

FCC RADIO TEST REPORT FCC ID: 2AT9T-3278

Product: Mobile Phone

Trade Mark: ulefone

Model No.: GQ3278 Note 12P, Note 12, Note 12T, Note 12E, Note 12S,Note 12X, Note 12 Pro, Note 12 Lite, Note 12 Plus Report No.: STR210618002003E Issue Date: Jul 22. 2021

Prepared for

Shenzhen Ulefone Technology Co., Ltd.

7 A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen, 518110 China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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



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TEST RESULT

Complied



1 TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen Ulefone Technology Co., Ltd.		
Address:	7 A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen, 518110 China		
Manufacturer's Name:	Shenzhen Ulefone Technology Co., Ltd.		
Address:	7 A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen, 518110 China		
Product description			
Product name:	Mobile Phone		
Model and/or type reference:	GQ3278		
Family Model:	Note 12P, Note 12, Note 12T, Note 12E, Note 12S,		
	Note 12X, Note 12 Pro, Note 12 Lite, Note 12 Plus		

Measurement Procedure Used:

APPLICABLE STANDARDS

APPLICABLE STANDARD/ TEST PROCEDURE FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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

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

Date of Test	: Jun 18. 2021 ~ Jul 22. 2021	
		Krang. Hu
Testing Engineer	:	
		(Mary Hu)
		Ades
Authorized Signatory	:	(Alex Li)

NTEKJEW

2 SUMMARY OF TEST RESULTS

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

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

2. 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, Xixiang, Bao'an District Shenzhen, Guangdong, China

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

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

3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(>6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification					
Equipment	Mobile Phone				
Trade Mark	ulefone				
FCC ID	2AT9T-3278				
Model No.	GQ3278				
Family Model	Note 12P, Note 12, Note 12T, Note 12E, Note 12S, Note 12X, Note 12 Pro, Note 12 Lite, Note 12 Plus				
Model Difference	All models are the same circuit and RF module, except the Model name.				
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20);				
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;				
Number of Channels	11 channels for 802.11b/g/11n(HT20);				
Antenna Type	PIFA Antenna				
Antenna Gain	2.8 dBi				
Power supply	DC 3.85V/7700mAh from battery or DC 5V from Adapter.				
Adapter	Model: HJ-0502000W2-US Input: 100-240V~50/60Hz 0.3A Output: 5.0V2.0A				
HW Version	L632_V2.2				
SW Version	Note 12P_BH1_EEA_V01				

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

Revision History					
Report No.	Version	Description	Issued Date		
STR210618002003E	Rev.01	Initial issue of report	Jul 22, 2021		
	<u> </u>				



5 DESCRIPTION OF TEST MODES

TEK 北辺

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 (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0;) 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 Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n (HT20):

Channel	Frequency(MHz)
1	2412
2	2417
5	2432
6	2437
10	2457
11	2462

Note: fc=2412MHz+(k-1)×5MHz k=1 to 11

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





est Mode:		1		
Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
	11b/CCK	1 Mbps	1/6/11	1
Maximum Conducted Output Power	11g/BPSK	6 Mbps	1/6/11	1
Power	11n HT20	MCS0	1/6/11	1
Power Spectral Density	11b/CCK	1 Mbps	1/6/11	1
Tower Opectial Density	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
6dB Spectrum Bandwidth	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
Radiated Emissions Below 1GHz	Normal Link	-	-	-
		1		
Radiated Emissions Above	11b/CCK	1 Mbps	1/6/11	1
IGHZ	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
Band Edge Emissions	11b/CCK	1 Mbps	1/6/11	1
-	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1

ACCREDITED

Certificate #4298.01



r AC Conducted Emission Mode			AC PLUG		
EUT	C-1	AE-1 Adapter	<u> </u>		
C-2			-		
AE-2 Earphone					
Radiated Test Cases					
EUT					
r Conducted Test Cases					
Measurement C-3					
Instrument E	JI				
	anactor is se	oldered on the	PCB board in	n order to perfor	m condi



6.2 SUPPORT EQUIPMENT

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

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	HJ-0502000W2-US	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

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

Notes:

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



6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

adiatic		cot equipment					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2020.11.19	2021.11.18	1 year
9	Amplifier	EMC	EMC051835 SE	980246	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.11.19	2021.11.18	1 year
11	Power Meter	DARE	RPR3006W	15I00041SN 084	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2020.07.13 2021.07.01	2021.07.12 2022.06.30	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

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



AC Co	AC Conduction Test equipment						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

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

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

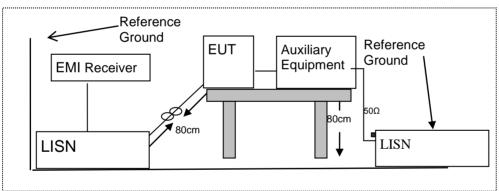
2. The lower limit shall apply at the transition frequencies

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

7.1.3 Measuring Instruments

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

7.1.4 Test Configuration



7.1.5 Test Procedure

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

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 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.



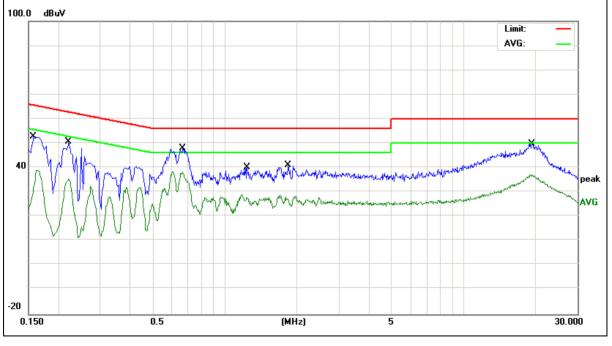
7.1.6 Test Results

EUT:	Mobile Phone	Model Name :	GQ3278
Temperature:	22 °C	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1580	43.10	9.71	52.81	65.56	-12.75	QP
0.1580	29.38	9.71	39.09	55.56	-16.47	AVG
0.2220	40.91	9.63	50.54	62.74	-12.20	QP
0.2220	25.85	9.63	35.48	52.74	-17.26	AVG
0.6660	38.16	9.72	47.88	56.00	-8.12	QP
0.6660	28.62	9.72	38.34	46.00	-7.66	AVG
1.2380	30.55	9.75	40.30	56.00	-15.70	QP
1.2380	19.19	9.75	28.94	46.00	-17.06	AVG
1.8460	31.25	9.76	41.01	56.00	-14.99	QP
1.8460	19.07	9.76	28.83	46.00	-17.17	AVG
19.2580	39.82	9.85	49.67	60.00	-10.33	QP
19.2580	27.20	9.85	37.05	50.00	-12.95	AVG

Remark:

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





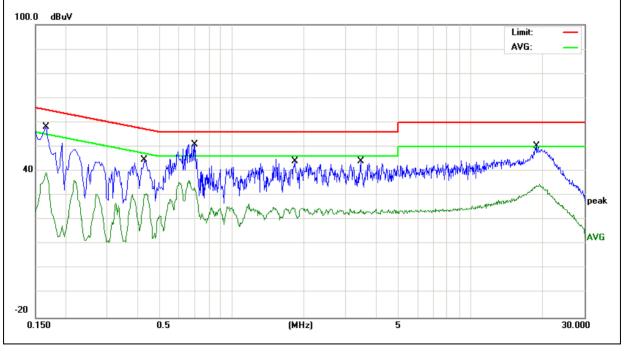
EUT:	Mobile Phone	Model Name :	GQ3278
Temperature:	22 °C	Relative Humidity:	57%
Pressure:	1010hPa	Phase :	Ν
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Normal Link

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	48.45	9.70	58.15	65.15	-7.00	QP
0.1660	29.85	9.70	39.55	55.15	-15.60	AVG
0.4300	34.95	9.64	44.59	57.25	-12.66	QP
0.4300	21.25	9.64	30.89	47.25	-16.36	AVG
0.6980	41.29	9.74	51.03	56.00	-4.97	QP
0.6980	26.50	9.74	36.24	46.00	-9.76	AVG
1.8300	34.37	9.76	44.13	56.00	-11.87	QP
1.8300	15.26	9.76	25.02	46.00	-20.98	AVG
3.4620	34.29	9.70	43.99	56.00	-12.01	QP
3.4620	14.98	9.70	24.68	46.00	-21.32	AVG
18.9300	40.46	9.85	50.31	60.00	-9.69	QP
18.9300	24.82	9.85	34.67	50.00	-15.33	AVG

Remark:

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

2. Factor = Insertion Loss + Cable Loss.





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

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

7.2.2 Conformance Limit

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

According to FCC Fait 15.205, Restricted bands			
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

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

3. For Frequency 9kHz~30MHz:

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

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

For Frequency above 30MHz:

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

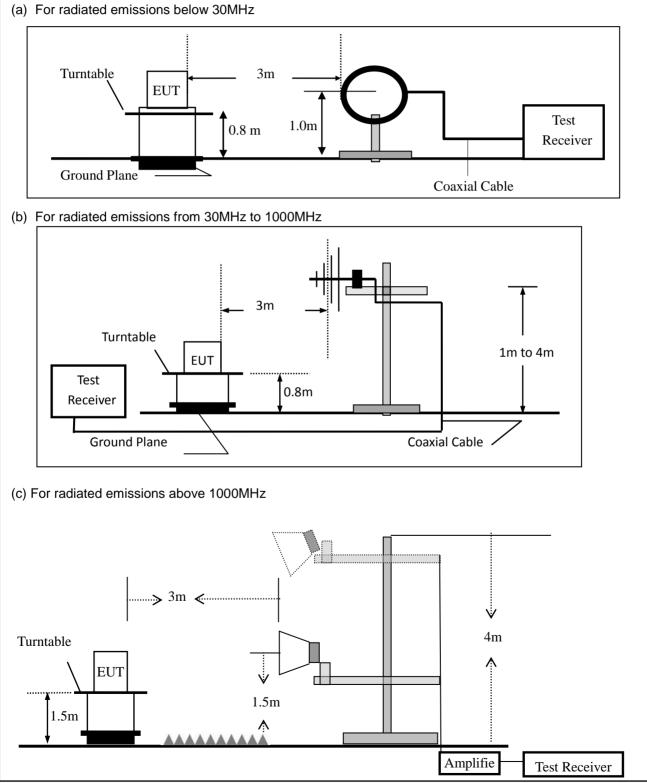
Limit line=Specific limits(dBuV) + distance extrapolation factor.



7.2.3 **Measuring Instruments**

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

7.2.4 **Test Configuration**





7.2.5 Test Procedure

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

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

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

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

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

g For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

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

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

Set RBW=120 kHz for f < 1 GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; Set RBW = 1 MHz, VBW= 3MHz for f≥1 GHz

For average measurement:

VBW = 10 Hz, when duty cycle is no less than 98 percent.

VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Mobile Phone	Model No.:	GQ3278
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20)	Test By:	Mary Hu

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

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



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

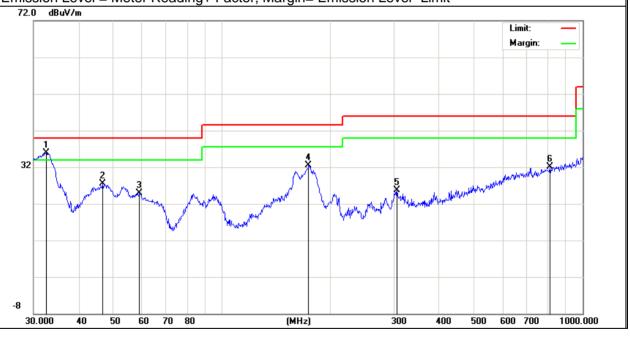
All the modulation modes have been tested, and the worst result was report as below:

EUT:	Mobile Phone	Model Name :	GQ3278
Temperature:	25 ℃	Relative Humidity:	55%
Pressure:	1010hPa	Test Mode:	Normal Link
Test Voltage :	DC 3.85V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	32.5198	18.97	17.00	35.97	40.00	-4.03	QP
V	46.6664	17.23	10.36	27.59	40.00	-12.41	QP
V	59.0251	19.28	5.67	24.95	40.00	-15.05	QP
V	173.8135	21.67	10.81	32.48	43.50	-11.02	QP
V	305.6800	10.44	15.18	25.62	46.00	-20.38	QP
V	810.2654	6.62	25.52	32.14	46.00	-13.86	QP

Remark:







Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	r torritari
Н	93.4402	16.41	10.35	26.76	43.50	-16.74	QP
Н	162.0414	16.12	12.01	28.13	43.50	-15.37	QP
Н	180.0165	19.95	10.55	30.50	43.50	-13.00	QP
Н	297.2241	12.96	15.01	27.97	46.00	-18.03	QP
Н	383.9318	13.18	17.65	30.83	46.00	-15.17	QP
Н	860.0352	6.29	26.36	32.65	46.00	-13.35	QP
	n Level = Meter Buv/m					Limit:	
72.0 d	lBu¥/m						
						Margin:	
					_		S. S. Markel
32	when when have the most	-	Warner Warner	M MAN	1 Mayor Martin	and provide the second second	top Derechter
				1Verm			



UT:	Μ	obile Ph	one		Mod	el No.:	GQ	3278	
emperature:	20) °C			Rela	ative Humidi	ty: 48%	, D	
Fest Mode:	8	02.11b/g	/n(HT20)		Tes	: By:	Mar	y Hu	
Il the modulati	on mode	s have b	een testeo	d, and the	worst res	ult was repo	rt as belo	ow:	
Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remar	k Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
			Low Chanr	nel (2412 N	1Hz)(802.1	b)Above 10	3		
4824.1218	70.93	5.21	35.59	44.30	67.43	74.00	-6.57	Pk	Vertical
4824.1218	50.41	5.21	35.59	44.30	46.91	54.00	-7.09	AV	Vertical
7326.2953	70.85	6.48	36.27	44.60	69.00	74.00	-5.00	Pk	Vertical
7326.2953	45.01	6.48	36.27	44.60	43.16	54.00	-10.84	AV	Vertical
4824.9993	70.14	5.21	35.55	44.30	66.60	74.00	-7.40	Pk	Horizontal
4824.9993	48.95	5.21	35.55	44.30	45.41	54.00	-8.59	AV	Horizontal
7326.2241	69.54	6.48	36.27	44.52	67.77	74.00	-6.23	Pk	Horizontal
7326.2241	7326.2241 48.87 6.48 36.27 44.52 47.10		54.00	-6.90	AV	Horizontal			
	1	N	/liddle Char	nnel (2437	MHz)(802.	1b)Above 1	G	1	
4874.6273	70.08	5.21	35.66	44.20	66.75	74.00	-7.25	Pk	Vertical
4874.6273	48.12	5.21	35.66	44.20	44.79	54.00	-9.21	AV	Vertical
7311.3687	68.65	7.10	36.50	44.43	67.82	74.00	-6.18	Pk	Vertical
7311.3687	50.69	7.10	36.50	44.43	49.86	54.00	-4.14	AV	Vertical
4874.7887	69.51	5.21	35.66	44.20	66.18	74.00	-7.82	Pk	Horizontal
4874.7887	49.41	5.21	35.66	44.20	46.08	54.00	-7.92	AV	Horizontal
7311.2476	70.73	7.10	36.50	44.43	69.90	74.00	-4.10	Pk	Horizontal
7311.2476	49.41	7.10	36.50	44.43	48.58	54.00	-5.42	AV	Horizontal
	Т	1	-	nel (2462 N	/Hz)(802.1	1b)Above 10	1	<u>г г</u>	
4924.0449	68.69	5.21	35.52	44.21	65.21	74.00	-8.79	Pk	Vertical
4924.0449	47.64	5.21	35.52	44.21	44.16	54.00	-9.84	AV	Vertical
7386.1184	70.15	7.10	36.53	44.60	69.18	74.00	-4.82	Pk	Vertical
7386.1184	46.56	7.10	36.53	44.60	45.59	54.00	-8.41	AV	Vertical
4924.6835	70.71	5.21	35.52	44.21	67.23	74.00	-6.77	Pk	Horizontal
4924.6835	50.49	5.21	35.52	44.21	47.01	54.00	-6.99	AV	Horizontal
7386.3296	70.91	7.10	36.53	44.60	69.94	74.00	-4.06	Pk	Horizontal
7386.3296	47.51	7.10	36.53	44.60	46.54	54.00	-7.46	AV	Horizontal

ACCREDITED

Certificate #4298.01

Note:

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

(2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

(3)"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.



■ Spurious Emission in Restricted Band 2310MHz -18000MHz All the modulation modes have been tested, and the worst result was report as below:

AII	the modulation modes have been tested, and the worst result was report as below:									
	Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
	(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
					8	02.11b				
	2310.00	70.24	2.97	27.80	43.80	57.21	74	-16.79	Pk	Horizontal
	2310.00	45.82	2.97	27.80	43.80	32.79	54	-21.21	AV	Horizontal
	2310.00	70.91	2.97	27.80	43.80	57.88	74	-16.12	Pk	Vertical
	2310.00	45.43	2.97	27.80	43.80	32.40	54	-21.60	AV	Vertical
	2390.00	69.35	3.14	27.21	43.80	55.90	74	-18.10	Pk	Vertical
Γ	2390.00	50.08	3.14	27.21	43.80	36.63	54	-17.37	AV	Vertical
Γ	2390.00	70.34	3.14	27.21	43.80	56.89	74	-17.11	Pk	Horizontal
	2390.00	48.69	3.14	27.21	43.80	35.24	54	-18.76	AV	Horizontal
	2483.50	68.35	3.58	27.70	44.00	55.63	74	-18.37	Pk	Vertical
	2483.50	47.02	3.58	27.70	44.00	34.30	54	-19.70	AV	Vertical
	2483.50	70.23	3.58	27.70	44.00	57.51	74	-16.49	Pk	Horizontal
	2483.50	48.81	3.58	27.70	44.00	36.09	54	-17.91	AV	Horizontal
					8	02.11g				
	2310.00	69.45	2.97	27.80	43.80	56.42	74	-17.58	Pk	Horizontal
	2310.00	46.96	2.97	27.80	43.80	33.93	54	-20.07	AV	Horizontal
ſ	2310.00	70.60	2.97	27.80	43.80	57.57	74	-16.43	Pk	Vertical
ſ	2310.00	45.80	2.97	27.80	43.80	32.77	54	-21.23	AV	Vertical
	2390.00	70.24	3.14	27.21	43.80	56.79	74	-17.21	Pk	Vertical
ſ	2390.00	45.94	3.14	27.21	43.80	32.49	54	-21.51	AV	Vertical
	2390.00	69.66	3.14	27.21	43.80	56.21	74	-17.79	Pk	Horizontal
ſ	2390.00	46.34	3.14	27.21	43.80	32.89	54	-21.11	AV	Horizontal
	2483.50	69.19	3.58	27.70	44.00	56.47	74	-17.53	Pk	Vertical
ſ	2483.50	49.19	3.58	27.70	44.00	36.47	54	-17.53	AV	Vertical
ſ	2483.50	70.02	3.58	27.70	44.00	57.30	74	-16.70	Pk	Horizontal
ſ	2483.50	50.21	3.58	27.70	44.00	37.49	54	-16.51	AV	Horizontal
ſ			1			2.11n20			1	
ſ	2310.00	68.73	2.97	27.80	43.80	55.70	74	-18.30	Pk	Horizontal
ſ	2310.00	48.03	2.97	27.80	43.80	35.00	54	-19.00	AV	Horizontal
ſ	2310.00	70.19	2.97	27.80	43.80	57.16	74	-16.84	Pk	Vertical
	2310.00	49.99	2.97	27.80	43.80	36.96	54	-17.04	AV	Vertical
F	2390.00	69.04	3.14	27.21	43.80	55.59	74	-18.41	Pk	Vertical
F	2390.00	45.09	3.14	27.21	43.80	31.64	54	-22.36	AV	Vertical
	2390.00	68.67	3.14	27.21	43.80	55.22	74	-18.78	Pk	Horizontal
ľ	2390.00	47.64	3.14	27.21	43.80	34.19	54	-19.81	AV	Horizontal
F	2483.50	68.91	3.58	27.70	44.00	56.19	74	-17.81	Pk	Vertical
╞	2483.50	46.89	3.58	27.70	44.00	34.17	54	-19.83	AV	Vertical
F	2483.50	69.91	3.58	27.70	44.00	57.19	74	-16.81	Pk	Horizontal
F	2483.50	46.21	3.58	27.70	44.00	33.49	54	-20.51	AV	Horizontal



Spurious Emission in Restricted Bands 3260MHz- 18000MHz

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

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
3260	70.69	4.04	29.57	44.70	59.60	74	-14.40	Pk	Vertical
3260	48.68	4.04	29.57	44.70	37.59	54	-16.41	AV	Vertical
3260	68.87	4.04	29.57	44.70	57.78	74	-16.22	Pk	Horizontal
3260	49.77	4.04	29.57	44.70	38.68	54	-15.32	AV	Horizontal
3332	70.96	4.26	29.87	44.40	60.69	74	-13.31	Pk	Vertical
3332	50.95	4.26	29.87	44.40	40.68	54	-13.32	AV	Vertical
3332	68.07	4.26	29.87	44.40	57.80	74	-16.20	Pk	Horizontal
3332	47.94	4.26	29.87	44.40	37.67	54	-16.33	AV	Horizontal
17797	56.67	10.99	43.95	43.50	68.11	74	-5.89	Pk	Vertical
17797	37.24	10.99	43.95	43.50	48.68	54	-5.32	AV	Vertical
17788	56.22	11.81	43.69	44.60	67.12	74	-6.88	Pk	Horizontal
17788	31.82	11.81	43.69	44.60	42.72	54	-11.28	AV	Horizontal

"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

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

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW = 100KHz VBW \ge 3*RBW Sweep = auto Detector function = peak Trace = max hold



7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	GQ3278
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Mary Hu

Test data reference attachment.





7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02 Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.

b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

1) Set the center frequency of the instrument to the center frequency of the transmission.

2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.

3) Set VBW \geq RBW. Set detector = peak or average.

4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T \leq 16.7 µs.)

Measure T_{total} and T_{on}

Calculate Duty Cycle = T_{on} / T_{total}

7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	GQ3278
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Mary Hu

Test data reference attachment.



7.5 MAXIMUM OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.2.3.

7.5.2 Conformance Limit

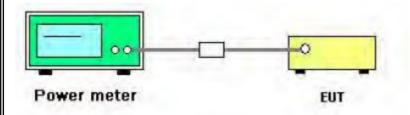
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be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

7.5.3 Measuring Instruments

The following table is the setting of the power meter.

Power meter parameter	Setting
Detector	РК

7.5.4 Test Setup



7.5.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.9.1.3 of ANSI C63.10

7.5.6 EUT operation during Test

The EUT was programmed to be in continuously transmitting mode.



7.5.7 Test Results

EUT:	Mobile Phone	Model No.:	GQ3278
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Mary Hu

Test data reference attachment.



7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

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

7.6.2 Conformance Limit

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

7.6.3 Measuring Instruments

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

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

d) Set the VBW \geq 3 *RBW.

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

i) Use the peak marker function to determine the maximum amplitude level within the RBW.

j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	GQ3278
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Mary Hu

Test data reference attachment.



7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

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

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

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

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

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

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

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

The EUT was operating in controlled its channel.

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

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

Repeat above procedures until all measured frequencies were complete.



7.7.6 Test Results

EUT:	Mobile Phone	Model No.:	GQ3278
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20	Test By:	Mary Hu

Test data reference attachment.



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

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

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

7.8.2 Measuring Instruments

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

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

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

7.8.5 Test Results

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

Test data reference attachment.



7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

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

7.9.2 Result

The EUT antenna is permanent attached PIFA Antenna (Gain: 2.8 dBi). It comply with the standard requirement.



8 TEST RESULTS

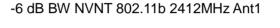
8.1 MAXIMUM CONDUCTED OUTPUT POWER

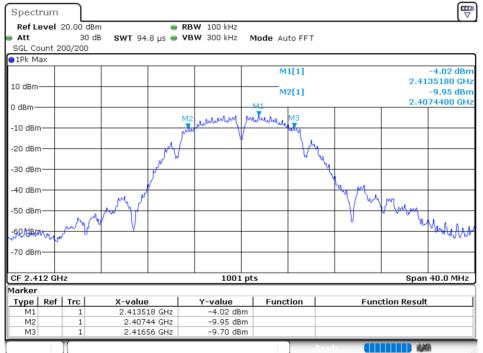
0.1						
Condition	Mode	Frequency	Antenna	Conducted Power	Limit	Verdict
		(MHz)		(dBm)	(dBm)	
NVNT	802.11b	2412	Ant 1	13.62	30	Pass
NVNT	802.11b	2437	Ant 1	13.72	30	Pass
NVNT	802.11b	2462	Ant 1	13.57	30	Pass
NVNT	802.11g	2412	Ant 1	12.7	30	Pass
NVNT	802.11g	2437	Ant 1	12.8	30	Pass
NVNT	802.11g	2456	Ant 1	12.85	30	Pass
NVNT	802.11n(HT20)	2412	Ant 1	12.62	30	Pass
NVNT NVNT NVNT	802.11n(HT20)	2437	Ant 1	12.58	30	Pass
NVNT	802.11n(HT20)	2462	Ant 1	12.67	30	Pass



8.2 OCCUPIED CHANNEL BANDWIDTH

8.2 00	CUPIED CHANNE					
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.11b	2412	Ant 1	9.12	0.5	Pass
NVNT	802.11b	2437	Ant 1	9.52	0.5	Pass
NVNT	802.11b	2462	Ant 1	9.28	0.5	Pass
NVNT	802.11g	2412	Ant 1	16.36	0.5	Pass
NVNT	802.11g	2437	Ant 1	15.72	0.5	Pass
NVNT	802.11g	2462	Ant 1	16.16	0.5	Pass
NVNT	802.11n(HT20)	2412	Ant 1	17.32	0.5	Pass
NVNT	802.11n(HT20)	2437	Ant 1	16.32	0.5	Pass
NVNT	802.11n(HT20)	2462	Ant 1	16.68	0.5	Pass





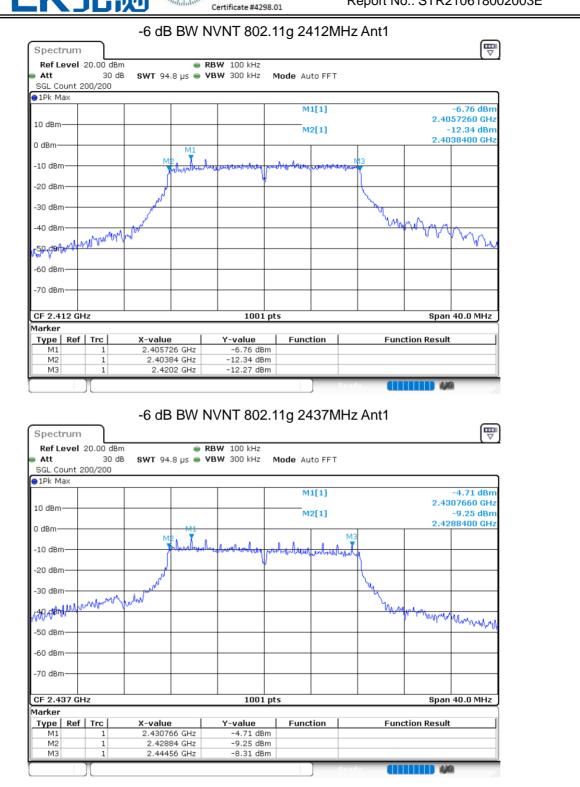






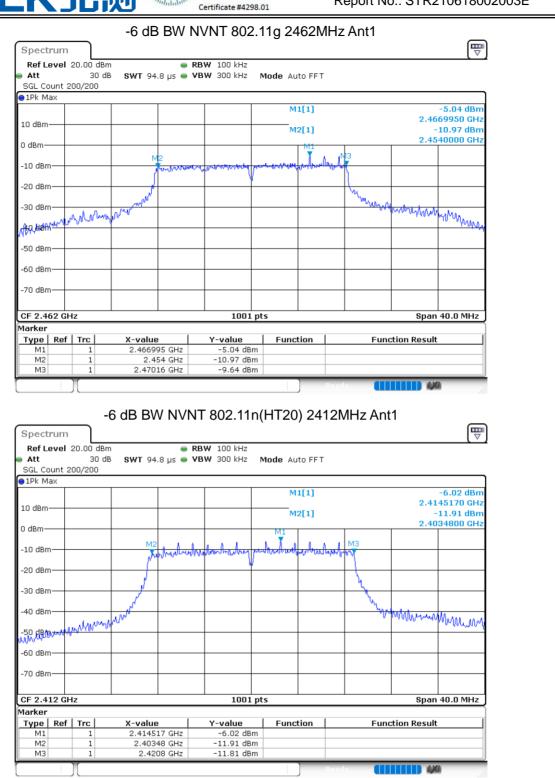
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Report No.: STR210618002003E



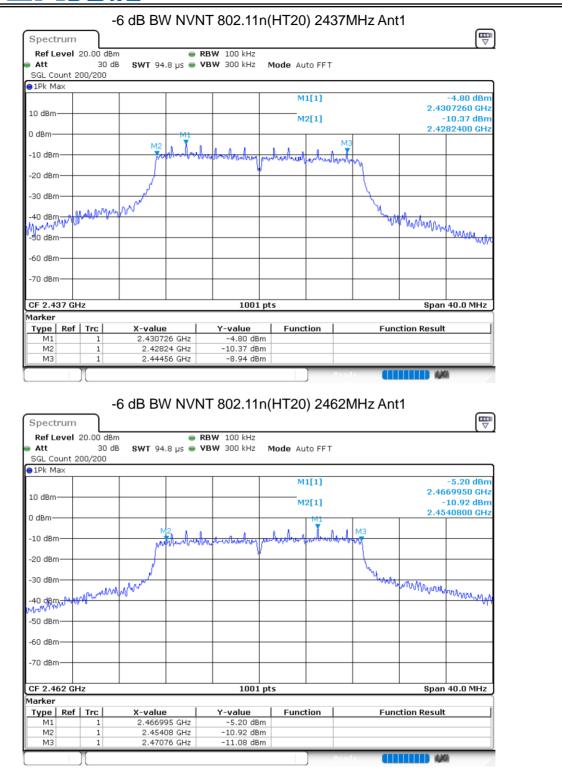


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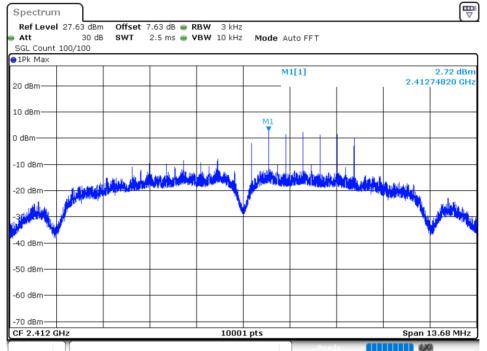




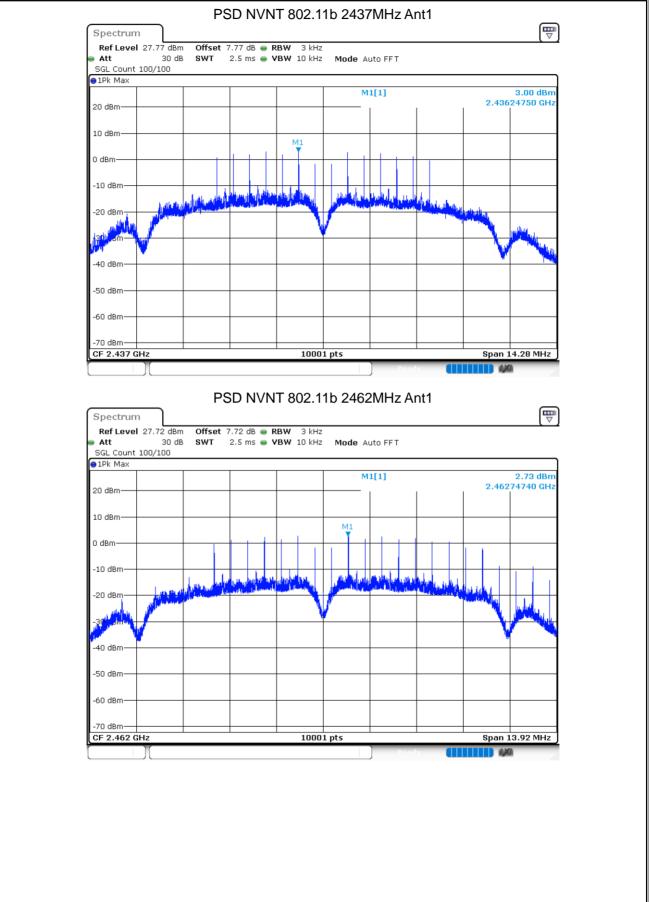
NTEK北测

8.3 M <i>A</i>	XIMUM POWER S	SPECTRAL DENS	SITY LEVEL			
Condition	Mode	Frequency	Antenna	Max PSD	Limit	Verdict
		(MHz)		(dBm/3kHz)	(dBm/3kHz)	
Condition NVNT NVNT NVNT NVNT NVNT NVNT NVNT NVN	802.11b	2412	Ant 1	2.72	8	Pass
NVNT	802.11b	2437	Ant 1	3.00	8	Pass
NVNT	802.11b	2462	Ant 1	2.73	8	Pass
NVNT	802.11g	2412	Ant 1	-12.00	8	Pass
NVNT	802.11g	2437	Ant 1	-12.55	8	Pass
NVNT	802.11g	2462	Ant 1	-12.38	8	Pass
NVNT	802.11n(HT20)	2412	Ant 1	-13.22	8	Pass
NVNT	802.11n(HT20)	2437	Ant 1	-13.1	8	Pass
NVNT	802.11n(HT20)	2462	Ant 1	-12.78	8	Pass





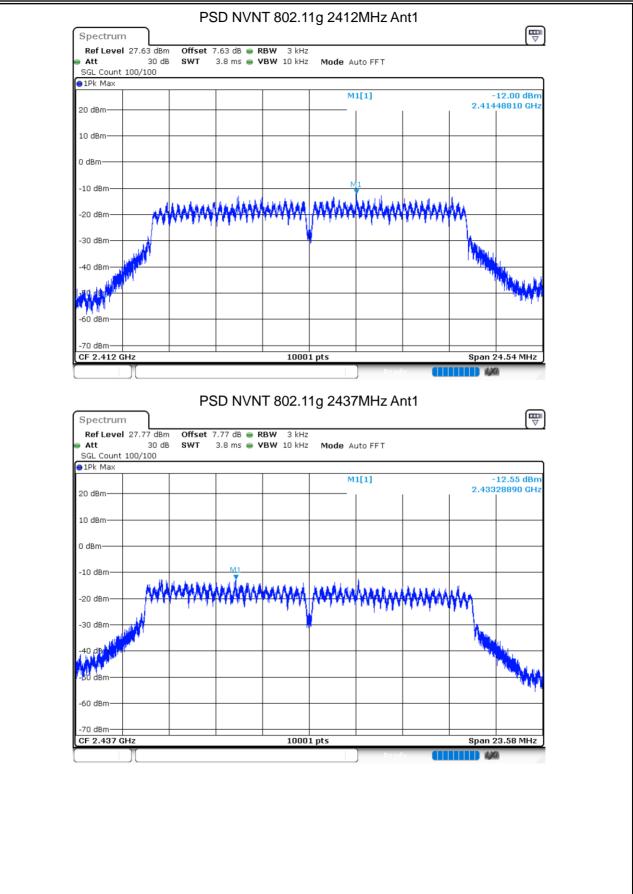




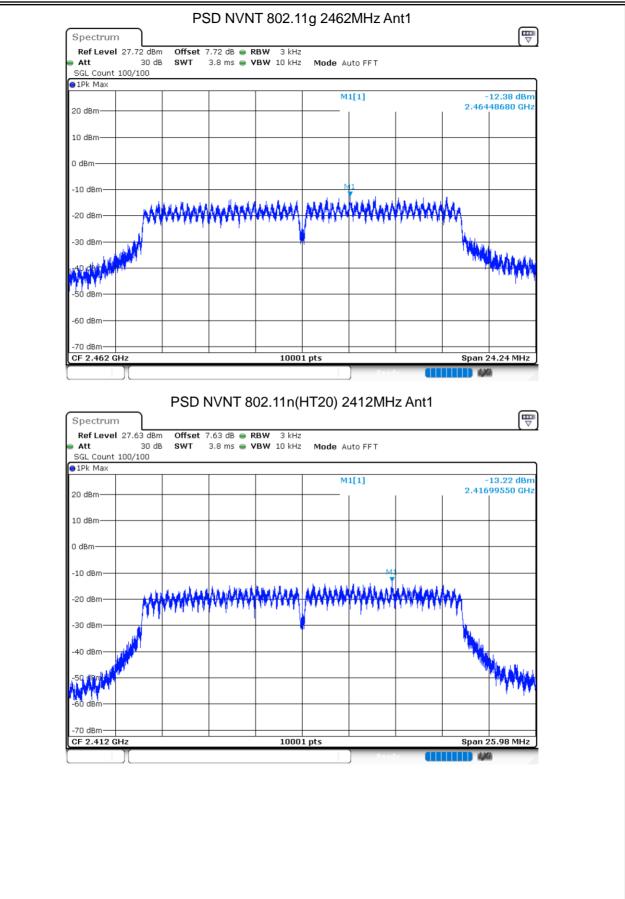
ACCREDITED

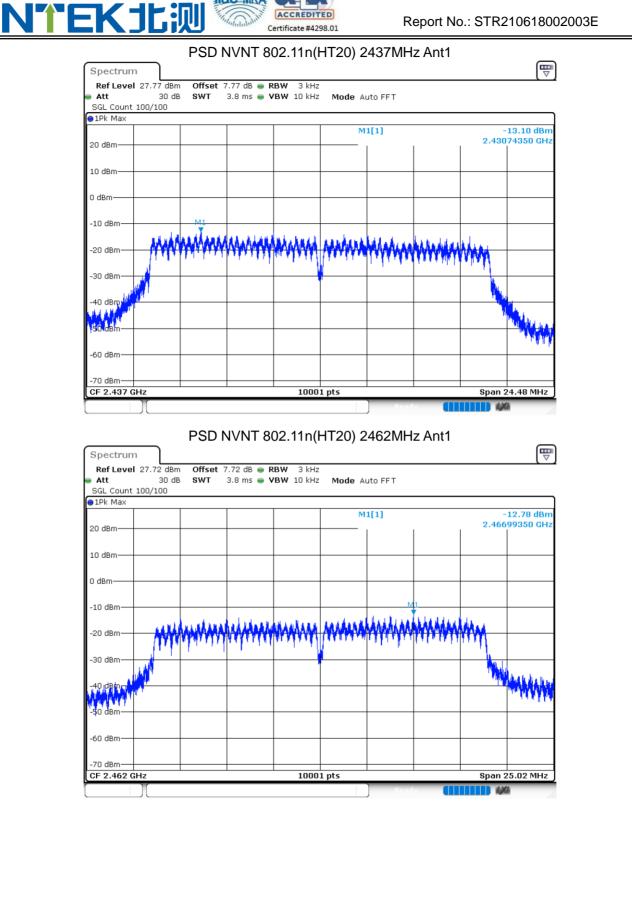
Certificate #4298.01











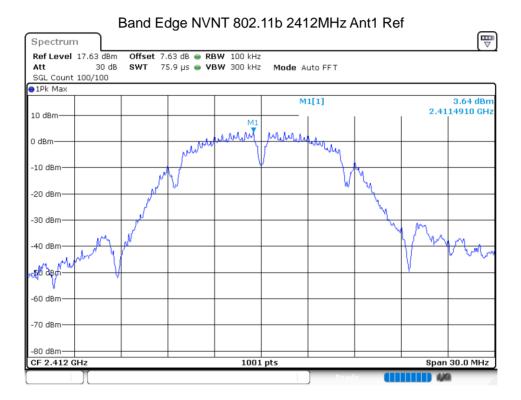
AC-MR



NTEK北测

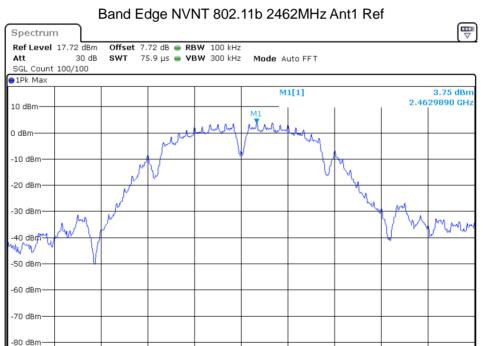
8.4 BAND EDGE

	0.4 07						
l	Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
l	NVNT	802.11b	2412	Ant 1	-54.87	-20	Pass
	NVNT	802.11b	2462	Ant 1	-52.85	-20	Pass
I	NVNT	802.11g	2412	Ant 1	-43.82	-20	Pass
I	NVNT	802.11g	2462	Ant 1	-31.84	-20	Pass
I	NVNT	802.11n(HT20)	2412	Ant 1	-47.76	-20	Pass
	NVNT	802.11n(HT20)	2462	Ant 1	-32.01	-20	Pass





pectrum					
ef Level 17.63 dBm Offset 7	.63 dB 😑	RBW 100 kHz			
	7.5 µs 😑	VBW 300 kHz	Mode Auto FF	т	
GL Count 100/100					
IPk Max					
			M1[1]		3.46 dBm
) dBm			MOLT	N	A1 2.4114700 GHz
dBm			M2[1]	apple.	-44.44 dBm 2.400000 GHz
			1	1 M ²	12.100000 0112
0 dBm					
D1 -16.356 dBm				,/\	
					1
0 dBm					1
					YAM
0 dBm		+		- M2/	
M ⁴				1 N 1	Y
O dBm		the star of a	And tak direction	Nhul .	
oden	mapping	and the second	however to the state and	v w	
0 dBm		+			
0 dBm		1001 pt:			Stop 2.427 GHz
urker		1001 pt.	3		5(0p 2.427 GHz
ype Ref Trc X-value	1	Y-value	Function	Function	Posult
M1 1 2.4114	7 GHz	3.46 dBm	- unction	i unction	Nosalt
	4 GHz	-44.44 dBm			
M3 1 2.3	9 GHz	-54.49 dBm			
M4 1 2.336	6 GHz	-51.24 dBm			



1001 pts

CF 2.462 GHz

Span 30.0 MHz

100

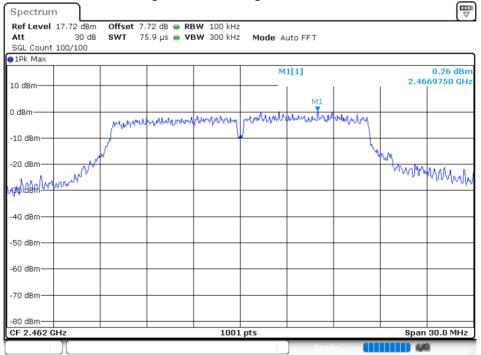


Spectrum	and Edge	-	-					
Ref Level 17.72 dB			RBW 100 kHz					
Att 30 0 SGL Count 100/100	18 SWT 22	27.5 µs 👄 🎙	/BW 300 kHz	Z Mode A	uto FFT			
1Pk Max								
LO dBm				M	l[1]		0.44	3.64 dBm
				M2	2[1]			i30300 GHz ·49.11 dBm
) dBm	ALAN .				-	1		35000 GHz
10 dBm	-							
20 dBm	48 dBm							
	١٤.							
30 dBm	Myru	n						
40 dBm	1 1 1 1 1	4						
50 dBm		Ma		мэ				
60 d0m		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	have galorigh	hutannulli	whileworksteres	arkindund	al-Montowald	mr. Uniter with
60 dBm								
70 dBm								
80 dBm								
Start 2.447 GHz Jarker			1001	pts			Stop	2.547 GHz
arker Type Ref Trc	X-value		Y-value	Funct	ion	Fund	tion Resul	:
M1 1 M2 1		03 GHz	3.64 dBr -49.11 dBr					
M3 1		35 GHz 2.5 GHz	-49.11 dBr -55.01 dBr					
M4 1	2.48	35 GHz	-49.11 dBr	m				
	Band Ed	dge NVI	NT 802. ²	11g 241	2MHz /	Ant1 Re	f	
Ref Level 17.63 dB	m Offset 7.	.63 dB 🔵 RI	NT 802. BW 100 kHz BW 300 kHz			Ant1 Re	f	(The second seco
Ref Level 17.63 dB Att 30 d SGL Count 100/100	m Offset 7.	.63 dB 🔵 RI	BW 100 kHz			Ant1 Re	f	E Constantino de la constant
Ref Level 17.63 dB Att 30 d SGL Count 100/100	m Offset 7.	.63 dB 🔵 RI	BW 100 kHz	Mode Au	uto FFT	Ant1 Re	f	
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7.	.63 dB 🔵 RI	BW 100 kHz	Mode Au		Ant1 Re		-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7.	.63 dB 🔵 RI	BW 100 kHz BW 300 kHz	Mode Au	uto FFT	Ant1 Re		-1.47 dBm
Ref Level 17.63 dB Att 30 d SGL Count 100/100 11Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au	uto FFT			-1.47 dBm
Ref Level 17.63 dB Att 30 d SGL Count 100/100 PIPk Max	m Offset 7. IB SWT 7:	.63 dB 🔵 RI	BW 100 kHz BW 300 kHz	Mode Au	uto FFT			-1.47 dBm
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT			-1.47 dBm
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT			-1.47 dBm
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
SGL Count 100/100 1Pk Max 10 dBm 10 dBm 20 dBm 10 dBm	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 IPk Max 10 0 dBm 10 dBm 20 dBm 30 dBm 30 dBm 30 dBm	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 PPK Max 10 0 dBm 10 dBm 10 dBm 20 dBm	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 11Pk Max 10 0 dBm 10 10 dBm 10 20 dBm 10 30 dBm 10 50 dBm 10	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au Mi	uto FFT		2.4:	-1.47 dBm 13710 GHz
Ref Level 17.63 dB Att 30 d SGL Count 100/100 1Pk Max 0 0 dBm 0 10 dBm 0 20 dBm 0 30 dBm 0 30 dBm 0 50 dBm 0 50 dBm 0 60 dBm 0	m Offset 7. IB SWT 7:	63 dB 👄 Rt 5.9 µs 👄 VI	BW 100 kHz BW 300 kHz	Mode Au	uto FFT		2.43	-1.47 dBm 13710 GHz



Spectrum						
Ref Level			🔵 RBW 100 kHz			
Att	30		🔵 VBW 300 kHz	Mode Auto FF	Τ	
SGL Count	100/100					
●1Pk Max						
				M1[1]		1.81 dBm
10 dBm						2.4144600 GHz
0 dBm				M2[1]		🚽 -36.45 dBm
					of manufactures	
-10 dBm-						
						- Li
-20 dBm	D1 -21.4	171 dBm			/	Y
						<u> </u>
-30 dBm					M2	104 MA
10.15					M21	* U
-40 dBm				Mª A	N/M M	
-50 dBm				A DIANA	· ·	
a section of	alphane	four manufacture market	Martines and the MAMO	way MAY		
60 dBm		1041.0. 2000	distal and a final sector of the sec			
-70 dBm —						
-80 dBm			1001	-		Oten 0 407 CU-
	GHZ		1001 pt	5		Stop 2.427 GHz
Marker			1			
Type Ref	f Trc	X-value	Y-value	Function	Functio	on Result
	1	2.41446 GHz				
M1	1	2.4 GHz 2.39 GHz				
M2			-48.77 dBm			
	1	2.39 GHz 2.3899 GHz				







●1Pk Max	1		55+5+3			1.00 db
10 dBm			M1[1]		2.46	1.92 dBm 32300 GHz
0 dBm	t ht t		M2[1]			31.59 dBm 35000 GHz
-10 dBm						
-20 dBm D1 -19.73						
which	Man Man M	2				
-30 dBm	CANN N	n.				
-40 dBm		2 Mytrolyter				
-50 dBm		- Junit	M3 Walk Mally Marcaller	John Martin marker ano	only only on the	the the tenders
-60 dBm			A. Manager and	and the descent		Mu destas of
-70 dBm						
-80 dBm	<u> </u>					
Start 2.447 GHz Marker		1001 p	ots		Stop	2.547 GHz
Type Ref Trc	X-value	Y-value	Function	Fund	tion Result	
M1 1	2.46323 GHz 2.4835 GHz	1.92 dBm -31.59 dBm				
M2 1						
M2 1 M3 1 M4 1	2.5 GHz 2.4835 GHz	-52.90 dBm -31.59 dBm		ady 🚺		1
M3 1 M4 1 Ba Spectrum Ref Level 17.63 dBr	2.4835 GHz nd Edge NVN m Offset 7.63 dB	-31.59 dBm T 802.11n(ł RBW 100 kHz	HT20) 2412N	MHz Ant1	Ref	
M3 1 M4 1 Ba Spectrum	2.4835 GHz nd Edge NVN m Offset 7.63 dB	-31.59 dBm T 802.11n(ł	Re	MHz Ant1	Ref	
M3 1 M4 1 Ba Spectrum Ref Level 17.63 dBr Att 30 d SGL Count 100/100	2.4835 GHz nd Edge NVN m Offset 7.63 dB	-31.59 dBm T 802.11n(ł RBW 100 kHz	HT20) 2412N	MHz Ant1		.60 dBm 44880 GHz
M3 1 M4 1 M4 1 Ba Spectrum Ref Level 17.63 dBr Att 30 d SGL Count 100/100 1Pk Max	2.4835 GHz nd Edge NVN m Offset 7.63 dB	-31.59 dBm T 802.11n(ł RBW 100 kHz	HT20) 2412N Mode Auto FFT	MHz Ant1		1.60 dBm
M3 1 M4 1 M4 1 Ba Spectrum Ref Level 17.63 dBr Att 30 d SGL Count 100/100 1Pk Max	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT			1.60 dBm
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 IPk Max 10 dBm	2.4835 GHz nd Edge NVN m Offset 7.63 dB	-31.59 dBm	HT20) 2412N Mode Auto FFT M1[1]			1.60 dBm
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 •1Pk Max 10 dBm 10 dBm -10 dBm	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT			1.60 dBm
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 • 1Pk Max 10 dBm 0 dBm 0	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT			1.60 dBm
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 •1Pk Max 10 dBm 10 dBm -10 dBm	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT		2.41	1.60 dBm 44880 GHz
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 •1Pk Max 10 dBm 10 dBm - -10 dBm - -20 dBm -	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT		2.41	1.60 dBm 44880 GHz
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 •1Pk Max 10 dBm 10 dBm - -10 dBm - -20 dBm -	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT		2.41	1.60 dBm
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 •1Pk Max 10 dBm 10 dBm - -10 dBm - -20 dBm -	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT		2.41	1.60 dBm 44880 GHz
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 ● 1Pk Max 10 dBm -0 -10 dBm -0 -20 dBm -0 -30 dBm -0 -50 dBm -50 dBm	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT		2.41	1.60 dBm 44880 GHz
M3 1 M4 1 M4 1 Ba Spectrum Ba Ref Level 17.63 dBr Att 30 d SGL Count 100/100 IN Max 10 dBm 0 dBm	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT		2.41	1.60 dBm 44880 GHz
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 ● 1Pk Max 10 dBm -0 -10 dBm -0 -20 dBm -0 -30 dBm -0 -50 dBm -50 dBm	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT		2.41	1.60 dBm 44880 GHz
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 ● 1Pk Max 10 10 dBm -0 -10 dBm -0 -20 dBm -0 -30 dBm -0 -50 dBm -0 -70 dBm -70 dBm	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT		2.41	1.60 dBm 44880 GHz
M3 1 M4 1 M4 1 Ref Level 17.63 dBr Att 30 d SGL Count 100/100 ● 1Pk Max 10 dBm -0 -10 dBm -0 -20 dBm -0 -30 dBm -0 -50 dBm -60 dBm	2.4835 GHz nd Edge NVN m Offset 7.63 dB • B swT 75.9 μs •	-31.59 dBm	HT20) 2412N Mode Auto FFT M1[1] M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1		2.41	1.60 dBm 44880 GHz



Att SGL Count 10	.63 dBm 30 dB 0/100			RBW 100 kHz VBW 300 kHz	Mode 4	Auto FFT			
●1Pk Max					M	1[1]			0.74 dBm
10 dBm						2[1]		2.4 M1	094700 GHz -38.47 dBm
0 dBm							المراجع ا	hole have been and the	00000 GHz
-10 dBm								Ų.	
-20 dBm 01	-18.395 (dBm 					+ {		
-30 dBm							Ma		Morten
-40 dBm						MAI3 Walker	upton h		
-50 dBm	Hereberth I.		ي ا يا ي	womentower	un antilla	poly and the second			
-60 dBm	ame on MARA	and the second	MAINAUUU	willim bull when the	(Hurnhan				
-70 dBm									
-80 dBm									
Start 2.327 G Marker	Hz			1001 p	ots			Stop	2.427 GHz
Type Ref	Trc 1	X-value	47 GHz	Y-value 0.74 dBm	Funct	tion	Fur	nction Resu	lt
M2	1	2	.4 GHz 39 GHz	-38.47 dBm -47.85 dBm					
M3									
M4 Spectrum		2.388 d Edge	NVNT	-46.16 dBm) Pr 24621	otv 🚺 MHz Anti	1 Ref	X4
M4	Band	2.388 d Edge Offset 7.	86 GHZ NVNT 72 dB •	-46.16 dBm	HT20) Mode At	uto FFT	MHz Ant	1 Ref	
M4 Spectrum Ref Level 17 Att SGL Count 10	Band	2.388 d Edge Offset 7.	86 GHZ NVNT 72 dB •	-46.16 dBm	HT20) Mode At		MHz Ant		-0.93 dBm 676040 GHz
M4 Spectrum Ref Level 17 Att SGL Count 10 • 1Pk Max	1 Band .72 dBm 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode At	uto FFT 1[1]	M1	2.4	-0.93 dBm
M4 Spectrum Ref Level 17 Att SGL Count 10 • 1Pk Max 10 dBm	1 Band .72 dBm 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm
M4 Spectrum Ref Level 17 Att SGL Count 10 • 1Pk Max 10 dBm - 10 dBm - 10 dBm	1 Band 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm 676040 GHz
M4 Spectrum Ref Level 17 Att SGL Count 10 • 1Pk Max 10 dBm - 10 dBm - 10 dBm	1 Band 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm 676040 GHz
M4 Spectrum Ref Level 17 Att SGL Count 10 • 1Pk Max 10 dBm - 10 dBm - 10 dBm	1 Band 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm
M4 Spectrum Ref Level 17 Att SGL Count 10 • 1Pk Max 10 dBm - 10 dBm - 10 dBm	1 Band 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm 676040 GHz
M4 Spectrum Ref Level 17 Att SGL Count 10 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	1 Band 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm 676040 GHz
M4 Spectrum Ref Level 17 Att SGL Count 10 9 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	1 Band 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm 676040 GHz
M4 Spectrum Ref Level 17 Att SGL Count 10 P1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -50 dBm	1 Band 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm 676040 GHz
M4 Spectrum Ref Level 17 Att SGL Count 10 ● 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -50 dBm -60 dBm	1 Band 30 dB 0/100	2.386 d Edge Offset 7. swr 75	36 GHz NVNT 72 dB 5.9 μs	-46.16 dBm	HT20) Mode Au	uto FFT 1[1]	M1	2.4	-0.93 dBm 676040 GHz



Spectrum						•				
Ref Level 1 Att SGL Count 1	30 dB			 RBW 100 kł VBW 300 kł 		lode /	Auto FFT			
1Pk Max										
						M	1[1]			0.73 dBm
10 dBm					+		_			94300 GHz
0 dBm		M1				M:	2[1]			32.95 dBm
บนอก	horney production	hunny						1	2.48	35000 GHz
-10 dBm					—					
-20 dBm	01 -20.933	dBm Villeter			+					
dBm		"Netwo	Uncere Mi	a						
90 dBm			N UN		<u> </u>					
-40 dBm			* '00	Web.						
to abili				Tutor a						
-50 dBm				www.lay	M3					
					man	whethere a	with more thank	horderund	www.waterothe	www.
-60 dBm					+					
-70 dBm										
-70 uBm										
-80 dBm					<u> </u>					
Start 2.447	GHz			100	1 pts				Stop 2	2.547 GHz
Marker										
Type Ref	Trc	X-value		Y-value		Funct	tion	Fun	ction Result	1
M1	1	2.4694	13 GHz	0.73 d	Bm					
M2	1		35 GHz	-32.95 d						
M3	1		.5 GHz	-54.10 d						
M4	1	2.483	35 GHz	-32.95 d	8m					



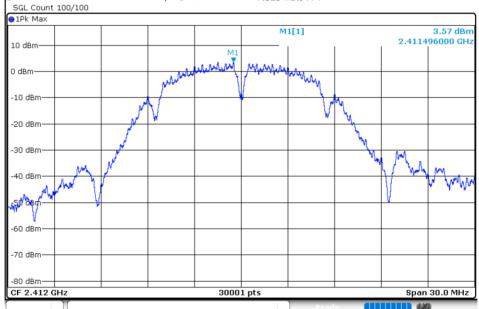
NTEK北测

Att

8.5 CONDUCTED RF SPURIOUS EMISSION

0.0						
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11b	2412	Ant 1	-48.26	-20	Pass
NVNT	802.11b	2437	Ant 1	-44.54	-20	Pass
NVNT	802.11b	2462	Ant 1	-45.03	-20	Pass
NVNT	802.11g	2412	Ant 1	-41.73	-20	Pass
NVNT	802.11g	2437	Ant 1	-45.84	-20	Pass
NVNT	802.11g	2462	Ant 1	-45.26	-20	Pass
NVNT	802.11n(HT20)	2412	Ant 1	-39.42	-20	Pass
NVNT	802.11n(HT20)	2437	Ant 1	-47.61	-20	Pass
NVNT	802.11n(HT20)	2462	Ant 1	-47.82	-20	Pass







Ref Level 17.63 dB	m Offect 7	63 d¤ 🖛	RBW 100 kH	7				□
att 30 a			VBW 300 kH		Auto Sweep	1		
GL Count 10/10								
LPk Max								
) dBm				м	1[1]			3.32 dBm
				м	2[1]			14140 GHz -44.70 dBm
dBm								349481 GHz
) dBm								
D1 -16.43	30 dBm							
J UBIII								
0 dBm	+							
) dBml2								
Υ I	M4	MS	5		المحمل والمربية والمتعرين ال	المعديد ومراها		
) dBm		111 ¹¹ - 11100 - 11100		ين المراجع (المحمولية). ويتحمو المراجع الم	and the second second	A second stands	n States and Street and	and in the second s
o dem								
0 dBm								
, uom								
							-	
art 30.0 MHz Irker			3000	1 pts			Stop	25.0 GHz
rker /pe Ref Trc	X-value	. 1	Y-value	Func	tion	Eun	ction Result	•
M1 1		14 GHz	3.32 dB			1 411	cton (cour	
M2 1	1.84948		-44.70 dB					
M3 1	4.82340		-45.82 dB					
M4 1 M5 1	7.05239		-49.69 dB -50.21 dB					
	5101101		00121 00					
					Read	iv 🛄) #	a
Ref Level 17.77 dB		7.77 dB 😑	RBW 100 kH	z		Ant1 R	ef	
pectrum Ref Level 17.77 dB Att 30 d	m Offset 7	7.77 dB 😑		z] Prod 37MHz Auto FFT	Ant1 R	ef	
Dectrum Ref Level 17.77 dB Att 30 d GL Count 100/100	m Offset 7	7.77 dB 😑	RBW 100 kH	z		Ant1 R	ef	Ø (₩ ▽
pectrum Ref Level 17.77 dB Att 30 d GL Count 100/100	m Offset 7	7.77 dB 😑	RBW 100 kH	z z Mode		Ant1 R		4.00 dBm
Ref Level 17.77 dB Att 30 d GL Count 100/100 Pk Max	m Offset 7	7.77 dB 😑	RBW 100 kH VBW 300 kH	z z Mode	Auto FFT	Ant1 R		
eectrum tef Level 17.77 dB tt 30 d SL Count 100/100 Pk Max	m Offset 7	7.77 dB 😑	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R		4.00 dBm
pectrum Ref Level 17.77 dB	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R		4.00 dBm
Ref Level 17.77 dB Att 30 d SL Count 100/100 Pk Max dBm	m Offset 7	7.77 dB 😑	RBW 100 kH VBW 300 kH	z z Mode	Auto FFT 1[1]	Ant1 R		4.00 dBm
dectrum tef Level 17.77 dB tt 30 d SL Count 100/100 Pk Max dBm IBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R		4.00 dBm
dectrum	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R		4.00 dBm
dectrum tef Level 17.77 dB tt 30 o SL Count 100/100 Pk Max dBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R		4.00 dBm
eectrum ef Level 17.77 dB tt 30 d SL Count 100/100 Pk Max dBm Bm dBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R		4.00 dBm
ectrum ef Level 17.77 dB tt 30 d L Count 100/100 % Max dBm dBm dBm dBm dBm dBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R	2.4354	4.00 dBm
beectrum tef Level 17.77 dB tt 30 d SL Count 100/100 Pk Max	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R		4.00 dBm
beectrum lef Level 17.77 dB std 30 d SL Count 100/100 Pk Max	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R	2.4354	4.00 dBm
eectrum ef Level 17.77 dB tt 30 d SL Count 100/100 Pk Max	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R	2.4354	4.00 dBm
ectrum af Level 17.77 dB tt 30 d L Count 100/100 k Max JBm JBm dBm dBm dBm dBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R	2.4354	4.00 dBm
ectrum ef Level 17.77 dB tt 30 d L Count 100/100 k Max dBm dBm dBm dBm dBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R	2.4354	4.00 dBm
ectrum af Level 17.77 dB tt 30 d L Count 100/100 k Max JBm dBm dBm dBm dBm dBm dBm dBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R	2.4354	4.00 dBm 195100 GHz
ctrum f Level 17.77 dB 30 d Count 100/100 Max 3m 3m 18m IBm IBm IBm IBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R	2.4354	4.00 dBm
dBm	m Offset 7	77 dB ● 5.9 μs ●	RBW 100 kH VBW 300 kH	z Mode . Mode .	Auto FFT 1[1]	Ant1 R	2.4354	4.00 dBm

30001 pts

-80 dBm-

CF 2.437 GHz

Span 30.0 MHz

14.00



Ref Level 17.77 dBn		RBW 100 kHz				
Att 30 dB GL Count 10/10	B SWT 250 ms	🔵 VBW 300 kHz	Mode Auto Swee	р		
LPk Max						
			M1[1]		3.89	dBm
) dBm m					2.438280	
dBm			M2[1]		-40.54	
.0			I	1	1.909409	9 GHz
0 dBm						
0 dBm D1 -15.999	9 dBm					
o dou						
) dBm M2						
) dBm	3					
) dBm	M4	Ma	ومعالية فالمأخ فأحلكم والمادي فعيده	والمحصوص فساريش فا	Sector Supervised and States	وليد وقيره
Contraction of the second states and the second s		Harrison (1995) His and a stand of the stand	and a set of the set of the set	and a first state of the	The state of the state of the state	NATURE ARE
dBm						
0 dBm						
art 30.0 MHz		30001 pt	5		Stop 25.0	GHz
rker			-			
/pe Ref Trc	X-value	Y-value	Function	Fund	tion Result	
M1 1	2.43828 GHz	3.89 dBm				
M2 1 M3 1	1.909409 GHz 4.87418 GHz	-40.54 dBm -46.20 dBm				
M4 1	7.370348 GHz	-49.06 dBm				
M5 1	9.930605 GHz	-49.38 dBm				
				idv 🚺		
Ref Level 17.72 dBn Att 30 df	n Offset 7.72 dB	NVNT 802.11 • RBW 100 kHz • VBW 300 kHz	b 2462MHz	z Ant1 Re	ef	
pectrum Ref Level 17.72 dBn	n Offset 7.72 dB	e RBW 100 kHz		2 Ant1 Re	əf	
pectrum Ref Level 17.72 dBm Att 30 dB GL Count 100/100	n Offset 7.72 dB	e RBW 100 kHz		z Ant1 Re	3.95	dBm
Ref Level 17.72 dBn Att 30 dB GL Count 100/100 .Pk Max	n Offset 7.72 dB	e RBW 100 kHz	Mode Auto FFT	2 Ant1 Re		dBm
pectrum Ref Level 17.72 dBm Att 30 dB GL Count 100/100	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT 	z Ant1 Re	3.95	dBm
dectrum tef Level 17.72 dBn ttt 30 df GL Count 100/100 Pk Max dBm	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	z Ant1 Re	3.95	dBm
Ref Level 17.72 dBn Att 30 dB GL Count 100/100 .Pk Max	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT 	z Ant1 Re	3.95	dBm
Ref Level 17.72 dBn Att 30 df SL Count 100/100 Pk Max dBm	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	z Ant1 Re	3.95	dBm
Ref Level 17.72 dBn Att 30 df GL Count 100/100 Pk Max dBm	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	2 Ant1 Re	3.95	dBm
Dectrum Ref Level 17.72 dBn Kt 30 df GL Count 100/100 Pk Max dBm	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	2 Ant1 Re	3.95	dBm
Dectrum Ref Level 17.72 dBn Att 30 dB SL Count 100/100 Pk Max	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	2 Ant1 Re	3.95	dBm
ectrum ef Level 17.72 dBn tt 30 dB SL Count 100/100 Pk Max dBm Bm dBm	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	2 Ant1 Re	3.95	dBm
ectrum ef Level 17.72 dBn tt 30 dB L Count 100/100 k Max dBm	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	2 Ant1 Re	3.95	dBm
ectrum af Level 17.72 dBn L Count 100/100 k Max JBm dBm dBm dBm	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	2 Ant1 Re	3.95	dBm
ectrum f Level 17.72 dBn t 30 df . Count 100/100 < Max Bm dBm dBm dBm	n Offset 7.72 dB B SWT 75.9 μs	RBW 100 kHz VBW 300 kHz	Mode Auto FFT	2 Ant1 Re	3.95	dBm

30001 pts

-50 dBm

-60 dBm--70 dBm--80 dBm-

CF 2.462 GHz

Span 30.0 MHz

140



Att SGL Count 10/1	30 dB 🛛 S		 RBW 100 kHz VBW 300 kHz 	Mode Auto S	Sweep		
●1Pk Max	1	1					0.70.47
10 dBm				M1[1]		2.	3.73 dBm 461580 GHz
0 dBm				M2[1]			-41.09 dBm
				1	1	1.	849481 GHz
-10 dBm D1 -	-16.052_dBm						
-20 dBm							
-30 dBm M2							
-40 dBm	MB	M4	M5				
-50 dBm	-			A STATE OF THE STATE OF THE STATE		All Anderson State	
-60 dBm	and successfully a second		seconds from the second second				
-70 dBm							
Start 30.0 MHz			30001	pts		Sto	p 25.0 GHz
Marker Type Ref T		<-value	Y-value	Function	F ···	nction Resu	+ ()
M1	1	2.46158 GHz	3.73 dBm		- ru	necion Resu	
M2 M3	1	1.849481 GHz 4.92412 GHz	-41.09 dBm -42.36 dBm				
M4		7.498527 GHz	-49.84 dBm				
M5 Spectrum Ref Level 17.	Tx.	Spurious	-49.61 dBm	11g 2412N		Ref	
M5 Spectrum Ref Level 17. Att SGL Count 100,	Tx. 63 dBm C 30 dB s	Spurious	-49.61 dBm	11g 2412N		Ref	
M5 Spectrum Ref Level 17.	Tx. 63 dBm C 30 dB s	Spurious	-49.61 dBm	11g 2412N			1.67 dBm
M5 Spectrum Ref Level 17. Att SGL Count 100,	Tx. 63 dBm C 30 dB s	Spurious	-49.61 dBm	Mode Auto F			
M5 Spectrum Ref Level 17. Att SGL Count 100, 1Pk Max 10 dBm	1 1 Tx. 63 dBm C 30 dB s /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT		1.67 dBm
M5 Spectrum Ref Level 17. Att SGL Count 100, 1Pk Max	1 1 Tx. 63 dBm C 30 dB s /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	Mode Auto F	FT		1.67 dBm
M5 Spectrum Ref Level 17. Att SGL Count 100, 1Pk Max 10 dBm	1 1 Tx. 63 dBm C 30 dB s /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT		1.67 dBm
M5 Spectrum Ref Level 17. Att SGL Count 100, 1Pk Max 10 dBm 0 dBm -10 dBm	1 1 Tx. 63 dBm C 30 dB s /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT		1.67 dBm
M5 Spectrum Ref Level 17. Att SGL Count 100, 1Pk Max 10 dBm 0 dBm	1 1 Tx. 63 dBm C 30 dB s /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT		1.67 dBm
M5 Spectrum Ref Level 17. Att SGL Count 100, 10 dBm 0 dBm -10 dBm -20 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT	2.414	1.67 dBm 496900 GHz
M5 Spectrum Ref Level 17. Att SGL Count 100, 10 dBm 0 dBm -10 dBm -20 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT	2.414	1.67 dBm
M5 Spectrum Ref Level 17. Att SGL Count 100, 10 dBm 0 dBm -10 dBm -20 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT	2.414	1.67 dBm 496900 GHz
M5 Spectrum Ref Level 17. Att SGL Count 100, 1Pk Max 10 dBm 0 dBm -10 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT	2.414	1.67 dBm 496900 GHz
M5 Spectrum Ref Level 17. Aft SGL Count 100, 9 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT	2.414	1.67 dBm 496900 GHz
M5 Spectrum Ref Level 17. SGL Count 100, 9 IPK Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT	2.414	1.67 dBm 496900 GHz
M5 Spectrum Ref Level 17. Att SGL Count 100, 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT	2.414	1.67 dBm 496900 GHz
M5 Spectrum Ref Level 17. Att SGL Count 100, SGL Count 100, ID dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	11g 2412N Mode Auto F M1[1]	FT	2.414	1.67 dBm 496900 GHz
M5 Spectrum Ref Level 17. Att SGL Count 100, 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	1 1 Tx. 30 dBm C 30 dB S /100	0.011341 GHz Spurious Offset 7.63 dB wт 75.9 µs	-49.61 dBm	Mode Auto F M1[1] M1 M1 M1	FT	2.414	1.67 dBm 496900 GHz



Ref Leve Att SGL Count		30 dB			RBW 100 kHz VBW 300 kHz		Auto Sweep			
IPk Max	. 10/1									
10 dBm						M	1[1]			1.21 dBm
10 dBm	14					M	2[1]			18300 GHz -40.07 dBm
0 dBm										49481 GHz
-10 dBm—										
-20 dBm	D1 -	18.327	dBm							
-30 dBm—										
M2										
-40 dBm —		МЗ	M4	M	5		ور استعماده			1
-50 dBm	a survey and	and the plane					and a state of the			and the difference is the state
-60 dBm), and the last									
-70 dBm—	-									
Start 30.0	MHz				30001	pts			Stop	25.0 GHz
Marker	<u>(-</u>	_ 1		1		1 -				
Type Re M1	ef Tr	1 1	X-value 2.418	B3 GHz	Y-value 1.21 dBn	Funct	lion	Func	tion Result	·]
M2		1	1.84948	B1 GHz	-40.07 dBn	n				
M3 M4		1	4.64528		-49.93 dBn -48.62 dBn					
M5		1	9.6234	74 GHz	-49.53 dBr	n				
Spectrur Ref Leve					/NT 802.	11g 24] Por 37MHz	Ant1 Re	ef	
Ref Leve Att	el 17.	77 dBm 30 dB	Offset 7	7.77 dB 😑		11g 24:) Pear 37MHz Auto FFT	Ant1 Re	əf	
Ref Leve	el 17.	77 dBm 30 dB	Offset 7	7.77 dB 😑	RBW 100 kHz	11g 24:		Ant1 Re	əf	
Ref Leve Att SGL Count 1Pk Max	el 17.	77 dBm 30 dB	Offset 7	7.77 dB 😑	RBW 100 kHz	11g 24		Ant1 Re		0.48 dBm
Ref Leve Att SGL Count	el 17.	77 dBm 30 dB	Offset 7	7.77 dB 😑	RBW 100 kHz	11g 24	Auto FFT	Ant1 Re		
Ref Leve Att SGL Count 1Pk Max	el 17.	77 dBm 30 dB	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT			0.48 dBm
Ref Leve Att SGL Count 1Pk Max	el 17.	77 dBm 30 dB	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT			0.48 dBm
Ref Leve Att SGL Count 1Pk Max	el 17.	77 dBm 30 dB	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT			0.48 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT			0.48 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT		2.4382	0.48 dBm
Ref Leve Att SGL Count 1Pk Max 10 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT		2.4382	0.48 dBm 258000 GHz
Ref Leve Att SGL Count 1Pk Max 10 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT		2.4382	0.48 dBm 258000 GHz
Ref Leve Att SGL Count 1Pk Max 10 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT		2.4382	0.48 dBm
Ref Leve Att SGL Count IO dBm 0 dBm -10 dBm -20 dBm Agol dBm -40 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT		2.4382	0.48 dBm 258000 GHz
Ref Leve Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT		2.4382	0.48 dBm 258000 GHz
Ref Leve Att SGL Count IO dBm 0 dBm -10 dBm -20 dBm Agol dBm -40 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT		2.4382	0.48 dBm 258000 GHz
Ref Leve Att SGL Count IO dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT		2.4382	0.48 dBm 258000 GHz
Ref Leve Att SGL Count IO dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT 1[1]		2.4382	0.48 dBm 258000 GHz
Ref Leve Att SGL Count SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -60 dBm	el 17."	77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT 1[1]		2.4382	0.48 dBm 258000 GHz
Ref Leve Att SGL Count SGL Count 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm -60 dBm		77 dBm 30 dB 100	Offset 7 SWT 7	7.77 dB ● 75.9 μs ●	RBW 100 kHz VBW 300 kHz	11g 24	Auto FFT 1[1]		2.4382	0.48 dBm 258000 GHz



Att	17.77 dBm 30 dB			■ RBW 100 ■ VBW 300		ide Auto Si	weep				
SGL Count : 1Pk Max	10/10										
						M1[1]				1.02 dBm	
10 dBm						M2[1]				42440 GHz 45.37 dBm	
0 dBm										07838 GHz	
-10 dBm											
-20 dBm-1	D1 -19.519	dBm									
-30 dBm											
-40 dBm	м	з м	4	M5		M2				. .	
-50 dBm			n 11 manager (der Seiters	and a second	an in the second se			and a strength		A surface states and	
-60 dBm	and the second	-									
-70 dBm											
Start 30.0 M	MHz			300	01 pts				Stop	25.0 GHz	
Marker Type Ref		X-value	1	Y-value		unction	1	Function	Result	1	
M1	1	2.4424	14 GHz	1.02	dBm						
M2 M3	1	15.00783		-45.37 -48.96							
M4	1	7.45524		-49.73							
M5	1	9.557	72 GHz	-49.72	dBm						
Spectrum		x. Spuri	ious N	NVNT 80	2.11g	2462M	Ready Hz Ant1	Ref]
		Offset 7	.72 dB (NVNT 80	<hz< th=""><th>2462M</th><th></th><th>Ref</th><th></th><th></th><th>ļ</th></hz<>	2462M		Ref			ļ
Ref Level Att SGL Count	17.72 dBm 30 dB	Offset 7	.72 dB (RBW 100	<hz< td=""><td></td><td></td><td>Ref</td><td></td><td></td><td>]</td></hz<>			Ref]
Ref Level Att	17.72 dBm 30 dB	Offset 7	.72 dB (RBW 100	<hz< td=""><td>ode Auto FF</td><td></td><td>Ref</td><td></td><td></td><td>]</td></hz<>	o de Auto FF		Ref]
Ref Level Att SGL Count	17.72 dBm 30 dB	Offset 7	.72 dB (RBW 100	<hz< td=""><td></td><td></td><td></td><td>2.4638</td><td>-0.82 dBm 58900 GHz</td><td>]</td></hz<>				2.4638	-0.82 dBm 58900 GHz]
Ref Level Att SGL Count 1Pk Max	17.72 dBm 30 dB	Offset 7	.72 dB (RBW 100	(Hz (Hz Mo	0de Auto Fr 			2.4638	-0.82 dBm	
Ref Level Att SGL Count 1Pk Max	17.72 dBm 30 dB	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T		2.4638	-0.82 dBm	
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm	17.72 dBm 30 dB	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100	KHz KHz Mg	M1[1]			2.4638	-0.82 dBm	
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm	17.72 dBm 30 dB	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz]
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz]
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz]
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm]
Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz]
Ref Level Att SGL Count 1Pk Max 10 dBm 0 dBm -10 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz]
Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz	
Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz	
Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -40 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz	
Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -50 dBm -60 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz	
Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz	
Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm -60 dBm	17.72 dBm 30 dB 100/100	Offset 7 SWT 7	7.72 dB (75.9 μs (RBW 100 VBW 300	KHz KHz Mg	M1[1]	T	M		-0.82 dBm 58900 GHz	



SGL Count 10/10	30 dB SWT	250 ms 👄 VB	W 300 KH2	2 Mode /	Auto Sweep)			
●1Pk Max				M	1[1]			-0.56 dBm	
10 dBm				M	2[1]			64910 GHz 46.08 dBm	
0 dBm					-[-]			12937 GHz	
-10 dBm									
	D.819 dBm								
-30 dBm									
-40 dBm	ME	Md ME			M2				
-50 dBm	ME	M4 M5	محمور والرواريات	وبالبريط بالإحداد			والالعديانية والمعروبة	Auren aleren	
-60 dBm			and a start of the second s	and the second second					
-70 dBm									
Start 30.0 MHz			30001	1 pts			Stop	25.0 GHz	
Marker Type Ref Tro			Y-value	Funct	tion	Fund	tion Result		
		491 GHz 937 GHz	-0.56 dBi]	
M3	1 4.795:	108 GHz 302 GHz	-48.05 dB	m					
		344 GHz	-49.45 dBi						
Spectrum Ref Level 17.6: Att SGL Count 100/1	x. Spuriou	S NVNT &	W 100 kH;	z) 2412N	/Hz Ant	1 Ref		
Spectrum Ref Level 17.6: Att	x. Spuriou	7.63 dB 👄 RB	W 100 kH;	z z Mode A	Auto FFT	/Hz Ant	1 Ref]
Spectrum Ref Level 17.6: Att SGL Count 100/1	x. Spuriou	7.63 dB 👄 RB	W 100 kH;	z z Mode A		/IHz Ant		1.62 dBm 200900 GHz]
T Spectrum Ref Level 17.6: Att SGL Count 100/1 1Pk Max 10 dBm	X. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T			1.62 dBm	
Spectrum Ref Level 17.6: Att SGL Count 100/1 PPk Max	X. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T			1.62 dBm]
T Spectrum Ref Level 17.6: Att SGL Count 100/1 1Pk Max 10 dBm	X. Spuriou	7.63 dB 👄 RB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T			1.62 dBm	ļ
T Spectrum Ref Level 17.63 Att SGL Count 100/1 PIPk Max 10 dBm 0 dBm -10 dBm	X. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T			1.62 dBm]
T Spectrum Ref Level 17.6: Att SGL Count 100/1 1Pk Max 10 dBm	X. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T			1.62 dBm	
T Spectrum Ref Level 17.63 Att SGL Count 100/1 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T		2.4145	1.62 dBm 00900 GHz]
T Spectrum Ref Level 17.63 Att SGL Count 100/1 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T		2.4145	1.62 dBm	
T Spectrum Ref Level 17.63 Att SGL Count 100/1 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T		2.4145	1.62 dBm 00900 GHz	
T Spectrum Ref Level 17.63 Att SGL Count 100/1 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T		2.4145	1.62 dBm 00900 GHz]
T Spectrum Ref Level 17.63 Att SGL Count 100/1 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T		2.4145	1.62 dBm 00900 GHz	
T Spectrum Ref Level 17.6: Att SGL Count 100/1 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T		2.4145	1.62 dBm 00900 GHz	
T Spectrum Ref Level 17.63 Att SGL Count 100/1 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T		2.4145	1.62 dBm 00900 GHz	
T Spectrum Ref Level 17.6: Att SGL Count 100/1 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -60 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	z Mode A M	Auto FF T		2.4145	1.62 dBm 00900 GHz	
T Spectrum Ref Level 17.6: Att SGL Count 100/1 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	₩ 100 kH; ₩ 300 kH;	Z Mode A	Auto FF T		2.4145	1.62 dBm 00900 GHz	
T Spectrum Ref Level 17.63 Att SGL Count 100/1 PIPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm -80 dBm	x. Spuriou	7.63 dB • RB 75.9 µs • VB	W 100 kH:	Z Mode A	Auto FF T		2.4145	1.62 dBm 00900 GHz	



SGL Count 10/10						
10 dBm			M1[1]			-0.58 dBm
ML			M2[1]		-	09150 GHz 37.80 dBm
0 dBm				1 1	2.6	55179 GHz
-10 dBm						
-20 dBm-D1 -18.3	82 dBm					
-30 dBm						
-40 dBm	M3 <u>M</u> 4 r	MS				
-50 dBm					New Merchant	the second
-60 asm						
-70 dBm						
Start 30.0 MHz		30001 pts			Stop	25.0 GHz
Marker Type Ref Trc	X-value	Y-value	Function	Func	tion Result	
M1 1 M2 1	2.40915 GHz 2.655179 GHz	-0.58 dBm -37.80 dBm				
M3 1	4.730186 GHz	-49.30 dBm				
M4 1 M5 1	7.359527 GHz 9.678408 GHz	-48.66 dBm -49.54 dBm				
						2
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100		RBW 100 kHz	T20) 2437N	1Hz Ant1	Ref	
Tx. Spectrum Ref Level 17.77 d Att 30	Bm Offset 7.77 dB 🖷	RBW 100 kHz	lode Auto FFT	1Hz Ant1	Ref	
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100	Bm Offset 7.77 dB dB SWT 75.9 μs	RBW 100 kHz		1Hz Ant1		
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 1Pk Max 10 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]			2.96 dBm
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 1Pk Max	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]			2.96 dBm
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 1Pk Max 10 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs	RBW 100 kHz VBW 300 kHz N	N1[1]			2.96 dBm
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 @ 1Pk Max 10 dBm 0 dBm -10 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]			2.96 dBm
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 9 IPk Max 10 dBm 0 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]			2.96 dBm
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 ● 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 9 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 ● 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 • 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -50 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 ● 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 • 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -50 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -50 dBm -50 dBm -70 dBm -70 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 • 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -50 dBm -60 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz N	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 • IPK Max 10 dBm -10 dBm -20 dBm -40 dBm -50 dBm -60 dBm -70 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz MW MMM MMM	N1[1]		2.4307	2.96 dBm 46200 GHz
Tx. Spectrum Ref Level 17.77 d Att 30 SGL Count 100/100 • IPK Max 10 dBm -10 dBm -20 dBm -40 dBm -50 dBm -60 dBm -70 dBm	Bm Offset 7.77 dB dB SWT 75.9 μs M1	RBW 100 kHz VBW 300 kHz MW MMM MMM	N1[1]		2.4307	2.96 dBm 46200 GHz



SGL Count 10	/10									
10 dBm					M1	[1]			-0.77 dBm	
ML					M2	2[1]			29950 GHz 44.66 dBm	
0 dBm									50032 GHz	
-10 dBm										
-20 dBm 01	-17.041	dBm								
-30 dBm										
-40 dBm						M2				
-50 dBm	м	3 M	1	MS	Barris and a star star at	A STATE OF A	بالصحا باريعه فار	to be as the set of	الديناس المعربية	
A STATE OF STATE			1999 Bellever	atom patenti anatist musikina	Read on the state of the second	ومهاكمة والمعامل	n da ministra de Minis	folgenere alter prote	Anthonese	
-60 dBm										
-70 dBm										
Start 30.0 Mi	-17			3000	1 nts			Stor	25.0 GHz	
Marker	14			3000	1 pt3			0.04	20.0 012	
Type Ref	Trc	X-value	95 GHz	Y-value -0.77 dB	Funct	ion	Fund	tion Result		
M1 M2	1	16.6500	32 GHz	-44.66 dB	3m					
M3	1		83 GHz 21 GHz	-49.90 dB -48.87 dB						1
M4 M5 Spectrum Ref Level 1 Att SGL Count 10	7.72 dBm 30 dB	9.8856 Spurious	59 GHz 5 NVN 7.72 dB •	-49.82 dP T 802.11r RBW 100 kH VBW 300 kH	n(HT20)		/Hz Ant	1 Ref	The second secon	
M4 M5 Spectrum Ref Level 1 Att	1 Tx. S	9.8856 Spurious	59 GHz 5 NVN 7.72 dB •	T 802.11r	n(HT20)		1Hz Ant		2.55 dBm]
M4 M5 Spectrum Ref Level 1 Att SGL Count 10	1 Tx. S	9.8856 Spurious	59 GHz 5 NVN 7.72 dB •	T 802.11r	n(HT20)	uto FFT	IHz Ant ²			
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVΝ [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT			2.55 dBm]
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 • 1Pk Max	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT	1Hz Ant		2.55 dBm	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 • 1Pk Max 10 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT			2.55 dBm	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -10 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -10 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -10 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -10 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 • 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 • 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 • 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVN [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M5 Spectrum Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -50 dBm	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVΝ [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M4 M5 M4 M5 M4 Spectrum Ref Level 1 Att SGL Count 10 O 1Pk Max 10 dBm 10 dBm - -10 dBm - -20 dBm - -40 dBm - -50 dBm - -60 dBm -	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVΝ [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M4 M5 M5 Ref Level 1 Att SGL Count 10 1Pk Max 10 dBm 0 -10 dBm - -20 dBm - -40 dBm - -50 dBm - -60 dBm - -70 dBm -	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVΝ [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	
M4 M4 M5 M4 M5 M4 Spectrum Ref Level 1 Att SGL Count 10 • 1Pk Max 10 dBm 10 dBm - -10 dBm - -20 dBm - -40 dBm - -50 dBm - -60 dBm -	1 Tx. S 7.72 dBm 30 dB 0/100	9.8856 Spurious Offset	59 GHz S NVΝ [*] 7.72 dB ● 75.9 μs ●	T 802.11r	n(HT20)	uto FFT		2.4665	2.55 dBm 97800 GHz	



	Т	x. Sp	ourious N	/NT 8	302.11n(HT	20) 24	62MH	lz Ant1 E	mission	
Spect	•um									[₩
Ref Le	evel	17.72 d	Bm Offset 7	.72 dB 🍯	• RBW 100 kHz					
Att 🛛		30	dB SWT 2	50 ms 🧃	• VBW 300 kHz	Mode /	uto Swee	ep		
SGL Co	unt 1	0/10								
∎1Pk Ma	эх									
						M	1[1]			0.30 dBm
10 dBm·			+ +						2.4	54920 GHz
0 -10	M					M	2[1]			45.28 dBm
0 dBm—									. 22.7	35221 GHz
-10 dBm										
10 000										
-20 dBm		1 -17.4	48 dBm							
-30 dBm	-									
-40 dBm			M3 M4		мб					M2 ▼
-50 dBm			The strength of			والعن الجمعي	and a strategistic days	والمعيس ويتجعل والرياس	and public under states	a here businesses
and the part of	1.12		and provide the same static	Life enterthel	and the state of the second state of the	to entrantica militad	Construction of the State	and provide a support	Telephone Street Street	Sumbar Section
60 dBm								_		
-70 dBm	-							-		
Start 3	плм	Hz			30001	nts			Stor	25.0 GHz
1arker					00001				010	2010 0112
Type	Ref	Trc	X-value	1	Y-value	Funct	ion	Fun	tion Result	
M1	Kal	1	2.4549	2 GHz	0.30 dBm	- i unc		1 411	Alon Kesun	
M2		1	22.73522		-45.28 dBm					
M3		1	5.07893		-49.97 dBm					
M4		1	7.41196		-49.76 dBm					
M5		1	9.94225		-49.97 dBm					

END OF REPORT