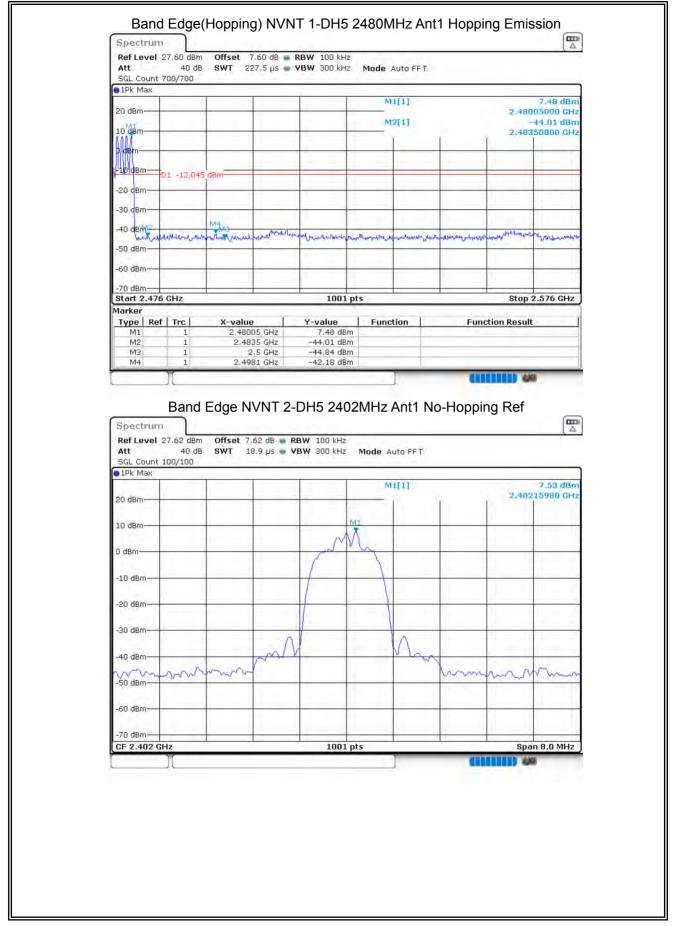




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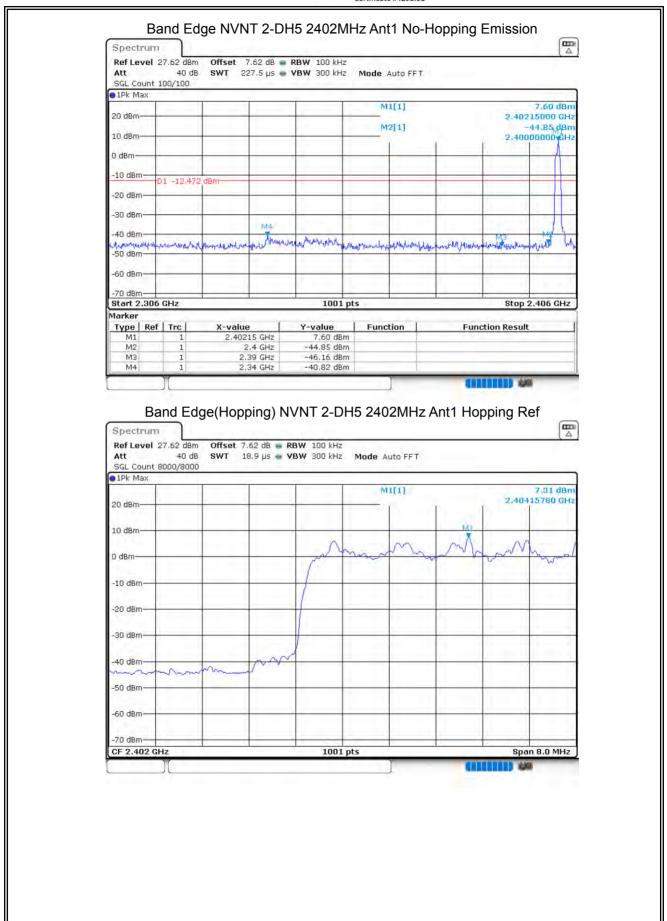




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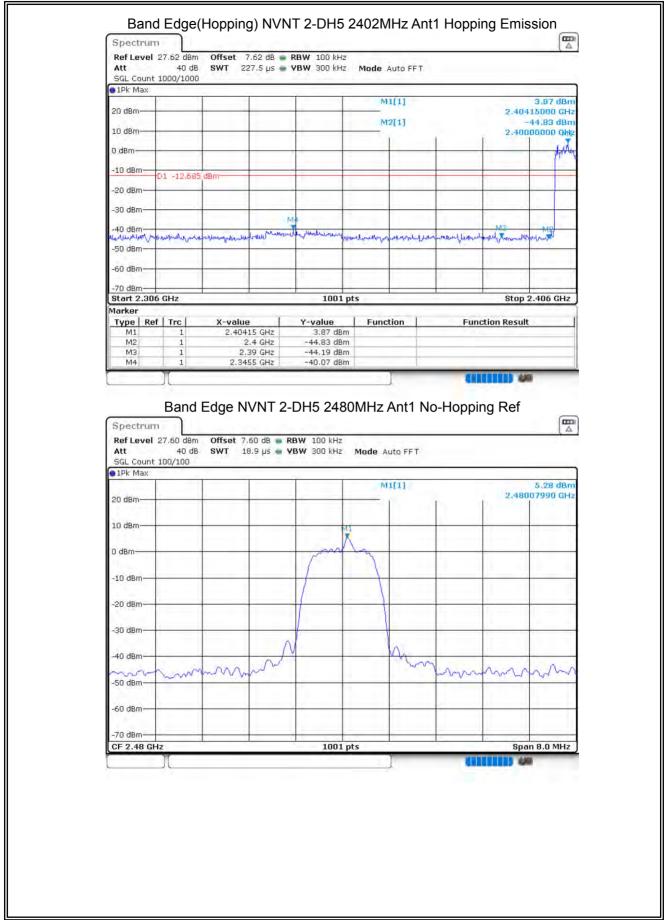




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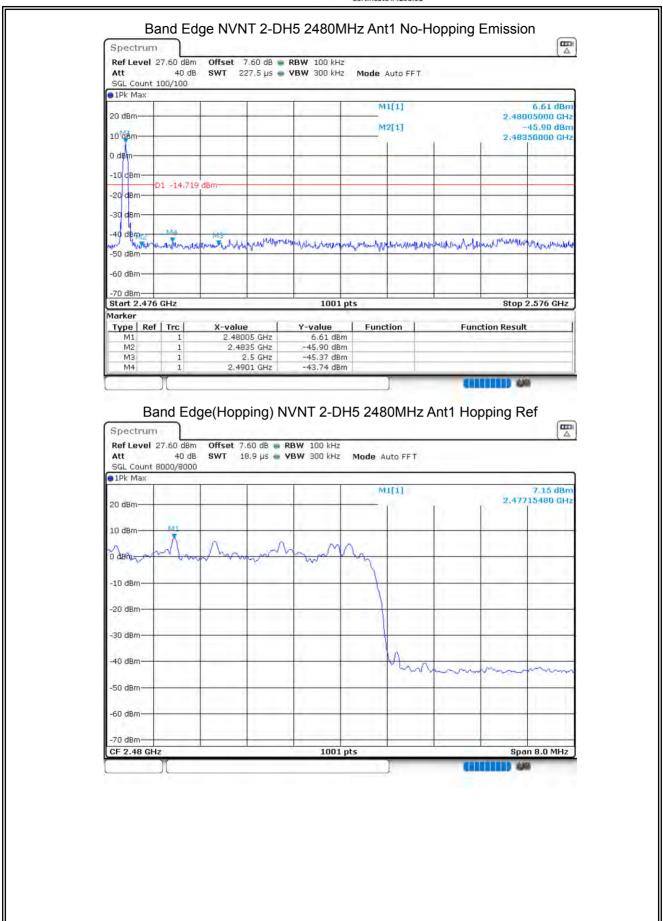




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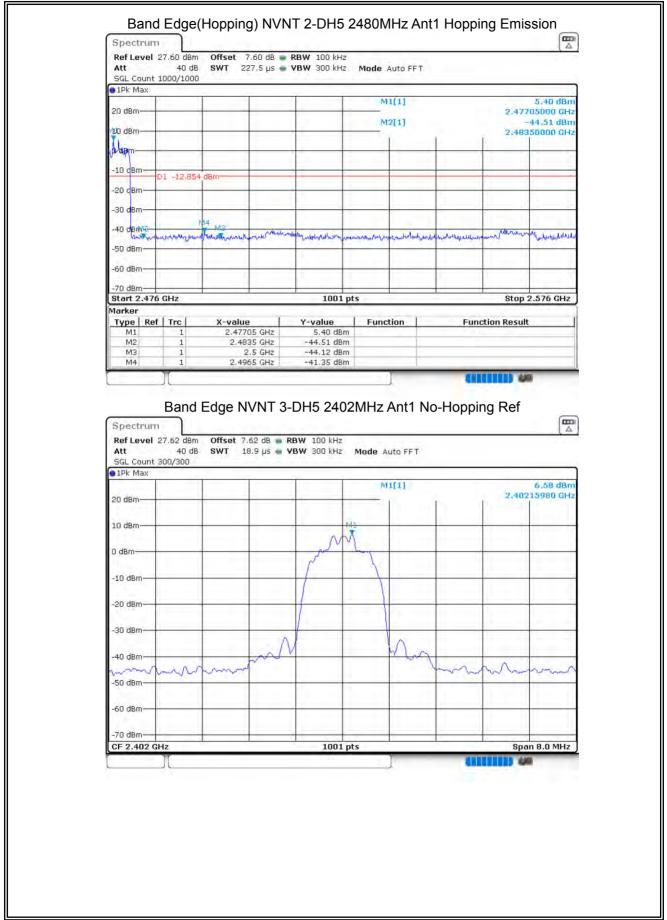




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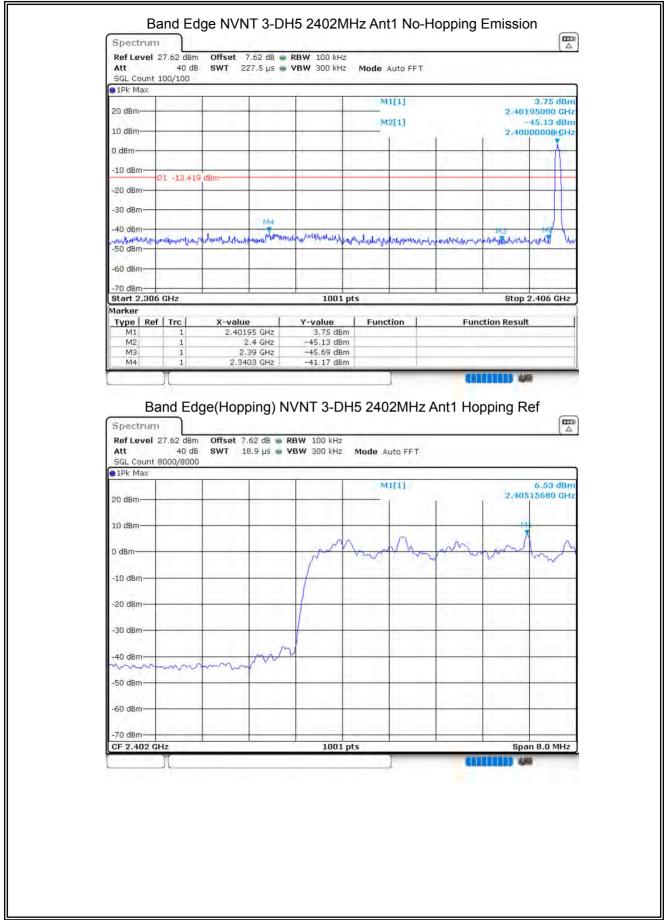




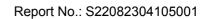
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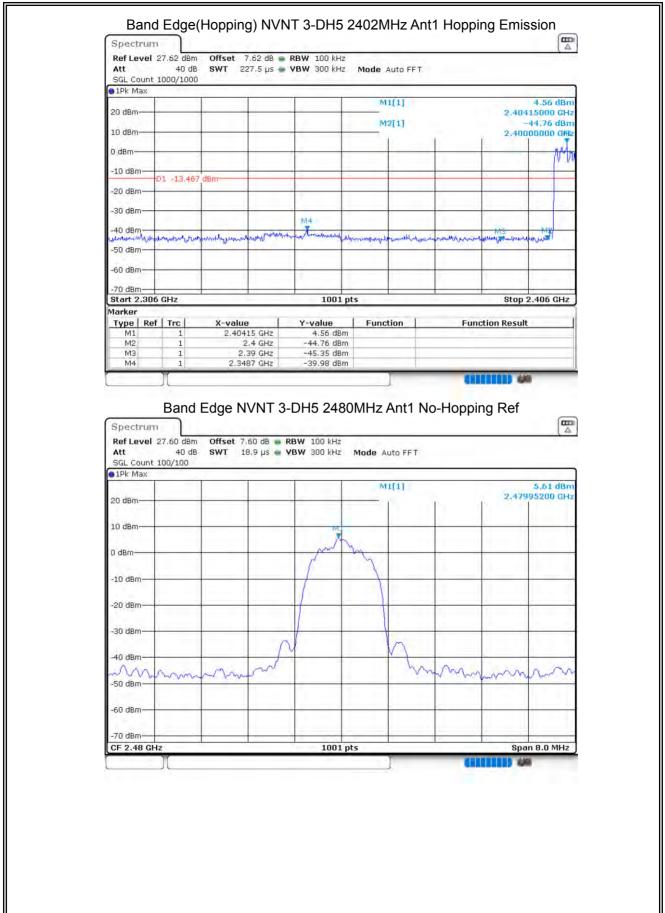


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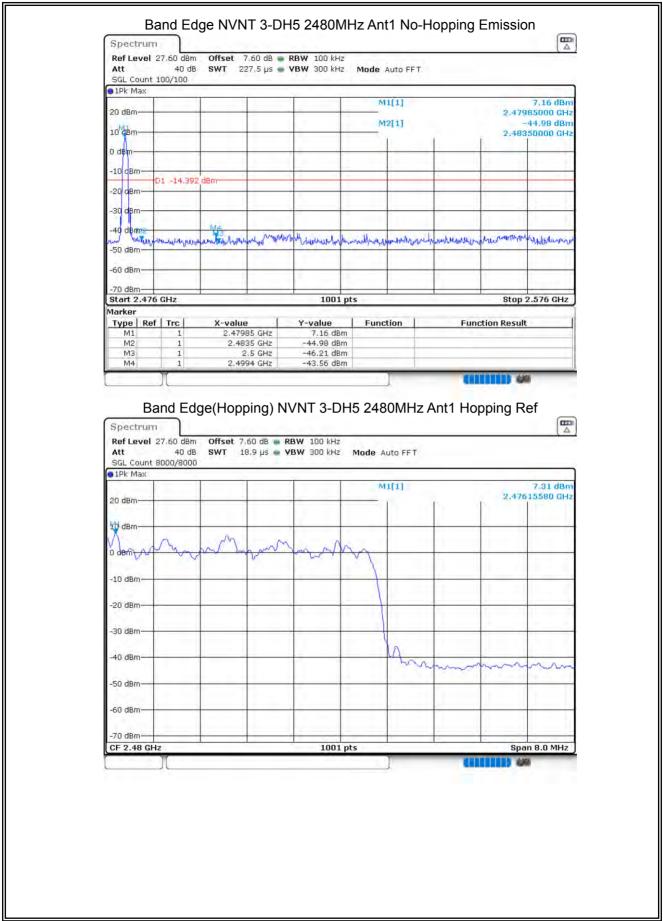




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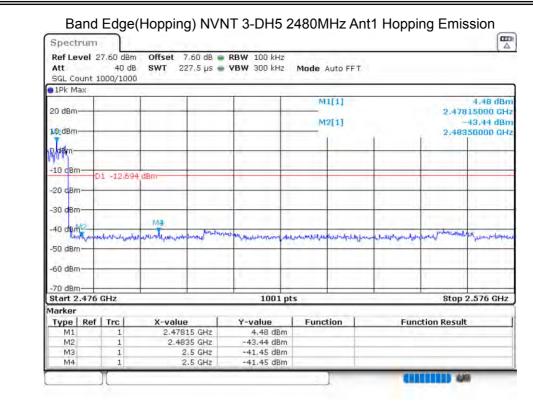




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8.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	-48.22	-20	Pass
NVNT	1-DH5	2441	Ant 1	-54.65	-20	Pass
NVNT	1-DH5	2480	Ant 1	-55.19	-20	Pass
NVNT	2-DH5	2402	Ant 1	-48.16	-20	Pass
NVNT	2-DH5	2441	Ant 1	-58.11	-20	Pass
NVNT	2-DH5	2480	Ant 1	-53.6	-20	Pass
NVNT	3-DH5	2402	Ant 1	-40.77	-20	Pass
NVNT	3-DH5	2441	Ant 1	-56.61	-20	Pass
NVNT	3-DH5	2480	Ant 1	-57.97	-20	Pass

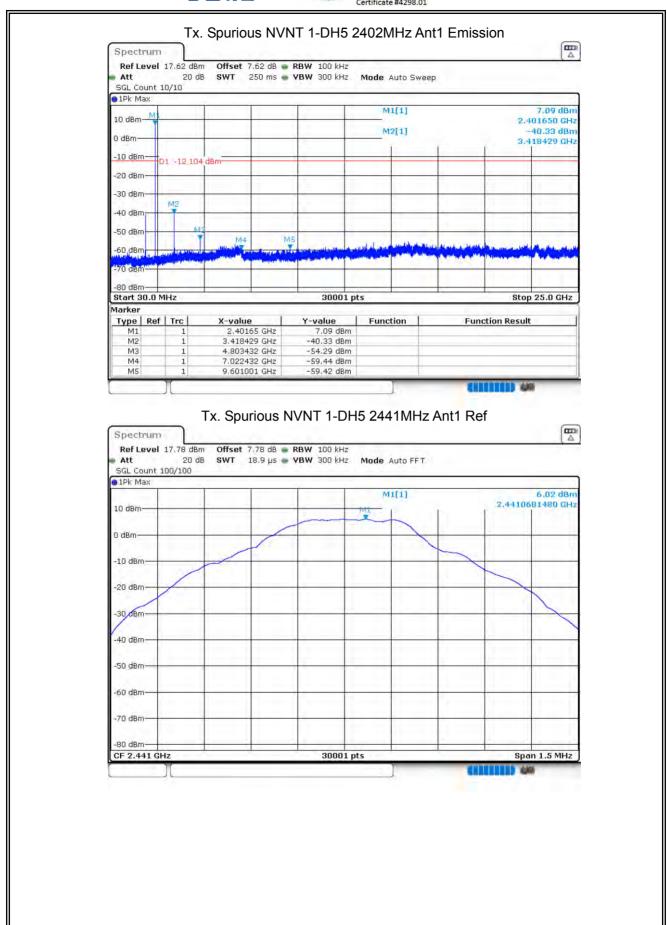
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



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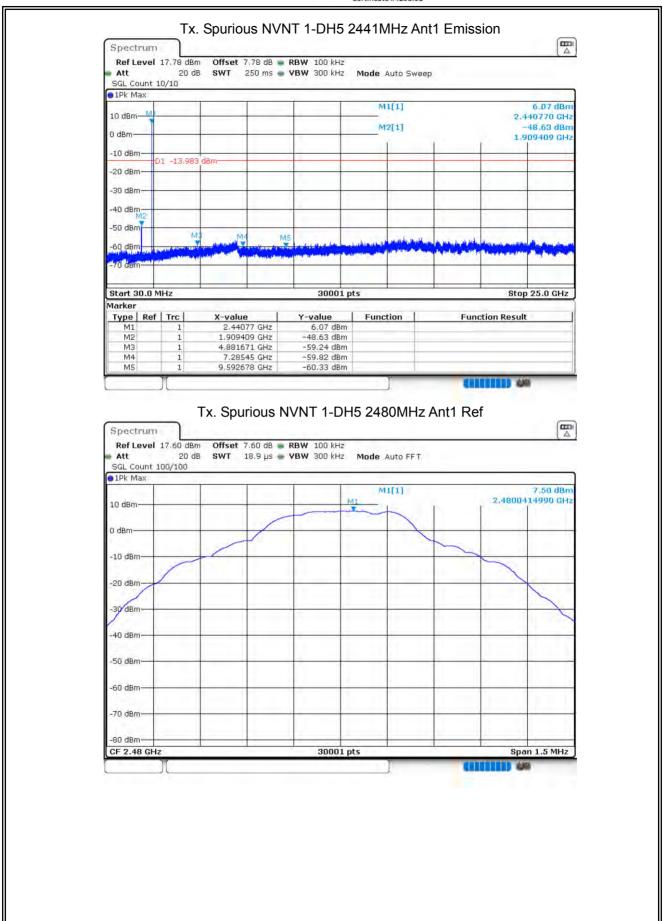




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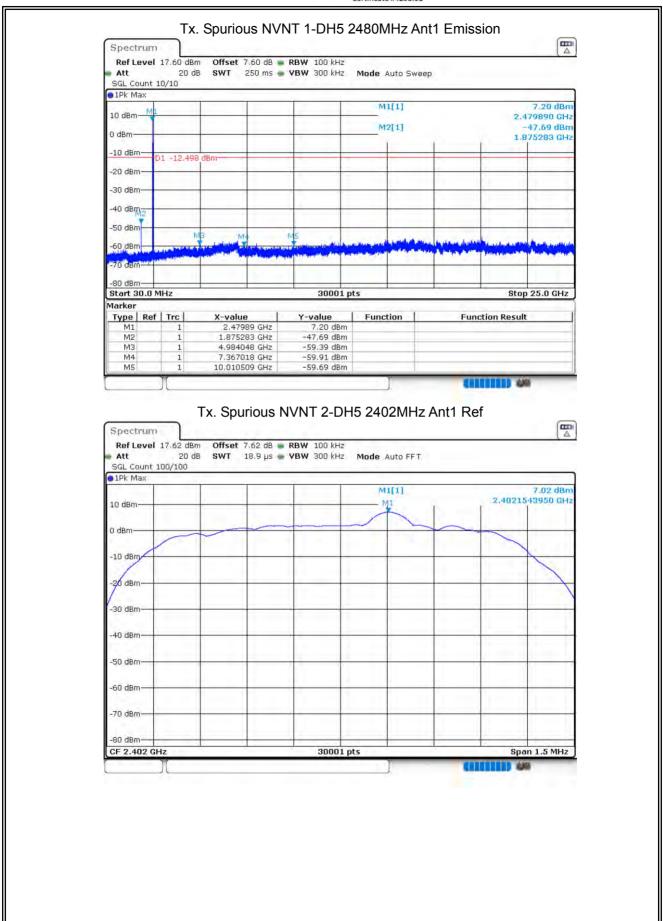




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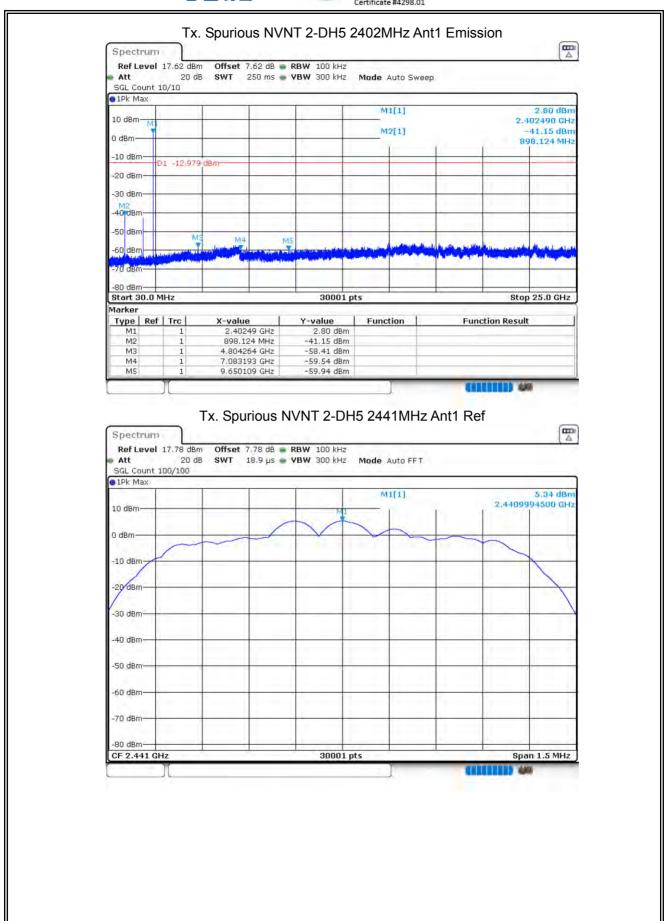




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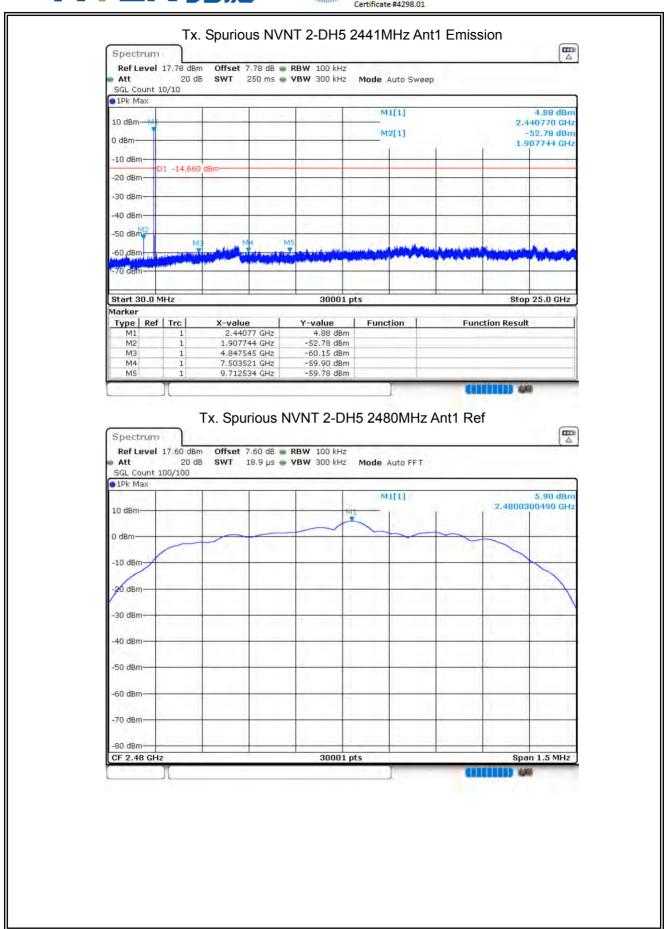




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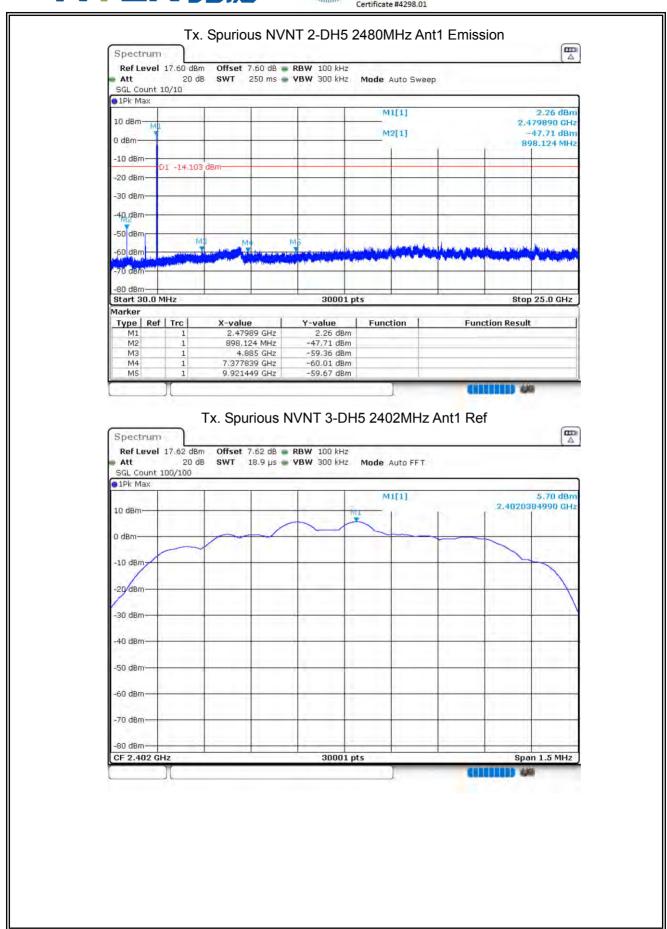




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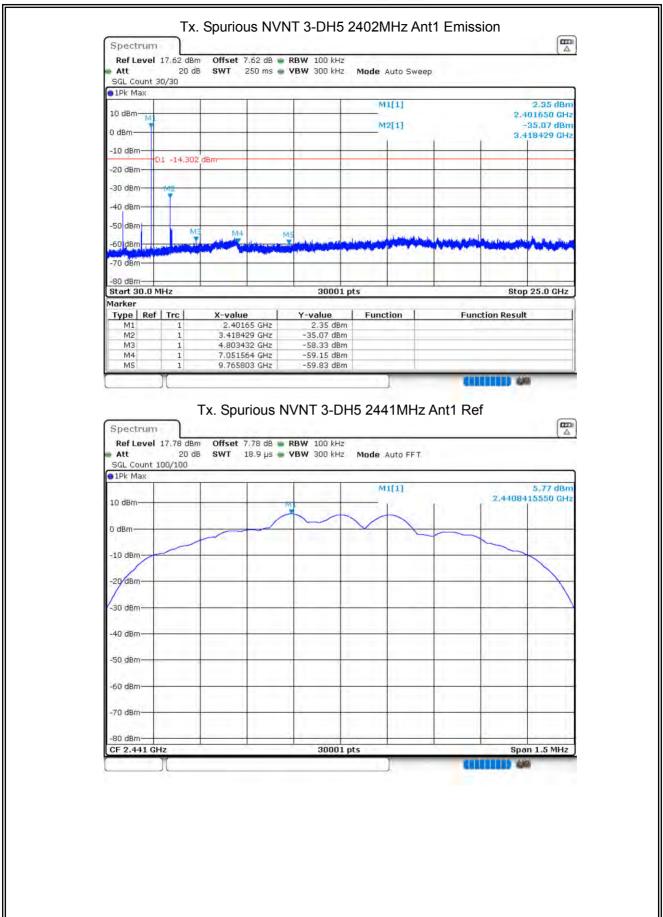




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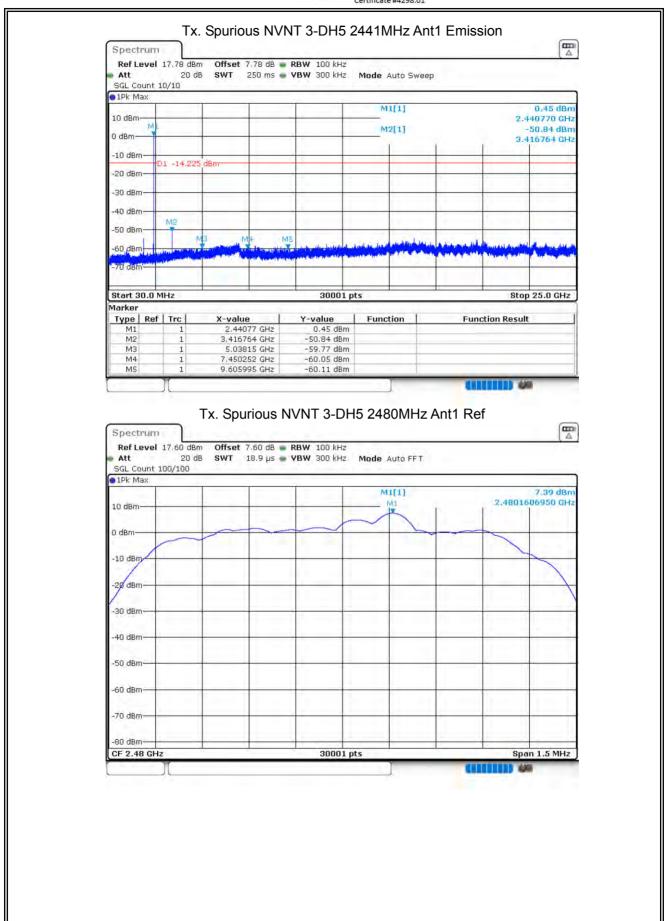




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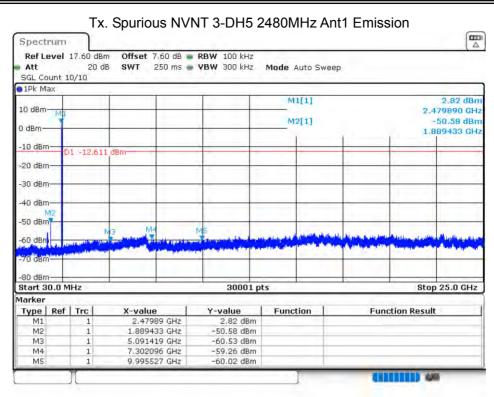




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END OF REPORT

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