

FCC Test Report

Report No.: AGC16740241205FR02

FCC ID	: WQ8-DV2411
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: PROFESSIONAL SCAN TOOL
BRAND NAME	: AUTEL
MODEL NAME	: MaxiDiag MD909 Pro, MaxiDiag MD906 Pro
APPLICANT	: Autel Intelligent Technology Corp., Ltd.
DATE OF ISSUE	: Jan. 08, 2025
STANDARD(S)	: FCC Part 15 Subpart C §15.247
REPORT VERSION	: V1.0







Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 08, 2025	Valid	Initial Release



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1. General Information

Applicant	Autel Intelligent Technology Corp., Ltd.	
Address	Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili, Nanshan, Shenzhen 518055, China	
Manufacturer	Autel Intelligent Technology Corp., Ltd.	
Address	Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili, Nanshan, Shenzhen 518055, China	
Factory	Autel Intelligent Technology Corp., Ltd. Guangming Branch	
Address	7F&6F, East Wing, Building 2, and 6F of Electronical Building, Yanxiang Industrial Zone, Gaoxin Rd, Dongzhou Community of Guangming New District, Shenzhen	
Product Designation	PROFESSIONAL SCAN TOOL	
Brand Name	AUTEL	
Test Model	MaxiDiag MD909 Pro	
Series Model(s)	MaxiDiag MD906 Pro	
Difference Description	All the series models are the same as the test model except for the model names and the color of appearance.	
Date of receipt of test item	Dec. 23, 2024	
Date of Test	Dec. 23, 2024~Jan. 07, 2025	
Deviation from Standard	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Test Report Form No	AGCER-FCC-2.4GWLAN-V1	

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

Thea Yuang Prepared By Thea Huang Jan. 08, 2025 (Project Engineer) lin Lin **Reviewed By** Calvin Liu Jan. 08 2025 (Reviewer) 1de Approved By Angela Li Jan. 08, 2025 (Authorized Officer)





2. Product Information

2.1 Product Technical Description

Equipment Type	WLAN 2.4G
Frequency Band	2400MHz ~ 2483.5MHz
Operation Frequency	2412MHz ~ 2462MHz
	IEEE 802.11b: 14.84dBm; IEEE 802.11g: 12.96dBm;
	IEEE 802.11n(HT20): 12.41dBm
Output Power (Peak)	IEEE 802.11b: 17.38dBm; IEEE 802.11g: 20.99dBm;
	IEEE 802.11n(HT20): 20.11dBm
Modulation	802.11b: (DQPSK, DBPSK, CCK) DSSS
	802.11g/n: (64-QAM,16-QAM, QPSK, BPSK) OFDM
	802.11b: 1/2/5.5/11Mbps
Data Rate	802.11g: 6/9/12/18/24/36/48/54Mbps
	802.11n: up to 300Mbps
Number of channels	11
Hardware Version	DV2411_MAIN_V1
Software Version	V01.01.00
Antenna Designation	PIFA Antenna
Antenna Gain	1.9dBi
Power Supply	DC 3.8V by battery or DC 5V by adapter



2.2 Table of Carrier Frequency

For 2412-2462MHz:

11 channels are provided for 802.11b/g/n(HT20):

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz		



2.3 IEEE 802.11n Modulation Scheme

					NI	N _{CBPS} N _{DBPS}	Data Rate(Mbps)
MCS Index	Nss	Modulation	R	N _{BPSC}	N _{CBPS}		800nsGI
macx					20MHz	20MHz	20MHz
0	1	BPSK	1/2	1	52	26	6.5
1	1	QPSK	1/2	2	104	52	13.0
2	1	QPSK	3/4	2	104	78	19.5
3	1	16-QAM	1/2	4	208	104	26.0
4	1	16-QAM	3/4	4	208	156	39.0
5	1	64-QAM	2/3	6	312	208	52.0
6	1	64-QAM	3/4	6	312	234	58.5
7	1	64-QAM	5/6	6	312	260	65.0

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	Guard interval



2.4 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: WQ8-DV2411, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.5 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.6 Special Accessories

Refer to section 4.4.

2.7 Equipment Modifications

Not available for this EUT intended for grant.

2.8 Antenna Requirement

Standard Requirement

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi

EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 1.9dBi.



2.9 Description of Test Software

For IEEE 802.11 mode:

The test utility software used during testing was "CMD", and the version was "10. 0. 19045. 5247".

Software Setting Diagram

MI I		> 桂 > 定频资料 > WIFI AP6256	在 WIFI AP6256
	C:\Windows\System32\cmd.e × + ~		
感職	wl txpwrl -d -o 10 wl pkteng_start 00:90:4c:14:43:19 wl mpc 0 wl country ALL wl band b wl mimo_bw.cap 1 wl mimo_typ.at) tx 40 1000 0wl down	
A)a	wl nrate -m 0 wl up wl up wl chanspec -c 11 -b 2 -w 40 -s 1 wl phy_watchdog 0		
£	wl phy_forcecal 1 wl phy_forcecal 1 wl txpwr1 -d -o 10 dv2411:/ # wl mpc 0 dv2411:/ # wl country ALL		
	dv2411:/ # wl band b dv2411:/ # wl mimo_bw_cap 1 dv2411:/ # wl mimo_txbw 4 dv2411:/ # wl nrate -m 0 dv2411:/ # wl up		
leel	<pre>dv2411:/ # wl chanspec -c 11 -b 2 Chanspec set to 0x190b dv2411:/ # wl phy_watchdog 0 dv2411:/ # wl scansuppress 1 dv2411:/ # wl phy forcecal 1</pre>	2 -w 40 -s 1	
SX SA	dv2411:/ # wl txpwr1 -d -o 10 dv2411:/ # wl pkteng_start 00:90:4c:14:43:19 dv2411:/ #	9 tx 40 1000 0	
LE	2015-2017 > 10 MD909PRO 搜索 4 个面目 诗由 1 个面目 2 47 MD		

Test Mode	Channel	Power Index
802.11b	L/M/H	14
802.11g	L/M/H	12
802.11n-HT20	L/M/H	12



3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

3.4 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%.

Item	Measurement Uncertainty			
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$			
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$			
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$			
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$			
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$			
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$			
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$			
Uncertainty of spurious emissions, conducted Uncertainty of Occupied Channel Bandwidth	$U_{c} = \pm 2 \%$ $U_{c} = \pm 2 \%$			



3.5 List of Equipment Used

• R	RF Conducted Test System								
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
\boxtimes	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-05-24	2025-05-23		
\square	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2024-02-01	2025-01-31		
\square	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2024-02-01	2025-01-31		
	AGC-ER-A001	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-09-21	2025-09-20		
	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2024-05-23	2025-05-22		
\boxtimes	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A		
	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A		

● F	Radiated Spurious Emission								
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2024-02-01	2025-01-31		
\boxtimes	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23		
\boxtimes	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27		
\boxtimes	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04		
\boxtimes	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10		
\boxtimes	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30		
\boxtimes	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23		
\boxtimes	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23		
\boxtimes	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2024-05-23	2025-05-22		
\boxtimes	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08		
	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08		

• A	AC Power Line Conducted Emission								
Used	ed Equipment No. Test Equipment Manufacturer Model No. Serial No. Last Cal. Date (YY-MM-DD) (YY-MM-DD)								
\boxtimes	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2024-05-28	2025-05-27		
\boxtimes	AGC-EM-A130	6dB Attenuator	Eeatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2025-06-08		
\boxtimes	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2024-05-28	2025-05-27		





 Tes 	Test Software						
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information		
\boxtimes	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71		
\boxtimes	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A		
	AGC-EM-S004	RE Test System	Tonscend	TS+Ver2.1(JS32-RE)	4.0.0.0		
\square	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6		
	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0		



4.System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

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

4.3 Configuration of Tested System



4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Adapter	Huawei	HW-200440C00		
2	Control Box	RISYM	USB-TTL		

Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1					



4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(1)	RF Output Power	Pass
3	§15.247 (a)(1)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.247 (d)&15.209	Radiated Spurious Emission	Pass
7	§15.207	AC Power Line Conducted Emission	Pass



5. Description of Test Modes

Summary table of Test Cases					
Tost Itom	Data Rate / Modulation				
iest item	2.4G WLAN – 802.11b/g/n (DSSS/OFDM)				
Radiated & Conducted Test Cases	 Mode 1: 802.11b_TX CH01_2412 MHz_1 Mbps (Battery powered or AC/DC adapter) Mode 2: 802.11b_TX CH06_2437 MHz_1 Mbps (Battery powered or AC/DC adapter) Mode 3: 802.11b_TX CH11_2462 MHz_1 Mbps (Battery powered or AC/DC adapter) Mode 4: 802.11g_TX CH01_2412 MHz_6 Mbps (Battery powered or AC/DC adapter) Mode 5: 802.11g_TX CH06_2437 MHz_6 Mbps (Battery powered or AC/DC adapter) Mode 6: 802.11g_TX CH11_2462 MHz_6 Mbps (Battery powered or AC/DC adapter) Mode 7: 802.11n-HT20_TX CH01_2412 MHz_MCS0 Mbps (Battery powered or AC/DC adapter) Mode 8: 802.11n-HT20_TX CH06_2437 MHz_ MCS0 Mbps (Battery powered or AC/DC adapter) Mode 9: 802.11n-HT20_TX CH11_2462 MHz_ MCS0 Mbps (Battery powered or AC/DC adapter) 				
AC Conducted Emission	Mode 1: 2.4G WLAN Link + Battery + USB Cable (Charging from AC Adapter)				
Note: 1. The battery 2. For Radiated	is full-charged during the test. d Emission, 3axis were chosen for testing for each applicable mode.				

3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.



6. Duty Cycle Measurement

2.4GHz WLAN (DTS) operation is possible in 20MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Average. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	Data rates (Mbps)	Duty Cycle (%)	Duty Cycle Factor (dB)
IEEE 802.11b	1	98.71	0.06
IEEE 802.11g	6	93.07	0.31
IEEE 802.11n-HT20	MCS0	92.70	0.33

Remark:

- 1. Duty Cycle factor = 10 * log (1/ Duty cycle)
- 2. The duty cycle of each frequency band mode reflects the determination requirements of the Middle channel measurement value.



• The test plots as follows:





7. RF Output Power Measurement

7.1 Provisions Applicable

For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

7.2 Measurement Procedure

Method PM is Measurement using an RF Peak power meter. The procedure for this method is as follows:

- 1. The testing follows the ANSI C63.10 Section 11.9.1.3
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

Method PM is Measurement using an RF AV power meter. The procedure for this method is as follows:

- 1. The testing follows the ANSI C63.10 Section 11.9.2.3
- 2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
- 3. The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 4. At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 5. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 6. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
- 7. Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- 8. Adjust the measurement in dBm by adding [10 log (1 / D)], where D is the duty cycle {e.g., [10 log (1 / 0.25)], if the duty cycle is 25%}.
- 9. Record the test results in the report.

7.3 Measurement Setup (Block Diagram of Configuration)





7.4 Measurement Result

Test Data of Conducted Output Power							
Test Mode	Test Frequency (MHz)	Average Power (dBm)	Peak Power (dBm)	Limits (dBm)	Pass or Fail		
	2412	14.66	17.23	≤30	Pass		
802.11b	2437	14.84	17.38	≤30	Pass		
	2462	14.79	17.05	≤30	Pass		
	2412	12.75	20.63	≤30	Pass		
802.11g	2437	12.90	20.85	≤30	Pass		
	2462	12.96	20.99	≤30	Pass		
802.11n20	2412	12.27	20.11	≤30	Pass		
	2437	12.41	19.59	≤30	Pass		
	2462	12.31	20.04	≤30	Pass		



8. 6dB Bandwidth Measurement

8.1 Provisions Applicable

The minimum 6dB bandwidth shall be 500 kHz.

8.2 Measurement Procedure

- The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
- 1. 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.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. For 6dB Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement.
- 4. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 5. Detector = peak
- 6. Trace mode = max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize.
- 9. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)





8.4 Measurement Result

	Test Data of Occupied Bandwidth and DTS Bandwidth										
Test Mode	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	DTS Bandwidth Limits (MHz)	Result						
802.11b	2412	11.151	7.563	≥0.5	Pass						
	2437	11.151	7.115	≥0.5	Pass						
	2462	11.239	6.589	≥0.5	Pass						
	2412	16.421	15.215	≥0.5	Pass						
802.11g	2437	16.430	15.500	≥0.5	Pass						
	2462	16.336	15.200	≥0.5	Pass						
	2412	17.591	15.217	≥0.5	Pass						
802.11n20	2437	17.578	15.180	≥0.5	Pass						
	2462	17.471	13.755	≥0.5	Pass						





Test Graphs of Occupied Bandwidth



























Test Graphs of DTS Bandwidth



















9. Power Spectral Density Measurement

9.1 Provisions Applicable

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.

9.2 Measurement Procedure

 \boxtimes For Peak power spectral density test:

- 1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 3. Set the RBW = 20 kHz.
- 4. Set the VBW \geq [3 × RBW].
- 5. Set the Span \geq [1.5 × DTS bandwidth].
- 6. Sweep time=Auto couple.
- 7. Detector function=Peak.
- 8. Trace Mode=Max hold.
- 9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of 10*log(3kHz/20kHz)
 = -8.23 dB is added to the measurement result.
- 10. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
- 11. The indicated level is the peak output power, after any corrections for external attenuators and cables.

For Average power spectral density test:

- 1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVPSD.
- 2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
- 3. Set Span to at least 1.5 times the OBW.
- 4. Set RBW to:3 kHz \leq RBW \leq 100 kHz.
- 5. Set VBW≥[3×RBW].
- 6. Sweep Time=Auto couple.
- 7. Detector function=RMS (i.e., power averaging).
- 8. Trace average at least 100 traces in power averaging (rms) mode.
- 9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of 10*log(3kHz/20kHz)
 = -8.23 dB is added to the measurement result.
- 10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
- 11. Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.
- 12. Record the test results in the report.



9.3 Measurement Setup (Block Diagram of Configuration)



9.4 Measurement Result

	Test Data of Conducted Output Power Spectral Density										
Test Mode	Test Frequency (MHz)	Power Spectral density (dBm/20kHz)	Power Spectral density (dBm/3kHz)	Limit (dBm/3kHz)	Result						
	2412	3.638	-4.601	≪8	Pass						
802.11b	2437 1.626		-6.613	≪8	Pass						
	2462	3.211	-5.028	≪8	Pass						
	2412	-2.531	-10.77	≪8	Pass						
802.11g	2437	-2.257	-10.496	≪8	Pass						
	2462	-1.966	-10.205	≪8	Pass						
	2412	-2.291	-10.53	≪8	Pass						
802.11n20	2437	-2.787	-11.026	≪8	Pass						
	2462	-2.229	-10.468	≪8	Pass						





Test Graphs of Conducted Output Power Spectral Density















Keysight Spectrum Analyzer - Swept SA						
R RF 50 Ω AC Center Freq 2.462000000	GHz Tria	SENSE:INT	ALIGN AUT Avg Type: Log-Pw	0 10:01:26 AM	Dec 25, 2024	Frequency
10 dB/div Ref 20.00 dBm	PNO: Fast ++ The IFGain:Low #Att	ten: 30 dB	Mk	r1 2.462 3 -2.22	P NNNNN 82 GHz 29 dBm	Auto Tune
10.0						Center Freq 2.462000000 GHz
-10.0	MAMMANN	MAN MANA	Manahan	WWWW	μ t	Start Freq 2.451683750 GHz
-20.0 -30.0 Math					Nu _{ulwuy}	Stop Freq 2.472316250 GHz
-40.0						CF Step 2.063250 MHz <u>Auto</u> Man
-60.0						Freq Offset 0 Hz
						Scale Type
Center 2.46200 GHz #Res BW 20 kHz	#VBW 62 k	(Hz	Sweep	Span 20 49.22 ms (* ^{TUS}).63 MHz 1000 pts)	Log <u>Lin</u>
Test	Graph_802.	.11n20_AN	IT1_2462_	MCS0_F	PSD	





10. Conducted Band Edge and Out-of-Band Emissions

10.1 Provisions Applicable

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

10.2 Measurement Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

- Step 1: Measurement Procedure In-Band Reference Level
- 1. Set instrument center frequency to DTS channel center frequency.
- 2. Set the span to \geq 1.5 times the DTS bandwidth.
- 3. Set the RBW = 100 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum PSD level.
- 10. Note that the channel found to contain the maximum PSD level can be used to establish the reference level.
- 11. For reference level values, please refer to DTS bandwidth test.
- Step 2: Measurement Procedure Out of Band Emission
- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

10.3 Measurement Setup (Block Diagram of Configuration)







10.4 Measurement Result



Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands





































Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



Keysight Spectrum Analyzer -	- Swept SA				
LXIR RF 5	i0 Ω AC CORREC	SENSE:INT	ALIGN AUTO	09:55:54 AM Dec 25, 2024	Frequency
Center Freq 2.406	5000000 GHz PNO: Fast ↔ IFGain:Low	. Trig: Free Run #Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN	Trequency
10 dB/div Ref 20.0	0 dBm		Mkr2 2	.400 000 0 GHz -38.746 dBm	Auto Tune
10.0 0.00		mun han han han han han	www.www.www.witerne	Anno Anen Inportany	Center Freq 2.406000000 GHz
-20.0	NAMONAMA AND CONTRACT			-18.51 UBm	Start Freq 2.390000000 GHz
-50.0					Stop Freq 2.422000000 GHz
Start 2.39000 GHz #Res BW 100 kHz	#VBW	300 kHz	Sweep 4.0	Stop 2.42200 GHz 000 ms (30000 pts)	CF Step 3.200000 MHz <u>Auto</u> Man
1 N 1 f 2 N 1 f 3 N 1 f 4 5 6	2.413 282 9 GHz 2.400 000 0 GHz 2.393 256 6 GHz	1.237 dBm -38.746 dBm -41.847 dBm			Freq Offset 0 Hz
7 8 9 9 10 11 11 11 11 11 11 11 11 11 11 11 11					Scale Type
MSG			STATUS	3	
Test_Graph	h_802.11n20_A	NT1_2412_I	MCS0_Lower	Band Edge E	missions



11. Radiated Spurious Emission

11.1 Measurement Limits

• 15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)		
0.009~0.490	2400/F(kHz)	300		
0.490~1.705	24000/F(kHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	3		
216~960	200	3		
Above 960	500	3		

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.2 Measurement Procedure

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. 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.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the



pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.
- The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
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
Start Stan Fraguanay	1GHz~26.5GHz
Start ~Stop Frequency	1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
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



Quasi-Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = as shown in the table above
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

<u>Average Measurements above 1GHz</u>

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW \geq [3 × RBW]
- 4. Detector = Power averaging (rms)
- 5. Averaging type = power (i.e., rms)
- 6. Sweep time = auto
- 7. Perform a trace average of at least 100 traces.
- 8. The applicable correction factor is [10*log (1 / D)], where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



11.3 Measurement Setup (Block Diagram of Configuration)





Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz





11.4 Measurement Result

Radiated Emission at 9kHz-30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

					Ra	diate	d Er	mise	sion Test Re	esult	s at 30	MHz-	1GH	z				
EUT Name		PR	OFE	ESS	ION	IAL S	CAN	N TC	OL		Model Name					MaxiDiag MD909 Pro		
Temperature	Э	22.	.4°C								Relative	e Hun	nidity	/	5	5.5%		
Pressure		960	0hPa	а							Test Voltage					C 3.8	3V	
Test Mode		Mo	de 6	3							Antenn	a Pola	arity		Н	orizo	ntal	
72.	0 dB	uV/m																
													Limi	it ain:	_			
										_					mai	ym.	=	
										┿┍				5			Å.	
32							_	2					r	, min	And the part	water		
			1				لمر	MA	We can		3 X	monthe	per N	w.				
	المسليلين وا	W. M. LANNIN	Away	White	almost and	n.m.	Nur		nandersen materially	HANNIN W	Managard Marcall							
	104A. 14																	
-8 31	0.000	40	5	0 1	60	70 80			(MHz)		30	0	400	500	600	700	1000.00	00
_						R	eadi	ing	Correct	Me	Measure-							-
	No.	Mk	-	Fre	eq.	L	eve	el 🗌	Factor	r	nent	Li	mit	0	ver			
_				MH	lz		dBu\	V	dB	dE	BuV/m	dB	uV/m	0	IB	Det	tector	
_	1		44	1.12	02		6.2	8	13.61	1	9.89	40.	.00	-20).11	pe	eak	•
_	2		106	6.75	87		9.8	4	16.27	2	6.11	43.	.50	-17	7.39	pe	eak	
_	3		234	1.99	09		6.9	1	15.15	2	2.06	46.	.00	-23	3.94	pe	eak	•
_	4		462	2.34	55	6.39		9	24.09	3	0.48	46.	.00	-15	5.52	pe	eak	•
_	5		545	5.18	26		7.9	2	23.98	3	1.90	46.	.00	-14	1.10	pe	eak	•
_	6	*	893	3.85	67		5.8	5	31.03	3	6.88	46.	.00	-9	.12	pe	eak	
																		•

5



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Radiated Emission Test Results at 30MHz-1GHz											
EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro								
Temperature	22.4°C	Relative Humidity	55.5%								
Pressure	960hPa	Test Voltage	DC 3.8V								
Test Mode	Mode 6	Antenna Polarity	Vertical								
72.0 dB											
			Limit — Margin: —								

30.000	40	50 60	70 80	(MHz)	300	400	500 600	700 1000.00
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		39.0245	11.36	16.58	27.94	40.00	-12.06	peak
2		106.7587	14.20	15.38	29.58	43.50	-13.92	peak
3		202.1005	9.13	17.74	26.87	43.50	-16.63	peak
4	4	438.6554	6.61	25.88	32.49	46.00	-13.51	peak
5	-	721.7259	6.55	28.64	35.19	46.00	-10.81	peak
6	*	955.4381	7.10	30.38	37.48	46.00	-8.52	peak

RESULT: Pass

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 6 is the worst case and recorded in the report.



Radiated Emissions Test Results above 1 GHz

EUT	Name	PROFESSIC	NAL SCAN T	Mode	el Name	MaxiDiag MD909 Pro					
Temp	perature	22.4°C			Relative Humidity			55.5%			
Pres	sure	960hPa			Test Voltage			DC 3.8V			
Test	Mode	Mode 4			Antenna Polarity Horizontal						
	Frequency	Meter Reading	Factor	Emissior	n Level Limits M			largin			
	(MHz)	(dBµV)	(dB)	(dBµV	//m)	(dBµV/m)		(dB)	value Type		
	4824.000	47.61	0.08	47.6	69	74	-	26.31	peak		
	4824.000	38.42	0.08	38.5	5	54		-15.5	AVG		
	7236.000	42.16	2.21	44.3	37	74	-	29.63	peak		
	7236.000	31.38	2.21	33.5	59	54	-	20.41	AVG		
	Remark:										
	Factor = Anter	ina Factor + Cable	<u>e Loss – Pre-a</u>	amplifier.							
EUT	Name	PROFESSIC	NAL SCAN T	Mode	el Name		MaxiDi	ag MD909 Pro			
Temp	perature	22.4°C			Relative Humidity 55.5%						
Pres	sure	960hPa	960hPa			Test Voltage			DC 3.8V		
			Mode 4			vollage					
Test	Mode	Mode 4			Anter	nna Polarity		Vertica	d		
Test	Mode	Mode 4			Anter	nna Polarity		Vertica	l		
Test	Mode Frequency	Mode 4	Factor	Emissior	Anter	nna Polarity	N	Vertica ¹ argin			
Test	Mode Frequency (MHz)	Mode 4 Meter Reading (dBµV)	Factor (dB)	Emissior (dBµV	Anter	Limits (dBµV/m)	N	Vertica ^(dB)	I - Value Type		
Test	Mode Frequency (MHz) 4824.000	Mode 4 Meter Reading (dBµV) 47.94	Factor (dB) 0.08	Emissior (dBµV 48.0	Anter	Limits (dBµV/m) 74	N	Vertica /argin (dB) 25.98	I Value Type peak		
Test	Mode Frequency (MHz) 4824.000 4824.000	Mode 4 Meter Reading (dBµV) 47.94 38.54	Factor (dB) 0.08 0.08	Еmissior (dBµV 48.0 38.6	Anter Anter //m) 02 52	Limits (dBµV/m) 74 54	N 	Vertica /argin (dB) 25.98 15.38	Value Type peak AVG		
Test	Mode Frequency (MHz) 4824.000 4824.000 7236.000	Mode 4 Meter Reading (dBµV) 47.94 38.54 42.19	Factor (dB) 0.08 0.08 2.21	Emissior (dBµV 48.0 38.6 44.4	Anter Anter //m) 02 62 4	Limits (dBµV/m) 74 54 74	 	Vertica /argin (dB) 25.98 15.38 -29.6	- Value Type peak AVG peak		
Test	Mode Frequency (MHz) 4824.000 4824.000 7236.000 7236.000	Mode 4 Meter Reading (dBµV) 47.94 38.54 42.19 31.35	Factor (dB) 0.08 0.08 2.21 2.21	Emissior (dBµV 48.0 38.6 44.4 33.5	Anter Anter //m) 02 02 4 56	Limits (dBµV/m) 74 54 74 54 74	 	Vertica largin (dB) 25.98 15.38 -29.6 20.44	Value Type Peak AVG peak AVG		
Test	Mode Frequency (MHz) 4824.000 4824.000 7236.000 7236.000	Mode 4 Meter Reading (dBµV) 47.94 38.54 42.19 31.35	Factor (dB) 0.08 0.08 2.21 2.21	Emissior (dBµV 48.0 38.6 44.4 33.5	Anter Anter //m) 02 02 4 56	Limits (dBµV/m) 74 54 74 54 54		Vertica (dB) 25.98 15.38 -29.6 20.44	Value Type Peak AVG peak AVG		
Test	Mode Frequency (MHz) 4824.000 4824.000 7236.000 7236.000 Remark:	Mode 4 Meter Reading (dBµV) 47.94 38.54 42.19 31.35	Factor (dB) 0.08 0.08 2.21 2.21	Emissior (dBµV 48.0 38.6 44.4 333.5	Anter h Level //m))2 52 4 56	Limits (dBµV/m) 74 54 74 54 54		Vertica /argin (dB) 25.98 15.38 -29.6 20.44	Value Type peak AVG peak AVG		

RESULT: Pass



Radiated Emissions Test Results above 1GHz

EUT	r Name	PROFESSI	ONAL SCAN T	OOL	Mode	el Name	MaxiDia	MaxiDiag MD909 Pro	
Tem	perature	22.4°C			Relat	ive Humidity	55.5%	55.5%	
Pre	ssure	960hPa			Test V	Voltage	DC 3.8	DC 3.8V	
Tes	t Mode	Mode 5			Anter	nna Polarity	Horizor	Horizontal	
	Frequency	Meter Reading	Factor	Emissio	n Level	Limits	Margin		
	(MHz)	(dBµV)	(dB)	(dBµ∖	//m) (dBµV/m)		(dB)	value Type	
	4874.000	47.85	0.14	47.9	99	74	-26.01	peak	
	4874.000	37.61	0.14	37.7	75	54	-16.25	AVG	
	7311.000	42.19	2.36	44.5	55	74	-29.45	peak	
	7311.000	32.38	2.36	34.7	74	54	-19.26	AVG	
	Remark [.]							<u> </u>	
	Factor = Anten	na Factor + Cab	le Loss – Pre-a	mplifier					
EUT	Г Name	PROFESSI	ONAL SCAN T	Mode	el Name	MaxiDia	ag MD909 Pro		
Tem	perature	22.4°C			Relative Humidity 55.5%				
Pre	ssure	960hPa			Test Voltage DC			0C 3.8V	
Tes	t Mode	Mode 5			Anter	nna Polarity	Vertical		
	Frequency	Meter Reading	Factor	Emissio	n Level	Limits	Margin		
	(MHz)	(dBµV)	(dB)	(dBµ∖	//m)	(dBµV/m)	(dB)	value i ype	
	4874.000	48.62	0.14	48.7	76	74	-25.24	peak	
	4874.000	37.53	0.14	37.6	67	54	-16.33	AVG	
	7311.000	42.68	2.36	45.0)4	74	-28.96	peak	
	7311.000	31.57	2.36	33.9	93	54	-20.07	AVG	
								+	
	Remark [.]								
	Factor = Anten	na Factor + Cab	le Loss – Pre-a	mplifier					

RESULT: Pass



Radiated Emissions Test Results above 1GHz

EUT Name		PROFESSIO	PROFESSIONAL SCAN TOOL		Model Name MaxiE		MaxiDiag	g MD909 Pro	
Temperature		22.4°C	22.4°C		Relative Humidity		55.5%	55.5%	
Pre	ssure	960hPa	960hPa		Test Voltage		DC 3.8V		
Tes	t Mode	Mode 6	Mode 6		Anteni	na Polarity	Horizonta	al	
	Frequency	Meter Reading	Factor	Emissio	on Level	Limits	Margin		
	(MHz)	(dBµV)	(dB)	(dBµ	V/m)	(dBµV/m)	(dB)	value Type	
	4924.000	47.64	0.22	47	.86	74	-26.14	peak	
	4924.000	38.52	0.22	38	.74	54	-15.26	AVG	
	7386.000	42.34	2.64	44	.98	74	-29.02	peak	
	7386.000	31.59	2.64	34	.23	54	-19.77	AVG	
	Remark [.]								
	Factor = Anten	na Factor + Cabl	e Loss – Pre-	amplifier					
			2000 110						
EUT Name PROFESSIONAL SCAN TOOL Model Name MaxiDiag MD909 P			g MD909 Pro						
Temperature		22.4°C	22.4°C		Relative Humidity 55.5%				
Pre	ssure	960hPa	hPa		Test Voltage D		DC 3.8V		
Tes	t Mode	Mode 6			Antenna Polarity Vertical				
	Frequency	Meter Reading	Factor	Emissio	on Level	Limits	Margin		
	(MHz)	(dBµV)	(dB)	(dBµ	V/m)	(dBµV/m)	(dB)		
	4924.000	48.62	0.22	48	.84	74	-25.16	peak	
	4924.000	37.54	0.22	37	.76	54	-16.24	AVG	
	7386.000	42.58	2.64	45	.22	74	-28.78	peak	
	7386.000	32.87	2.64	35	.51	54	-18.49	AVG	
	Remark:								
	Remain.								
	$ a \cup a - \Delta a - a \cup a - $								

RESULT: Pass



Note:

- 1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.
- 4. All test modes had been pre-tested. The mode 802.11g is the worst case and recorded in the report.



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 1	Antenna Polarity	Vertical





Test Graph for Average Measurement



RESULT: Pass



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 3	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 3	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 4	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 4	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 6	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 6	Antenna Polarity	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass



EUT Name	PROFESSIONAL SCAN TOOL	Model Name	MaxiDiag MD909 Pro
Temperature	20.9°C	Relative Humidity	50%
Pressure	960hPa	Test Voltage	DC 3.8V
Test Mode	Mode 7	Antenna Polarity	Horizontal





Test Graph for Average Measurement



RESULT: Pass