



RADIO TEST REPORT FCC ID: 2AZYA-A61LX

Product: Mobile Phone Trade Mark: ACER Model No.: SOSPIRO-A61LX Family Model: SOSPIRO-A61LX-B, SOSPIRO-A61LX-N Report No.: S23071202206001 Issue Date: Aug 07, 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-A61LX
Family Model	SOSPIRO-A61LX-B, SOSPIRO-A61LX-N
Sample number	S230712022007

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.

Date of Test	:	Jul 14, 2023 ~ Aug 03, 2023
Testing Engineer	:	Aven lin
		(Allen Liu)
Authorized Signatory	:	Ades
0,1		(Alex Li)





	FCC Part15 (15.247), Subpart	С	
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&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.
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	





4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification		
Equipment	Mobile Phone	
Trade Mark	ACER	
FCC ID	2AZYA-A61LX	
Model No.	SOSPIRO-A61LX	
Family Model	SOSPIRO-A61LX-B, SOSPIRO-A61LX-N	
Model Difference	All models are the same circuit and RF module, except the model name and colour.	
Operating Frequency	2402MHz~2480MHz	
Modulation	GFSK, π/4-DQPSK, 8-DPSK	
Number of Channels	79 Channels	
Antenna Type	PIFA Antenna	
Antenna Gain	0.8 dBi	
Adapter	Model: SGCH1000 Input: 100-240Vca 50/60Hz 0.2A Output: 5.0Vcc 1A	
Battery	DC 3.8V, 3000mAh	
Power supply	DC 3.8V from battery or DC 5V from adapter	
HW Version	s9863a1h10_V1.0	
SW Version	Acer_A61LX_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			
Report No.	Version	Description	Issued Date
S23071202206001	Rev.01	Initial issue of report	Aug 07, 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 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 CH00(2402MHz)		

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

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

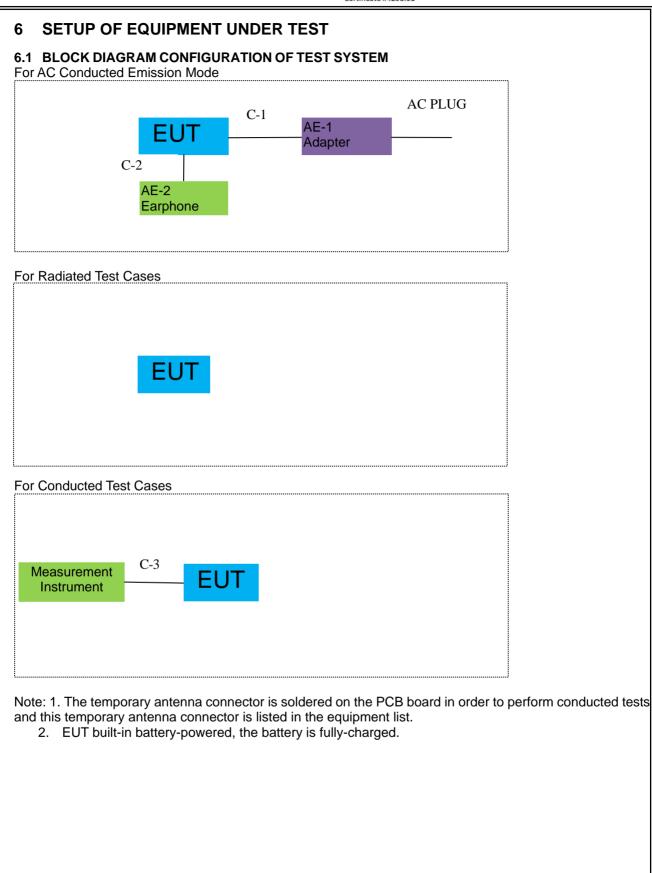
Note: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

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

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











6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	SGCH1000	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".





6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

aulanc		estequipment					
Item	Item Kind of Equipment Mar		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

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)

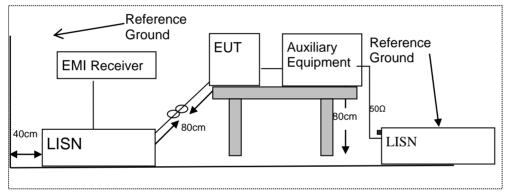
7.1.2 Conformance Limit

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





7.1.5 Test Results

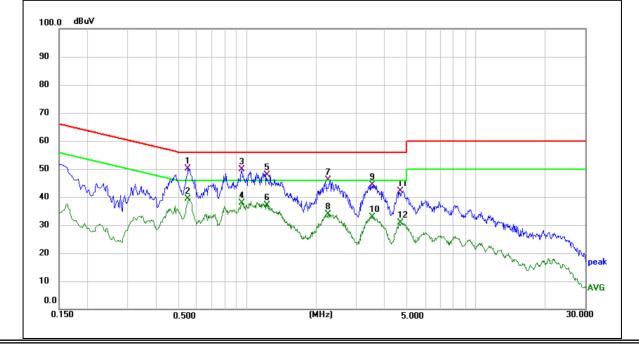
EUT:	Mobile Phone	Model Name :	SOSPIRO-A61LX
Temperature:	22 ℃	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demeril
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.5500	38.93	11.16	50.09	56.00	-5.91	QP
0.5500	28.30	11.16	39.46	46.00	-6.54	AVG
0.9460	37.99	11.91	49.90	56.00	-6.10	QP
0.9460	25.95	11.91	37.86	46.00	-8.14	AVG
1.2220	35.48	12.44	47.92	56.00	-8.08	QP
1.2220	24.81	12.44	37.25	46.00	-8.75	AVG
2.2540	31.64	14.46	46.10	56.00	-9.90	QP
2.2540	19.44	14.46	33.90	46.00	-12.10	AVG
3.5140	34.53	9.95	44.48	56.00	-11.52	QP
3.5140	22.84	9.95	32.79	46.00	-13.21	AVG
4.6979	32.40	9.76	42.16	56.00	-13.84	QP
4.6979	21.18	9.76	30.94	46.00	-15.06	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.



NTEK 北测[®]

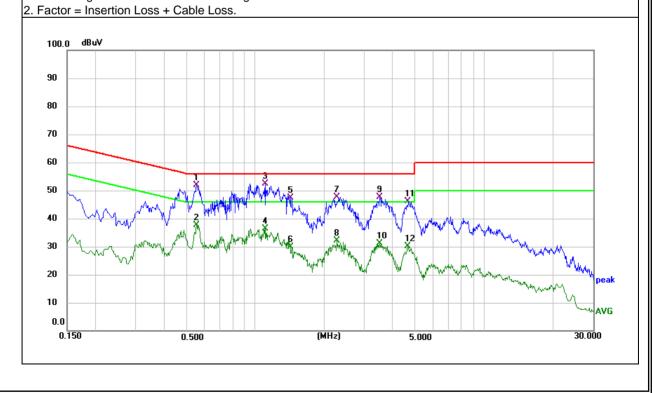


EUT:	Mobile Phone	Model Name :	SOSPIRO-A61LX
Temperature:	25 ℃	Relative Humidity:	62%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Fraguanay	Deading Loval	Correct Factor	Measure-ment	Limits	Morgin	
Frequency	Reading Level	Correct Factor	weasure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	
0.5540	40.65	11.15	51.80	56.00	-4.20	QP
0.5540	26.42	11.15	37.57	46.00	-8.43	AVG
1.1060	40.17	12.23	52.40	56.00	-3.60	QP
1.1060	24.05	12.23	36.28	46.00	-9.72	AVG
1.4220	34.66	12.83	47.49	56.00	-8.51	QP
1.4220	17.11	12.83	29.94	46.00	-16.06	AVG
2.2820	33.20	14.52	47.72	56.00	-8.28	QP
2.2820	17.61	14.52	32.13	46.00	-13.87	AVG
3.5020	37.67	9.95	47.62	56.00	-8.38	QP
3.5020	21.20	9.95	31.15	46.00	-14.85	AVG
4.6420	36.37	9.77	46.14	56.00	-9.86	QP
4.6420	20.47	9.77	30.24	46.00	-15.76	AVG

Remark:

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







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

7.0001 all g to 1 00 1 alt 10.20	o, recentered barrac		
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)

Measurement was performed at an antenna to the closed point of EUT distance of meters.
 For Frequency 9kHz~30MHz:

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

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

For Frequency above 30MHz:

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

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



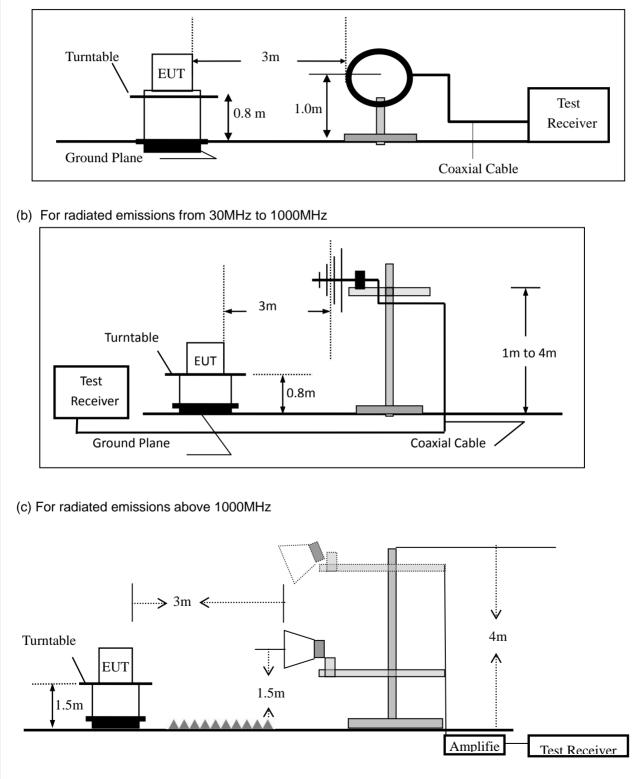


7.2.3 Measuring Instruments

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

7.2.4 Test Configuration

(a) For radiated emissions below 30MHz







7.2.5 Test Procedure

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

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

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

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

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
 - Note:

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





During the radiated emission to	est, the Spectrum An	alyzer was set with the follow	ving configurations:
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Ah awa 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

EUT:	Mobile Phone	Model No.:	SOSPIRO-A61LX
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	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.





Remark

QP QP QP

QP

QP QP

 ■ 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-A61LX

 Temperature:
 25 °C
 Relative Humidity:
 55%

 Pressure:
 1010hPa
 Test Mode:
 Mode 1 8-DPSK

	Test Vol	tage : DC 3	.8V				
Ī	Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin
	(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
	V	40.8446	7.80	14.09	21.89	40.00	-18.11
	V	68.3908	9.10	11.11	20.21	40.00	-19.79
	V	94.7601	12.57	12.34	24.91	43.50	-18.59

9.24

18.95

21.22

V Remark:

V

V

142.8243

584.7895

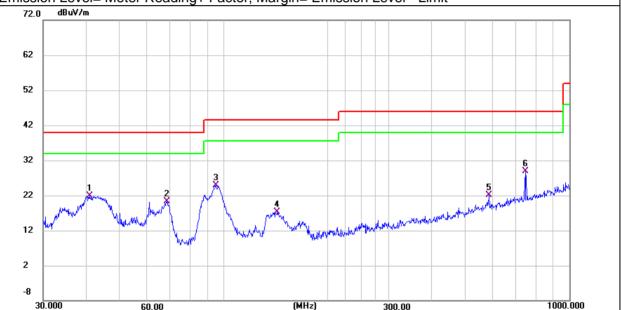
744.8661

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

7.98

3.14

7.60



17.22

22.09

28.82

43.50

46.00

46.00

-26.28

-23.91

-17.18

NTEK 北测[®]



Polar	Frequen			ter ding	Factor	Emiss Leve	-	Limits	Margin	Remark	
(H/V)	(MHz)		(dB	uV)	(dB)	(dBuV	/m)	(dBuV/m)	(dB)		
Н	51.4807	7	-0.	62	15.01	14.3	9	40.00	-25.61	QP	
Н	96.7749	9	15.	65	12.75	28.4	0	43.50	-15.10	QP	
Н	195.136	5	12.	12	11.93	24.0	5	43.50	-19.45	QP	
Н	309.997	7	1.:	39	14.40	15.7	9	46.00	-30.21	QP	
Н	744.866	1	1.	75	21.22	22.9	7	46.00	-23.03	QP	
Н	958.794	3	1.1	11	23.55	24.6	6	46.00	-21.34	QP	
Emissio 72.0	n Level= Me dBuV/m	eter R	Readin	g+ Fa	ctor, Margir	n= Emiss	ion Le	evel - Limit			
62											
52											
42											
32				2		3				6	
22		1		-A	γ	×		4 ushand	hundy hundre ward filler	Munit	
12	where the second	and the second	- Mary	n d	Mark Mulker	whenter	a the barry of the	- Loom all all and			
2											
-8											





Spurious E		e Phone	12 (1GHZ)		/	0		11 V		
-							SOSPIRO-A61LX 48%			
emperature:					e Humidity					
est Mode:		1/Mode2/		Test By			len Liu			
ll the modulat	ion modes	have bee	en tested,	and the w	orst result	t was re	port as belo	W:		
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	s Margin	Remark	Comment	
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/	m) (dB)			
			Low Channe	el (2402 MH	z)(8-DPSK)-	-Above 1	G			
4804.214	64.37	5.21	35.59	44.30	60.87	74.00	-13.13	Pk	Vertical	
4804.214	41.87	5.21	35.59	44.30	38.37	54.00	-15.63	AV	Vertical	
7206.265	61.54	6.48	36.27	44.60	59.69	74.00	-14.31	Pk	Vertical	
7206.265	44.88	6.48	36.27	44.60	43.03	54.00	-10.97	AV	Vertical	
4804.109	61.31	5.21	35.55	44.30	57.77	74.00	-16.23	Pk	Horizontal	
4804.109	42.90	5.21	35.55	44.30	39.36	54.00	-14.64	AV	Horizontal	
7206.224	63.32	6.48	36.27	44.52	61.55	74.00	-12.45	Pk	Horizontal	
7206.224	47.35	6.48	36.27	44.52	45.58	54.00	-8.42	AV	Horizontal	
		1	Mid Channe	el (2441 MH	z)(8-DPSK)-	Above 1	G	1		
4882.396	63.30	5.21	35.66	44.20	59.97	74.00	-14.03	Pk	Vertical	
4882.396	43.04	5.21	35.66	44.20	39.71	54.00	-14.29	AV	Vertical	
7323.241	60.10	7.10	36.50	44.43	59.27	74.00	-14.73	Pk	Vertical	
7323.241	47.55	7.10	36.50	44.43	46.72	54.00	-7.28	AV	Vertical	
4882.108	60.71	5.21	35.66	44.20	57.38	74.00	-16.62	Pk	Horizontal	
4882.108	49.33	5.21	35.66	44.20	46.00	54.00	-8.00	AV	Horizontal	
7323.132	60.26	7.10	36.50	44.43	59.43	74.00	-14.57	Pk	Horizontal	
7323.132	42.55	7.10	36.50	44.43	41.72	54.00		AV	Horizontal	
		1	High Channe	el (2480 MH	z)(8-DPSK)-	- Above ´	G	1	1	
4960.397	66.40	5.21	35.52	44.21	62.92	74.00	-11.08	Pk	Vertical	
4960.397	43.10	5.21	35.52	44.21	39.62	54.00	-14.38	AV	Vertical	
7440.201	61.03	7.10	36.53	44.60	60.06	74.00	-13.94	Pk	Vertical	
7440.201	45.41	7.10	36.53	44.60	44.44	54.00	-9.56	AV	Vertical	
4960.225	67.87	5.21	35.52	44.21	64.39	74.00	-9.61	Pk	Horizontal	
4960.225	47.26	5.21	35.52	44.21	43.78	54.00	-10.22	AV	Horizontal	
7440.298	62.43	7.10	36.53	44.60	61.46	74.00	-12.54	Pk	Horizontal	
7440.298	44.96	7.10	36.53	44.60	43.99	54.00	-10.01	AV	Horizontal	

Note:

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





	Spurious	Emission in	Restricte	d Band 23	31 <u>0-2390</u>	MHz and 2	2483.5	-250	0MHz					
EU	T:	Mobile Pho	one		Model I	No.:	S	SOSPIRO-A61LX						
Те	mperature:	20 °C			Relativ	Relative Humidity:								
Te	st Mode:	Mode1/Mo	de3		Test By	/:	A	Allen	Liu					
AI	I the modul	ation mode	s have be	en tested	, and the	worst resu	It was	repo	ort as belo	ow:				
	Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lim	its	Margin	Detector	Comment			
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµ\	//m)	(dB)	Туре				
				1M	lbps(GFSK)	-Non-hoppin	g							
	2310.00													
	2310.00	44.67	2.97	27.80	43.80	31.64	54	1	-22.36	AV	Horizontal			
	2310.00	59.02	2.97	27.80	43.80	45.99	74	1	-28.01	Pk	Vertical			
	2310.00	43.67	2.97	27.80	43.80	30.64	54	1	-23.36	AV	Vertical			
	2390.00	57.89	3.14	27.21	43.80	44.44	74	1	-29.56	Pk	Vertical			
	2390.00	43.70	3.14	27.21	43.80	30.25	54	1	-23.75	AV	Vertical			
	2390.00	57.36	3.14	27.21	43.80	43.91	74	1	-30.09	Pk	Horizontal			
	2390.00	42.08	3.14	27.21	43.80	28.63	54	1	-25.37	AV	Horizontal			
	2483.50	58.86	3.58	27.70	44.00	46.14	74	1	-27.86	Pk	Vertical			
	2483.50	42.30	3.58	27.70	44.00	29.58	54	1	-24.42	AV	Vertical			
	2483.50	59.71	3.58	27.70	44.00	46.99	74	1	-27.01	Pk	Horizontal			
	2483.50	42.03	3.58	27.70	44.00	29.31	54	1	-24.69	AV	Horizontal			
					1Mbps(GFS	K)-hopping								
	2310.00	54.14	2.97	27.80	43.80	41.11	74.(00	-32.89	Pk	Vertical			
	2310.00	43.66	2.97	27.80	43.80	30.63	54.0	00	-23.37	AV	Vertical			
	2310.00	54.28	2.97	27.80	43.80	41.25	74.(00	-32.75	Pk	Horizontal			
	2310.00	43.01	2.97	27.80	43.80	29.98	54.0	00	-24.02	AV	Horizontal			
	2390.00	50.67	3.14	27.21	43.80	37.22	74.0	00	-36.78	Pk	Vertical			
	2390.00	43.12	3.14	27.21	43.80	29.67	54.0	00	-24.33	AV	Vertical			
	2390.00	53.84	3.14	27.21	43.80	40.39	74.(00	-33.61	Pk	Horizontal			
	2390.00	44.54	3.14	27.21	43.80	31.09	54.0	00	-22.91	AV	Horizontal			
	2483.50	53.05	3.58	27.70	44.00	40.33	74.(00	-33.67	Pk	Vertical			
	2483.50	44.05	3.58	27.70	44.00	31.33	54.0	00	-22.67	AV	Vertical			
	2483.50	52.41	3.58	27.70	44.00	39.69	74.(00	-34.31	Pk	Horizontal			
	2483.50	40.90	3.58	27.70	44.00	28.18	54.0	00	-25.82	AV	Horizontal			

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





	Emission in	Restricte	ed Band 3	260MHz-	18000MHz	<u>.</u>				
EUT: Mobile Phone					No.:		SOS	PIRO-A6	1LX	
Temperature:	20 ℃			Relativ	e Humidity	/:	48%			
Test Mode:	Mode	1/ Mode3		Test By	y:		Allen	Liu		
All the modul	ation mode	s have be	en tested	, and the	worst resu	ılt wa	s rep	ort as bel	ow:	-
Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Lir	nits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBļ	JV/m)	(dB)	Туре	
3260	0 60.38 4.04		29.57	44.70	49.29	7	74	-24.71	Pk	Vertical
3260	57.05	57.05 4.04		44.70	45.96	54	54	-8.04	AV	Vertical
3260	61.19	4.04	29.57	44.70	50.10	7	74	-23.90	Pk	Horizontal
3260	56.82	4.04	29.57	44.70	45.73	Ę	54	-8.27	AV	Horizontal
3332	64.18	4.26	29.87	44.40	53.91	7	74	-20.09	Pk	Vertical
3332	53.50	4.26	29.87	44.40	43.23	Ę	54	-10.77	AV	Vertical
3332	62.14	4.26	29.87	44.40	51.87	1	74	-22.13	Pk	Horizontal
3332	52.37	4.26	29.87	44.40	42.10	Ę	54	-11.90	AV	Horizontal
17797	43.19	10.99	43.95	43.50	54.63	7	74	-19.37	Pk	Vertical
17797	33.29	10.99	43.95	43.50	44.73	Ę	54	-9.27	AV	Vertical
17788	44.11	11.81	43.69	44.60	55.01	7	74	-18.99	Pk	Horizontal
17788	31.08	11.81	43.69	44.60	41.98	Ę	54	-12.02	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:	Mobile Phone	Model No.:	SOSPIRO-A61LX
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode 4(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 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

VBW ≥ RBW Sweep = auto

Detector function = peak Trace = max hold

7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-A61LX
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	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:	Mobile Phone	Model No.:	SOSPIRO-A61LX		
Temperature:	20 ℃	Relative Humidity:	48%		
Test Mode:	Mode1/Mode2/Mode3	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 x 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 x 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:	Mobile Phone	Model No.:	SOSPIRO-A61LX
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	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

 $RBW \ge the 20 dB$ bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-A61LX
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	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 §15.205(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:	Mobile Phone	Model No.:	SOSPIRO-A61LX
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode1/Mode3/Mode4	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: 0.8dBi). It comply with the standard requirement.





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

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

7.11.2 Frequency Hopping System

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

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

7.11.3 EUT Pseudorandom Frequency Hopping Sequence

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

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





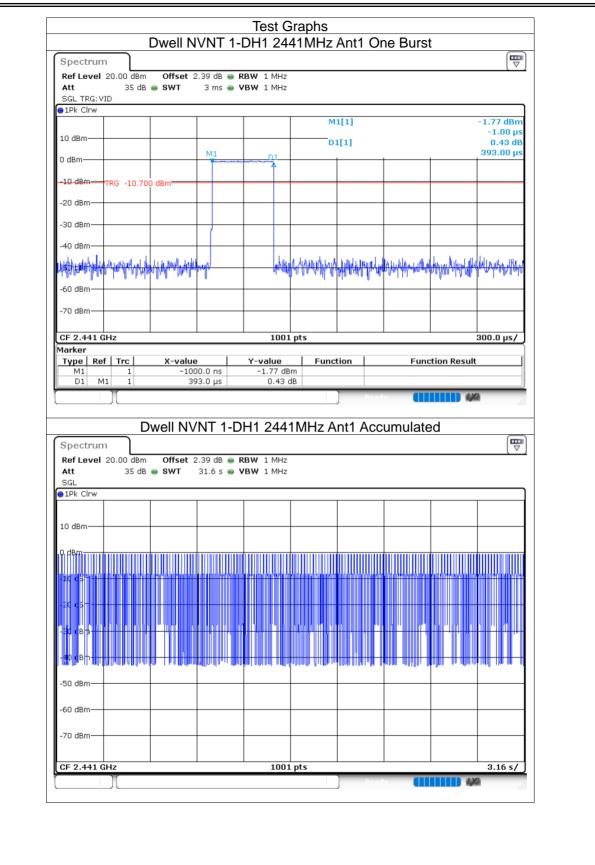
8 TEST RESULTS

8.1 DWELL TIME

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time	Burst Count	Period Time (ms)	Limit (ms)	Verdict
				()	(ms)		()		
NVNT	1-DH1	2441	Ant1	0.393	74.277	189	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.65	209.55	127	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.896	257.744	89	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.384	75.264	196	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.635	194.565	119	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.888	259.92	90	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.384	76.8	200	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.63	195.6	120	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.888	291.688	101	31600	400	Pass











SGL TRG: VID									
O IPK CIrw					м	1[1]			-13.12 dBm
10 dBm					D:	1[1]			-5.00 µs -0.30 dB
0 dBm						1		1	1.65000 ms
	3 -10.800		0.040 ⁻¹⁴⁰ -1440-1440-14	State of the second second	84-98				
-20 dBm	5 -10.80	l			¢.				
-30 dBm									
-40 dBm									
	nggesthelw-r					the the state of t	uy y Hlybery o	e phantair a	llyddologenodd
-60 dBm									
-70 dBm									
CF 2.441 GHz Marker				1001	pts				500.0 μs/
Type Ref		X-value		Y-value	Func	tion	Fund	tion Resul	t
M1 D1 M1	1		-5.0 µs .65 ms	-13.12 dB -0.30 d					
	[Read	y O		0
							• •		
Spectrum Ref Level 20				H3 244	1MHz A	nt1 Acc	umulate	ed	
Ref Level 20 Att SGL		Offset 2	2.39 dB 👄 F		1MHz A	.nt1 Acc		ed	
Ref Level 20 Att	.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A	.nt1 Acc			
Ref Level 20 Att SGL	.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A				
Ref Level 20 Att SGL 91Pk Clrw	.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A	nt1 Acc			
Ref Level 20 Att SGL 91Pk Clrw	.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A				
Ref Level 20 Att SGL 91Pk Clrw	.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A	.nt1 Acc			
Ref Level 20 Att SGL 91Pk Clrw	.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A				
Ref Level 20 Att SGL 9 1Pk Clrw 10 10 dBm 10 0, dBm 10 20 dBm 10	.00 dBm 35 dB (Offset 2	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20 Att SGL 91Pk Clrw	.00 dBm 35 dB (Offset 2	2.39 dB • F 31.6 s • V	RBW 1 MHz					
Ref Level 20 Att SGL ● 1Pk Clrw 10 dBm 0 dBm 10 dBm 20 dBm 20 dBm 30 dBm	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20 Att SGL ● 1Pk Clrw 10 dBm 0 dBm 0 dBm 20 dBm 20 dBm 30 dBm 410 dBm 10	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20 Att SGL ● 1Pk Clrw 10 dBm 0 dBm 10 dBm 20 dBm 20 dBm 30 dBm	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20 Att SGL ● 1Pk Clrw 10 dBm 0 dBm 0 dBm 20 dBm 20 dBm 30 dBm 410 dBm 10	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20 Att SGL ● 1Pk Clrw 10 dBm 0 dBm 20 dBm 20 dBm -50 dBm -50 dBm	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20 Att SGL ● 1Pk Clrw 10 dBm 0 dBm 0 dBm 20 dBm -50 dBm -60 dBm	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20 Att SGL ● 1Pk Clrw 10 dBm 0 dBm 0 dBm 20 dBm -50 dBm -60 dBm	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					3.16 s/
Ref Level 20 Att SGL ● 1Pk Clrw 10 10 dBm 0 0 dBm 0 20 dBm 0 20 dBm 0 20 dBm 0 -50 dBm 0 -70 dBm 0	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz					3.16 s/
Ref Level 20 Att SGL ● 1Pk Clrw 10 dBm 0 dBm 0 dBm -50 dBm -50 dBm -70 dBm	.00 dBm 35 dB (Offset 2 SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz					3.16 s/





SGL TRG: VID 1Pk Clrw	_			
		M1[1]		-10.66 dBm
10 dBm		D1[1]		-8.00 µs -2.60 dB
0 dBm				2.89600 ms
-10 dBm TRG -10.700 dBm	warman and a second			
-20 dBm				
-30 dBm				
-40 dBm				
		hilling and the state of the second	un hall and the form of the property of the pr	whenter
-60 dBm				
-70 dBm				
CF 2.441 GHz Marker	100	1 pts		800.0 µs/
Type Ref Trc X-va M1 1 1 1	-8.0 µs -10.66 d		Func	ion Result
D1 M1 1	2.896 ms -2.60	dB	Poady 💷	
Att 35 dB 👄 SWT	31.6 s 👄 VBW 1 MHz			
SGL 1Pk Clrw		1		
SGL				
SGL 1Pk Cirw				
SGL 1Pk Clrw 10 dBm 0 dBm 41ť cBr ¹				
SGL IPk Clrw 10 dBm 0,dBm 410 cB+ 10 cB+				
SGL 1Pk Clrw 10 dBm 0 dBm 12 cB +				
SGL 1Pk Clrw 10 dBm 0, dBm 41 cB + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
SGL 1Pk Clrw 10 dBm 0 dBm 4Lt cB + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +				
SGL 1Pk Clrw 10 dBm 0, dBm 41 cB + 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				

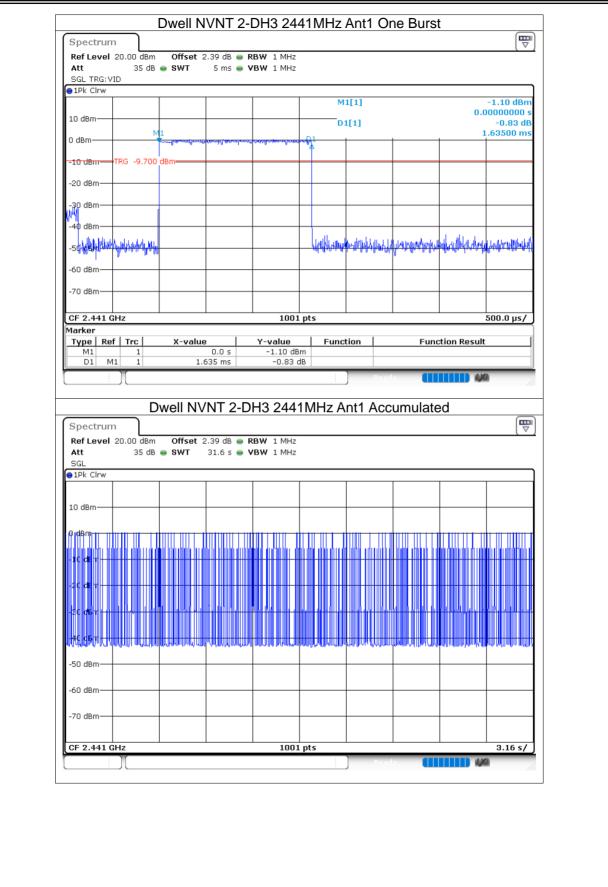




SGL TRG:\ 1Pk Clrw	/10								
					м	1[1]		-	13.09 dBm -10.00 µs
10 dBm					D	1[1]			3.30 dB 384.00 µs
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-10 dBm-	TRG -9.800	dBm	- The second sec						
-20 dBm—									
-30 dBm—									
-40 dBm		1 AL				Contract.		a	
he he he he	allowallight the fire	###pallky@##W	et Me	l limited to		flogly and the second	<mark>furfelikter</mark> igt		anthandatha
-60 dBm—									•
-70 dBm—									
CF 2.441	GHz			100	l pts				300.0 µs/
Marker Type Re	ef Trc	X-value	•	Y-value	Func	tion	Fund	tion Result	
M1	1	-1	.0.0 μs 34.0 μs	-13.09 dE 3.30	3m				
						Read	v O		1
				L1 211		n+1 1 000	umulata	A	
0		well NV	'NT 2-D	H1 244	1MHz A	Int1 Acc	umulate	ed	
Spectrur Ref Level	n					nt1 Acc	umulate	ed	
Ref Level Att	n 20.00 dBm	Offset 2	2.39 dB 👄 F	H1 244		nt1 Acc	umulate	ed	
Ref Level Att SGL	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz		Int1 Acc			
Ref Level Att SGL 1Pk Clrw	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz		Int1 Acc			
Ref Level Att SGL	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz					
Ref Level Att SGL 1Pk Clrw	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz					
Ref Level Att SGL 1Pk Clrw	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz					
Ref Level Att SGL 1Pk Clrw	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • \	RBW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • \	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • \	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL ● 1Pk Clrw 10 dBm	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL ● 1Pk Clrw 10 dBm -10 dB	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL ● 1Pk Clrw 10 dBm 10 dBm -10 1Bm -20 1Bm -30 cB -40 cB -50 dBm -60 dBm	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL ● 1Pk Clrw 10 dBm 10 dBm -10 dBm -20 dBm -30 cB -40 cB -50 dBm	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm 10 dBm 10 dBm -30 cB -40 cB -50 dBm -60 dBm	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					3.16 s/
Ref Level Att SGL 1Pk Clrw 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm -50 dBm -60 dBm	n 20.00 dBm 35 dB	Offset 2	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					3.16 s/











SGL TRG:VID 1Pk Clrw									
					м	1[1]		-	10.33 dBm
10 dBm					D	1[1]			-104.00 µs -3.27 dB
0 dBm								:	2.88800 ms
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-20 dBm				4					
-30 dBm									
-40 dBm					1		ulu da terre		
haddeland have and had had had had had had had had had ha				<u> </u>	antar nadara	Alternative states	ulikar Alashpula	M. Indlangder	ha dharrad alla
-60 dBm									
-70 dBm									
0E 0 441 01-				100	nte				800.0.0= (
CF 2.441 GHz Marker				1001	. pts				800.0 µs/
Type Ref T M1	rc	X-value	14.0 μs	Y-value -10.33 dB	Func	tion	Func	tion Result	:
D1 M1	1		388 ms	-3.27 (
						Read			(A)
Spectrum Ref Level 20.0 Att)0 dBm	Well NV	NT 2-D	BW 1 MHz	1MHz A] Ford nt1 Acc	umulate	ed .	
Ref Level 20.0 Att SGL)0 dBm	Well NV	2.39 dB 👄 R	BW 1 MHz	1MHz A] nt1 Acc	umulate	ed	
Ref Level 20.0 Att SGL)0 dBm	Well NV	2.39 dB 👄 R	BW 1 MHz	1MHz A] nt1 Acc	umulate	ed	
Ref Level 20.0 Att SGL)0 dBm	Well NV	2.39 dB 👄 R	BW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level 20.0 Att SGL 1Pk Clrw)0 dBm	Well NV	2.39 dB 👄 R	BW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level 20.0 Att SGL 1Pk Clrw)0 dBm	Well NV	2.39 dB 👄 R	BW 1 MHz	1MHz A	nt1 Acc			
Ref Level 20.0 Att SGL 1Pk Clrw)0 dBm	Well NV	2.39 dB 👄 R	BW 1 MHz	1MHz A	nt1 Acc			
Ref Level 20.0 Att SGL 1Pk Clrw)0 dBm	Well NV	2.39 dB 👄 R	BW 1 MHz	1MHz A	nt1 Acc			
Ref Level 20.0 Att SGL 1Pk Clrw)0 dBm 35 dB	Well NV	2.39 dB 👄 R	BW 1 MHz BW 1 MHz	1MHz A				
Ref Level 20.0 Att SGL 1Pk Clrw 10 dBm 0 dBm -1C dEm -8C dEm)0 dBm 35 dB	offset 2 SWT	2.39 dB • R 31.6 5 • V	BW 1 MHz BW 1 MHz					
Ref Level 20.0 Att SGL 1Pk Clrw 10 dBm 0 dBm -1C dEm -8C dEm)0 dBm 35 dB	offset 2 SWT	2.39 dB • R 31.6 5 • V	BW 1 MHz BW 1 MHz					
Ref Level 20.0 Att SGL 1Pk Clrw 10 dBm 0 dBm -1C dEm -8C dEm)0 dBm 35 dB	offset 2 SWT	2.39 dB • R 31.6 5 • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20.0 Att SGL 1Pk Clrw 10 dBm 0 dBm 0 dBm -LC dEm -BC dEm -BC dEm)0 dBm 35 dB	offset 2 SWT	2.39 dB • R 31.6 5 • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20.0 Att SGL 1Pk Clrw 10 dBm 0 dBm -kC dEm -kBC dEm -s0 dBm -60 dBm)0 dBm 35 dB	offset 2 SWT	2.39 dB • R 31.6 5 • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20.0 Att SGL 1Pk Clrw 10 dBm 0 dBm - IC dEm - IC dEm - IC dEm - SC dEm - SC dEm)0 dBm 35 dB	offset 2 SWT	2.39 dB • R 31.6 5 • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20.0 Att SGL 1Pk Clrw 10 dBm 0 dBm -kC dEm -kBC dEm -sC dEm -sC dEm -sC dBm -60 dBm)0 dBm 35 dB	offset 2 SWT	2.39 dB • R 31.6 5 • V	RBW 1 MHz /BW 1 MHz					
Ref Level 20.0 Att SGL IPR CIrw 10 dBm 0jdBm -LC dEm -EC dEm -BC dEm -S0 dBm -60 dBm -70 dBm)0 dBm 35 dB	offset 2 SWT	2.39 dB • R 31.6 5 • V	2000,000 00,000					3.16 s/





SGL TRG: V 1Pk Clrw									
10 10-					M	1[1]			-1.49 dBm -1.00 μs
10 dBm			М1		D	1[1]			-0.41 dB 384.00 µs
0 dBm			The most of the second second						
-10 dBm	TRG -9.000	dBm=====							
-20 dBm—									
-30 dBm									
-40 dBm—									
wskitherfillu	hhundallah hali	up halle all all all all all all all all all		hund	And the production of the second s	<mark>արդիրեններին</mark>	HUND BELLING	MAR AND AND A	Marill Marine
-60 dBm		U. U				0 - 0 - 0	il in rille.	0 1	
-70 dBm									
CF 2.441 (Marker	GHz			1001	1 pts				300.0 µs/
Type Re M1	f Trc	X-value	9 00.0 ns	Y-value -1.49 dB	Func	tion	Fund	tion Result	· · · · · · · · · · · · · · · · · · ·
	11 1		34.0 µs	-0.41					
						Read			0
)			- ////
Spectrur	n				1MHz A	.nt1 Acc	umulate	ed	
Ref Level Att SGL	n 20.00 dBm	Offset 2	′ <mark>NT 3-D</mark> 2.39 dB ● F 31.6 s ● V	RBW 1 MHz	1MHz A	nt1 Acc	umulate	ed	
Ref Level Att SGL	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level Att SGL	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level Att SGL 1Pk Clrw	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level Att SGL 1Pk Clrw	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level Att SGL 1Pk Clrw	n 20.00 dBm	Offset 2	2.39 dB 👄 F	RBW 1 MHz	1MHz A	nt1 Acc			
Ref Level Att SGL 1Pk Clrw 10 dBm	n 20.00 dBm 35 dB	Offset 2 SWT	2.39 dB • F 31.6 s • \	RBW 1 MHz /BW 1 MHz	1MHz A	nt1 Acc			
Ref Level Att SGL 1Pk Clrw 10 dBm 0 EBT -1C db -2C db -2C db -2C db -10	n 20.00 dBm	Offset 2 SWT	2.39 dB 👄 F	RBW 1 MHz		nt1 Acc			
Ref Level Att SGL 1Pk Clrw 10 dBm -10 dBm -10 dBm -20 dB	n 20.00 dBm 35 dB	Offset 2 • SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm -10 dBm -10 dBm -20 dBm -30 cBm -20 cBm -20 cBm	n 20.00 dBm 35 dB	Offset 2 • SWT	2.39 dB • F 31.6 s • \	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm -10 dBm -10 dBm -20 dB	n 20.00 dBm 35 dB	Offset 2 • SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm -10 dBm -10 dBm -20 dBm -30 cBm -20 cBm -20 cBm	n 20.00 dBm 35 dB	Offset 2 • SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -50 dBm	n 20.00 dBm 35 dB	Offset 2 • SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm -10 dBm -10 dBm -20 dB -30 cB 	n 20.00 dBm 35 dB	Offset 2 • SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level Att SGL 1Pk Clrw 10 dBm 0 dBm -10 dBm -20 dB ⁻ -30 cB ⁻ -50 dBm -60 dBm	n 20.00 dBm 35 dB	Offset 2 • SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					3.16 s/
Ref Level Att SGL 11Pk Clrw 10 dBm 0 EBT -12 dBT -20 dBT -30 cB+ -50 dBm -60 dBm -70 dBm	n 20.00 dBm 35 dB	Offset 2 • SWT	2.39 dB • F 31.6 s • V	RBW 1 MHz /BW 1 MHz					3.16 s/





●1Pk Clrw	/ID								
					M	1[1]			-10.11 dBm -130.00 μs
10 dBm					Di	1[1]			-1.17 dB
0 dBm	M1	L							
-10 dBm	TRG -9.000	dBm	<u>warwipunpa</u> a	rodannadanne	1				
-20 dBm—									
-30 dBm—									
-40 dBm—									
	luburrk.				UL M Church with	estr. anamata k	typhptkl/plt/hangelad	ենիներառներ	by Male and the
-60 dBm	Albil decode a				يلمهن هم الأل	a all'mornachandi.	ah Baliska (N. M. J	a a fin faile af a dhair a dhai An an	երիկութագրություն։
-70 dBm—									
CF 2.441 (GHz			1001	nts				500.0 μs/
Marker									
Type Re	1		30.0 µs	Y-value -10.11 de		tion	Fund	ction Result	
D1 N	11 1	1	.63 ms	-1.17 (1B	Dond			0
						<u>,</u>			11/1
	20.00 dBr		2.39 dB 👄						
	20.00 dBr	n Offset 3 e SWT		RBW 1 MHz VBW 3 MHz					
Ref Leve Att SGL 1Pk Clrw	20.00 dBr								
Ref Leve Att SGL	20.00 dBr								
Ref Leve Att SGL 1Pk Clrw	20.00 dBr								
Ref Leve Att SGL 1Pk Clrw 10 dBm 10 dBm 11 dBm 21 dB m 21 dB m	20.00 dBr	3 • SWT	31.6 s •						
Ref Leve Att SGL 1Pk Clrw 10 dBm 10 dBm 11 dBm 12 dBm	1 20.00 der 30 d	3 • SWT	31.6 s •	VBW 3 MH2					
Ref Leve ● Att SGL ● 1Pk Clrw 10 dBm -11 dBm -11 dBm -21 dBm -21 dBm -21 dBm	1 20.00 der 30 d	3 • SWT	31.6 s •	VBW 3 MH2					
Ref Leve ▲ Att SGL ● 1Pk Clrw 10 dBm -11 dBm -11 dBm -21 dB m -21 dB m -21 dB m -21 dB m -21 dB m -21 dB m -21 dB m	1 20.00 der 30 d	3 • SWT	31.6 s •	VBW 3 MH2					
Ref Leve Att SGL 1Pk Clrw 10 dBm 10 dBm -11 dE T -21 dE T -31 dE T -50 dBm -60 dBm	1 20.00 der 30 d	3 • SWT	31.6 s •	VBW 3 MH2					
Ref Leve Att SGL 1Pk Clrw 10 dBm 10 dBm -11 dE T -21 dE T -32 dE = -50 dBm	1 20.00 der 30 d	3 • SWT	31.6 s •	VBW 3 MH2					
Ref Leve Att SGL 1Pk Clrw 10 dBm 10 dBm -11 dE T -21 dE T -31 dE T -50 dBm -60 dBm	1 20.00 der 30 d	3 • SWT	31.6 s •	VBW 3 MH2			and the state		3.16 s/





●1Pk Clrw)								
10 40-2					м	1[1]			-1.20 dBm)0000000 s
10 dBm	M1				D	1[1]		2	-0.09 dB 2.88800 ms
0 dBm	- gilo'id roadisol		0491						
-10 dBm 7	RG -9.000	dBm=							
-20 dBm									
-30 dBm									
-40 dBm									
Mar Marine Marine	м			g.	helphille betogen the	MANAMA		4.1.4.4.	NY AMONAN
-60 dBm									
-70 dBm									
CF 2.441 GH	lz			1001	L pts				800.0 µs/
Marker 	Trc	X-value		Y-value	Func	tion	Fund	tion Result	
M1 D1 M1	1	2.8	0.0 s 388 ms	-1.20 dE -0.09					
	11					Read	ly (II		1
	Л					/			
	л р							- d	
	D'	well NV	'NT 3-D	H5 244	1MHz A	nt1 Acc	umulate	d	
Spectrum					1MHz A	nt1 Acc	umulate	d	
Ref Level 2 Att	0.00 dBm		2.39 dB 👄 🛛	H5 244 RBW 1 MHz /BW 1 MHz	1MHz A	nt1 Acc	umulate	ed	
Ref Level 2 Att SGL	0.00 dBm	Offset 2	2.39 dB 👄 🛛	RBW 1 MHz	1MHz A	nt1 Acc	umulate	ed	
Ref Level 2 Att	0.00 dBm	Offset 2	2.39 dB 👄 🛛	RBW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level 2 Att SGL	0.00 dBm	Offset 2	2.39 dB 👄 🛛	RBW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level 2 Att SGL 1Pk Clrw	0.00 dBm	Offset 2	2.39 dB 👄 🛛	RBW 1 MHz	1MHz A	nt1 Acc		ed	
Ref Level 2 Att SGL 1Pk Clrw	0.00 dBm	Offset 2	2.39 dB 👄 🛛	RBW 1 MHz	1MHz A	nt1 Acc			
Ref Level 2 Att SGL 1Pk Clrw	0.00 dBm	Offset 2	2.39 dB 👄 🛛	RBW 1 MHz	1MHz A	nt1 Acc			
Ref Level 2 Att SGL 1Pk Clrw	0.00 dBm	Offset 2	2.39 dB 👄 🛛	RBW 1 MHz	1MHz A	nt1 Acc			
Ref Level 2 Att SGL SGL 1Pk Clrw 10 dBm 10 10 dBm 10 2 dBm 10 -12 d2m 10	0.00 dBm	Offset 2 SWT	2.39 dB 👄 🛛	RBW 1 MHz /BW 1 MHz					
Ref Level 2 Att SGL ● 1Pk Cirw 10 dBm - 10 dBm - 12 dBm - 22 d2m	0.00 dBm 35 dB	Offset 2 SWT	2.39 dB • R 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 2 Att SGL ● 1Pk Cirw 10 dBm - 12 d2m - 21 d2m - 21 d2m	0.00 dBm 35 dB /	Offset 2 SWT	2.39 dB • R 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 2 Att SGL ● 1Pk Cirw 10 dBm - 12 d2m - 21 d2m - 21 d2m	0.00 dBm 35 dB /	Offset 2 SWT	2.39 dB • R 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 2 Att SGL ● 1Pk Cirw 10 dBm -12 d8m -12 d8m -22 d8m -30 d8m	0.00 dBm 35 dB /	Offset 2 SWT	2.39 dB • R 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 2 Att SGL I 10 dBm 10 dBm 10 dBm 12 dBm -2 dBm -30 dBm -50 dBm -60 dBm	0.00 dBm 35 dB /	Offset 2 SWT	2.39 dB • R 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 2 Att SGL 10 dBm 10 dBm 10 dBm 10 dBm 21 d2m 22 d2m -25 d2m -50 dBm	0.00 dBm 35 dB /	Offset 2 SWT	2.39 dB • R 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 2 Att SGL • 1Pk Clrw 10 dBm • 1D dBm • 12 d2 m • 22 d2 m • 30 d2m • 50 dBm -60 dBm	0.00 dBm 35 dB	Offset 2 SWT	2.39 dB • R 31.6 s • V	RBW 1 MHz /BW 1 MHz					
Ref Level 2 Att SGL ● 1Pk Clrw 10 dBm +12 d2m +21 d2m +35 d2m -50 dBm -60 dBm -70 dBm	0.00 dBm 35 dB	Offset 2 SWT	2.39 dB • R 31.6 s • V	2BW 1 MHz /BW 1 MHz					3.16 s/





8.2 MAXIMUM CONDUCTED OUTPUT POWER

			-			
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.02	21	Pass
NVNT	1-DH5	2441	Ant1	-0.56	21	Pass
NVNT	1-DH5	2480	Ant1	-0.16	21	Pass
NVNT	2-DH5	2402	Ant1	1.99	21	Pass
NVNT	2-DH5	2441	Ant1	1.28	21	Pass
NVNT	2-DH5	2480	Ant1	1.76	21	Pass
NVNT	3-DH5	2402	Ant1	2.49	21	Pass
NVNT	3-DH5	2441	Ant1	1.68	21	Pass
NVNT	3-DH5	2480	Ant1	2.13	21	Pass





Spectrum		wer NVNT 1-D	110 2402101127			
Ref Level 20.00 d	dB SWT	.38 dB 👄 RBW 2 MHz 1 ms 👄 VBW 2 MHz	Mode Auto Sweep			(\>)
1Pk Max	-	1 1	1			
			M1[1]			0.02 dBm 8010 GHz
10 dBm		M1				
0 dBm						
-10 dBm	1					
-20 dBm						
-20 0011						
-30 dBm						
-40 dBm						
-50 dBm						
-60 dBm						
-70 dBm						
CF 2.402 GHz		100	1 pts		 	5.0 MHz
	Po		Re	adv	span	J.U MH2
Spectrum Ref Level 20.00 c Att 35	IBm Offset 2 dB SWT	DWER NVNT 1-D .39 dB • RBW 2 MHz 1 ms • YBW 2 MHz	H5 2441MHz /	Ant1		
Spectrum	IBm Offset 2 dB SWT	Wer NVNT 1-D	H5 2441MHz /	Ant1		111
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 1Pk Max	IBm Offset 2 dB SWT	Wer NVNT 1-D	H5 2441MHz /	Ant1		111
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 1Pk Max	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 1Pk Max 10 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	H5 2441MHz / Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 1Pk Max 10 dBm 0 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 PIPk Max 10 dBm -10 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/100 PIPk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1		(₩) (₩) 0.56 dBm
Spectrum Ref Level 20.00 c Att 35 SGL Count 100/100 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	IBm Offset 2 dB SWT	Wer NVNT 1-D	Mode Auto Sweep	Ant1	2.4411	(₩) (₩) 0.56 dBm

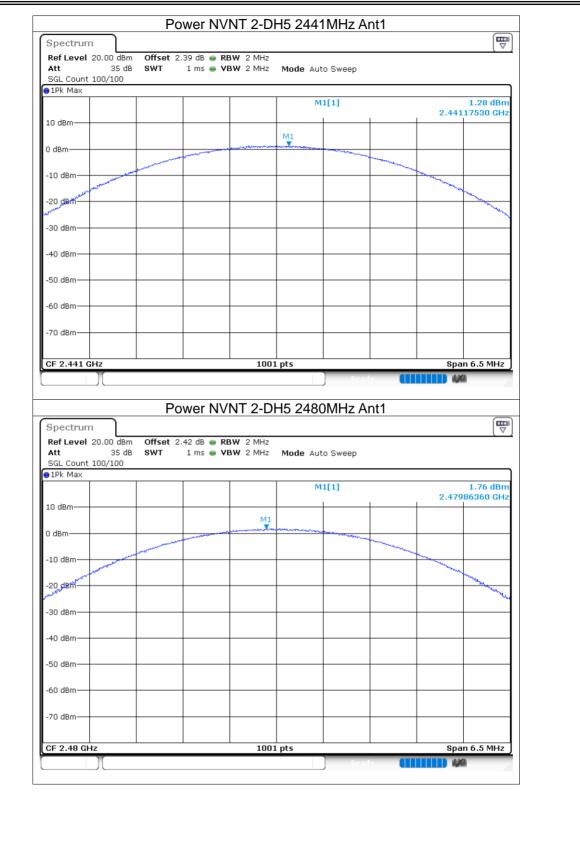




Ref Level 20.00 dBn Att 35 di SGL Count 100/100 1Pk Max		42 dB 👄 RB 1 ms 👄 VB		Mode Auto	Sweep			
				M1[[1]		2.47	-0.16 dBm 979520 GHz
10 dBm							2.00	
0 dBm			M1					
-10 dBm								
-20 dBm								
-30 dBm								
-40 dBm								
-50 dBm								
-60 dBm								
-70 dBm								
CF 2.48 GHz			1001	nts				an 5.0 MHz
			1001	, pts	Ready	a	apr	M
Ref Level 20.00 dBn	n Offset 2.	38 dB 👄 RB	W 2 MHz	H5 24021		it1		
Ref Level 20.00 dBn Att 35 df SGL Count 100/100	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	it1		
Ref Level 20.00 dBn Att 35 df SGL Count 100/100 1Pk Max	n Offset 2.	38 dB 👄 RB	W 2 MHz		Sweep	.t1	2.40	
Ref Level 20.00 dBn Att 35 di SGL Count 100/100)1Pk Max	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	ıt1	2.40	1.99 dBm
Ref Level 20.00 dBn Att 35 di SGL Count 100/100)1Pk Max	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	t1	2.40	1.99 dBm
Ref Level 20.00 dBn Att 35 di SGL Count 100/100 PIPk Max 10 dBm 10 dBm 0 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	.t1	2.40	1.99 dBm
Ref Level 20.00 der Att 35 di SGL Count 100/100 >IPk Max 10 dBm -10 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	.t1	2.40	1.99 dBm
Ref Level 20.00 dBn Att 35 di SGL Count 100/100 IPk Max 10 dBm -10 dBm -20 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	.t1	2.40	1.99 dBm
Ref Level 20.00 den Att 35 di SGL Count 100/100 IPk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep		2.40	1.99 dBm
Ref Level 20.00 dBr Att 35 di SGL Count 100/100 1Pk Max 10 dBm 10 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	.t1	2.40	1.99 dBm
SGL Count 100/100 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	.t1	2.40	1.99 dBm
Ref Level 20.00 dBr Att 35 di SGL Count 100/100 1Pk Max 10 10 dBm 10 -10 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep		2.40	1.99 dBm
Ref Level 20.00 dBr Att 35 di SGL Count 100/100 1Pk Max 10 10 dBm 10 -10 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep	.t1	2.40	1.99 dBm
Ref Level 20.00 dBr Att 35 di SGL Count 100/100 1Pk Max 10 dBm 10 dBm	n Offset 2.	38 dB 👄 RB	W 2 MHz	Mode Auto	Sweep			1.99 dBm
Ref Level 20.00 den Att 35 di SGL Count 100/100 IPK Max	n Offset 2.	38 dB 👄 RB	2 MHz 2 MHz	Mode Auto	Sweep			1.99 dBm 217530 GHz

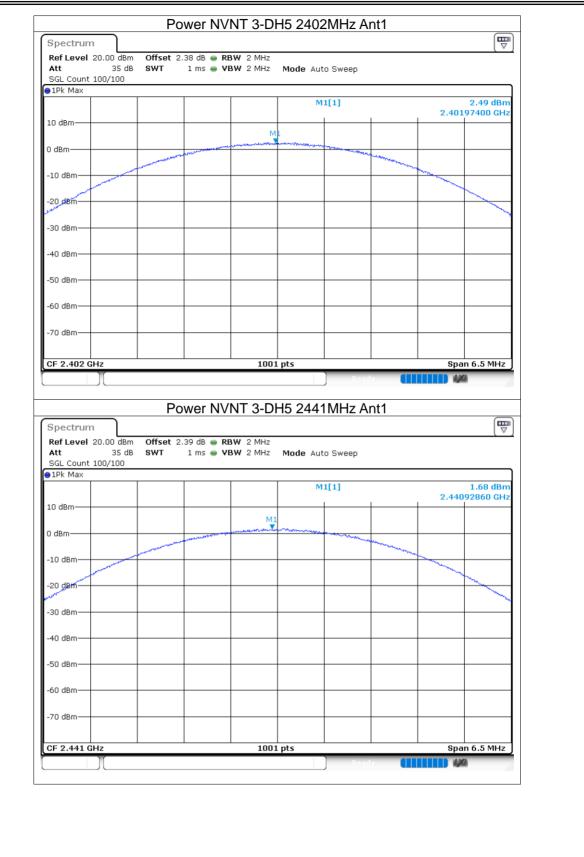
















Spectrum					
Ref Level 20.00 d		2.42 dB 🔵 RBW 2 MHz			<u>`</u>
	db SWT	1 ms 👄 VBW 2 MHz	Mode Auto Sweep		
SGL Count 100/10 1Pk Max	0				
			M1[1]		2.13 dBm
					2.47996750 GHz
10 dBm					
		M	- I		
) dBm		and the second s	and the state of the second of		
	and the second s			and a second and a second as a	
-10 dBm					ma .
and the second second					and a street
20 dBm					
00.40					
-30 dBm					
40 dBm					
-to ubin					
50 dBm					
-60 dBm					
70 dBm					
CF 2.48 GHz		100	l pts		Span 6.5 MHz





8.3 -20DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.938	Pass
NVNT	1-DH5	2441	Ant1	0.94	Pass
NVNT	1-DH5	2480	Ant1	0.928	Pass
NVNT	2-DH5	2402	Ant1	1.336	Pass
NVNT	2-DH5	2441	Ant1	1.282	Pass
NVNT	2-DH5	2480	Ant1	1.288	Pass
NVNT	3-DH5	2402	Ant1	1.3	Pass
NVNT	3-DH5	2441	Ant1	1.32	Pass
NVNT	3-DH5	2480	Ant1	1.298	Pass





























Spectru	im					
Ref Leve	el 20.00 dB	m Offset 2.42 dB 👄	RBW 30 kHz			('
Att	35 (_	VBW 100 kHz M	Iode Auto FFT		
SGL Cour	nt 100/100					
1Pk Max						
				M1[1]		-3.59 dBm
10 dBm—					2.480	02000 GHz
LO 08m—				M2[1]	-	23.09 dBm
) dBm—			M1		2.479	35200 GHz
, abili			X X			
10 dBm-			-hand	~ 1		
			1 1	~~	r m	
20 dBm—	M	2			MR MR	
	1 2					
30 dBm—	+					
40 dBm-	\sim					
	Ŷ					~
50 dBm—						
60 dBm—						
ou ubiii-						
70 dBm-						
/o ubiii						
CF 2.48	GHz		1001 pts		Spa	n 2.0 MHz
larker						
	tef Trc	X-value	Y-value	Function	Function Result	
M1	1	2.48002 GHz	-3.59 dBm			
M2	1	2.479352 GHz	-23.09 dBm			
M3	1	2.48065 GHz	-23.40 dBm			



8.4 OCCUPIED CHANNEL BANDWIDTH

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
1-DH5	2402	Ant1	0.863
1-DH5	2441	Ant1	0.853
1-DH5	2480	Ant1	0.855
2-DH5	2402	Ant1	1.193
2-DH5	2441	Ant1	1.195
2-DH5	2480	Ant1	1.189
3-DH5	2402	Ant1	1.181
3-DH5	2441	Ant1	1.195
3-DH5	2480	Ant1	1.191
	Mode 1-DH5 1-DH5 2-DH5 2-DH5 2-DH5 3-DH5 3-DH5	1-DH5 2402 1-DH5 2441 1-DH5 2480 2-DH5 2402 2-DH5 2441 2-DH5 2441 3-DH5 2402 3-DH5 2402	ModeFrequency (MHz)Antenna1-DH52402Ant11-DH52441Ant11-DH52480Ant12-DH52402Ant12-DH52441Ant12-DH52480Ant13-DH52402Ant13-DH52441Ant1

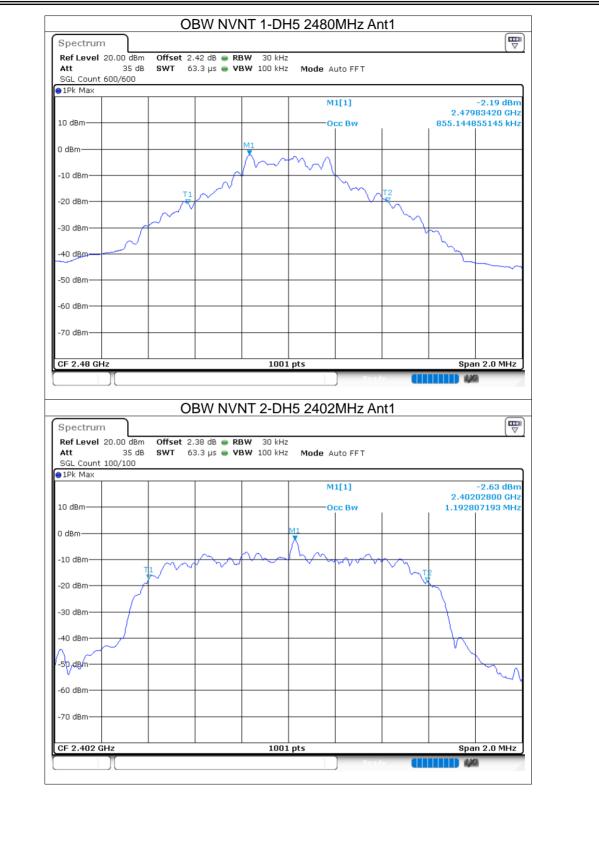


















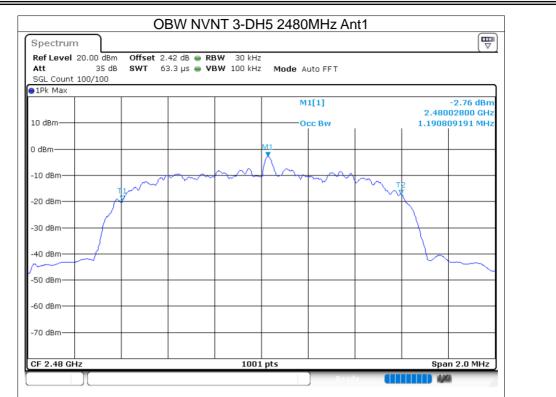














8.5 CARRIER FREQUENCIES SEPARATION

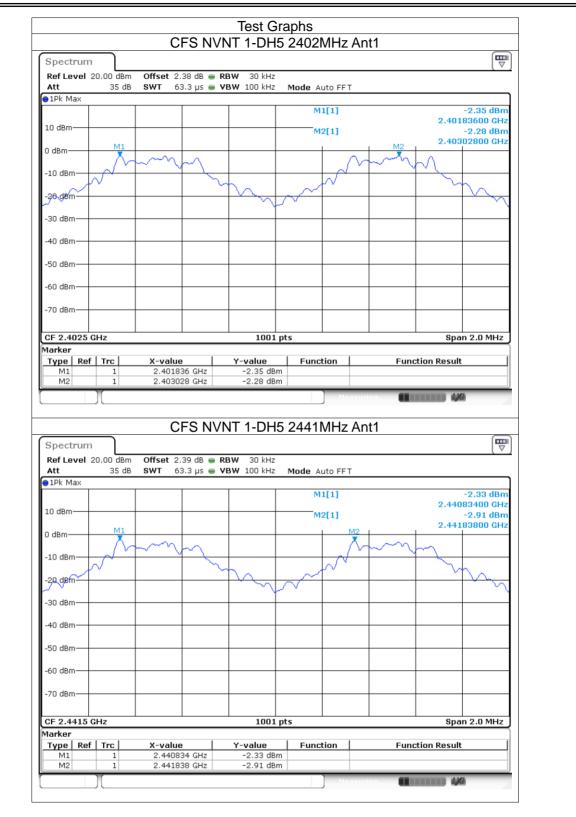
.5	OANNER							
	Condition	Mode	Antenna	Hopping	Hopping	HFS	Limit	Verdict
				Freq1 (MHz)	Freq2 (MHz)	(MHz)	(MHz)	
	NVNT	1-DH5	Ant1	2401.836	2403.028	1.192	0.625	Pass
	NVNT	1-DH5	Ant1	2440.834	2441.838	1.004	0.627	Pass
	NVNT	1-DH5	Ant1	2479.028	2480.056	1.028	0.619	Pass
	NVNT	2-DH5	Ant1	2402.026	2403.012	0.986	0.891	Pass
	NVNT	2-DH5	Ant1	2441.008	2442.078	1.07	0.855	Pass
	NVNT	2-DH5	Ant1	2479.078	2480.077	0.999	0.859	Pass
	NVNT	3-DH5	Ant1	2402.026	2403.024	0.998	0.867	Pass
	NVNT	3-DH5	Ant1	2440.977	2441.978	1.001	0.88	Pass
	NVNT	3-DH5	Ant1	2479.028	2480.166	1.138	0.865	Pass

ilac.M

ACCREDITED Certificate #4298.01

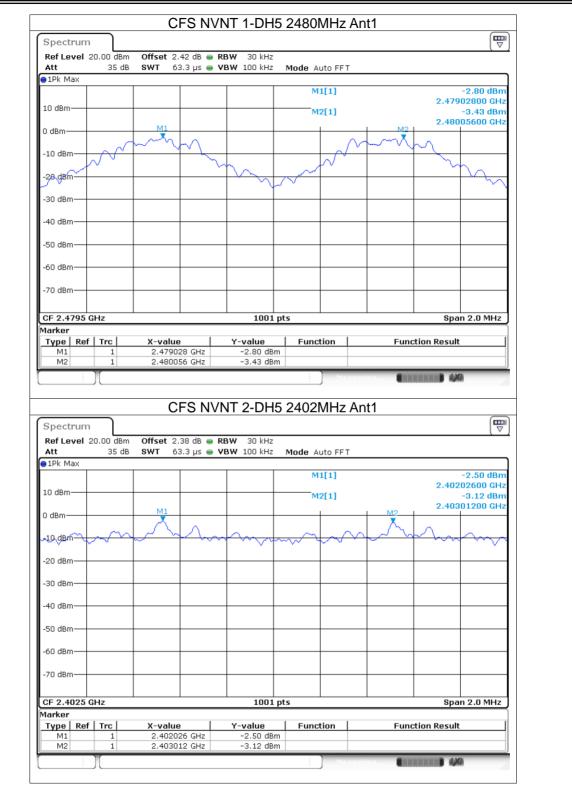






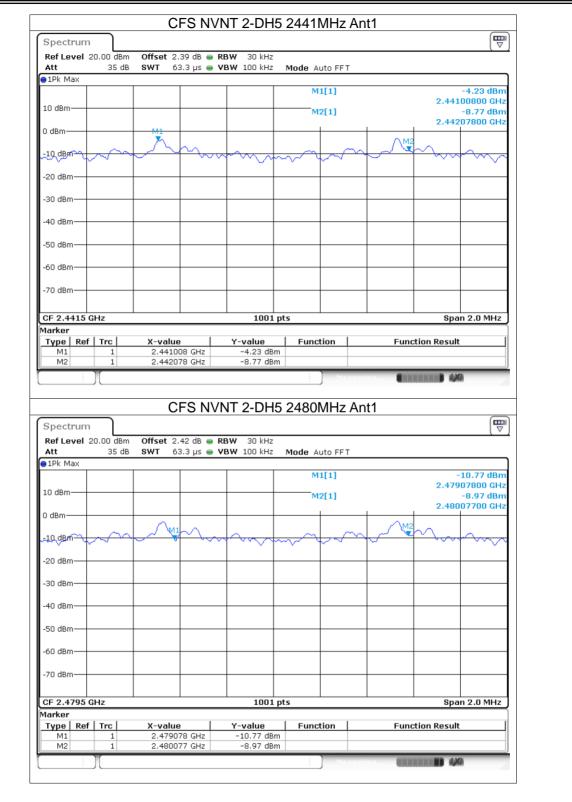






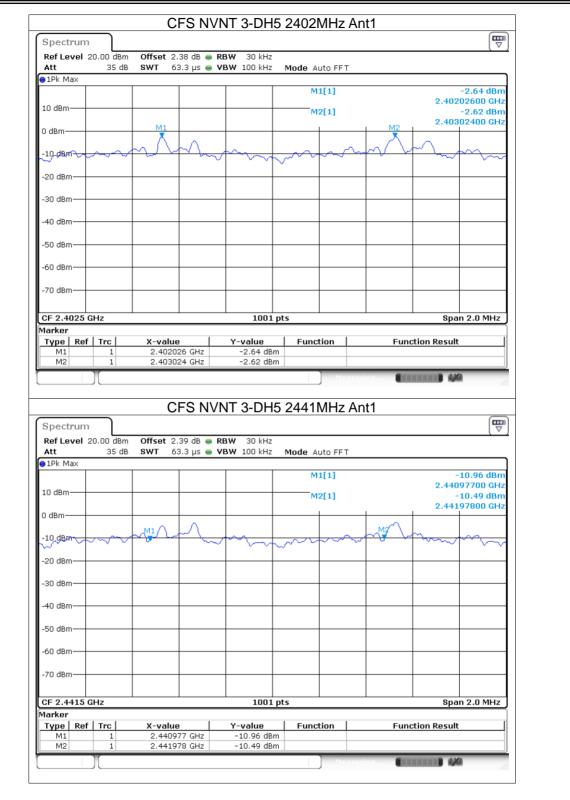






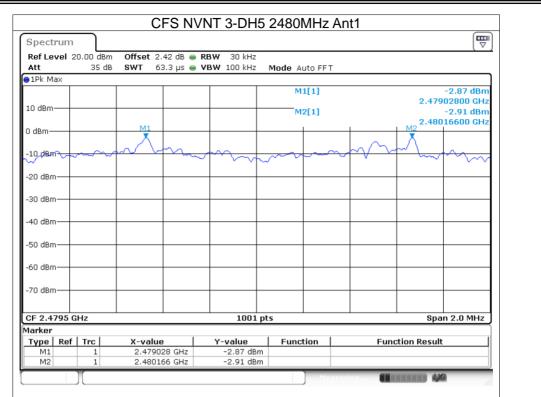














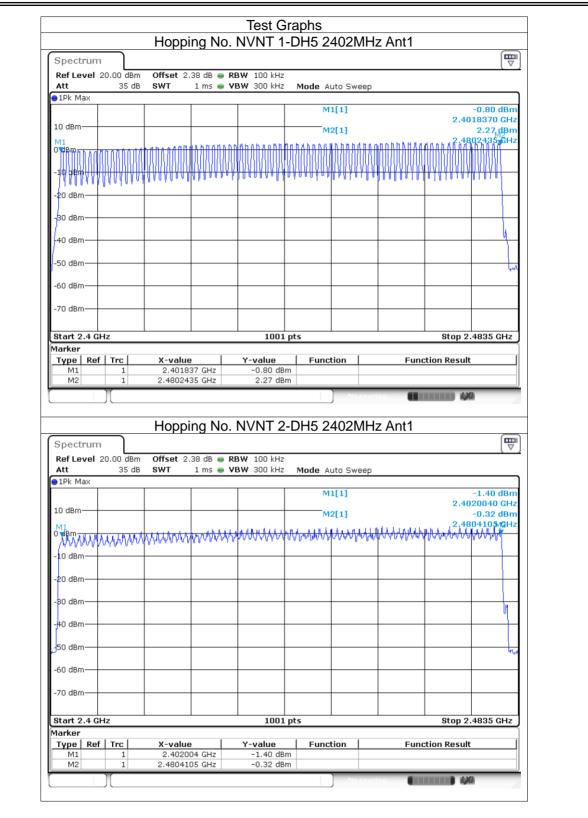


8.6 NUMBER OF HOPPING CHANNEL

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











Spectru	n					
Ref Level			RBW 100 kHz			
Att	35	dB SWT 1 ms 👄	VBW 300 kHz	Mode Auto Swee	эр	
1Pk Max						
				M1[1]		-3.19 dBm
10 dBm						2.4016700 GHz
				M2[1]		-1.74 dBm 2 4904940 CHz
	100.1	. Harristak and the	John MANNA	Annald hadded	www.	2.4804940 GHz
Markey	44747444	www.titure.oglandlandlandlandlandlandlandlandlandland	<u>կաստություն հարլ</u>	00	Jene I cumpan	Nu - a 0 0 0 1 · · · · v 4
-10 dBm—						
-20 dBm—						
-30 dBm—						
						v v
-40 dBm—						
{						
50 dBm—						
-60 dBm—						
-70 dBm—						
Start 2.4	GHz		1001 pt:	S		Stop 2.4835 GHz
1arker						
Type R		X-value	Y-value	Function	Functio	n Result
M1	1	2.40167 GHz	-3.19 dBm			
M2	1	2.480494 GHz	-1.74 dBm			





8.7 BAND EDGE

• /								
	Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
	NVNT	1-DH5	2402	Ant1	No-Hopping	-48.92	-20	Pass
	NVNT	1-DH5	2480	Ant1	No-Hopping	-51.57	-20	Pass
	NVNT	2-DH5	2402	Ant1	No-Hopping	-50.23	-20	Pass
	NVNT	2-DH5	2480	Ant1	No-Hopping	-48.96	-20	Pass
	NVNT	3-DH5	2402	Ant1	No-Hopping	-50.13	-20	Pass
	NVNT	3-DH5	2480	Ant1	No-Hopping	-60.77	-20	Pass





0		Lugen		2110 240	2MHz Ar			IS IVEI	
Spectrur Bof Loual		Officiation	20 d0 - P	BW 100 kHz					
Att SGL Count	35 dB				Mode Auto	D FFT			
1Pk Max									
					M1[:	1]		0.404	-0.87 dBm
10 dBm								2.401	96800 GHz
0 dBm				M	~				
-10 dBm—									
-20 dBm—									
-30 dBm—									
-40 dBm—			\land			\sum			
-50 dBm—						+			
m	pm	m	\sim			\mathcal{M}	\sim	\sim	m
-60 dBm—									
-70 dBm—									
	<u> </u>								
CF 2.402	GHZ			1001	pts			spa	n 8.0 MHz
E	J	ge NVN	T 1-DH	5 2402N	1Hz Ant1	Read No-H	opping	Emissio	
E	n			5 2402N		Read No-H	opping	Emissio	J
E Spectrur Ref Level Att	m 20.00 dBm 35 dB	Offset 2	2.38 dB 👄 F	RBW 100 kHz			opping	Emissio	
E Spectrur Ref Level Att SGL Count	m 20.00 dBm 35 dB	Offset 2	2.38 dB 👄 F	RBW 100 kHz	2		opping	Emissio	
E Spectrur Ref Level Att SGL Count	m 20.00 dBm 35 dB	Offset 2	2.38 dB 👄 F	RBW 100 kHz	2	to FFT	opping		-0.31 dBm
E Spectrur Ref Level Att SGL Count JPk Max	m 20.00 dBm 35 dB	Offset 2	2.38 dB 👄 F	RBW 100 kHz	: Mode Aut	to FFT	opping	2.401	-0.31 dBm 85000 GHz 53.06,dBm
E Spectrur Ref Level Att SGL Count 1Pk Max 10 dBm-	m 20.00 dBm 35 dB	Offset 2	2.38 dB 👄 F	RBW 100 kHz	: : Mode Aut 	to FFT	opping	2.401	-0.31 dBm 85000 GHz
E Spectrur Ref Level Att SGL Count JPk Max 10 dBm	m 20.00 dBm 35 dB	Offset 2	2.38 dB 👄 F	RBW 100 kHz	: : Mode Aut 	to FFT	opping	2.401	-0.31 dBm 85000 GHz 53.06,dBm
E Spectrur Ref Level Att SGL Count 10 dBm- 0 dBm-	m 20.00 dBm 35 dB	Offset 2 SWT 22	2.38 dB 👄 F	RBW 100 kHz	: : Mode Aut 	to FFT	opping	2.401	-0.31 dBm 85000 GHz 53.06,dBm
E Spectrur Ref Level Att SGL Count JPK Max 10 dBm	m	Offset 2 SWT 22	2.38 dB 👄 F	RBW 100 kHz	: : Mode Aut 	to FFT	opping	2.401	-0.31 dBm 85000 GHz 53.06,dBm
E Spectrur Ref Level SGL Count SGL Count J Drk Max 10 dBm	m	Offset 2 SWT 22	2.38 dB 👄 F	RBW 100 kHz	: : Mode Aut 	to FFT	opping	2.401	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level SGL Count 10 dBm	n 20.00 dBm 35 dB t 500/500	Offset 2 SWT 22	2.38 dB ● F 27.5 μs ● V	RBW 100 kHz /BW 300 kHz		to FFT 1] 1]		2.401 - 2.400	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level 10 dBm	n 20.00 dBm 35 dB t 500/500	Offset 2 SWT 22	2.38 dB ● F 27.5 μs ● V	RBW 100 kHz	: : Mode Aut 	to FFT 1] 1]		2.401 - 2.400	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level Att SGL Count JIPK Max JID dBm	n 20.00 dBm 35 dB t 500/500	Offset 2 SWT 22	2.38 dB ● F 27.5 μs ● V	RBW 100 kHz /BW 300 kHz		to FFT 1] 1]		2.401 - 2.400	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level SGL Count JIPK Max JIO dBm	n 20.00 dBm 35 dB 500/500	Offset 2 SWT 22	2.38 dB ● F 27.5 μs ● V	RBW 100 kHz /BW 300 kHz		to FFT 1] 1]		2.401 - 2.400 	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level SGL Count 9 IPk Max 10 dBm	n 20.00 dBm 35 dB 500/500	Offset 2 SWT 22	2.38 dB ● F 27.5 μs ● V	RBW 100 kHz /BW 300 kHz		to FFT 1] 1]		2.401 - 2.400 	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level Att SGL Count SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	n 20.00 dBm 35 dB 500/500	Offset 2 SWT 22	2.38 dB 7.5 μs N4 M4 M4	RBW 100 kHz /BW 300 kHz /BW 300 kHz ////////////////////////////////////	* Mode Aut M1[: M2[: ////////////////////////////////////	to FFT 1] 1]		2.401 - 2.400 	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level Att SGL Count 9 1Pk Max 10 dBm -0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -70 dBm Start 2.300 Marker Type Ref M1	T 20.00 dBm 35 dB 500/500 	Offset 2 SWT 22	2.38 dB 27.5 μs N4 M4 M4 M5 S5 GHz	XBW 100 kHz YBW 300 kHz YBW 300 kHz YBW 300 kHz YBW 300 kHz YBW 300 kHz YBW 300 kHz YBW 300 kHz YBW 1001 Y-value	: Mode Aut	to FFT 1] 1]		2.401 - 2.400 	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level Att SGL Count D 1Pk Max 10 dBm	1 20.00 dBm 35 dB 500/500	Offset 2 SWT 22 dBm dBm dBm dBm dBm dBm dBm dBm 2 dBm 2 dBm 2 dBm 2 dBm dBm 2 dBm 2 dBm 2 dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	2.38 dB • F 27.5 μs • V M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	RBW 100 kHz /BW 300 kHz /BW 300 kHz ////////////////////////////////////	: Mode Aut M1[: M2]: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2[: M2[: M2]: M2[: M2	to FFT 1] 1]		2.401 - 2.400 	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz
E Spectrur Ref Level Att SGL Count JPk Max 10 dBm 	T 20.00 dBm 35 dB 500/500 	Offset 2 SWT 22 dBm dBm dBm dBm dBm dBm dBm dBm 2 dBm 2 dBm 2 dBm 2 dBm dBm 2 dBm 2 dBm 2 dBm dBm dBm dBm dBm dBm dBm dBm dBm dBm	2.38 dB • F 27.5 μs • V	RBW 100 kHz /BW 300 kHz /BW 3	: Mode Aut M1[: M2]: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2]: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2[: M2]: M2[: M2[: M2[: M2[: M2[: M2[: M2]: M2[: M2	to FFT 1] 1]		2.401 - 2.400 	-0.31 dBm 85000 GHz 53.06 dBm 00000 GHz





Ref Level 2 Att SGL Count 1	35 dB			BW 100 kHz BW 300 kHz		uto FFT			
⊖1Pk Max				1	I				
					м	1[1]		2.480	-1.19 dBn)02400 GH;
10 dBm									
0 dBm				N	1				
U UBIII				\sim	7				
-10 dBm					+				
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-30 dBm				1/					
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			2			5			
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-60 dBm	· · · · · · · · · · · · · · · · · · ·								~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
-70 dBm									
CF 2.48 GH	7			1001	nts				in 8.0 MHz
	Y			1001		Read	ly 🚺		0
-		ge NVN	T 1-DH	15 24801	MHz Ant	t1 No-H	opping	Emissic	
Spectrum Ref Level 2 Att SGL Count 1	20.00 dBm 35 dB	Offset 2	.42 dB 😑 I	15 24801 RBW 100 kH VBW 300 kH	z		opping	Emissic	on (₩
Spectrum Ref Level 2 Att	20.00 dBm 35 dB	Offset 2	.42 dB 😑 I	RBW 100 kH	z z Mode /		opping		-0.51 dBn
Spectrum Ref Level 2 Att SGL Count 1 • 1Pk Max	20.00 dBm 35 dB	Offset 2	.42 dB 😑 I	RBW 100 kH	z z Mode /	Auto FFT	opping	2.480	
Spectrum Ref Level 2 Att SGL Count 1 ●1Pk Max	20.00 dBm 35 dB	Offset 2	.42 dB 😑 I	RBW 100 kH	z z Mode /	Auto FFT		2.480	-0.51 dBn)15000 GH:
Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 10 dBm M1	20.00 dBm 35 dB	Offset 2	.42 dB 😑 I	RBW 100 kH	z z Mode /	Auto FFT	opping	2.480	-0.51 dBn 015000 GH: -54.27 dBn
Spectrum Ref Level 2 Att SGL Count 1 P1Pk Max 10 dBm M1 0 dBm -10 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 😑 I	RBW 100 kH	z z Mode /	Auto FFT	opping	2.480	-0.51 dBn 015000 GH: -54.27 dBn
Spectrum Ref Level 2 Att SGL Count 1 © 1Pk Max 10 dBm 0 dBm 	20.00 dBm 35 dB	Offset 2 SWT 22	.42 dB 😑 I	RBW 100 kH	z z Mode /	Auto FFT	opping	2.480	-0.51 dBn 015000 GH: -54.27 dBn
Spectrum Ref Level 2 Att SGL Count 1 @ 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 😑 I	RBW 100 kH	z z Mode /	Auto FFT	opping	2.480	-0.51 dBn 015000 GH: -54.27 dBn
Spectrum Ref Level 2 Att SGL Count 1 © 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 😑 I	RBW 100 kH	z z Mode /	Auto FFT	opping	2.480	-0.51 dBn 015000 GH: -54.27 dBn
Spectrum Ref Level 2 Att SGL Count 1 @ 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 🖷 I .7.5 μs 🖷 Υ	RBW 100 kH	z z Mode /	Auto FFT 1[1] 2[1]		2.480	-0.51 dBn 015000 GH: -54.27 dBn
Spectrum Ref Level 2 Att SGL Count 1 © 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 😑 I	RBW 100 kH	z Mode /	Auto FFT 1[1] 2[1]		2.480	-0.51 dBn 015000 GH: 54.27 dBn 850000 GH:
Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 10 dBm -10 dBm -10 dBm -20 cBm -30 cBm -40 dBm -50 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 🖷 Ι .7.5 μs 🖷 Υ	RBW 100 kH	z Mode /	Auto FFT 1[1] 2[1]		2.480	-0.51 dBn 015000 GH: 54.27 dBn 850000 GH:
Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 🖷 Ι .7.5 μs 🖷 Υ	RBW 100 kH	z Mode /	Auto FFT 1[1] 2[1]		2.480 2.483	-0.51 dBn 15000 GH: 54.27 dBn 50000 GH:
Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm	20.00 dBm 35 dB 100/100	Offset 2 SWT 22	.42 dB 🖷 Ι .7.5 μs 🖷 Υ	RBW 100 kH	z Mode /	Auto FFT 1[1] 2[1]		2.480 2.483 ໃນຢູ່ງ ^{ກ,44} ່າຍານ Stop	-0.51 dBn 115000 GH: 54.27 dBn 50000 GH: 50000 GH: 2.576 GHz
Spectrum Ref Level 2 Att SGL Count 1 ● 1Pk Max 10 dBm -10 dBm -20 cBm -30 cBm -30 cBm -50 dBm -70 dBm -70 dBm Start 2.476 Marker Type Ref	20.00 dBm 35 dB 100/100 01 -21.189 01 -21.189 M4 Mutwytywyty GHz	Offset 2 SWT 22	.42 dB • 1 ?7.5 μs • 1	RBW 100 kH	2 Mode م M M میانید میانید pts	Auto FFT 1[1] 2[1]		2.480 2.483	-0.51 dBn 115000 GH: 54.27 dBn 50000 GH: 50000 GH: 2.576 GHz
Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dB	20.00 dBm 35 dB 100/100 01 -21.189 01 -21.189 M4 ml/Mr/4 Jun GHz 1 1	Offset 2 SWT 22 dBm dBm <u>M3</u> <i>M</i> 2.4801 2.4801 2.4801 2.4801		RBW 100 kH VBW 300 kH	2 2 Mode / س س بالنديم/مريم/ . pts	Auto FFT 1[1] 2[1]		2.480 2.483 ໃນຢູ່ງ ^{ກ,44} ່າຍແນ Stop	-0.51 dBn 115000 GH: 54.27 dBn 50000 GH: 50000 GH: 2.576 GHz
Spectrum Ref Level 2 Att SGL Count 1 9 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dB	20.00 dBm 35 dB 000/100 01 -21.189 01 -21.189 01 -21.189 01 -21.189 01 -21.189	Offset 2 SWT 22 dBm dBm M3 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	1.42 dB 17.5 μs 17.5	RBW 100 kH VBW 300 kH	z Mode / M M M M S S S S S S S S S S S S S S S	Auto FFT 1[1] 2[1]		2.480 2.483 ໃນຢູ່ງ ^{ກ,44} ່າຍແນ Stop	-0.51 dBn 115000 GH: 54.27 dBn 50000 GH: 50000 GH: 2.576 GHz





Spectrum Ref Level 3 Att SGL Count	20.00 dBr 35 d			₩ 100 kHz ₩ 300 kHz	Mode Au	uto FFT			
●1Pk Max					MI	L[1]			-0.89 dBm
					IN .	(1)		2.402	204000 GHz
10 dBm									
0 dBm				N11					
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-10 dBm					\rightarrow				
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Ba	and E	dge NVNT				Pear 1 No-H	le 🕕		in 8.0 MHz 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ba Spectrum Ref Level 3 Att	and E 20.00 dBr 35 d	n Offset 2.3	18 dB 👄 RB	5 2402Mł	Hz Ant		lopping		on
Ba Spectrum Ref Level	and E 20.00 dBr 35 d	n Offset 2.3	18 dB 👄 RB	5 2402MF	Hz Ant	uto FFT	lopping		n (₩ ▼
Back Spectrum Ref Level 3 Att SGL Count ● 1Pk Max	and E 20.00 dBr 35 d	n Offset 2.3	18 dB 👄 RB	5 2402MF	Hz Ant		lopping	Emissic	n
Ba Spectrum Ref Level 3 Att SGL Count I D dBm	and E 20.00 dBr 35 d	n Offset 2.3	18 dB 👄 RB	5 2402MF	Hz Ant Mode A	uto FFT	lopping	Emissic 2.402	-1.00 dBm 215000 GHz 55.12 dBm
Back Spectrum Ref Level 3 Att SGL Count ● 1Pk Max	and E 20.00 dBr 35 d	n Offset 2.3	18 dB 👄 RB	5 2402MF	Hz Ant Mode A	uto FFT	lopping	Emissic 2.402	0000000000000000000000000000000000000
Ba Spectrum Ref Level 3 Att SGL Count I D dBm	and E 20.00 dBr 35 d	n Offset 2.3	18 dB 👄 RB	5 2402MF	Hz Ant Mode A	uto FFT		Emissic 2.402	-1.00 dBm 215000 GHz 55.12 dBm
Ba Spectrum Ref Level 3 Att SGL Count INK Max 10 dBm 0 dBm	20.00 dBr 35 d	m Offset 2.3 B SWT 227.	18 dB 👄 RB	5 2402MF	Hz Ant Mode A	uto FFT		Emissic 2.402	-1.00 dBm 215000 GHz 55.12 dBm
Backson Backso	20.00 dBr 35 d	m Offset 2.3 B SWT 227.	18 dB 👄 RB	5 2402MF	Hz Ant Mode A	uto FFT		Emissic 2.402	-1.00 dBm 215000 GHz 55.12 dBm
Ba Spectrum Ref Level 3 Att SGL Count • 1Pk Max 10 dBm - 10 dBm - 20 dBm	20.00 dBr 35 d	m Offset 2.3 B SWT 227.	18 dB 👄 RB	5 2402MF	Hz Ant Mode A	uto FFT		Emissic 2.402	-1.00 dBm 215000 GHz 55.12 dBm
Ba Spectrum Ref Level 3 Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm	and E 20.00 dBr 35 d 100/100	m Offset 2.3 B SWT 227.	18 dB • RB 5 μs • VB	5 2402Mł 3w 100 kHz 3w 300 kHz	Hz Ant Mode A	uto FFT		2.402 2.400	-1.00 dBm -1.00 dBm 15000 GHz 55.12 dBm 00000 GHz
Ba Spectrum Ref Level : Att SGL Count PIPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm	and E 20.00 dBr 35 d 100/100	m Offset 2.3 B SWT 227.	18 dB • RB 5 μs • VB	5 2402Mł 3w 100 kHz 3w 300 kHz	Hz Ant Mode A M:	L[1] 2[1]		2.402 2.400	-1.00 dBm -1.00 dBm 15000 GHz 55.12 dBm 00000 GHz
Ba Spectrum Ref Level 3 Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm	and E 20.00 dBr 35 d 100/100	m Offset 2.3 B SWT 227.	18 dB • RB 5 μs • VB	5 2402Mł 3w 100 kHz 3w 300 kHz	Hz Ant Mode A M:	L[1] 2[1]		2.402 2.400	-1.00 dBm -1.00 dBm 15000 GHz 55.12 dBm 00000 GHz
Ba Spectrum Ref Level : Att SGL Count PIPk Max 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm	and E 20.00 dBr 35 d 100/100	m Offset 2.3 B SWT 227.	18 dB • RB 5 μs • VB	5 2402Mł 3w 100 kHz 3w 300 kHz	Hz Ant Mode A M:	L[1] 2[1]		2.402 2.400	-1.00 dBm -1.00 dBm 15000 GHz 55.12 dBm 00000 GHz
Ba Spectrum Ref Level : Att SGL Count ID dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm	20.00 dBr 35 d 100/100	m Offset 2.3 B SWT 227.	18 dB • RB 5 μs • VB	5 2402Mł 3w 100 kHz 3w 300 kHz	Mode A	L[1] 2[1]		2.402 2.400	-1.00 dBm -1.00 dBm 215000 GHz 55.12 dBm 000000 GHz
Ba Spectrum Ref Level : Att SGL Count ID dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm -70 dBm Start 2.306 Marker	D1 -20.85	m Offset 2.3 B SWT 227.	18 dB • RB .5 µs • VB	5 2402Mł 3w 100 kHz 3w 300 kHz	Mode A Mode A M2 M2	.uto FFT L[1] 2[1]		2.402 2.400	-1.00 dBm -1.00 dBm 15000 GHz 55.12 dBm 00000 GHz .406 GHz
Baseline Spectrum Ref Level 3 Att SGL Count ● 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm Start 2.3006 Marker Type	D1 -20.89	m Offset 2.3 B SWT 227.	18 dB • RB 5 μs • VB	5 2402Mł 3W 100 kHz 3W 300 kHz	Mode A	.uto FFT L[1] 2[1]		2.402 2.400	-1.00 dBm -1.00 dBm 15000 GHz 55.12 dBm 00000 GHz .406 GHz
Backson Spectrum Ref Level 3 Att SGL Count ID dBm 0 dBm -10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm Start 2.306 Marker Type Ref M1 M2	20.00 dBr 35 d 100/100 D1 -20.89 CHz GHz 1 1	m Offset 2.3 B SWT 227.	8 dB • RB	5 2402Mł 3w 100 kHz 3w 300 kHz	Mode A Mode A M2 M2	.uto FFT L[1] 2[1]		2.402 2.400	-1.00 dBm -1.00 dBm 15000 GHz 55.12 dBm 00000 GHz .406 GHz
Ba Spectrum Ref Level : SGL Count ● 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm Start 2.306 Marker Type Ref M1	20.00 dBr 35 d 100/100 01 -20.89	m Offset 2.3 B SWT 227.	88 dB • RB .5 µs • VB	5 2402Mł 3w 100 kHz 3w 300 kHz	Mode A Mode A M2 M2	.uto FFT L[1] 2[1]		2.402 2.400	-1.00 dBm -1.00 dBm 15000 GHz 55.12 dBm 00000 GHz .406 GHz