

RADIO TEST REPORT FCC ID: 2AZYA-AC50

Product: Mobile Phone Trade Mark: ACER Model No.: SOSPIRO-AC50 Family Model: SOSPIRO-AC50-B, SOSPIRO-AC50-N Report No.: S23080705802002 Issue Date: Aug 28, 2023

Prepared for

Senwa Global International, S.A. de C.V.

Carretera Mexico-Toluca No. 5324 PB, Colonia El Yaqui Del. Cuajimalpa de Morelos, C.P. 05320 Ciudad de Mexico, Mexico

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	Senwa Global International, S.A. de C.V.
Address:	Carretera Mexico-Toluca No. 5324 PB, Colonia El Yaqui Del. Cuajimalpa de Morelos, C.P. 05320 Ciudad de Mexico, Mexico
Manufacturer's Name:	Senwa Mobile China Ltd
Address:	A611, Languang technology building, No. 27, Gaoxin North 6th Road, songpingshan community, Xili street, Nanshan District, Shenzhen, Guangdong Province
Product description	
Product name	Mobile Phone
Model and/or type reference:	SOSPIRO-AC50
Family Model	SOSPIRO-AC50-B, SOSPIRO-AC50-N
Sample number	S230807058003

Measurement Procedure Used:

APPLICABLE STANDARDSAPPLICABLE STANDARD/ TEST PROCEDURETEST RESULTFCC 47 CFR Part 2, Subpart JFCC 47 CFR Part 15, Subpart CFCC 47 CFR Part 15, Subpart CCompliedANSI C63.10-2013CompliedKDB 558074 D01 15.247 Meas Guidance v05r02Complex Complex C

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 08, 2023 ~ Aug 28, 2023	
Testing Engineer	:	12 Men lin	
		(Allen Liu)	
Authorized Signatory	:	Ales	
		(Alex Li)	

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SUMMARY OF TEST RESULTS 2

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FCC Part15 (15.247), Subpart C							
Standard Section Test Item Verdict Remark							
15.207 Conducted Emission PASS							
15.247 (a)(2) 6dB Bandwidth PASS							
15.247 (b) Peak Output Power PASS							
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS					
15.247 (e)	Power Spectral Density	PASS					
15.247 (d) Band Edge Emission PASS		PASS					
15.247 (d) Spurious RF Conducted Emission PASS							
15.203	Antenna Requirement	PASS					

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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&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, China.

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
-	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	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.
	o o o i
Site Location	: 1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei
	Community, Hangcheng Street, Baoan District, Shenzhen, Guangdong,
	China

3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±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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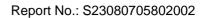
4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment Mobile Phone					
Trade Mark	ACER				
FCC ID	2AZYA-AC50				
Model No.	SOSPIRO-AC50				
Family Model	SOSPIRO-AC50-B, SOSPIRO-AC50-N				
Model Difference	All models are the same circuit and RF module, except the model name and colour.				
Operating Frequency	2402MHz~2480MHz				
Modulation	GFSK				
Number of Channels	40 Channels				
Antenna Type	PIFA Antenna				
Antenna Gain	-1.32dBi				
Adapter	Model: SGCH0018 Input: 100-240Vca 50/60Hz 0.5A Output: 5.0Vcc 3A, 9.0Vcc 2A 18W				
Battery	DC 3.87V, 4900mAh				
Power supply	DC 3.87V from battery or DC 5V from adapter				
HW Version	ums5121h10_V1.0				
SW Version	Acer_AC50_Ver01				

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.





Revision History

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Revision history					
Report No.	Version	Description	Issued Date		
S23080705802002	Rev.01	Initial issue of report	Aug 28, 2023		





5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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/2Mbps for GFSK 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	2404
19	2440
20	2442
38	2478
39	2480

Note: fc=2402MHz+kx2MHz k=0 to 39

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

Test Cases			
Test Item	Data Rate/ Modulation		
AC Conducted Emission	Mode 1: normal link mode		
	Mode 1: normal link mode		
Radiated Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps		
Cases	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps		
	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps		
Conducted Test	Mode 2: GFSK Tx Ch00_2402MHz_1Mbps/2Mbps		
Conducted Test	Mode 3: GFSK Tx Ch19_2440MHz_1Mbps/2Mbps		
Cases	Mode 4: GFSK Tx Ch39_2480MHz_1Mbps/2Mbps		

Note:

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

2. AC power line Conducted Emission was tested under maximum output power.

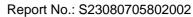
3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

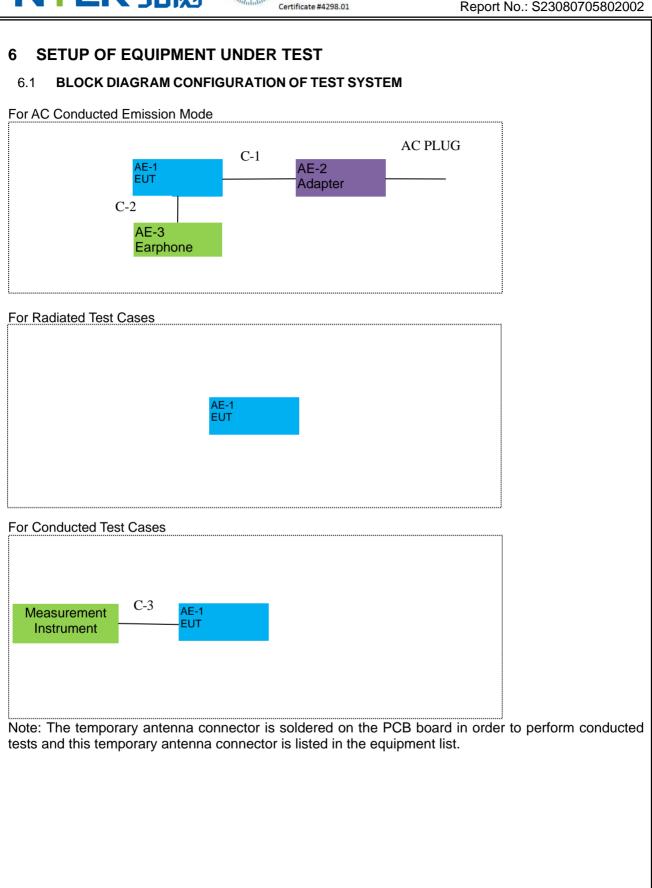
4. EUT built-in battery-powered, the battery is fully-charged.

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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	Mobile Phone	SOSPIRO-AC50	N/A	EUT
AE-2	Adapter	SGCH0018	N/A	Peripherals
AE-3	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

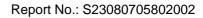
Radiation& Conducted Test equipment

	Und Conducted	loot oquipinont					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2023.03.27	2024.03.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2023.03.27	2024.03.26	1 year
4	Test Receiver	R&S	ESPI7	101318	2023.03.27	2024.03.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2023.03.27	2024.03.26	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2022.11.08	2023.11.07	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2023.05.29	2024.05.28	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2022.11.08	2023.11.07	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2022.11.08	2023.11.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2022.11.08	2023.11.07	1 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

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





AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2023.03.27	2024.03.26	1 year
2	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2023.05.06	2026.05.05	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

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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

Frequency(MHz)	Conducted Emission Limit		
Frequency(IVILIZ)	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

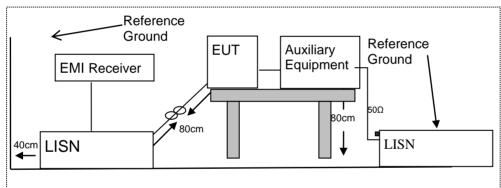
2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

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

7.1.4 Test Configuration



7.1.5 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.





7.1.6 Test Results

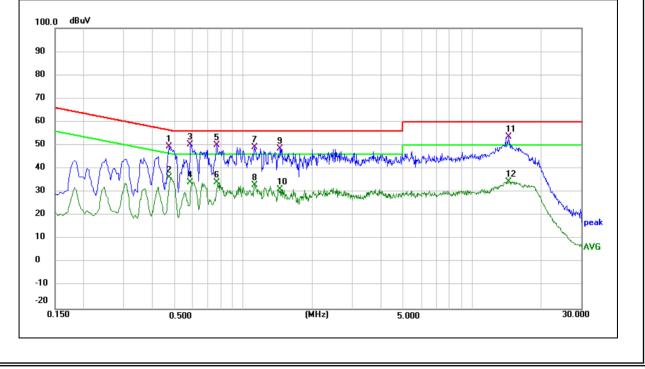
EUT:	Mobile Phone	Model Name :	SOSPIRO-AC50
Temperature:	22 °C	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4740	38.47	11.01	49.48	56.44	-6.96	QP
0.4740	25.10	11.01	36.11	46.44	-10.33	AVG
0.5899	39.13	11.21	50.34	56.00	-5.66	QP
0.5899	22.88	11.21	34.09	46.00	-11.91	AVG
0.7660	38.40	11.52	49.92	56.00	-6.08	QP
0.7660	22.65	11.52	34.17	46.00	-11.83	AVG
1.1220	36.91	12.25	49.16	56.00	-6.84	QP
1.1220	20.70	12.25	32.95	46.00	-13.05	AVG
1.4420	35.81	12.86	48.67	56.00	-7.33	QP
1.4420	18.38	12.86	31.24	46.00	-14.76	AVG
14.5140	43.30	10.28	53.58	60.00	-6.42	QP
14.5140	24.18	10.28	34.46	50.00	-15.54	AVG

Remark:

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









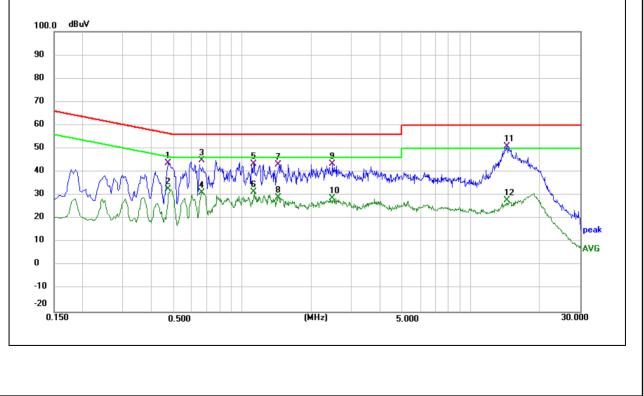
EUT:	Mobile Phone	Model Name :	SOSPIRO-AC50
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorly
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.4740	32.75	11.01	43.76	56.44	-12.68	QP
0.4740	21.61	11.01	32.62	46.44	-13.82	AVG
0.6660	33.51	11.33	44.84	56.00	-11.16	QP
0.6660	19.91	11.33	31.24	46.00	-14.76	AVG
1.1180	31.31	12.25	43.56	56.00	-12.44	QP
1.1180	19.23	12.25	31.48	46.00	-14.52	AVG
1.4340	30.25	12.85	43.10	56.00	-12.90	QP
1.4340	16.29	12.85	29.14	46.00	-16.86	AVG
2.4739	28.45	14.92	43.37	56.00	-12.63	QP
2.4739	13.77	14.92	28.69	46.00	-17.31	AVG
14.4100	40.72	10.28	51.00	60.00	-9.00	QP
14.4100	17.45	10.28	27.73	50.00	-22.27	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 1 CC 1 art 13.203, Restricted bands			
MHz	MHz	GHz	
16.42-16.423	399.9-410	4.5-5.15	
16.69475-16.69525	608-614	5.35-5.46	
16.80425-16.80475	960-1240	7.25-7.75	
25.5-25.67	1300-1427	8.025-8.5	
37.5-38.25	1435-1626.5	9.0-9.2	
73-74.6	1645.5-1646.5	9.3-9.5	
74.8-75.2	1660-1710	10.6-12.7	
123-138	2200-2300	14.47-14.5	
149.9-150.05	2310-2390	15.35-16.2	
156.52475-156.52525	2483.5-2500	17.7-21.4	
156.7-156.9	2690-2900	22.01-23.12	
162.0125-167.17	3260-3267	23.6-24.0	
167.72-173.2	3332-3339	31.2-31.8	
240-285	3345.8-3358	36.43-36.5	
322-335.4	3600-4400	(2)	
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHzMHz16.42-16.423399.9-41016.69475-16.69525608-61416.80425-16.80475960-124025.5-25.671300-142737.5-38.251435-1626.573-74.61645.5-1646.574.8-75.21660-1710123-1382200-2300149.9-150.052310-2390156.52475-156.525252483.5-2500156.7-156.92690-2900162.0125-167.173260-3267167.72-173.23332-3339240-2853345.8-3358	

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

Eroguopov(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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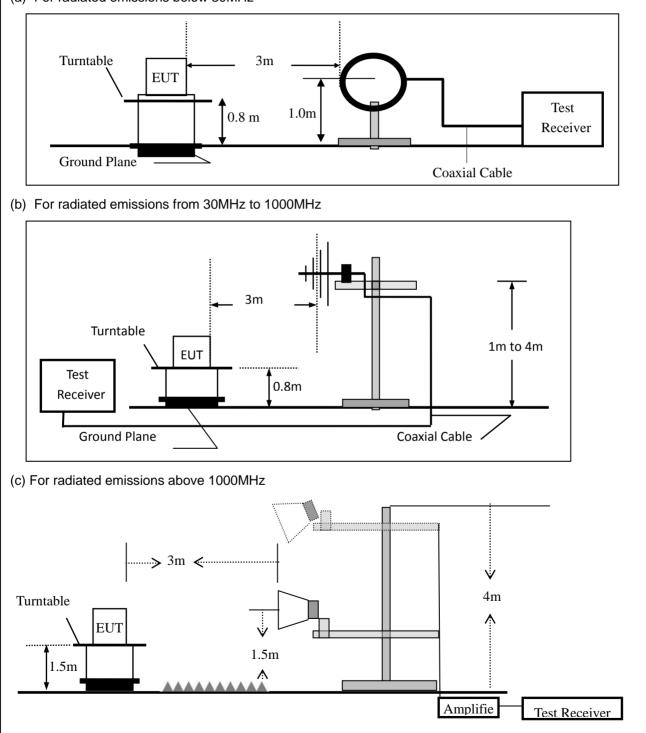


7.2.3 Measuring Instruments

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







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 / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported



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

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Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth		
30 to 1000	QP	120 kHz	300 kHz		
Above 4000	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:	Mobile Phone	Model No.:	SOSPIRO-AC50
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/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:	Mobile Phone	Model Name :	SOSPIRO-AC50
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Mode 4 2Mbps
Test Voltage :	DC 3.87V		

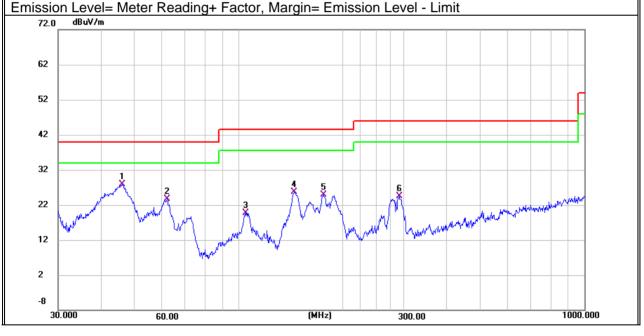
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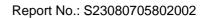
Polar	Frequency	Meter Reading	Factor Emission Level		Limits	Margin	Remark	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	3uV/m) (dBuV/m)			
V	46.0164	12.95	14.93	27.88	40.00	-12.12	QP	
V	61.9951	10.30	13.49	23.79	40.00	-16.21	QP	
V	104.5361	6.60	13.04	19.64	43.50	-23.86	QP	
V	144.8418	16.57	9.15	25.72	43.50	-17.78	QP	
V	175.6516	14.49	10.42	24.91	43.50	-18.59	QP	
V	291.0360	10.59	13.89	24.48	46.00	-21.52	QP	

Remark:

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







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark			
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)				
Н	46.3402	1.74	14.93	16.67	40.00	-23.33	QP			
Н	54.6429	0.68	14.53	15.21	40.00	-24.79	QP			
Н	73.3593	7.60	9.59	17.19	40.00	-22.81	QP			
Н	105.6415	11.91	12.91	24.82	43.50	-18.68	QP			
Н	145.8611	9.23	9.22	18.45	43.50	-25.05	QP			
Н	294.1137	9.05	13.96	23.01	46.00	-22.99	QP			
	Remark: Emission Level= Meter Reading+ Factor, Margin= Emission Level - Limit									
62 - 52 - 42 -										
32 - 22 -	1 2	3	4		s Munimpersantine good on a	nelsel with a standard	ataat			
12	with new with a with my	www.August	Mry for	w Warman P	Munimprovement					
-8										
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UT:	Mobi	le Phon	е	Ν	Mode	el No.:		SOSPIRO	-AC50		
emperature:	20 ℃]		F	Relat	tive Humi	dity:	48%			
est Mode:	Mode	e2/Mode	3/Mode4	Т	Test	By:		Allen Liu			
						-					
Frequency	Read Level	Cable loss	Antenna Factor	Prean Facto		Emission Level	Limits	Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB))	(dBµV/m)	(dBµV/m) (dB)			
			Low Ch	nannel ((2402	MHz)(GFS	K)Above	1G			
4804.338	61.34	5.21	35.59	44.3	0	57.84	74.00	-16.16	Pk	Vertical	
4804.338	42.48	5.21	35.59	44.3	0	38.98	54.00	-15.02	AV	Vertical	
7206.107	61.97	6.48	36.27	44.6	0	60.12	74.00	-13.88	Pk	Vertical	
7206.107	41.89	6.48	36.27	44.60	0	40.04	54.00	-13.96	AV	Vertical	
4804.169	64.41	5.21	35.55	44.3	0	60.87	74.00	-13.13	Pk	Horizontal	
4804.169	41.79	5.21	35.55	44.30	0	38.25	54.00	-15.75	AV	Horizontal	
7206.214	61.59	6.48	36.27	44.5	2	59.82 74.0		-14.18	Pk	Horizontal	
7206.214	41.84	6.48	36.27	44.5	2	40.07	54.00	-13.93	AV	Horizontal	
	Mid Channel (2440 MHz)(GFSK)Above 1G										
4880.473	62.78	5.21	35.66	44.20	0	59.45	74.00	-14.55	Pk	Vertical	
4880.473	43.69	5.21	35.66	44.20	0	40.36	54.00	-13.64	AV	Vertical	
7320.265	65.82	7.10	36.50	44.4	3	64.99	74.00	-9.01	Pk	Vertical	
7320.265	42.09	7.10	36.50	44.4	3	41.26	54.00	-12.74	AV	Vertical	
4880.366	62.82	5.21	35.66	44.20	0	59.49	74.00	-14.51	Pk	Horizontal	
4880.366	40.16	5.21	35.66	44.20	0	36.83	54.00	-17.17	AV	Horizontal	
7320.234	59.64	7.10	36.50	44.4	3	58.81	74.00	-15.19	Pk	Horizontal	
7320.234	44.76	7.10	36.50	44.43	3	43.93	54.00	-10.07	AV	Horizontal	
	I	I	High Ch	nannel (2	2480	MHz)(GFS	K) Above	e 1G		I	
4960.482	63.08	5.21	35.52	44.2	1	59.60	74.00	-14.40	Pk	Vertical	
4960.482	42.68	5.21	35.52	44.2	1	39.20	54.00	-14.80	AV	Vertical	
7440.131	65.10	7.10	36.53	44.6	0	64.13	74.00	-9.87	Pk	Vertical	
7440.131	48.16	7.10	36.53	44.60	0	47.19	54.00	-6.81	AV	Vertical	
4960.326	63.28	5.21	35.52	44.2	1	59.80	74.00	-14.20	Pk	Horizontal	
4960.326	44.30	5.21	35.52	44.2	1	40.82	54.00	-13.18	AV	Horizontal	
7440.199	63.97	7.10	36.53	44.60	0	63.00	74.00	-11.00	Pk	Horizontal	
7440.199	45.79	7.10	36.53	44.60	0	44.82	54.00	-9.18	AV	Horizontal	

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2)All other emissions more than 20dB below the limit.

(3)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst





	Spurious E	mission in	Restricte	ed Band 2	310-2390	MHz and	2483.	5-25	00MHz			
EUT	ſ:	Mobile P	hone		Model	No.:		SOSPIRO-AC50				
Ten	perature:	20 ℃			Relativ	Relative Humidity:			48%			
Tes	t Mode:	Mode2/ N	Mode4		Test B	y:		Aller	n Liu			
	Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	iits	Margin	Detector	Comment	
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ	V/m)	(dB)	Туре		
	1Mbps(GFSK)											
	2310.00	63.02	2.97	27.80	43.80	49.99	74	4	-24.01	Pk	Horizontal	
	2310.00	42.36	2.97	27.80	43.80	29.33	54	4	-24.67	AV	Horizontal	
	2310.00	61.75	2.97	27.80	43.80	48.72	74	4	-25.28	Pk	Vertical	
	2310.00	42.30	2.97	27.80	43.80	29.27	54	4	-24.73	AV	Vertical	
	2390.00	63.44	3.14	27.21	43.80	49.99	74	4	-24.01	Pk	Vertical	
	2390.00	42.68	3.14	27.21	43.80	29.23	54	4	-24.77	AV	Vertical	
	2390.00	64.74	3.14	27.21	43.80	51.29	74	4	-22.71	Pk	Horizontal	
	2390.00	42.74	3.14	27.21	43.80	29.29	54	4	-24.71	AV	Horizontal	
	2483.50	62.95	3.58	27.70	44.00	50.23	74	4	-23.77	Pk	Vertical	
	2483.50	42.34	3.58	27.70	44.00	29.62	54	4	-24.38	AV	Vertical	
	2483.50	65.68	3.58	27.70	44.00	52.96	74	4	-21.04	Pk	Horizontal	
	2483.50	43.21	3.58	27.70	44.00	30.49	54	4	-23.51	AV	Horizontal	

Note: (1) All other emissions more than 20dB below the limit. (2)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst

Spurious E	Emission in	Restricte	ed Band 32	260MHz-1	18000MHz					
EUT:	Mobile	Phone		Model	No.:		SOSPIRO-AC50			
emperature:	20 ℃			Relative Humidity:			48%			
est Mode:	Mode2/ Mode4			Test By	/:		Allen	Liu		
		-	-		-				-	-
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lii	mits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBj	uV/m)	(dB)	Туре	
3260	63.35	4.04	29.57	44.70	52.26	-	74	-21.74	Pk	Vertical
3260	58.21	4.04	29.57	44.70	47.12	ł	54	-6.88	AV	Vertical
3260	66.15	4.04	29.57	44.70	55.06	-	74	-18.94	Pk	Horizontal
3260	59.17	4.04	29.57	44.70	48.08	ę	54	-5.92	AV	Horizontal
3332	65.21	4.26	29.87	44.40	54.94	-	74	-19.06	Pk	Vertical
3332	57.44	4.26	29.87	44.40	47.17	ł	54	-6.83	AV	Vertical
3332	66.79	4.26	29.87	44.40	56.52	-	74	-17.48	Pk	Horizontal
3332	53.44	4.26	29.87	44.40	43.17	į	54	-10.83	AV	Horizontal
17797	45.93	10.99	43.95	43.50	57.37	-	74	-16.63	Pk	Vertical
17797	36.40	10.99	43.95	43.50	47.84	ļ	54	-6.16	AV	Vertical
17788	45.69	11.81	43.69	44.60	56.59	-	74	-17.41	Pk	Horizontal
17788	36.87	11.81	43.69	44.60	47.77	ų	54	-6.23	AV	Horizontal

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Note: (1) All other emissions more than 20dB below the limit. (2)Only the worst data is recorded in the report, the data rates (2Mbps for GFSK modulation) test result is the worst



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

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7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

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 Subclause 11.8 of ANSI C63.10

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:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AC50
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu





7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02s Section 6.

7.4.2 Conformance Limit

No limit requirement.

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 zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value. Set VBW \geq RBW. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T \leq 16.7 microseconds.)

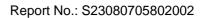
The transmitter output is connected to the Spectrum Analyzer. We tested accroding to the zero-span measurement method, 6.0)b) in KDB 558074

The largest available value of RBW is 8 MHz and VBW is 50 MHz. The zero-span method of measuring duty cycle shall not be used if $T \le 6.25$ microseconds. (50/6.25 = 8)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are > 50/T.

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 = Zero Span RBW = 8MHz(the largest available value) VBW = 8MHz (\geq RBW) Number of points in Sweep >100 Detector function = peak Trace = Clear write Measure T_{total} and T_{on} Calculate Duty Cycle = T_{on} / T_{total}





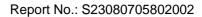
7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AC50
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu

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7.5 **PEAK OUTPUT POWER**

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

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7.5.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

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 Subclause 11.9.1.1 of ANSI C63.10 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: Set the RBW \geq DTS bandwidth. Set VBW =3*RBW. Set the span \geq 3*RBW Set Sweep time = auto couple. Set Detector = peak. Set Trace mode = max hold. Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

7.5.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AC50
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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 Measurement Procedure Subclause 11.10.2 of ANSI C63.10 This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

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.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW \geq 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.





7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AC50
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Allen Liu



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 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.

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 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

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.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

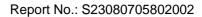
Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AC50
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode4	Test By:	Allen Liu





7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

Certificate #4298.01

7.8.2 Measuring Instruments

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

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 30MHz to 26.5GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz 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.





7.9 ANTENNA APPLICATION

7.9.1 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.

7.9.2 Result

The EUT antenna is permanent attached PIFA antenna (Gain: -1.32 dBi). It comply with the standard requirement.



8 TEST RESULTS

1M:

8.1.1 **Duty Cycle**

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	88.08	0.55	0.61
NVNT	BLE 1M	2440	Ant1	88.04	0.55	0.61
NVNT	BLE 1M	2480	Ant1	88.08	0.55	0.61

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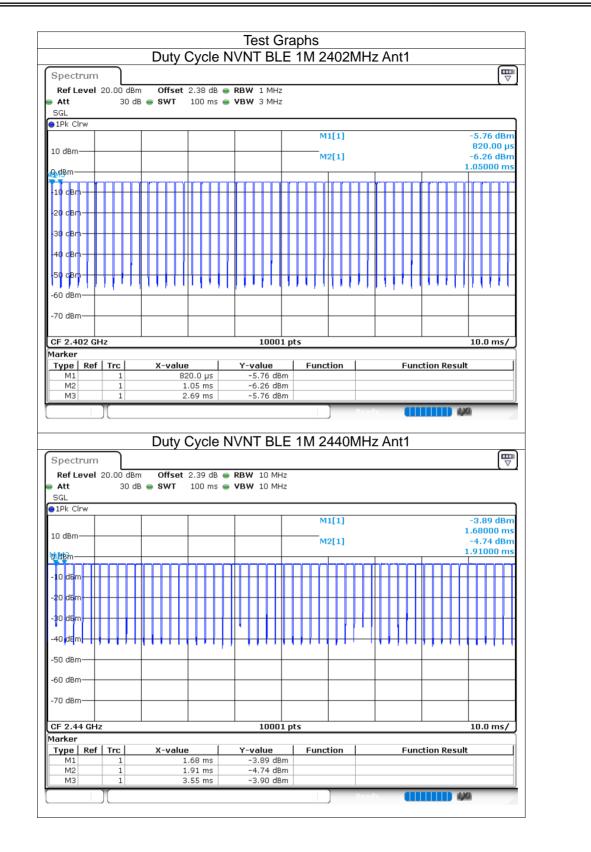


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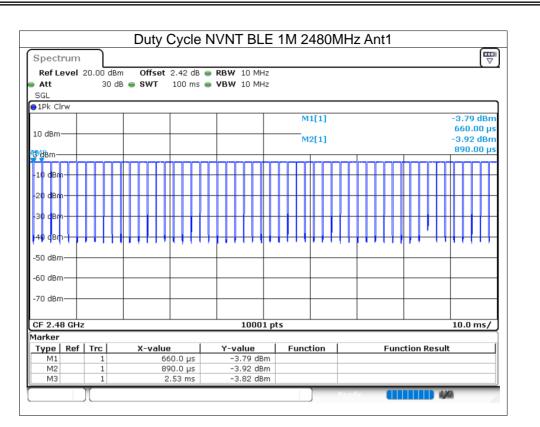
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Certificate #4298.01

Report No.: S23080705802002







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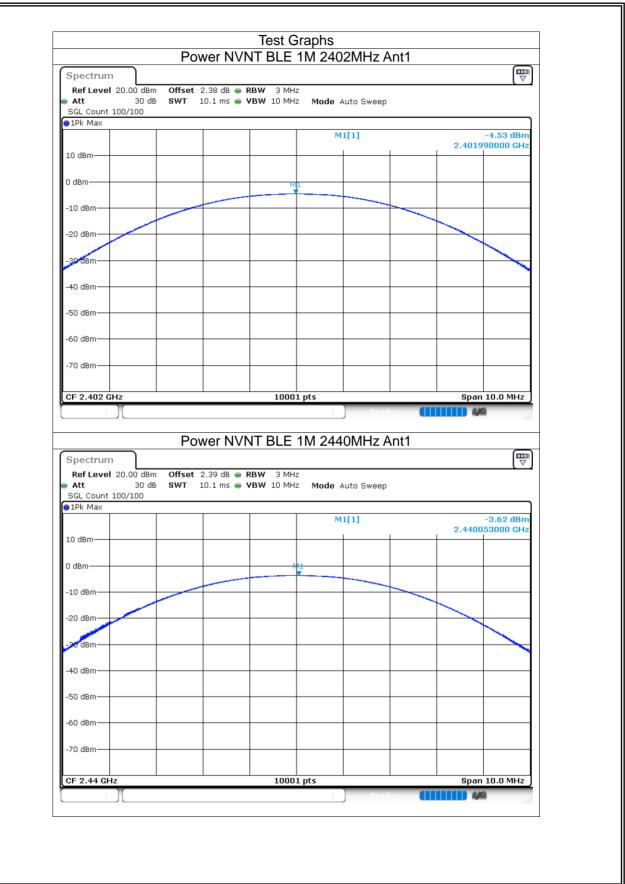




8.1.2 Maximum Conducted Output Power

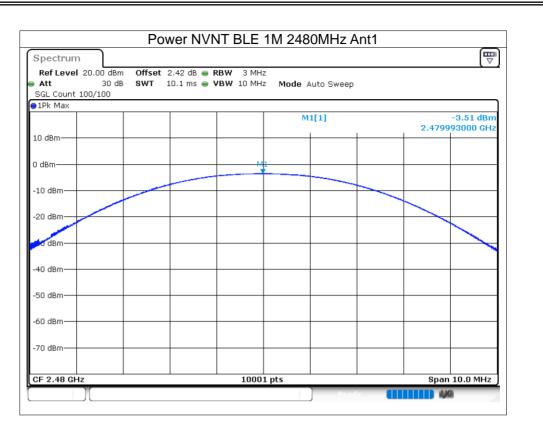
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-4.53	30	Pass
NVNT	BLE 1M	2440	Ant1	-3.62	30	Pass
NVNT	BLE 1M	2480	Ant1	-3.51	30	Pass





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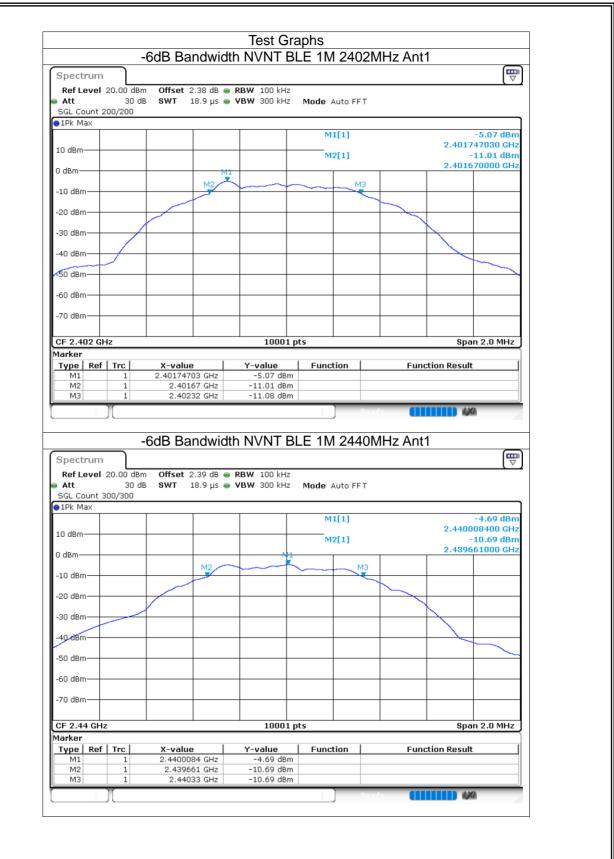




8.1.3 -6dB Bandwidth

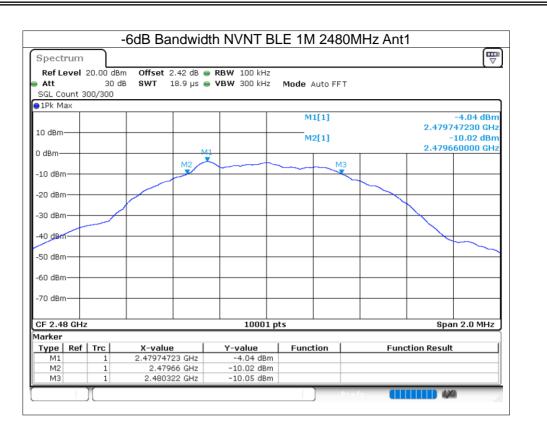
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.65	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.669	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.662	0.5	Pass





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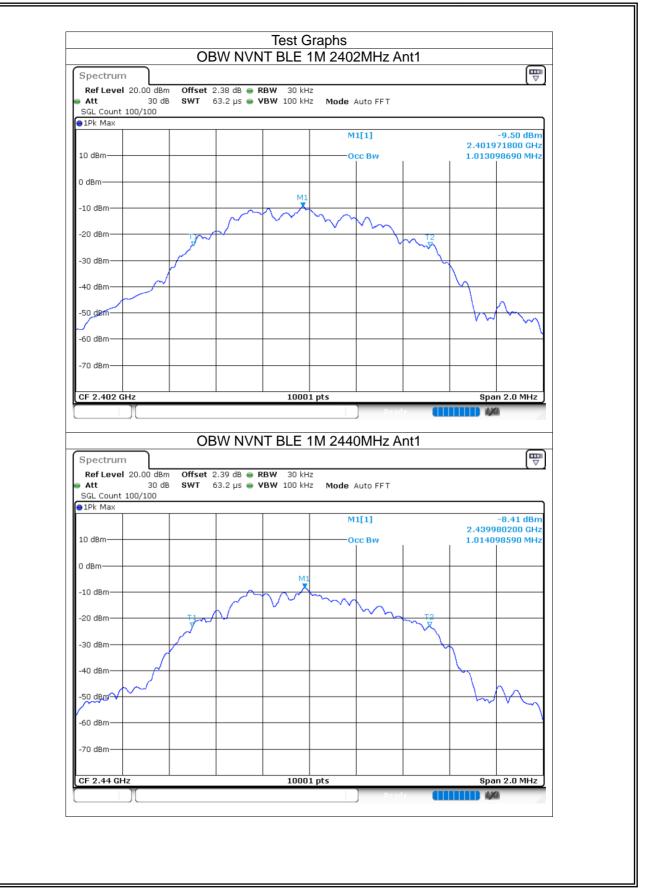




8.1.4 Occupied Channel Bandwidth

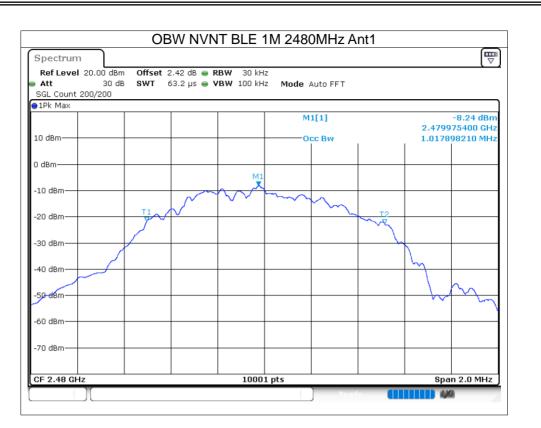
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.013
NVNT	BLE 1M	2440	Ant1	1.014
NVNT	BLE 1M	2480	Ant1	1.018





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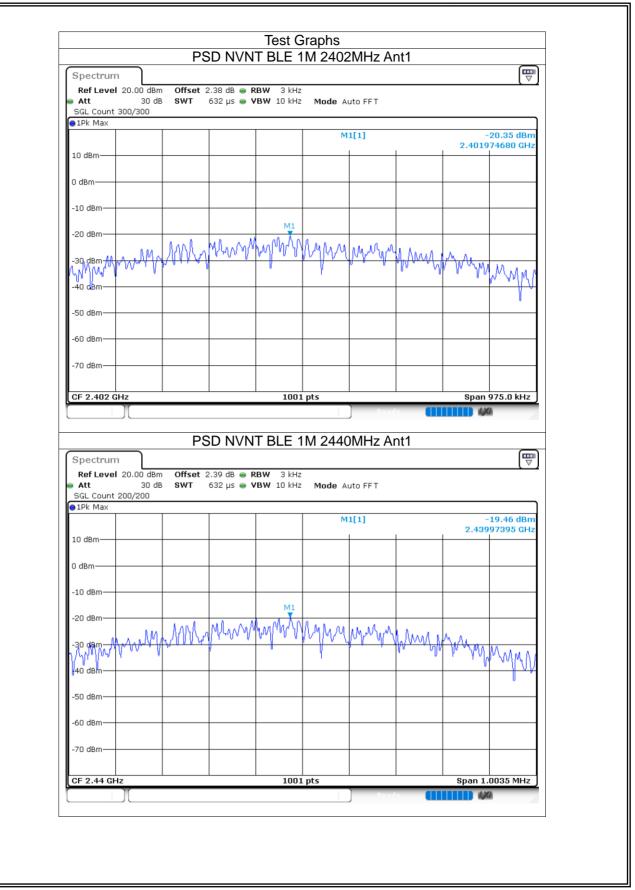




8.1.5 Maximum Power Spectral Density Level

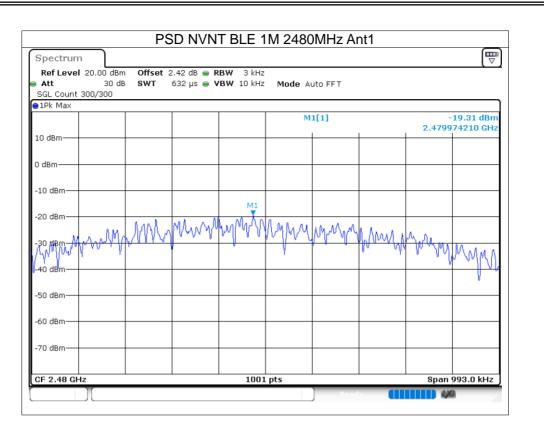
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-20.35	8	Pass
NVNT	BLE 1M	2440	Ant1	-19.46	8	Pass
NVNT	BLE 1M	2480	Ant1	-19.31	8	Pass





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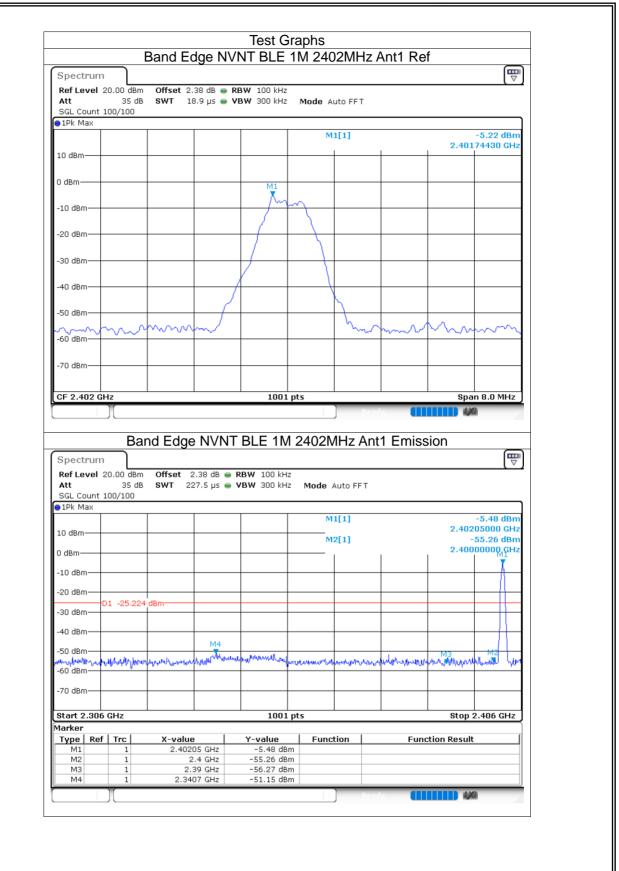




8.1.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-45.92	-20	Pass
NVNT	BLE 1M	2480	Ant1	-38.45	-20	Pass





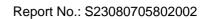
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Spectrun	n									
-	30.00 dBm	Offset 2.	42 dB 😑 🖡	RBW 100 kHz						
Att	45 dB	SWT 18	8.9 µs 👄 🎙	/BW 300 kHz	Mode A	uto FFT				
SGL Count	100/100									
●1Pk Max				1		1[1]			4 40 dBm	
					IN	1[1]		2.480	-4.49 dBm 00800 GHz	
20 dBm				+						
10 dBm										
0 dBm				M	1					
				1 ~*						
-10 dBm—					h					
-20 dBm—				+	<u> </u>					
					\					
-30 dBm				+					<u> </u>	
				/	1					
-40 dBm			_	1		h		_		
\sim	\sim	m	m	1		m	\sim	m	\sim	
-50 dBm										
co de										
-60 dBm										
CF 2.48 GF	lz			1001	pts			Spa	n 8.0 MHz	
		d E dava			2400	Read				_
Spectrum		nd Edge	∘ NVNT	BLE 1M	24801) /IHz Ant	1 Emiss	ion	Ē	_
Spectrun	n] Peed /IHz Ant	1 Emiss	ion		_
		Offset 2	2.42 dB 👄	RBW 100 kHz	1		1 Emiss	ion		_
Ref Level Att SGL Count	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄		1		1 Emiss	ion		-
Ref Level Att SGL Count	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄	RBW 100 kHz	Mode .	Auto FFT	1 Emiss	ion		-
Ref Level Att SGL Count 1Pk Max	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄	RBW 100 kHz	Mode .		1 Emiss		-4.87 dBm	_
Ref Level Att SGL Count	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479		
Ref Level Att SGL Count 1Pk Max 20 dBm	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479	-4.87 dBm 975000 GHz	_
Ref Level Att SGL Count 1Pk Max 20 dBm	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479	-4.87 dBm 075000 GHz -45.54 dBm	-
Ref Level Att SGL Count 1Pk Max 20 dBm	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479	-4.87 dBm 075000 GHz -45.54 dBm	-
Ref Level Att SGL Count 1Pk Max 20 dBm	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479	-4.87 dBm 075000 GHz -45.54 dBm	-
Ref Level Att SGL Count 1Pk Max 20 dBm- 10 dBm- -10 dBm-	n 30.00 dBm 45 dB	Offset 2	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479	-4.87 dBm 075000 GHz -45.54 dBm	-
Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	n 30.00 dBm 45 dB 100/100	Offset 2 SWT 22	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479	-4.87 dBm 075000 GHz -45.54 dBm	-
Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	n 30.00 dBm 45 dB	Offset 2 SWT 22	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479	-4.87 dBm 075000 GHz -45.54 dBm	-
Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 cBm -30 cBm	n 30.00 dBm 45 dB 100/100	Offset 2 SWT 22	2.42 dB 👄	RBW 100 kHz	Mode . M	Auto FFT	1 Emiss	2.479	-4.87 dBm 075000 GHz -45.54 dBm	-
Ref Level Att SGL Count • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	n 30.00 dBm 45 dB 100/100 	Offset 2 SWT 22	42 dB 	RBW 100 kHz YBW 300 kHz	Mode M	Auto FFT 1[1] 2[1]		2.479	-4.87 dBm 75000 GHz -45.54 dBm 50000 GHz	-
Ref Level Att SGL Count • 1Pk Max 20 dBm	n 30.00 dBm 45 dB 100/100 01 -24.489	Offset 2 SWT 22	42 dB 	RBW 100 kHz YBW 300 kHz	Mode M	Auto FFT 1[1] 2[1]	1 Emiss	2.479	-4.87 dBm 75000 GHz -45.54 dBm 50000 GHz	-
Ref Level Att SGL Count ● 1Pk Max 20 dBm	n 30.00 dBm 45 dB 100/100 	Offset 2 SWT 22	42 dB 	RBW 100 kHz YBW 300 kHz	Mode M	Auto FFT 1[1] 2[1]		2.479	-4.87 dBm 75000 GHz -45.54 dBm 50000 GHz	
Ref Level Att SGL Count ● 1Pk Max 20 dBm	n 30.00 dBm 45 dB 100/100 	Offset 2 SWT 22	42 dB 	RBW 100 kHz YBW 300 kHz	Mode M	Auto FFT 1[1] 2[1]		2.479	-4.87 dBm 75000 GHz -45.54 dBm 50000 GHz	
Ref Level Att SGL Count ● 1Pk Max 20 dBm	n 30.00 dBm 45 dB 100/100 D1 -24.489 M4	Offset 2 SWT 22	42 dB 	RBW 100 kHz VBW 300 kHz	Mode M M M	Auto FFT 1[1] 2[1]		2.475 2.483	-4.87 dBm 75000 GHz -45.54 dBm 50000 GHz	
Ref Level Att SGL Count 9 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	n 30.00 dBm 45 dB 100/100 D1 -24.489 M4	Offset 2 SWT 22	42 dB 	RBW 100 kHz YBW 300 kHz	Mode M M M	Auto FFT 1[1] 2[1]		2.475 2.483	-4.87 dBm 75000 GHz -45.54 dBm 50000 GHz	
Ref Level Att SGL Count ■ 1Pk Max 20 dBm	0 30.00 dBm 45 dB 100/100 01 -24.489 M4 M4 M4 6 GHz	Offset 2 SWT 22	42 dB ● .7.5 µs ● 	RBW 100 kHz VBW 300 kHz	Mode M M M	Auto FFT 1[1] 2[1]		2.475 2.483	-4.87 dBm 75000 GHz -45.54 dBm 550000 GHz 	
Ref Level Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm -60 dBm Type Re Marker Type	1 30.00 dBm 45 dB 100/100 	Offset 2 SWT 22 dBm	2.42 dB 7.5 μs 	RBW 100 kHz VBW 300 kHz	mode	Auto FFT 1[1] 2[1]		2.475 2.483	-4.87 dBm 75000 GHz -45.54 dBm 550000 GHz 	
Ref Level Att SGL Count SGL Count 110 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm Start 2.47 Marker Type M1	1 30.00 dBm 45 dB 100/100 D1 -24.489 M4 6 GHz f Trc 1 1	Offset 2 SWT 22 dBm	2.42 dB 7.5 μs 	RBW 100 kHz VBW 300 kHz 	۲ Mode م	Auto FFT 1[1] 2[1]		2.475 2.483	-4.87 dBm 75000 GHz -45.54 dBm 550000 GHz 	
Ref Level Att SGL Count SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm Start 2.470 Marker Type M1 M2 M3	1 30.00 dBm 45 dB 100/100 01 -24.489 M4 M4 6 GHz f Trc 1 1 1 1	Offset 2 SWT 22 dBm dBm <u>V13</u> Aur Aur Aur Aur Aur Aur Aur Aur Aur Aur	42 dB ● 	RBW 100 kHz VBW 300 kHz Image: state st	: Mode . 	Auto FFT 1[1] 2[1]		2.475 2.483	-4.87 dBm 75000 GHz -45.54 dBm 550000 GHz 	
Ref Level Att SGL Count SGL Count 110 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm Start 2.47 Marker Type M1	1 30.00 dBm 45 dB 100/100 D1 -24.489 M4 6 GHz f Trc 1 1	Offset 2 SWT 22 dBm dBm <u>V13</u> Aur Aur Aur Aur Aur Aur Aur Aur Aur Aur	2.42 dB 7.5 μs 	RBW 100 kHz VBW 300 kHz 	: Mode . 	Auto FFT 1[1] 2[1]		2.479 2.483 مریایا ^{رالی} الاستالد Stop	-4.87 dBm 75000 GHz -45.54 dBm 550000 GHz 	

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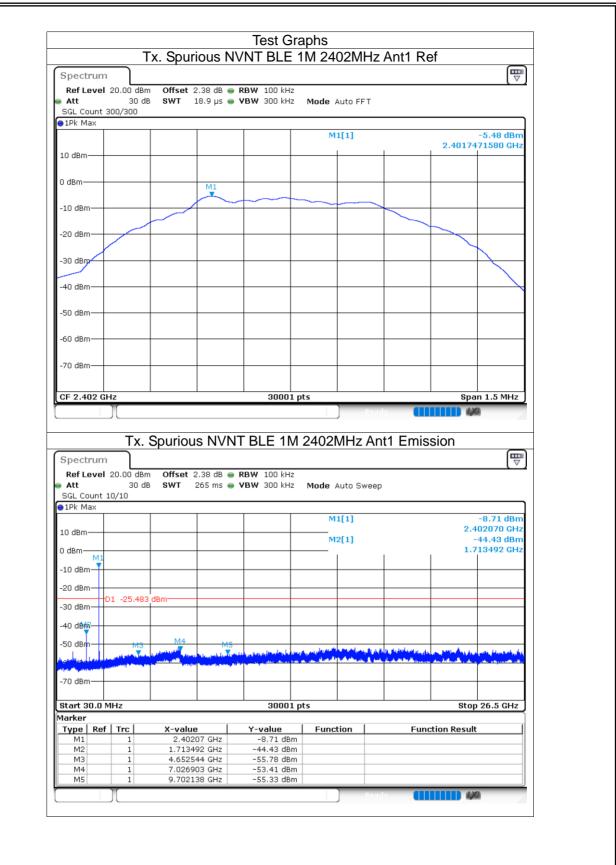


8.1.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-38.94	-20	Pass
NVNT	BLE 1M	2440	Ant1	-41	-20	Pass
NVNT	BLE 1M	2480	Ant1	-44.91	-20	Pass

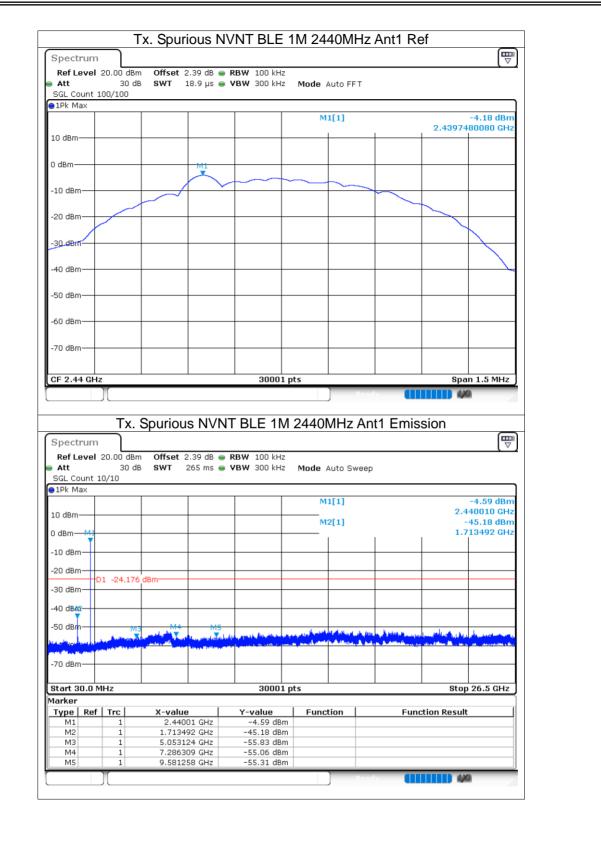
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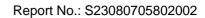
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Spectrum Ref Level	20.00 dBm			W 100 kHz	Manda /				
SGL Count 2		SWT 18.	a ha 🥌 AB	W 300 kHz	Mode Au	to FFT			
9 1Pk Max	200/200								
					M1[11			-4.13 dBm
					mit	-4		2.47974	71580 GHz
10 dBm									
0 dBm			Mi						
			×						
-10 dBm			-	-	~	\rightarrow			
-20 dBm								~	
-30 dBm									
40 dBm									
-50 dBm									└───┨│
-60 dBm									┼───┨│
-70 dBm									└───┨│
								Spa	n 1.5 MHz
CF 2.48 GH)(Spurious	NVNT	BLE 1M		Ready Hz Ant1	I Emiss		
	Tx. 5	Offset 2.4	2 dB 🖷 RB		2480M		I Emiss		
Spectrum Ref Level Att SGL Count 3	Tx. 3	Offset 2.4	2 dB 🖷 RB	BLE 1M	2480M		L Emiss		
Spectrum Ref Level	Tx. 3	Offset 2.4	2 dB 🖷 RB	BLE 1M	2480M Mode Au	to Sweep	L Emiss		
Spectrum Ref Level Att SGL Count 1 91Pk Max	Tx. 3	Offset 2.4	2 dB 🖷 RB	BLE 1M	2480M	to Sweep	I Emiss	sion	-7.61 dBm
Spectrum Ref Level Att SGL Count 3	Tx. 3	Offset 2.4	2 dB 🖷 RB	BLE 1M	2480M Mode Au	to Sweep 1]	I Emiss	sion 2.4	
Spectrum Ref Level Att SGL Count 1 91Pk Max	Tx. 3	Offset 2.4	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep 1]	I Emiss	sion 2.4	-7.61 dBm
Spectrum Ref Level Att SGL Count S IPk Max 10 dBm 0 dBm	Tx. 3	Offset 2.4	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep 1]	I Emiss	sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count & 1Pk Max 10 dBm 0 dBm -10 dBm	Tx. 3	Offset 2.4	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep 1]	I Emiss	sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count 3 9 1Pk Max 10 dBm 0 dBm 10 dBm -10 dBm	Tx. 5 20.00 dBm 30 dB	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep 1]	I Emiss	sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count 3 9 1Pk Max 10 dBm 0 dBm 10 dBm -10 dBm	Tx. 3	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep 1]	I Emiss	sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count ! SGL Count ! ID dBm 0 dBm -10 dBm -20 dBm -30 dBm	Tx. 5 20.00 dBm 30 dB	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep 1]	I Emiss	sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count 3 10 dBm 0 dBm 10 dBm -10 dBm -20 dBm	Tx. 5 20.00 dBm 30 dB	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep 1]	I Emiss	sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count 3 SGL C	Tx. 5 20.00 dBm 30 dB	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep 1]	I Emiss	sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count & 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 5 20.00 dBm 30 dB	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep	I Emiss	sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count & 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 5 20.00 dBm 30 dB	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep		sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count & 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. 5 20.00 dBm 30 dB	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M Mode Au M1[to Sweep		sion 2.4	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count S 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm	Tx. 5 20.00 dBm 30 dB 5/5	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M	to Sweep		2.4 	-7.61 dBm B0600 GHz 49.04 dBm 10845 GHz
Spectrum Ref Level Att SGL Count 1 SGL Count 2 1Pk Max 10 dBm 0 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm Start 30.0 M	Tx. 5 20.00 dBm 30 dB 5/5	Offset 2.4 SWT 263	2 dB 🖷 RB	BLE 1M	2480M	to Sweep		2.4 	-7.61 dBm #80600 GHz -49.04 dBm
Spectrum Ref Level Att SGL Count 3 10 dBm 10 dBm 10 dBm 20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -70 dBm Start 30.0 M Marker	Tx. 5 20.00 dBm 30 dB 5/5	dBm	2 dB RB 5 ms VB	BLE 1M	2480M	to Sweep		2.4 	-7.61 dBm 80600 GHz 49.04 dBm 710845 GHz
Spectrum Ref Level Att SGL Count S SGL Count S 10 dBm 0 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm Start 30.0 M Marker Type Ref	Tx. 5 20.00 dBm 30 dB 5/5	Contraction of the second seco	2 dB RB 5 ms VB	BLE 1M	2480M Mode Au M1[M2[http://www.net	to Sweep		2.4 	-7.61 dBm 80600 GHz 49.04 dBm 710845 GHz
Spectrum Ref Level Att SGL Count 3 10 dBm 10 dBm 10 dBm 20 dBm -20 dBm -20 dBm -20 dBm -20 dBm -70 dBm Start 30.0 M Marker	Tx. 5 20.00 dBm 30 dB 5/5	dBm	2 dB RB 5 ms VB	BLE 1M	2480M Mode Au M1[M2[H12] H12 H12 H12 H12 H12 H12 H12 H12 H12 H12	to Sweep		2.4 	-7.61 dBm 80600 GHz 49.04 dBm 710845 GHz
Spectrum Ref Level Att SGL Count 3 10 dBm 10 dBm 10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -30 dBm -70 dBm -70 dBm Start 30.0 M Marker Type Ref M1 M2 M3	Tx. 5 20.00 dBm 30 dB 5/5	Offset 2.4 SWT 261	2 dB RB 5 ms VB	BLE 1M	2480M	to Sweep		2.4 	-7.61 dBm 80600 GHz 49.04 dBm 710845 GHz
Spectrum Ref Level Att SGL Count S SGL Count S 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm	Tx. 5 20.00 dBm 30 dB 5/5	Offset 2.4 SWT 263	2 dB	BLE 1M	2480M Mode Au M1[M2[M2[M2[M2[M2[M2[M2[M2[M2[M2	to Sweep		2.4 	-7.61 dBm 80600 GHz 49.04 dBm 710845 GHz
Spectrum Ref Level Att SGL Count 3 10 dBm 10 dBm 10 dBm -20 dBm -20 dBm -20 dBm -20 dBm -30 dBm -70 dBm -70 dBm Start 30.0 M Marker Type Ref M1 M2 M3	Tx. 5 20.00 dBm 30 dB 5/5	Offset 2.4 SWT 261	2 dB	BLE 1M	2480M Mode Au M1[M2[M2[M2[M2[M2[M2[M2[M2[M2[M2	to Sweep		2.4 	-7.61 dBm 80600 GHz 49.04 dBm 710845 GHz
Spectrum Ref Level Att SGL Count S SGL Count S 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm	Tx. 5 20.00 dBm 30 dB 5/5	Offset 2.4 SWT 263	2 dB	BLE 1M	2480M Mode Au M1[M2[M2[M2[M2[M2[M2[M2[M2[M2[M2	to Sweep		2.4 	-7.61 dBm 80600 GHz 49.04 dBm 710845 GHz

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2M:

8.1.8 **Duty Cycle**

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 2M	2402	Ant1	66.39	1.78	1.22
NVNT	BLE 2M	2440	Ant1	66.39	1.78	1.22
NVNT	BLE 2M	2480	Ant1	67.2	1.73	1.2

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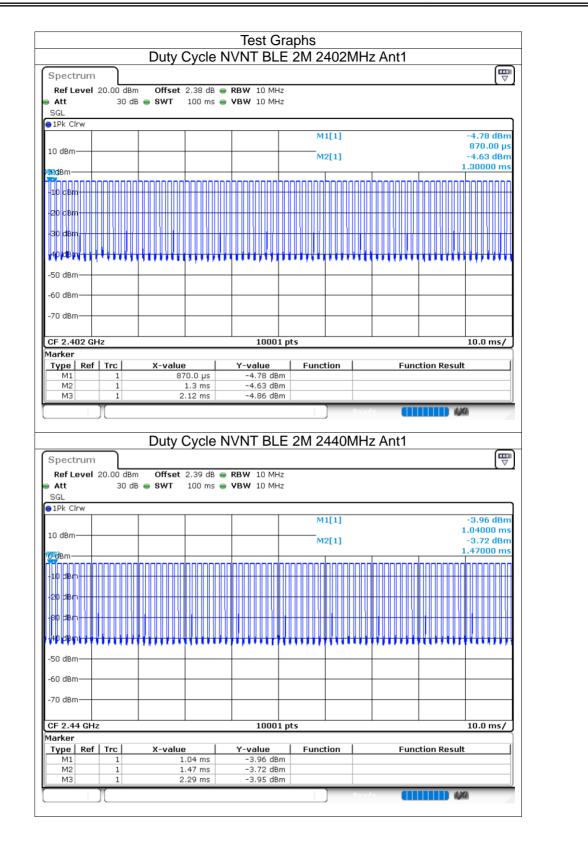


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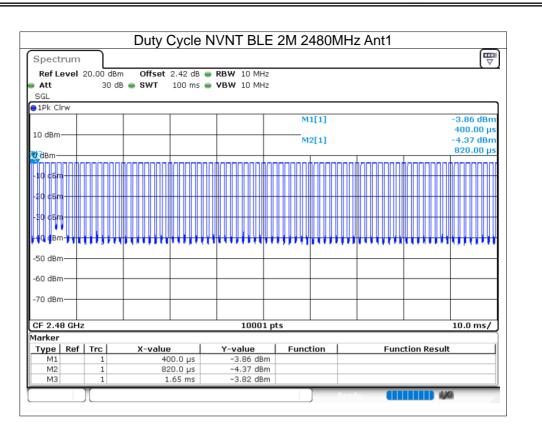
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Certificate #4298.01

Report No.: S23080705802002







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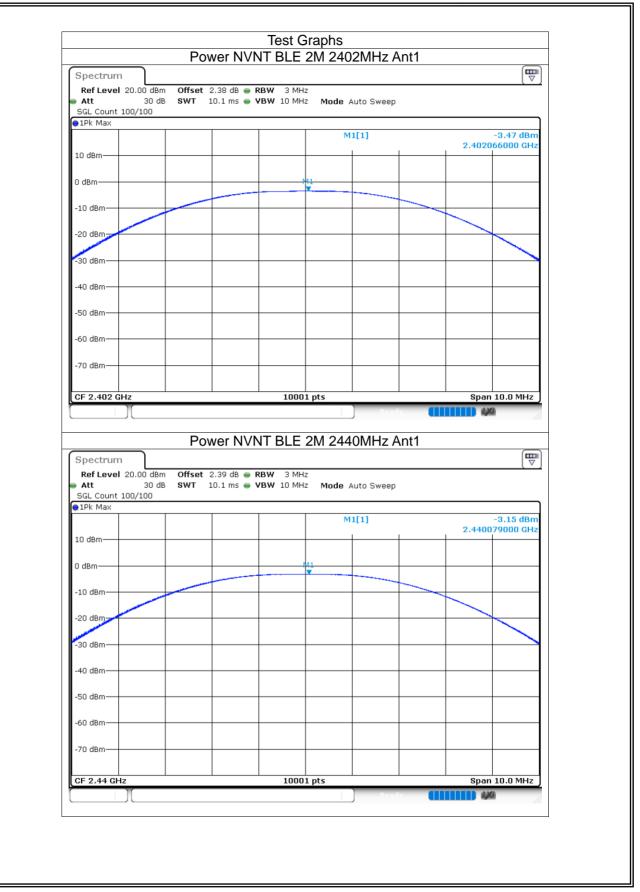




8.1.9 Maximum Conducted Output Power

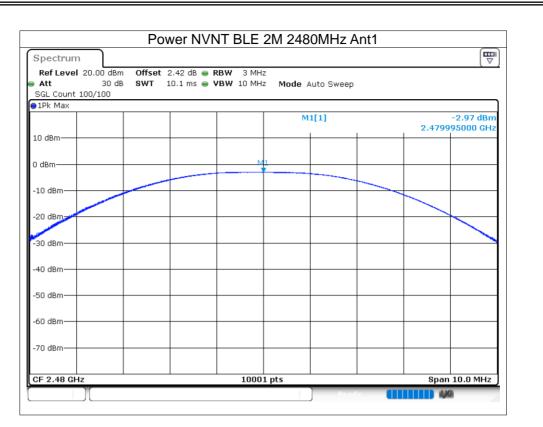
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-3.47	30	Pass
NVNT	BLE 2M	2440	Ant1	-3.15	30	Pass
NVNT	BLE 2M	2480	Ant1	-2.97	30	Pass





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8.1.10 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 2M	2402	Ant1	1.132	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.079	0.5	Pass
NVNT	BLE 2M	2480	Ant1	0.954	0.5	Pass



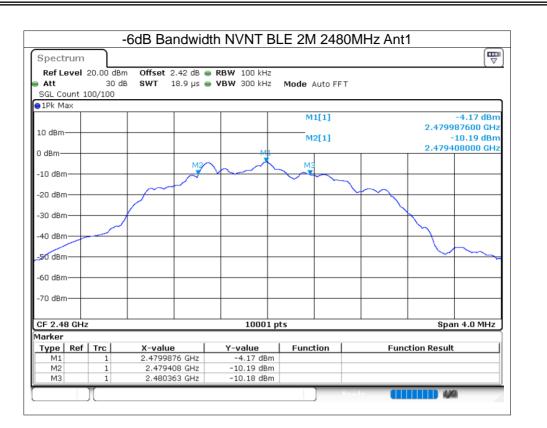


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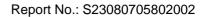
Version.1.3





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8.1.11 Occupied Channel Bandwidth

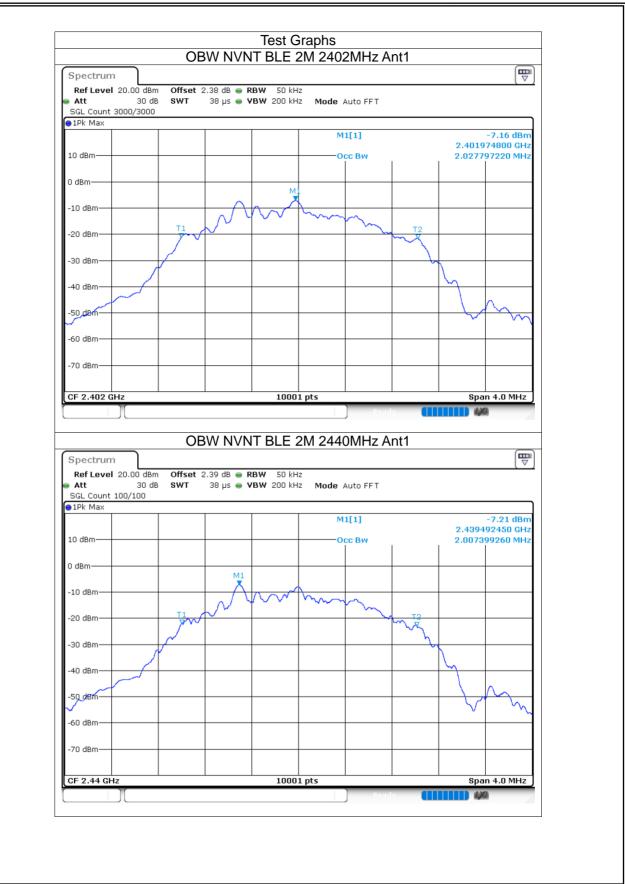
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 2M	2402	Ant1	2.028
NVNT	BLE 2M	2440	Ant1	2.007
NVNT	BLE 2M	2480	Ant1	2.035

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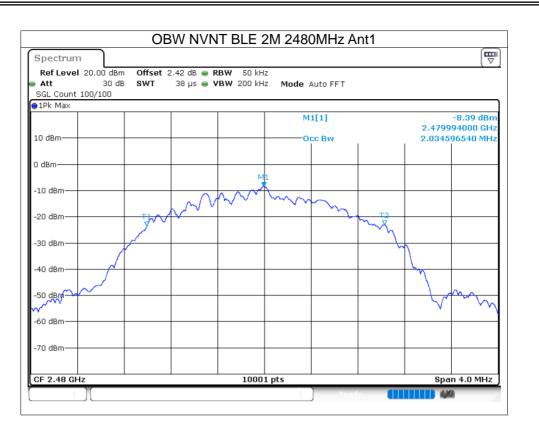
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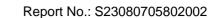
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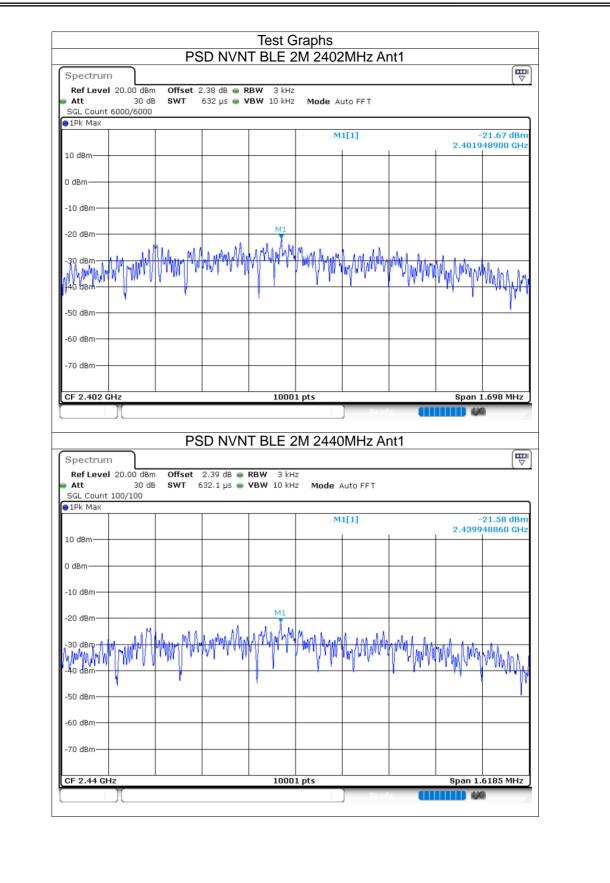


8.1.12 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 2M	2402	Ant1	-21.67	8	Pass
NVNT	BLE 2M	2440	Ant1	-21.58	8	Pass
NVNT	BLE 2M	2480	Ant1	-21.39	8	Pass

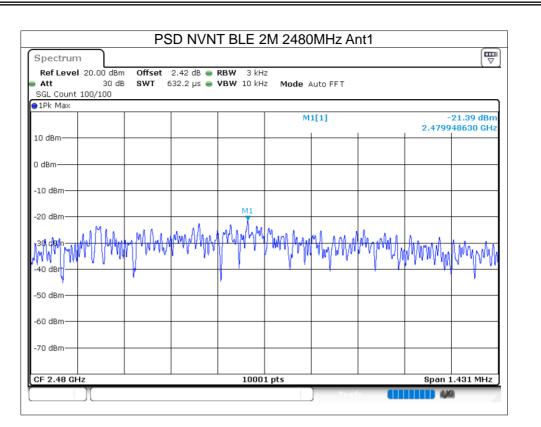
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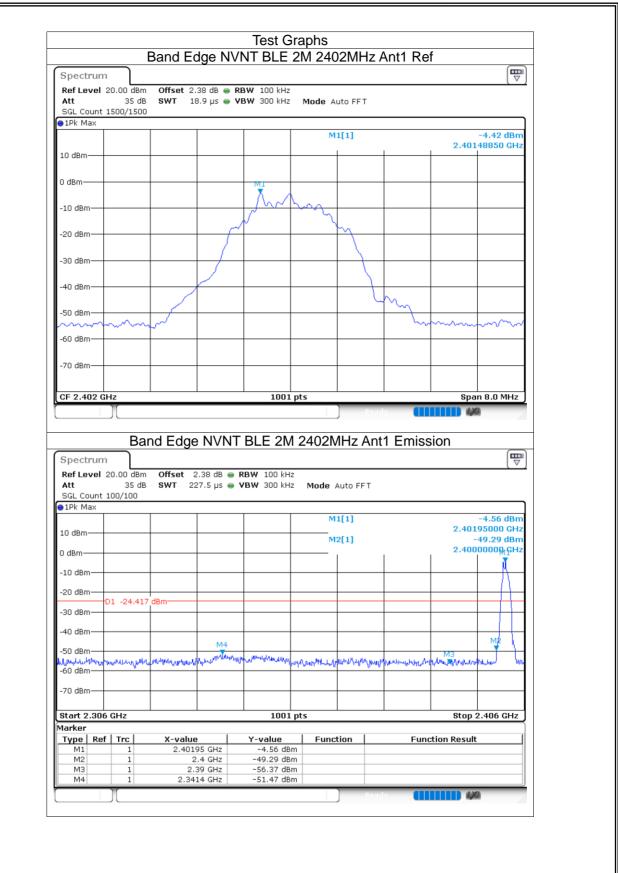




8.1.13 Band Edge

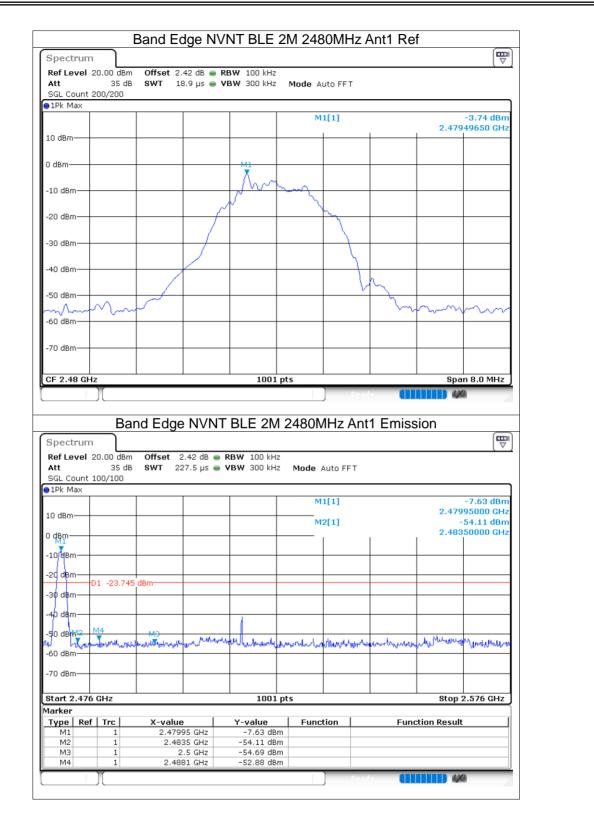
	-					
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-47.05	-20	Verdict Pass Pass
Condition NVNT NVNT	BLE 2M	2480	Ant1	-49.13	-20	Pass





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8.1.14 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 2M	2402	Ant1	-46.87	-20	Pass
NVNT	BLE 2M	2440	Ant1	-47	-20	Pass
NVNT	BLE 2M	2480	Ant1	-44.98	-20	Pass

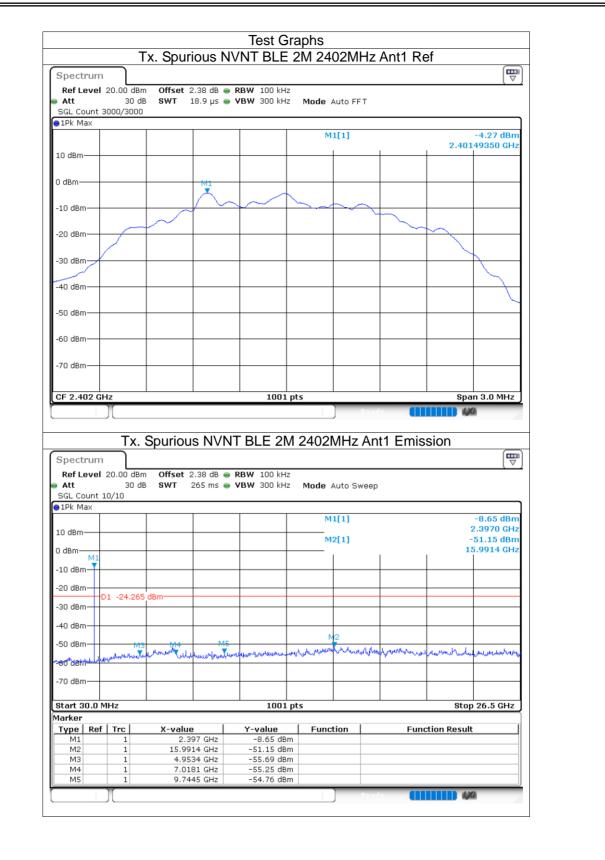


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Certificate #4298.01

Report No.: S23080705802002

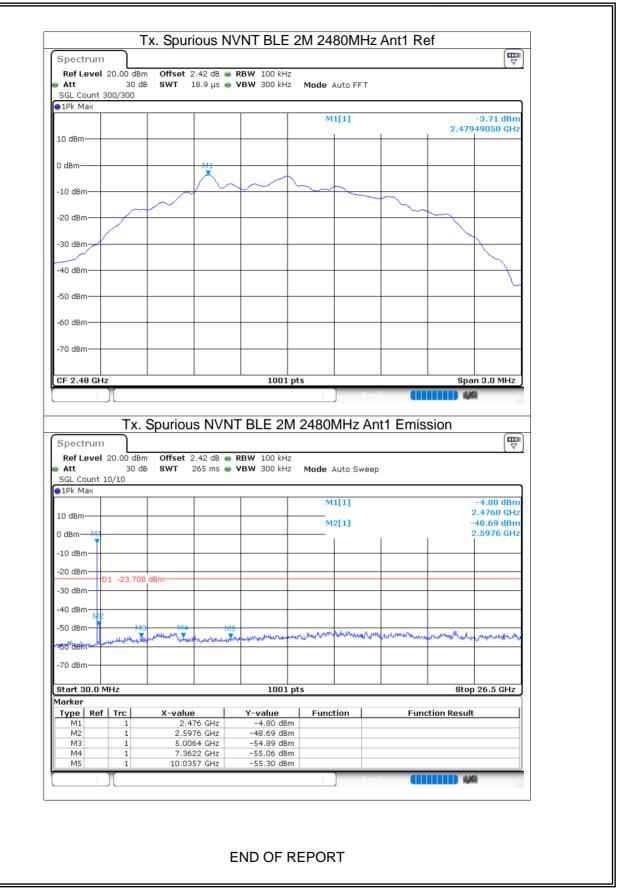




Spect	rum									
-		20.00 di	Bm Offset 3	2.39 dB 🖷	RBW 100 kHz					(*)
Att			dB SWT	18.9 µs 😑	VBW 300 kHz	Mode A	uto FFT			
		800/300								
⊜1Pk Ma	3X					M1	[1]			-3.96 dBm
							141		2.439	949050 GHz
10 dBm-	+									
0 dBm—				M1						
-10 dBm				\wedge	$\sqrt{-1}$		$\sim \sim$			
-10 UBII				1				\sim		
-20 dBm		$- \subset$	~~~						\sim	
-30 dBm										
_										
-40 dBm	+				+ +					+
-50 dBm	+									
-60 dBm										
-oo uBM										
-70 dBm										
CF 2.44					1001 p				0	in 3.0 MHz
01 2.1	r ai n									
Spect		J Tx	•		IT BLE 2N	1 2440N	Rea /IHz An	t1 Emis		
Ref Le Att	evel	Tx 20.00 di 30	Bm Offset :	2.39 dB 🖷		1 2440N	Pow <u>/IHz An</u> uto Sweep			
Ref Le	e vel unt 3	Tx 20.00 di 30	Bm Offset :	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N				
Ref Le Att SGL Co	e vel unt 3	Tx 20.00 di 30	Bm Offset :	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N Mode A			sion	
Ref Le Att SGL Co	evel unt 3 ax	Tx 20.00 di 30	Bm Offset :	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N Mode A	uto Sweep [1]		sion	-4.99 dBm 2.4500 GHz
Ref Le Att SGL Co 1Pk Ma	evel unt 3 ax	Tx 20.00 di 30	Bm Offset :	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N Mode A	uto Sweep		sion	
Ref Le Att SGL Co 1Pk Ma 10 dBm-	evel	Tx 20.00 di 30	Bm Offset :	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N Mode A	uto Sweep [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref Le Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm	unt 3 ax	Tx 20.00 di 30	Bm Offset :	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N Mode A	uto Sweep [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref Le Att SGL Co 1Pk Ma 10 dBm-	unt 3 ax	Tx 20.00 dl 30 30/30	Bm Offset : dB SWT	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N Mode A	uto Sweep [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref Le Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm	avel	Tx 20.00 di 30	Bm Offset : dB SWT	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N Mode A	uto Sweep [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref La Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm	ax	Tx 20.00 dl 30 30/30	Bm Offset : dB SWT	2.39 dB 🖷	IT BLE 2N RBW 100 kHz	1 2440N Mode A	uto Sweep [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref La Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm -40 dBm	evel unt 3 ax	Tx 20.00 d 30 30/30	Bm Offset : dB SWT	2.39 dB 265 ms	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref La Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm	evel unt 3 ax	Tx 20.00 d 30 30/30	Bm Offset : dB SWT	2.39 dB 🖷	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref La Att SGL Co 1Pk Ma 10 dBm- 0 dBm- -10 dBm -20 dBm -30 dBm -40 dBm	evel unt 3 ax	Tx 20.00 dl 30 30/30	Bm Offset : dB SWT	2.39 dB 265 ms	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref Le Att SGL Co 1Pk Ma 10 dBm- -10 dBm- -20 dBm -30 dBm -40 dBm -50 dBm		Tx 20.00 d 30 30/30	Bm Offset : dB SWT	2.39 dB 265 ms	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref Le Att SGL Co 1Pk Ma 10 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm		Tx 20.00 d 30 30/30	Bm Offset : dB SWT	2.39 dB 265 ms	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1]		sion	-4.99 dBm 2.4500 GHz 50.96 dBm 6.7326 GHz
Ref Le Att SGL Co 1Pk Ma 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm Start 3		Tx 20.00 di 30 30/30	Bm Offset : dB SWT	2.39 dB 265 ms	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm
Ref Le Att SGL Co 10 dBm- 10 dBm- -10 dBm- -20 dBm -20 dBm -40 dBm -50 dBm -50 dBm -50 dBm -70 dBm Start 3 Marker	evel ax	Tx 20.00 di 30 30/30	Bm Offset : dB SWT	2.39 dB 265 ms	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1] [1] [1] [1]		sion 1	-4.99 dBm 2.4500 GHz -50.96 dBm 6.7326 GHz
Ref Le Att SGL Co 1Pk Ma 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm Start 3	evel ax	Tx 20.00 di 30 30/30	Bm Offset : dB SWT 61 dBm 61 dBm K-value X-value	2.39 dB 265 ms	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1] [1] [1] [1]		sion	-4.99 dBm 2.4500 GHz -50.96 dBm 6.7326 GHz
Ref Le Att SGL Co IPK Ma IO dBm- 0 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm Start 3 Marker Type M1 M2	evel ax	Tx 20.00 di 30 30/30 01 -23.9 01 -23.9 01 -23.9 01 -1 1 1Hz	Bm Offset : dB SWT 61 dBm 61 dBm 61 dBm 70 m 80	2.39 dB 265 ms 265 ms 45 ms 45 GHz 26 GHz 26 GHz	JT BLE 2M	Mode A Mode A M1 M2	uto Sweep [1] [1] [1] [1] [1]		sion 1	-4.99 dBm 2.4500 GHz -50.96 dBm 6.7326 GHz
Ref Le Att SGL Co 1Pk Ma 10 dBm- 10 dBm- 10 dBm- 20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm Start 3 Marker Type M1 M2 M3	evel ax	Tx 20.00 dl 30 30/30 01 -23.9 1 1 1 1 1 1	Bm Offset : dB SWT 61 dBm 61 dBm 40 51 dBm 51 dB	2.39 dB 265 ms 265 ms 45 GHz 26 GHz 26 GHz 28	JT BLE 2M	Mode A Mode A M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto Sweep [1] [1] [1] [1] [1]		sion 1	-4.99 dBm 2.4500 GHz -50.96 dBm 6.7326 GHz
Ref Le Att SGL Co IPK Ma IO dBm- 0 dBm- -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm Start 3 Marker Type M1 M2	evel ax	Tx 20.00 di 30 30/30 01 -23.9 01 -23.9 01 -23.9 01 -1 1 1Hz	Bm Offset : dB SWT 61 dBm 61 dBm 61 dBm 73 61 dBm 73 7.28 7.28	2.39 dB 265 ms 265 ms 45 ms 45 GHz 26 GHz 26 GHz	JT BLE 2M	Mode A Mode A M1 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto Sweep [1] [1] [1] [1] [1]		sion 1	-4.99 dBm 2.4500 GHz -50.96 dBm 6.7326 GHz
Ref Le Att SGL Co 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm Start 3 Marker Type M1 M2 M3 M4	evel ax	Tx 20.00 d 30 30/30	Bm Offset : dB SWT 61 dBm 61 dBm 61 dBm 73 61 dBm 73 7.28 7.28	2.39 dB 265 ms 265 ms 45 GHz 26 GHz 28 GHz 20	JT BLE 2M	Mode A Mode A M1 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto Sweep [1] [1] [1] [1] [1]		sion 1	-4.99 dBm 2.4500 GHz -50.96 dBm 6.7326 GHz

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