



RADIO TEST REPORT FCC ID: 2AX4YN55

Product:Smart PhoneTrade Mark:DOOGEEModel No.:N55Family Model:N55 Pro, N55S, N55E, N55 SE, N55Plus, N55 Max, N55 UltraReport No.:S24031407607001Issue Date:Apr 07, 2024

Prepared for

Shenzhen DOOGEE Hengtong Technology CO.,LTD

B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22,Longhua New District,Shenzhen,China

Prepared by

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





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1 TEST RESULT CERTIFICATION

Applicant's name	Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22,Longhua New District,Shenzhen,China
Manufacturer's Name	Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No.22,Longhua New District,Shenzhen,China
Product description	
Product name:	Smart Phone
Model and/or type reference:	N55
Family Model:	N55 Pro, N55S, N55E, N55 SE, N55 Plus, N55 Max, N55 Ultra
Test sample number	S240314076007
Date of Test	Mar 18, 2024 ~ Apr 02, 2024

Measurement Procedure Used:

APPLICABLE STANDARDS

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

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

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

Prepared By Allen Liu Reviewed By Aaron Cheng Approved : Alex Li By : Alex Li (Project Engineer) (Supervisor) (Manager)



SUMMARY OF TEST RESULTS າ

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

Remark:

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





3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

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

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A. CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705. Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

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

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



4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	Smart Phone		
Trade Mark	DOOGEE		
FCC ID	2AX4YN55		
Model No.	N55		
Family Model	N55 Pro, N55S, N55E, N55 SE, N55 Plus, N55 Max, N55 Ultra		
Model Difference	All models are the same circuit and RF module, except the model name.		
Operating Frequency	2402MHz~2480MHz		
Modulation	GFSK, π/4-DQPSK, 8-DPSK		
Number of Channels	79 Channels		
Antenna Type	PIFA Antenna		
Antenna Gain	2.11dBi		
Adapter	Model: DGCDQ-BC023-02 Input: AC100-240V~50/60Hz 0.35A Max Output: 5.0V2.0A 10.0W Power: 10.0W Max		
Battery	DC 3.87V, 5150 mAh		
Power supply	DC 3.87V from battery or DC 5V from adapter		
HW Version	N/A		
SW 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

Revision history					
Report No.	Version	Description	Issued Date		
S24031407607001	Rev.01	Initial issue of report	Apr 07, 2024		





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 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	
Nata AO manuan lina O	late. AQ e superline Que duste d'Ensiente une teste due des menimeurs entruite super	

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)

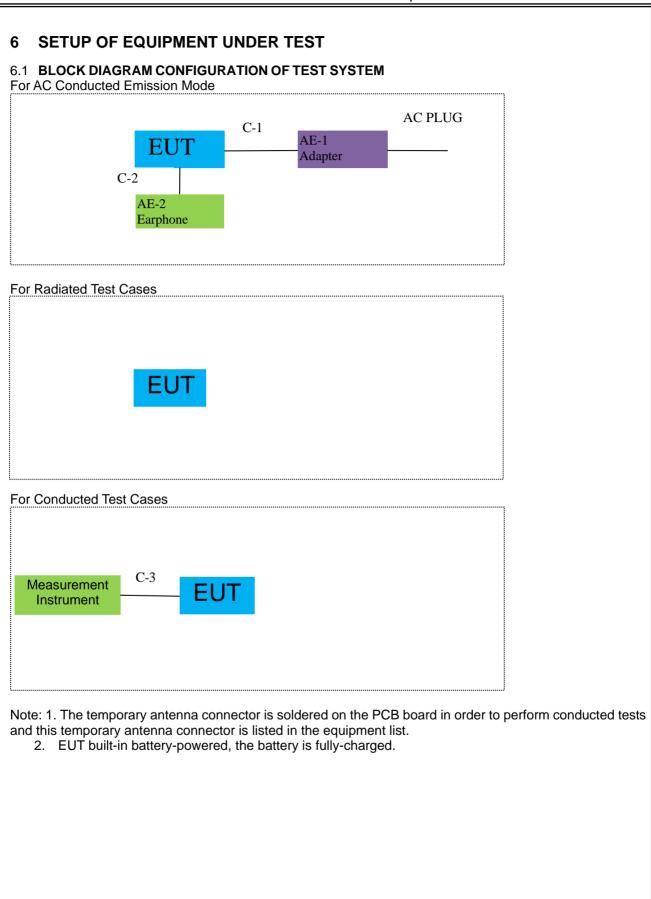
Note: For radiated test cases, the worst mode data rate 3Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

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 continuously transmitting mode.











6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Model/Type No.	Series No.	Note
	Smart Phone	N55	N/A	EUT
AE-1	Adapter	DGCDQ-BC023-02	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	Earphone Cable	NO	NO	1.2m
C-3	RF Cable	YES	NO	0.1m

Notes:

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

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

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Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2024.03.12	2025.03.11	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.03.12	2025.03.11	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.03.12	2025.03.11	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.03.11	2025.03.10	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2024.03.12	2025.03.11	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2023.05.29	2024.05.28	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	2023.05.29	2024.05.28	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2023.05.29	2024.05.28	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	2023.05.29	2024.05.28	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 Conduction Test equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2024.03.12	2025.03.11	1 year
2	LISN	R&S	ENV216	101313	2024.03.12	2025.03.11	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.03.12	2025.03.11	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

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

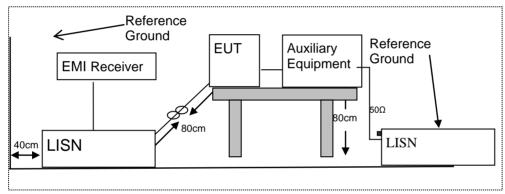
	Conducted	Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

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.





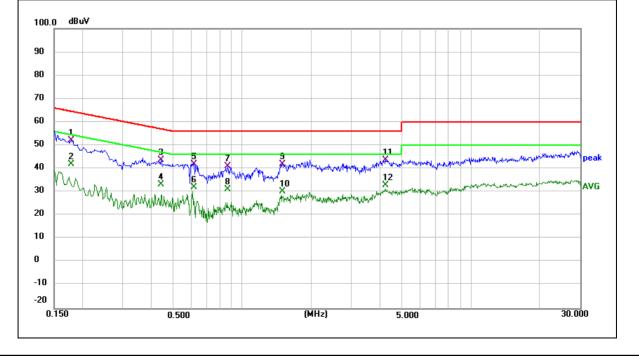
7.1.5 Test Results

EUT:	Smart Phone	Model Name :	N55
Temperature:	24 °C	Relative Humidity:	54%
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
0.1780	42.05	9.99	52.04	64.58	-12.54	QP
0.1780	32.03	9.99	42.02	54.58	-12.56	AVG
0.4420	33.27	10.53	43.80	57.02	-13.22	QP
0.4420	22.72	10.53	33.25	47.02	-13.77	AVG
0.6140	31.20	10.87	42.07	56.00	-13.93	QP
0.6140	21.15	10.87	32.02	46.00	-13.98	AVG
0.8660	29.69	11.40	41.09	56.00	-14.91	QP
0.8660	19.72	11.40	31.12	46.00	-14.88	AVG
1.5020	29.22	12.66	41.88	56.00	-14.12	QP
1.5020	17.59	12.66	30.25	46.00	-15.75	AVG
4.2300	33.95	9.67	43.62	56.00	-12.38	QP
4.2300	23.36	9.67	33.03	46.00	-12.97	AVG

Remark:

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







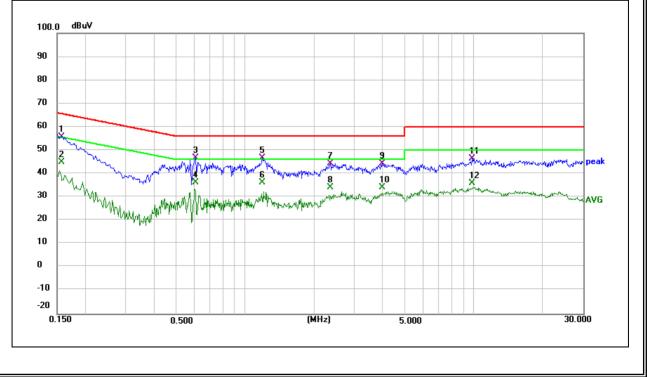
EUT:	Smart Phone	Model Name :	N55
Temperature:	24 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	45.74	9.95	55.69	65.57	-9.88	QP
0.1580	35.07	9.95	45.02	55.57	-10.55	AVG
0.6060	35.95	10.87	46.82	56.00	-9.18	QP
0.6060	25.25	10.87	36.12	46.00	-9.88	AVG
1.1860	34.69	12.04	46.73	56.00	-9.27	QP
1.1860	24.29	12.04	36.33	46.00	-9.67	AVG
2.3460	34.68	9.66	44.34	56.00	-11.66	QP
2.3460	24.46	9.66	34.12	46.00	-11.88	AVG
3.9700	34.65	9.67	44.32	56.00	-11.68	QP
3.9700	24.58	9.67	34.25	46.00	-11.75	AVG
9.8540	36.75	9.69	46.44	60.00	-13.56	QP
9.8540	26.33	9.69	36.02	50.00	-13.98	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.







7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

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

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	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

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

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.



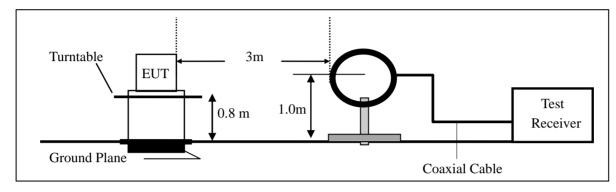


7.2.3 Measuring Instruments

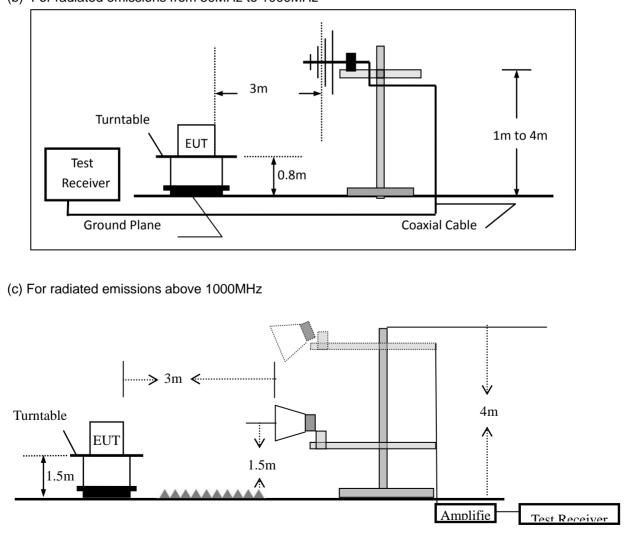
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz



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





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.
- 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 t	During the radiated emission test, the Spectrum Analyzer was set with the following configurations:								
Freq	uency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth					
	30 to 1000	QP	120 kHz	300 kHz					
1									

Above 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz
Note: for the frequency range	s below 30 MHz a n	arrower RRW is used for the	se ranges but the measured

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 30MH	lz)
---	-----

EUT:	Smart Phone	Model No.:	N55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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

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





Spurious Emission below 1GHz (30MHz to 1GHz)

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

EUT:	Smart Phone	Model Name :	N55
Temperature:	24 ℃	Relative Humidity:	53%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.87V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	40.7016	4.69	20.48	25.17	40.00	-14.83	QP
V	137.9028	10.52	18.59	29.11	43.50	-14.39	QP
V	291.0360	5.88	20.03	25.91	46.00	-20.09	QP
V	343.1800	5.23	21.45	26.68	46.00	-19.32	QP
V	597.2234	6.40	26.37	32.77	46.00	-13.23	QP
V	872.1832	6.09	30.43	36.52	46.00	-9.48	QP

Remark:











Polar	Frequency Meter Factor Emission Lin		Limits	Margin	Remark		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	38.7517	4.45	21.55	26.00	40.00	-14.00	QP
Н	85.8983	4.60	16.07	20.67	40.00	-19.33	QP
Н	133.6188	6.39	18.67	25.06	43.50	-18.44	QP
Н	324.4560	5.86	20.57	26.43	46.00	-19.57	QP
Н	489.0268	5.81	24.75	30.56	46.00	-15.44	QP
Н	801.7863	5.94	29.57	35.51	46.00	-10.49	QP
Emissio 80.0	n Level= Met dBuV/m	er Reading+	Factor, Marg	in= Emission L	_evel - Limit		
70							
60							
50							
40						6	miles plant
30 Min	WWW Law Berry		3		When The arm we want and a start the	- Handburn market for the second	
20	With Martin	Anna and the and the state	www.www.www.www.www.	how had a north the second			
10							
0.0							





UT:	Smar	t Phone		Model	No.:	N55			
emperature:	20 ℃			Relative Humidity: 48%		48%			
Fest Mode:	Test By	/:	Aller	n Liu					
Il the modulat	ion modes	have be	en tested,	and the w	orst result	t was repo	ort as belo	w:	
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)	V/m) (dB)		
			Low Chanr	nel (2402 M	Hz)(GFSK)/	Above 1G			
4804.214	64.14	5.21	35.59	44.30	60.64	74.00	-13.36	Pk	Vertical
4804.214	41.77	5.21	35.59	44.30	38.27	54.00	-15.73	AV	Vertical
7206.265	61.49	6.48	36.27	44.60	59.64	74.00	-14.36	Pk	Vertical
7206.265	43.52	6.48	36.27	44.60	41.67	54.00	-12.33	AV	Vertical
4804.109	61.29	5.21	35.55	44.30	57.75	74.00	-16.25	Pk	Horizontal
4804.109	42.38	5.21	35.55	44.30	38.84	54.00	-15.16	AV	Horizontal
7206.224	62.82	6.48	36.27	44.52	61.05	74.00	-12.95	Pk	Horizontal
7206.224	47.61	6.48	36.27	44.52	45.84	54.00	-8.16	AV	Horizontal
		1	Mid Chanr	nel (2441 MI	Hz)(GFSK)/	Above 1G		T	0
4882.396	63.22	5.21	35.66	44.20	59.89	74.00	-14.11	Pk	Vertical
4882.396	43.76	5.21	35.66	44.20	40.43	54.00	-13.57	AV	Vertical
7323.241	61.37	7.10	36.50	44.43	60.54	74.00	-13.46	Pk	Vertical
7323.241	47.64	7.10	36.50	44.43	46.81	54.00	-7.19	AV	Vertical
4882.108	61.12	5.21	35.66	44.20	57.79	74.00	-16.21	Pk	Horizontal
4882.108	48.54	5.21	35.66	44.20	45.21	54.00	-8.79	AV	Horizontal
7323.132	61.67	7.10	36.50	44.43	60.84	74.00	-13.16	Pk	Horizontal
7323.132	42.75	7.10	36.50	44.43	41.92	54.00	-12.08	AV	Horizontal
		T	High Chanr	nel (2480 M	Hz)(GFSK)	Above 1G	1	1	
4960.397	65.97	5.21	35.52	44.21	62.49	74.00	-11.51	Pk	Vertical
4960.397	42.64	5.21	35.52	44.21	39.16	54.00	-14.84	AV	Vertical
7440.201	62.21	7.10	36.53	44.60	61.24	74.00	-12.76	Pk	Vertical
7440.201	44.74	7.10	36.53	44.60	43.77	54.00	-10.23	AV	Vertical
4960.225	67.22	5.21	35.52	44.21	63.74	74.00	-10.26	Pk	Horizontal
4960.225	47.35	5.21	35.52	44.21	43.87	54.00	-10.13	AV	Horizontal
7440.298	60.83	7.10	36.53	44.60	59.86	74.00	-14.14	Pk	Horizontal
7440.298	45.76	7.10	36.53	44.60	44.79	54.00	-9.21	AV	Horizontal

Note:

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





UT		mission in l Smart Phon			Model			55		
						48%				
	-	Mode2/ Mode3/ Mode3/ Mode3/	404		Test B	•	,	len Liu		
		ation modes		en tested					NOM.	
, ui t	Frequency	Motor	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	•	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/r	n) (dB)	Туре	
				11	lbps(GFSK)-Non-hoppir	ng			
	2310.00	58.61	2.97	27.80	43.80	45.58	74	-28.42	Pk	Horizontal
	2310.00	43.78	2.97	27.80	43.80	30.75	54	-23.25	AV	Horizontal
	2310.00	59.30	2.97	27.80	43.80	46.27	74	-27.73	Pk	Vertical
	2310.00	42.11	2.97	27.80	43.80	29.08	54	-24.92	AV	Vertical
	2390.00	58.31	3.14	27.21	43.80	44.86	74	-29.14	Pk	Vertical
	2390.00	42.40	3.14	27.21	43.80	28.95	54	-25.05	AV	Vertical
	2390.00	58.14	3.14	27.21	43.80	44.69	74	-29.31	Pk	Horizontal
	2390.00	43.33	3.14	27.21	43.80	29.88	54	-24.12	AV	Horizontal
	2483.50	58.12	3.58	27.70	44.00	45.40	74	-28.60	Pk	Vertical
	2483.50	43.98	3.58	27.70	44.00	31.26	54	-22.74	AV	Vertical
	2483.50	60.52	3.58	27.70	44.00	47.80	74	-26.20	Pk	Horizontal
	2483.50	42.62	3.58	27.70	44.00	29.90	54	-24.10	AV	Horizontal
					1Mbps(GF	SK)-hopping			-	
	2310.00	54.82	2.97	27.80	43.80	41.79	74.00	-32.21	Pk	Vertical
	2310.00	41.68	2.97	27.80	43.80	28.65	54.00	-25.35	AV	Vertical
	2310.00	54.60	2.97	27.80	43.80	41.57	74.00	-32.43	Pk	Horizontal
	2310.00	42.57	2.97	27.80	43.80	29.54	54.00	-24.46	AV	Horizontal
	2390.00	50.02	3.14	27.21	43.80	36.57	74.00	-37.43	Pk	Vertical
	2390.00	40.35	3.14	27.21	43.80	26.90	54.00	-27.10	AV	Vertical
	2390.00	52.12	3.14	27.21	43.80	38.67	74.00	-35.33	Pk	Horizontal
	2390.00	42.53	3.14	27.21	43.80	29.08	54.00	-24.92	AV	Horizontal
	2483.50	50.35	3.58	27.70	44.00	37.63	74.00	-36.37	Pk	Vertical
	2483.50	44.31	3.58	27.70	44.00	31.59	54.00	-22.41	AV	Vertical
	2483.50	54.16	3.58	27.70	44.00	41.44	74.00	-32.56	Pk	Horizontal
	2483.50	40.49	3.58	27.70	44.00	27.77	54.00	-26.23	AV	Horizontal

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





UT:	Sma	art Phone		Model	Model No.:		N55			
Temperature: 20 °C			Relativ	Relative Humidity:			48%			
Test Mode: Mode2/ Mode4			Test B	est By: Allen Liu			Liu			
All the modulation modes have been tested,			, and the	d the worst result was report as below:						
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lin	nits	Margin	Aargin Detector Com	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)		(dB)	Туре	
3260	61.11	4.04	29.57	44.70	50.02	7	'4	-23.98	Pk	Vertical
3260	56.97	4.04	29.57	44.70	45.88	54		-8.12	AV	Vertical
3260	61.22	4.04	29.57	44.70	50.13	74		-23.87	Pk	Horizontal
3260	57.63	4.04	29.57	44.70	46.54	5	54	-7.46	AV	Horizontal
3332	64.45	4.26	29.87	44.40	54.18	7	' 4	-19.82	Pk	Vertical
3332	53.55	4.26	29.87	44.40	43.28	5	54	-10.72	AV	Vertical
3332	63.30	4.26	29.87	44.40	53.03	7	' 4	-20.97	Pk	Horizontal
3332	53.11	4.26	29.87	44.40	42.84	5	54	-11.16	AV	Horizontal
17797	44.68	10.99	43.95	43.50	56.12	7	'4	-17.88	Pk	Vertical
17797	33.25	10.99	43.95	43.50	44.69	5	54	-9.31	AV	Vertical
17788	44.92	11.81	43.69	44.60	55.82	7	' 4	-18.18	Pk	Horizontal
17788	33.04	11.81	43.69	44.60	43.94	5	54	-10.06	AV	Horizontal

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

7.3.6 Test Results

EUT:	Smart Phone	Model No.:	N55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Allen Liu



7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

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

7.4.2 Conformance Limit

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

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Measurement Bandwidth or Channel Separation RBW: Start with the RBW set to approximately 3% of the channel spacing; adjust as necessary to best identify the center of each individual channel. VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.4.6 Test Results

EUT:	Smart Phone	Model No.:	N55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu





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 \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:	Smart Phone	Model No.:	N55
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 $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ 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





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:	Smart Phone	Model No.:	N55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu





7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

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

7.7.2 Conformance Limit

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

7.7.3 Measuring Instruments

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

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW \geq the 20 dB bandwidth of the emission being measured VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	Smart Phone	Model No.:	N55
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



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:	Smart Phone	Model No.:	N55
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Allen Liu



7.9 SPURIOUS RF CONDUCTED EMISSION

7.9.1 Applicable Standard

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

7.9.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.9.3 Measuring Instruments

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

7.9.4 Test Setup

Please refer to Section 6.1 of this test report.

7.9.5 Test Procedure

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW \geq [3 × RBW].
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.

h) Use the peak marker function to determine the maximum amplitude level.

Then the limit shall be attenuated by at least 20 dB relative to the maximum amplitude level in 100 kHz.

7.9.6 Test Results

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





7.10 ANTENNA APPLICATION

7.10.1 Antenna Requirement

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

7.10.2 Result

The EUT antenna is permanent attached PIFA antenna (Gain: 2.11dBi). It comply with the standard requirement.



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

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

7.11.2 Frequency Hopping System

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

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

7.11.3 EUT Pseudorandom Frequency Hopping Sequence

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

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





8 TEST RESULTS

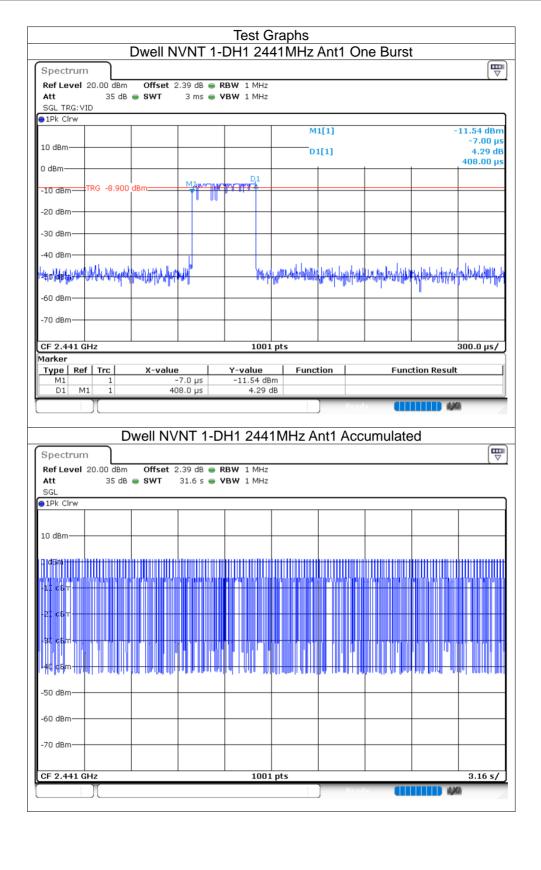
8.1 DWELL TIME

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.408	89.76	220	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.665	223.11	134	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.912	259.168	89	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.399	83.391	209	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.65	214.5	130	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.904	235.224	81	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.396	85.536	216	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.65	217.8	132	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.904	241.032	83	31600	400	Pass



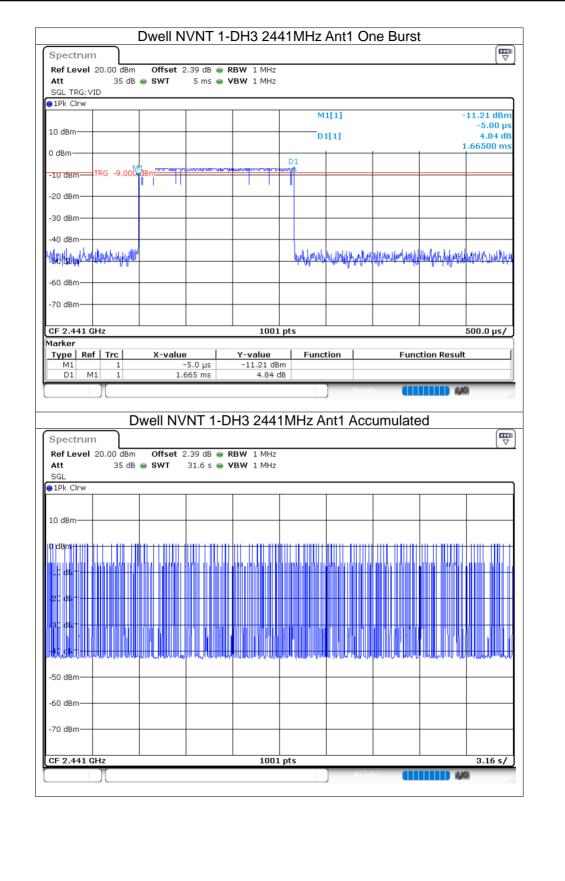


Report No.: S24031407607001



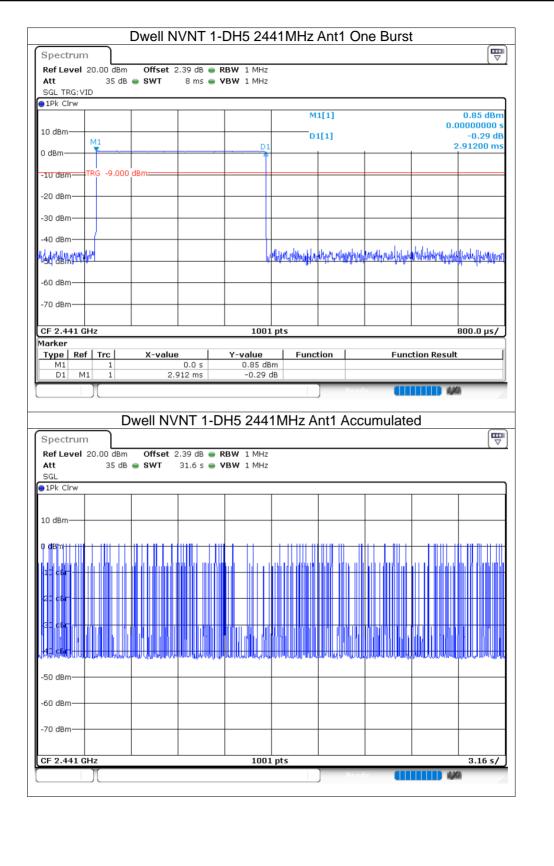






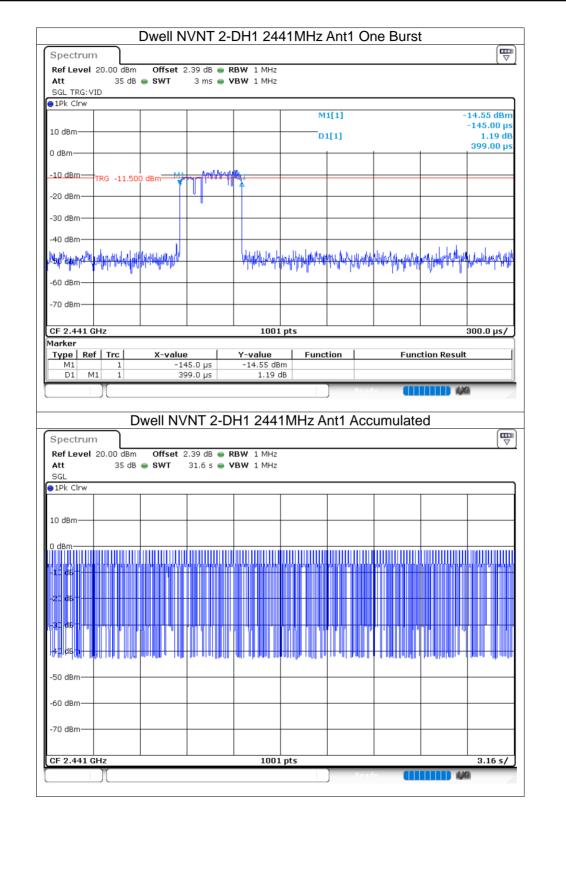






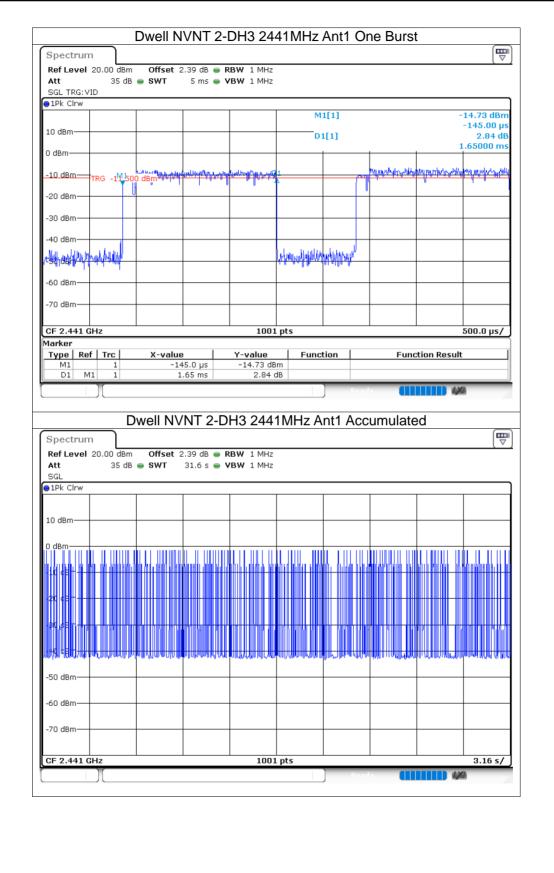






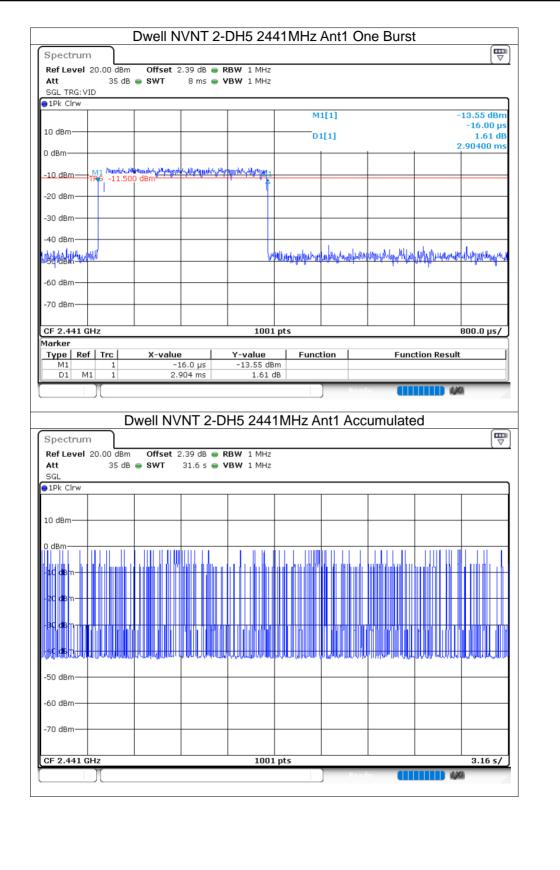






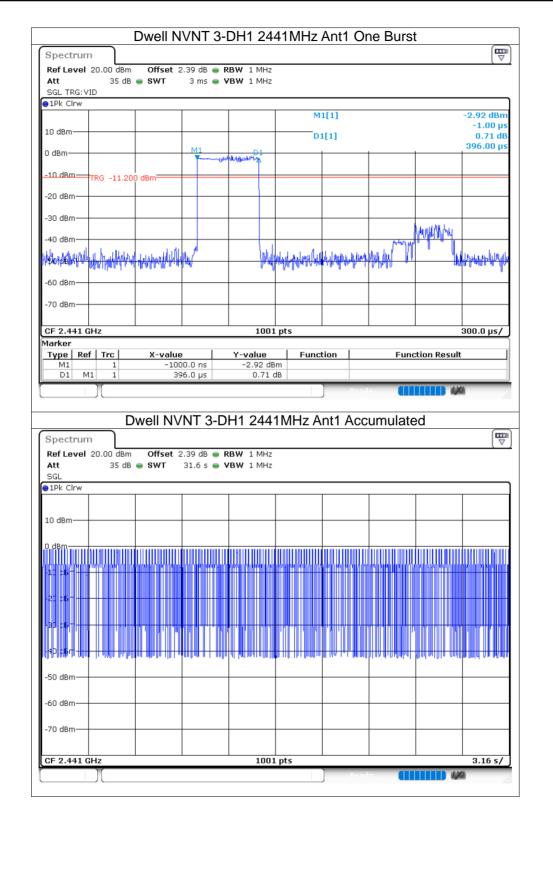






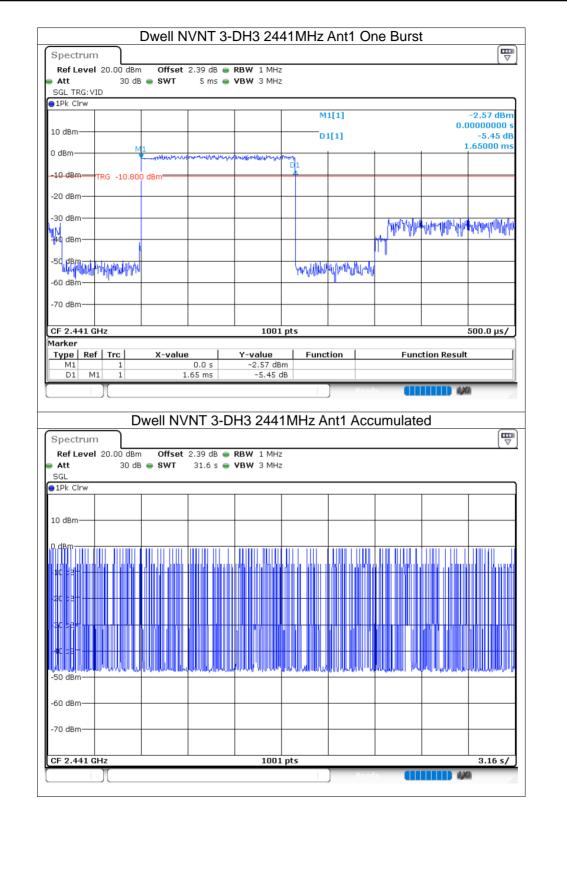






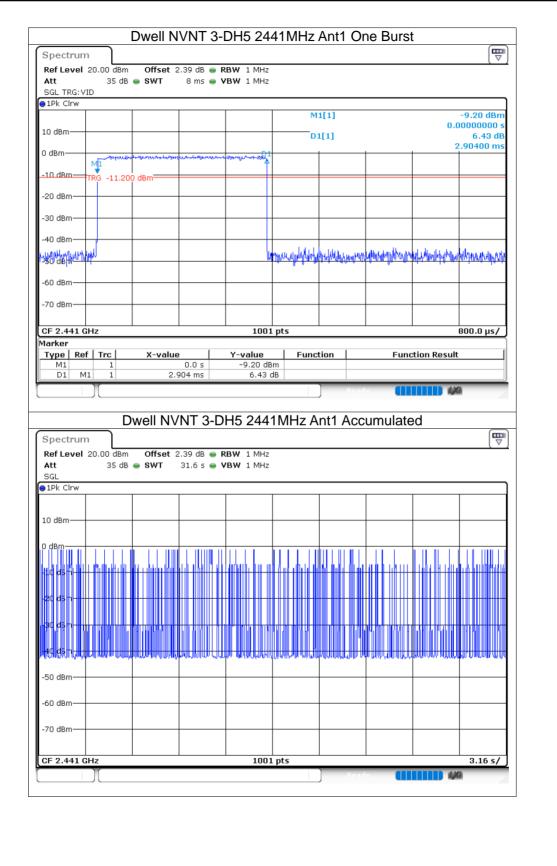
















8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	2.66	21	Pass
NVNT	1-DH5	2441	Ant1	4.03	21	Pass
NVNT	1-DH5	2480	Ant1	3.65	21	Pass
NVNT	2-DH5	2402	Ant1	0.75	21	Pass
NVNT	2-DH5	2441	Ant1	-0.81	21	Pass
NVNT	2-DH5	2480	Ant1	0.29	21	Pass
NVNT	3-DH5	2402	Ant1	0.54	21	Pass
NVNT	3-DH5	2441	Ant1	-0.93	21	Pass
NVNT	3-DH5	2480	Ant1	0.49	21	Pass





			Test C	Graphs				
	P	ower NV	NT 1-D	H5 2402	2MHz A	.nt1		
Spectrum Ref Level 20.00 dB								
Att 35 c		2.38 dB 👄 RE 1 ms 👄 VE		Mode Aut	to Sweep			
SGL Count 100/100								
1Pk Max				M	1[1]			2.66 dBm
							2.401	87010 GHz
.0 dBm			M1					
dBm			v					
10 d8m								
20 dBm								
30 dBm								
40 dBm								
50 dBm								
50 dBm								
60 dBm								
70 dBm								
								· ·
	P	ower NV	100: NT 1-D) 1MHz A	int1	Spa	n 5.0 MHz
Spectrum Ref Level 20.00 dB	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244 ⁻		lv 🚺	Spa	n 5.0 MHz
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100	m Offset		NT 1-D	H5 244 ⁻		dv 🚺	Spa	
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244 Mode Aut	to Sweep	nt1	Spa	
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244 Mode Aut		.nt1		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	.nt1		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 0 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244 Mode Aut	to Sweep	.nt1		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 11Pk Max .0 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	nt1		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 hTPk Max 10 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	iv (1)		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max .0 dBm 0 dBm 10-6Bm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	1v 1		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max .0 dBm 0 dBm 10-6Bm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	iv ()		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max .0 dBm .0 dBm .0 dBm .0 dBm .0 dBm .0 dBm .0 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	nt1		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1PK Max 0 dBm 10 dBm 20 dBm 20 dBm 30 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	iv (1)		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1PK Max 0 dBm 10 dBm 20 dBm 20 dBm 30 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	int1		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 0 dBm dBm 10 dBm 20 dBm 40 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	iv (1)		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1PK Max 0 dBm 1 dBm 20 dBm 30 dBm 40 dBm 50 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	iv (1)		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 11Pk Max 0 dBm 0 dBm 10 dBm 20 dBm 40 dBm 50 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	iv (1)		
CF 2.402 GHz Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 1Pk Max 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 60 dBm 70 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	int1		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 10Pk Max 10 dBm 10 dBm 20 dBm 20 dBm 40 dBm 50 dBm 60 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	H5 244	to Sweep	1v (1)		
Spectrum Ref Level 20.00 dB Att 35 c SGL Count 100/100 11Pk Max 0 dBm 0 dBm 10 dBm 20 dBm 40 dBm 50 dBm 60 dBm	m Offset	2.39 dB 😑 RE	NT 1-D	Mode Aut	to Sweep	iv (1)	2.441	4.03 dBm 07490 GHz





3.65 dBm 83020 GHz
n 5.0 MHz
0.75 dBm 15580 GHz
~
and and the second of the
· · · · · · · · · · · · · · · · · · ·
n 6.5 MHz
1





Att	20.00 dBm 35 dB	Offset 2. SWT	39 dB 👄 RI 1 ms 👄 V		Mode Auto	o Sweep			
SGL Count 1Pk Max	100/100								
IFK Max					M1	[1]			-0.81 dBm
10 dBm							I	2.440	92860 GHz
io upin									
) dBm				M1					
10 dBm									
TO UBIII	- All and a second								
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30 dBm									and the second s
-30 abm									
40 dBm									
50 dBm									
эо авт—									
60 dBm									
70 -10									
70 dBm									
				1001	ntc				n 6.5 MHz
JF 2.441 G	~								74.
Spectrun Ref Level	20.00 dBm	Offset 2.	42 dB 曼 RI				nt1		
Spectrun Ref Level Att	20.00 dBm 35 dB		42 dB 曼 RI	BW 2 MHz	H5 2480 Mode Auto				
Spectrun Ref Level Att SGL Count	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			
Spectrun Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto				0.29 dBm 112340 GHz
Spectrun Ref Level Att SGL Count 1Pk Max	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrun Ref Level Att SGL Count 91Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrun Ref Level Att SGL Count 91Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrun Ref Level Att SGL Count)1Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrun Ref Level Att SGL Count 11Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrun Ref Level Att SGL Count 11Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrun Ref Level Att SGL Count 11Pk Max 10 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrum Ref Level Att SGL Count 11Pk Max 0 dBm 0 dBm 10 dBm 20 dBm 30 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrum Ref Level Att SGL Count 11PK Max 10 dBm 0 dBm 20 dBm 20 dBm 30 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrum Ref Level Att SGL Count 11PK Max 0 dBm 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrum Ref Level Att SGL Count 11PK Max 0 dBm 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrum Ref Level Att SGL Count 11PK Max 0 dBm 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrum Ref Level Att SGL Count 10 H Max 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 60 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep			0.29 dBm
Spectrum Ref Level Att SGL Count 10 H Max 0 dBm 10 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 50 dBm 60 dBm	20.00 dBm 35 dB	Offset 2.	42 dB 曼 RI	BW 2 MHz BW 2 MHz	Mode Auto	o Sweep		2.480	0.29 dBm 112340 GHz
Spectrum Ref Level Att SGL Count 11PK Max 0 dBm 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 60 dBm 70 dBm	20.00 dBm 35 dB 100/100	Offset 2.	42 dB 曼 RI	BW 2 MHz	Mode Auto	o Sweep	nt1	2.480	0.29 dBm 12340 GHz
CF 2.441 C	20.00 dBm 35 dB 100/100	Offset 2.	42 dB 曼 RI	BW 2 MHz BW 2 MHz	Mode Auto	o Sweep		2.480	0.29 dBm 12340 GHz





Spectrum Ref Level 20.00	dBm Offset :	2.38 dB 🔵 RB	W 2 MHz					
Att 3	5 dB SWT	1 ms 👄 VB		Mode Aut	o Sweep			
SGL Count 100/1 1Pk Max	00							
				M	1[1]			0.54 dBm
10 dBm							2.402	200650 GHz
			м	1				
) dBm		www.www.		ANGED AND AND AND AND AND AND AND AND AND AN	manan	man.		
-10 dBm								
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-20 dBm								
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-50 dBm		_]
-60 dBm								
-70 dBm								
CF 2.402 GHz			1001	pts			Spa	in 6.5 MHz
Spectrum				H5 2441	IMHz A	nt1		
Spectrum Ref Level 20.00 Att 3	dBm Offset : s5 dB SWT	OWER NVI 2.39 dB ● RB 1 ms ● VB	W 2 MHz			nt1		
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz	Mode Aut	o Sweep	nt1		
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 01Pk Max	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz	Mode Aut		nt1	2.440	-0.93 dBm 088960 GHz
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 91Pk Max	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz	Mode Aut	o Sweep	nt1	2.44(-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 01Pk Max 10 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz	Mode Aut	o Sweep	nt1	2.44(-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 DIPk Max 10 dBm 0 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.44(-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 01Pk Max 10 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.440	-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.44(-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.440	-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 PIPk Max 10 dBm 10 dBm 20 dBm 20 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.440	-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 11Pk Max 10 dBm 10 dBm 10 dBm 20 dBm -20 dBm -30 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.440	-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 1PK Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.44(-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 11Pk Max 10 dBm 10 dBm 10 dBm 20 dBm -20 dBm -30 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.440	-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 10 dBm 10 dBm 10 dBm -10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.440	-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 10 IPK Max 10 dBm 10 dBm 10 dBm 20 dBm 40 dBm 50 dBm 60 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.440	-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 10 IPK Max 10 dBm 10 dBm 10 dBm 20 dBm 40 dBm 50 dBm 60 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	2.440	-0.93 dBm
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 1PK Max 10 dBm 10 dBm 10 dBm 20 dBm 40 dBm 50 dBm 50 dBm 70 dBm 70 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz M1	Mode Aut	o Sweep	nt1		-0.93 dBm 188960 GHz
Spectrum Ref Level 20.00 Att 3 SGL Count 100/1 10 dBm 10 dBm 10 dBm -10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	dBm Offset : s5 dB SWT	2.39 dB 👄 RB	W 2 MHz W 2 MHz	Mode Aut	o Sweep	nt1	Spa	-0.93 dBm 188960 GHz





spectrum	3-DH5 2480MHz Ant1	
RefLevel 20.00 dBm Offset 2.42 dB ● RBW 3 Att 35 dB SWT 1 ms ● VBW 3 GGL Count 100/100		(•
1Pk Max	M1[1]	0.49 dBm
0 dBm		2.47999350 GHz
	MI	
dBm	and a state of the second s	
LO dBm		
20 dBmmm		
30 dBm		
+0 dBm		
50 dBm		
50 dBm		
70 dBm		
F 2.48 GHz	1001 pts	Span 6.5 MHz





8.3 -20DB BANDWIDTH

_			-			
	Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
	NVNT	1-DH5	2402	Ant1	0.892	Pass
	NVNT	1-DH5	2441	Ant1	0.95	Pass
	NVNT	1-DH5	2480	Ant1	0.952	Pass
	NVNT	2-DH5	2402	Ant1	1.284	Pass
	NVNT	2-DH5	2441	Ant1	1.324	Pass
	NVNT	2-DH5	2480	Ant1	1.282	Pass
	NVNT	3-DH5	2402	Ant1	1.28	Pass
	NVNT	3-DH5	2441	Ant1	1.29	Pass
	NVNT	3-DH5	2480	Ant1	1.278	Pass







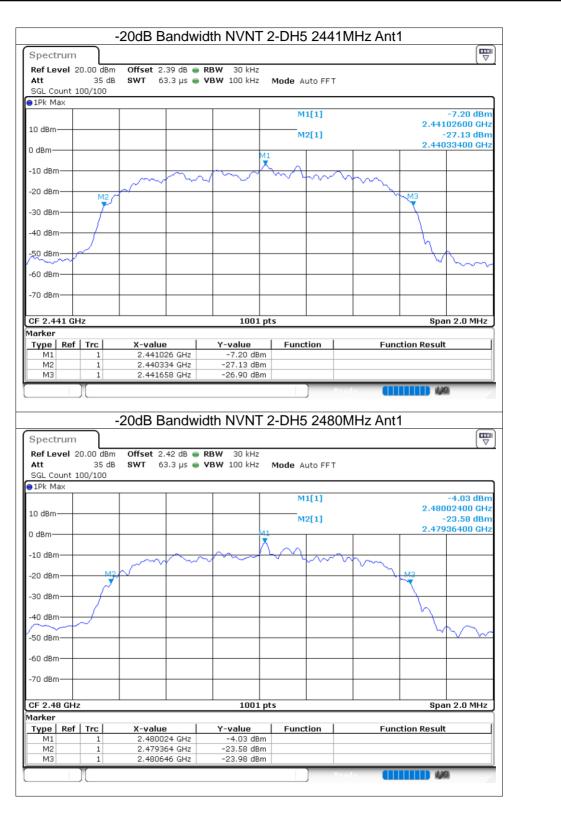






















	2110 21001		-20dB Bandw		Spectrum
(\(\neg \)	Mode Auto FFT			20.00 dBm 35 dB	
					LPk Max
-4.18 dBm	M1[1]				
2.48000000 GHz					0 dBm
-23.87 dBm 2.47934600 GHz	M2[1]				
					dBm
	~^_	-			10 dBm
\sim		~ ~ ~	1 mm		10 0.0111
			<		20 dBm —
5				- 7	
					30 dBm
					40 dBm
				ſ	
					50 dBm 🗡
					50 dBm
					70 dBm
Span 2.0 MHz	5	1001 pt		z	F 2.48 GH
					arker
Function Result	Function	Y-value	X-value	f Trc	
		-4.18 dBm	2.48 GHz	1	M1
		-23.87 dBm -23.86 dBm	2.479346 GHz 2.480624 GHz	1	M2 M3





8.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.873
NVNT	1-DH5	2441	Ant1	0.833
NVNT	1-DH5	2480	Ant1	0.849
NVNT	2-DH5	2402	Ant1	1.187
NVNT	2-DH5	2441	Ant1	1.185
NVNT	2-DH5	2480	Ant1	1.181
NVNT	3-DH5	2402	Ant1	1.187
NVNT	3-DH5	2441	Ant1	1.179
NVNT	3-DH5	2480	Ant1	1.191



















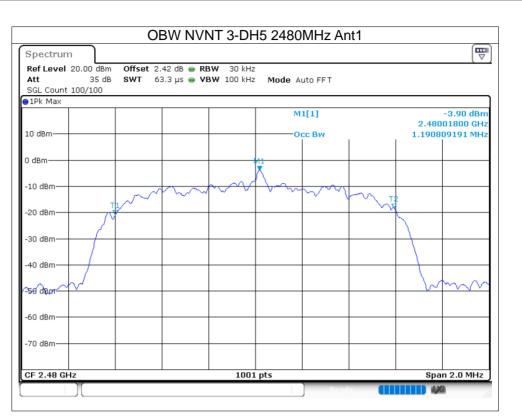














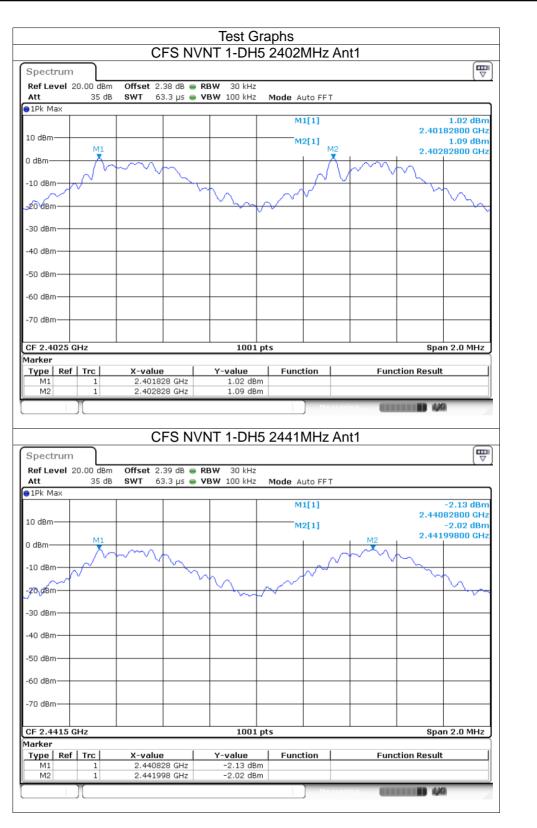


8.5 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Antenna	Hopping	Hopping	HFS	Limit	Verdict
			Freq1 (MHz)	Freq2 (MHz)	(MHz)	(MHz)	
NVNT	1-DH5	Ant1	2401.828	2402.828	1	0.595	Pass
NVNT	1-DH5	Ant1	2440.828	2441.998	1.17	0.633	Pass
NVNT	1-DH5	Ant1	2478.826	2479.828	1.002	0.635	Pass
NVNT	2-DH5	Ant1	2402.018	2403.02	1.002	0.856	Pass
NVNT	2-DH5	Ant1	2441.002	2442.005	1.003	0.883	Pass
NVNT	2-DH5	Ant1	2479.001	2480.006	1.005	0.855	Pass
NVNT	3-DH5	Ant1	2402.018	2402.994	0.976	0.853	Pass
NVNT	3-DH5	Ant1	2440.826	2442.004	1.178	0.86	Pass
NVNT	3-DH5	Ant1	2479.018	2480.02	1.002	0.852	Pass

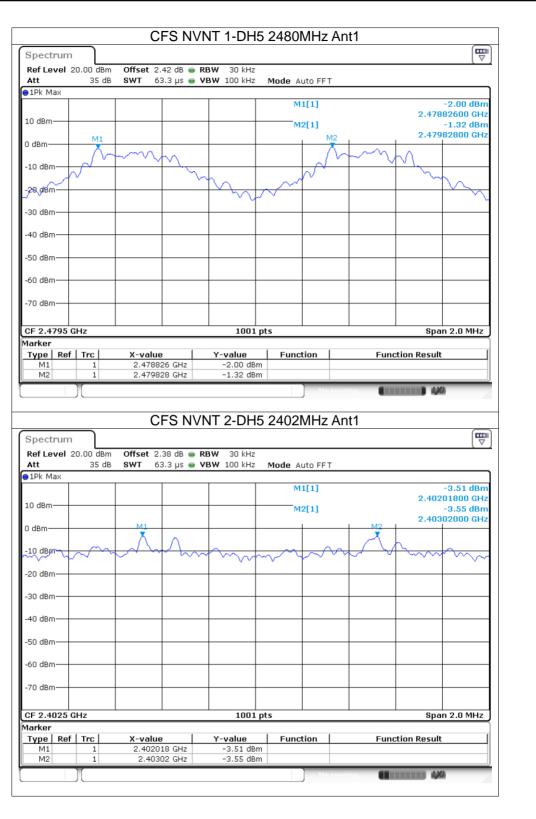






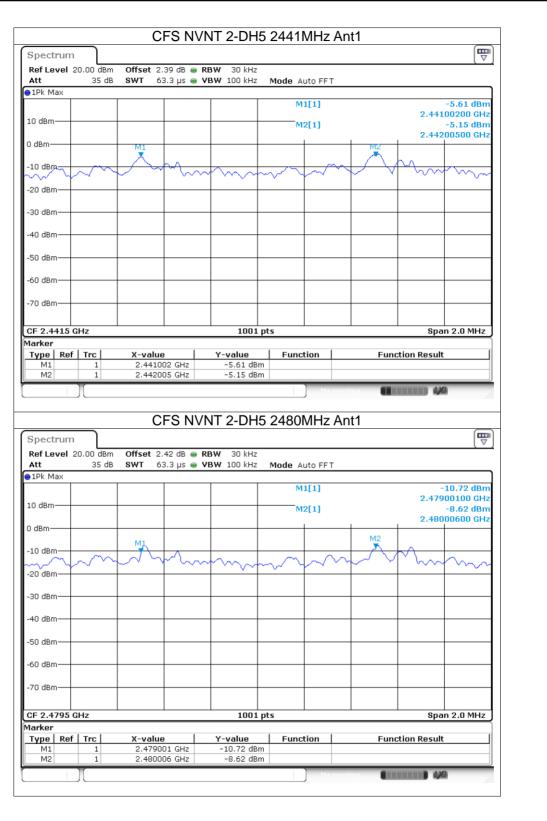






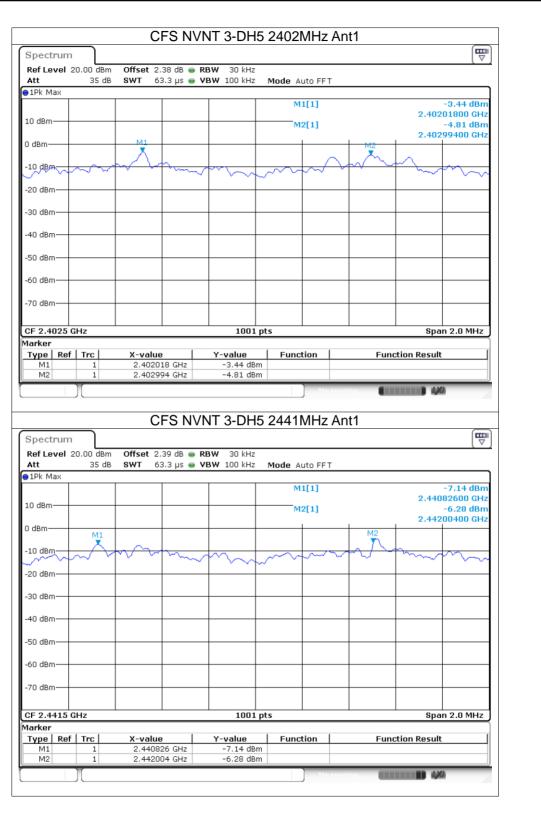






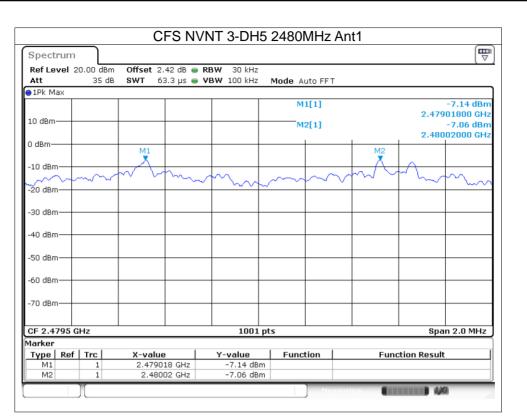
















8.6 NUMBER OF HOPPING CHANNEL

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





				Test G			A		
		Норрі	ing No.	NVNT 1	-DH5 24(J2MH	z Ant1		
Spectrum		0#	00 do						
Ref Level - 2 Att	20.00 dBm 35 dB	SWT	_	RBW 100 kHz VBW 300 kHz	Mode Auto) Sweep			
1Pk Max		1	1						
					M1[:	1]		2.40	1.16 dBm 018370 GHz
0 dBm					M2[:	L]			-0.73 dBm
Wemnnahn		dhhhhhad	konnibad	Nonononali	*****	AAAAA AA	AAAAAAAA	2.48 (())))))))	302435,4 <u>6</u> Hz
WWWWW	WAANUU	AUAUAUA.	MANAU	Walatan	MUMUM	UNI WU	UUUUAA	TURANAN	ANARIJI – I
4 88 8 9 9 9 9	a cadalaa	404889408	MAAAAAA.	A A DA I NO BADA	AAD AA AAAAAA	111111	1010101010	JAAAAAA	/\}\}\
20 dBm									
30 dBm									
10 dBm									
50 dBm									- www
i0 dBm									10.00
70 dBm				+ +					+
itart 2.4 GH	47			1001	nts			Stop 2	.4835 GHz
arker	12			1001	pts			5tup 2	.4633 GH2
ype Ref		X-value		Y-value	Functio	n	Fund	tion Resul	t
M1 M2	1	2.4018	37 GHz 35 GHz	1.16 dBr -0.73 dBr					
		Hoppi					z Anti		
	20.00 dBm			. NVNT 2	-DH5 24()2MH	z Ant1		
.ef Level 2 .tt	20.00 dBm 35 dB		.38 dB 👄 F	RBW 100 kHz VBW 300 kHz	DH5 24(Mode Auto		z Ant1		
Ref Level 2 Att		Offset 2	.38 dB 👄 F	RBW 100 kHz	Mode Auto) Sweep	z Ant1		
Ref Level 2 Att 1Pk Max		Offset 2	.38 dB 👄 F	RBW 100 kHz	Mode Auto) Sweep	z Ant1	2.40	-4.29 dBm 〕17535 GHz
tt 1Pk Max		Offset 2	.38 dB 👄 F	RBW 100 kHz	Mode Auto) Sweep	z Ant1		-4.29 dBm
	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
IPK Max O dBm IdBm IdBm IdBm IdBm	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
IdBm 10 dBm 10 dBm	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
Act 2 Att 1 1Pk Max 0 0 dBm 1 1dBm 1 0 dBm 1 20 dBm 1 20 dBm 30 dBm	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
Act 2 Act 1 1Pk Max 0 0 dBm 1 1dBm 1 0 dBm 1	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
Act 2 Act 1 1Pk Max 0 0 1dBm 1 1dBm 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
Act 2 Act 1 1Pk Max 0 0 dBm 1 1dBm 1 1dBm 1 0 dBm 1 10 dBm 1 10 dBm 1 10 dBm 1 20 dBm 1 30 dBm 1 50 dBm 1 50 dBm 1	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
Ref Level 2 Stt 1Pk Max 0 dBm IdBm IdBm 0 dBm 0 dBm 20 dBm 20 dBm 30 dBm 50 dBm 50 dBm	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto M1[: M2[:) Sweep L] L]		2.48	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
Act 2 Act 1 1Pk Max 0 0 dBm 1 1dBm 1 1dBm 1 0 dBm 1 20 dBm 1 20 dBm 1 40 dBm 1 50 dBm 1	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz	Mode Auto) Sweep L] L]		2.48 4	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
Ref Level 2 Att 1Pk Max 0 dBm 10 dBm 10 dBm 20 dBm 20 dBm 30 dBm 40 dBm 50 dBm	35 dB	Offset 2 SWT	.38 dB 👄 🖡 1 ms 👄 V	RBW 100 kHz VBW 300 kHz	Mode Auto) Sweep L] L]		2.48 4	-4.29 dBm 017535 GHz -8.18 dBm 303270 GHz
Act 2 Act 1 1Pk Max 0 0 dBm 1 1dBm 1 20 dBm 1 40 dBm 1 50 dBm 1 70 dBm 1 1dtert 2.4 GH 1 arker 1 Type Ref	35 dB Wuhnyy 1z Trc	Offset 2. SWT	.38 dB • F	RBW 100 kHz VBW 300 kHz	Mode Auto) Sweep [] [] [] []	Wildre	2.48 4	-4.29 dBm 017535 GHz -8.18 dBm 803270 GHz M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2
Ref Level 2 Att 1Pk Max 0 dBm 1dBm 10 dBm 30 dBm 50 dBm	35 dB	Оffset 2. SWT	.38 dB • F	RBW 100 kHz VBW 300 kHz	Mode Auto) Sweep [] [] [] []	Wildre	2.4	-4.29 dBm 017535 GHz -8.18 dBm 803270 GHz M2 M2 M4 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2





Spectrum									E
Ref Level		0fft 0		DRUL 100 HUS					(v
Att	20.00 aBm 35 dB		_	RBW 100 kHz VBW 300 kHz	Modo A	uto Sweep	_		
1Pk Max	55 GD	3111	1 1113	1011 300 KHZ	Moue A	uto sweet	J		
ar k man					M	1[1]			-4.42 dBm
								2.40	16700 GHz
10 dBm					M	2[1]			-9.57 dBm
0. d0								2.48	04105 GHz
©ldBm ▼Isaldt	dis Cont				JULIU	A CONTRACTOR			
-10 dBm-	rververeerer	YUWYYYHLAN	and	munder	66 YA 198 JULY	H VYRYWW	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Marsa	Why 2
-to abiii		1						. akil oa o	
-20 dBm-									
-80 dBm				_					
-40 dBm				_					
N									
-50 dBm				-					4.
-60 dBm									
-70 dBm—									
Start 2.4 G	Hz			1001	pts		·	Stop 2	4835 GHz
larker									
Type Re		X-value		Y-value	Func	tion	Fund	ction Result	
M1 M2	1	2.4016	57 GHz	-4.42 dBi -9.57 dBi					





8.7 BAND EDGE

•••								
	Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	NVNT	1-DH5	2402	Ant1	No-Hopping	-52.77	-20	Pass
	NVNT	1-DH5	2480	Ant1	No-Hopping	-55.16	-20	Pass
	NVNT	2-DH5	2402	Ant1	No-Hopping	-48.62	-20	Pass
	NVNT	2-DH5	2480	Ant1	No-Hopping	-50.47	-20	Pass
	NVNT	3-DH5	2402	Ant1	No-Hopping	-47.05	-20	Pass
	NVNT	3-DH5	2480	Ant1	No-Hopping	-51.67	-20	Pass





				Test Gr						
	Band	Edge N	VNT 1-	DH5 2402		nt1 No	-Hoppir	ng Ref		
Spectrun							<u> </u>			
-	20.00 dBm	Offset 2.	38 dB 👄 🖪	BW 100 kHz						Ľ,
Att	35 dB	SWT 18	3.9 µs 😑 🍾	/BW 300 kHz	Mode Aut	to FFT				
SGL Count 1Pk Max	100/100									_
IFK Man					M1	[1]			2.47 0	lBm
								2.402	15980	
10 dBm				N	11					
				1 mil	Χ					
) dBm——										
-10 dBm										
-20 dBm				+/-+	\rightarrow					_
-30 dBm										_
					- N					
-40 dBm			$ \land$							_
E0 d0m						$\langle \rangle$				
-50 dBm	~ ^		\sim			Sm		. 00-		
-60 dBm—	$\sim \sim \sim \sim$	w w	• •				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and a de	-	~~~
-70 dBm										
			1	1 1				1		
][lge NVN	T 1-DF	1001 p		Read	opping		<u>n 8.0 м</u> Л	Hz
B	and Ed	lge NVN	T 1-DF			Pead I No-H	opping		1	Hz)
B Spectrun Ref Level	and Ed	Offset 2	2.38 dB 👄	15 2402M	Hz Ant1		opping		1	
B Spectrum Ref Level Att	and Ed	Offset 2	2.38 dB 👄	15 2402M			opping		1	
B Spectrum Ref Level Att SGL Count	and Ed	Offset 2	2.38 dB 👄	15 2402M	Hz Ant1		opping		1	
B Spectrum Ref Level Att SGL Count	and Ed	Offset 2	2.38 dB 👄	15 2402M	Hz Ant1	ito FFT	opping	Emissio	n 1.82 c	₩
B Spectrum Ref Level Att SGL Count JPk Max	and Ed	Offset 2	2.38 dB 👄	15 2402M	Mode Au	uto FFT	opping	Emissio	1.82 c 15000	IBm GHz
B Spectrum Ref Level Att SGL Count SGL Count 1Pk Max	and Ed	Offset 2	2.38 dB 👄	15 2402M	Hz Ant1	uto FFT	opping	Emissio	n 1.82 c	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count SGL Count) IPk Max 10 dBm	and Ed	Offset 2	2.38 dB 👄	15 2402M	Mode Au	uto FFT	opping	Emissio	1.82 c 15000 55.76M	IBm GHz tβBm
B Spectrun Ref Level Att SGL Count JPk Max 10 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.38 dB 👄	15 2402M	Mode Au	uto FFT	opping	Emissio	1.82 c 15000 55.76M	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count 91Pk Max 10 dBm	and Ed	Offset 2 SWT 22	2.38 dB 👄	15 2402M	Mode Au	uto FFT	opping	Emissio	1.82 c 15000 55.76M	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count SGL Count IPK Max 10 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.38 dB 👄	15 2402M	Mode Au	uto FFT	opping	Emissio	1.82 c 15000 55.76M	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm	Dand Ed	Offset 2 SWT 22	2.38 dB 👄	15 2402M	Mode Au	uto FFT	opping	Emissio	1.82 c 15000 55.76M	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count 10 dBm	Dand Ed	Offset 2 SWT 22	2.38 dB 👄	15 2402M	Mode Au	uto FFT	opping	Emissio	1.82 c 15000 55.76M	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count 10 dBm	and Ed	Offset 2 SWT 22	2.38 dB • 2.7.5 µs •	15 2402MI RBW 100 kHz yBW 300 kHz	Mode Au Mode Au M1 M2	1to FFT [1] [1]		2.400	1.82 c 15000 55.76M 000000	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count 10 dBm 0 dBm 0 dBm 20 dBm 20 dBm 30 dBm 30 dBm 40 dBm 40 dBm	and Ed	Offset 2 SWT 22	2.38 dB • 2.7.5 µs •	15 2402MI RBW 100 kHz yBW 300 kHz	Mode Au Mode Au M1 M2	1to FFT [1] [1]		2.400	1.82 c 15000 55.76M 000000	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count 10 dBm 0 dBm 0 dBm 20 dBm 20 dBm 30 dBm 30 dBm 40 dBm 40 dBm	and Ed	Offset 2 SWT 22	2.38 dB • 2.7.5 µs •	H5 2402MI RBW 100 kHz VBW 300 kHz M4	Mode Au Mode Au M1 M2	1to FFT [1] [1]		2.400	1.82 c 15000 55.76M 000000	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count 10 dBm	and Ed	Offset 2 SWT 22	2.38 dB • 2.7.5 µs •	15 2402MI RBW 100 kHz yBW 300 kHz	Mode Au Mode Au M1 M2	1to FFT [1] [1]		2.400	1.82 c 15000 55.76M 000000	IBm GHz tβBm
B Spectrum Ref Level Att SGL Count 10 dBm	D1 -17.528	Offset 2 SWT 22	2.38 dB • 2.7.5 µs •	15 2402MI RBW 100 kHz YBW 300 kHz 100 kHz 10	Mode Au Mode Au M11 M21 M21 M21 M21 M21 M21 M21	1to FFT [1] [1]		2.402 2.400	1.82 c 15000 55.76M 000000	IBm GHz GHz
B Spectrum Ref Level Att SGL Count 10 dBm	D1 -17.528	Offset 2 SWT 22	2.38 dB • 2.7.5 µs •	15 2402MI RBW 100 kHz yBW 300 kHz	Mode Au Mode Au M11 M21 M21 M21 M21 M21 M21 M21	1to FFT [1] [1]		2.402 2.400	1.82 c 15000 55.76M 000000	IBm GHz GHz
B Spectrum Ref Level Att SGL Count 10 dBm 0 dBm 0 dBm 	D1 -17.528	Offset 2 SWT 22	2.38 dB • ?7.5 µs •	15 2402MI RBW 100 kHz YBW 300 kHz 100 kHz 10	Mode Au Mode Au M11 M21 M21 M21 M21 M21 M21 M21	ווס FFT (1) (1) יוייייייייייייייייייייייייייייייייייי	and marked and a	2.402 2.400	1.82 c 15000 55.764 00000	IBm GHz GHz
B Spectrum Ref Level Att SGL Count SGL Count 10 dBm 0 dBm -0 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 d	and Ed	Offset 2 SWT 22	2.38 dB • 27.5 µs • 27.5	15 2402MI RBW 100 kHz yBW 300 kHz	Hz Ant1 Mode Au M11 M2 M12 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M2 M1 M1 M2 M1 M2 M1 M2 M1 M2 M1 M1 M2 M1 M1 M2 M1 M2 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M2 M1 M1 M1 M2 M1 M1 M1 M2 M1 M1 M1 M2 M1 M1 M1 M2 M1 M1 M1 M1 M2 M1 M1 M1 M1 M1 M2 M1 M1 M1 M1 M1 M2 M1 M1 M1 M1 M2 M1 M1 M1 M2 M1 M1 M1 M2 M1 M1 M1 M1 M1 M1 M1 M2 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	ווס FFT (1) (1) יוייייייייייייייייייייייייייייייייייי	and marked and a	2.402 2.402 2.400	1.82 c 15000 55.764 00000	IBm GHz GHz
B Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm Start 2.30 4arker Type Re M1 M2	Contraction Contracti	Offset 2 SWT 22 3 dBm 3 dBm 4 3 dBm 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	2.38 dB 27.5 μs 	15 2402MI RBW 100 kHz YBW 300 kHz	Hz Ant1 Mode Au M1] M2]	ווס FFT (1) (1) יוייייייייייייייייייייייייייייייייייי	and marked and a	2.402 2.402 2.400	1.82 c 15000 55.764 00000	IBm GHz GHz
Spectrun Ref Level Att SGL Count JIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -50 dBm -70 dBm	and Ed	Offset 2 SWT 22 3WT 22 3 dBm 3 dBm 3 dBm 4 3 dBm 4 3 dBm 2 3 dBm 2 3 dBm 4 3 dBm 4 3 3 dBm 4 3 3 3 dBm 4 3 3 dBm 4 3 3 3 3 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2	2.38 dB • 27.5 µs • 27.5	15 2402MI RBW 100 kHz yBW 300 kHz	Mode Au Mode Au M11 M2 M12 M2 M12 M12 M12 M12 M12 M12 M	גדס FFT [1] [1] גרס אינאליט אינא גרס אינאליט אינ	and marked and a	2.402 2.402 2.400	1.82 c 15000 55.764 00000	IBm GHz GHz





Spectrum	<u> </u>								E
Ref Level	20.00 dBm		42 dB 🖷 RE	W 100 kHz					([*]
Att	35 dB	SWT 18	3.9 µs 👄 VE	3W 300 kHz	Mode A	uto FFT			
GGL Count 1Pk Max	100/100								
					M	1[1]			3.18 dBm
								2.479	99200 GHz
0 dBm				M1					
-10				I 🔍 🔭	2				
dBm									
10 dBm					L_				
					5				
20 dBm									
				/	$\langle \rangle$				
30 dBm									
10 dBm			$\vdash \land$			/~\			
50 dBm							Δ.		0
\sim	$\sim\sim\sim$	\sim	\sim			m	pum	m	n
50 dBm									
70 dBm									
Ba	and Ed	ge NVN	IT 1-DH	1001 p 5 2480M) Read	opping		
Ba	and Ed			5 2480M) Read	opping		n
Ba Spectrum Ref Level	and Ed	Offset 2	2.42 dB 👄 R	5 2480M BW 100 kHz	Hz Ant		opping		n
Bi pectrum Ref Level Att SGL Count	and Ed	Offset 2	2.42 dB 👄 R	5 2480M	Hz Ant) Poor t <mark>1 No-H</mark> Auto FFT	opping		1
Bi pectrum Ref Level Att SGL Count	and Ed	Offset 2	2.42 dB 👄 R	5 2480M BW 100 kHz	Hz Ant	Auto FFT	opping		n T
Bi Bectrum Ref Level Att SGL Count 1Pk Max	and Ed	Offset 2	2.42 dB 👄 R	5 2480M BW 100 kHz	Hz Ant		opping	Emissio	0 ∩ (₩ 3.17 dBm
Bi Bectrum Ref Level Att SGL Count 1Pk Max	and Ed	Offset 2	2.42 dB 👄 R	5 2480M BW 100 kHz	Mode ,	Auto FFT	opping	Emissio	n T
Bi Bpectrum Ref Level Att SGL Count 1Pk Max	and Ed	Offset 2	2.42 dB 👄 R	5 2480M BW 100 kHz	Mode ,	Auto FFT 1[1]	opping	Emissio 2.479	0 ∩ (₩ 3.17 dBm 195000 GHz
Bi Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm dbm	and Ed	Offset 2	2.42 dB 👄 R	5 2480M BW 100 kHz	Mode ,	Auto FFT 1[1]	opping	Emissio 2.479	000
Bi Spectrum Ref Level Att JPk Max 0.dBm dBm L0 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 👄 R	5 2480M BW 100 kHz	Mode ,	Auto FFT 1[1]	opping	Emissio 2.479	000
Bi Spectrum Ref Level Att JPk Max 0.dBm dBm L0 dBm	and Ed	Offset 2 SWT 22	2.42 dB 👄 R	5 2480M BW 100 kHz	Mode ,	Auto FFT 1[1]	opping	Emissio 2.479	000
Bi Spectrum Ref Level Att GGL Count IPk Max 0,dBm dBm 10 dBm 20 cBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 👄 R	5 2480M BW 100 kHz	Mode ,	Auto FFT 1[1]	opping	Emissio 2.479	000
Bi Spectrum Ref Level Att JPk Max 0,dBm dBm dBm dBm dBm dBm dBm dBm dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 👄 R	5 2480M BW 100 kHz	Mode ,	Auto FFT 1[1]	opping	Emissio 2.479	000
Bi Spectrum Ref Level Att JPk Max 0,dBm dBm 10 dBm 10 dBm 30 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 👄 R	5 2480M BW 100 kHz	Mode ,	Auto FFT 1[1]	opping	Emissio 2.479	000
Bi Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB • R 27.5 μs • V	5 2480M	Mode /	Auto FFT 1[1] 2[1]		2.479 2.483	00 3.17 dBm 95000 GHz 54.41 dBm 54.41 dBm
Bi Spectrum Ref Level Mt SGL Count IPk Max dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB 👄 R	5 2480M	Mode ,	Auto FFT 1[1] 2[1]		2.479 2.483	000
Bi pectrum tef Level Mt GGL Count IPk Max 0,dBm dBm dBm 0,dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB • R 27.5 μs • V	5 2480M	Mode /	Auto FFT 1[1] 2[1]		2.479 2.483	00 3.17 dBm 95000 GHz 54.41 dBm 54.41 dBm
Bi Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm 0,dBm 20,cBm 20,cBm 20,cBm 30,dBm 40,dBm 40,dBm 40,dBm 40,dBm 40,dBm 40,dBm	and Ed 20.00 dBm 35 dB 100/100	Offset 2 SWT 22	2.42 dB • R 27.5 μs • V	5 2480M	Mode /	Auto FFT 1[1] 2[1]		2.479 2.483	00 3.17 dBm 95000 GHz 54.41 dBm 54.41 dBm
Bi Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm dBm 10 dBm 20 dBm 30 dBm 30 dBm 50 dBm 70 dBm	and Ed 20.00 dBm 35 dB 100/100 D1 -16.817	Offset 2 SWT 22	2.42 dB • R 27.5 μs • V	5 2480M	Mode / Mode / M	Auto FFT 1[1] 2[1]		2.479 2.483	3.17 dBm 95000 GHz 54.41 dBm 50000 GHz
Bi Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm 0,dBm 10,dBm 20,dBm 20,dBm 30,dBm 50,dBm 50,dBm 70,dBm 70,dBm	and Ed 20.00 dBm 35 dB 100/100 D1 -16.817	Offset 2 SWT 22	2.42 dB • R 27.5 μs • V	5 2480M	Mode / Mode / M	Auto FFT 1[1] 2[1]		2.479 2.483	00 3.17 dBm 95000 GHz 54.41 dBm 54.41 dBm
Bi Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm 0,dBm 10,dBm 20,dBm 30,dBm 30,dBm 40,dBm 40,dBm 50,dBm 70,dBm 70,dBm 70,dBm	and Ed 20.00 dBm 35 dB 100/100 D1 -16.817	Offset 2 SWT 22	2.42 dB	5 2480M	Mode / Mode / M	Auto FFT 1[1] 2[1]	northoly Malayin	2.479 2.483 2.483	0N 3.17 dBm 95000 GHz 54.41 dBm 54.41 dBm 0000 GHz 2.576 GHz
Bi Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm 0,dBm 10,dBm 20,dBm 30,dBm 30,dBm 40,dBm 40,dBm 50,dBm 70,dBm 70,dBm 70,dBm	and Ed 20.00 dBm 35 dB 100/100 D1 -16.817	Offset 2 SWT 22 dBm- dBm- hh3 wh2-yW(MA) what X-value	2.42 dB	5 2480M	Mode /	Auto FFT 1[1] 2[1]	northoly Malayin	2.479 2.483	0N 3.17 dBm 95000 GHz 54.41 dBm 54.41 dBm 0000 GHz 2.576 GHz
Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm ddm 10 dBm 20 dBm 20 dBm 30 dBm 30 dBm 50 dBm 70 dBm 70 dBm 70 dBm 70 dBm 11 trat 2.476 arker Type Ref M1 M2	and Ed 20.00 dBm 35 dB 100/100 D1 -16.817 4 4 4 4 5 GHz 1 1 1 1	Offset 2 SWT 22 dBm- dBm- wh-h-m wh-h-m wh-h-m y-value 2.479 2.479 2.479	2.42 dB	5 2480M	Mode / Mode / M M M M	Auto FFT 1[1] 2[1]	northoly Malayin	2.479 2.483 2.483	0N 3.17 dBm 95000 GHz 54.41 dBm 54.41 dBm 0000 GHz 2.576 GHz
Bi Spectrum Ref Level Att SGL Count 1Pk Max 0,dBm 20 cBm 20 cBm 20 cBm 30 dBm 30 dBm 30 dBm 70 dBm 70 dBm 70 dBm 71 dBm 72 dBm 72 dBm 70 dBm 70 dBm 70 dBm 70 dBm 70 dBm	and Ed 20.00 dBm 35 dB 100/100 D1 -16.817 4 4 4 4 4 5 GHz 1 1	Offset 2 SWT 22 dBm dBm M3 wh ¹ , ³ wh ¹ , ³	2,42 dB	5 2480M	Mode /	Auto FFT 1[1] 2[1]	northoly Malayin	2.479 2.483 2.483	0N 3.17 dBm 95000 GHz 54.41 dBm 54.41 dBm 0000 GHz 2.576 GHz





2nort	-					• •			Ant1 No		3		
Spect					<u></u>								
Ref Le Att	evel	20.00 dB 35 c				RBW 100 VBW 300		Mode A	uto FFT				
	ount	100/100			0.0 ps 🖕	1011 000	KI IZ	MOUE A	40111				
1Pk M													
								M	1[1]			-1.25	dBm
10 dBm									I	I	2.401	99200	GHz
) dBm-							М1						
o abiii							_M	١.					
-10 dBr	n_						· · v	2					
						17							
-20 dBr	n												
								1					
-30 dBr	n—												
40 dBr	n—								<u> </u>				
					\sim	1			my	L .			
-50 dBr	n—		_		/					\land			
m	\sim	m	$\wedge \wedge$	$\sim \sim$						han	mm	\sim	5
60 dBr	n—		-										
70 dBr	n—												_
	В) and E	dge	NVN	IT 2-D		001 pt) Pead t1 No-H	opping	_{Spa}	n 8.0 M M M	
Spect	B	and E				0H5 240	2MI) Poor 1 No-H	opping		8	IHz J
Spect Ref Le	B) and E	m Of	fset 2	2.38 dB		2 M	Hz Ant	Bead	opping		8	
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Att	B trum evel	and E	m Of	fset 2	2.38 dB	0H5 240	2 M	Hz Ant	Auto FFT	opping		'n	
Spect Ref Le Att SGL Co) 1Pk M	B trum evel	and E	m Of	fset 2	2.38 dB	0H5 240	2 M	Hz Ant		opping	Emissio	n -1.34	ØBm
Spect Ref Le Att SGL Co	B trum evel	and E	m Of	fset 2	2.38 dB	0H5 240	2 M	Hz Ant Mode /	Auto FFT	opping	Emissio	'n	dBm GHz
Spect Ref Le SGL Co) 1Pk M	B trum evel	and E	m Of	fset 2	2.38 dB	0H5 240	2 M	Hz Ant Mode /	Auto FFT 1[1]	opping	Emissio	n -1.34 95000	dBm GHz dBm
Spect Ref Le Att SGL Co 1Pk M 0 dBm 1 dBm-	B trum evel	and E	m Of	fset 2	2.38 dB	0H5 240	2 M	Hz Ant Mode /	Auto FFT 1[1]	opping	Emissio	-1.34 95000 56.44	dBm GHz dBm
Spect Ref Le SGL Co 1Pk M 10 dBm 10 dBm-	B trum evel	and E	m Of dB SN	fset 2 VT 23	2.38 dB	0H5 240	2 M	Hz Ant Mode /	Auto FFT 1[1]	opping	Emissio	-1.34 95000 56.44	dBm GHz dBm
Spect Ref Le SGL Co IPk M O dBm I dBm- 10 dBr	B trum evel	and E	m Of dB SN	fset 2 VT 23	2.38 dB	0H5 240	2 M	Hz Ant Mode /	Auto FFT 1[1]	opping	Emissio	-1.34 95000 56.44	dBm GHz dBm
Spect Ref Le SGL Co 1Pk M 0 dBm 1 dBm- 10 dBr 20 dBr	B trum evel ount lax	and E	m Of dB SN	fset 2 VT 23	2.38 dB	0H5 240	2 M	Hz Ant Mode /	Auto FFT 1[1]	opping	Emissio	-1.34 95000 56.44	dBm GHz dBm
Spect Ref Le Att SGL Cc (1Pk M 0 dBm 0 dBm 10 dBm 20 dBr 20 dBr	B trum evel ount lax m m	and E	m Of dB SN	fset 2 VT 23	2.38 dB	0H5 240	2 M	Hz Ant Mode /	Auto FFT 1[1]	opping	Emissio	-1.34 95000 56.44	dBm GHz dBm
Spect Ref Le Att SGL Cc (1Pk M 0 dBm 0 dBm 10 dBm 20 dBr 20 dBr	B trum evel ount lax m m	and E	m Of dB SN	fset 2 VT 23	2.38 dB	PH5 240	2 M	Hz Ant Mode /	Auto FFT 1[1]	opping	Emissio	-1.34 95000 56.44	dBm GHz dBm
Spect Ref Le Att SGL CC 11Pk M 0 dBm- 10 dBm- 10 dBm- 10 dBm- 30 dBr 30 dBr	B trun evel lax n n n n	and E 20.00 dB 35 (100/100	m Of JB SV	fset 2 VT 22	2.38 dB 27.5 μs 27.5 μs	PH5 240	2 KHz) kHz) kHz	Mode /	Auto FFT 1[1] 2[1]		2.400	-1.34 95000 56.44 00000	dBm GHz dBm
Gpect Att SGL CC 1Pk M 0 dBm- 10 dBm- 10 dBr 20 dBr 30 dBr 40 dBr	B trum evel ax n n n n	and E 20.00 dB 35 (100/100	m Of JB SV	fset 2 VT 22	2.38 dB	PH5 240	2 KHz) kHz) kHz	Hz Ant Mode /	Auto FFT 1[1] 2[1]		Emissio	-1.34 95000 56.44 00000	dBm GHz dBm
Gpect Att SGL CC 1Pk M 0 dBm- 10 dBm- 10 dBr 20 dBr 30 dBr 40 dBr	B trum evel ax n n n n	and E 20.00 dB 35 (100/100	m Of JB SV	fset 2 VT 22	2.38 dB 27.5 μs 27.5 μs	PH5 240	2 KHz) kHz) kHz	Mode /	Auto FFT 1[1] 2[1]		2.400	-1.34 95000 56.44 00000	dBm GHz dBm
Spect Ref Le Att SGL Cc 1 1Pk M 0 dBm 1 dBm 1 dBm 1 dBm 20 dBm 30 dBr 30 dBr 40 dBr 50 dBr	B trum evel ount lax n n n n	and E 20.00 dB 35 (100/100	m Of JB SV	fset 2 VT 22	2.38 dB 27.5 μs 27.5 μs	PH5 240	2 KHz) kHz) kHz	Mode /	Auto FFT 1[1] 2[1]		2.400	-1.34 95000 56.44 00000	dBm GHz dBm
Spect Ref Le Att SGL Cc 1 1Pk M 0 dBm 1 dBm 1 dBm 1 dBm 20 dBm 30 dBr 30 dBr 40 dBr 50 dBr	B trum evel ount lax n n n n	and E 20.00 dB 35 (100/100	m Of JB SV	fset 2 VT 22	2.38 dB 27.5 μs 27.5 μs	PH5 240	2 KHz) kHz) kHz	Mode /	Auto FFT 1[1] 2[1]		2.400	-1.34 95000 56.44 00000	dBm GHz dBm
Spect Ref Le Att SGL CC O dBm O dBm- 10 dBr 10 dBr 30 dBr 30 dBr 50 dBr 50 dBr 50 dBr 70 dBr	B trum evel lax n n n 2.300	20.00 dB 35 c 100/100	m Of JB SV	fset 2 VT 22	2.38 dB 27.5 μs 27.5 μs	PH5 240	2 KHz) kHz) kHz	Hz Ant Mode / M M	Auto FFT 1[1] 2[1]		2.400	-1.34 95000 56.44 00000	dBm GHz GHz
Spect Ref Le Att SGL CC 11Pk M 0 dBm- 10 dBm 10 dBm 20 dBm 20 dBm 30 dBr 30 dBr 50 dBr 50 dBr 70 dBr 70 dBr 70 dBr	B brum evel ount lax n n n n n 2.300	and E 20.00 dB 35 (100/100	m Of 18 St	fset (NT 2:	2.38 dB 27.5 μs	DH5 240	2001 p	Mode / Mode / M	Auto FFT 1[1] 2[1] بورامین از این از ای از ای از این از این از این از این از ا	entheytraday	2.401 2.400	-1.34 95000 56.44 000000 0000000000000000000000000000	dBm GHz GHz
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