

Prüfbericht-Nr.: <i>Test report no.:</i>	NN21PWAL 001	Auftrags-Nr.: <i>Order no.:</i>	168320590	Seite 1 von 26 <i>Page 1 of 26</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2021-05-28	
Auftraggeber: <i>Client:</i>	Sungrow Power Supply Co., Ltd. No.1699 Xiyou Rd., New & High Technology Industrial Development Zone, 230088, Hefei, P. R. China			
Prüfgegenstand: <i>Test item:</i>	11 kW EV Charger			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	AC011E-01 (Trademark: SUNGROW)			
Auftrags-Inhalt: <i>Order content:</i>	RED approval			
Prüfgrundlage: <i>Test specification:</i>	EN IEC 62311: 2020 EN IEC 61851-1: 2019 EN 301 489-1 V2.2.3 EN 301 489-3 V2.1.2 (Draft) EN 301 489-17 V3.2.4 EN IEC 61000-6-1: 2019 EN 61000-6-3: 2007+A1 EN IEC 61000-3-2: 2019 EN 61000-3-3: 2013+A1:2019 IEC 61851-21-2: 2018 EN 300 328 V2.2.2 EN 300 330 V2.1.1			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2020-08-20			
Prüfmuster-Nr.: <i>Test sample no.:</i>	210625010-1			
Prüfzeitraum: <i>Testing period:</i>	2020-08-20 - 2021-06-29			
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen STS Test Services Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	 Ryan Yang	genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2021-08-02	Ausstellungsdatum: <i>Issue date:</i>	2021-08-02	
Stellung / Position	Assistant Project Manager	Stellung / Position	Technical Certifier	
Sonstiges / Other: This report is for Wi-Fi 802.11b/g/n of Article 3.2 Radio Spectrum and Article 3.1a Health requirements only. Refer to TÜV Rheinland report NN21PWAL 002 for details of EN 300 220-2 of Article 3.2 Radio Spectrum requirements. Refer to TÜV Rheinland report NN21PWAL 003 for details of Article 3.1b EMC requirements. Refer to TÜV Rheinland report CN21QHP1 001 for details of Article 3.1a Electrical Safety requirements.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

V05

Test Summary

5.1.1 RF OUTPUT POWER

RESULT: Pass

5.1.2 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.3 DUTY CYCLE, TX-SEQUENCE, TX-GAP

RESULT: Not applicable

5.1.4 MEDIUM UTILISATION (MU) FACTOR

RESULT: Not applicable

5.1.5 ADAPTIVITY

RESULT: Pass

5.1.6 OCCUPIED CHANNEL BANDWIDTH

RESULT: Pass

5.1.7 TRANSMITTER UNWANTED EMISSIONS IN THE OOB DOMAIN

RESULT: Pass

5.1.8 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

RESULT: Pass

5.2.1 RECEIVER SPURIOUS EMISSIONS

RESULT: Pass

5.2.2 RECEIVER BLOCKING

RESULT: Pass

5.2.3 GEO-LOCATION CAPABILITY

RESULT: Not applicable

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:
Appendix A: Test Results of Wi-Fi 802.11b/g/n of Article 3.2 Radio Spectrum.

2 Test Sites

2.1 Test Facilities

Shenzhen STS Test Services Co., Ltd.

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Shenzhen STS Test Services Co., Ltd.

Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Power Sensor	Keysight	U2021XA	MY55520005	2020.10.10	2021.10.09
			MY55520006	2020.10.10	2021.10.09
			MY56120038	2020.10.10	2021.10.09
			MY56280002	2020.10.10	2021.10.09
Signal Generator	Agilent	N5182A	MY46240556	2020.10.10	2021.10.09
Signal Analyzer	Agilent	N9020A	MY49100060	2020.10.12	2021.10.11
Universal Radio communication tester	R&S	CMU200	111058	2020.10.12	2021.10.11
Wireless Communications Test Set	R&S	CMW 500	131428	2021.03.04	2022.03.03
Temperature & Humidity	HH660	Mieo	N/A	2020.10.13	2021.10.12
Temperature& Humidity test chamber	Safety test	AG80L	171200018	2021.03.04	2022.03.03
Programmable power supply	Agilent	E3642A	MY40002025	2020.10.12	2021.10.11
Attenuator	HP	8494B	DC-18G	2020.04.30	2021.04.29
AC Power Source	APC	KDF-11010G	F214050035	N.C.R	N.C.R
Router	WAVLINK	WL-WN575A2	WL1512260336	N.C.R	N.C.R
Digit Multi-meter	FLUKEF	15B+	N/A	2020.10.08	2021.10.09

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2019.10.15	2021.10.14
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2020.10.12	2021.10.11
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2020.10.12	2021.10.11
Wireless Communications Test Set	R&S	CMW 500	131428	2021.03.04	2022.03.03
Signal Analyzer	R&S	FSV 40-N	101823	2020.10.10	2021.10.09
Temperature & Humidity	SW-108	SuWei	N/A	2021.03.04	2022.03.03
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N.C.R	N.C.R
Digit Multi-meter	FLUKEF	15B+	N/A	2020.10.08	2021.10.09

2.3 Uncertainty of Measurement

According to the requirement of EN 300 328 V2.2.2, the value of the measurement uncertainty of each parameter is listed as below:

Table 2: Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	±3.6 %
RF Output Power, Conducted	±0.71dB
Power Spectral Density, Conducted	±2.19 dB
Unwanted Emission, Conducted	±0.63dB
All Emissions, Radiated (Below 1GHz)	±2.25dB
All Emissions, Radiated (1GHz-18GHz)	±2.21dB
All Emissions, Radiated (18GHz-25GHz)	±3.46dB
Temperature	±0.5°C
Humidity	±2%
DC and Low Frequency Voltages	±2.1%
Time	±2.8%
Duty Cycle	±3.2%

3 General Product Information

3.1 Product Function and Intended Use

The product is a three-phase AC charger is used for electric vehicle's AC charging, which supports Wi-Fi 802.11 b/g/n and RFID (13.56MHz) function.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Description
Kind of Equipment	11 kW EV Charger
Type Designation	AC011E-01
Trademark	SUNGROW
Operating Voltage	AC 400V $\pm$ 10%, 50/60Hz (three-phase)
Testing Voltage	AC 230V@50Hz (one phase)
Operating Temperature Range	-30 °C ~ +50 °C
Technical Specification of Wi-Fi 802.11 b/g/n	
Characteristic	Description
Frequency Range	2412 - 2472 MHz for 802.11b/g/n(HT20) 2422 - 2462 MHz for 802.11n(HT40)
Type of Modulation	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20) MCS0 ~ MCS7 for 802.11n(HT40)
Channel Number	13 channels for 802.11b/g/n(HT20) 9 channels for 802.11n(HT40)
Channel Separation	5 MHz
Receiver Categories	Receiver category 1
Antenna Type	PIFA antenna
Antenna Gain	3.4 dBi

Table 4: RF Channel and Frequency of Wi-Fi 802.11 b/g/n

RF Channel	802.11 b/g/n(HT20)	802.11 n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	/
02	2417	/
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	2457
11	2462	2462
12	2467	/
13	2472	/

Test frequencies are lowest channel: 2412 MHz, middle channel: 2442 MHz and highest channel: 2472 MHz for 802.11b/g/n(HT20)

Test frequencies are lowest channel: 2422 MHz, middle channel: 2442 MHz and highest channel: 2462 MHz for 802.11n(HT40)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi b/g/n wireless
 - 1 Transmitting (Low / Middle / High channel)
 - 2 Receiving (Low / Middle / High channel)
- B. On, Wi-Fi b/g/n connecting mode
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

For details refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5.

According to clause 3.1, all tests were performed on model AC011E-01 in this report.

This testing was carried out on all different data rates, but only the worst case was presented in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: Auxiliary Equipment used during test

Description	Manufacturer	Model	S/N	Rating
Notebook	DELL	VOSTRO.3800	N/A	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 RF Output Power

RESULT:

Pass

Test Specification

Test standard	: EN 300 328 V2.2.2
Test requirement	: EN 300 328 V2.2.2, Clause 4.3.2.2
Limit	: EN 300 328 V2.2.2, Clause 4.3.2.2.3
Test suites	: EN 300 328 V2.2.2, Clause 5.4.2
Kind of test site	: Shielding Room

Test Setup

Date of testing	: 2020-08-20, 2020-11-06
Test voltage	: AC 230V@50Hz (one phase)
Test environment	: Normal and extreme temperature
Operation mode	: A.1
Test channel	: ☒ Lowest ☒ Middle ☒ Highest
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

Table 6: Test Result of RF Output Power, Wi-Fi 802.11 b/g/n

Test Mode	Test Conditions		Measured e.i.r.p. (dBm)		
			Lowest Channel	Middle Channel	Highest Channel
802.11b 1 Mbps	Normal	24.5 °C	16.51	16.99	17.51
	Extreme	-30 °C	16.31	16.88	17.14
		+50 °C	16.29	16.79	16.77
	Maximum Measured Value			17.51	
802.11g 6 Mbps	Normal	24.5 °C	15.19	15.94	16.13
	Extreme	-30 °C	14.82	15.74	15.64
		+50 °C	14.46	15.26	15.36
	Maximum Measured Value			16.13	
802.11n(HT20) MCS0	Normal	24.5 °C	15.69	15.72	16.06
	Extreme	-30 °C	15.42	15.44	15.94
		+50 °C	15.03	15.21	15.93
	Maximum Measured Value			16.06	
802.11n(HT40) MCS0	Normal	24.5 °C	15.10	14.89	15.09
	Extreme	-30 °C	14.61	14.47	14.65
		+50 °C	14.46	14.37	14.58
	Maximum Measured Value			15.10	
Limit			≤ 100mW (20dBm)		

NOTE:

The RF Output Power (E.I.R.P.) should be calculated using the formula below:

The RF Output Power (E.I.R.P.) = $A_{(RMS\ power)} + G + Y$

Antenna gain(G): 3.4 dBi

5.1.2 Power Spectral Density

RESULT:
Pass
Test Specification

Test standard : EN 300 328 V2.2.2
 Test requirement : EN 300 328 V2.2.2, Clause 4.3.2.3
 Limit : EN 300 328 V2.2.2, Clause 4.3.2.3.3
 Test suites : EN 300 328 V2.2.2, Clause 5.4.3
 Kind of test site : Shielding Room

Test Setup

Date of testing : 2020-08-20, 2020-11-06
 Test voltage : AC 230V@50Hz (one phase)
 Test environment : Normal temperature
 Test channel : ☒ Lowest ☒ Middle ☒ Highest
 Operation mode : A.1
 Ambient temperature : 24.5 °C
 Relative humidity : 50 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 7: Test Result of Power Spectral Density

Test Mode	Test Channel (MHz)	Power Spectrum Density(dBm/MHz)	Limit (dBm/MHz)
802.11b 1 Mbps	2412	7.64	< 10
	2442	8.13	
	2472	8.61	
802.11g 6 Mbps	2412	3.65	
	2442	4.36	
	2472	4.53	
802.11n (HT20) MCS0	2412	3.84	
	2442	3.92	
	2472	4.13	
802.11n (HT40) MCS0	2422	0.70	
	2442	0.12	
	2462	0.63	
Maximum Measured Value		8.61	

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5.1.3 Duty Cycle, TX-sequence, TX-gap

RESULT:

Not applicable

Test Specification

Test standard : EN 300 328 V2.2.2
Test requirement : EN 300 328 V2.2.2, Clause 4.3.2.4

Exemption Condition(s):

☒ These requirements apply to non-adaptive equipment or to adaptive equipment when operating in non-adaptive mode. The equipment is using wide band modulations other than FHSS.

Conclusion:

The EUT is adaptive equipment and does not support non-adaptive mode, hence this requirement is not applicable.

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5.1.4 Medium Utilisation (MU) Factor

RESULT:

Not applicable

Test Specification

Test standard : EN 300 328 V2.2.2
Test requirement : EN 300 328 V2.2.2, Clause 4.3.2.5

Exemption Condition(s):

☒ These requirements apply to non-adaptive equipment or to adaptive equipment when operating in non-adaptive mode. The equipment is using wide band modulations other than FHSS.

Conclusion:

The EUT is adaptive equipment and does not support non-adaptive mode, hence this requirement is not applicable.

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5.1.5 Adaptivity

RESULT:

Pass

Test Specification

Test standard : EN 300 328 V2.2.2
Test requirement : EN 300 328 V2.2.2, Clause 4.3.2.6
Limit : EN 300 328 V2.2.2, Clause 4.3.2.6
Test suites : EN 300 328 V2.2.2, Clause 5.4.6
Kind of test site : Shielding Room

Test Setup

Date of testing : 2020-08-20, 2020-11-06
Test voltage : AC 230V@50Hz (one phase)
Test environment : Normal temperature
Test channel : ☒ Lowest ☐ Middle ☒ Highest
Operation mode : B
Ambient temperature : 24.5 °C
Relative humidity : 50 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

5.1.6 Occupied Channel Bandwidth

RESULT:
Pass
Test Specification

Test standard : EN 300 328 V2.2.2
 Test requirement : EN 300 328 V2.2.2, Clause 4.3.2.7
 Limit : EN 300 328 V2.2.2, Clause 4.3.2.7.3
 Test suites : EN 300 328 V2.2.2, Clause 5.4.7
 Kind of test site : Shielding Room

Test Setup

Date of testing : 2020-08-20, 2020-11-06
 Test voltage : AC 230V@50Hz (one phase)
 Test environment : Normal temperature
 Test channel : ☒ Lowest ☐ Middle ☒ Highest
 Operation mode : A.1
 Ambient temperature : 24.5 °C
 Relative humidity : 50 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 8: Test Result of Occupied Channel Bandwidth

Test Mode	Test Channel (MHz)	Occupied Channel Bandwidth (MHz)	Limit
802.11b 1 Mbps	2412	13.05	/
	2472	13.06	
802.11g 6 Mbps	2412	16.61	
	2472	16.61	
802.11n (HT20) MCS0	2412	17.58	
	2472	17.57	
802.11n (HT40) MCS0	2422	36.39	
	2462	36.42	
Maximum Measured Value		36.42	

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Page 17 of 26**5.1.7 Transmitter Unwanted Emissions in the OOB Domain****RESULT:****Pass****Test Specification**

Test standard : EN 300 328 V2.2.2
Test requirement : EN 300 328 V2.2.2, Clause 4.3.2.8
Limit : EN 300 328 V2.2.2, Clause 4.3.2.8.3
Test suites : EN 300 328 V2.2.2, Clause 5.4.8
Kind of test site : Shielding Room

Test Setup

Date of testing : 2020-08-20, 2020-11-06
Test voltage : AC 230V@50Hz (one phase)
Test environment : Normal temperature
Test channel : ☒ Lowest ☐ Middle ☒ Highest
Operation mode : B
Ambient temperature : 24.5 °C
Relative humidity : 50 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.8 Transmitter Unwanted Emissions in the Spurious Domain

RESULT:

Pass

Test Specification

Test standard : EN 300 328 V2.2.2
Test requirement : EN 300 328 V2.2.2, Clause 4.3.2.9
Limit : EN 300 328 V2.2.2, Clause 4.3.2.9.3
Test suites : EN 300 328 V2.2.2, Clause 5.4.9
Kind of test site : 3m Fully Anechoic Room

Test Setup

Date of testing : 2021-06-25
Test voltage : AC 230V@50Hz (one phase)
Test environment : Normal temperature
Operation mode : A.1
Test channel : ☒ Lowest ☐ Middle ☒ Highest
Ambient temperature : Refer to test results
Relative humidity : Refer to test results
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.2 Receiver Requirement & Test Suites

5.2.1 Receiver Spurious Emissions

RESULT:

Pass

Test Specification

Test standard	: EN 300 328 V2.2.2
Test requirement	: EN 300 328 V2.2.2, Clause 4.3.2.10
Limit	: EN 300 328 V2.2.2, Clause 4.3.2.10.3
Test suites	: EN 300 328 V2.2.2, Clause 5.4.10
Kind of test site	: 3m Fully Anechoic Room

Test Setup

Date of testing	: 2021-06-29
Test voltage	: AC 230V@50Hz (one phase)
Test environment	: Normal temperature
Operation mode	: A.2
Test channel	: ☒ Lowest ☐ Middle ☒ Highest
Ambient temperature	: Refer to test results
Relative humidity	: Refer to test results
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.2.2 Receiver Blocking

RESULT:

Pass

Test Specification

Test standard	: EN 300 328 V2.2.2
Test requirement	: EN 300 328 V2.2.2, Clause 4.3.2.11
Limit	: EN 300 328 V2.2.2, Clause 4.3.2.11.3
Test suites	: EN 300 328 V2.2.2, Clause 5.4.11
Kind of test site	: Shielding Room

Test Setup

Date of testing	: 2020-08-20, 2020-11-06
Test voltage	: AC 230V@50Hz (one phase)
Test environment	: Normal temperature
Operation mode	: A.2
Test channel	: ☒ Lowest ☐ Middle ☒ Highest
Ambient temperature	: 24.5 °C
Relative humidity	: 50 %
Atmospheric pressure	: 101 kPa

Receiver category 1

Adaptive equipment with a maximum RF output power greater than 10 dBm e.i.r.p. shall be considered as receiver category 1 equipment.

For the measurement records, refer to the appendix A.

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5.2.3 Geo-location Capability

RESULT:

Not applicable

Test Specification

Test standard : EN 300 328 V2.2.2
Test requirement : EN 300 328 V2.2.2, 4.3.2.12

Exemption Condition(s):

This requirement only applies to equipment with geo-location capability as defined in clause 4.3.2.12.2.

Conclusion:

The EUT is adaptive equipment and does not support geo-location capability, hence this requirement is not applicable.

6 Safety Human Exposure

6.1 Human Exposure to Electromagnetic Fields 0Hz-300GHz

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard : EN IEC 62311: 2020
Limit : 61.00 V/m, 5 A/m

Assumed used distance from EUT to Human, 20 cm separation distance warning is required. In this section, the power density at 20 cm location is calculated to examine if it is lower than the limit.

a) Stand-alone

The electric field strength:

$$E = \sqrt{30PG_{(\theta,\phi)}} / r$$

Antenna gain(G): 3.4 dBi for Wi-Fi b/g/n and 0 dBi for RFID
Reference electromagnetic field strength (E): 61 V/m for Wi-Fi b/g/n, 5 A/m for RFID
Distance from EUT to Human (r): 0.20 m
Input power to antenna (P): refer to below table

Table 9: Test Result of Max. Measured E Field Strength

Test Mode	Maximum Output Power (dBm)	Maximum Output Power (mW)	E Field Strength (V/m)	E Field Strength Limit (V/m)	Result
b / 1 Mbps	17.51	56.36	6.50	61.00	Pass
g / 6 Mbps	16.13	41.02	5.55	61.00	Pass
n(HT20) / MCS0	16.06	40.36	5.50	61.00	Pass
n(HT40) / MCS0	15.10	32.36	4.93	61.00	Pass

Table 10: Test Result of H-Field Strength

Test Frequency (MHz)	Test Distance (mm)	Max. H-Field Strength (A/m)	H-Field Strength Limit (A/m)	Result
13.56	0	Far below the limit	5	Pass

b) Simultaneous Transmission

The product has multiple transmitters, the Simultaneous Transmission possibilities are listing below:

Simultaneous Tx Combination	Configuration
1	Wi-Fi 802.11 b/g/n + 13.56MHz

The Simultaneous Transmission expected exposure in electric field strength on a given point can be made with the following equation:

Exposure field strengths can be compared to the reference levels on an rss basis:

$$\sum_{i=100 \text{ kHz}}^{1 \text{ MHz}} \left(\frac{E_i}{c} \right)^2 + \sum_{i>1 \text{ MHz}}^{300 \text{ GHz}} \left(\frac{E_i}{E_{L,i}} \right)^2 \leq 1$$

and

$$\sum_{i=100 \text{ kHz}}^{1 \text{ MHz}} \left(\frac{H_i}{d} \right)^2 + \sum_{i>1 \text{ MHz}}^{300 \text{ GHz}} \left(\frac{H_i}{H_{L,i}} \right)^2 \leq 1$$

where

E_i is the electric field strength at frequency i ;

E_i is the electric field strength at frequency i ;

E_i is the electric field strength at frequency i ;

$H_{L,i}$ is the magnetic field reference level ;

c is $87/f^{1/2}$ V/m (f in MHz) ;

d is $0,73/f$ A/m (f in MHz).

Table 11: Test Result of Simultaneous Transmission of EUT

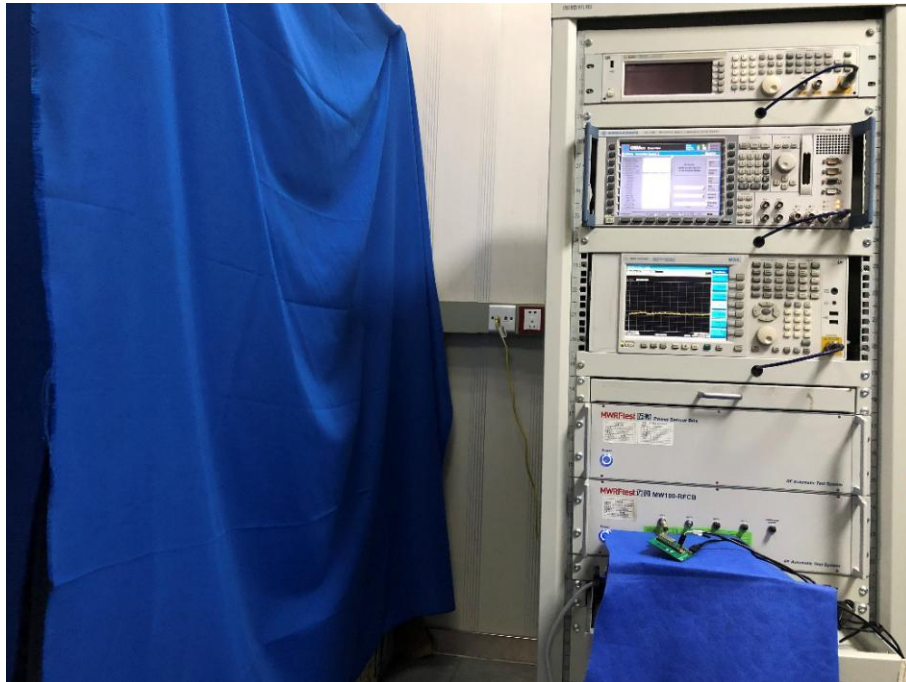
No.	Test Mode	Value (V/m)	Limit (V/m)	Sum	Limit
1	Wi-Fi 802.11 b/g/n+13.56MHz	6.50	61.00	0.011	1
		--	--		

Conclusion:

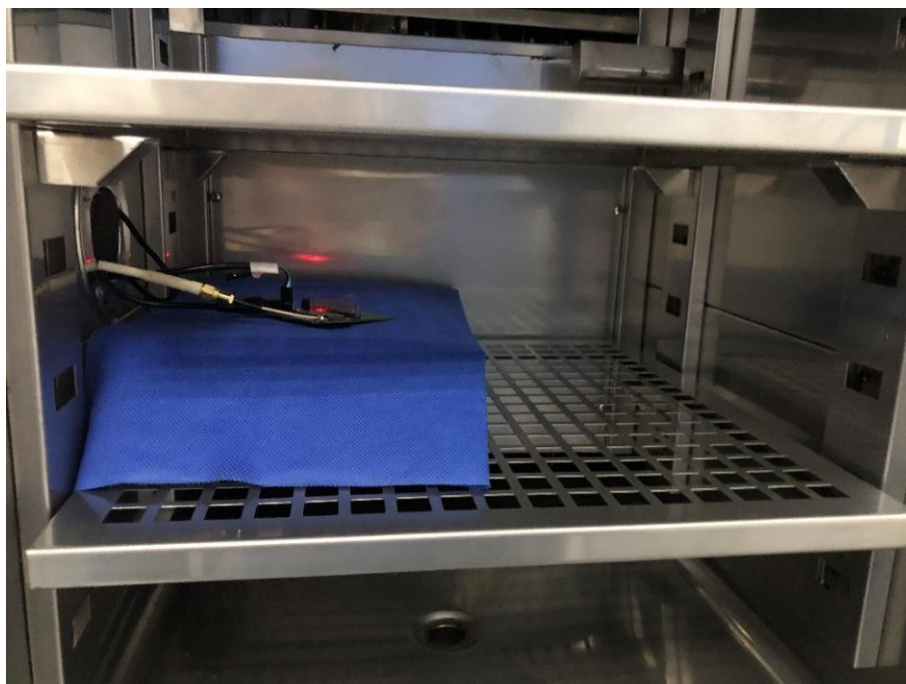
The device complies with the EMF directive 1999/519/EC exposure requirements since the maximum Electric Field is less than the limit 61V/m.

7 Photographs of the Test Set-Up

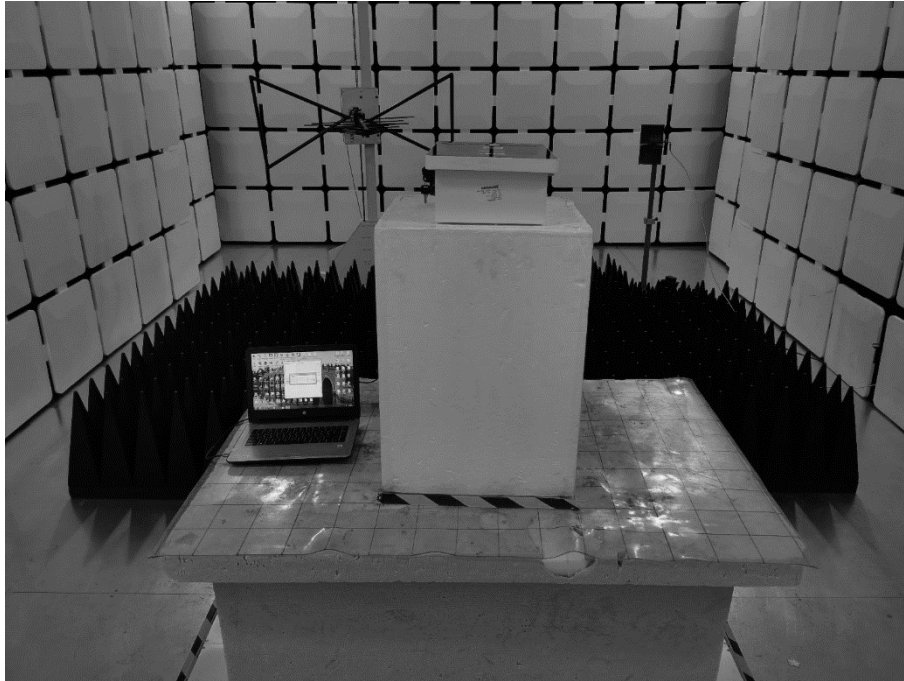
Photograph 1: Set-up for Radio Spectrum Testing, Normal Condition



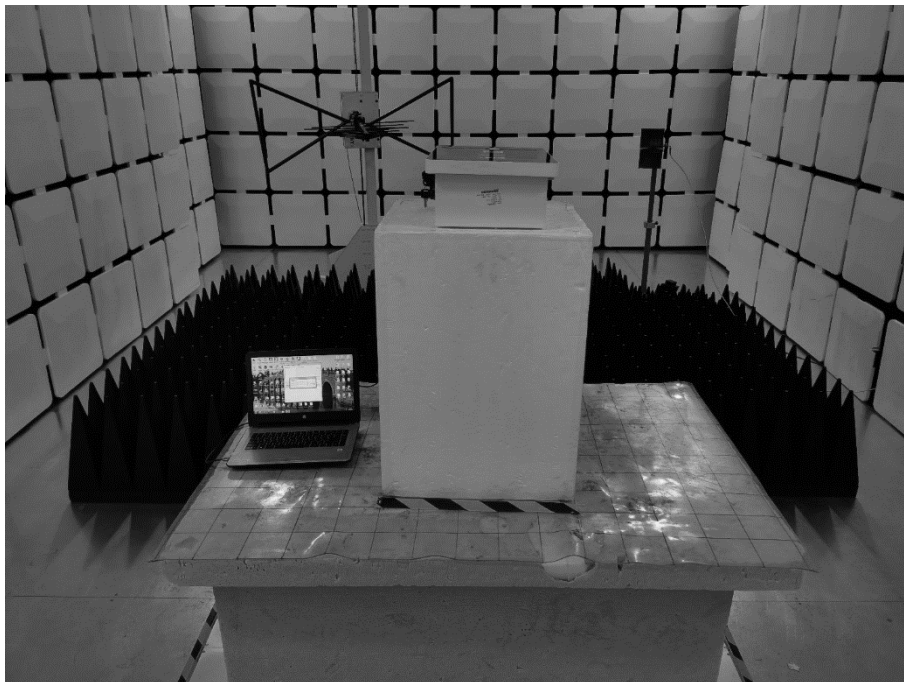
Photograph 2: Set-up for Radio Spectrum Testing, Extreme Condition



Photograph 3: Set-up for Transmitter & Receiver Spurious Emissions, Below 1GHz



Photograph 4: Set-up for Transmitter & Receiver Spurious Emissions, Above 1GHz



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Appendix A.1: Test Results of Adaptivity

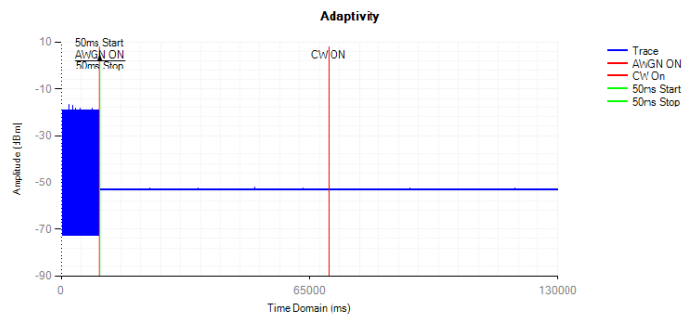
Wi-Fi 802.11 b mode(1 Mbps)

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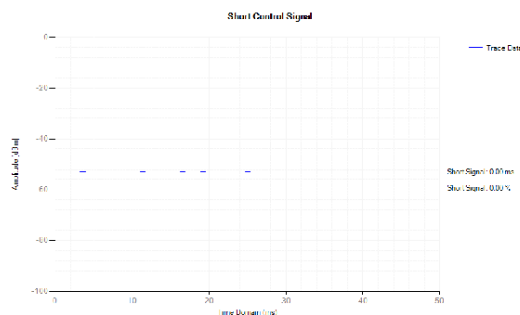
5.4.6 Adaptivity

Condition	Mode	Frequency (MHz)	AWGN Level (dBm)	CW Level (dBm)	Short Control Width (ms)	Short Control Ratio(%)	Limit (%)	Verdict
NVNT	802.11b	2412	-66.51	-35	0	0	<=10	Pass
NVNT	802.11b	2472	-67.51	-35	0	0	<=10	Pass
NVNT	802.11g	2412	-65.19	-35	0	0	<=10	Pass
NVNT	802.11g	2472	-66.13	-35	0	0	<=10	Pass
NVNT	802.11n(HT20)	2412	-65.69	-35	0	0	<=10	Pass
NVNT	802.11n(HT20)	2472	-66.06	-35	0	0	<=10	Pass
NVNT	802.11n(HT40)	2422	-65.10	-35	0	0	<=10	Pass
NVNT	802.11n(HT40)	2462	-65.09	-35	0	0	<=10	Pass

Adaptivity NVNT 802.11b 2412MHz

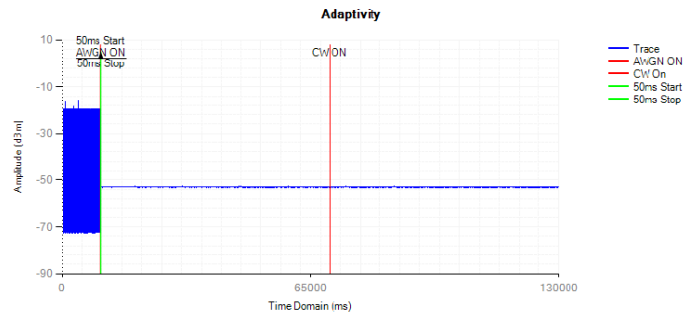


ControlSignalNVNT 802.11b 2412MHz

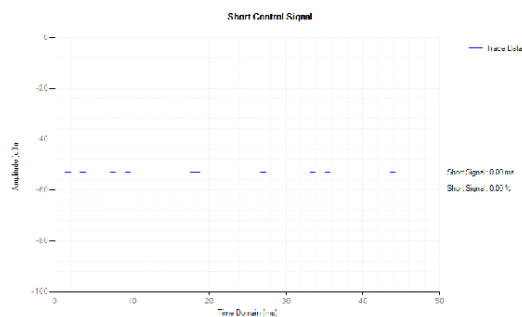


Report No.:000001

Adaptivity NVNT 802.11b 2472MHz



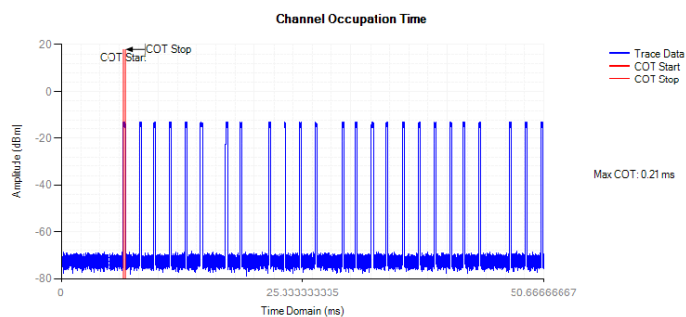
ControlSignalNVNT 802.11b 2472MHz



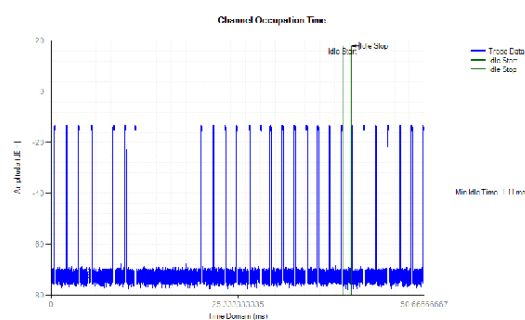
5.4.6 Adaptivity COT Channel Occupancy Time

Condition	Mode	Frequency (MHz)	Priority Class	Max COT (ms)	Limit COT (ms)	Min Idle Time (ms)	Limit Idle Time (ms)	Verdict
NVNT	802.11b	2412	1	0.212	<=13	1.106	>0.018	Pass
NVNT	802.11b	2472	1	0.213	<=13	1.115	>0.018	Pass
NVNT	802.11g	2412	1	2.454	<=13	0.073	>0.018	Pass
NVNT	802.11g	2472	1	1.800	<=13	0.1	>0.018	Pass
NVNT	802.11n(HT20)	2412	1	2.217	<=13	0.054	>0.018	Pass
NVNT	802.11n(HT20)	2472	1	2.217	<=13	0.046	>0.018	Pass
NVNT	802.11n(HT40)	2422	1	0.044	<=13	0.087	>0.018	Pass
NVNT	802.11n(HT40)	2462	1	0.044	<=13	0.269	>0.018	Pass

COT NVNT 802.11b 2412MHz

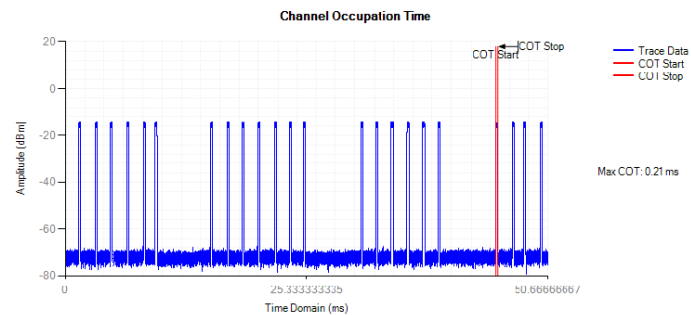


Idle NVNT 802.11b 2412MHz

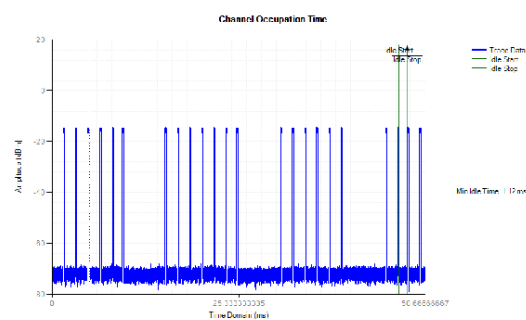


Report No.:000001

COT NVNT 802.11b 2472MHz



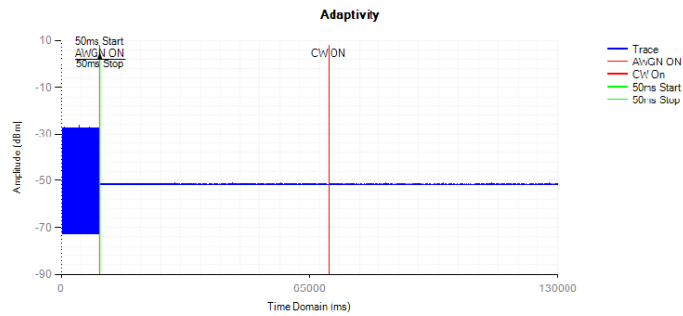
Idle NVNT 802.11b 2472MHz



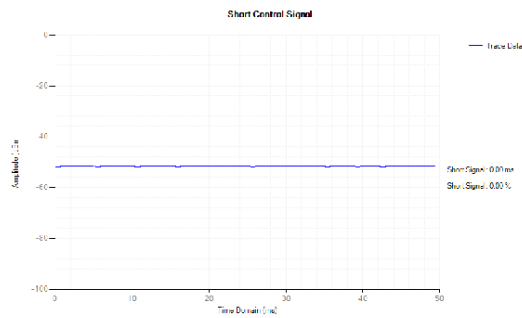
Wi-Fi 802.11 g mode(6 Mbps)

Report No.:000001

Adaptivity NVNT 802.11g 2412MHz

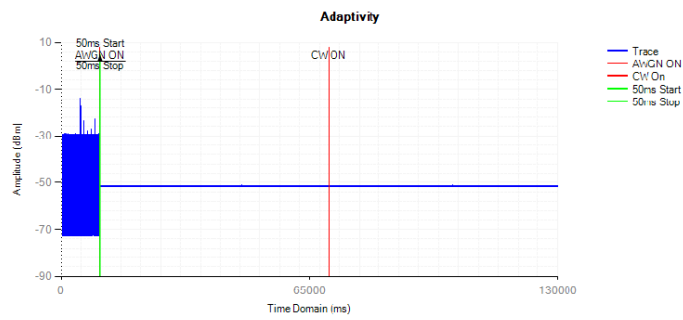


ControlSignalNVNT 802.11g 2412MHz

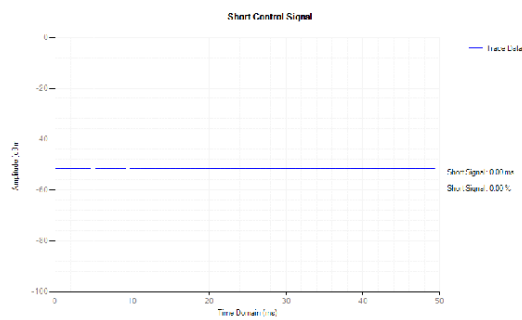


Report No.:000001

Adaptivity NVNT 802.11g 2472MHz

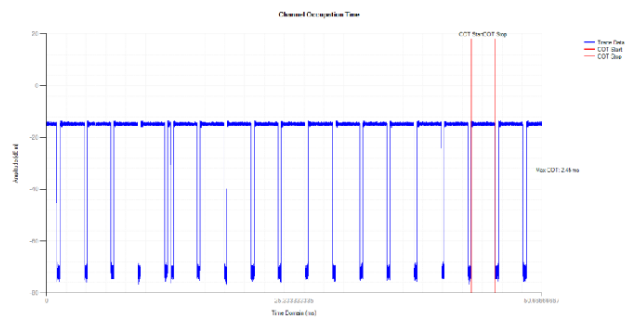


Control Signal NVNT 802.11g 2472MHz

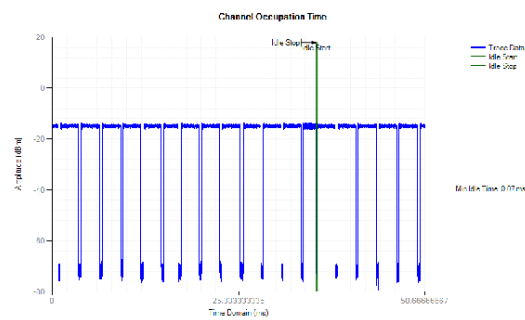


Report No.:000001

COT NVNT 802.11g 2412MHz

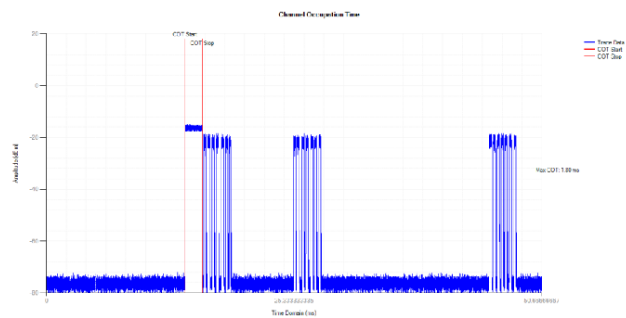


Idle NVNT 802.11g 2412MHz

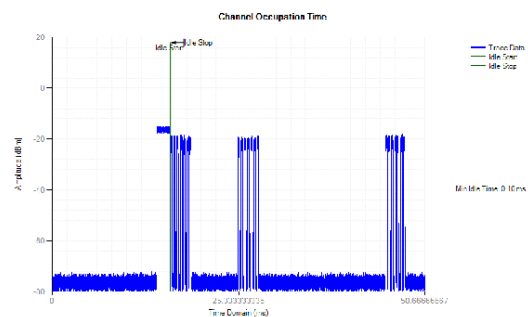


Report No.:000001

COT NVNT 802.11g 2472MHz



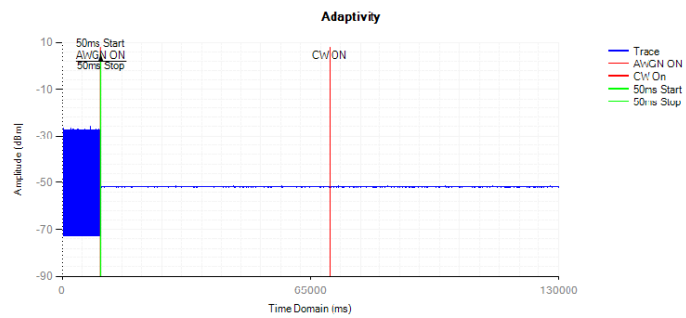
Idle NVNT 802.11g 2472MHz



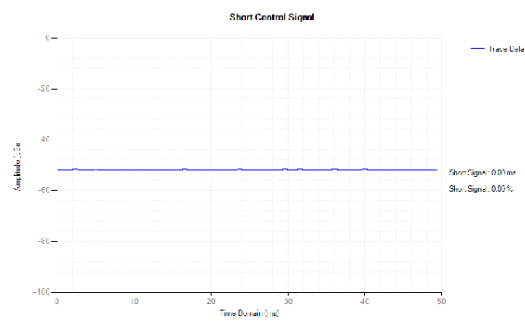
Wi-Fi 802.11 n(HT20) mode, MCS0

Report No.:000001

Adaptivity NVNT 802.11n(HT20) 2412MHz

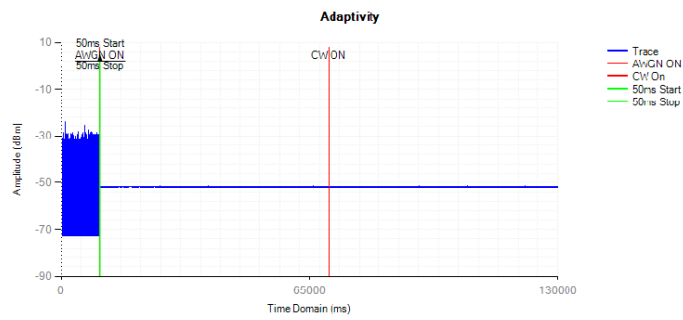


Control Signal NVNT 802.11n(HT20) 2412MHz

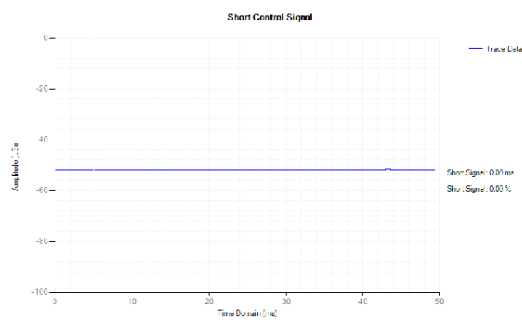


Report No.:000001

Adaptivity NVNT 802.11n(HT20) 2472MHz

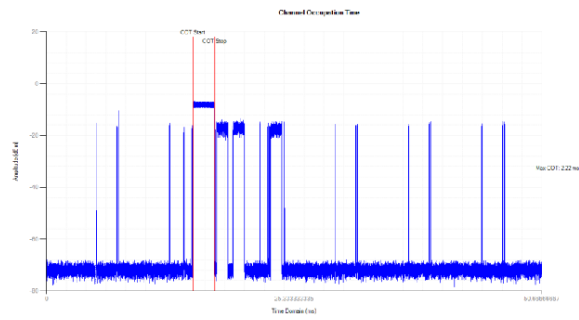


ControlSignalNVNT 802.11n(HT20) 2472MHz

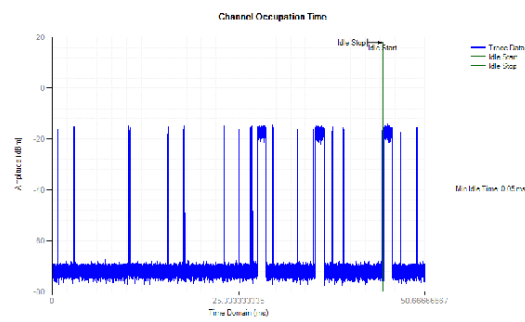


Report No.:000001

COT NVNT 802.11n(HT20) 2412MHz

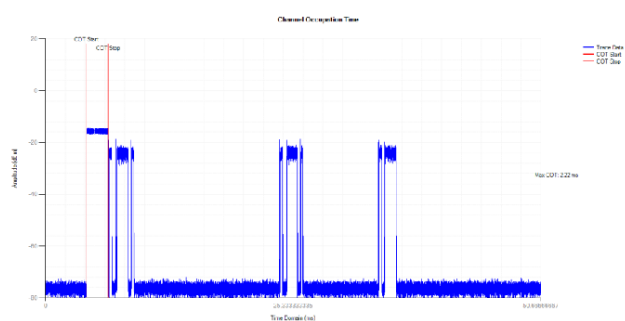


Idle NVNT 802.11n(HT20) 2412MHz

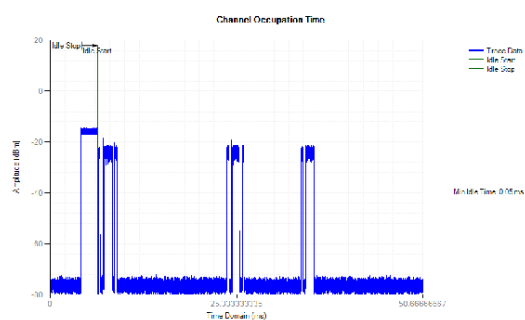


Report No.:000001

COT NVNT 802.11n(HT20) 2472MHz



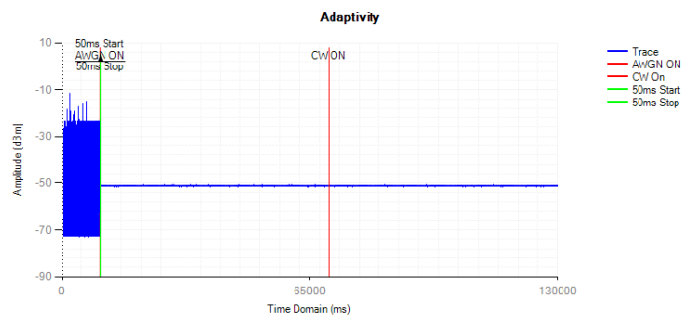
Idle NVNT 802.11n(HT20) 2472MHz



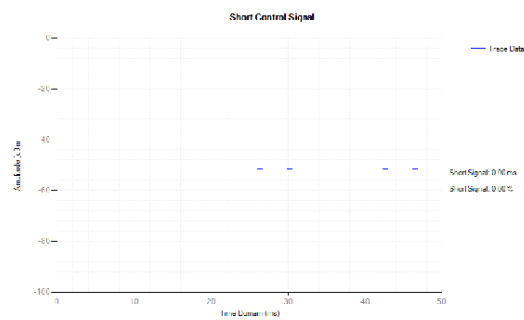
Wi-Fi 802.11 n(HT40) mode, MCS0

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Adaptivity NVNT 802.11n(HT40) 2422MHz

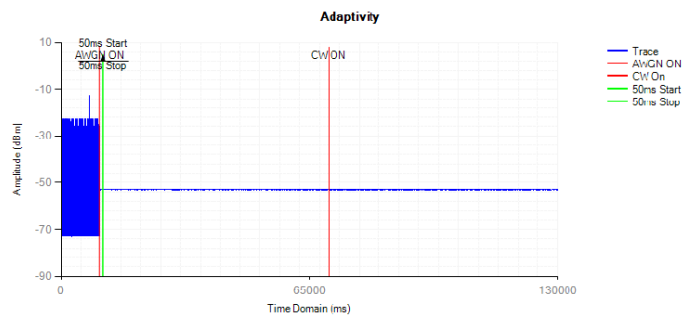


Control Signal NVNT 802.11n(HT40) 2422MHz

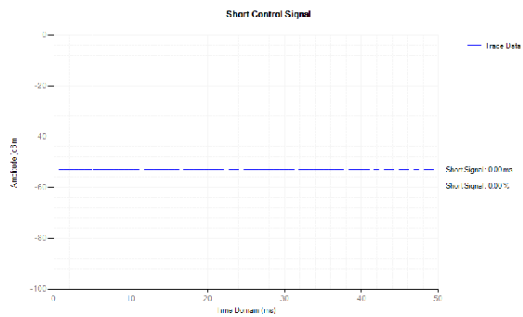


Report No.:000001

Adaptivity NVNT 802.11n(HT40) 2462MHz

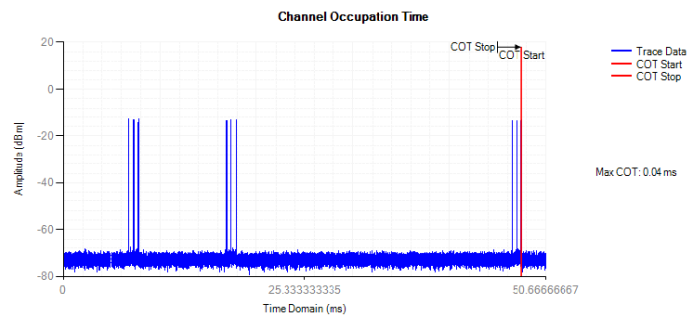


ControlSignalNVNT 802.11n(HT40) 2462MHz

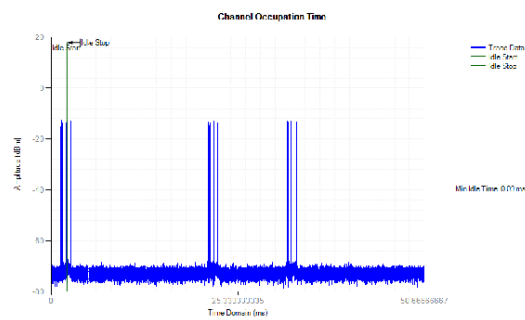


Report No.:000001

COT NVNT 802.11n(HT40) 2422MHz

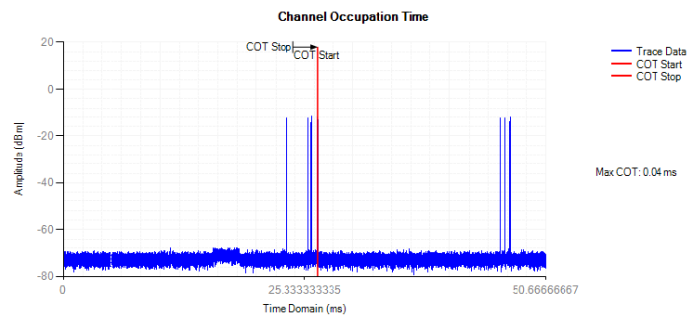


Idle NVNT 802.11n(HT40) 2422MHz

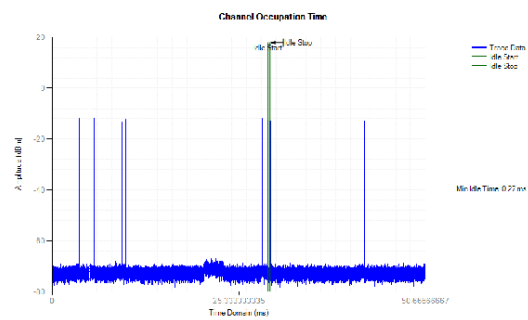


Report No.:000001

COT NVNT 802.11n(HT40) 2462MHz



Idle NVNT 802.11n(HT40) 2462MHz



Appendix A2: Test Results of Transmitter Unwanted Emissions in the Out-of-band Domain

Wi-Fi 802.11 b mode(1 Mbps)

Report No.:000001

5.4.8 Transmitter unwanted emissions in the out-of-band domain

Condition	Mode	Frequency	OOB Frequency	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	802.11b	2412	2399.5	-43.5	-10	Pass
NVNT	802.11b	2412	2398.5	-43.06	-10	Pass
NVNT	802.11b	2412	2397.5	-42.09	-10	Pass
NVNT	802.11b	2412	2396.5	-41.96	-10	Pass
NVNT	802.11b	2412	2395.5	-43.93	-10	Pass
NVNT	802.11b	2412	2394.5	-46.25	-10	Pass
NVNT	802.11b	2412	2393.5	-47.56	-10	Pass
NVNT	802.11b	2412	2392.5	-48.69	-10	Pass
NVNT	802.11b	2412	2391.5	-49.19	-10	Pass
NVNT	802.11b	2412	2390.5	-49.58	-10	Pass
NVNT	802.11b	2412	2389.5	-49.82	-10	Pass
NVNT	802.11b	2412	2388.5	-49.71	-10	Pass
NVNT	802.11b	2412	2387.5	-49.36	-10	Pass
NVNT	802.11b	2412	2387.449	-49.32	-10	Pass
NVNT	802.11b	2412	2386.449	-48.94	-20	Pass
NVNT	802.11b	2412	2385.449	-48.93	-20	Pass
NVNT	802.11b	2412	2384.449	-49.54	-20	Pass
NVNT	802.11b	2412	2383.449	-50.03	-20	Pass
NVNT	802.11b	2412	2382.449	-50.3	-20	Pass
NVNT	802.11b	2412	2381.449	-50.59	-20	Pass
NVNT	802.11b	2412	2380.449	-50.74	-20	Pass
NVNT	802.11b	2412	2379.449	-50.84	-20	Pass
NVNT	802.11b	2412	2378.449	-50.89	-20	Pass
NVNT	802.11b	2412	2377.449	-50.94	-20	Pass
NVNT	802.11b	2412	2376.449	-50.92	-20	Pass
NVNT	802.11b	2412	2375.449	-50.97	-20	Pass
NVNT	802.11b	2412	2374.449	-50.98	-20	Pass
NVNT	802.11b	2412	2374.398	-50.98	-20	Pass
NVNT	802.11b	2472	2484	-39.04	-10	Pass
NVNT	802.11b	2472	2485	-38.51	-10	Pass
NVNT	802.11b	2472	2486	-38.56	-10	Pass
NVNT	802.11b	2472	2487	-38.18	-10	Pass
NVNT	802.11b	2472	2488	-38.99	-10	Pass
NVNT	802.11b	2472	2489	-40.87	-10	Pass
NVNT	802.11b	2472	2490	-43.58	-10	Pass
NVNT	802.11b	2472	2491	-45.75	-10	Pass
NVNT	802.11b	2472	2492	-46.99	-10	Pass
NVNT	802.11b	2472	2493	-47.64	-10	Pass
NVNT	802.11b	2472	2494	-48.01	-10	Pass
NVNT	802.11b	2472	2495	-48.19	-10	Pass
NVNT	802.11b	2472	2496	-47.87	-10	Pass
NVNT	802.11b	2472	2496.061	-47.83	-10	Pass
NVNT	802.11b	2472	2497.061	-47.51	-20	Pass
NVNT	802.11b	2472	2498.061	-47.44	-20	Pass
NVNT	802.11b	2472	2499.061	-47.87	-20	Pass
NVNT	802.11b	2472	2500.061	-48.46	-20	Pass
NVNT	802.11b	2472	2501.061	-49.03	-20	Pass
NVNT	802.11b	2472	2502.061	-49.37	-20	Pass
NVNT	802.11b	2472	2503.061	-49.52	-20	Pass

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NVNT	802.11b	2472	2504.061	-49.57	-20	Pass
NVNT	802.11b	2472	2505.061	-49.67	-20	Pass
NVNT	802.11b	2472	2506.061	-49.73	-20	Pass
NVNT	802.11b	2472	2507.061	-49.74	-20	Pass
NVNT	802.11b	2472	2508.061	-49.78	-20	Pass
NVNT	802.11b	2472	2509.061	-49.73	-20	Pass
NVNT	802.11b	2472	2509.122	-49.73	-20	Pass

Wi-Fi 802.11 g mode(6 Mbps)

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Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	802.11g	2412	2399.5	-33.92	-10	Pass
NVNT	802.11g	2412	2398.5	-37.84	-10	Pass
NVNT	802.11g	2412	2397.5	-39.2	-10	Pass
NVNT	802.11g	2412	2396.5	-41.63	-10	Pass
NVNT	802.11g	2412	2395.5	-42.57	-10	Pass
NVNT	802.11g	2412	2394.5	-43.45	-10	Pass
NVNT	802.11g	2412	2393.5	-44.47	-10	Pass
NVNT	802.11g	2412	2392.5	-44.51	-10	Pass
NVNT	802.11g	2412	2391.5	-45.79	-10	Pass
NVNT	802.11g	2412	2390.5	-46.9	-10	Pass
NVNT	802.11g	2412	2389.5	-47.81	-10	Pass
NVNT	802.11g	2412	2388.5	-48.69	-10	Pass
NVNT	802.11g	2412	2387.5	-49.12	-10	Pass
NVNT	802.11g	2412	2386.5	-49.4	-10	Pass
NVNT	802.11g	2412	2385.5	-49.43	-10	Pass
NVNT	802.11g	2412	2384.5	-49.63	-10	Pass
NVNT	802.11g	2412	2383.893	-49.71	-10	Pass
NVNT	802.11g	2412	2382.893	-49.96	-20	Pass
NVNT	802.11g	2412	2381.893	-50.08	-20	Pass
NVNT	802.11g	2412	2380.893	-50.18	-20	Pass
NVNT	802.11g	2412	2379.893	-50.27	-20	Pass
NVNT	802.11g	2412	2378.893	-50.43	-20	Pass
NVNT	802.11g	2412	2377.893	-50.65	-20	Pass
NVNT	802.11g	2412	2376.893	-50.71	-20	Pass
NVNT	802.11g	2412	2375.893	-50.87	-20	Pass
NVNT	802.11g	2412	2374.893	-50.92	-20	Pass
NVNT	802.11g	2412	2373.893	-51.03	-20	Pass
NVNT	802.11g	2412	2372.893	-51.1	-20	Pass
NVNT	802.11g	2412	2371.893	-51.19	-20	Pass
NVNT	802.11g	2412	2370.893	-51.28	-20	Pass
NVNT	802.11g	2412	2369.893	-51.35	-20	Pass
NVNT	802.11g	2412	2368.893	-51.45	-20	Pass
NVNT	802.11g	2412	2367.893	-51.51	-20	Pass
NVNT	802.11g	2412	2367.286	-51.55	-20	Pass
NVNT	802.11g	2472	2484	-29.63	-10	Pass
NVNT	802.11g	2472	2485	-31.73	-10	Pass
NVNT	802.11g	2472	2486	-32.87	-10	Pass
NVNT	802.11g	2472	2487	-33.63	-10	Pass
NVNT	802.11g	2472	2488	-34.64	-10	Pass
NVNT	802.11g	2472	2489	-34.36	-10	Pass
NVNT	802.11g	2472	2490	-37.68	-10	Pass
NVNT	802.11g	2472	2491	-38.2	-10	Pass
NVNT	802.11g	2472	2492	-38.94	-10	Pass
NVNT	802.11g	2472	2493	-39.89	-10	Pass
NVNT	802.11g	2472	2494	-41.92	-10	Pass
NVNT	802.11g	2472	2495	-43.37	-10	Pass
NVNT	802.11g	2472	2496	-45.81	-10	Pass
NVNT	802.11g	2472	2497	-46.24	-10	Pass
NVNT	802.11g	2472	2498	-46.9	-10	Pass
NVNT	802.11g	2472	2499	-47.13	-10	Pass
NVNT	802.11g	2472	2499.609	-47.28	-10	Pass
NVNT	802.11g	2472	2500.609	-47.45	-20	Pass

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NVNT	802.11g	2472	2501.609	-47.74	-20	Pass
NVNT	802.11g	2472	2502.609	-48.01	-20	Pass
NVNT	802.11g	2472	2503.609	-48.35	-20	Pass
NVNT	802.11g	2472	2504.609	-48.49	-20	Pass
NVNT	802.11g	2472	2505.609	-48.64	-20	Pass
NVNT	802.11g	2472	2506.609	-48.75	-20	Pass
NVNT	802.11g	2472	2507.609	-49	-20	Pass
NVNT	802.11g	2472	2508.609	-49.12	-20	Pass
NVNT	802.11g	2472	2509.609	-49.28	-20	Pass
NVNT	802.11g	2472	2510.609	-49.43	-20	Pass
NVNT	802.11g	2472	2511.609	-49.55	-20	Pass
NVNT	802.11g	2472	2512.609	-49.63	-20	Pass
NVNT	802.11g	2472	2513.609	-49.73	-20	Pass
NVNT	802.11g	2472	2514.609	-49.82	-20	Pass
NVNT	802.11g	2472	2515.609	-49.9	-20	Pass
NVNT	802.11g	2472	2516.218	-49.91	-20	Pass

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Report No.:000001

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	802.11n(HT20)	2412	2399.5	-33.2	-10	Pass
NVNT	802.11n(HT20)	2412	2398.5	-37.39	-10	Pass
NVNT	802.11n(HT20)	2412	2397.5	-40.48	-10	Pass
NVNT	802.11n(HT20)	2412	2396.5	-42.32	-10	Pass
NVNT	802.11n(HT20)	2412	2395.5	-43.1	-10	Pass
NVNT	802.11n(HT20)	2412	2394.5	-43.77	-10	Pass
NVNT	802.11n(HT20)	2412	2393.5	-44.37	-10	Pass
NVNT	802.11n(HT20)	2412	2392.5	-44.63	-10	Pass
NVNT	802.11n(HT20)	2412	2391.5	-45.19	-10	Pass
NVNT	802.11n(HT20)	2412	2390.5	-45.62	-10	Pass
NVNT	802.11n(HT20)	2412	2389.5	-46.44	-10	Pass
NVNT	802.11n(HT20)	2412	2388.5	-47.69	-10	Pass
NVNT	802.11n(HT20)	2412	2387.5	-48.67	-10	Pass
NVNT	802.11n(HT20)	2412	2386.5	-49.35	-10	Pass
NVNT	802.11n(HT20)	2412	2385.5	-49.48	-10	Pass
NVNT	802.11n(HT20)	2412	2384.5	-49.63	-10	Pass
NVNT	802.11n(HT20)	2412	2383.5	-49.77	-10	Pass
NVNT	802.11n(HT20)	2412	2382.923	-49.82	-10	Pass
NVNT	802.11n(HT20)	2412	2381.923	-50.06	-20	Pass
NVNT	802.11n(HT20)	2412	2380.923	-50.16	-20	Pass
NVNT	802.11n(HT20)	2412	2379.923	-50.27	-20	Pass
NVNT	802.11n(HT20)	2412	2378.923	-50.41	-20	Pass
NVNT	802.11n(HT20)	2412	2377.923	-50.48	-20	Pass
NVNT	802.11n(HT20)	2412	2376.923	-50.61	-20	Pass
NVNT	802.11n(HT20)	2412	2375.923	-50.74	-20	Pass
NVNT	802.11n(HT20)	2412	2374.923	-50.87	-20	Pass
NVNT	802.11n(HT20)	2412	2373.923	-50.94	-20	Pass
NVNT	802.11n(HT20)	2412	2372.923	-51.06	-20	Pass
NVNT	802.11n(HT20)	2412	2371.923	-51.18	-20	Pass
NVNT	802.11n(HT20)	2412	2370.923	-51.24	-20	Pass
NVNT	802.11n(HT20)	2412	2369.923	-51.33	-20	Pass
NVNT	802.11n(HT20)	2412	2368.923	-51.4	-20	Pass
NVNT	802.11n(HT20)	2412	2367.923	-51.45	-20	Pass
NVNT	802.11n(HT20)	2412	2366.923	-51.53	-20	Pass
NVNT	802.11n(HT20)	2412	2365.923	-51.58	-20	Pass
NVNT	802.11n(HT20)	2412	2365.346	-51.62	-20	Pass
NVNT	802.11n(HT20)	2472	2484	-29.58	-10	Pass
NVNT	802.11n(HT20)	2472	2485	-31.52	-10	Pass
NVNT	802.11n(HT20)	2472	2486	-32.59	-10	Pass
NVNT	802.11n(HT20)	2472	2487	-33.78	-10	Pass
NVNT	802.11n(HT20)	2472	2488	-35.21	-10	Pass
NVNT	802.11n(HT20)	2472	2489	-36.26	-10	Pass
NVNT	802.11n(HT20)	2472	2490	-36.61	-10	Pass
NVNT	802.11n(HT20)	2472	2491	-38.21	-10	Pass
NVNT	802.11n(HT20)	2472	2492	-38.73	-10	Pass
NVNT	802.11n(HT20)	2472	2493	-39.42	-10	Pass
NVNT	802.11n(HT20)	2472	2494	-40.19	-10	Pass
NVNT	802.11n(HT20)	2472	2495	-41.52	-10	Pass
NVNT	802.11n(HT20)	2472	2496	-43.29	-10	Pass
NVNT	802.11n(HT20)	2472	2497	-45.48	-10	Pass
NVNT	802.11n(HT20)	2472	2498	-46.55	-10	Pass
NVNT	802.11n(HT20)	2472	2499	-47.26	-10	Pass

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NVNT	802.11n(HT20)	2472	2500	-47.43	-10	Pass
NVNT	802.11n(HT20)	2472	2500.574	-47.46	-10	Pass
NVNT	802.11n(HT20)	2472	2501.574	-47.74	-20	Pass
NVNT	802.11n(HT20)	2472	2502.574	-47.98	-20	Pass
NVNT	802.11n(HT20)	2472	2503.574	-48.13	-20	Pass
NVNT	802.11n(HT20)	2472	2504.574	-48.28	-20	Pass
NVNT	802.11n(HT20)	2472	2505.574	-48.47	-20	Pass
NVNT	802.11n(HT20)	2472	2506.574	-48.65	-20	Pass
NVNT	802.11n(HT20)	2472	2507.574	-48.89	-20	Pass
NVNT	802.11n(HT20)	2472	2508.574	-48.97	-20	Pass
NVNT	802.11n(HT20)	2472	2509.574	-49.14	-20	Pass
NVNT	802.11n(HT20)	2472	2510.574	-49.31	-20	Pass
NVNT	802.11n(HT20)	2472	2511.574	-49.47	-20	Pass
NVNT	802.11n(HT20)	2472	2512.574	-49.59	-20	Pass
NVNT	802.11n(HT20)	2472	2513.574	-49.67	-20	Pass
NVNT	802.11n(HT20)	2472	2514.574	-49.76	-20	Pass
NVNT	802.11n(HT20)	2472	2515.574	-49.81	-20	Pass
NVNT	802.11n(HT20)	2472	2516.574	-49.89	-20	Pass
NVNT	802.11n(HT20)	2472	2517.574	-49.97	-20	Pass
NVNT	802.11n(HT20)	2472	2518.148	-50	-20	Pass

Wi-Fi 802.11 n(HT40) mode, MCS0

Report No.:000001

Condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	802.11n(HT40)	2422	2399.5	-44.26	-10	Pass
NVNT	802.11n(HT40)	2422	2398.5	-47.37	-10	Pass
NVNT	802.11n(HT40)	2422	2397.5	-49.52	-10	Pass
NVNT	802.11n(HT40)	2422	2396.5	-52.62	-10	Pass
NVNT	802.11n(HT40)	2422	2395.5	-54.68	-10	Pass
NVNT	802.11n(HT40)	2422	2394.5	-56.23	-10	Pass
NVNT	802.11n(HT40)	2422	2393.5	-58.29	-10	Pass
NVNT	802.11n(HT40)	2422	2392.5	-59.19	-10	Pass
NVNT	802.11n(HT40)	2422	2391.5	-60.66	-10	Pass
NVNT	802.11n(HT40)	2422	2390.5	-61.59	-10	Pass
NVNT	802.11n(HT40)	2422	2389.5	-62.17	-10	Pass
NVNT	802.11n(HT40)	2422	2388.5	-62.62	-10	Pass
NVNT	802.11n(HT40)	2422	2387.5	-63.18	-10	Pass
NVNT	802.11n(HT40)	2422	2386.5	-63.38	-10	Pass
NVNT	802.11n(HT40)	2422	2385.5	-63.58	-10	Pass
NVNT	802.11n(HT40)	2422	2384.5	-63.8	-10	Pass
NVNT	802.11n(HT40)	2422	2383.5	-64.08	-10	Pass
NVNT	802.11n(HT40)	2422	2382.5	-64.4	-10	Pass
NVNT	802.11n(HT40)	2422	2381.5	-64.54	-10	Pass
NVNT	802.11n(HT40)	2422	2380.5	-64.71	-10	Pass
NVNT	802.11n(HT40)	2422	2379.5	-64.87	-10	Pass
NVNT	802.11n(HT40)	2422	2378.5	-65.29	-10	Pass
NVNT	802.11n(HT40)	2422	2377.5	-65.59	-10	Pass
NVNT	802.11n(HT40)	2422	2376.5	-65.86	-10	Pass
NVNT	802.11n(HT40)	2422	2375.5	-66.1	-10	Pass
NVNT	802.11n(HT40)	2422	2374.5	-66.28	-10	Pass
NVNT	802.11n(HT40)	2422	2373.5	-66.56	-10	Pass
NVNT	802.11n(HT40)	2422	2372.5	-66.78	-10	Pass
NVNT	802.11n(HT40)	2422	2371.5	-66.89	-10	Pass
NVNT	802.11n(HT40)	2422	2370.5	-66.97	-10	Pass
NVNT	802.11n(HT40)	2422	2369.5	-67.07	-10	Pass
NVNT	802.11n(HT40)	2422	2368.5	-67.07	-10	Pass
NVNT	802.11n(HT40)	2422	2367.5	-67.1	-10	Pass
NVNT	802.11n(HT40)	2422	2366.5	-67.09	-10	Pass
NVNT	802.11n(HT40)	2422	2365.5	-67.09	-10	Pass
NVNT	802.11n(HT40)	2422	2364.5	-67.07	-10	Pass
NVNT	802.11n(HT40)	2422	2364.109	-67.07	-10	Pass
NVNT	802.11n(HT40)	2422	2363.109	-67.08	-20	Pass
NVNT	802.11n(HT40)	2422	2362.109	-67.09	-20	Pass
NVNT	802.11n(HT40)	2422	2361.109	-67.04	-20	Pass
NVNT	802.11n(HT40)	2422	2360.109	-66.99	-20	Pass
NVNT	802.11n(HT40)	2422	2359.109	-67.04	-20	Pass
NVNT	802.11n(HT40)	2422	2358.109	-67.04	-20	Pass
NVNT	802.11n(HT40)	2422	2357.109	-67.08	-20	Pass
NVNT	802.11n(HT40)	2422	2356.109	-67.08	-20	Pass
NVNT	802.11n(HT40)	2422	2355.109	-67.15	-20	Pass
NVNT	802.11n(HT40)	2422	2354.109	-67.2	-20	Pass
NVNT	802.11n(HT40)	2422	2353.109	-67.25	-20	Pass
NVNT	802.11n(HT40)	2422	2352.109	-67.29	-20	Pass
NVNT	802.11n(HT40)	2422	2351.109	-67.38	-20	Pass
NVNT	802.11n(HT40)	2422	2350.109	-67.46	-20	Pass
NVNT	802.11n(HT40)	2422	2349.109	-67.52	-20	Pass

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NVNT	802.11n(HT40)	2422	2348.109	-67.59	-20	Pass
NVNT	802.11n(HT40)	2422	2347.109	-67.63	-20	Pass
NVNT	802.11n(HT40)	2422	2346.109	-67.67	-20	Pass
NVNT	802.11n(HT40)	2422	2345.109	-67.7	-20	Pass
NVNT	802.11n(HT40)	2422	2344.109	-67.74	-20	Pass
NVNT	802.11n(HT40)	2422	2343.109	-67.75	-20	Pass
NVNT	802.11n(HT40)	2422	2342.109	-67.76	-20	Pass
NVNT	802.11n(HT40)	2422	2341.109	-67.78	-20	Pass
NVNT	802.11n(HT40)	2422	2340.109	-67.76	-20	Pass
NVNT	802.11n(HT40)	2422	2339.109	-67.75	-20	Pass
NVNT	802.11n(HT40)	2422	2338.109	-67.74	-20	Pass
NVNT	802.11n(HT40)	2422	2337.109	-67.7	-20	Pass
NVNT	802.11n(HT40)	2422	2336.109	-67.67	-20	Pass
NVNT	802.11n(HT40)	2422	2335.109	-67.64	-20	Pass
NVNT	802.11n(HT40)	2422	2334.109	-67.57	-20	Pass
NVNT	802.11n(HT40)	2422	2333.109	-67.55	-20	Pass
NVNT	802.11n(HT40)	2422	2332.109	-67.53	-20	Pass
NVNT	802.11n(HT40)	2422	2331.109	-67.51	-20	Pass
NVNT	802.11n(HT40)	2422	2330.109	-67.5	-20	Pass
NVNT	802.11n(HT40)	2422	2329.109	-67.5	-20	Pass
NVNT	802.11n(HT40)	2422	2328.109	-67.53	-20	Pass
NVNT	802.11n(HT40)	2422	2327.718	-67.54	-20	Pass
NVNT	802.11n(HT40)	2462	2484	-42.7	-10	Pass
NVNT	802.11n(HT40)	2462	2485	-46.14	-10	Pass
NVNT	802.11n(HT40)	2462	2486	-49.14	-10	Pass
NVNT	802.11n(HT40)	2462	2487	-51.11	-10	Pass
NVNT	802.11n(HT40)	2462	2488	-52.35	-10	Pass
NVNT	802.11n(HT40)	2462	2489	-54.22	-10	Pass
NVNT	802.11n(HT40)	2462	2490	-54.52	-10	Pass
NVNT	802.11n(HT40)	2462	2491	-55.39	-10	Pass
NVNT	802.11n(HT40)	2462	2492	-55.15	-10	Pass
NVNT	802.11n(HT40)	2462	2493	-55.67	-10	Pass
NVNT	802.11n(HT40)	2462	2494	-56.05	-10	Pass
NVNT	802.11n(HT40)	2462	2495	-56.54	-10	Pass
NVNT	802.11n(HT40)	2462	2496	-56.81	-10	Pass
NVNT	802.11n(HT40)	2462	2497	-57.32	-10	Pass
NVNT	802.11n(HT40)	2462	2498	-57.53	-10	Pass
NVNT	802.11n(HT40)	2462	2499	-58.06	-10	Pass
NVNT	802.11n(HT40)	2462	2500	-58.17	-10	Pass
NVNT	802.11n(HT40)	2462	2501	-58.86	-10	Pass
NVNT	802.11n(HT40)	2462	2502	-59.24	-10	Pass
NVNT	802.11n(HT40)	2462	2503	-59.88	-10	Pass
NVNT	802.11n(HT40)	2462	2504	-60.08	-10	Pass
NVNT	802.11n(HT40)	2462	2505	-60.64	-10	Pass
NVNT	802.11n(HT40)	2462	2506	-60.6	-10	Pass
NVNT	802.11n(HT40)	2462	2507	-61.33	-10	Pass
NVNT	802.11n(HT40)	2462	2508	-61.42	-10	Pass
NVNT	802.11n(HT40)	2462	2509	-61.84	-10	Pass
NVNT	802.11n(HT40)	2462	2510	-62.25	-10	Pass
NVNT	802.11n(HT40)	2462	2511	-62.73	-10	Pass
NVNT	802.11n(HT40)	2462	2512	-63.22	-10	Pass
NVNT	802.11n(HT40)	2462	2513	-63.58	-10	Pass
NVNT	802.11n(HT40)	2462	2514	-63.95	-10	Pass
NVNT	802.11n(HT40)	2462	2515	-64.32	-10	Pass

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NVNT	802.11n(HT40)	2462	2516	-64.58	-10	Pass
NVNT	802.11n(HT40)	2462	2517	-64.71	-10	Pass
NVNT	802.11n(HT40)	2462	2518	-64.78	-10	Pass
NVNT	802.11n(HT40)	2462	2519	-64.84	-10	Pass
NVNT	802.11n(HT40)	2462	2519.42	-64.87	-10	Pass
NVNT	802.11n(HT40)	2462	2520.42	-64.9	-20	Pass
NVNT	802.11n(HT40)	2462	2521.42	-64.96	-20	Pass
NVNT	802.11n(HT40)	2462	2522.42	-65.02	-20	Pass
NVNT	802.11n(HT40)	2462	2523.42	-65.06	-20	Pass
NVNT	802.11n(HT40)	2462	2524.42	-65.09	-20	Pass
NVNT	802.11n(HT40)	2462	2525.42	-65.13	-20	Pass
NVNT	802.11n(HT40)	2462	2526.42	-65.17	-20	Pass
NVNT	802.11n(HT40)	2462	2527.42	-65.21	-20	Pass
NVNT	802.11n(HT40)	2462	2528.42	-65.22	-20	Pass
NVNT	802.11n(HT40)	2462	2529.42	-65.23	-20	Pass
NVNT	802.11n(HT40)	2462	2530.42	-65.23	-20	Pass
NVNT	802.11n(HT40)	2462	2531.42	-65.24	-20	Pass
NVNT	802.11n(HT40)	2462	2532.42	-65.25	-20	Pass
NVNT	802.11n(HT40)	2462	2533.42	-65.25	-20	Pass
NVNT	802.11n(HT40)	2462	2534.42	-65.28	-20	Pass
NVNT	802.11n(HT40)	2462	2535.42	-65.29	-20	Pass
NVNT	802.11n(HT40)	2462	2536.42	-65.32	-20	Pass
NVNT	802.11n(HT40)	2462	2537.42	-65.31	-20	Pass
NVNT	802.11n(HT40)	2462	2538.42	-65.31	-20	Pass
NVNT	802.11n(HT40)	2462	2539.42	-65.34	-20	Pass
NVNT	802.11n(HT40)	2462	2540.42	-65.38	-20	Pass
NVNT	802.11n(HT40)	2462	2541.42	-65.38	-20	Pass
NVNT	802.11n(HT40)	2462	2542.42	-65.43	-20	Pass
NVNT	802.11n(HT40)	2462	2543.42	-65.46	-20	Pass
NVNT	802.11n(HT40)	2462	2544.42	-65.47	-20	Pass
NVNT	802.11n(HT40)	2462	2545.42	-65.49	-20	Pass
NVNT	802.11n(HT40)	2462	2546.42	-65.5	-20	Pass
NVNT	802.11n(HT40)	2462	2547.42	-65.51	-20	Pass
NVNT	802.11n(HT40)	2462	2548.42	-65.54	-20	Pass
NVNT	802.11n(HT40)	2462	2549.42	-65.55	-20	Pass
NVNT	802.11n(HT40)	2462	2550.42	-65.57	-20	Pass
NVNT	802.11n(HT40)	2462	2551.42	-65.58	-20	Pass
NVNT	802.11n(HT40)	2462	2552.42	-65.57	-20	Pass
NVNT	802.11n(HT40)	2462	2553.42	-65.58	-20	Pass
NVNT	802.11n(HT40)	2462	2554.42	-65.59	-20	Pass
NVNT	802.11n(HT40)	2462	2555.42	-65.6	-20	Pass
NVNT	802.11n(HT40)	2462	2555.84	-65.62	-20	Pass

Appendix A.3: Test Results of Transmitter Unwanted Emissions in the Spurious Domain

Wi-Fi 802.11 b mode(1 Mbps)



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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_11.50.46

EUT Name: 11KW EV Charger

Test Engineer: Chris

Mode: 802.11b_H

Test Standard: EN 300328

Model: AC011E-01

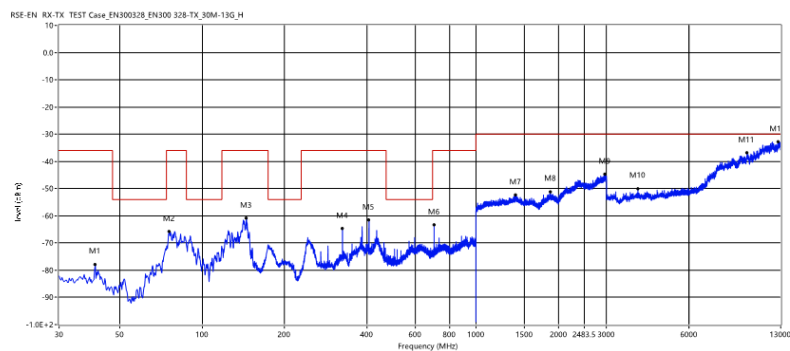
Work Addition:

Temp.(oC): 23.5

Load:

Hum.: 69%

Remark:



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-77.95	-4.74	-36.0	-41.95	65.00	Horizontal	Vertical	Pass
75.832	-65.91	-16.48	-36.0	-29.91	22.70	Horizontal	Vertical	Pass
145.188	-60.94	-7.18	-36.0	-24.94	230.90	Horizontal	Vertical	Pass
325.365	-64.81	-6.74	-36.0	-28.81	76.10	Horizontal	Vertical	Pass
406.845	-61.58	1.51	-36.0	-25.58	343.50	Horizontal	Vertical	Pass
703.180	-63.44	5.17	-36.0	-27.44	118.30	Horizontal	Vertical	Pass
1399.500	-52.41	14.15	-30.0	-22.41	350.30	Horizontal	Vertical	Pass
1870.500	-51.19	14.50	-30.0	-21.19	54.70	Horizontal	Vertical	Pass
2971.000	-44.79	21.10	-30.0	-14.79	82.90	Horizontal	Vertical	Pass
3907.500	-50.11	4.08	-30.0	-20.11	0.70	Horizontal	Vertical	Pass
9802.500	-36.88	18.69	-30.0	-6.88	213.90	Horizontal	Vertical	Pass
12742.500	-33.95	23.22	-30.0	-3.95	132.40	Horizontal	Vertical	Pass



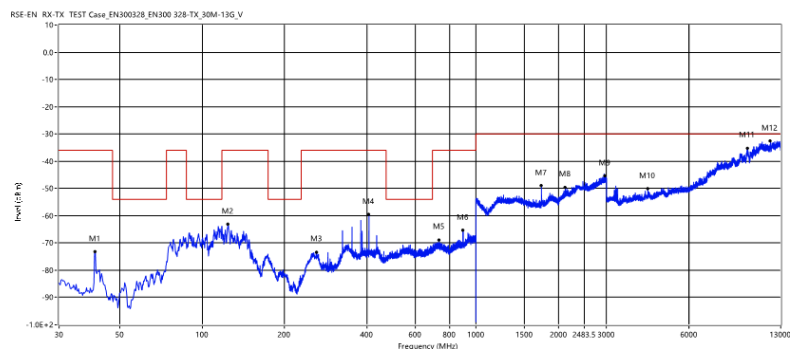
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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_10.23.41

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11b_H	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-73.35	-12.89	-36.0	-37.35	105.40	Vertical	Vertical	Pass
124.090	-63.28	-3.63	-36.0	-27.28	282.40	Vertical	Vertical	Pass
262.315	-73.45	-3.52	-36.0	-37.45	82.80	Vertical	Vertical	Pass
406.845	-59.67	0.01	-36.0	-23.67	282.40	Vertical	Vertical	Pass
733.492	-68.96	7.88	-36.0	-32.96	206.80	Vertical	Vertical	Pass
896.695	-65.42	8.20	-36.0	-29.42	71.70	Vertical	Vertical	Pass
1736.000	-49.00	12.09	-30.0	-19.00	209.50	Vertical	Vertical	Pass
2123.000	-49.60	15.08	-30.0	-19.60	324.70	Vertical	Vertical	Pass
2967.000	-45.40	20.36	-30.0	-15.40	20.80	Vertical	Vertical	Pass
4250.000	-50.13	4.50	-30.0	-20.13	176.60	Vertical	Vertical	Pass
9857.500	-35.27	19.43	-30.0	-5.27	147.50	Vertical	Vertical	Pass
11927.500	-33.76	22.47	-30.0	-3.76	176.60	Vertical	Vertical	Pass



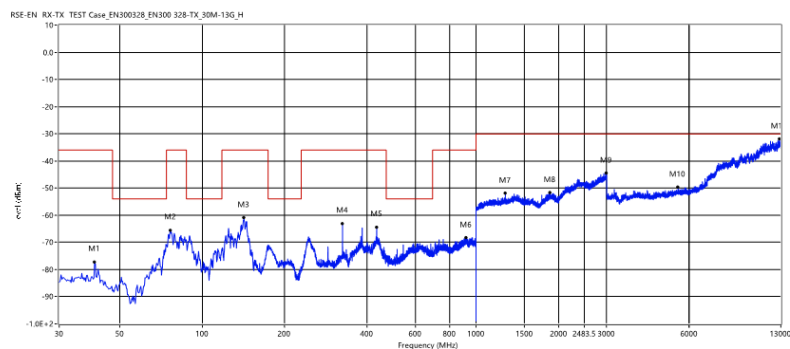
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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_11.47.53

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11b_L	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.428	-77.24	-4.56	-36.0	-41.24	52.30	Horizontal	Vertical	Pass
76.560	-65.55	-16.35	-36.0	-29.55	173.00	Horizontal	Vertical	Pass
142.035	-60.94	-6.58	-36.0	-24.94	226.50	Horizontal	Vertical	Pass
325.365	-63.10	-6.74	-36.0	-27.10	288.50	Horizontal	Vertical	Pass
434.005	-64.45	3.07	-36.0	-28.45	232.30	Horizontal	Vertical	Pass
919.490	-68.27	9.58	-36.0	-32.27	305.20	Horizontal	Vertical	Pass
1280.000	-51.91	12.85	-30.0	-21.91	254.50	Horizontal	Vertical	Pass
1866.000	-51.81	14.49	-30.0	-21.81	18.30	Horizontal	Vertical	Pass
2996.000	-44.62	21.23	-30.0	-14.62	49.20	Horizontal	Vertical	Pass
5472.500	-49.67	5.79	-30.0	-19.67	329.00	Horizontal	Vertical	Pass
12872.500	-34.05	23.81	-30.0	-4.05	360.00	Horizontal	Vertical	Pass



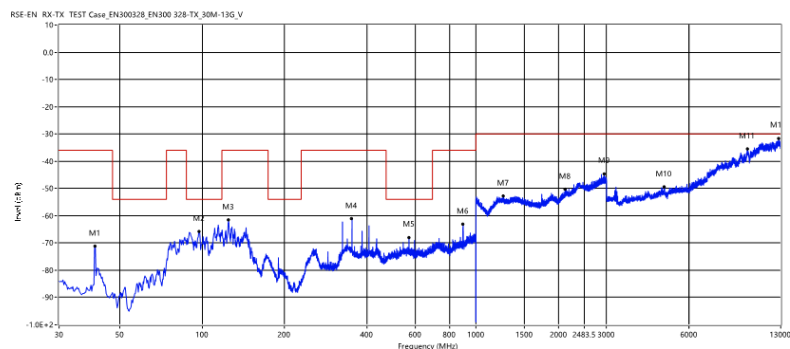
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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_10.18.23

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11b_L	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-71.31	-12.89	-36.0	-35.31	352.70	Vertical	Vertical	Pass
97.658	-65.97	-6.09	-54.0	-11.97	270.60	Vertical	Vertical	Pass
124.817	-61.60	-3.60	-36.0	-25.60	321.30	Vertical	Vertical	Pass
352.525	-61.13	-2.10	-36.0	-25.13	344.20	Vertical	Vertical	Pass
569.562	-68.03	6.00	-54.0	-14.03	205.80	Vertical	Vertical	Pass
898.393	-63.23	8.19	-36.0	-27.23	208.60	Vertical	Vertical	Pass
1262.500	-52.81	13.34	-30.0	-22.81	166.00	Vertical	Vertical	Pass
2126.500	-50.39	15.14	-30.0	-20.39	298.10	Vertical	Vertical	Pass
2945.000	-44.71	20.33	-30.0	-14.71	233.20	Vertical	Vertical	Pass
4895.000	-49.45	5.69	-30.0	-19.45	358.30	Vertical	Vertical	Pass
9857.500	-35.61	19.43	-30.0	-5.61	65.60	Vertical	Vertical	Pass
12805.000	-33.70	23.92	-30.0	-3.70	27.00	Vertical	Vertical	Pass

Wi-Fi 802.11 g mode(6 Mbps)



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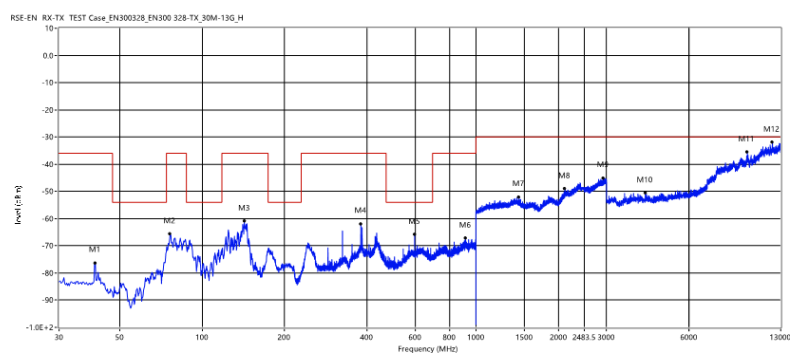
Test Result

Project Number: STS2106192

Test Time: 2021-06-29_11.41.12

EUT Name: 11KW EV Charger
Mode: 802.11g_H
Model: AC011E-01
Temp.(°C): 23.5
Hum.: 69%

Test Engineer: Chris
Test Standard: EN 300328
Work Addition:
Load:
Remark:



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-76.35	-4.74	-36.0	-40.35	110.40	Horizontal	Vertical	Pass
76.317	-65.70	-16.39	-36.0	-29.70	4.30	Horizontal	Vertical	Pass
142.520	-60.95	-6.68	-36.0	-24.95	257.00	Horizontal	Vertical	Pass
379.685	-61.96	-0.59	-36.0	-25.96	248.40	Horizontal	Vertical	Pass
596.722	-65.84	6.13	-54.0	-11.84	0.30	Horizontal	Vertical	Pass
914.640	-67.21	9.39	-36.0	-31.21	118.70	Horizontal	Vertical	Pass
1437.500	-52.10	13.62	-30.0	-22.10	310.90	Horizontal	Vertical	Pass
2115.000	-49.13	16.01	-30.0	-19.13	108.40	Horizontal	Vertical	Pass
2919.000	-45.14	20.78	-30.0	-15.14	257.50	Horizontal	Vertical	Pass
4157.500	-50.67	4.18	-30.0	-20.67	172.80	Horizontal	Vertical	Pass
9807.500	-35.57	18.66	-30.0	-5.57	195.90	Horizontal	Vertical	Pass
12122.500	-34.03	22.67	-30.0	-4.03	352.20	Horizontal	Vertical	Pass



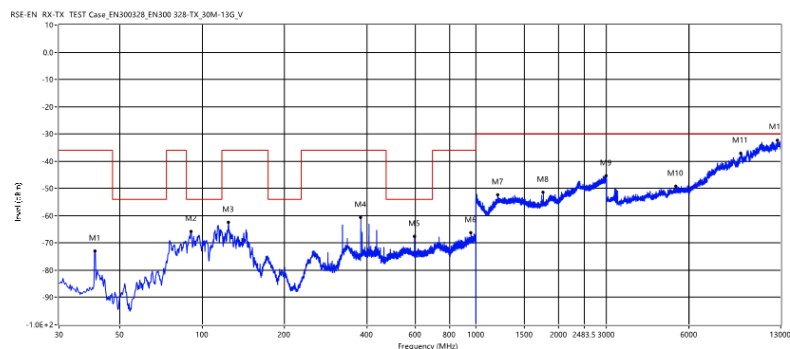
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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_10.34.04

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11g_H	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-73.04	-12.89	-36.0	-37.04	256.60	Vertical	Vertical	Pass
91.110	-65.98	-9.37	-54.0	-11.98	259.30	Vertical	Vertical	Pass
124.817	-62.57	-3.60	-36.0	-26.57	264.90	Vertical	Vertical	Pass
379.685	-60.74	-1.67	-36.0	-24.74	284.40	Vertical	Vertical	Pass
596.722	-67.62	4.85	-54.0	-13.62	358.60	Vertical	Vertical	Pass
959.018	-66.34	10.03	-36.0	-30.34	39.40	Vertical	Vertical	Pass
1202.500	-52.46	13.63	-30.0	-22.46	240.10	Vertical	Vertical	Pass
1764.000	-51.55	12.24	-30.0	-21.55	324.70	Vertical	Vertical	Pass
2995.500	-45.41	20.38	-30.0	-15.41	212.30	Vertical	Vertical	Pass
5380.000	-49.34	6.75	-30.0	-19.34	324.30	Vertical	Vertical	Pass
9302.500	-37.14	19.00	-30.0	-7.14	209.20	Vertical	Vertical	Pass
12652.500	-33.38	23.38	-30.0	-3.38	215.10	Vertical	Vertical	Pass



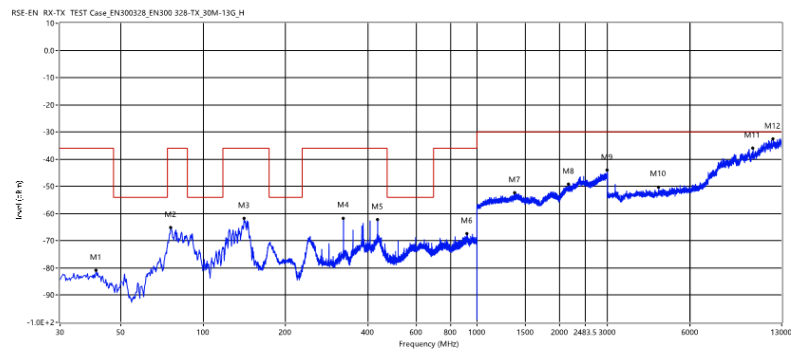
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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_11.44.59

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11g_L	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-80.92	-4.74	-36.0	-44.92	264.70	Horizontal	Vertical	Pass
76.317	-65.17	-16.39	-36.0	-29.17	216.80	Horizontal	Vertical	Pass
141.065	-61.86	-6.40	-36.0	-25.86	253.30	Horizontal	Vertical	Pass
325.365	-61.82	-6.74	-36.0	-25.82	275.80	Horizontal	Vertical	Pass
434.005	-62.35	3.07	-36.0	-26.35	343.30	Horizontal	Vertical	Pass
919.005	-67.44	9.56	-36.0	-31.44	292.80	Horizontal	Vertical	Pass
1378.500	-52.46	13.87	-30.0	-22.46	354.80	Horizontal	Vertical	Pass
2163.000	-49.36	16.56	-30.0	-19.36	48.30	Horizontal	Vertical	Pass
2998.500	-44.15	21.24	-30.0	-14.15	240.30	Horizontal	Vertical	Pass
4617.500	-50.34	4.66	-30.0	-20.34	230.60	Horizontal	Vertical	Pass
10225.000	-36.13	17.44	-30.0	-6.13	86.20	Horizontal	Vertical	Pass
12100.000	-33.67	22.67	-30.0	-3.67	351.90	Horizontal	Vertical	Pass



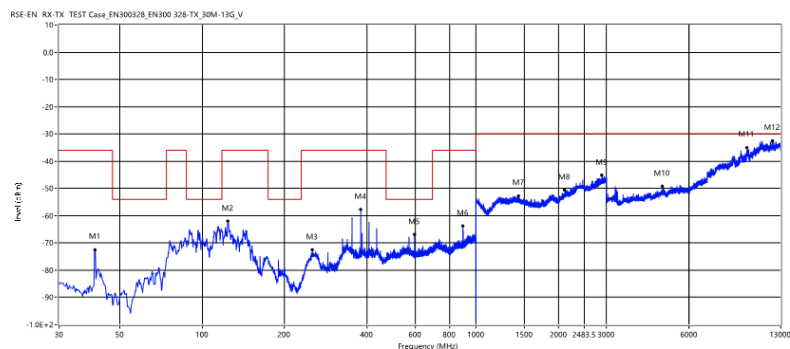
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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_10.30.44

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11g_L	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-72.55	-12.89	-36.0	-36.55	66.80	Vertical	Vertical	Pass
124.332	-62.13	-3.62	-36.0	-26.13	298.80	Vertical	Vertical	Pass
252.615	-72.59	-4.75	-36.0	-36.59	148.60	Vertical	Vertical	Pass
379.685	-57.87	-1.67	-36.0	-21.87	137.50	Vertical	Vertical	Pass
596.722	-66.97	4.85	-54.0	-12.97	352.40	Vertical	Vertical	Pass
896.695	-63.90	8.20	-36.0	-27.90	245.30	Vertical	Vertical	Pass
1433.000	-52.75	13.56	-30.0	-22.75	274.90	Vertical	Vertical	Pass
2115.500	-50.68	14.93	-30.0	-20.68	106.10	Vertical	Vertical	Pass
2888.500	-45.23	20.19	-30.0	-15.23	3.20	Vertical	Vertical	Pass
4817.500	-49.26	5.51	-30.0	-19.26	276.50	Vertical	Vertical	Pass
9799.999	-35.02	19.88	-30.0	-5.02	99.20	Vertical	Vertical	Pass
12145.000	-33.65	22.52	-30.0	-3.65	177.40	Vertical	Vertical	Pass

Wi-Fi 802.11 n(HT20) mode, MCS0



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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_11.37.55

EUT Name: 11KW EV Charger

Test Engineer: Chris

Mode: 802.11n20_H

Test Standard: EN 300328

Model: AC011E-01

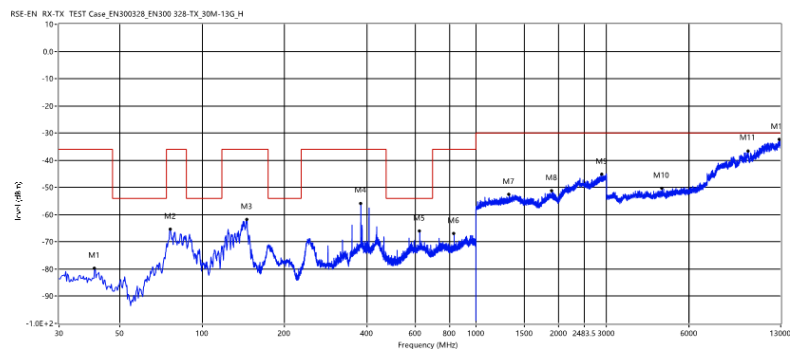
Work Addition:

Temp.(oC): 23.5

Load:

Hum.: 69%

Remark:



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.428	-79.75	-4.56	-36.0	-43.75	359.90	Horizontal	Vertical	Pass
76.560	-65.47	-16.35	-36.0	-29.47	360.00	Horizontal	Vertical	Pass
145.672	-61.92	-7.27	-36.0	-25.92	231.10	Horizontal	Vertical	Pass
379.685	-55.93	-0.59	-36.0	-19.93	298.70	Horizontal	Vertical	Pass
623.882	-66.13	7.27	-54.0	-12.13	231.10	Horizontal	Vertical	Pass
832.190	-67.03	6.92	-36.0	-31.03	307.00	Horizontal	Vertical	Pass
1324.000	-52.59	13.14	-30.0	-22.59	48.60	Horizontal	Vertical	Pass
1898.500	-51.27	14.57	-30.0	-21.27	40.30	Horizontal	Vertical	Pass
2886.500	-45.28	20.66	-30.0	-15.28	4.60	Horizontal	Vertical	Pass
4792.500	-50.45	4.74	-30.0	-20.45	230.00	Horizontal	Vertical	Pass
9885.000	-36.63	18.27	-30.0	-6.63	227.20	Horizontal	Vertical	Pass
12850.000	-33.40	23.71	-30.0	-3.40	47.90	Horizontal	Vertical	Pass



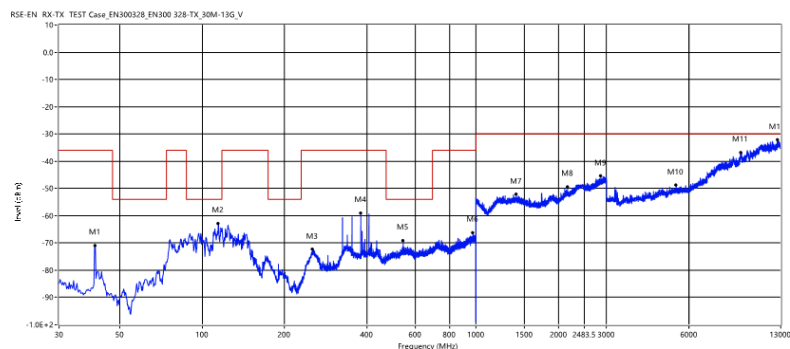
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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_10.37.30

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11n20_H	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-70.95	-12.89	-36.0	-34.95	84.10	Vertical	Vertical	Pass
114.390	-62.86	-4.11	-54.0	-8.86	279.00	Vertical	Vertical	Pass
253.100	-72.43	-4.65	-36.0	-36.43	126.70	Vertical	Vertical	Pass
379.685	-59.06	-1.67	-36.0	-23.06	143.70	Vertical	Vertical	Pass
542.402	-69.17	6.01	-54.0	-15.17	222.80	Vertical	Vertical	Pass
973.810	-66.25	10.29	-36.0	-30.25	296.30	Vertical	Vertical	Pass
1404.000	-52.15	13.80	-30.0	-22.15	27.80	Vertical	Vertical	Pass
2162.500	-49.40	15.50	-30.0	-19.40	255.90	Vertical	Vertical	Pass
2860.000	-45.46	20.07	-30.0	-15.46	354.10	Vertical	Vertical	Pass
5390.000	-48.82	6.74	-30.0	-18.82	137.50	Vertical	Vertical	Pass
9300.000	-36.84	19.04	-30.0	-6.84	302.70	Vertical	Vertical	Pass
12660.000	-33.30	23.38	-30.0	-3.30	328.70	Vertical	Vertical	Pass



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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_11.34.46

EUT Name: 11KW EV Charger

Test Engineer: Chris

Mode: 802.11n20_L

Test Standard: EN 300328

Model: AC011E-01

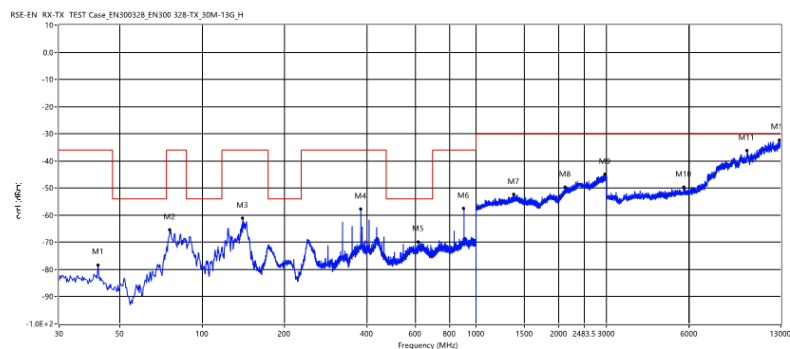
Work Addition:

Temp.(oC): 23.5

Load:

Hum.: 69%

Remark:



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
41.640	-78.37	-5.47	-36.0	-42.37	61.60	Horizontal	Vertical	Pass
76.317	-65.40	-16.39	-36.0	-29.40	208.90	Horizontal	Vertical	Pass
140.822	-61.25	-6.36	-36.0	-25.25	265.40	Horizontal	Vertical	Pass
379.685	-57.78	-0.59	-36.0	-21.78	92.80	Horizontal	Vertical	Pass
617.578	-69.85	7.13	-54.0	-15.85	180.50	Horizontal	Vertical	Pass
904.698	-57.62	9.00	-36.0	-21.62	276.80	Horizontal	Vertical	Pass
1380.000	-52.36	13.89	-30.0	-22.36	166.80	Horizontal	Vertical	Pass
2127.000	-49.70	16.24	-30.0	-19.70	66.10	Horizontal	Vertical	Pass
2964.500	-44.95	21.06	-30.0	-14.95	313.40	Horizontal	Vertical	Pass
5775.000	-49.77	6.46	-30.0	-19.77	0.00	Horizontal	Vertical	Pass
9775.000	-36.29	18.18	-30.0	-6.29	94.90	Horizontal	Vertical	Pass
12852.500	-33.36	23.73	-30.0	-3.36	123.70	Horizontal	Vertical	Pass



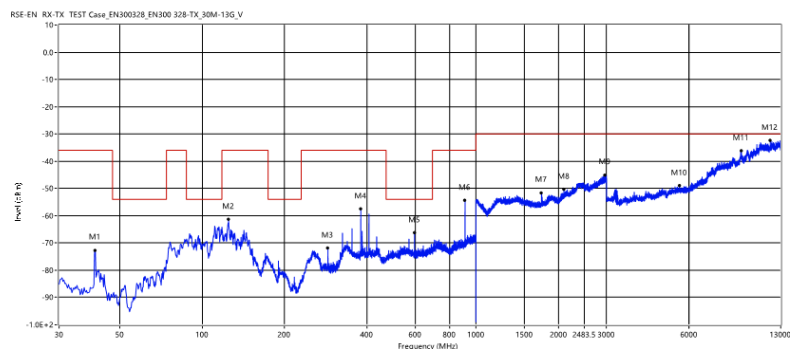
德普华检测中心 Shenzhen STS Test Services C., Ltd.
Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China
Tel: (86)-0755-36886288 FAX: (86)-0755-36886277 <http://www.stsapp.com>

Test Result

Project Number: STS2106192

Test Time: 2021-06-29_10.40.51

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11n20_L	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-72.78	-12.89	-36.0	-36.78	110.30	Vertical	Vertical	Pass
124.817	-61.47	-3.60	-36.0	-25.47	322.00	Vertical	Vertical	Pass
287.778	-72.04	-4.74	-36.0	-36.04	76.10	Vertical	Vertical	Pass
379.685	-57.60	-1.67	-36.0	-21.60	121.50	Vertical	Vertical	Pass
596.722	-66.31	4.85	-54.0	-12.31	355.10	Vertical	Vertical	Pass
912.700	-54.43	8.67	-36.0	-18.43	147.10	Vertical	Vertical	Pass
1738.500	-51.62	12.12	-30.0	-21.62	155.40	Vertical	Vertical	Pass
2098.000	-50.35	14.60	-30.0	-20.35	161.00	Vertical	Vertical	Pass
2961.500	-45.13	20.35	-30.0	-15.13	268.40	Vertical	Vertical	Pass
5545.000	-49.04	6.90	-30.0	-19.04	206.20	Vertical	Vertical	Pass
9327.500	-36.29	18.64	-30.0	-6.29	197.50	Vertical	Vertical	Pass
11915.000	-33.38	22.61	-30.0	-3.38	310.70	Vertical	Vertical	Pass

Wi-Fi 802.11 n(HT40) mode, MCS0



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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_11.27.39

EUT Name: 11KW EV Charger

Test Engineer: Chris

Mode: 802.11n40_H

Test Standard: EN 300328

Model: AC011E-01

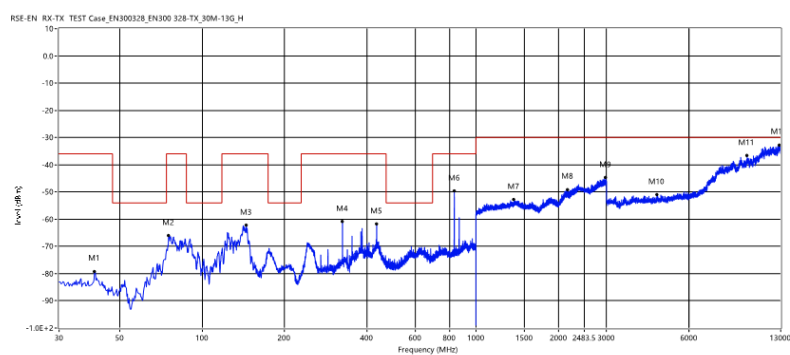
Work Addition:

Temp.(oC): 23.5

Load:

Hum.: 69%

Remark:



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.428	-79.28	-4.56	-36.0	-43.28	358.40	Horizontal	Vertical	Pass
75.348	-66.14	-16.56	-36.0	-30.14	189.30	Horizontal	Vertical	Pass
144.945	-62.36	-7.13	-36.0	-26.36	257.00	Horizontal	Vertical	Pass
325.365	-61.01	-6.74	-36.0	-25.01	333.00	Horizontal	Vertical	Pass
433.763	-61.91	3.06	-36.0	-25.91	242.80	Horizontal	Vertical	Pass
833.402	-49.70	6.99	-36.0	-13.70	6.30	Horizontal	Vertical	Pass
1378.500	-52.84	13.87	-30.0	-22.84	324.90	Horizontal	Vertical	Pass
2162.500	-49.21	16.57	-30.0	-19.21	1.50	Horizontal	Vertical	Pass
2987.000	-44.81	21.18	-30.0	-14.81	339.10	Horizontal	Vertical	Pass
4605.000	-51.06	4.66	-30.0	-21.06	302.70	Horizontal	Vertical	Pass
9795.000	-36.69	18.60	-30.0	-6.69	305.50	Horizontal	Vertical	Pass
12880.000	-33.78	23.84	-30.0	-3.78	111.00	Horizontal	Vertical	Pass



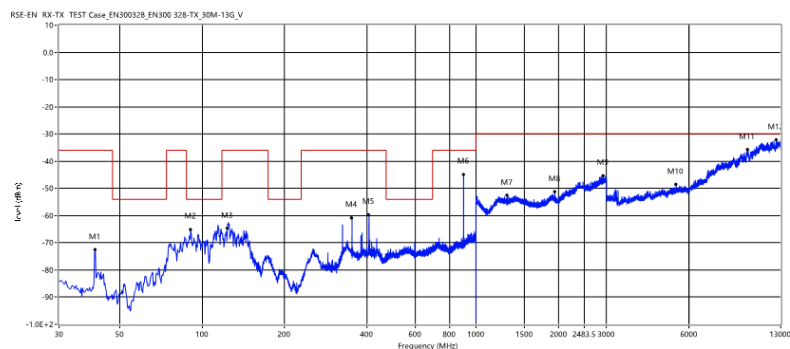
德普华检测中心 Shenzhen STS Test Services C., Ltd.
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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_10.47.11

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11n40_H	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-72.67	-12.89	-36.0	-36.67	140.70	Vertical	Vertical	Pass
90.868	-65.11	-9.49	-54.0	-11.11	273.60	Vertical	Vertical	Pass
123.605	-64.80	-3.65	-36.0	-28.80	327.60	Vertical	Vertical	Pass
352.525	-60.83	-2.10	-36.0	-24.83	319.00	Vertical	Vertical	Pass
406.845	-59.82	0.01	-36.0	-23.82	101.20	Vertical	Vertical	Pass
902.030	-44.94	8.27	-36.0	-8.94	287.50	Vertical	Vertical	Pass
1304.000	-52.68	13.00	-30.0	-22.68	177.70	Vertical	Vertical	Pass
1943.000	-51.26	13.45	-30.0	-21.26	237.00	Vertical	Vertical	Pass
2916.000	-45.36	20.27	-30.0	-15.36	194.70	Vertical	Vertical	Pass
5390.000	-48.57	6.74	-30.0	-18.57	3.40	Vertical	Vertical	Pass
9822.500	-35.90	19.70	-30.0	-5.90	195.30	Vertical	Vertical	Pass
12510.000	-34.11	22.57	-30.0	-4.11	209.80	Vertical	Vertical	Pass



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Test Result

Project Number: STS2106192

Test Time: 2021-06-29_11.31.31

EUT Name: 11KW EV Charger

Test Engineer: Chris

Mode: 802.11n40_L

Test Standard: EN 300328

Model: AC011E-01

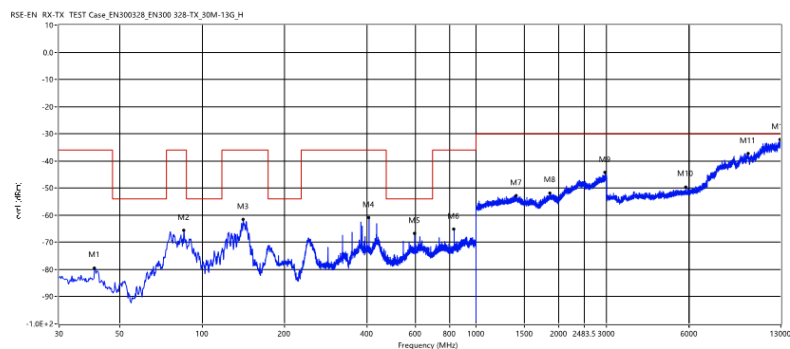
Work Addition:

Temp.(oC): 23.5

Load:

Hum.: 69%

Remark:



Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.428	-79.46	-4.56	-36.0	-43.46	1.00	Horizontal	Vertical	Pass
85.775	-65.73	-15.16	-36.0	-29.73	25.20	Horizontal	Vertical	Pass
141.065	-61.70	-6.40	-36.0	-25.70	276.70	Horizontal	Vertical	Pass
406.845	-60.97	1.51	-36.0	-24.97	304.80	Horizontal	Vertical	Pass
596.722	-66.77	6.13	-54.0	-12.77	316.20	Horizontal	Vertical	Pass
832.190	-65.30	6.92	-36.0	-29.30	98.40	Horizontal	Vertical	Pass
1402.000	-52.81	14.13	-30.0	-22.81	77.10	Horizontal	Vertical	Pass
1865.000	-51.91	14.49	-30.0	-21.91	257.10	Horizontal	Vertical	Pass
2970.000	-44.31	21.09	-30.0	-14.31	37.60	Horizontal	Vertical	Pass
5857.500	-49.66	6.57	-30.0	-19.66	170.00	Horizontal	Vertical	Pass
9875.000	-37.42	18.32	-30.0	-7.42	4.70	Horizontal	Vertical	Pass
12900.000	-34.24	23.93	-30.0	-4.24	308.50	Horizontal	Vertical	Pass



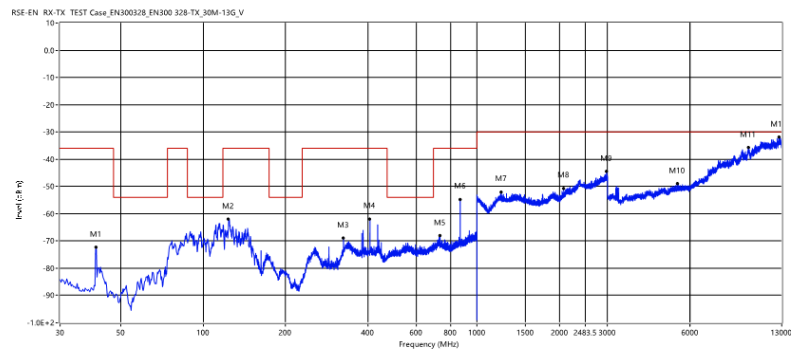
德普华检测中心 Shenzhen STS Test Services C., Ltd.
Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China
Tel: (86)-0755-36886288 FAX: (86)-0755-36886277 <http://www.stsapp.com>

Test Result

Project Number: STS2106192

Test Time: 2021-06-29_10.44.08

EUT Name:	11KW EV Charger	Test Engineer:	Chris
Mode:	802.11n40_L	Test Standard:	EN 300328
Model:	AC011E-01	Work Addition:	
Temp.(oC):	23.5	Load:	
Hum.:	69%	Remark:	



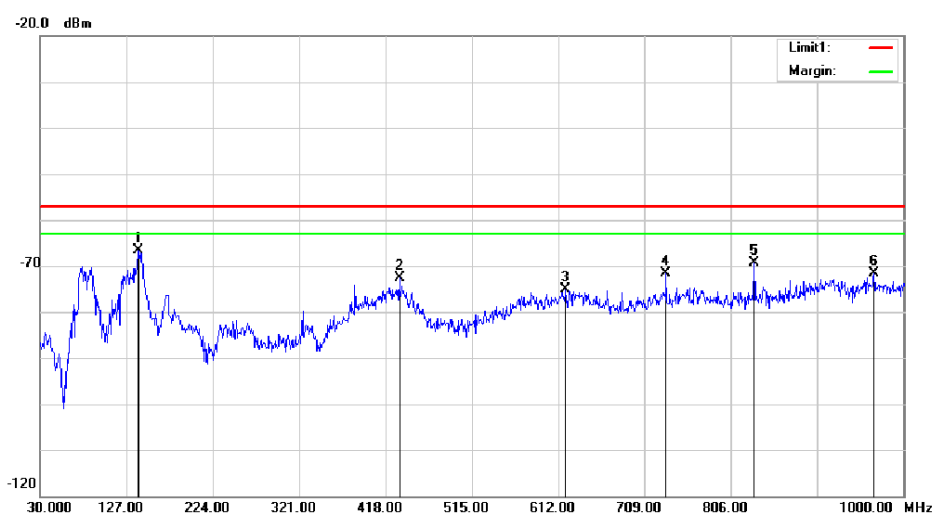
Frequency(MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-72.36	-12.89	-36.0	-36.36	37.50	Vertical	Vertical	Pass
123.848	-62.01	-3.64	-36.0	-26.01	279.30	Vertical	Vertical	Pass
325.365	-69.00	-2.34	-36.0	-33.00	1.00	Vertical	Vertical	Pass
406.845	-61.99	0.01	-36.0	-25.99	206.40	Vertical	Vertical	Pass
733.492	-68.11	7.88	-36.0	-32.11	323.80	Vertical	Vertical	Pass
868.807	-54.78	8.22	-36.0	-18.78	217.80	Vertical	Vertical	Pass
1227.500	-52.11	13.54	-30.0	-22.11	64.40	Vertical	Vertical	Pass
2076.000	-50.77	14.22	-30.0	-20.77	115.00	Vertical	Vertical	Pass
2975.500	-44.64	20.36	-30.0	-14.64	190.90	Vertical	Vertical	Pass
5420.000	-49.09	6.73	-30.0	-19.09	15.80	Vertical	Vertical	Pass
9867.500	-35.85	19.35	-30.0	-5.85	51.00	Vertical	Vertical	Pass
12742.500	-34.03	23.62	-30.0	-4.03	311.70	Vertical	Vertical	Pass

Note: The highest waveform in the figure is Wi-Fi Fundamental.

Appendix A4: Test Results of Receiver Spurious Emissions

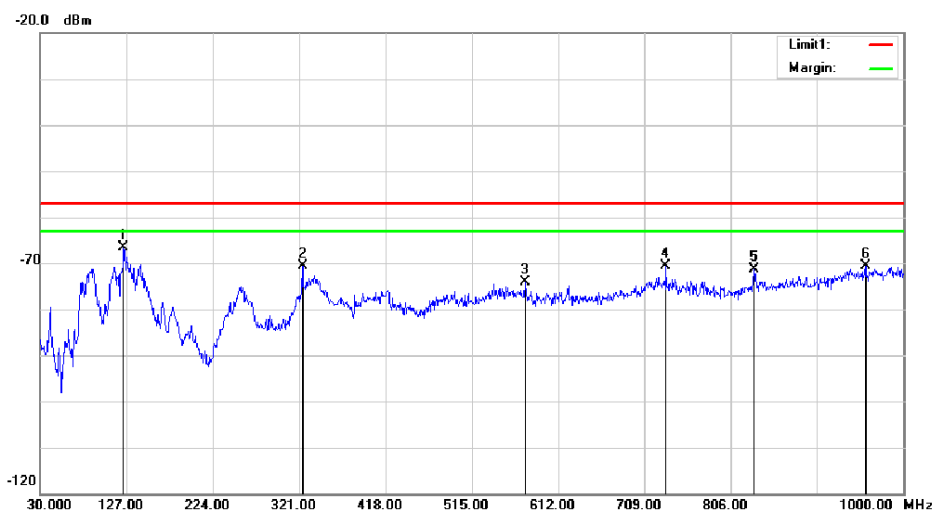
Below 1GHz

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:2021/6/29	Time:11:07:54
Test item:	Radiated Emission	Temp.(C):	23.1(C)
Company:		Hum. (%RH):	60%RH
Model:	AC011E-01	Power:	AC 220V/50Hz
Mode:	802.11b_H	Test By:	Chris
Description:			



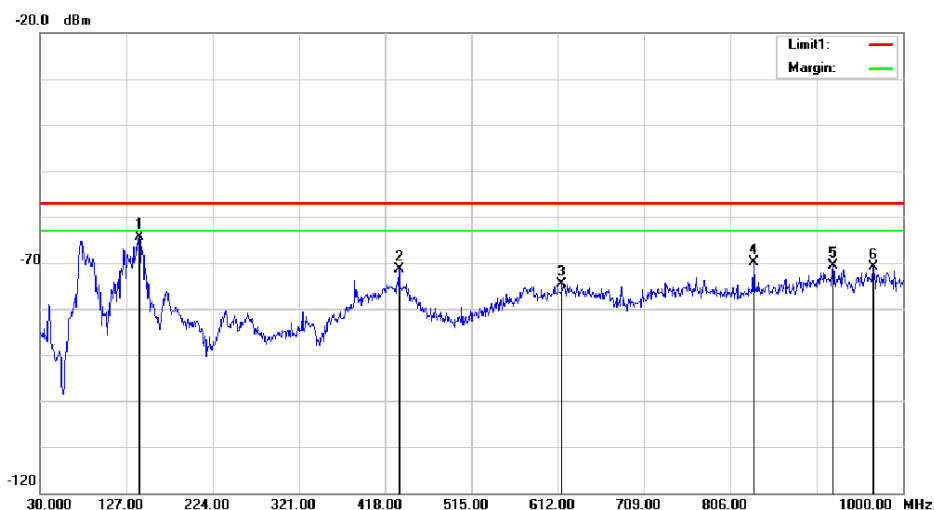
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	140.5800	-59.58	-6.94	-66.52	-57.00	-9.52	peak
2	433.5200	-74.33	1.69	-72.64	-57.00	-15.64	peak
3	620.7300	-81.04	6.03	-75.01	-57.00	-18.01	peak
4	733.2500	-77.26	5.72	-71.54	-57.00	-14.54	peak
5	832.1900	-75.36	6.00	-69.36	-57.00	-12.36	peak
6	967.0200	-80.49	8.84	-71.65	-57.00	-14.65	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:09:58
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11b_H	Power:	AC 220V/50Hz
		Test By:	Chris
Description:			



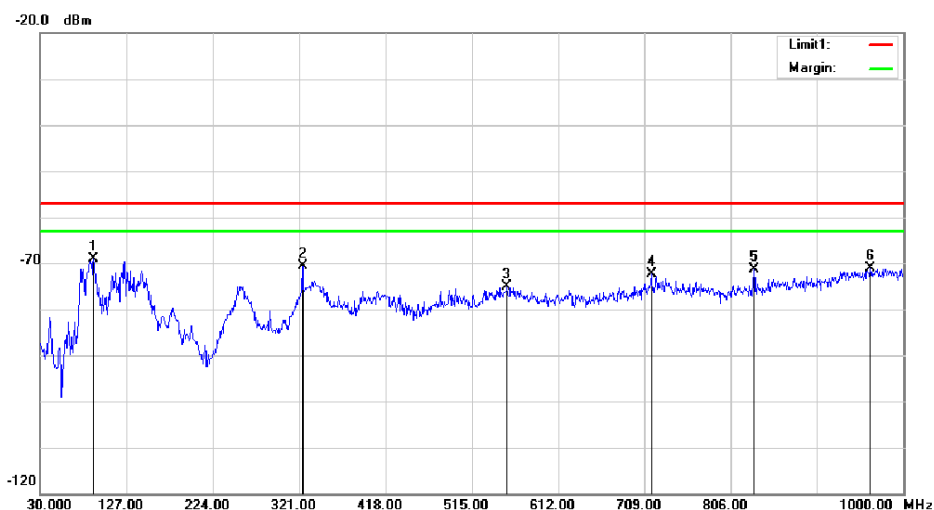
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	124.0900	-62.42	-4.25	-66.67	-57.00	-9.67	peak
2	324.8800	-67.29	-3.41	-70.70	-57.00	-13.70	peak
3	575.1400	-78.47	4.27	-74.20	-57.00	-17.20	peak
4	733.2500	-77.49	6.81	-70.68	-57.00	-13.68	peak
5	832.1900	-77.82	6.38	-71.44	-57.00	-14.44	peak
6	957.3200	-80.09	9.48	-70.61	-57.00	-13.61	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:07:44
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11b_L	Power:	AC 220V/50Hz
Description:		Test By:	Chris



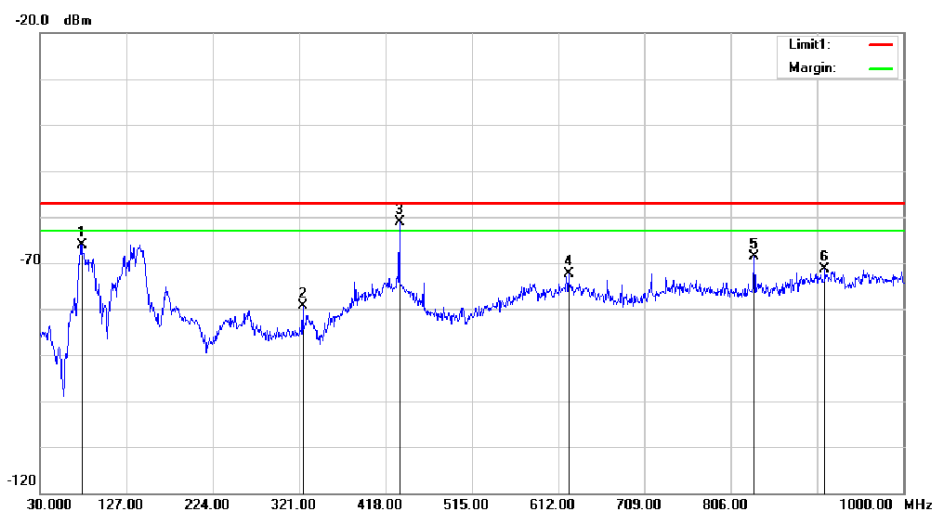
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	141.5500	-57.12	-7.14	-64.26	-57.00	-7.26	peak
2	433.5200	-73.07	1.69	-71.38	-57.00	-14.38	peak
3	616.8500	-80.32	5.82	-74.50	-57.00	-17.50	peak
4	832.1900	-75.82	6.00	-69.82	-57.00	-12.82	peak
5	921.4300	-79.50	8.88	-70.62	-57.00	-13.62	peak
6	967.0200	-79.80	8.84	-70.96	-57.00	-13.96	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:09:45
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11b_L	Power:	AC 220V/50Hz
Description:		Test By:	Chris



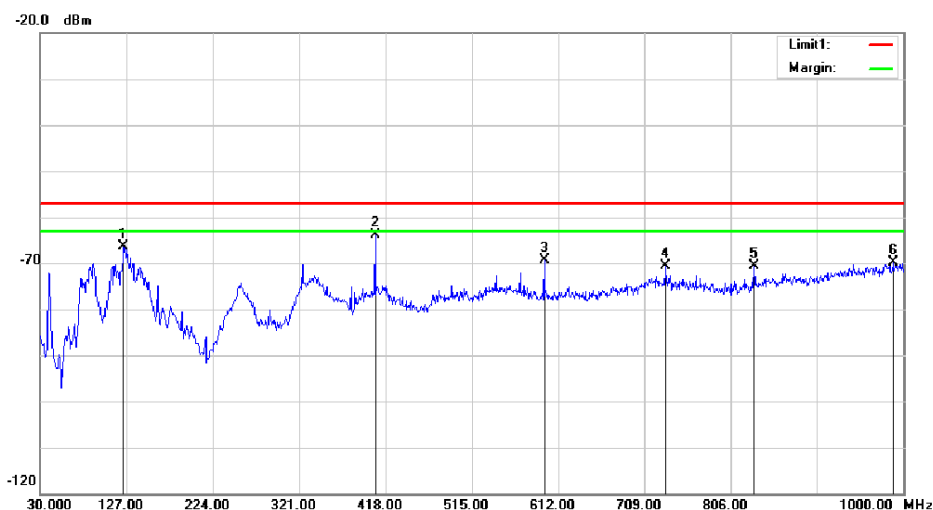
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	90.1400	-58.62	-10.41	-69.03	-57.00	-12.03	peak
2	324.8800	-67.29	-3.41	-70.70	-57.00	-13.70	peak
3	554.7700	-79.96	4.91	-75.05	-57.00	-18.05	peak
4	716.7600	-79.27	6.80	-72.47	-57.00	-15.47	peak
5	832.1900	-77.75	6.38	-71.37	-57.00	-14.37	peak
6	963.1400	-80.69	9.52	-71.17	-57.00	-14.17	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:08:26
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11g_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



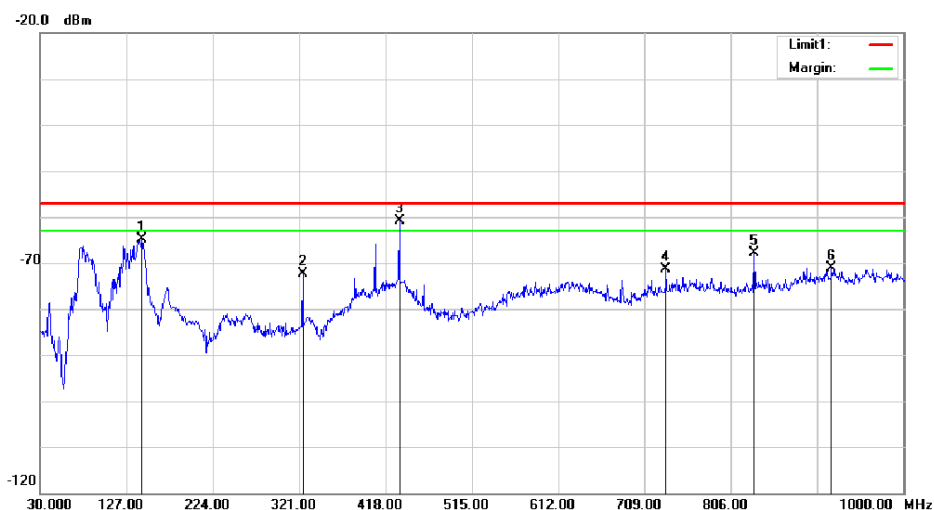
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	76.5600	-49.24	-16.77	-66.01	-57.00	-9.01	peak
2	324.8800	-71.56	-7.85	-79.41	-57.00	-22.41	peak
3	433.5200	-62.84	1.69	-61.15	-57.00	-4.15	peak
4	623.6400	-78.38	6.02	-72.36	-57.00	-15.36	peak
5	832.1900	-74.72	6.00	-68.72	-57.00	-11.72	peak
6	911.7300	-80.05	8.63	-71.42	-57.00	-14.42	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:10:38
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11g_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



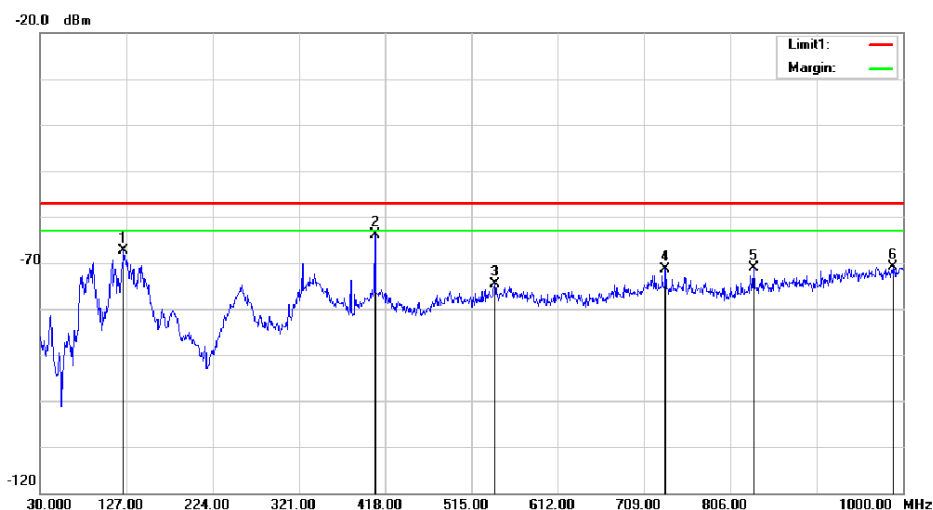
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	124.0900	-62.02	-4.25	-66.27	-57.00	-9.27	peak
2	406.3600	-62.62	-1.26	-63.88	-57.00	-6.88	peak
3	596.4800	-72.88	3.49	-69.39	-57.00	-12.39	peak
4	733.2500	-77.50	6.81	-70.69	-57.00	-13.69	peak
5	832.1900	-76.93	6.38	-70.55	-57.00	-13.55	peak
6	988.3600	-79.71	9.91	-69.80	-57.00	-12.80	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:2021/6/29	Time:11:08:14
Test item:	Radiated Emission	Temp.(C):	23.1(C)
Company:		Hum.(%RH):	60%RH
Model:	AC011E-01	Power:	AC 220V/50Hz
Mode:	802.11g_L	Test By:	Chris
Description:			



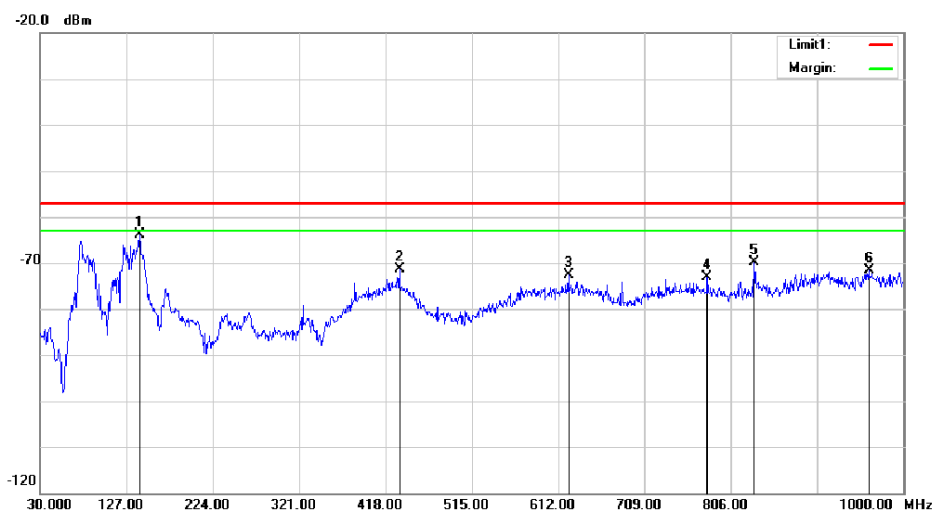
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	144.4600	-57.17	-7.71	-64.88	-57.00	-7.88	peak
2	324.8800	-64.54	-7.85	-72.39	-57.00	-15.39	peak
3	433.5200	-62.56	1.69	-60.87	-57.00	-3.87	peak
4	733.2500	-77.15	5.72	-71.43	-57.00	-14.43	peak
5	832.1900	-73.98	6.00	-67.98	-57.00	-10.98	peak
6	919.4900	-79.97	8.96	-71.01	-57.00	-14.01	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:10:10
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11g_L	Power:	AC 220V/50Hz
Description:		Test By:	Chris



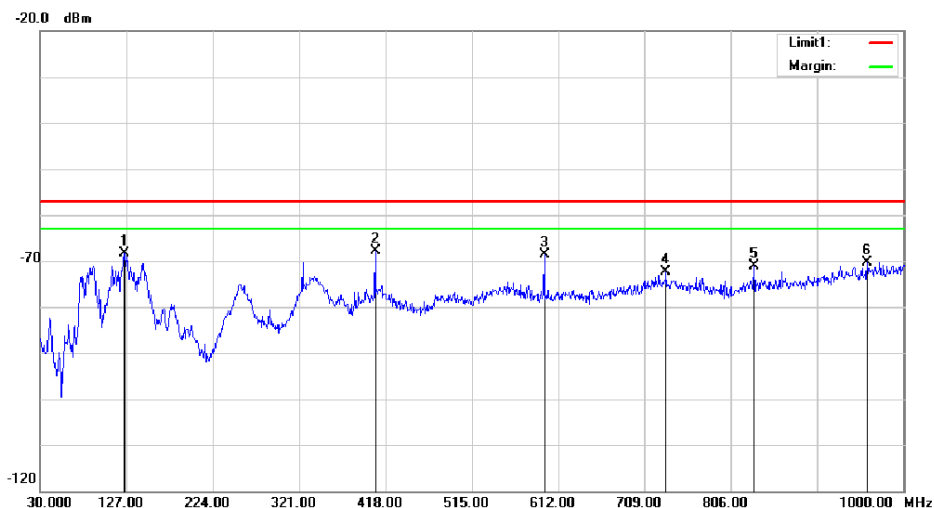
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	124.0900	-63.01	-4.25	-67.26	-57.00	-10.26	peak
2	406.3600	-62.51	-1.26	-63.77	-57.00	-6.77	peak
3	541.1900	-79.25	4.69	-74.56	-57.00	-17.56	peak
4	733.2500	-78.19	6.81	-71.38	-57.00	-14.38	peak
5	832.1900	-77.58	6.38	-71.20	-57.00	-14.20	peak
6	989.3300	-80.78	9.93	-70.85	-57.00	-13.85	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:08:54
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n20_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



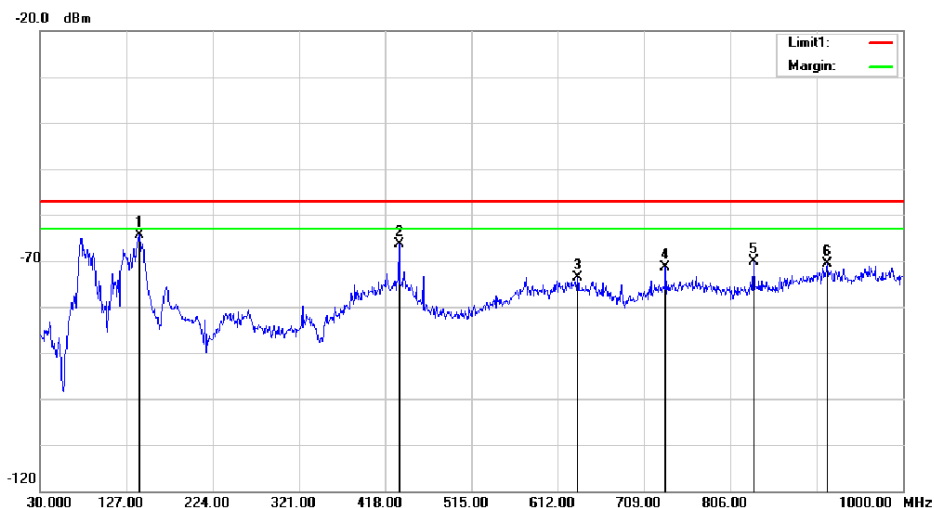
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	141.5500	-56.77	-7.14	-63.91	-57.00	-6.91	peak
2	433.5200	-73.16	1.69	-71.47	-57.00	-14.47	peak
3	623.6400	-78.63	6.02	-72.61	-57.00	-15.61	peak
4	779.8100	-79.16	6.02	-73.14	-57.00	-16.14	peak
5	832.1900	-75.89	6.00	-69.89	-57.00	-12.89	peak
6	961.2000	-80.67	9.05	-71.62	-57.00	-14.62	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:2021/6/29	Time:11:11:05
Test item:	Radiated Emission	Temp.(C):	23.1(C)
Company:		Hum.(%RH):	60%RH
Model:	AC011E-01	Power:	AC 220V/50Hz
Mode:	802.11n20_H	Test By:	Chris
Description:			



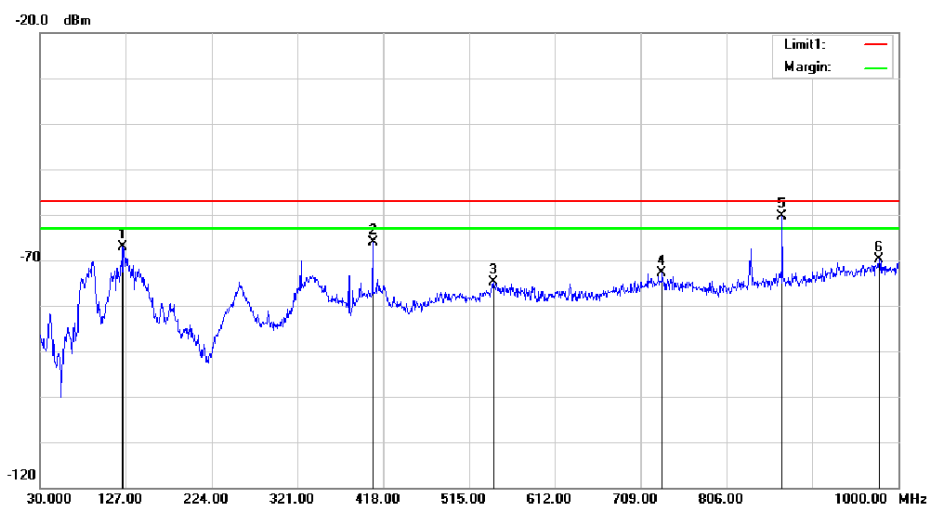
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	125.0600	-64.22	-4.21	-68.43	-57.00	-11.43	peak
2	406.3600	-66.56	-1.26	-67.82	-57.00	-10.82	peak
3	596.4800	-72.15	3.49	-68.66	-57.00	-11.66	peak
4	733.2500	-79.23	6.81	-72.42	-57.00	-15.42	peak
5	832.1900	-77.46	6.38	-71.08	-57.00	-14.08	peak
6	959.2600	-79.84	9.47	-70.37	-57.00	-13.37	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:08:41
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n20_L	Power:	AC 220V/50Hz
Description:		Test By:	Chris



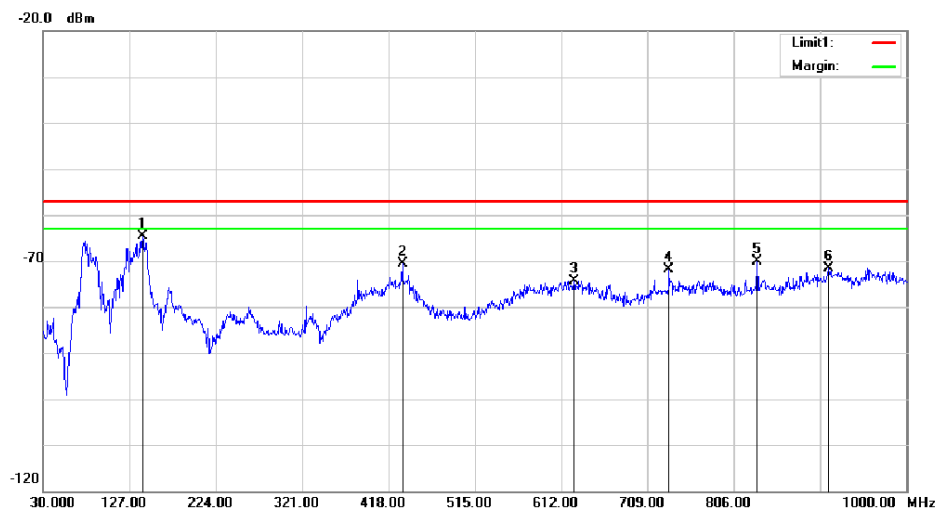
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	141.5500	-57.31	-7.14	-64.45	-57.00	-7.45	peak
2	433.5200	-67.94	1.69	-66.25	-57.00	-9.25	peak
3	634.3100	-79.59	5.98	-73.61	-57.00	-16.61	peak
4	733.2500	-77.01	5.72	-71.29	-57.00	-14.29	peak
5	832.1900	-76.00	6.00	-70.00	-57.00	-13.00	peak
6	914.6400	-79.33	8.75	-70.58	-57.00	-13.58	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:10:51
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n20_L	Power:	AC 220V/50Hz
Description:		Test By:	Chris



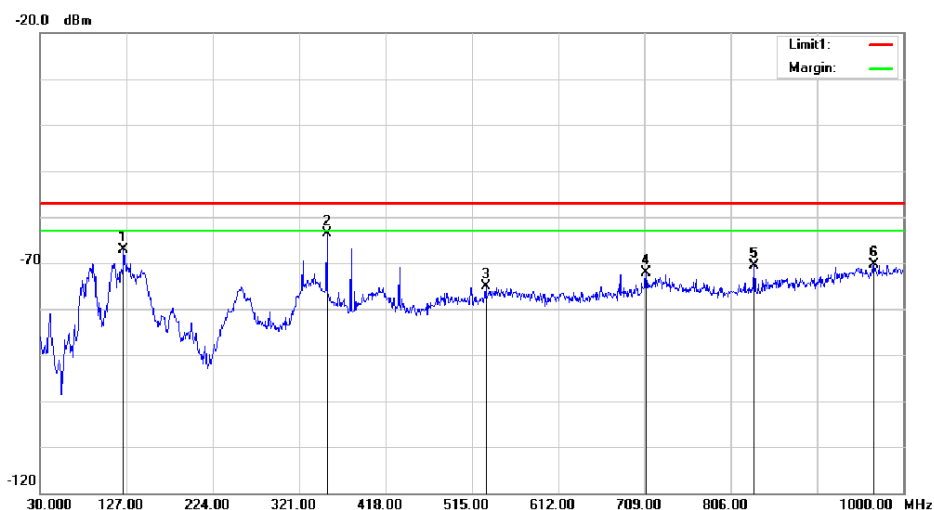
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	124.0900	-62.90	-4.25	-67.15	-57.00	-10.15	peak
2	406.3600	-64.80	-1.26	-66.06	-57.00	-9.06	peak
3	542.1600	-79.54	4.70	-74.84	-57.00	-17.84	peak
4	733.2500	-79.62	6.81	-72.81	-57.00	-15.81	peak
5	869.0500	-67.73	7.24	-60.49	-57.00	-3.49	peak
6	978.6600	-79.55	9.76	-69.79	-57.00	-12.79	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:2021/6/29	Time:11:09:25
Test item:	Radiated Emission	Temp.(C):	23.1(C)
Company:		Hum.(%RH):	60%RH
Model:	AC011E-01	Power:	AC 220V/50Hz
Mode:	802.11n40_H	Test By:	Chris
Description:			



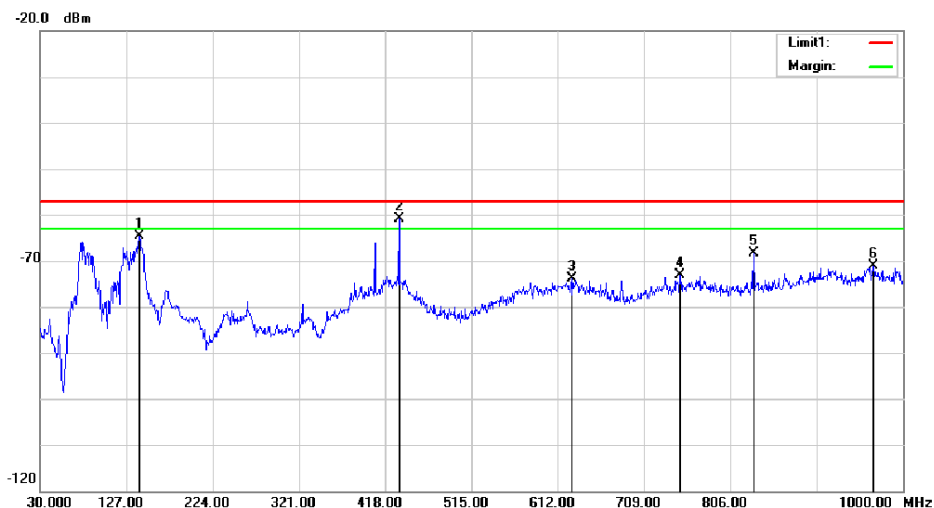
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	141.5500	-57.41	-7.14	-64.55	-57.00	-7.55	peak
2	433.5200	-72.43	1.69	-70.74	-57.00	-13.74	peak
3	626.5500	-80.26	6.01	-74.25	-57.00	-17.25	peak
4	733.2500	-77.63	5.72	-71.91	-57.00	-14.91	peak
5	832.1900	-76.14	6.00	-70.14	-57.00	-13.14	peak
6	912.7000	-80.21	8.67	-71.54	-57.00	-14.54	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:11:40
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n40_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



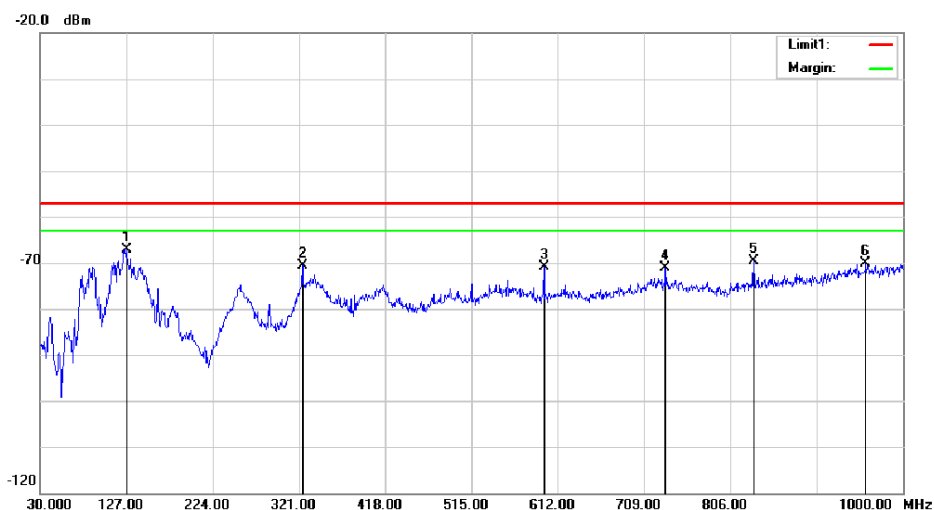
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	124.0900	-62.88	-4.25	-67.13	-57.00	-10.13	peak
2	352.0400	-60.44	-3.21	-63.65	-57.00	-6.65	peak
3	530.5200	-79.00	3.90	-75.10	-57.00	-18.10	peak
4	710.9400	-78.54	6.37	-72.17	-57.00	-15.17	peak
5	832.1900	-76.97	6.38	-70.59	-57.00	-13.59	peak
6	967.0200	-79.85	9.58	-70.27	-57.00	-13.27	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:09:11
Company:		Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n40_L	Power:	AC 220V/50Hz
Description:		Test By:	Chris



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	141.5500	-57.59	-7.14	-64.73	-57.00	-7.73	peak
2	433.5200	-62.53	1.69	-60.84	-57.00	-3.84	peak
3	627.5200	-79.98	6.00	-73.98	-57.00	-16.98	peak
4	749.7400	-79.34	6.17	-73.17	-57.00	-16.17	peak
5	832.1900	-74.29	6.00	-68.29	-57.00	-11.29	peak
6	967.0200	-80.00	8.84	-71.16	-57.00	-14.16	peak

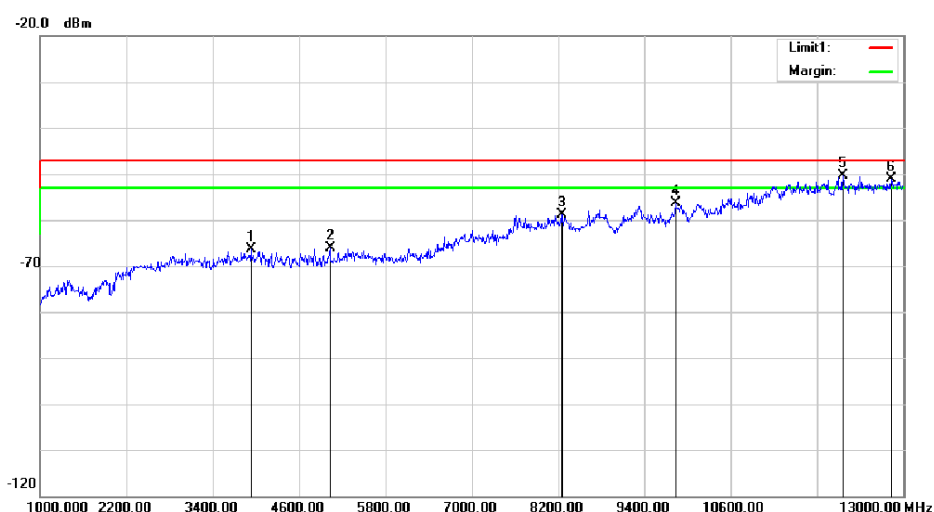
Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:2021/6/29	Time:11:11:25
Test item:	Radiated Emission	Temp.(C):	23.1(C)
Company:		Hum.(%RH):	60%RH
Model:	AC011E-01	Power:	AC 220V/50Hz
Mode:	802.11n40_L	Test By:	Chris
Description:			



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	127.0000	-62.96	-4.13	-67.09	-57.00	-10.09	peak
2	324.8800	-67.23	-3.41	-70.64	-57.00	-13.64	peak
3	596.4800	-74.43	3.49	-70.94	-57.00	-13.94	peak
4	733.2500	-78.05	6.81	-71.24	-57.00	-14.24	peak
5	832.1900	-76.10	6.38	-69.72	-57.00	-12.72	peak
6	958.2900	-79.67	9.47	-70.20	-57.00	-13.20	peak

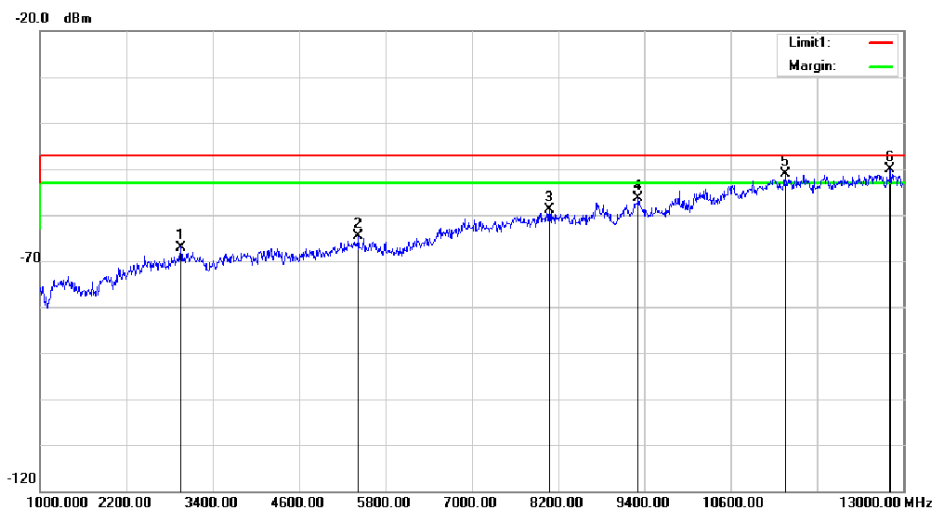
Above 1GHz

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:2021/6/29	Time:13:39:24
Test item:	Radiated Emission	Temp.(C):	23.1(C)
Company:	Sungrow	Hum.(%RH):	60%RH
Model:	AC011E-01	Power:	AC 220V/50Hz
Mode:	802.11b_H	Test By:	Chris
Description:			



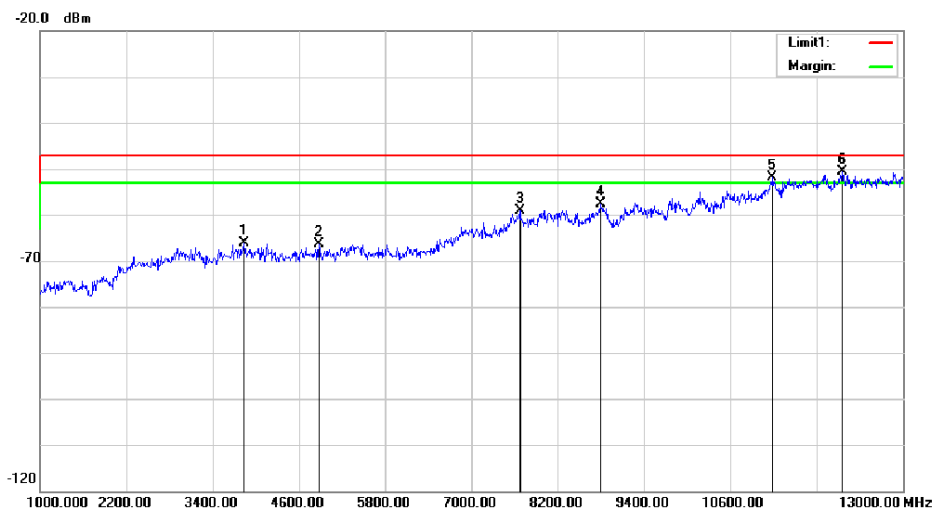
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3928.000	-73.16	6.73	-66.43	-47.00	-19.43	peak
2	5032.000	-74.83	8.74	-66.09	-47.00	-19.09	peak
3	8248.000	-75.65	16.73	-58.92	-47.00	-11.92	peak
4	9832.000	-76.22	19.92	-56.30	-47.00	-9.30	peak
5	12160.000	-75.16	24.71	-50.45	-47.00	-3.45	peak
6	12832.000	-76.21	25.05	-51.16	-47.00	-4.16	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:14:47
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11b_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



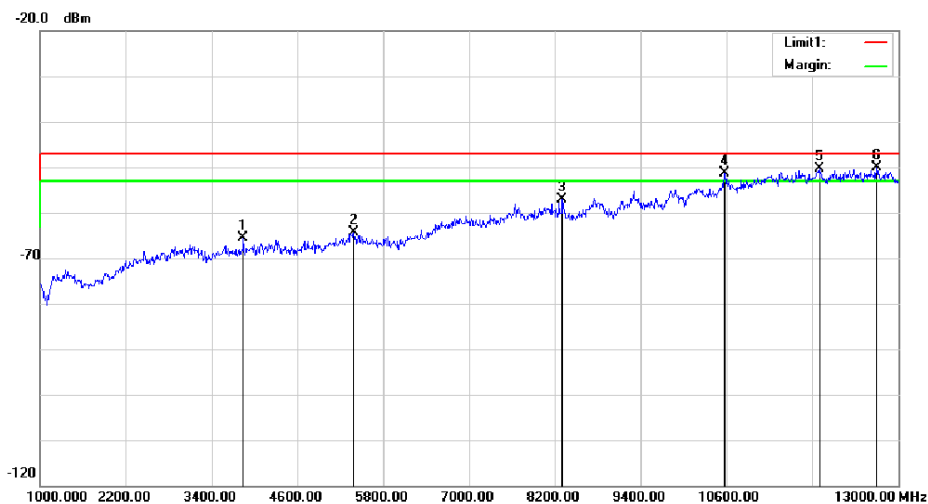
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2956.000	-70.12	3.12	-67.00	-47.00	-20.00	peak
2	5428.000	-74.82	10.16	-64.66	-47.00	-17.66	peak
3	8080.000	-76.33	17.45	-58.88	-47.00	-11.88	peak
4	9316.000	-76.47	20.22	-56.25	-47.00	-9.25	peak
5	11356.000	-75.09	23.87	-51.22	-47.00	-4.22	peak
6	12820.000	-75.33	25.24	-50.09	-47.00	-3.09	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	13:39:18
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11b_L	Power:	AC 220V/50Hz
		Test By:	Chris
Description:			



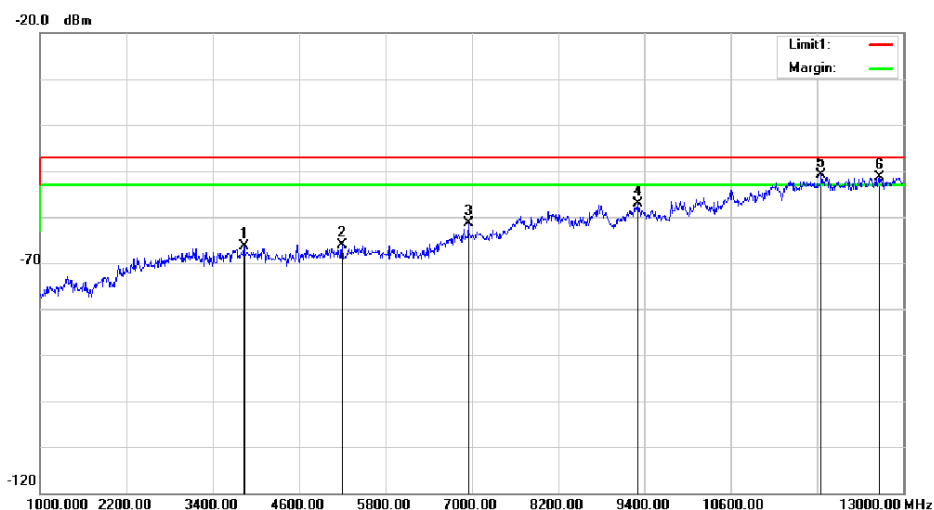
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3832.000	-72.87	6.63	-66.24	-47.00	-19.24	peak
2	4876.000	-74.63	8.28	-66.35	-47.00	-19.35	peak
3	7672.000	-75.65	16.56	-59.09	-47.00	-12.09	peak
4	8800.000	-75.74	18.03	-57.71	-47.00	-10.71	peak
5	11188.000	-75.93	23.98	-51.95	-47.00	-4.95	peak
6	12160.000	-75.43	24.71	-50.72	-47.00	-3.72	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:13:22
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11b_L	Power:	AC 220V/50Hz
		Test By:	Chris
Description:			



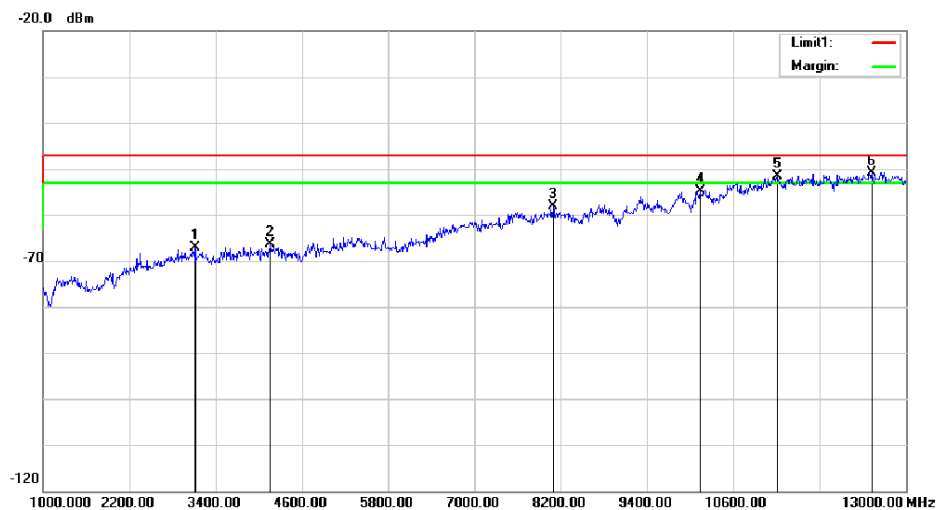
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3844.000	-71.42	5.71	-65.71	-47.00	-18.71	peak
2	5392.000	-74.49	10.13	-64.36	-47.00	-17.36	peak
3	8308.000	-73.50	16.30	-57.20	-47.00	-10.20	peak
4	10576.000	-73.49	22.23	-51.26	-47.00	-4.26	peak
5	11896.000	-74.87	24.42	-50.45	-47.00	-3.45	peak
6	12700.000	-75.08	24.98	-50.10	-47.00	-3.10	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	13:41:06
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11g_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



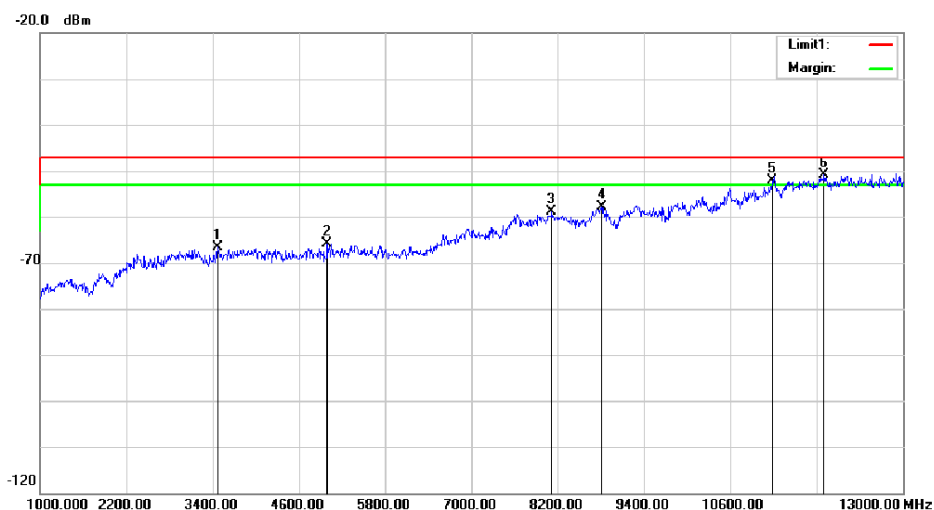
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3832.000	-73.10	6.63	-66.47	-47.00	-19.47	peak
2	5200.000	-75.07	8.93	-66.14	-47.00	-19.14	peak
3	6952.000	-74.01	12.59	-61.42	-47.00	-14.42	peak
4	9304.000	-76.76	19.59	-57.17	-47.00	-10.17	peak
5	11860.000	-75.14	24.20	-50.94	-47.00	-3.94	peak
6	12676.000	-75.69	24.39	-51.30	-47.00	-4.30	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:14:59
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11g_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



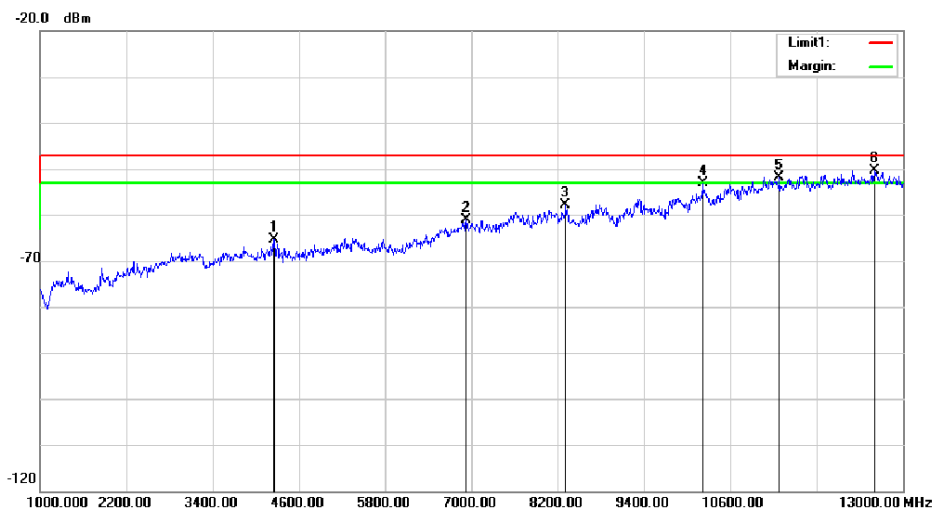
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3112.000	-70.98	3.78	-67.20	-47.00	-20.20	peak
2	4156.000	-72.93	6.67	-66.26	-47.00	-19.26	peak
3	8092.000	-75.56	17.47	-58.09	-47.00	-11.09	peak
4	10144.000	-75.74	20.77	-54.97	-47.00	-7.97	peak
5	11212.000	-75.59	23.96	-51.63	-47.00	-4.63	peak
6	12520.000	-74.60	23.79	-50.81	-47.00	-3.81	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	13:41:02
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11g_L	Power:	AC 220V/50Hz
		Test By:	Chris
Description:			



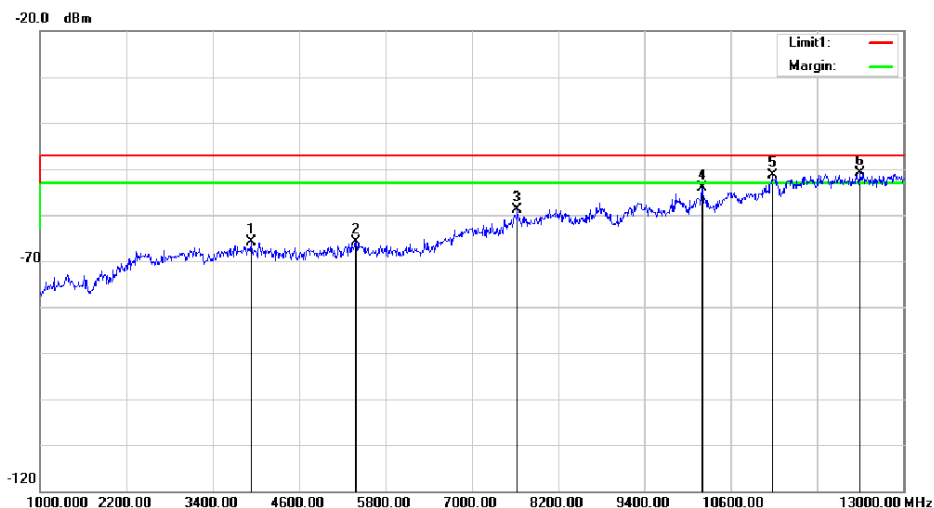
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3472.000	-71.63	4.89	-66.74	-47.00	-19.74	peak
2	4996.000	-74.59	8.69	-65.90	-47.00	-18.90	peak
3	8116.000	-76.19	17.42	-58.77	-47.00	-11.77	peak
4	8812.000	-75.88	17.94	-57.94	-47.00	-10.94	peak
5	11188.000	-76.03	23.98	-52.05	-47.00	-5.05	peak
6	11908.000	-75.36	24.44	-50.92	-47.00	-3.92	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:14:50
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11g_L	Power:	AC 220V/50Hz
Description:		Test By:	Chris



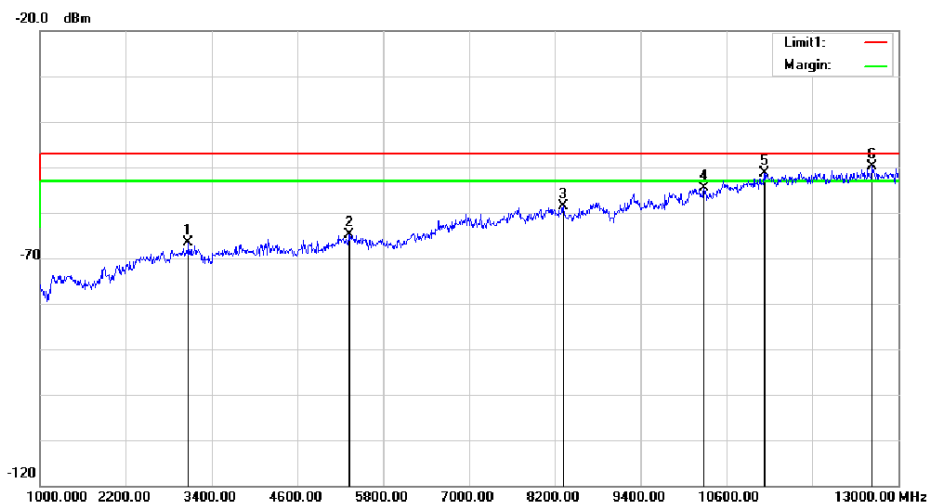
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	4252.000	-72.36	7.06	-65.30	-47.00	-18.30	peak
2	6928.000	-74.94	13.84	-61.10	-47.00	-14.10	peak
3	8308.000	-74.12	16.30	-57.82	-47.00	-10.82	peak
4	10216.000	-74.11	20.90	-53.21	-47.00	-6.21	peak
5	11284.000	-75.04	23.25	-51.79	-47.00	-4.79	peak
6	12604.000	-74.97	24.62	-50.35	-47.00	-3.35	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	13:41:15
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n20_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



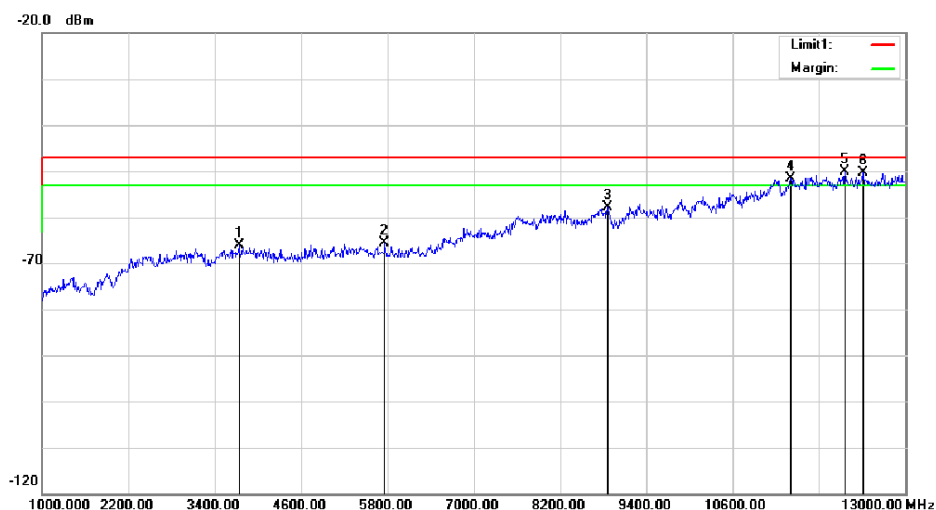
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3928.000	-72.68	6.73	-65.95	-47.00	-18.95	peak
2	5392.000	-75.13	9.15	-65.98	-47.00	-18.98	peak
3	7636.000	-75.50	16.52	-58.98	-47.00	-11.98	peak
4	10204.000	-73.79	19.70	-54.09	-47.00	-7.09	peak
5	11176.000	-75.19	23.78	-51.41	-47.00	-4.41	peak
6	12400.000	-74.94	24.02	-50.92	-47.00	-3.92	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:15:11
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n20_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3076.000	-70.22	3.53	-66.69	-47.00	-19.69	peak
2	5320.000	-74.97	10.08	-64.89	-47.00	-17.89	peak
3	8320.000	-75.00	16.33	-58.67	-47.00	-11.67	peak
4	10288.000	-75.27	20.72	-54.55	-47.00	-7.55	peak
5	11128.000	-75.33	23.88	-51.45	-47.00	-4.45	peak
6	12640.000	-74.75	24.76	-49.99	-47.00	-2.99	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:2021/6/29	Time:13:41:10
Test item:	Radiated Emission	Temp.(C):	23.1(C)
Company:	Sungrow	Hum.(%RH):	60%RH
Model:	AC011E-01	Power:	AC 220V/50Hz
Mode:	802.11n20_L	Test By:	Chris
Description:			



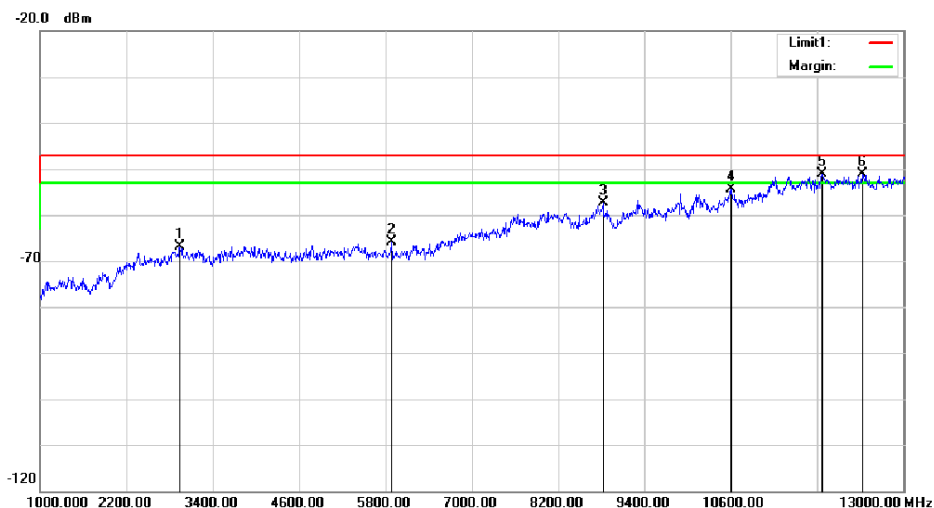
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3736.000	-72.27	6.17	-66.10	-47.00	-19.10	peak
2	5764.000	-74.56	8.98	-65.58	-47.00	-18.58	peak
3	8860.000	-75.38	17.60	-57.78	-47.00	-10.78	peak
4	11404.000	-76.24	24.72	-51.52	-47.00	-4.52	peak
5	12160.000	-74.77	24.71	-50.06	-47.00	-3.06	peak
6	12412.000	-74.39	23.96	-50.43	-47.00	-3.43	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:15:05
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n20_L	Power:	AC 220V/50Hz
Description:		Test By:	Chris



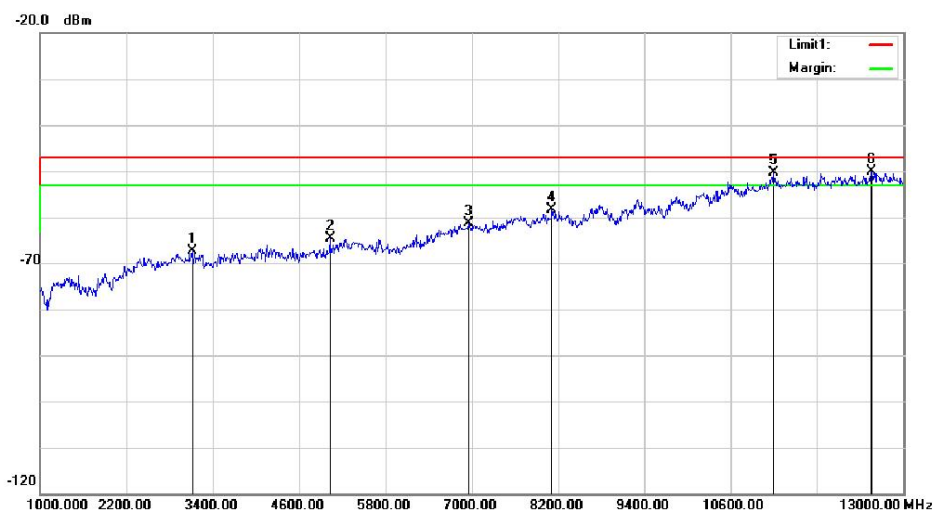
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2944.000	-70.47	3.16	-67.31	-47.00	-20.31	peak
2	5344.000	-74.82	10.10	-64.72	-47.00	-17.72	peak
3	7612.000	-75.82	16.66	-59.16	-47.00	-12.16	peak
4	9280.000	-76.07	19.92	-56.15	-47.00	-9.15	peak
5	11224.000	-74.79	23.84	-50.95	-47.00	-3.95	peak
6	12760.000	-75.37	25.13	-50.24	-47.00	-3.24	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	13:41:45
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum. (%RH):	60%RH
Mode:	802.11n40_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



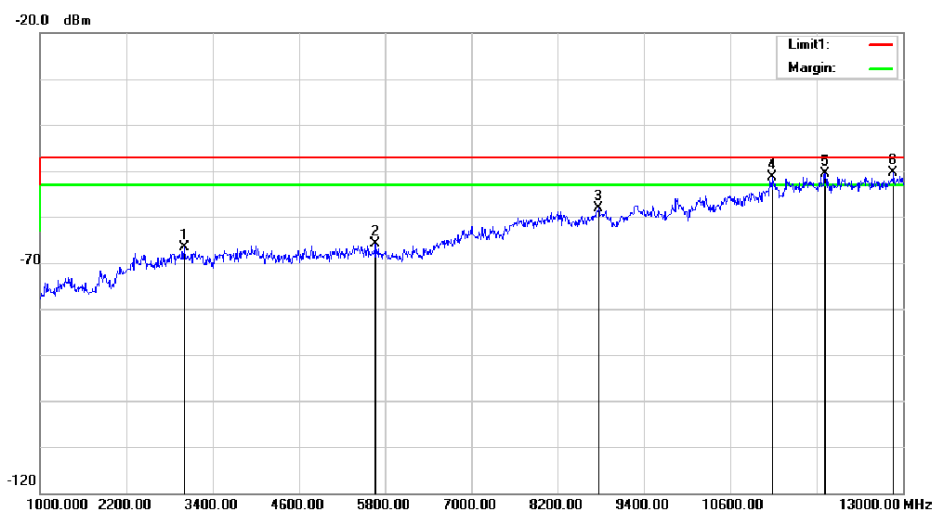
No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	2944.000	-70.68	3.77	-66.91	-47.00	-19.91	peak
2	5884.000	-74.82	8.86	-65.96	-47.00	-18.96	peak
3	8824.000	-75.29	17.86	-57.43	-47.00	-10.43	peak
4	10600.000	-75.49	21.12	-54.37	-47.00	-7.37	peak
5	11872.000	-75.31	24.30	-51.01	-47.00	-4.01	peak
6	12424.000	-75.11	23.90	-51.21	-47.00	-4.21	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:15:23
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n40_H	Power:	AC 220V/50Hz
Description:		Test By:	Chris



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3112.000	-71.25	3.78	-67.47	-47.00	-20.47	peak
2	5032.000	-73.72	9.22	-64.50	-47.00	-17.50	peak
3	6952.000	-75.27	13.94	-61.33	-47.00	-14.33	peak
4	8116.000	-75.64	17.35	-58.29	-47.00	-11.29	peak
5	11200.000	-74.33	24.08	-50.25	-47.00	-3.25	peak
6	12556.000	-74.35	24.16	-50.19	-47.00	-3.19	peak

Job No.:	STS2106192	Ant.Polar.:	Horizontal
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	13:41:41
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n40_L	Power:	AC 220V/50Hz
		Test By:	Chris
Description:			



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3004.000	-70.59	3.85	-66.74	-47.00	-19.74	peak
2	5668.000	-74.90	9.09	-65.81	-47.00	-18.81	peak
3	8764.000	-76.26	18.13	-58.13	-47.00	-11.13	peak
4	11188.000	-75.32	23.98	-51.34	-47.00	-4.34	peak
5	11920.000	-74.90	24.30	-50.60	-47.00	-3.60	peak
6	12868.000	-75.67	25.33	-50.34	-47.00	-3.34	peak

Job No.:	STS2106192	Ant.Polar.:	Vertical
Standard:	EN 300328_RX	Date:	2021/6/29
Test item:	Radiated Emission	Time:	11:15:17
Company:	Sungrow	Temp.(C):	23.1(C)
Model:	AC011E-01	Hum.(%RH):	60%RH
Mode:	802.11n40_L	Power:	AC 220V/50Hz
		Test By:	Chris
Description:			



No.	Frequency (MHz)	Reading (dBm)	Correct Factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	3784.000	-70.99	5.47	-65.52	-47.00	-18.52	peak
2	5572.000	-75.01	10.10	-64.91	-47.00	-17.91	peak
3	7648.000	-76.14	16.76	-59.38	-47.00	-12.38	peak
4	8764.000	-74.98	18.22	-56.76	-47.00	-9.76	peak
5	11224.000	-75.09	23.84	-51.25	-47.00	-4.25	peak
6	12700.000	-75.32	24.98	-50.34	-47.00	-3.34	peak

Appendix A5: Test Results of Receiver Blocking

Wi-Fi 802.11 b mode(1 Mbps)

Wanted signal meanpower from companion device (dBm)	Test Channel	Blocking signal frequency (MHz)	Blocking signal power(dBm) CW	PER	Limit	Results
-68	Lowest	2380	-30.6	0.44%	≤10%	PASS
	Highest	2504		0.54%		
-74	Lowest	2300		0.30%		
		2330		0.71%		
		2360		0.25%		
		2524		0.57%		
	Highest	2584		0.27%		
		2674		0.38%		

NOTE:

- 1) OCBW is 13061000Hz
- 2) Antenna gain: 3.4dBi

Wi-Fi 802.11 g mode(6 Mbps)

Wanted signal meanpower from companion device (dBm)	Test Channel	Blocking signal frequency (MHz)	Blocking signal power(dBm) CW	PER	Limit	Results
-68	Lowest	2380	-30.6	0.60%	≤10%	PASS
	Highest	2504		0.59%		
-74	Lowest	2300		0.36%		
		2330		0.64%		
		2360		0.33%		
		2524		0.33%		
	Highest	2584		0.64%		
		2674		0.46%		

NOTE:

- 1) OCBW is 16609000Hz
- 2) Antenna gain: 3.4dBi

Wi-Fi 802.11 n(HT20) mode, MCS0

Wanted signal mean power from companion device (dBm)	Test Channel	Blocking signal frequency (MHz)	Blocking signal power(dBm) CW	PER	Limit	Results
-68	Lowest	2380	-30.6	0.33%	≤10%	PASS
	Highest	2504		0.22%		
-74	Lowest	2300		0.44%		
		2330		0.33%		
		2360		0.27%		
		2524		0.29%		
	Highest	2584		0.62%		
		2674		0.62%		

NOTE:

- 1) OCBW is 17577000Hz
- 2) Antenna gain: 3.4dBi