

TEST REPORT

Applicant: Huizhou Desay SV Automotive Co., Ltd.

Address of Applicant: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong 516006, China

Manufacturer/Factory: Huizhou Desay SV Automotive Co., Ltd.

Address of Manufacturer/Factory: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong 516006, China

Equipment Under Test (EUT)

Product Name: Ford ICA2 AHU

Model No.: NV9051/70

FCC ID: 2AEQT-NV905170

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: December 17, 2020

Date of Test: December 18, 2020-January 26, 2021

Date of report issued: January 26, 2021

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

A circular blue ink stamp from Global United Technology Services Co., Ltd. (GTS) is visible. The stamp contains the text "GLOBAL UNITED TECHNOLOGY SERVICES CO., LTD." around the perimeter and "GTS" in the center. A handwritten signature in blue ink is written over the stamp.

Robinson Luo

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	January 26, 2021	Original

Prepared By:

Tiger Chen

Date:

January 26, 2021

Project Engineer

Check By:

Robinson Law

Date:

January 26, 2021

Reviewer

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4 Test Summary

Test Item	Section	Result
Antenna requirement	FCC part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	FCC part 15.207	N/A
Conducted Peak Output Power	FCC part 15.247 (b)(3)	Pass
Channel Bandwidth & 99% OCB	FCC part 15.247 (a)(2)	Pass
Power Spectral Density	FCC part 15.247 (e)	Pass
Band Edge	FCC part 15.247(d)	Pass
Spurious Emission	FCC part 15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013 and RSS-Gen

Pass: The EUT complies with the essential requirements in the standard.

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Ford ICA2 AHU
Model No.:	NV9051/70
Serial No.:	N/A
Hardware version:	006
Software version:	DCV4
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Test sample(s) ID:	GTS202012000188-1
Sample(s) Status	Engineer sample
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40): 9
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(HT20) /802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna gain:	0dBi(declare by applicant)
Power supply:	DC 12V

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)	Frequency (MHz)
	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)
Lowest channel	2412MHz	2422MHz
Middle channel	2437MHz	2437MHz
Highest channel	2462MHz	2452MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
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We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT20)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
GS	Lead-Acid battery	S5D26R-MFZ	9442804454
Lenovo	Notebook PC	E40	N/A

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology SerSvices Co., Ltd., Shenzhen 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 files. Registration 381383.

- **IC —Registration No.: 9079A**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test command provided by manufacturer
Power level setup	Default

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

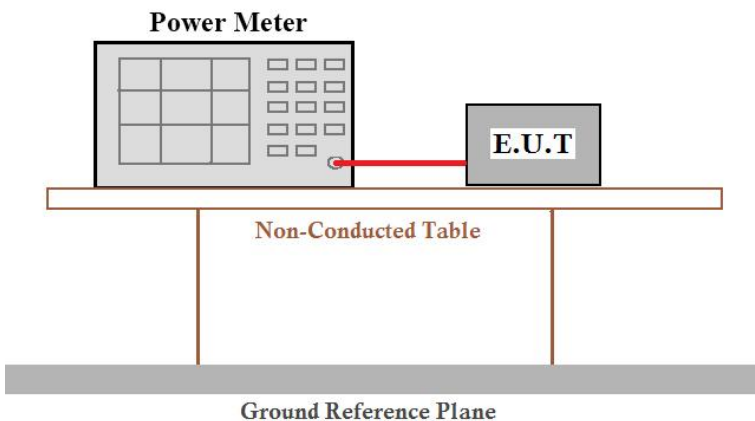
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

7 Test results and Measurement Data

7.1 Antenna requirement

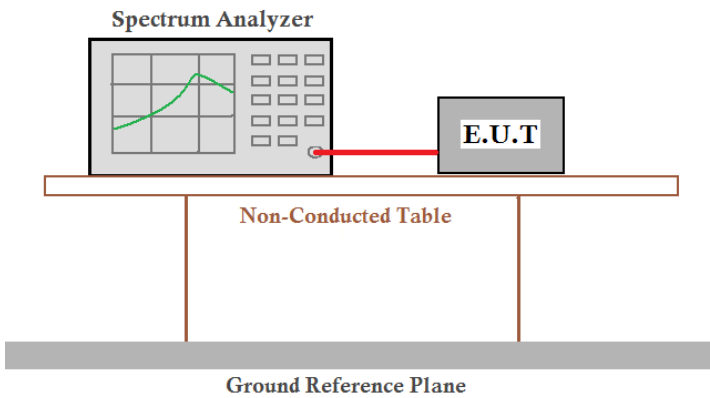
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
<i>The antenna is integral antenna, the best case gain of the antennas are 0dBi, reference to the appendix II for details</i>	

7.2 Conducted Peak Output Power

Test Requirement :	FCC Part15 C Section 15.247 (b)(3)
Test Method :	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Power Meter, represented by a box with a grid of buttons, is connected to an E.U.T. (Equipment Under Test), represented by a smaller box, via a red cable. Both the Power Meter and the E.U.T. are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick gray bar.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

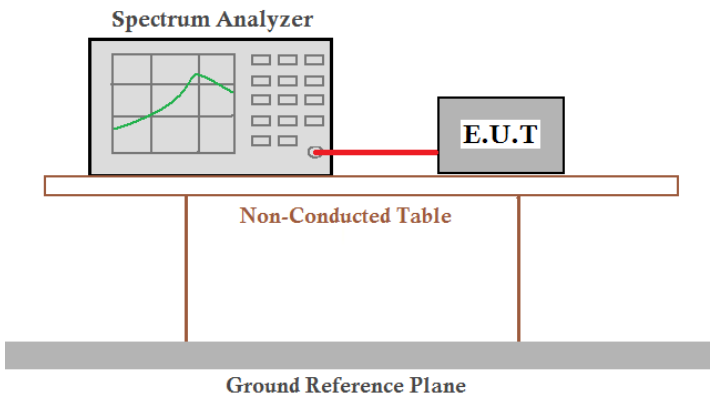
Measurement Data: The detailed test data see Appendix for WIFI 2.4G

7.3 Channel Bandwidth

Test Requirement :	FCC Part15 C Section 15.247 (a)(2)
Test Method :	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	>500KHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an E.U.T. (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for WIFI 2.4G

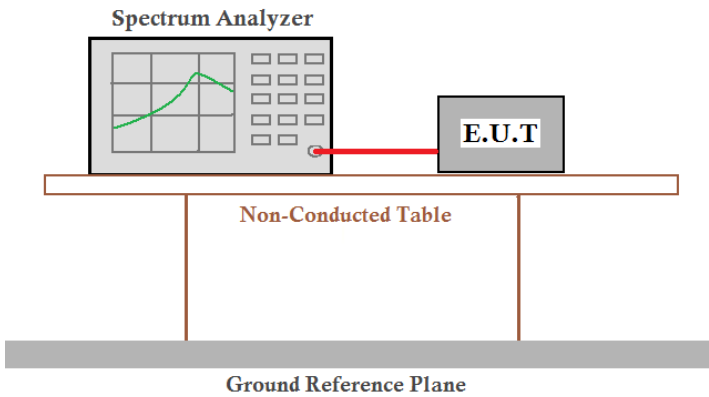
7.4 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	8dBm/3kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a green trace on its screen, is connected to an E.U.T. (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by two vertical legs. Below the table, a Ground Reference Plane is indicated by a thick grey bar.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for WIFI 2.4G

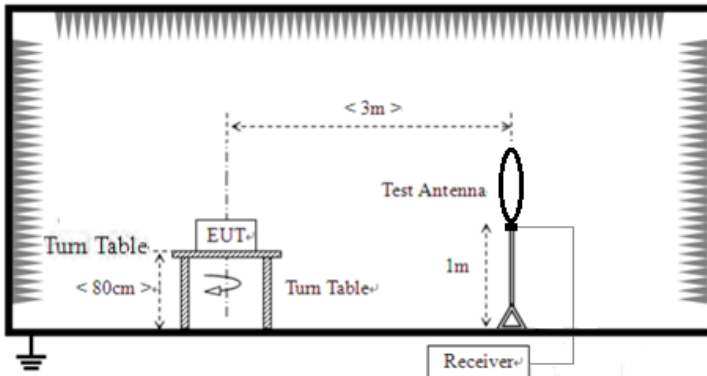
7.5 Spurious Emission in Non-restricted & restricted Bands

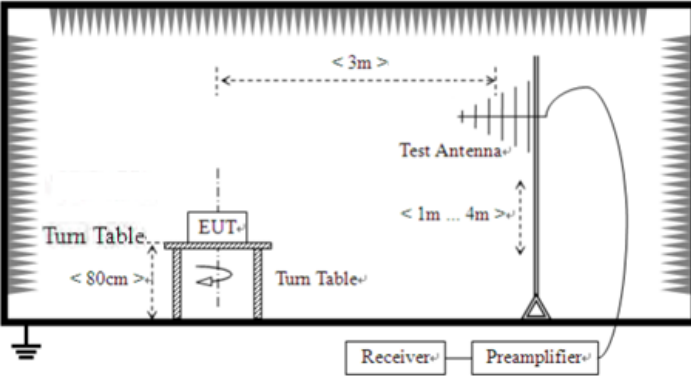
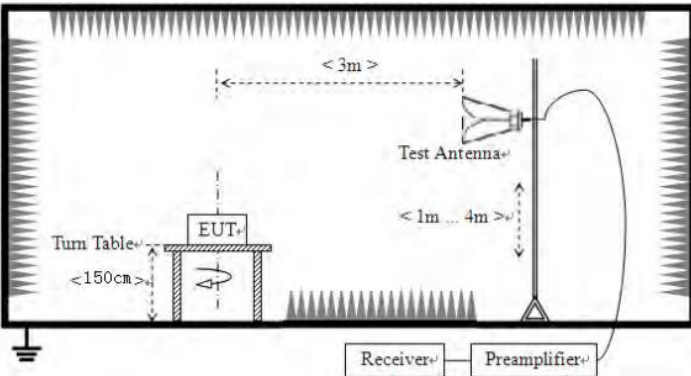
7.5.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for WIFI 2.4G

7.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																												
Test Method:	ANSI C63.10:2013																												
Test Frequency Range:	9kHz to 25GHz																												
Test site:	Measurement Distance: 3m																												
Receiver setup:	Frequency	Detector	RBW	VBW	Value																								
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak																								
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak																								
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak																								
	Above 1GHz	Peak	1MHz	3MHz	Peak																								
		Peak	1MHz	10Hz	Average																								
Limit:	<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100**</td><td>3</td></tr><tr><td>88-216</td><td>150**</td><td>3</td></tr><tr><td>216-960</td><td>200**</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>					Frequency (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
	Frequency (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																										
	The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.																												
Test setup:	For radiated emissions from 9kHz to 30MHz																												
																													

	For radiated emissions from 30MHz to 1GHz  For radiated emissions above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test results:	Pass					

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
Only shown the worst case test data.

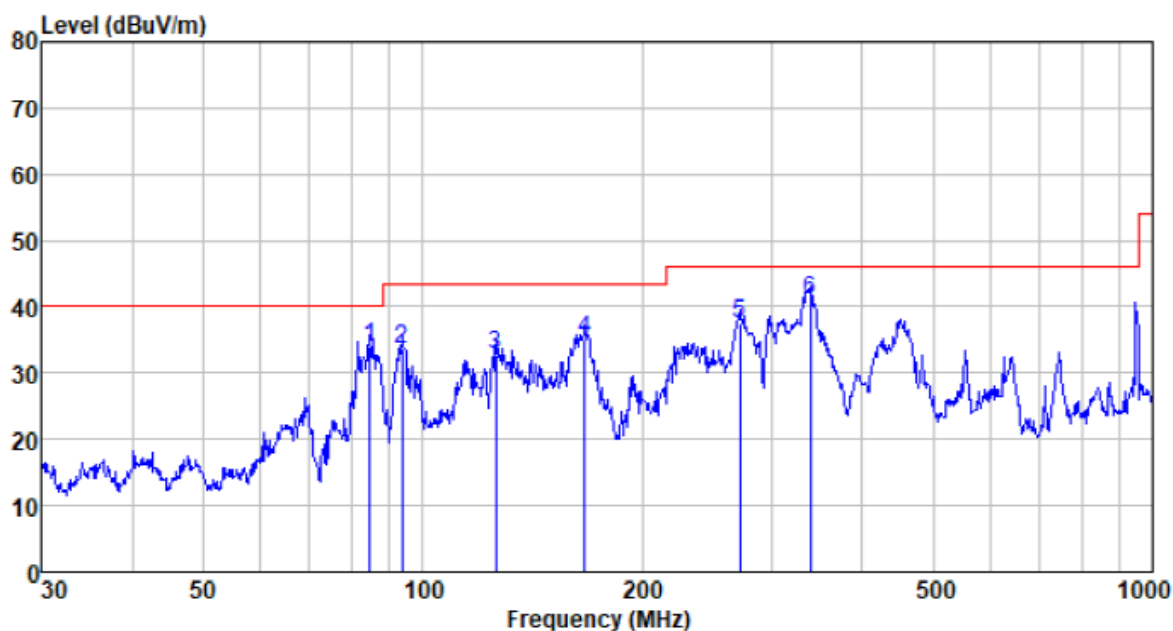
■ 9kHz~30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

■ Below 1GHz

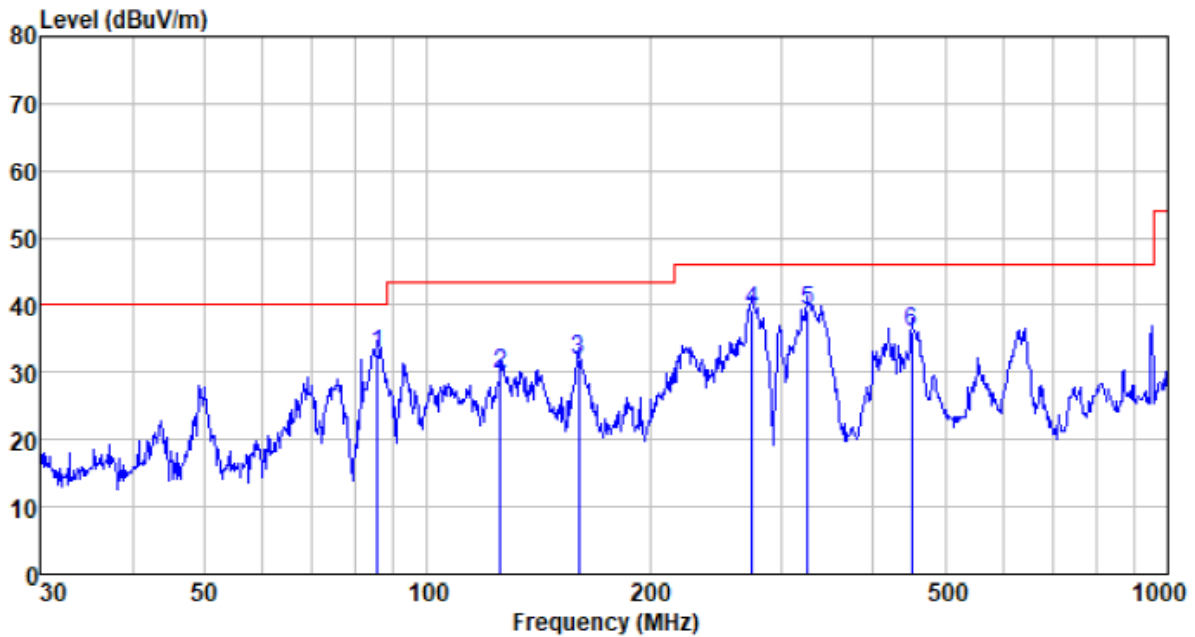
Pre-scan all test modes, found worst case at 802.11n(HT20) 2437MHz, and so only show the test result of 802.11n(HT20) 2437MHz

Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
84.702	60.42	8.92	1.07	36.59	33.82	40.00	-6.18	QP
93.768	58.08	11.25	1.14	36.67	33.80	43.50	-9.70	QP
125.886	59.67	8.74	1.41	36.92	32.90	43.50	-10.60	QP
166.651	62.32	8.43	1.67	37.17	35.25	43.50	-8.25	QP
272.278	59.90	12.84	2.24	37.40	37.58	46.00	-8.42	QP
339.589	61.56	14.34	2.57	37.46	41.01	46.00	-4.99	QP

Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
85.598	59.06	9.30	1.07	36.60	32.83	40.00	-7.17	QP
125.446	56.63	8.74	1.40	36.92	29.85	43.50	-13.65	QP
160.346	58.95	8.31	1.63	37.14	31.75	43.50	-11.75	QP
274.194	61.53	12.87	2.24	37.40	39.24	46.00	-6.76	QP
326.740	60.02	14.12	2.50	37.45	39.19	46.00	-6.81	QP
451.135	54.15	16.40	3.09	37.51	36.13	46.00	-9.87	QP

■ Above 1GHz

■ Unwanted Emissions in non-restricted Frequency Bands

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.77	31.79	8.62	32.10	47.08	74.00	-26.92	Vertical
7236.00	33.25	36.19	11.68	31.97	49.15	74.00	-24.85	Vertical
9648.00	32.02	38.07	14.16	31.56	52.69	74.00	-21.31	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.67	31.79	8.62	32.10	45.98	74.00	-28.02	Horizontal
7236.00	33.12	36.19	11.68	31.97	49.02	74.00	-24.98	Horizontal
9648.00	31.65	38.07	14.16	31.56	52.32	74.00	-21.68	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	27.97	31.79	8.62	32.10	36.28	54.00	-17.72	Vertical
7236.00	22.15	36.19	11.68	31.97	38.05	54.00	-15.95	Vertical
9648.00	22.40	38.07	14.16	31.56	43.07	54.00	-10.93	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.29	31.79	8.62	32.10	35.60	54.00	-18.40	Horizontal
7236.00	21.73	36.19	11.68	31.97	37.63	54.00	-16.37	Horizontal
9648.00	21.43	38.07	14.16	31.56	42.10	54.00	-11.90	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11b	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.09	31.85	8.66	32.12	46.48	74.00	-27.52	Vertical
7311.00	33.49	36.37	11.71	31.91	49.66	74.00	-24.34	Vertical
9748.00	33.16	38.27	14.25	31.56	54.12	74.00	-19.88	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.76	31.85	8.66	32.12	47.15	74.00	-26.85	Horizontal
7311.00	32.23	36.37	11.71	31.91	48.40	74.00	-25.60	Horizontal
9748.00	33.09	38.27	14.25	31.56	54.05	74.00	-19.95	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.04	31.85	8.66	32.12	37.43	54.00	-16.57	Vertical
7311.00	21.83	36.37	11.71	31.91	38.00	54.00	-16.00	Vertical
9748.00	22.44	38.27	14.25	31.56	43.40	54.00	-10.60	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.94	31.85	8.66	32.12	37.33	54.00	-16.67	Horizontal
7311.00	21.34	36.37	11.71	31.91	37.51	54.00	-16.49	Horizontal
9748.00	22.83	38.27	14.25	31.56	43.79	54.00	-10.21	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	42.70	31.90	8.70	32.15	51.15	74.00	-22.85	Vertical
7386.00	33.59	36.49	11.76	31.83	50.01	74.00	-23.99	Vertical
9848.00	36.04	38.62	14.31	31.77	57.20	74.00	-16.80	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.35	31.90	8.70	32.15	50.80	74.00	-23.20	Horizontal
7386.00	32.66	36.49	11.76	31.83	49.08	74.00	-24.92	Horizontal
9848.00	32.29	38.62	14.31	31.77	53.45	74.00	-20.55	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	33.79	31.90	8.70	32.15	42.24	54.00	-11.76	Vertical
7386.00	23.55	36.49	11.76	31.83	39.97	54.00	-14.03	Vertical
9848.00	24.59	38.62	14.31	31.77	45.75	54.00	-8.25	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.82	31.90	8.70	32.15	41.27	54.00	-12.73	Horizontal
7386.00	22.09	36.49	11.76	31.83	38.51	54.00	-15.49	Horizontal
9848.00	21.58	38.62	14.31	31.77	42.74	54.00	-11.26	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Test mode:	802.11g	Test channel:	lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.61	31.79	8.62	32.10	46.92	74.00	-27.08	Vertical
7236.00	33.15	36.19	11.68	31.97	49.05	74.00	-24.95	Vertical
9648.00	31.95	38.07	14.16	31.56	52.62	74.00	-21.38	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.54	31.79	8.62	32.10	45.85	74.00	-28.15	Horizontal
7236.00	33.03	36.19	11.68	31.97	48.93	74.00	-25.07	Horizontal
9648.00	31.59	38.07	14.16	31.56	52.26	74.00	-21.74	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	27.82	31.79	8.62	32.10	36.13	54.00	-17.87	Vertical
7236.00	22.06	36.19	11.68	31.97	37.96	54.00	-16.04	Vertical
9648.00	22.33	38.07	14.16	31.56	43.00	54.00	-11.00	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.16	31.79	8.62	32.10	35.47	54.00	-18.53	Horizontal
7236.00	21.65	36.19	11.68	31.97	37.55	54.00	-16.45	Horizontal
9648.00	21.36	38.07	14.16	31.56	42.03	54.00	-11.97	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11g	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.95	31.85	8.66	32.12	46.34	74.00	-27.66	Vertical
7311.00	33.41	36.37	11.71	31.91	49.58	74.00	-24.42	Vertical
9748.00	33.10	38.27	14.25	31.56	54.06	74.00	-19.94	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.65	31.85	8.66	32.12	47.04	74.00	-26.96	Horizontal
7311.00	32.16	36.37	11.71	31.91	48.33	74.00	-25.67	Horizontal
9748.00	33.04	38.27	14.25	31.56	54.00	74.00	-20.00	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.92	31.85	8.66	32.12	37.31	54.00	-16.69	Vertical
7311.00	21.75	36.37	11.71	31.91	37.92	54.00	-16.08	Vertical
9748.00	22.38	38.27	14.25	31.56	43.34	54.00	-10.66	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.84	31.85	8.66	32.12	37.23	54.00	-16.77	Horizontal
7311.00	21.27	36.37	11.71	31.91	37.44	54.00	-16.56	Horizontal
9748.00	22.78	38.27	14.25	31.56	43.74	54.00	-10.26	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	42.48	31.90	8.70	32.15	50.93	74.00	-23.07	Vertical
7386.00	33.44	36.49	11.76	31.83	49.86	74.00	-24.14	Vertical
9848.00	35.94	38.62	14.31	31.77	57.10	74.00	-16.90	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.16	31.90	8.70	32.15	50.61	74.00	-23.39	Horizontal
7386.00	32.54	36.49	11.76	31.83	48.96	74.00	-25.04	Horizontal
9848.00	32.20	38.62	14.31	31.77	53.36	74.00	-20.64	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	33.58	31.90	8.70	32.15	42.03	54.00	-11.97	Vertical
7386.00	23.41	36.49	11.76	31.83	39.83	54.00	-14.17	Vertical
9848.00	24.49	38.62	14.31	31.77	45.65	54.00	-8.35	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.64	31.90	8.70	32.15	41.09	54.00	-12.91	Horizontal
7386.00	21.97	36.49	11.76	31.83	38.39	54.00	-15.61	Horizontal
9848.00	21.49	38.62	14.31	31.77	42.65	54.00	-11.35	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.00	31.79	8.62	32.10	47.31	74.00	-26.69	Vertical
7236.00	33.40	36.19	11.68	31.97	49.30	74.00	-24.70	Vertical
9648.00	32.13	38.07	14.16	31.56	52.80	74.00	-21.20	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.87	31.79	8.62	32.10	46.18	74.00	-27.82	Horizontal
7236.00	33.25	36.19	11.68	31.97	49.15	74.00	-24.85	Horizontal
9648.00	31.75	38.07	14.16	31.56	52.42	74.00	-21.58	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.19	31.79	8.62	32.10	36.50	54.00	-17.50	Vertical
7236.00	22.30	36.19	11.68	31.97	38.20	54.00	-15.80	Vertical
9648.00	22.50	38.07	14.16	31.56	43.17	54.00	-10.83	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.48	31.79	8.62	32.10	35.79	54.00	-18.21	Horizontal
7236.00	21.86	36.19	11.68	31.97	37.76	54.00	-16.24	Horizontal
9648.00	21.52	38.07	14.16	31.56	42.19	54.00	-11.81	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11n(HT20)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.28	31.85	8.66	32.12	46.67	74.00	-27.33	Vertical
7311.00	33.61	36.37	11.71	31.91	49.78	74.00	-24.22	Vertical
9748.00	33.25	38.27	14.25	31.56	54.21	74.00	-19.79	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.93	31.85	8.66	32.12	47.32	74.00	-26.68	Horizontal
7311.00	32.34	36.37	11.71	31.91	48.51	74.00	-25.49	Horizontal
9748.00	33.18	38.27	14.25	31.56	54.14	74.00	-19.86	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.22	31.85	8.66	32.12	37.61	54.00	-16.39	Vertical
7311.00	21.95	36.37	11.71	31.91	38.12	54.00	-15.88	Vertical
9748.00	22.52	38.27	14.25	31.56	43.48	54.00	-10.52	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.09	31.85	8.66	32.12	37.48	54.00	-16.52	Horizontal
7311.00	21.45	36.37	11.71	31.91	37.62	54.00	-16.38	Horizontal
9748.00	22.91	38.27	14.25	31.56	43.87	54.00	-10.13	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.04	31.90	8.70	32.15	51.49	74.00	-22.51	4924.00
7386.00	33.80	36.49	11.76	31.83	50.22	74.00	-23.78	7386.00
9848.00	36.20	38.62	14.31	31.77	57.36	74.00	-16.64	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.63	31.90	8.70	32.15	51.08	74.00	-22.92	Horizontal
7386.00	32.85	36.49	11.76	31.83	49.27	74.00	-24.73	Horizontal
9848.00	32.43	38.62	14.31	31.77	53.59	74.00	-20.41	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.10	31.90	8.70	32.15	42.55	54.00	-11.45	Vertical
7386.00	23.76	36.49	11.76	31.83	40.18	54.00	-13.82	Vertical
9848.00	24.73	38.62	14.31	31.77	45.89	54.00	-8.11	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.09	31.90	8.70	32.15	41.54	54.00	-12.46	Horizontal
7386.00	22.27	36.49	11.76	31.83	38.69	54.00	-15.31	Horizontal
9848.00	21.72	38.62	14.31	31.77	42.88	54.00	-11.12	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	38.79	31.81	8.63	32.11	47.12	74.00	-26.88	Vertical
7266.00	33.27	36.28	11.69	31.94	49.30	74.00	-24.70	Vertical
9688.00	32.04	38.13	14.21	31.52	52.86	74.00	-21.14	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	37.69	31.81	8.63	32.11	46.02	74.00	-27.98	Horizontal
7266.00	33.14	36.28	11.69	31.94	49.17	74.00	-24.83	Horizontal
9688.00	31.67	38.13	14.21	31.52	52.49	74.00	-21.51	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	27.99	31.81	8.63	32.11	36.32	54.00	-17.68	Vertical
7266.00	22.17	36.28	11.69	31.94	38.20	54.00	-15.80	Vertical
9688.00	22.41	38.13	14.21	31.52	43.23	54.00	-10.77	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.31	31.81	8.63	32.11	35.64	54.00	-18.36	Horizontal
7266.00	21.74	36.28	11.69	31.94	37.77	54.00	-16.23	Horizontal
9688.00	21.44	38.13	14.21	31.52	42.26	54.00	-11.74	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Test mode:	802.11n(HT40)	Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.11	31.85	8.66	32.12	46.50	74.00	-27.50	Vertical
7311.00	33.50	36.37	11.71	31.91	49.67	74.00	-24.33	Vertical
9748.00	33.17	38.27	14.25	31.56	54.13	74.00	-19.87	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.78	31.85	8.66	32.12	47.17	74.00	-26.83	Horizontal
7311.00	32.24	36.37	11.71	31.91	48.41	74.00	-25.59	Horizontal
9748.00	33.10	38.27	14.25	31.56	54.06	74.00	-19.94	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.06	31.85	8.66	32.12	37.45	54.00	-16.55	Vertical
7311.00	21.85	36.37	11.71	31.91	38.02	54.00	-15.98	Vertical
9748.00	22.45	38.27	14.25	31.56	43.41	54.00	-10.59	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.96	31.85	8.66	32.12	37.35	54.00	-16.65	Horizontal
7311.00	21.35	36.37	11.71	31.91	37.52	54.00	-16.48	Horizontal
9748.00	22.84	38.27	14.25	31.56	43.80	54.00	-10.20	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Test mode:	802.11n(HT40)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	42.74	31.88	8.68	32.13	51.17	74.00	-22.83	4924.00
7356.00	33.61	36.45	11.75	31.86	49.95	74.00	-24.05	7386.00
9808.00	36.06	38.43	14.29	31.68	57.10	74.00	-16.90	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.38	31.88	8.68	32.13	50.81	74.00	-23.19	Horizontal
7356.00	32.68	36.45	11.75	31.86	49.02	74.00	-24.98	Horizontal
9808.00	32.31	38.43	14.29	31.68	53.35	74.00	-20.65	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	33.82	31.88	8.68	32.13	42.25	54.00	-11.75	Vertical
7356.00	23.57	36.45	11.75	31.86	39.91	54.00	-14.09	Vertical
9808.00	24.60	38.43	14.29	31.68	45.64	54.00	-8.36	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	32.85	31.88	8.68	32.13	41.28	54.00	-12.72	Horizontal
7356.00	22.11	36.45	11.75	31.86	38.45	54.00	-15.55	Horizontal
9808.00	21.60	38.43	14.29	31.68	42.64	54.00	-11.36	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Notes:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*”, means this data is too weak; instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not shown in test report.

■ Unwanted Emissions in restricted Frequency Bands

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.92	27.14	6.19	42.04	31.21	74.00	-42.79	Horizontal
2390.00	48.36	27.37	6.31	42.11	39.93	74.00	-34.07	Horizontal
2310.00	38.48	27.14	6.19	42.04	29.77	74.00	-44.23	Vertical
2390.00	49.69	27.37	6.31	42.11	41.26	74.00	-32.74	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	30.18	27.14	6.19	42.04	21.47	54.00	-32.53	Horizontal
2390.00	37.29	27.37	6.31	42.11	28.86	54.00	-25.14	Horizontal
2310.00	28.86	27.14	6.19	42.04	20.15	54.00	-33.85	Vertical
2390.00	39.28	27.37	6.31	42.11	30.85	54.00	-23.15	Vertical

Test mode:	802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.84	27.66	6.45	42.01	40.94	74.00	-33.06	Horizontal
2500.00	41.22	27.70	6.47	42.00	33.39	74.00	-40.61	Horizontal
2483.50	48.74	27.66	6.45	42.01	40.84	74.00	-33.16	Vertical
2500.00	42.43	27.70	6.47	42.00	34.60	74.00	-39.40	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.29	27.66	6.45	42.01	29.39	54.00	-24.61	Horizontal
2500.00	33.72	27.70	6.47	42.00	25.89	54.00	-28.11	Horizontal
2483.50	38.08	27.66	6.45	42.01	30.18	54.00	-23.82	Vertical
2500.00	32.53	27.70	6.47	42.00	24.70	54.00	-29.30	Vertical

Test mode:	802.11g	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.48	27.14	6.19	42.04	30.77	74.00	-43.23	Horizontal
2390.00	47.76	27.37	6.31	42.11	39.33	74.00	-34.67	Horizontal
2310.00	38.01	27.14	6.19	42.04	29.30	74.00	-44.70	Vertical
2390.00	48.97	27.37	6.31	42.11	40.54	74.00	-33.46	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.87	27.14	6.19	42.04	21.16	54.00	-32.84	Horizontal
2390.00	36.92	27.37	6.31	42.11	28.49	54.00	-25.51	Horizontal
2310.00	28.51	27.14	6.19	42.04	19.80	54.00	-34.20	Vertical
2390.00	38.88	27.37	6.31	42.11	30.45	54.00	-23.55	Vertical

Test mode:	802.11g	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.20	27.66	6.45	42.01	40.30	74.00	-33.70	Horizontal
2500.00	40.73	27.70	6.47	42.00	32.90	74.00	-41.10	Horizontal
2483.50	48.02	27.66	6.45	42.01	40.12	74.00	-33.88	Vertical
2500.00	41.86	27.70	6.47	42.00	34.03	74.00	-39.97	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.90	27.66	6.45	42.01	29.00	54.00	-25.00	Horizontal
2500.00	33.42	27.70	6.47	42.00	25.59	54.00	-28.41	Horizontal
2483.50	37.65	27.66	6.45	42.01	29.75	54.00	-24.25	Vertical
2500.00	32.21	27.70	6.47	42.00	24.38	54.00	-29.62	Vertical

Test mode:	802.11n(HT20)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.99	27.14	6.19	42.04	31.28	74.00	-42.72	Horizontal
2390.00	48.44	27.37	6.31	42.11	40.01	74.00	-33.99	Horizontal
2310.00	38.55	27.14	6.19	42.04	29.84	74.00	-44.16	Vertical
2390.00	49.79	27.37	6.31	42.11	41.36	74.00	-32.64	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	30.23	27.14	6.19	42.04	21.52	54.00	-32.48	Horizontal
2390.00	37.34	27.37	6.31	42.11	28.91	54.00	-25.09	Horizontal
2310.00	28.92	27.14	6.19	42.04	20.21	54.00	-33.79	Vertical
2390.00	39.34	27.37	6.31	42.11	30.91	54.00	-23.09	Vertical

Test mode:	802.11n(HT20)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.93	27.66	6.45	42.01	41.03	74.00	-32.97	Horizontal
2500.00	41.29	27.70	6.47	42.00	33.46	74.00	-40.54	Horizontal
2483.50	48.85	27.66	6.45	42.01	40.95	74.00	-33.05	Vertical
2500.00	42.52	27.70	6.47	42.00	34.69	74.00	-39.31	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.34	27.66	6.45	42.01	29.44	54.00	-24.56	Horizontal
2500.00	33.76	27.70	6.47	42.00	25.93	54.00	-28.07	Horizontal
2483.50	38.14	27.66	6.45	42.01	30.24	54.00	-23.76	Vertical
2500.00	32.58	27.70	6.47	42.00	24.75	54.00	-29.25	Vertical

Test mode:	802.11n(HT40)	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	39.47	27.14	6.19	42.04	30.76	74.00	-43.24	Horizontal
2390.00	47.75	27.37	6.31	42.11	39.32	74.00	-34.68	Horizontal
2310.00	38.00	27.14	6.19	42.04	29.29	74.00	-44.71	Vertical
2390.00	48.96	27.37	6.31	42.11	40.53	74.00	-33.47	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.86	27.14	6.19	42.04	21.15	54.00	-32.85	Horizontal
2390.00	36.92	27.37	6.31	42.11	28.49	54.00	-25.51	Horizontal
2310.00	28.51	27.14	6.19	42.04	19.80	54.00	-34.20	Vertical
2390.00	38.88	27.37	6.31	42.11	30.45	54.00	-23.55	Vertical

Test mode:	802.11n(HT40)	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.19	27.66	6.45	42.01	40.29	74.00	-33.71	Horizontal
2500.00	40.72	27.70	6.47	42.00	32.89	74.00	-41.11	Horizontal
2483.50	48.01	27.66	6.45	42.01	40.11	74.00	-33.89	Vertical
2500.00	41.85	27.70	6.47	42.00	34.02	74.00	-39.98	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.90	27.66	6.45	42.01	29.00	54.00	-25.00	Horizontal
2500.00	33.41	27.70	6.47	42.00	25.58	54.00	-28.42	Horizontal
2483.50	37.65	27.66	6.45	42.01	29.75	54.00	-24.25	Vertical
2500.00	32.21	27.70	6.47	42.00	24.38	54.00	-29.62	Vertical

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

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