

RADIO TEST REPORT FCC ID: 2AUHC-CTIP401

Product:4G Smart phoneTrade Mark:CommuniTakeModel No.:CTIP401Family Model:N/AReport No.:S19082902506001Issue Date:16 Mar. 2020

Prepared for

CommuniTake Technologies Ltd. Yokneam Star Building, High-Tech Park, POB 344, Yokneam, Israel 2069205

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	CommuniTake Technologies Ltd.	
Address	Yokneam Star Building, High-Tech Park, POB 344, Yokneam, Israel 2069205	
Manufacturer's Name:	Shenzhen Joyhong Technology Co., Ltd.	
Address:	Building A2, Xinhu Second Industrial Park, Zhongtai Road, Guangming, Bao'an, Shenzhen, Guangdong, China	
Product description		
Product name:	4G Smart phone	
Model and/or type reference:	CTIP401	
Family Model:	N/A	

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Measurement Procedure Used:

APPLICABLE STANDARDS

STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C KDB 174176 D01 Line Conducted FAQ v01r01 ANSI C63.10-2013	Complied

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

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

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

Date of Test	:	20 Dec. 2019 ~ 10 Mar 2020
Testing Engineer	:	Krang. Hu
		(Mary Hu)
Technical Manager	:	Jason chen
-		(Jason Chen)
		Sam. Chew
Authorized Signatory	:	
		(Sam Chen)

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2 SUMMARY OF TEST RESULTS

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

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Remark:

1. "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.

This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

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

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description	
CNAS-Lab.	: The Laboratory has been assessed and proved to be in compliance with
	CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
	The Certificate Registration Number is L5516.
IC-Registration	The Certificate Registration Number is 9270A.
	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized
	International Standard ISO/IEC 17025:2005 General requirements for
	the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined
	scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	: Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, 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%	

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	4G Smart phone		
Trade Mark	CommuniTake		
FCC ID	2AUHC-CTIP401		
Model No.	CTIP401		
Family Model	N/A		
Model Difference	N/A		
Operating Frequency	2402MHz~2480MHz		
Modulation	GFSK, π/4-DQPSK, 8-DPSK		
Bluetooth Version	BT V4.0		
Number of Channels	79 Channels		
Antenna Type	FPC Antenna		
Antenna Gain	1dBi		
	DC supply: 3.8V/3000mAh from Battery or DC 5V from type C Port.		
Power supply	Adapter supply: Model: SR-C50501000U1 Input: 100-240V~50/60Hz 0.2A Output: 5.0V1000mA		
HW Version	PD3S23CBG1A		
SW Version	PD3S23.ZGW.F5732.HB.P0.HP.H6.0626.V0.04		

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Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.



Revision History

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Certificate #4298.01

Report No.	Version	Description	Issued Date
S19082902506001	Rev.01	Initial issue of report	Mar 16, 2020



5 DESCRIPTION OF TEST MODES

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

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for π /4-DQPSK modulation; 3Mbps for 8-DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2403
39	2441
40	2442
77	2479
78	2480

Note: fc=2402MHz+k×1MHz k=0 to 78

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

For AC Conducted Emission		
Final Test Mode	Description	
Mode 1	normal link mode	

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

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

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

For Conducted Test Cases						
Final Test Mode Description						
Mode 2	CH00(2402MHz)					
Mode 3 CH39(2441MHz)						
Mode 4	CH78(2480MHz)					
Mode 5	Mode 5 Hopping mode					
	and the second sec					

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



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



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.

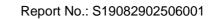
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	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

Kind of Equipment	Manufacturer	Turne Me		Last	Calibrated	Calibrati
		Type No.	Serial No.	calibration	Calibrated until	on period
Spectrum Analyzer	Aglient	E4407B	MY45108040	2019.05.13	2020.05.12	1 year
Spectrum Analyzer	Agilent	N9020A	MY49100060	2019.08.28	2020.08.27	1 year
Spectrum Analyzer	R&S	FSV40	101417	2019.08.28	2020.08.27	1 year
Test Receiver	R&S	ESPI7	101318	2019.05.13	2020.05.12	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year
Horn Antenna	EM	EM-AH-1018 0	2011071402	2019.04.15	2020.04.14	1 year
Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2019.12.09	2020.12.08	1 year
Amplifier	EMC	EMC051835 SE	980246	2019.08.04	2020.08.03	1 year
Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2018.12.11	2019.12.10	1 year
Power Meter	DARE	RPR3006W	15I00041SN 084	2019.08.04	2020.08.03	1 year
Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
Test Cable	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
	AnalyzerSpectrumAnalyzerSpectrumAnalyzerTest ReceiverBilog Antenna50Ω CoaxialSwitchHorn AntennaBroadbandHorn AntennaAnglifierActive LoopAntennaPower MeterTest Cable(30MHz-1GHz)High TestCable(1G-40GHz)High TestCable(1G-40GHz)Filtertemporaryantennaconnector	AnalyzerAgilentSpectrum AnalyzerAgilentSpectrum AnalyzerR&STest ReceiverR&SBilog AntennaTESEQ50Ω Coaxial SwitchAnritsuHorn AntennaEMBroadband Horn AntennaSCHWARZBE CKAmplifierEMCAntennaCKPower MeterDARETest Cable (9KHz-30MHz)N/AHigh Test Cable(1G-40G Hz)N/AHigh Test Cable(1G-40G Hz)N/AFilterTRILTHICtemporary antenna connectorNTS	AnalyzerAgilentE4407 BSpectrum AnalyzerAgilentN9020ASpectrum AnalyzerR&SFSV40Test ReceiverR&SESPI7Bilog AntennaTESEQCBL6111D50Ω Coaxial SwitchAnritsuMP59BHorn AntennaEMEM-AH-1018 0Broadband Horn AntennaSCHWARZBE CKBBHA 9170AmplifierEMCEMC051835 SEActive Loop AntennaSCHWARZBE CKFMZB 1519 BPower MeterDARERPR3006WTest Cable (9KHz-30MHz)N/AR-01High Test Cable(1G-40G Hz)N/AR-03High Test Cable(1G-40G Hz)N/AR-04High Test Cable(1G-40G Hz)N/AR-04FilterTRILTHIC2400MHztemporary antenna connectorNTSR001	AnalyzerAgilentE4407BMT45108040Spectrum AnalyzerAgilentN9020AMY49100060Spectrum AnalyzerR&SFSV40101417Test ReceiverR&SESPI7101318Bilog AntennaTESEQCBL6111D3121650Ω Coaxial SwitchAnritsuMP59B6200983705Horn AntennaEMEM-AH-1018 02011071402Broadband Horn AntennaSCHWARZBE CKBBHA 9170803AmplifierEMCEMC051835 SE980246Active Loop AntennaSCHWARZBE CKFMZB 1519 B055Power MeterDARERPR3006W15100041SN O84Test Cable (9KHz-30MHz)N/AR-01N/AHigh Test Cable(1G-40G Hz)N/AR-03N/AHigh Test Cable(1G-40G Hz)N/AR-04N/AFilterTRILTHIC2400MHz29temporary antenna connectorNTSR001N/A	AnalyzerAgilentE4407BMY451080402019.05.13Spectrum AnalyzerAgilentN9020AMY491000602019.08.28Spectrum AnalyzerR&SFSV401014172019.08.28Test ReceiverR&SESPI71013182019.05.13Bilog AntennaTESEQCBL6111D312162019.04.1550Ω Coaxial SwitchAnritsuMP59B62009837052018.05.19Horn AntennaEMEM-AH-1018 02019.04.152019.04.15Broadband Horn AntennaEMEMC051835 SE9802462019.04.15AmplifierEMCEMC051835 SE9802462019.08.04AttennaCKFMZB 1519 B0552018.12.11Power MeterDARERPR3006W15100041SN O8442017.04.21Test Cable (9KHz-30MHz)N/AR-01N/A2017.04.21High Test Cable(1G-40G Hz)N/AR-03N/A2017.04.21High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.21High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.21High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.21High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.21High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.21High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.21High Test Cable(1G-40G Hz)N/AR001 <td>AnalyzerAgilentE4407BM1431080402019.05.132020.05.12Spectrum AnalyzerAgilentN9020AMY491000602019.08.282020.08.27Spectrum AnalyzerR&SFSV401014172019.08.282020.08.27Test ReceiverR&SESPI71013182019.05.132020.05.12Bilog AntennaTESEQCBL6111D312162019.04.152020.04.1450Ω Coaxial SwitchAnritsuMP59B62009837052018.05.192020.05.18Horn AntennaEMEM-AH-1018 020110714022019.04.152020.04.14Broadband Horn AntennaCKEMC051835 S9802462019.08.042020.08.03Active Loop AntennaSCHWARZBE CKFMZB 1519 B0552018.12.112019.12.10Power MeterDARERPR3006W15100041SN O842019.08.042020.04.20WetkIz-30MHz)N/AR-01N/A2017.04.212020.04.20High Test Cable (1G-40G Hz)N/AR-03N/A2017.04.212020.04.20High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.212020.04.20High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.212020.04.20High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.212020.04.20High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.212020.04.20FilterTRILTHIC2400MHz29<td< td=""></td<></td>	AnalyzerAgilentE4407BM1431080402019.05.132020.05.12Spectrum AnalyzerAgilentN9020AMY491000602019.08.282020.08.27Spectrum AnalyzerR&SFSV401014172019.08.282020.08.27Test ReceiverR&SESPI71013182019.05.132020.05.12Bilog AntennaTESEQCBL6111D312162019.04.152020.04.1450Ω Coaxial SwitchAnritsuMP59B62009837052018.05.192020.05.18Horn AntennaEMEM-AH-1018 020110714022019.04.152020.04.14Broadband Horn AntennaCKEMC051835 S9802462019.08.042020.08.03Active Loop AntennaSCHWARZBE CKFMZB 1519 B0552018.12.112019.12.10Power MeterDARERPR3006W15100041SN O842019.08.042020.04.20WetkIz-30MHz)N/AR-01N/A2017.04.212020.04.20High Test Cable (1G-40G Hz)N/AR-03N/A2017.04.212020.04.20High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.212020.04.20High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.212020.04.20High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.212020.04.20High Test Cable(1G-40G Hz)N/AR-04N/A2017.04.212020.04.20FilterTRILTHIC2400MHz29 <td< td=""></td<>

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Note:

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



AC Conduction Test equipment Kind of Calibration Last Calibrated Manufacturer Type No. Serial No. Item Equipment calibration until period Test Receiver R&S ESCI 101160 2019.05.13 2020.05.12 1 1 year 2 LISN R&S **ENV216** 101313 2019.04.15 2020.04.14 1 year SCHWARZBE LISN **NNLK 8129** 3 8129245 2019.05.13 2020.05.12 1 year CK 50Ω Coaxial ANRITSU 4 MP59B 6200983704 2018.05.19 2020.05.18 2 year Switch CORP **Test Cable** 5 (9KHz-30MH N/A C01 N/A 2017.04.21 2020.04.20 3 year Z) Test Cable 6 (9KHz-30MH N/A C02 N/A 2017.04.21 2020.04.20 3 year Z) Test Cable C03 N/A 2017.04.21 2020.04.20 7 (9KHz-30MH N/A 3 year Z)

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.

NTEKJLIM CERTIFICATE #4298.01

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

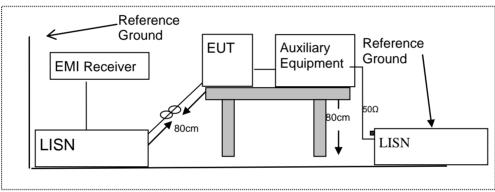
Frequency (MHz)	Conducted	Emission Limit
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency

2. The lower limit shall apply at the transition frequencies

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

7.1.3 Test Configuration



7.1.4 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.

7.1.5 Test Results

Pass



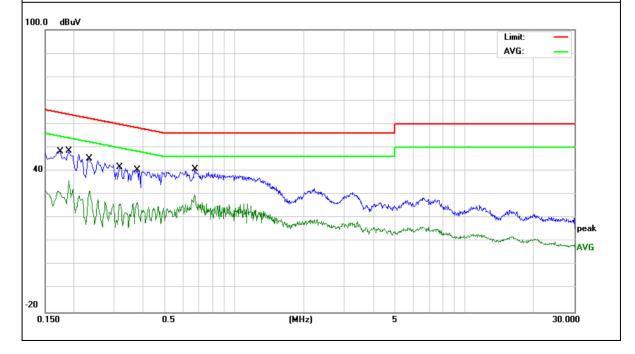
7.1.6 Test Results

EUT:	4G Smart phone	Model Name :	CTIP401
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Demonit
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1737	38.56	9.73	48.29	64.78	-16.49	QP
0.1737	21.71	9.73	31.44	54.78	-23.34	AVG
0.1900	38.97	9.73	48.70	64.03	-15.33	QP
0.1900	26.20	9.73	35.93	54.03	-18.10	AVG
0.2340	35.45	9.74	45.19	62.30	-17.11	QP
0.2340	21.75	9.74	31.49	52.30	-20.81	AVG
0.3180	31.77	9.74	41.51	59.76	-18.25	QP
0.3180	16.41	9.74	26.15	49.76	-23.61	AVG
0.3780	30.59	9.75	40.34	58.32	-17.98	QP
0.3780	16.98	9.75	26.73	48.32	-21.59	AVG
0.6740	30.92	9.75	40.67	56.00	-15.33	QP
0.6740	20.35	9.75	30.10	46.00	-15.90	AVG

Remark:

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





EUT:	4G Smart phone	Model Name :	CTIP401
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Mode 1

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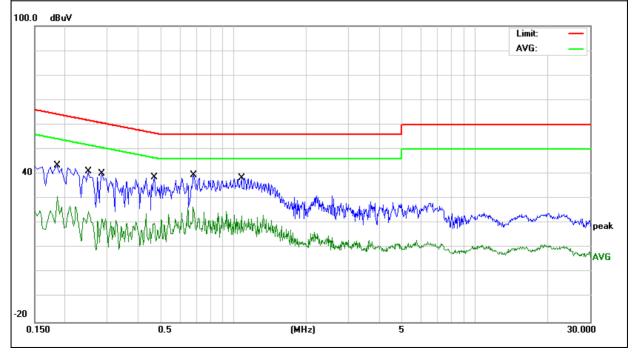
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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1859	34.23	9.22	43.45	64.21	-20.76	QP
0.1859	21.55	9.22	30.77	54.21	-23.44	AVG
0.2500	31.75	9.23	40.98	61.75	-20.77	QP
0.2500	15.58	9.23	24.81	51.75	-26.94	AVG
0.2859	30.85	9.24	40.09	60.64	-20.55	QP
0.2859	12.66	9.24	21.90	50.64	-28.74	AVG
0.4699	29.17	9.34	38.51	56.52	-18.01	QP
0.4699	14.18	9.34	23.52	46.52	-23.00	AVG
0.6860	30.20	9.47	39.67	56.00	-16.33	QP
0.6860	17.17	9.47	26.64	46.00	-19.36	AVG
1.0820	28.89	9.43	38.32	56.00	-17.68	QP
1.0820	13.78	9.43	23.21	46.00	-22.79	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 00 1 alt 13.20	coolding to 1 CO 1 artificado, restincted bands						
MHz	MHz	MHz	GHz				
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46				
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75				
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5				
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
6.26775-6.26825	123-138	2200-2300	14.47-14.5				
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4				
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
12.57675-12.57725	322-335.4	3600-4400	(2)				
13.36-13.41							

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

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

3. For Frequency 9kHz~30MHz:

- Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
- Limit line=Specific limits(dBuV) + distance extrapolation factor.
- For Frequency above 30MHz:

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

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

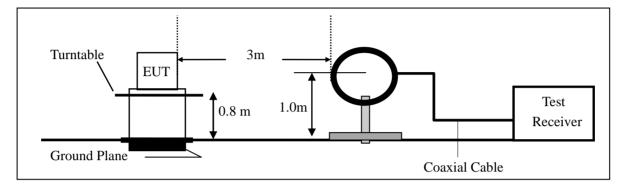


7.2.3 Measuring Instruments

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

7.2.4 Test Configuration

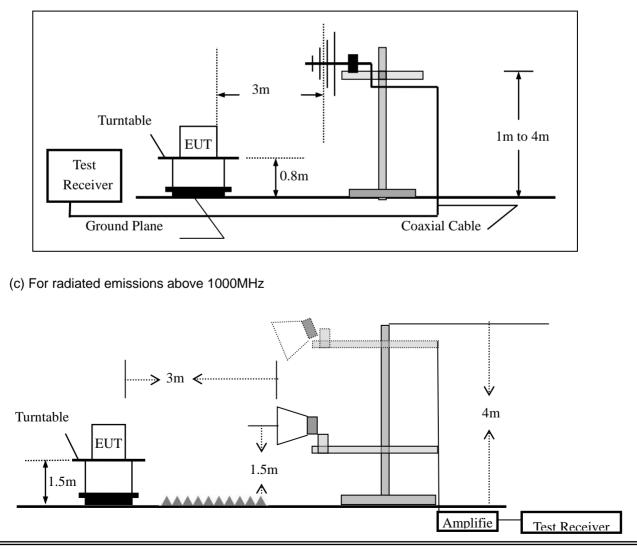
(a) For radiated emissions below 30MHz



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





7.2.5 Test Procedure

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

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz 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 followin	a configurations.
During the radiated enhousen tool, the	speed and range of that the following	g oornigarationo.

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	10 Hz

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:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

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

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

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

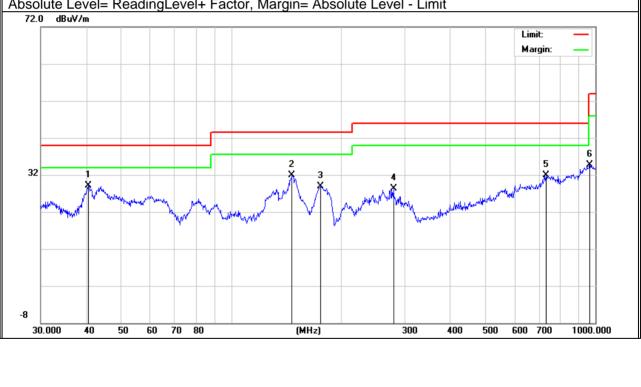
All the modulation modes have been tested, and the worst result was report as below:

EUT:	4G Smart phone	Model Name :	CTIP401
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	DC 3.8V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	40.5591	15.53	13.62	29.15	40.00	-10.85	QP
V	146.8877	19.95	12.03	31.98	43.50	-11.52	QP
V	175.6516	19.15	9.75	28.90	43.50	-14.60	QP
V	279.0436	12.73	15.59	28.32	46.00	-17.68	QP
V	731.9202	7.05	24.86	31.91	46.00	-14.09	QP
V	965.5421	6.48	28.24	34.72	54.00	-19.28	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





Polar	Frequency	,	Meter Reading	Factor	Emissior Level	ו	Limits	N	largin	Remark
(H/V)	(MHz)		(dBuV)	(dB)	(dBuV/m) ((dBuV/m)		(dB)	
Н	147.4036		20.46	11.99	32.45		43.50	-	11.05	QP
Н	279.0436		12.17	15.59	27.76		46.00	-	18.24	QP
Н	383.9318		10.67	17.07	27.74		46.00	-	18.26	QP
Н	631.6884		8.73	22.36	31.09		46.00	-	14.91	QP
Н	729.3582		7.76	24.75	32.51		46.00		13.49	QP
Н	968.9338		7.43	28.27	35.70		54.00	-	18.30	QP
	Level= Read	lingLe	vel+ Fa	ctor, Margin=	= Absolute Le	vel - Li	mit			
									mit: – argin: –	
										f
32	Martin Martin	www.horfy.dv			2 A market with	Mar Luckin	Marthorewood	4 **	5 	6
-8 30.000	40 50 60) 70	80	(MH:	z]	300	400 500	600	700 10	000.000



UT:	Model No.:			CTIP401					
Temperature:	Relative	Humidity	4	8%					
Test Mode: Mode2/ Mode4					Test By:		N	lary Hu	
All the modulat	ion modes	s have be	een testeo	d, and the v	vorst resu	It was rep	ort as b	elow:	
Frequency	Read Level	Cable loss	Antenn a Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµ	(dBµ	(dB)		
		L	ow Chanr	nel (2402 M	Hz)(GFS⊧	K)Above	1G		
4804.68	68.85	5.21	35.59	44.30	65.35	74.00	-8.65	Pk	Vertical
4804.68	43.42	5.21	35.59	44.30	39.92	54.00	-14.08	B AV	Vertical
7206.18	61.45	6.48	36.27	44.60	59.60	74.00	-14.40) Pk	Vertical
7206.18	42.86	6.48	36.27	44.60	41.01	54.00	-12.99) AV	Vertical
4804.22	64.19	5.21	35.55	44.30	60.65	74.00	-13.35	5 Pk	Horizontal
4804.22	43.04	5.21	35.55	44.30	39.50	54.00	-14.50) AV	Horizontal
7206.05	60.60	6.48	36.27	44.52	58.83	74.00	-15.17	' Pk	Horizontal
7206.05	40.16	6.48	36.27	44.52	38.39	54.00	-15.61	AV	Horizontal
		Ν	/lid Chann	el (2441 M	Hz)(GFSK	()Above	1G		
4882.34	65.73	5.21	35.66	44.20	62.40	74.00	-11.60) Pk	Vertical
4882.34	43.40	5.21	35.66	44.20	40.07	54.00	-13.93	B AV	Vertical
7323.27	64.56	7.10	36.50	44.43	63.73	74.00	-10.27	' Pk	Vertical
7323.27	43.45	7.10	36.50	44.43	42.62	54.00	-11.38	B AV	Vertical
4882.30	64.36	5.21	35.66	44.20	61.03	74.00	-12.97	' Pk	Horizontal
4882.30	41.09	5.21	35.66	44.20	37.76	54.00	-16.24	AV	Horizontal
7324.77	60.13	7.10	36.50	44.43	59.30	74.00	-14.70) Pk	Horizontal
7324.77	41.36	7.10	36.50	44.43	40.53	54.00	-13.47	Y AV	Horizontal
		H	igh Chanr	nel (2480 M	Hz)(GFSk	() Above	1G		
4959.66	64.04	5.21	35.52	44.21	60.56	74.00	-13.44	l Pk	Vertical
4959.66	43.99	5.21	35.52	44.21	40.51	54.00	-13.49) AV	Vertical
7439.64	61.90	7.10	36.53	44.60	60.93	74.00	-13.07	' Pk	Vertical
7439.64	43.76	7.10	36.53	44.60	42.79	54.00	-11.21	AV	Vertical
4960.22	60.10	5.21	35.52	44.21	56.62	74.00	-17.38	B Pk	Horizontal
4960.22	43.98	5.21	35.52	44.21	40.50	54.00	-13.50) AV	Horizontal
7440.62	63.86	7.10	36.53	44.60	62.89	74.00	-11.11	Pk	Horizontal
7440.62	42.39	7.10	36.53	44.60	41.42	54.00	-12.58	B AV	Horizontal

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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 Restricted Band 2310-2390MHz and 2483.5-2500MHzs

EUT:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

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

Frequenc	Meter	Cable	Antenna	Preamp	Emission	Limits	Margin	Detector	
у	Reading	Loss	Factor	Factor	Level			Bottoottoi	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)		(dB)	Туре	
			1M	ops(GFSK)	- Non-hopp	bing			
2310.00	54.96	2.97	27.80	43.80	41.93	74	-32.07	Pk	Horizontal
2310.00	40.47	2.97	27.80	43.80	27.44	54	-26.56	AV	Horizontal
2310.00	51.68	2.97	27.80	43.80	38.65	74	-35.35	Pk	Vertical
2310.00	40.60	2.97	27.80	43.80	27.57	54	-26.43	AV	Vertical
2390.00	54.73	3.14	27.21	43.80	41.28	74	-32.72	Pk	Vertical
2390.00	42.28	3.14	27.21	43.80	28.83	54	-25.17	AV	Vertical
2390.00	50.54	3.14	27.21	43.80	37.09	74	-36.91	Pk	Horizontal
2390.00	42.34	3.14	27.21	43.80	28.89	54	-25.11	AV	Horizontal
2483.50	54.13	3.58	27.70	44.00	41.41	74	-32.59	Pk	Vertical
2483.50	41.98	3.58	27.70	44.00	29.26	54	-24.74	AV	Vertical
2483.50	51.89	3.58	27.70	44.00	39.17	74	-34.83	Pk	Horizontal
2483.50	41.51	3.58	27.70	44.00	28.79	54	-25.21	AV	Horizontal
			1	Mbps (GFS	SK)- hoppin	g			
2310.00	53.89	2.97	27.80	43.80	40.86	74	-33.14	Pk	Horizontal
2310.00	41.85	2.97	27.80	43.80	28.82	54	-25.18	AV	Horizontal
2310.00	55.00	2.97	27.80	43.80	41.97	74	-32.03	Pk	Vertical
2310.00	40.98	2.97	27.80	43.80	27.95	54	-26.05	AV	Vertical
2390.00	54.47	3.14	27.21	43.80	41.02	74	-32.98	Pk	Vertical
2390.00	42.76	3.14	27.21	43.80	29.31	54	-24.69	AV	Vertical
2390.00	54.62	3.14	27.21	43.80	41.17	74	-32.83	Pk	Horizontal
2390.00	42.64	3.14	27.21	43.80	29.19	54	-24.81	AV	Horizontal
2483.50	54.55	3.58	27.70	44.00	41.83	74	-32.17	Pk	Vertical
2483.50	43.61	3.58	27.70	44.00	30.89	54	-23.11	AV	Vertical
2483.50	51.07	3.58	27.70	44.00	38.35	74	-35.65	Pk	Horizontal
2483.50	40.54	3.58	27.70	44.00	27.82	54	-26.18	AV	Horizontal

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



Spurious Emission in Restricted Band 3260MHz-18000MHz

EUT:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/ Mode4	Test By:	Mary Hu

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

Frequenc	Readin	Cable	Antenn	Preamp	Emission	Limits	Margin	Detect	
У	g Level	Loss	а	Factor	Level	Linits	margin	or	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµ V/m)	(dBµ V/m)	(dB)	Туре	Comment
3260	62.87	4.04	29.57	44.70	51.78	74	-22.22	Pk	Vertical
3260	48.02	4.04	29.57	44.70	36.93	54	-17.07	AV	Vertical
3260	57.30	4.04	29.57	44.70	46.21	74	-27.79	Pk	Horizontal
3260	46.24	4.04	29.57	44.70	35.15	54	-18.85	AV	Horizontal
3332	62.99	4.26	29.87	44.40	52.72	74	-21.28	Pk	Vertical
3332	44.90	4.26	29.87	44.40	34.63	54	-19.37	AV	Vertical
3332	64.72	4.26	29.87	44.40	54.45	74	-19.55	Pk	Horizontal
3332	46.79	4.26	29.87	44.40	36.52	54	-17.48	AV	Horizontal
17797	51.61	10.99	43.95	43.50	63.05	74	-10.95	Pk	Vertical
17797	34.45	10.99	43.95	43.50	45.89	54	-8.11	AV	Vertical
17788	52.39	11.81	43.69	44.60	63.29	74	-10.71	Pk	Horizontal
17788	36.81	11.81	43.69	44.60	47.71	54	-6.29	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 ≥ RBW

Sweep = auto

Detector function = peak Trace = max hold

7.3.6 Test Results

EUT:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode 5(1Mbps)	Test By:	Mary Hu



7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

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

7.4.2 Conformance Limit

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

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

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

7.4.6 Test Results

EUT:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



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:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu

Test data reference attachment.

Note:

A Period Time = (channel number)*0.4 DH1 Dwell time: Reading * (1600/2)*31.6/(channel number) DH3 Dwell time: Reading * (1600/4)*31.6/(channel number) DH5 Dwell time: Reading * (1600/6)*31.6/(channel number)

For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4×20) (s), Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

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

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

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

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

7.6.6 Test Results

EUT:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

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

7.7.2 Conformance Limit

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

7.7.3 Measuring Instruments

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

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

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

Sweep = auto

Detector function = peak Trace = max hold

7.7.6 Test Results

EUT:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	Mode2/Mode3/Mode4	Test By:	Mary Hu



7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

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

7.8.2 Conformance Limit

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

7.8.3 Measuring Instruments

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

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

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

Repeat above procedures until all measured frequencies were complete.

7.8.6 Test Results

EUT:	4G Smart phone	Model No.:	CTIP401
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode2 /Mode4/ Mode 5	Test By:	Mary Hu



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)).

Certificate #4298 01

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 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.



7.10 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 partyshall be used with the device.

ACCREDIT

7.10.2 Result

The EUT antenna is permanent attached FPC Antenna (Gain: 1dBi). It comply with the standard requirement.

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

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

Certificate #4298 01

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.

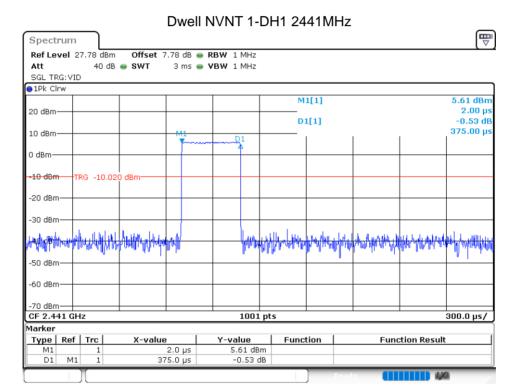
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.



8 TEST RESULTS

8.1 DWELL TIME

Condition	Mode	Frequency	Pulse Time	Total Dwell	Period Time	Limit	Verdict
		(MHz)	(ms)	Time (ms)	(ms)	(ms)	
NVNT	1-DH1	2441	0.375	120	31600	400	Pass
NVNT	1-DH3	2441	1.63	260.8	31600	400	Pass
NVNT	1-DH5	2441	2.88	307.2	31600	400	Pass
NVNT	2-DH1	2441	0.376	120.32	31600	400	Pass
NVNT	2-DH3	2441	1.63	260.8	31600	400	Pass
NVNT	2-DH5	2441	2.872	306.347	31600	400	Pass
NVNT	3-DH1	2441	0.381	121.92	31600	400	Pass
NVNT	3-DH3	2441	1.625	260	31600	400	Pass
NVNT	3-DH5	2441	2.872	306.347	31600	400	Pass



Dwell NVNT 1-DH3 2441MHz



Report No.: S19082902506001

⊖1Pk Clrw	: VID /		1						
20 dBm—	_					11[1]			-3.13 dBm 5.00 μs
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-50 dBm—									
-60 dBm—					1				
-70 dBm- CF 2.441	GHz	<u> </u>		100)1 pts	<u> </u>		<u> </u>	500.0 μs/
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			1.03 IIIS	0.15	ub	Rea	dy 💼		0
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Att SGL TRG 1Pk Clrw	40 dB :VID				Z	11[1]			
Att SGL TRG 1Pk Cirw 20 dBm—	40 dB :VID		8 ms 🖷	VBW 1 MH:	Z M D				8.00 μs 0.23 dB
Att SGL TRG 1Pk Clrw 20 dBm- 10 dBm-	40 dB :VID /	• SWT	8 ms 🖷	VBW 1 MH:	Z M D				8.00 μs 0.23 dB
Att SGL TRG 1Pk Clrw 20 dBm- 10 dBm- 0 dBm-	40 dB : VID /	• SWT	8 ms 🖷	VBW 1 MH:	Z M D				8.00 μs 0.23 dB
Att SGL TRG 1Pk Clrw 20 dBm- 10 dBm- 0 dBm- -10 dBm	40 dB : VID /	• SWT	8 ms 🖷	vBW 1 MHz	2 M D	1[1]			8.00 µs 0.23 dB 2.88000 ms
Att SGL TRG 1Pk Clrw 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm-	40 dB :VID / / // /////////////////////////////	• SWT	8 ms 🖷	vBW 1 MHz	2 M D	1[1]			8.00 μs 0.23 dB
Att SGL TRG 1Pk Clrw 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm-	40 dB :VID / / // /////////////////////////////	• SWT	8 ms 🖷	vBW 1 MHz	2 M D	1[1]	յուղությունը		8.00 µs 0.23 dB 2.88000 ms
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Att SGL TRG ● 1Pk CIrw 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -60 dBm- <u>-70 dBm-</u> CF 2.441 Marker Type F M1	40 dB VID / / TRG -10.02 COLUMN	• SWT	8 ms •	VBW 1 MH2	2 M D 1 1 1 1 1 1 1 1 1 1 1 1 1	1[1]		Analangi de Deser	8.00 μs 0.23 dB 2.88000 ms
Att SGL TRG ● 1Pk CIrw 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -60 dBm- -70 dBm- CF 2.441 Marker Type F M1	40 dB VID / / / / / / / / / / / / /	• SWT	8 ms	VBW 1 MH2	2 M D D D D D D D D D D D D D D D D D D	1[1]	Fun dy	Analangi de Deser	8.00 μs 0.23 dB 2.88000 ms
Att SGL TRG PIPK CIrw 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -60 dBm- -70 dBm- Type F Marker	40 dB VID / / / / / / / / / / / / /	• SWT	8 ms	VBW 1 MH2	2 M D D D D D D D D D D D D D D D D D D	1[1]	Fun dy	Analangi de Deser	8.00 μs 0.23 dB 2.88000 ms
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Att SGL TRG PIPK CIrw 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -60 dBm- -70 dBm- Type F Marker	40 dB VID / / / / / / / / / / / / /	• SWT	8 ms	VBW 1 MH2	2 M D D D D D D D D D D D D D D D D D D	1[1]	Fun dy	Analangi de Deser	8.00 μs 0.23 dB 2.88000 ms



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20 dBm			M1[1]		-4.50 dBm 5.00 μs -2.53 dB
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Ref Level 27 Att SGL TRG: VID 1Pk Clrw			7.78 dB 3 ms	e RBW	1 MHz	M		z		4.81 dBm
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Ref Level 27 Att SGL TRG: VID SGL TRG: VID 1Pk Cirw 20 dBm 10 dBm 10 dBm 0 dBm -10 dBm -10 dBm -20 dBm TR -30 dBm -30 dBm	40 dB (dBm	7.78 dB 3 ms	RBW VBW	1 MHz 1 MHz	M	1[1]		Drugter in	4.81 dBm 5.00 μs -2.58 dB 381.00 μs
Ref Level 27 Att SGL TRG: VID SGL TRG: VID 1Pk Cirw 20 dBm 10 10 dBm 0 -10 dBm - -20 dBm TR -30 dBm - -50 dBm - -60 dBm -	40 dB (dBm	7.78 dB 3 ms	RBW VBW	1 MHz 1 MHz	M D	1[1]		l Inverting for the second sec	4.81 dBm 5.00 μs -2.58 dB 381.00 μs
Ref Level 27 Att SGL TRG:VID ● 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz	40 dB	dBm	7.78 dB 3 ms	RBW VBW	1 MHz 1 MHz 1 MHz 1 001	D D D D D D D D D D D D D D D D D D D	1[1] 1[1]		Vr 	4.81 dBm 5.00 µs -2.58 dB 381.00 µs
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Ref Level 27 Att SGL TRG: VID 9 1Pk Clrw 20 dBm 10 dBm 0 10 dBm 0 -10 dBm - -20 dBm TR -30 dBm - -50 dBm - -60 dBm - -70 dBm - -70 dBm - Type Ref M1 Marker	40 dB (dBm	7.78 dB 3 ms	RBW VBW V	1 MHz 1 MHz 1 MHz 1 MHz 1 00: 4.81 dt -2.58	M D D D D D D D D D D D D D D D D D D D	1[1] 1[1] 1[1]	Fun	Vr 	4.81 dBm 5.00 µs -2.58 dB 381.00 µs
Ref Level 27 Att SGL TRG: VID 9 1Pk Clrw 20 dBm 10 dBm 0 10 dBm 0 -10 dBm - -20 dBm TR -30 dBm - -50 dBm - -60 dBm - -70 dBm - -70 dBm - Type Ref M1 Marker	40 dB (dBm	7.78 dB 3 ms	RBW VBW V	1 MHz 1 MHz 1 MHz 1 MHz 1 00: 4.81 dt -2.58	I pts	1[1] 1[1] 1[1]	Fun	Vr 	4.81 dBm 5.00 µs -2.58 dB 381.00 µs
Ref Level 27 Att SGL TRG: VID 9 1Pk Clrw 20 dBm 10 dBm 0 10 dBm 0 -10 dBm - -20 dBm TR -30 dBm - -50 dBm - -60 dBm - -70 dBm - -70 dBm - Type Ref M1 Marker	40 dB (dBm	7.78 dB 3 ms	RBW VBW V	1 MHz 1 MHz 1 MHz 1 MHz 1 00: 4.81 dt -2.58	I pts	1[1] 1[1] 1[1]	Fun	Vr 	4.81 dBm 5.00 µs -2.58 dB 381.00 µs



⊜1Pk Clrw									0.01.10
20 dBm					M	1[1]			-3.81 dBm 5.00 µs
					D	1[1]			-2.83 dB
10 dBm									1.02000 ms
0 dBm	M	1 modulaikkeudisku	ana ina na sa	นปละเป็นในกลาย	a l/01 1				
-10 dBm TR	G -10.020		anoh DOb	10 . 11 the second second					
-20 dBm									
-30 dBm									
Howeby	<u>Unididad</u>						handrade	Level Indeling	March When we
1.10	. 1 v. 00v.01				., , , , , , , , , , , , , , , , , , ,	a. a aha		1941 01 02 1 41 w	1.1. M. 1.
-50 dBm									
-60 dBm									
-70 dBm									
CF 2.441 GH	z			1001	pts				500.0 μs/
Marker Type Ref	Trc	X-value	. 1	Y-value	Func	tion	Fund	tion Result	: 1
M1	1		5.0 µs	-3.81 dB					
D1 M1	1		5.0 µs 525 ms	-3.81 dB -2.83 c					
D1 M1 Spectrum Ref Level 27	1	1.6 Offset 7	Dwell N 7.78 dB • F	-2.83 c	IB) Pow	V		
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID	1	1.6	Dwell N 7.78 dB • F	-2.83 c	IB) Period	· •		
D1 M1 Spectrum Ref Level 27 Att	1	1.6 Offset 7	Dwell N 7.78 dB • F	-2.83 c	DH5 24		•		
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID	1	1.6 Offset 7	Dwell N 7.78 dB • F	-2.83 c	DH5 24	1[1]	M ()		-3.81 dBm 8.00 μs
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID O 1Pk Clrw	1	1.6 Offset 7	Dwell N 7.78 dB • F	-2.83 c	DH5 24		· •		-3.81 dBm
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 9 1Pk Clrw 20 dBm 10 dBm	1	1.6 Offset 7	Dwell N 7.78 dB • F	-2.83 c	DH5 24	1[1]			-3.81 dBm 8.00 µs -0.53 dB
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm 0 dBm	1 7.78 dBm 40 dB	Offset 7 SWT	Dwell N 7.78 dB • F	-2.83 c	DH5 24	1[1]			-3.81 dBm 8.00 µs -0.53 dB
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 9 1Pk Clrw 20 dBm 10 dBm	1 7.78 dBm 40 dB	Offset 7 SWT	Dwell N	-2.83 c	DH5 24	1[1]			-3.81 dBm 8.00 µs -0.53 dB
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm -10 dBm	1 7.78 dBm 40 dB	0ffset 7 ● SWT	Dwell N	-2.83 c	DH5 24	1[1]			-3.81 dBm 8.00 µs -0.53 dB
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm -10 dBm	1 7.78 dBm 40 dB 4	0ffset 7 ● SWT	Dwell N	-2.83 c	DH5 24	1[1]			-3.81 dBm 8.00 µs -0.53 dB
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm -10 dBm -20 dBm TR -30 dBm	1 7.78 dBm 40 dB 4	0ffset 7 ● SWT	Dwell N	-2.83 c	DH5 24	1[1] 1[1]	1	inthorrouthede de	-3.81 dBm 8.00 µs -0.53 dB
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm -10 dBm -20 dBm TR	1 7.78 dBm 40 dB 4	0ffset 7 ● SWT	Dwell N	-2.83 c	DH5 24	1[1]	1		-3.81 dBm 8.00 µs -0.53 dB 2.87200 ms
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm TR -30 dBm -50 dBm -50 dBm	1 7.78 dBm 40 dB 4	0ffset 7 ● SWT	Dwell N	-2.83 c	DH5 24	1[1] 1[1]	1	inthorrouthede de	-3.81 dBm 8.00 µs -0.53 dB 2.87200 ms
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 10 dBm 10 dBm 10 dBm -10 dBm -30 dBm -30 dBm -50 dBm -60 dBm	1 7.78 dBm 40 dB 4	0ffset 7 ● SWT	Dwell N	-2.83 c	DH5 24	1[1] 1[1]	1	inthorrouthede de	-3.81 dBm 8.00 µs -0.53 dB 2.87200 ms
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm TR -30 dBm -50 dBm -50 dBm	1 7.78 dBm 40 dB 40 dB	0ffset 7 ● SWT	Dwell N	-2.83 c	в DH5 24	1[1] 1[1]	1	իսնվուլյումերիսյեւ	-3.81 dBm 8.00 µs -0.53 dB 2.87200 ms
D1 M1 Ref Level 27 Att SGL TRG: VID P1Pk Clrw 20 dBm 10 dBm 10 dBm P10 dBm -10 dBm P10 dBm -30 dBm P10 dBm -50 dBm F -60 dBm CF 2.441 GH	1 7.78 dBm 40 dB 41 71/01/4*/y	I.€ Offset 7 ■ SWT	255 ms	-2.83 c	BH5 24	1[1] 1[1]	Inflation of the second	իովերյաներերե	-3.81 dBm 8.00 µs -0.53 dB 2.87200 ms
D1 M1 Spectrum Ref Level 27 Att SGL TRG: VID 1Pk Clrw 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70	1 7.78 dBm 40 dB 41 71/01/4*/y	1.6 Offset 7 SWT	255 ms	-2.83 c	B DH5 24 D: D: D: D: D: D: D: D: D: D: D: D: D:	1[1] 1[1]	Inflation of the second	իսնվուլյումերիսյեւ	-3.81 dBm 8.00 µs -0.53 dB 2.87200 ms

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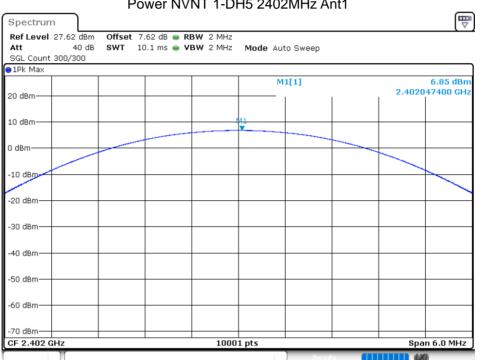
8.2 MAXIMUM CONDUCTED OUTPUT POWER

ilac-M

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
Condition			Antenna		· · /	
NVNT	1-DH5	2402	Ant 1	6.85	30	Pass
NVNT	1-DH5	2441	Ant 1	5.49	30	Pass
NVNT	1-DH5	2480	Ant 1	6.12	30	Pass
NVNT	2-DH5	2402	Ant 1	5.67	20.97	Pass
NVNT	2-DH5	2441	Ant 1	5.04	20.97	Pass
NVNT	2-DH5	2480	Ant 1	6.36	20.97	Pass
NVNT	3-DH5	2402	Ant 1	5.59	20.97	Pass
Condition NVNT NVNT NVNT NVNT NVNT NVNT NVNT NVN	3-DH5	2441	Ant 1	4.93	20.97	Pass
NVNT	3-DH5	2480	Ant 1	6.69	20.97	Pass

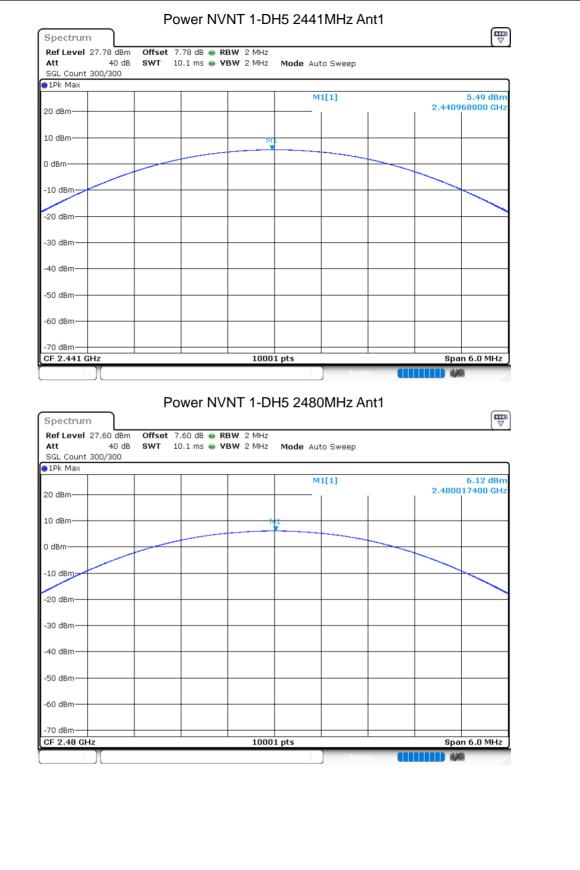
ACCREDITED

Certificate #4298.01

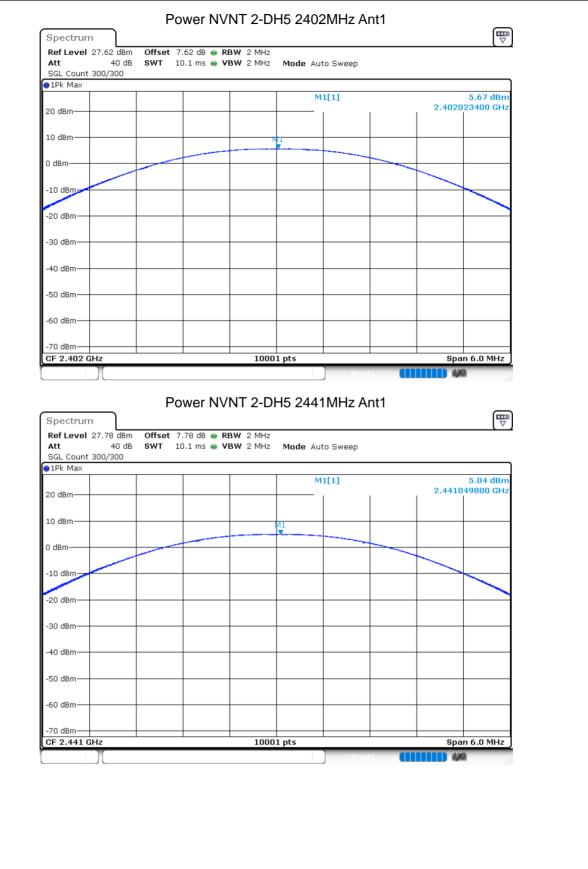


Power NVNT 1-DH5 2402MHz Ant1





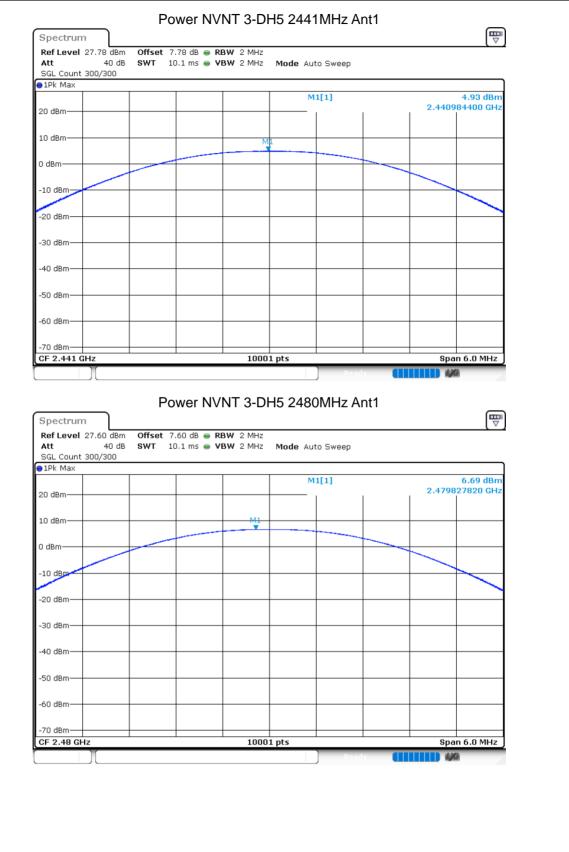














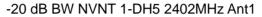
8.3 OCCUPIED CHANNEL BANDWIDTH

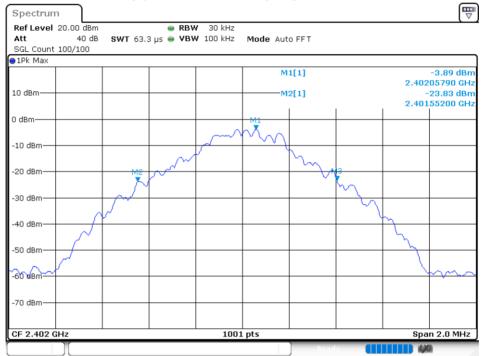
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant 1	0.852	Pass
NVNT	1-DH5	2441	Ant 1	0.86	Pass
NVNT	1-DH5	2480	Ant 1	0.858	Pass
NVNT	2-DH5	2402	Ant 1	1.286	Pass
NVNT	2-DH5	2441	Ant 1	1.246	Pass
NVNT	2-DH5	2480	Ant 1	1.268	Pass
NVNT	3-DH5	2402	Ant 1	1.252	Pass
NVNT	3-DH5	2441	Ant 1	1.26	Pass
NVNT	3-DH5	2480	Ant 1	1.28	Pass

ACCREDITED

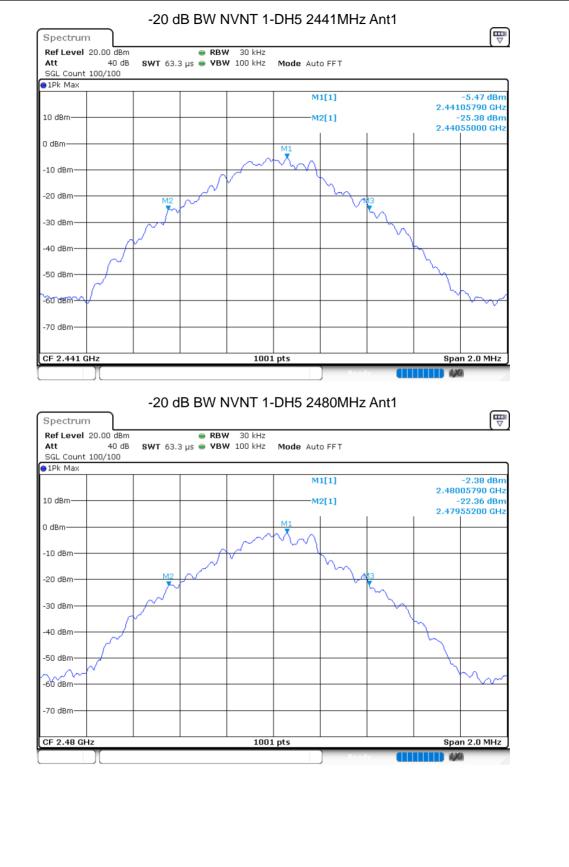
Certificate #4298.01

ilac-MR





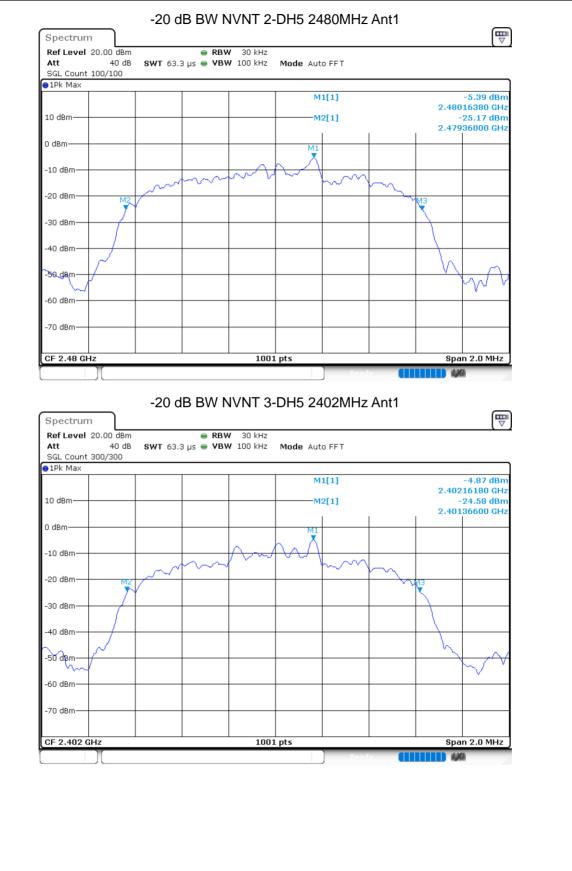




















8.4 CARRIER FREQUENCIES SEPARATION

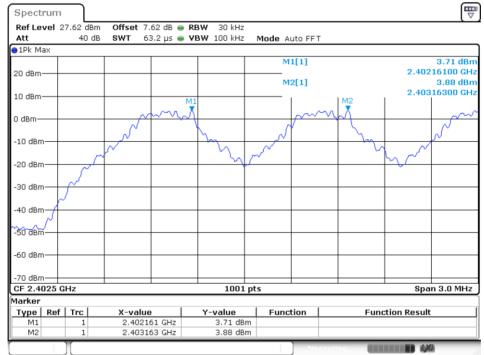
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Condition	Mode	Hopping Freq1	Hopping Freq2	HFS	Limit	Verdict
		(MHz)	(MHz)	(MHz)	(MHz)	
NVNT	1-DH5	2402.161	2403.163	1.002	0.852	Pass
NVNT	1-DH5	2441.161	2442.163	1.002	0.86	Pass
NVNT	1-DH5	2479.161	2480.163	1.002	0.858	Pass
NVNT	2-DH5	2402.014	2403.013	0.999	0.857	Pass
NVNT	2-DH5	2441.164	2442.166	1.002	0.845	Pass
NVNT	2-DH5	2479.164	2480.163	0.999	0.845	Pass
NVNT	3-DH5	2402.161	2403.163	1.002	0.835	Pass
NVNT	3-DH5	2441.161	2442.163	1.002	0.84	Pass
NVNT	3-DH5	2479.161	2480.163	1.002	0.853	Pass

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Certificate #4298.01

CFS NVNT 1-DH5 2402MHz

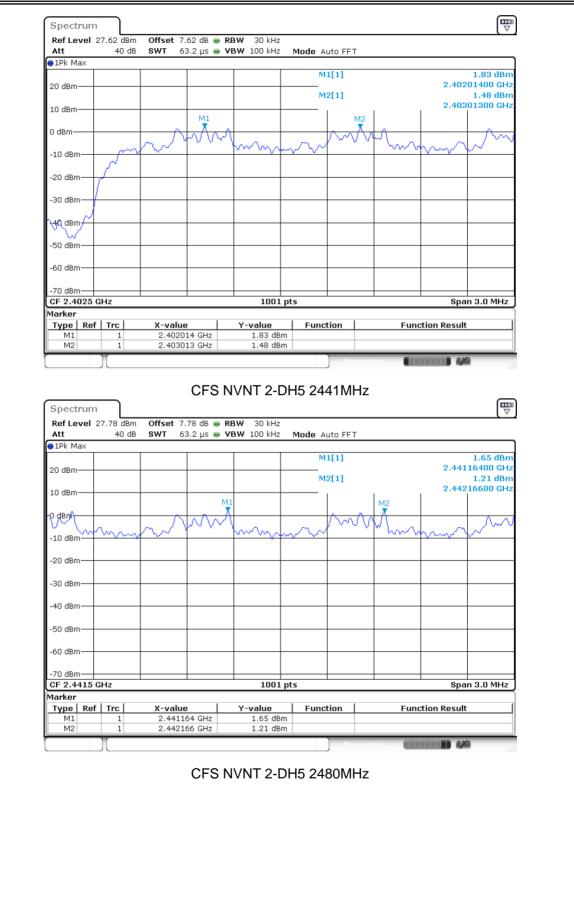


CFS NVNT 1-DH5 2441MHz





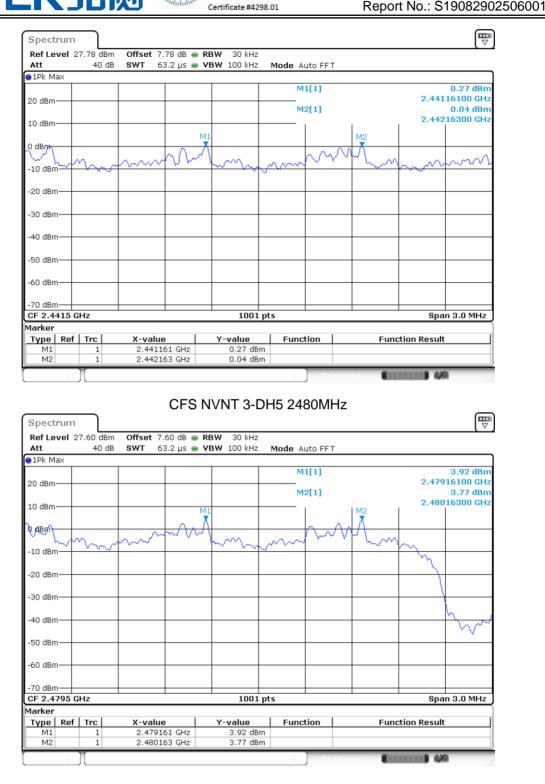








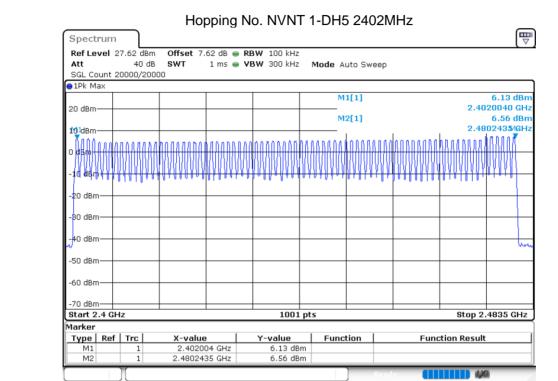






8.5 NUMBER OF HOPPING CHANNEL

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	Hopping Number 79	15	Pass



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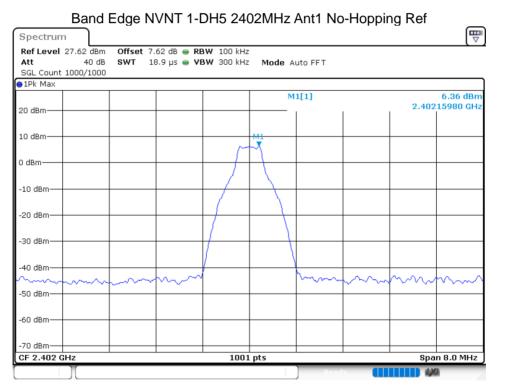
Certificate #4298.01



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8.6 BAND EDGE

EDGE						
Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
	(MHz)		Mode	(dBc)	(dBc)	
1-DH5	2402	Ant 1	No-Hopping	-47.61	-20	Pass
1-DH5	2402	Ant 1	Hopping	-47.15	-20	Pass
1-DH5	2480	Ant 1	No-Hopping	-50.71	-20	Pass
1-DH5	2480	Ant 1	Hopping	-50.04	-20	Pass
2-DH5	2402	Ant 1	No-Hopping	-46.68	-20	Pass
2-DH5	2402	Ant 1	Hopping	-45.69	-20	Pass
2-DH5	2480	Ant 1	No-Hopping	-48.63	-20	Pass
2-DH5	2480	Ant 1	Hopping	-47.81	-20	Pass
3-DH5	2402	Ant 1	No-Hopping	-46.68	-20	Pass
3-DH5	2402	Ant 1	Hopping	-44.69	-20	Pass
3-DH5	2480	Ant 1	No-Hopping	-48.46	-20	Pass
3-DH5	2480	Ant 1	Hopping	-49.22	-20	Pass
	Mode 1-DH5 1-DH5 1-DH5 2-DH5 2-DH5 2-DH5 3-DH5 3-DH5 3-DH5	Mode Frequency (MHz) 1-DH5 2402 1-DH5 2402 1-DH5 2480 1-DH5 2480 2-DH5 2402 2-DH5 2402 2-DH5 2402 2-DH5 2402 3-DH5 2402 3-DH5 2402 3-DH5 2480	Mode Frequency (MHz) Antenna 1-DH5 2402 Ant 1 1-DH5 2402 Ant 1 1-DH5 2402 Ant 1 1-DH5 2480 Ant 1 1-DH5 2480 Ant 1 1-DH5 2480 Ant 1 2-DH5 2402 Ant 1 2-DH5 2402 Ant 1 2-DH5 2480 Ant 1 2-DH5 2480 Ant 1 3-DH5 2402 Ant 1 3-DH5 2402 Ant 1 3-DH5 2402 Ant 1 3-DH5 2402 Ant 1	ModeFrequency (MHz)AntennaHopping Mode1-DH52402Ant 1No-Hopping1-DH52402Ant 1Hopping1-DH52402Ant 1Hopping1-DH52480Ant 1No-Hopping2-DH52402Ant 1Hopping2-DH52402Ant 1Hopping2-DH52402Ant 1Hopping2-DH52402Ant 1Hopping2-DH52480Ant 1Hopping3-DH52402Ant 1Hopping3-DH52402Ant 1Hopping3-DH52480Ant 1Hopping3-DH52480Ant 1Hopping	Mode Frequency (MHz) Antenna Hopping Mode Max Value (dBc) 1-DH5 2402 Ant 1 No-Hopping -47.61 1-DH5 2402 Ant 1 Hopping -47.61 1-DH5 2402 Ant 1 Hopping -47.15 1-DH5 2480 Ant 1 No-Hopping -50.71 1-DH5 2480 Ant 1 Hopping -50.04 2-DH5 2402 Ant 1 No-Hopping -46.68 2-DH5 2402 Ant 1 Hopping -45.69 2-DH5 2402 Ant 1 Hopping -46.68 2-DH5 2480 Ant 1 No-Hopping -48.63 2-DH5 2480 Ant 1 No-Hopping -48.63 2-DH5 2480 Ant 1 No-Hopping -46.68 3-DH5 2402 Ant 1 No-Hopping -46.68 3-DH5 2402 Ant 1 Hopping -44.69 3-DH5 2480 Ant 1 No-H	Mode Frequency (MHz) Antenna Hopping Mode Max Value (dBc) Limit (dBc) 1-DH5 2402 Ant 1 No-Hopping -47.61 -20 1-DH5 2402 Ant 1 Hopping -47.61 -20 1-DH5 2402 Ant 1 Hopping -47.15 -20 1-DH5 2480 Ant 1 No-Hopping -50.71 -20 1-DH5 2480 Ant 1 Hopping -50.04 -20 2-DH5 2402 Ant 1 No-Hopping -46.68 -20 2-DH5 2402 Ant 1 No-Hopping -46.68 -20 2-DH5 2402 Ant 1 No-Hopping -46.68 -20 2-DH5 2480 Ant 1 No-Hopping -48.63 -20 2-DH5 2480 Ant 1 No-Hopping -46.68 -20 3-DH5 2402 Ant 1 No-Hopping -46.68 -20 3-DH5 2402 Ant 1 No-Hopping



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



SGL Count 100/100 9 1Pk Max								c oc 15
20 dBm					1[1]		2.40	6.06 dBm 205000 GHz
10 dBm				M:	2[1]		2.40	-47.90 dBm 000000048Hz
0 dBm								
-10 dBm-D1 -13.6	35 dBm							
-20 dBm								
-30 dBm								
-40 dBm	(กกละ (คงการเหลง (คงการเปล่าง)	L. 6 N. W. W. W.	M4	on a nhai	nta at ab	h. h. to a she to b	МЗ	when we have
-50 dBm	allindaa aa andaa andaa anda an	, , , , , , , , , , , , , , , , , , ,	10 - 40 U	n althersternas das	and welling and	and and the second s	ann an the second of the second s	
-60 dBm								
-70 dBm Start 2.306 GHz			1001	pts			Sto	2.406 GHz
Marker		1						
Type Ref Trc	X-value 2.4020	5 GHz	Y-value 6.06 dBr			Fun	ction Resu	ilt
M2 1 M3 1	2.3	4 GHz 9 GHz	-47.90 dBr -46.23 dBr	m				
M4 1	2.349	8 GHz	-41.25 dBr	m	<u> </u>			
Spectrum Ref Level 27.62 dt Att 40 5GL Count 2000/20	dB SWT 18	52 dB 👄 RB				ant1 Ho	pping I	Ref
Spectrum Ref Level 27.62 dt Att 40	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au		ant1 Ho		€.06 dBm
Spectrum Ref Level 27.62 dt Att 40 SGL Count 2000/20	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT	nt1 Ho		♥
Spectrum Ref Level 27.62 dł Att 40 SGL Count 2000/20 9 1Pk Max	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT	ant1 Ho		€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dt Att 40 SGL Count 2000/20 PIPk Max 20 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT	Ant1 Ho	2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dt Att 40 SGL Count 2000/20 ●1Pk Max 20 dBm 10 dBm 0 dBm 0 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dt Att 40 SGL Count 2000/20 ●1Pk Max 20 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dt Att 40 SGL Count 2000/20 ●1Pk Max 20 dBm 10 dBm 0 dBm 0 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dt Att 40 SGL Count 2000/20 ● 1Pk Max 20 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dt Att 40 SGL Count 2000/20 IN Max 20 dBm 10 dBm -10 dBm -20 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dl Att 40 SGL Count 200/20 • IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dl Att 40 SGL Count 200/20 • IPk Max 20 dBm 10 dBm 10 dBm -0 dBm -10 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dl Att 40 SGL Count 200/20 • IPk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz	Mode Au	uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dk Att 40 SGL Count 2000/20 ● 1Pk Max 20 dBm 0 10 dBm 0 -10 dBm -0 -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz		uto FFT		2.4(6.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dl Att 40 SGL Count 2000/20 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	om Offset 7.6 dB SWT 18	52 dB 👄 RB	W 100 kHz		uto FFT		2.4(€.06 dBm 0504500 GHz
Spectrum Ref Level 27.62 dk Att 40 SGL Count 2000/20 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -70 dBm	Sm Offset 7.6 dB SWT 18 00	2 dB • RB	W 100 kHz	Mode Au	uto FFT		2.4(6.06 dBm 1504500 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1
Spectrum Ref Level 27.62 dk Att 40 SGL Count 2000/20 ● 1Pk Max 20 dBm 0 10 dBm 0 -10 dBm -0 -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	Sm Offset 7.6 dB SWT 18 00	2 dB • RB	W 100 kHz	Mode Au	uto FFT		2.4(6.06 dBm 1504500 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1



Ref Level 2	7.62 dBm	Offset 7	.62 dB 👄 R	BW 100 kH	Iz				(``)
Att	40 dB				z Mode	Auto FFT			
SGL Count 1	000/1000								
1Pk Max									
					M	1[1]			5.68 dBm
20 dBm						0[1]			295000 GHz
LO dBm					M	2[1]			-43.00 dBm 000000 ^N GHz
						I	1	∠.400	1111
) dBm									
									I NUM
10 dBm	1 -13.937	dBm							
20 dBm	1 -10.907								0
LU UDIII									
-30 dBm									┼──┤
10.10			M4						M2
40 dBm	marked a set	and the and the	mapound	m her Hunner	date damak -	alon Brank	uluhan	MB	In the second
50 dBm	Nerre	and a stranger	****V		and a married of	Marrie Mar	ater on a character	An Marthanton	- Jose no
00 0000									
60 dBm									───
70 dBm	011-			1000				01	
Start 2.306 (GHZ			1001	l pts			Stop	2.406 GHz
larker Turun langel	True I		1		1 -	1	-		
Type Ref M1		X-value	95 GHz	<u>Y-value</u> 5.68 dB	Func	tion	Fun	tion Result	t
	1								
		0	.4 GHz	-43 nn ae	lm i				
M1 M2 M3	1		.4 GHz 39 GHz	-43.00 dB -46.23 dB					
M2	1	2.3			3m				
M2 M3	1	2.3	39 GHz	-46.23 dB	3m	Rea	idy 🚺		
M2 M3	1	2.3	39 GHz	-46.23 dB	3m) Rea	ndy 🚺		•
M2 M3 M4		2.3 2.344	39 GHz 19 GHz	-46.23 dE -41.10 dE	3m 3m) Rea	o-Hoppi	na Ref	<u> </u>
M2 M3 M4		2.3 2.344	39 GHz 19 GHz	-46.23 dE -41.10 dE	3m 3m) Per Ant1 N	o-Hoppin	ng Ref	
M2 M3 M4		2.3 2.344	39 GHz 19 GHz	-46.23 dE -41.10 dE	3m 3m) Red Ant1 N	o-Hoppin	ng Ref	<u>۵</u>
M2 M3 M4 Spectrum Ref Level 2	1 1 1 Band	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 de -41.10 de OH5 248	BOMHz .		o-Hoppin	ng Ref	
M2 M3 M4 Spectrum Ref Level 2 Att	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 de -41.10 de OH5 248	8m 8m 80MHz /		o-Hoppi	ng Ref	
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 de -41.10 de OH5 248	BOMHz .		o-Hoppi	ng Ref	
M2 M3 M4 Spectrum Ref Level 2 Att	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 de -41.10 de OH5 248	80MHz /	uto FFT	o-Hoppi	ng Ref	
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 de -41.10 de OH5 248	80MHz /		o-Hoppin		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 de -41.10 de OH5 248	80MHz /	uto FFT	o-Hoppin		
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11 91Pk Max	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 de -41.10 de OH5 248	80MHz /	uto FFT	o-Hoppin		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11 91Pk Max 20 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 de -41.10 de OH5 248	80MHz /	uto FFT	o-Hoppin		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11 91Pk Max	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	80MHz /	uto FFT	o-Hoppin		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11 91Pk Max 20 dBm 10 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	BOMHZ /	uto FFT	o-Hoppin		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11 91Pk Max 20 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	BOMHZ /	uto FFT	o-Hoppin		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 1i)1Pk Max 20 dBm 10 dBm 0 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	BOMHZ /	uto FFT	o-Hoppin		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 11 91Pk Max 20 dBm 10 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	BOMHZ /	uto FFT	o-Hoppin		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 1i)1Pk Max 20 dBm 10 dBm 0 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	BOMHZ /	uto FFT	dv III		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 1i)1Pk Max 20 dBm 10 dBm 0 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	BOMHZ /	uto FFT	dv III		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 1i)1Pk Max 20 dBm 10 dBm 10 dBm 10 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	BOMHZ /	uto FFT	dv		7.76 dBm
M2 M3 M4 Spectrum Ref Level 2' Att SGL Count 1i)1Pk Max 20 dBm 10 dBm 10 dBm 10 dBm	1 1 1 Band 7.60 dBm 40 dB	2.3 2.344 Edge N Offset 7.	89 GHZ 19 GHZ VNT 1-I 60 dB • RE	-46.23 dE -41.10 dE DH5 244 3W 100 kHz 3W 300 kHz	BOMHZ /	uto FFT	o-Hoppin		7.76 dBm

Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

1001 pts

-40 dBm--50 dBm--60 dBm-

CF 2.48 GHz

Span 8.0 MHz

LXI



●1Pk Max			M1[1]				7.88 dBm
20 dBm							15000 GHz
10 gm			M2[1]				45.91 dBm 50000 GHz
0 dBm							
-10 dBmD1 -12.24	10 dBm						
-20 gBm							
-30 dBm							
-40 dBm	M4						
-50 dBm	nophilontenterpolar	ruthanalation	moundantal	when we	whith	wood for the former of the for	Myperaulternet
-60 dBm							
-70 dBm Start 2.476 GHz		1001	pts			Stop 2	2.576 GHz
Marker Type Ref Trc	X-value	Y-value	Function	1	Fund	tion Result	
M1 1 M2 1	2.48015 G	Hz 7.88 dBr	m		- uno		
M3 1	2.4835 G 2.5 G	Hz -45.20 dBr	m				
M4 1	2.4982 G	iHz -42.96 dBr	m				
Band Ed Spectrum Ref Level 27.60 dB Att 40 d SGL Count 2000/200 P1Pk Max	m Offset 7.60 d B SWT 18.9 µ	g) NVNT 1-D		FF T	1 Hop		₩ 7.18 dBm
Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto F	FF T	1 Hop		
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/200 PIPk Max	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto F	FF T	1 Hop		₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/200 PK Max 20 dBm 10 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto F	FF T	1 Hop		₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/200 PIPk Max 20 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/200 PK Max 20 dBm Ho dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBit Att 40 d SGL Count 2000/2000 ●1Pk Max 20 dBm H0 dBm 0 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBit Att 40 d SGL Count 2000/200 IPk Max 20 dBm 10 dBm -10 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/200 PIK Max 20 dBm 10 dBm -10 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBit Att 40 d SGL Count 2000/200 ●1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/200 • IPk Max 20 dBm 10 dBm -10 dBm -20 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/2000 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/200 ● 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto P	FF T			₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/2000 • 1Pk Max 20 dBm • 1Pk Max 20 dBm • 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	m Offset 7.60 d B SWT 18.9 µ	IB • RBW 100 kHz IS • VBW 300 kHz	Mode Auto F	FF T		2.476	7.18 dBm 05190 GHz
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/2000 • 1Pk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	m Offset 7.60 d B SWT 18.9 µ	iB 🖷 RBW 100 kHz	Mode Auto F	FF T		2.476	₩ 7.18 dBm
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/2000 ● 1Pk Max 20 dBm 0 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	m Offset 7.60 d B SWT 18.9 µ	IB • RBW 100 kHz IS • VBW 300 kHz	Mode Auto F	FF T		2.476	7.18 dBm 05190 GHz
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/2000 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz	m Offset 7.60 d B SWT 18.9 µ 0	IB • RBW 100 kHz IS • VBW 300 kHz	Mode Auto F	FFT		2.476	7.18 dBm 05190 GHz
Spectrum Ref Level 27.60 dBi Att 40 d SGL Count 2000/2000 • 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz	m Offset 7.60 d B SWT 18.9 µ 0	IB • RBW 100 kHz IS • VBW 300 kHz 	Mode Auto F	FFT		2.476	7.18 dBm 05190 GHz



Att SGL Count !	27.60 dBm 40 dB		• VBW 300 kHz	Mode Auto FFT		
1Pk Max	500/500					
				M1[1]		6.55 dBm
20 dBm				M2[1]		2.47795000 GHz -45.36 dBm
🖞 dBm —						2.48350000 GHz
10 dBm	01 -12.82	0 dBm				
20 dBm	51 -12.02					
20 0011						
-30 dBm						
40 dBm		M3 .				
heredy	how have	or when we have the stand of the work	how the here and the how and the stand	lanor lange on burn	annow manufactured	and where the astronghe
-50 dBm						
60 dBm						
70 dBm	CH2		1001 pt:			Stop 2.576 GHz
larker	0112		1001 pt	3		300p 2.370 GH2
Type Ref	Trc	X-value	Y-value	Function	Function	Result
M1	1	2.47795 GHz	6.55 dBm			
M2 M3	1	2.4835 GHz 2.5 GHz	-45.36 dBm -44.59 dBm			
M4	1	2.4857 GHz	-42.87 dBm			
	1	2.4857 GHz	-42.87 dBm	R	eady Caller	
		2.4857 GHz	-42.87 dBm	R	eady (
][· · · · · ·		MHz Ant1 I	ode Contra I	Cef
M4	Band	Edge NVNT 2		MHz Ant1 I	No-Hopping I	
M4	Band	Edge NVNT 2	2-DH5 2402	MHz Ant1 I	No-Hopping I	Ref
M4 Spectrum Ref Level 3	Band	Edge NVNT 2	2-DH5 2402 RBW 100 kHz		No-Hopping I	
M4 Spectrum Ref Level 2 Att	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402		No-Hopping I	
M4	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz		No-Hopping I	
M4 Spectrum Ref Level 2 Att SGL Count 3	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz		No-Hopping I	5.32 dBm
M4 Spectrum Ref Level 2 Att SGL Count 3	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz	Mode Auto FFT	No-Hopping I	
M4 Spectrum Ref Level 2 Att SGL Count 3 91Pk Max	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz	Mode Auto FFT	No-Hopping I	5.32 dBm
M4 Spectrum Ref Level 2 Att SGL Count 3 91Pk Max	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz VBW 300 kHz	Mode Auto FFT	No-Hopping I	5.32 dBm
M4 Spectrum Ref Level 2 Att SGL Count 2 1Pk Max 20 dBm	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz VBW 300 kHz	Mode Auto FFT	No-Hopping I	5.32 dBm
M4 Spectrum Ref Level 2 Att SGL Count 2 1Pk Max 20 dBm	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz VBW 300 kHz	Mode Auto FFT	No-Hopping I	5.32 dBm
M4 Spectrum Ref Level 2 Att SGL Count 2 11Pk Max 20 dBm L0 dBm	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz VBW 300 kHz	Mode Auto FFT	No-Hopping I	5.32 dBm
M4 Spectrum Ref Level 2 Att SGL Count 2 11Pk Max 20 dBm L0 dBm	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz VBW 300 kHz	Mode Auto FFT	No-Hopping I	5.32 dBm
M4 Spectrum Ref Level 2 Att SGL Count 2 SGL Count 2 SGL Count 2 11Pk Max 20 dBm 10 dBm	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz VBW 300 kHz	Mode Auto FFT	No-Hopping I	5.32 dBm
M4 Spectrum Ref Level 2 SGL Count 2 IPk Max 0 dBm 0 dBm dBm	Band 27.62 dBm 40 dB	Edge NVNT 2	2-DH5 2402 RBW 100 kHz VBW 300 kHz	Mode Auto FFT	No-Hopping I	5.32 dBm

1001 pts

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

-30 dBm

-40 dBm· -------50 dBm·

-60 dBm--70 dBm-

CF 2.402 GHz

Span 8.0 MHz

LXI



20 dBm 2.402050 10 dBm	5.18 dBm 00004GHz
20 dBm 2.402050 10 dBm M2[1] -45. 2.400000 0 dBm 2.400000 0 dBm 0 -10 dBm 0 -10 dBm 0 -20 dBm 0 -30 dBm 0 -40 dBm 0 -50 dBm 0 -70 dBm 0	5000 GH: 5.18 dBn 00004GH: 7
10 dBm 2.400000 0 dBm 2.400000 0 dBm 2.400000 -10 dBm 2.400000 -10 dBm 2.400000 -10 dBm 2.400000 -10 dBm 2.400000 -20 dBm 2.400000 -30 dBm 2.400000 -40 dBm 3.400000 -50 dBm 3.4000000 -60 dBm 3.4000000000000000000000000000000000000	
-10 dBm	
D1 -14.679 dBm	
-20 dBm	M2
-40 dBm	
-40 dBm- -40 dBm- -50 dBm- -60 dBm- -70 dBm-	
-60 dBm	UNLUI U.
-70 dBm	A. (00. A.
Start 2.306 GHz 1001 pts Stop 2.40 Marker	406 GHz
Type Ref Trc X-value Y-value Function Function Result M1 1 2.40205 GHz 4.26 dBm	
M2 1 2.4 GHz -45.18 dBm	
M3 1 2.39 GHz -46.40 dBm M4 1 2.35 GHz -41.37 dBm	
Spectrum Ref Level 27.62 dBm Offset 7.62 dB • RBW 100 kHz Att 40 dB SWT 18.9 μs • VBW 300 kHz Mode Auto FFT SGL Count 3000/3000 SGL Count 3000/3000 SGL Count 3000/3000 SGL Count 3000/3000	
SGL Count 3000/3000	
	5.34 dBn
M1[1] 5.	5880 GH:
M1[1] 5.	5880 GH.
M1[1] 5.	5880 GH:
20 dBm M1[1] 5. 2.403158	5880 GH
20 dBm	5880 GH
20 dBm M1[1]S. 2.403156	5880 GH
20 dBm	5880 GH
20 dBm M1[1]5. 20 dBm 10 dBm -10 dBm	5880 GH
20 dBm	5880 GH
20 dBm M1[1] 5. 20 dBm 2.403158 10 dBm M1 0 dBm M1 -10 dBm -20 dBm	5880 GH
20 dBm	5880 GH
20 dBm M1[1] 5. 10 dBm 2.403156 10 dBm M1 -10 dBm -10 dBm -20 dBm -30 dBm	5880 GH
20 dBm M1[1] 5. 10 dBm M1 0 dBm M1 -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -60 dBm -60 dBm	5880 GH
20 dBm M1[1] 5. 10 dBm M1 0 dBm M1 -10 dBm M1 -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -10 dBm	5880 GH



	40 dB 500/500			RBW 100 kH VBW 300 kH		uto FFT			
1Pk Max									
					MI	[1]			3.00 dBm
20 dBm									295000 GHz
10 dBm				_	M2	[1]			-44.52 dBm)00000 _N GHz
							1	2.400	V0000000000000000000000000000000000000
0 dBm									which
-10 dBm									19 (M-1
	D1 -14.663	dBm							
-20 dBm									
-30 dBm									
-So ubin				M4					
-40 dBm			munichan	—				M3	M2
-50 dBm	shrewdil yound	martenports	MUMMENT	when we	punderation	monormal	would prove	monteresting	un meter
-JU UBIII									
-60 dBm									<u> </u>
70 d0									
-70 dBm Start 2.306	GHz			1001	nts			Ston	2.406 GHz
larker	GIL			1001				0.00	2.1.30 GHZ
Type Ref	Trc	X-val	ue	Y-value	Funct	ion	Fun	tion Result	t[
M1	1	2.40	0295 GHz	3.00 dB					
M2	1		2.4 GHz	-44.52 dB					
MЗ	1		2.39 GHz	-44.49 dB -40.35 dB					
M4	1								
M4	1 1					Dee	A. (11)		0
M4						Rea	dy 🚺		0
M4		C dere l				Rea	dy 🚺	n Dof	۵
M4		Edge I	NVNT 2	-DH5 248	80MHz A	Rea Ant1 N	o-Hoppin	ng Ref	
M4	Band	Edge I	NVNT 2	-DH5 248	80MHz A	Rea	o-Hoppi	ng Ref	
	Band			-DH5 248		Rea Ant1 N	o-Hoppin	ng Ref	
Spectrum Ref Level 3 Att	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1		:		o-Hoppin	ng Ref	
Spectrum Ref Level : Att SGL Count	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz	:		o-Hoppin	ng Ref	
Spectrum Ref Level : Att SGL Count	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz	: Mode Au	to FFT	o-Hoppin	ng Ref	
Spectrum Ref Level : Att SGL Count 1Pk Max	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz	: Mode Au		o-Hoppin		6.03 dBm
Spectrum Ref Level : Att SGL Count 1Pk Max	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz	: Mode Au	to FFT	o-Hoppin		
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm
Spectrum Ref Level 3 Att SGL Count PIPk Max 20 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm
Spectrum Ref Level 3 Att SGL Count 1Pk Max	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz VBW 300 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz VBW 300 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm 10 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz VBW 300 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm
Spectrum Ref Level 3 Att SGL Count 1Pk Max 20 dBm 10 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz VBW 300 kHz	: Mode Au	to FFT	• Hoppin		6.03 dBm
Spectrum Ref Level : Att SGL Count IPk Max 20 dBm 10 dBm 0 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz VBW 300 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm
Spectrum Ref Level : Att SGL Count 1Pk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz VBW 300 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm
Spectrum Ref Level : SGL Count) IPk Max 20 dBm 10 dBm 0 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz VBW 300 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm
Spectrum Ref Level : Att SGL Count IPk Max 20 dBm 10 dBm 0 dBm -10 dBm	Band 27.60 dBm 40 dB	Offset	7.60 dB 👄 1	RBW 100 kHz VBW 300 kHz	: Mode Au	to FFT	o-Hoppin		6.03 dBm

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

1001 pts

-40 dBm· ------50 dBm·

-60 dBm--70 dBm-

CF 2.48 GHz

Span 8.0 MHz

LXI



SGL Count 1 91Pk Max									
20 dBm					<u> </u>	1[1] 2[1]			3.84 dBm 015000 GHz -45.27 dBm
10 d Bm							1		350000 GHz
0 dBm									
-10 cBm	1 -13.968	dBm							
-20 dBm									
-30 dBm									
-40 damiz	M4	мз	Minayu	hulman	ale a transfer			. Latura	
-50 dBm	ngunnat	burnettyer man	, The second	- dronwardy	far an a construction of the construction of t	para and a second	Man and a start and a start and a start	www.	. Mary days and marked and
-60 dBm									
-70 dBm	011-			1001				Otan	0.576.011-
Start 2.476 Marker	GHZ			1001	r prs			stup	2.576 GHz
Type Ref	Trc 1	X-value 2.480	9 15 GHz	Y-value 3.84 dB	Func	tion	Fund	ction Resul	t
M2 M3	1		35 GHz 2.5 GHz	-45.27 dB -46.36 dB					
	1		96 GHz	-42.60 dB					
Spectrum Ref Level 2 Att SGL Count 2	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	VNT 2-D	: Mode A	uto FFT	Ant1 Ho	pping R	
Ba Spectrum Ref Level 2 Att	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A		Ant1 Ho		
Ba Spectrum Ref Level 2 Att SGL Count 2 • 1Pk Max 20 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT	Ant1 Ho		₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 SGL Count 2 O dBm 10 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT	Ant1 Ho		₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 • 1Pk Max 20 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT	Ant1 Ho		₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 SGL Count 2 O dBm 10 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT	Ant1 Ho		₩ 5.54 dBm
Ba Spectrum Ref Level 2 SGL Count 2 SGL Count 2 SGL Count 2 O dBm 10 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT	Ant1 Ho		₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 O IPk Max 20 dBm 10 dBm -10 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT	Ant1 Ho		₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 IPk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT			₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 IPk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT	Ant1 Ho		₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 IPk Max 20 dBm 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT			₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 IPk Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT			₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 9 1Pk Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	27.60 dBm 40 dB	Offset 7.	.60 dB 👄 F	RBW 100 kHz	: Mode A	uto FFT			₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 IPk Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	27.60 dBm 40 dB 2000/2000	Offset 7.	.60 dB 👄 F	RBW 100 kHz		uto FFT		2.480	₩ 5.54 dBm
Ba Spectrum Ref Level 2 Att SGL Count 2 IPK Max 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	27.60 dBm 40 dB 2000/2000	Offset 7.	.60 dB 👄 F	RBW 100 kHz VBW 300 kHz		uto FFT		2.480	5.54 dBm 015180 GHz
Ba Spectrum Ref Level 2 Att SGL Count 2 SGL Count 2 SGL Count 2 ID ABM 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -60 dBm -70 dBm -70 dBm	z z z z	Offset 7. SWT 1	60 dB • F 8.9 μs • V	RBW 100 kHz VBW 300 kHz	Mode A	uto FF T		2.480	5.54 dBm 015180 GHz



Att SGL Cour	nt 1000/1		27.5 µs (● VBW 300 kHz	Mode A	uto FFT			
20 dBm—					M	l[1]		2.477	5.74 dBr 15000 GH
M_D dBm—					M	2[1]		-	44.31 dBr 50000 GH
,¢,/d₽m—									
-10 cBm—	D1 1/								
-20 aBm—	-01 -14	+.457 dBm							
-30 dBm—									
-40 dBm12	homewal	MAB White Which have	mentur	the margarentalling	metricontelly	handelyen	المارية	plane markey	Monaument
-50 dBm—					· ·		· · · ·		
-60 dBm—									
-70 dBm-				1001	pts			Stop :	2.576 GHz
Start 2.4	76 GHz			1001					
Marker		X-valu	e	Y-value	Funct	ion	Fun	ction Result	
		2.47	e 715 GHz 335 GHz		1	ion	Fun	ction Result	
Marker Type F M1	ef Trc	. 2.47 2.48	715 GHz	Y-value 5.74 dBn	ו ו ו	ion	Fun	ction Result	
Marker Type F M1 M2 M3 M4 Spectru Ref Leve	Bai	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn		Ant1 N	adv 🚺		à
Marker Type F M1 M2 M3 M4 Spectru Ref Leve	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz	2MHz /	Ant1 N	adv 🚺		8
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour ● 1Pk Max	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz	2MHz A	Ant1 N	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour @ 1Pk Max 20 dBm—	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz	2MHz A) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour ● 1Pk Max	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour @ 1Pk Max 20 dBm—	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi 15980 GH
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour PIPk Max 20 dBm— 10 dBm—	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour P1Pk Max 20 dBm— 0 dBm—	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dB)
Marker Type F M1 M2 M3 M4 Spectru M4 Ref Leve SGL Cour 91Pk Max 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm-	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour PIPk Max 20 dBm- 10 dBm- 0 dBm- -10 dBm-	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru M4 Ref Leve SGL Cour 91Pk Max 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm-	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Ref Leve SGL Cour 10 dBm─ 10 dBm─ 0 dBm─ -10 dBm─ -20 dBm─ -30 dBm─	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dB)
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour ● 1Pk Max 20 dBm- 10 dBm- -10 dBm- -20 dBm- -40 dBm-	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru Ref Leve Att SGL Cour ●1Pk Max 20 dBm— 10 dBm— 0 dBm— -10 dBm— -30 dBm— -30 dBm— -50 dBm— -60 dBm— -60 dBm—	Bai Bai Bai Bai 1 27.62 4 01 27.62	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz	2MHz A Mode Au) Pe Ant1 N uto FFT	adv 🚺	ng Ref	5.22 dBi
Marker Type F M1 M2 M3 M4 Spectru M4 Ref Leve Att SGL Cour 10 dBm— 10 dBm— 0 dBm— -10 dBm— -30 dBm— -30 dBm— -50 dBm—	Bai	dBm Offset 7 0 dB SWT 1	715 GHz 335 GHz 2.5 GHz 997 GHz	Y-value 5.74 dBn -44.31 dBn -42.36 dBn -42.28 dBn 3-DH5 240 RBW 100 kHz VBW 300 kHz) Pe Ant1 N uto FFT	adv 🚺	2.402	5.22 dB



Spectru Bof Loug	m	m Offcot	7.62 dp 🚍	RBW 100 kH;	7			
Att	40 40 t 100/100	dB SWT			Mode Auto F	FT		
1Pk Max								
					M1[1]			0.89 dBm
20 dBm—							2.40	195000 GHz
10 dBm—					M2[1]		2.40	-47.44 dBm 000000 GHz
								M1
0 dBm——								
-10 dBm—				_				
	D1 -14.3	779 dBm						
-20 dBm—								
-30 dBm—			_	_				
-40 dBm—				M4				
HALLON CONTEN	1 arts Alas	har works as	with a property	moundation	non many house the	A hubo while had we	M3	Warmer Wern
-50 dBm-	Mag Nr	- 10 · · · 107 · • • • •	an of the second se		Conce - Different home of a const	C & Discrete such such s	alor of a cillar ellerite	0.00
-60 dBm—								
co aom								
-70 dBm—				1001	ntc		01	2 406 CU-
Start 2.3 1arker	UB GHZ			1001	pts		stop	2.406 GHz
Type R	ef Trc	X-va	lue	Y-value	Function	1 6	unction Resu	lt l
M1	1		0195 GHz	0.89 dB				
M2	1		2.4 GHz	-47.44 dBi				
M3 M4	1		2.39 GHz	-47.40 dB	m			
		2.	3498 GHz	-41.47 dB		Ready		
	Band E			-41.47 dB		Ready Hz Ant1 F	Hopping F	
	Band E			-41.47 dB	m	Ready Hz Ant1 H	Hopping F	Ref
Spectru Ref Leve Att	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	m		Hopping F	
Spectru Ref Leve Att SGL Cour	Band E	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	^m H5 2402M		Hopping F	
Spectru Ref Leve Att SGL Cour	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff		Hopping F	
Spectru Ref Leve Att SGL Cour 1Pk Max	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	^m H5 2402M			
Spectru Ref Leve Att SGL Cour 1Pk Max	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff			₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour 1Pk Max 20 dBm—	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff			₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour 1Pk Max 20 dBm—	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff		2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour 1Pk Max 20 dBm 10 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour 1Pk Max 20 dBm 10 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour J IPk Max 20 dBm 10 dBm 0 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour 1Pk Max 20 dBm- 10 dBm- 0 dBm-	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour 1Pk Max 20 dBm 10 dBm 10 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour IPk Max 20 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour IPk Max 20 dBm 10 dBm -10 dBm -20 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour PIPk Max 20 dBm 10 dBm 10 dBm -10 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour PIPk Max 20 dBm 10 dBm 10 dBm -10 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour J IPk Max 20 dBm- 10 dBm- 0 dBm-	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm
Spectru Ref Leve Att SGL Cour 9 IPk Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm	Band E m 1 27.62 dt 40	dge(Ho Bm Offset dB swr	pping) N	-41.47 dB IVNT 3-D RBW 100 kHz	Mode Auto Ff	-т	2.40	₩ 3.52 dBm

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

1001 pts

-70 dBm-

CF 2.402 GHz

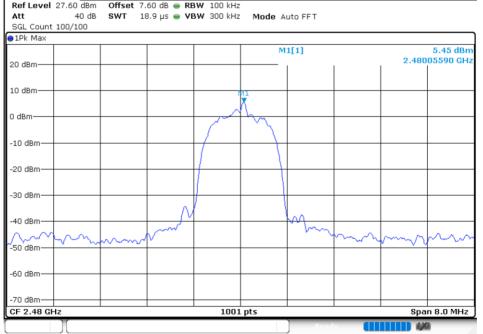
Span 8.0 MHz

LXI



Report No.: S19082902506001

				M1[1]		3.10 dBm
0 dBm						2.40285000 GHz
.0 dBm				M2[1]		-45.14 dBm 2.40000000 <mark>,G</mark> Hz
-				1		THORSTON
I dBm						hhim
10 dBm						- v
20 dBm	1 -16.483	dBm				
30 dBm						
40 dBm			M4			3 M2
50 dBm	www.	Herelly reproved that the second	www.warana	way have been a served and a served of the s	moderal managed and	of more thank of the second
So abiii						
60 dBm						
70 dBm						
tart 2.306	GHz		1001 pt	5		Stop 2.406 GHz
arker Type Ref	T ue	X-value	Y-value	Function	Function	Description 1
M1 M1	1	2.40285 GHz	3.10 dBm	Function	Function	Result
M2	1	2.4 GHz	-45.14 dBm			
MЗ	1	2.39 GHz	-45.95 dBm			
M4	1	2.3483 GHz	-41.17 dBm			



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission



Ref Level 27.60 dBr	m Officiat 7.00	dB 👄 RBW 100 ki					
Att 40 d		ив — КВ ₩ 100 ki µs — VBW 300 ki		Auto FFT			
SGL Count 200/200			nous				
1Pk Max							
			M	1[1]			5.70 dBm
20 dBm			<u> </u>				15000 GHz
10 Mam			M	2[1]			45.99 dBm
TOGBIN				1	1	2.403	30000 GH2
D dBm							
10 000							
-10 dBm	52 dBm						
-20 dBm							
-30 dBm							
-40 dBm	M3						
1 upter white	upprovide work lie on the	renoralistany war ward	hourseman	an riper will pure	monthalde	andfor and where	- Understander have
-50 dBm			1	-			
-60 dBm							
-70 dBm							
Start 2.476 GHz		100	1 pts			Stop	2.576 GHz
1arker							
Type Ref Trc	X-value	Y-value Hz 5.70 d		tion	Fund	tion Result	
M1 1	2.48015 G 2.4835 G						
M2 1							
M2 1 M3 1	2.4635 G 2.5 G						
		Hz -44.96 d	Bm				
M3 1 M4 1	2.5 G 2.4891 G	Hz -44.96 d Hz -43.01 d	Bm Bm] Rea	dy 🚺		
M3 1 M4 1 Band Ed Spectrum Ref Level 27.60 dBr Att 40 d	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d	Bm Bm DH5 248		Ant1 Ho	oping R	ef
M3 1 M4 1 Band Ed Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248		Ant1 Ho	oping R	
M3 1 M4 1 Band Ec Spectrum Ref Level 27.60 dBr	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A		Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ed Spectrum Ref Level 27.60 dBr Att Att 40 d SGL Count 2000/200 IPk Max	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		₹
M3 1 M4 1 Band Ed Spectrum Ref Level 27.60 dBr Att Att 40 d SGL Count 2000/200 IPk Max	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ed Band Ed Spectrum Band Ed Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 Pipk Max 20 dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ed Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ed Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 PIPk Max 20 dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ed Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 PIPk Max 20 dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	47 MI		€.48 dBm
M3 1 M4 1 Band Ec Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 1Pk Max 20 dBm In dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	4v III Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ed Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 PIPk Max 20 dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ec Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 PIPk Max 20 dBm Ma dBm O dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ec Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 PIPk Max 20 dBm Ma dBm O dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ec Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 PIPk Max 20 dBm 10 dBm 20 dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 M4 1 Band Ec 0 Spectrum 40 d SGL Count 2000/200 1Pk Max 10 dBm 0 10 dBm 0 20 dBm 0	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 M4 1 Band Ec Spectrum Carl Level 27.60 dBr SGL Count 2000/200 IPk Max 0 dBm 0 dBm 0 dBm 0 dBm	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm
M3 1 M4 1 Band Ec Spectrum Ref Level 27.60 dBr Att 40 d SGL Count 2000/200 PIPk Max 20 dBm M3 1	2.5 G 2.4891 G dge(Hoppin m Offset 7.60 c B SwT 18.9 p	Hz -44.96 d Hz -43.01 d g) NVNT 3-[//B • RBW 100 kH	Bm Bm DH5 248 Iz Z Mode A	uto FFT	Ant1 Ho		€.48 dBm

1001 pts

-50 dBm·

-60 dBm--70 dBm-

CF 2.48 GHz

Span 8.0 MHz

LXI



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission ₽ Spectrum Ref Level 27.60 dBm Offset 7.60 dB . RBW 100 kHz 40 dB SWT 227.5 µs 🖷 VBW 300 kHz Mode Auto FFT Att SGL Count 500/500 ●1Pk Max M1[1] 5.66 dBn 20 dBm-2.47995000 GHz -44.01 dBm 2.48350000 GHz M2[1] 10**\d**&m R de -10 dBm D1 -13.518 dBm--20 cBm· -30 dBm -40 dem -40 undringramounder in Mound which the marked marshaver amar Mohall Markoly unisim a Artes An -50 dBm -60 dBm -70 dBm· Stop 2.576 GHz Start 2.476 GHz 1001 pts Marker Type Ref Trc 2.47995 GHz Y-value 5.66 dBm Function Function Result M1 1 2.4835 GHz M2 -44.01 dBm 1 ΜЗ 1 2.5 GHz -43.23 dBm 2.4895 GHz M4 1 -42.74 dBm 4,40



8.7 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant 1	-54.9	-20	Pass
NVNT	1-DH5	2441	Ant 1	-59.01	-20	Pass
NVNT	1-DH5	2480	Ant 1	-58.41	-20	Pass
NVNT	2-DH5	2402	Ant 1	-59.23	-20	Pass
NVNT	2-DH5	2441	Ant 1	-58.68	-20	Pass
NVNT	2-DH5	2480	Ant 1	-60.87	-20	Pass
NVNT	3-DH5	2402	Ant 1	-58.9	-20	Pass
NVNT	3-DH5	2441	Ant 1	-58.69	-20	Pass
NVNT	3-DH5	2480	Ant 1	-59.55	-20	Pass

ACCREDITED

Certificate #4298.01



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



SGL Count 1 91Pk Max									
10 dBm					N	41[1]		2.4	6.29 dBm 102490 GHz
0 dBm					N	42[1]			-48.61 dBm 931882 GHz
-10 dBm								1.5	51002 GH2
-20 dBm	1 -13.699	dBm							
-30 dBm									
-40 dBm	мз								
-50 dBm	Y	M4	MS			ير عد م مطر ال	and shad	4 . 1.	
-60 dBm			and the second secon	and the second sec	alayan daga kanalari Managa kanalari dan sasari				
-70 dem									
-80 dBm	1112			30001	1 ntc			Stor	25.0 GHz
Marker	1112			30001	r prs			3.01	5 23.0 GH2
Type Ref	1 Trc	X-value 2.402	9 GHz	Y-value 6.29 dB		ction	Fund	tion Result	:
M2	1	1.9318	82 GHz	-48.61 dB	m				
M3 M4	1	4.8034	32 GHz	-52.48 dBi -59.38 dBi					
M5	1		92 GHz	-60.29 dB					
Spectrum Ref Level Att SGL Count 1	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	VNT 1-D RBW 100 kH: VBW 300 kH:	z		Ant1 Re	f	(₩)
Ref Level Att	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode		Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		
Ref Level Att SGL Count 1 PIPk Max 10 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 91Pk Max	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 P1Pk Max 10 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 P1Pk Max 10 dBm 0 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 P1Pk Max 10 dBm -10 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 P1Pk Max 10 dBm -10 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 • IPk Max 10 dBm • 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 ID dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 9 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode	Auto FFT	Ant1 Re		4.88 dBm
Ref Level Att SGL Count 1 SGL Count 1 ID dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -70 dBm	17.78 dBm 20 dB .000/1000	Offset 7	7.78 dB 👄	RBW 100 kH:	Z Mode	Auto FFT	Ant1 Re	2.44115	4.88 dBm
Ref Level Att SGL Count 1 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -80 dBm	17.78 dBm 20 dB .000/1000	Offset 7	7.78 dB 👄	RBW 100 kH; VBW 300 kH;	Z Mode	Auto FFT	Ant1 Ret	2.44115	4.88 dBm 91450 GHz
Ref Level Att SGL Count 1 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -80 dBm	17.78 dBm 20 dB .000/1000	Offset 7 SWT	7.78 dB 18.9 μs 	RBW 100 kH; VBW 300 kH; 	Z Mode	Auto FFT		2.44115	4.88 dBm 91450 GHz
Ref Level Att SGL Count 1 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -80 dBm	17.78 dBm 20 dB .000/1000	Offset 7 SWT	7.78 dB 18.9 μs 	RBW 100 kH; VBW 300 kH;	Z Mode	Auto FFT		2.44115	4.88 dBm 91450 GHz
Ref Level Att SGL Count 1 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -80 dBm	17.78 dBm 20 dB .000/1000	Offset 7 SWT	7.78 dB 18.9 μs 	RBW 100 kH; VBW 300 kH; 	Z Mode	Auto FFT		2.44115	4.88 dBm 91450 GHz
Ref Level Att SGL Count 1 SGL Count 1 ID dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -80 dBm	17.78 dBm 20 dB .000/1000	Offset 7 SWT	7.78 dB 18.9 μs 	RBW 100 kH; VBW 300 kH; 	Z Mode	Auto FFT		2.44115	4.88 dBm 91450 GHz



SGL Count	20 10/10	db SWT	200 1115	• VBW 300 kH	z Mode Au	ilo aweep	,		
10 dBm					M1[1]		24	4.36 dBm 40770 GHz
0 dBm					M2[1]		-	-54.13 dBm
-10 dBm		_	_					19.7	752138 GHz
-20 dBm	D1 -15.1	15 dBm	_						
-30 dBm		_	_						
-40 dBm			_						
-50 dBm		M3					M2		
-60 dBm	and the second second		M4	M	an a				امرينا (مريون ماريون مريوز (مريون ماريون ماريون
-70 dBm	dia destruit de la filma								
Start 30.0	MLIA		_	3000	1 ptc			Pto	25.0 GHz
Marker				3000.				3.01	5 23.0 GH2
Type Re M1	f Trc 1	X-val 2.44	4077 GHz	<u>Y-value</u> 4.36 dB	Function	on	Func	tion Result	<u> </u>
M2 M3	1		2138 GHz 1671 GHz	-54.13 dB -56.76 dB					
M4 M5	1		192 GHz	-59.68 dB -60.26 dB					
Spectrun Ref Leve Att SGL Count 1Pk Max	L 17.60 di 20	dB SWT	7.60 dB 🖷	• RBW 100 kH	z z Mode Au	ito FFT			
Ref Leve Att	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z	to FFT		2.48016	7.92 dBm i05950 GHz
Ref Leve Att SGL Count 91Pk Max 10 dBm-	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z z Mode Au M1[to FFT		2.48016	7.92 dBm
Ref Leve Att SGL Count PIPk Max 10 dBm	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z z Mode Au M1[to FFT		2.48016	7.92 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z z Mode Au M1[to FFT		2.48016	7.92 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z z Mode Au M1[to FFT		2.48016	7.92 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z z Mode Au M1[to FFT		2.48016	7.92 dBm
Ref Leve • Att SGL Count • 1Pk Max 10 dBm -10 dBm -20 dBm -38 dBm	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z z Mode Au M1[to FFT		2.48016	7.92 dBm
Ref Leve Att SGL Count • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -38 dBm -40 dBm	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z z Mode Au M1[to FFT		2.48016	7.92 dBm
Ref Leve Att SGL Count • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -38 dBm -40 dBm -50 dBm	L 17.60 di 20	3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	z z Mode Au M1[to FFT		2.48016	7.92 dBm
Ref Leve Att SGL Count SGL Count ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -38 dBm -50 dBm -60 dBm -70 dBm -80 dBm		3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH VBW 300 kH	Z Mode Au	to FFT			7.92 dBm 505950 GHz
Ref Leve Att SGL Count SGL Count ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -38 dBm -40 dBm -50 dBm -70 dBm		3m Offset dB SWT	7.60 dB 🖷	RBW 100 kH	Z Mode Au	to FFT			7.92 dBm



● 1Pk Max 10 dBm — M	1				м	1[1]		_	7.73 dBm
10 dBm					м	2[1]			479890 GHz -50.50 dBm
-10 dBm-								4.9	959910 GHz
-20 dBm-	D1 -12.076	dBm							
-30 dBm									
-40 dBm									
-50 dBm	M	f		40					
-60 dBm	and the state of the second	M	17 17 17 19 19 19 19 19		المنافية الألبية في المرابعة الم	dan barra	-		
-70 dem	and the second		na fan de fan de fan de ferste fan de fe					1.00	
-80 dBm	MH2			30001	nts			Stor	p 25.0 GHz
Marker									
Type Re	1		89 GHz	Y-value 7.73 dBr		tion	Fund	ction Resul	t
M2 M3	1	4.959	91 GHz 91 GHz	-50.50 dBr -50.50 dBr	n				
M4 M5	1	7.4469: 9.8049:		-59.36 dBr -58.53 dBr					
						Rea	dy 🚺		6
●1Pk Max					M	1111			
10 dBm				M		1[1]	1	2.40184	5.12 dBm 429550 GHz
10 dBm				MI				2.40184	
10 dBm				ML				2.40184	
								2.40184	
0 dBm				M.				2.40184	
0 dBm								2.40184	
0 dBm								2.40184	
0 dBm								2.40184	
0 dBm								2.40184	
0 dBm								2.40184	
0 dBm								2.40184	
0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm								2.40184	
0 dBm	3Hz								429550 GHz



●1Pk Max					м	1[1]			3.11 dBm
10 dBm M									101650 GHz
0 dBm					M	2[1]			-54.11 dBm 15036 GHz
-10 dBm									
-20 dBm	1 -14.881	dBm							
-30 dBm									
-40 dBm									
-50 dBm								12	
-60 dBm	Ma	M4		15	والمتلية وأسروا ويرجع		and the second state	le Malana andrewski de	وريار فيرود فرافعه
-70 dBm	one of the second second	No. of Concession, Name	Soldiers of the State	and protection of the second second	-to all attractions				an a
-80 dBm									
Start 30.0 M	Hz			3000:	L pts			Stop	25.0 GHz
Marker Type Ref	Trc	X-value	.	Y-value	Func	tion	Fund	tion Result	t
M1 M2	1		65 GHz	3.11 dB -54.11 dB	m				
M3	1	4.80343	32 GHz	-58.91 dB	m				
M4 M5	1	7.1139 9.7358		-58.30 dB -60.11 dB					
)[]) Rea	dy 🔛	•	0
Spectrum Ref Level : Att SGL Count 11	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH: VBW 300 kH:	z		Ant1 Re	f	
Ref Level	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode /		Ant1 Re		4.04 dBm
Ref Level : Att SGL Count 10	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH:	z z Mode /	Auto FFT	Ant1 Re		
Ref Level 3 Att SGL Count 10 1Pk Max	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level 3 Att SGL Count 10 1Pk Max 10 dBm 0 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level 3 Att SGL Count 11 PIPK Max 10 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level 3 Att SGL Count 10 1Pk Max 10 dBm 0 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level 3 Att SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level Att SGL Count 11 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level 3 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -20 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level Att SGL Count 11 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level : Att SGL Count 11 • IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level Att SGL Count 11 ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level Att SGL Count 11 ID dBm 0 dBm -10 dBm -10 dBm -30 dBm -30 dBm -50 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level Att SGL Count 11 • IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	17.78 dBm 20 dB	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	z z Mode /	Auto FFT	Ant1 Re		4.04 dBm
Ref Level Att SGL Count 11 • IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	17.78 dBm 20 dB 000/1000	Offset 7	7.78 dB 👄	RBW 100 kH VBW 300 kH	Z Mode /	Auto FFT	Ant1 Re	2.44084	4.04 dBm
Ref Level Att SGL Count 11 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	17.78 dBm 20 dB 000/1000	Offset 7	7.78 dB 👄	RBW 100 kH; VBW 300 kH;	Z Mode /	Auto FFT	Ant1 Re	2.44084	4.04 dBm IS54050 GHz
Ref Level Att SGL Count 11 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	I7.78 dBm 20 dB 000/1000	Offset 7 SWT 2	7.78 dB 18.9 µs	RBW 100 kH; VBW 300 kH;	Z Mode /	Auto FFT		2.44084	4.04 dBm IS54050 GHz
Ref Level Att SGL Count 11 9 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	I7.78 dBm 20 dB 000/1000	Offset 7 SWT 2	7.78 dB 18.9 µs	RBW 100 kH; VBW 300 kH;	Z Mode /	Auto FFT		2.44084	4.04 dBm IS54050 GHz
Ref Level Att SGL Count 11 9 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	I7.78 dBm 20 dB 000/1000	Offset 7 SWT 2	7.78 dB 18.9 µs	RBW 100 kH; VBW 300 kH; M1	Z Mode /	Auto FFT		2.44084	4.04 dBm IS54050 GHz



●1Pk Max					M1	[1]			1.72 dBm
10 dBm M	1								40770 GHz
0 dBm					M2	[1]			54.65 dBm 13657 GHz
-10 dBm—									
-20 dBm—	D1 -15.959	dBm							
-30 dBm									
-40 dBm									
-50 dBm	M3	M4	M	5		The later	a here a here here		
-60 dBm				and a second s				a subsection of the second	a finanda ya kawa Manada ya Jawa
-70 dBm									
Start 30.0	MLIA			3000	1 ptc			Pton	25.0 GHz
Marker				3000.	i pis			3104	1 23.0 GH2
Type Re		X-value		Y-value	Functi	on	Func	tion Result	:l
M1 M2	1	15.71365	77 GHz 57 GHz	1.72 dB -54.65 dB					
M3	1	4.88167		-59.03 dB					
M4 M5	1	7.16642		-59.62 dB -59.84 dB					
	1					Rear			1
Att SGL Count	17.60 dBm 20 dB 1000/1000			RBW 100 kH VBW 300 kH		ito FFT			
Ref Leve Att SGL Count PIPk Max	17.60 dBm 20 dB							2 49016	6.12 dBm
Ref Leve Att SGL Count	17.60 dBm 20 dB				z Mode Au	[1]		2.48016	
Ref Leve Att SGL Count PIPk Max	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm-	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve • Att SGL Count • 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	17.60 dBm 20 dB				Z Mode Au	[1]		2.48016	6.12 dBm
Ref Leve Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm	17.60 dBm 20 dB 1000/1000				Z Mode Au	[1]			6.12 dBm 01450 GHz
Ref Leve Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	17.60 dBm 20 dB 1000/1000				Z Mode Au	[1]		Spa	6.12 dBm



10 dBm M1[1] 0 dBm M2[1] -10 dBm D1 -13.879 dBm	0.54 dB 2.479890 Gł -54.76 dB 15.703669 Gł
-10 dBm D1 -13.879 dBm	
-20 dBm20 dBm20 dBm20 dBm	
-20 dBm	
-30 dBm	
-40 dBm	
-50 dBm	
	and the second second second
	and the second
-70 dBm	
-80 dBm Stort 30.0 MHz 30001 pts	Stop 25.0 GH
Marker	
Type Ref Trc X-value Y-value Function Function M1 1 2.47989 GHz 0.54 dBm	on Result
M2 1 15.703669 GHz -54.76 dBm M3 1 4.95991 GHz -58.99 dBm	
M3 1 4.95991 GHz -58.99 dBm M4 1 7.392821 GHz -58.39 dBm	
M5 1 10.109557 GHz -60.45 dBm	
Spectrum	
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 μs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 20 dB SWT 18.9 μs Mode Auto FFT	
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 μs ● VBW 300 kHz Mode Auto FFT	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 μs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 •	
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 Image: state s	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 μs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 M1[1] 10. dBm M1[1]	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 Image: state s	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 M1[1] M1 M1 M1 M1 10 dBm -0 dBm	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 M1[1] M1 M1 M1 M1 10 dBm 0 d	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 M1[1] M1 M1 M1 M1 10 dBm -0 dBm	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 M1[1] M1 M1 M1 10 dBm 0 dBm	5.14 dB
Note Note Nutree	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 Image: SWT 18.9 µs VBW 300 kHz Mode Auto FFT 10 dBm M1	5.14 dB
Note Note Nutree	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 Image: second secon	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 Image: second se	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 Image: second secon	5.14 dB
Ref Level 17.62 dBm Offset 7.62 dB RBW 100 kHz Att 20 dB SWT 18.9 µs VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 Image: second se	5.14 dB



	×				M1[1	1			-0.03 dBm
10 dBm—	м							2	.402490 GHz
0 dBm—					M2[1	1		20	-53.76 dBm .151658 GHz
-10 dBm-	D1 -14	364.dBm							
-20 dBm-									
-30 dBm-									
-40 dBm-									
-50 dBm-		MB	M4	M5				<u>42</u>	
-60 dBm-	all an							In the formation of	
-70 asm-									
-80 dBm- Start 30	.0 MHz	_	_	30001	L pts			Sto	op 25.0 GHz
Marker						1			
M1	Ref Trc	X-va 2.4	lue 10249 GHz	Y-value -0.03 dBr		<u>ו</u>	Fun	ction Resu	ilt
M2 M3	1		31658 GHz	-53.76 dBr -59.18 dBr					
		1.00							
M4	1		95678 GHz	-59.56 dBr					
M5 Spectre Ref Lee Att SGL Cou	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-59.56 dBr -60.53 dBr NVNT 3-D RBW 100 kHz	m 0H5 2441I		Ant1 Re	f	
Spectro Ref Lee Att	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m 0H5 24411 2 2 2 3 3 3 3 3 4 3 4 4 1 3 4 4 1 1 3 4 1 1 1 1	D FFT	Ant1 Re	f	
M5 Spectre Ref Lee Att SGL Cou	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm 1596450 GHz
M5 Spectru Ref Le Att SGL Cou 10 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m 0H5 24411 2 2 2 3 3 3 3 3 4 3 4 4 1 3 4 4 1 1 3 4 1 1 1 1	D FFT	Ant1 Re		4.67 dBm
M5 Spectro Ref Leo Att SGL Cou	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectru Ref Le Att SGL Cou 10 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectri Ref Le Att SGL Cou 1Pk Ma: 10 dBm- 0 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectri Ref Le SGL Cou 10 dBm- 0 dBm- -10 dBm- -20 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectri Ref Le Att SGL Cou 10 dBm- 0 dBm- -10 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectri Ref Le SGL Cou 10 dBm- 0 dBm- -10 dBm- -20 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectri Ref Le Att SGL Cou 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectri Ref Le' SGL Cou 9 1Pk Mai 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectri Ref Le Att SGL Cou 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectri Ref Le' SGL Cou 9 1Pk Mai 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm-	um vel 17.78 21 nnt 1000/10	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 24411 ² Mode Auto M1[1	D FFT	Ant1 Re		4.67 dBm
M5 Spectr Ref Le Att SGL Cou 10 dBm- 0 dBm- -10 dBm- -20 dBm- -20 dBm- -30 dBm- -50 dBm- -60 dBm- -70 dBm-	1 vel 17.78 2 int 1000/10 x	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr	m PH5 2441I 2 Mode Autr	D FFT	Ant1 Re	2.4411	4.67 dBm 1596450 GHz
M5 Spectr Ref Le Att SGL Cou 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -60 dBm-	1 vel 17.78 2 int 1000/10 x	9 Tx. Sp dBm Offse db swt	7683 GHz	-60.53 dBr NVNT 3-D RBW 100 kHz	m PH5 2441I 2 Mode Autr	D FFT	Ant1 Re	2.4411	4.67 dBm



SGL Count 10 91Pk Max	/10				MI	[1]			0.72 dBm
10 dBm 0 dBm					M2	2[1]		-5	0770 GHz 4.03 dBm 8341 GHz
-10 dBm									
-20 dBm-01	-15.328	dBm							
-30 dBm									
-40 dBm									
-50 dBm	M	M4	N	15				2	
-60 dBm			and the supervised of						
-70 asm									
Start 30.0 MF				30001	pts			Stop 2	25.0 GHz
Marker Type Ref	Tre	X-value	1	Y-value	Funct	ion	Funct	ion Result	
M1 M2	1	2.4407		-0.72 dBr -54.03 dBr	n		Func	Ion Result	
M3	1	4.88167	1 GHz	-57.14 dBr	n				
M4 M5	1	7.382833		-58.73 dBr -59.82 dBr					
Spectrum Ref Level 1 Att SGL Count 10 1Pk Max	7.60 dBm 20 dB		60 dB 👄	RBW 100 kHz VBW 300 kHz	: Mode A	uto FFT			.44 dBm
Ref Level 1 Att SGL Count 10	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1				
Ref Level 1 Att SGL Count 10 1Pk Max	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 P1Pk Max 10 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm -10 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm 0 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm -10 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 PIPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	2 2 Mode A M1	uto FFT			6.44 dBm
Ref Level 1 Att SGL Count 10 ID dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	Mode A	uto FFT		2.480159	6.44 dBm 1450 GHz
Ref Level 1 Att SGL Count 10 ID dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm	7.60 dBm 20 dB	Offset 7.	60 dB 👄	RBW 100 kHz	Mode A	uto FFT		2.480159	6.44 dBm



Ref Level	17.60 dB	m Offset 7.60 dB	🔵 RBW 100 kHz					
Att 🛛	20 d	IB SWT 250 ms	🔵 VBW 300 kHz	Mode A	uto Sweep	1		
SGL Count 1	.0/10							
⊖1Pk Max								1
				M1	[1]			2.25 dBm
10 dBm							2.4	79890 GHz
0 dBm				M	2[1]			53.12 dBm
U dBm							. 4.9	59910 GHz
-10 dBm								
tC	1 -13.55	8 dBm				1		
-20 dBm								
-30 dBm——								
-40 dBm								
io abiii								
-50 dBm —	1	MB						
		M ⁴	M5		and Managers	ملابق الدرج الاراد	14	
-60 dBm	مىلايىرا ^{لىرار} مالىرى	The second se	Company on the new particular the		A Marine	and the second product		
-70 dBm	and the state of the second	of photo and a start of the sta	and so the second s					
, o ubiii								
-80 dBm								
Start 30.0 M	1Hz		30001 p	ts			Stop	25.0 GHz
Marker								
Type Ref	Trc	X-value	Y-value	Funct	ion	Fund	tion Result	
M1	1	2.47989 GHz	2.25 dBm					
M2	1	4.95991 GHz	-53.12 dBm					
MЗ	1	4.95991 GHz	-53.12 dBm					
M4	1	7.46024 GHz	-59.51 dBm					
M5	1	10.064611 GHz	-59.56 dBm					

END OF REPORT