

Report No.: SUCR240100000804

Rev.:

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TEST REPORT

Application No.: SUCR2401000008IT

Applicant: JL MARINE SYSTEMS, INC.

Address of Applicant: 9010 Palm River Road, Tampa, FL 33619, USA

Manufacturer: JL MARINE SYSTEMS, INC.

9010 Palm River Road, Tampa, FL 33619, USA **Address of Manufacturer:**

EUT Description: Marine Tablet Model No.: Vision 12 Trade Mark: Power-Pole

FCC ID: A7FVISION12

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

Date of Receipt: 2023/11/17

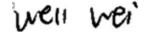
Date of Test: 2023/12/15 to 2024/01/18

Date of Issue: 2024/06/17

PASS * Test Result:

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Well Wei Wireless Laboratory Manager



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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2024/06/17		Original	

Prepared By	(Ives Cheng) / Test Engineer
Checked By	(Stone Gu) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result	Test Lab ^[1]
Antenna Requirement	15.203/15.247(b)		Clause 4.1	PASS	
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS	В
Duty Cycle		ANSI C63.10 2013 Section 11.6	Clause 4.3	For Report Purpose	А
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.1.3	Clause 4.4	PASS	Α
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS	А
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS	Α
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS	Α
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS	Α
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS	В
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS	В

Remark:

1. Lab A SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Lab B SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.



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3 General Information

3.1 Details of Client

Applicant:	JL MARINE SYSTEMS, INC.
Address of Applicant:	9010 Palm River Road, Tampa, FL 33619, USA
Manufacturer:	JL MARINE SYSTEMS, INC.
Address of Manufacturer:	9010 Palm River Road, Tampa, FL 33619, USA

3.2 Test Location

Lab A:			
Company:	Company: SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.		
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone		
Post code:	215000		
Test engineer:	Ives Cheng		
Lab B:			
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.		
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China		
Post code:	710086		
Test engineer:	Abbott Wang		



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3.3 Test Facility

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

Lab A:

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327

Lab B:

•A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

• FCC -Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410



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3.4 General Description of EUT

EUT Description:	Marine Table	Marine Tablet		
Model No.:	Vision 12			
Trade Mark:	Power-Pole			
Hardware Version:	V3.0			
		10500		
Software Version:	Vision12_202	40522		
IMEI:	RF Conducte	d	IMEI1: 352323930001722 IMEI2: 352323930001730	
	RSE & AC po	wer line	352323930001144	
Operation Frequency:	802.11b/g/n(H	HT20):	2412MHz to 2462MHz	
Operation Frequency.	802.11n(HT4	0):	2422MHz to 2452MHz	
Madulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)		
Modulation Type:	802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)		SK, QPSK, 16QAM, 64QAM)	
Number of Channels:	802.11b/g/n(H 802.11n(HT4	•		
Channel Spacing:	5MHz			
Smart System:	⊠ siso	802.11b/g/r	า	
Antenna Type:	☐ External, [Integrated	I	
	2.97dBi (Ant1)		
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.0dB			
Remark:				
As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.				



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					i ago.	0 01 111	
	Operation Frequency of each channel (802.11b/g/n HT20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
		Operation Fr	equency of ea	ch channel (802.11n HT40)	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Remark:

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

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



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3.5 Test Environment and Mode

Environment Parameter	96.0~101.0 kPa Selected Values During Tests			
Relative Humidity	40-60 % RH Ambient			
Value	Temperature(℃)	Voltage(V)		
NTNV	22~25	12		
Remark:				

NV: Normal Voltage NT: Normal Temperature

2.C. Description of Compart Uni

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

The antenna is Integrated Antenna and no consideration of replacement.

The best case gain of the antenna is 2.97dBi (Ant1). *

*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.





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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013 Section 6.2				
Test Frequency Range:	150kHz to 30MHz				
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz			
Limit:		Limit (d	Limit (dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the log	arithm of the frequency.			
Test Procedure:			ugh a LISN 1 (Line 0Ω/50μH + 5Ω linear EUT were connected to ference g measured. A ble power cables to a exceeded. It able 0.8m above the lement, the EUT was been erence plane. The rear erence plane. The rizontal ground the boundary of the leme for LISNs listance was a from the LISN 2. In order the list of the list		



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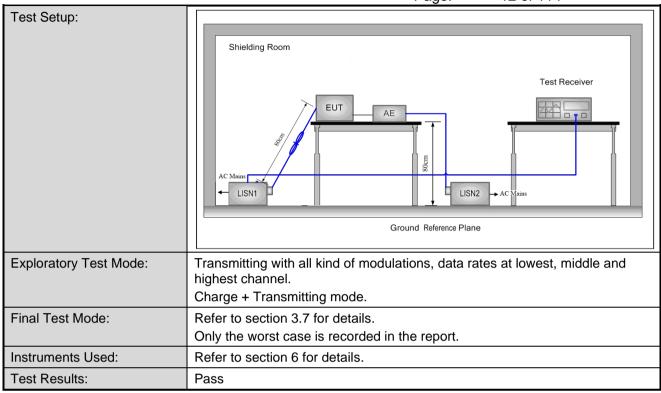
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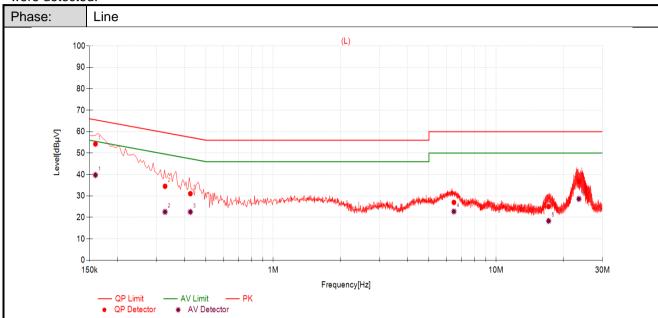
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Data	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1594	9.86	44.39	54.25	65.49	11.24	29.90	39.76	55.49	15.73	PASS
2	0.3272	9.90	24.62	34.52	59.52	25.00	12.68	22.58	49.52	26.94	PASS
3	0.4250	9.86	21.22	31.08	57.35	26.27	12.70	22.56	47.35	24.79	PASS
4	6.4706	9.93	17.09	27.02	60.00	32.98	12.83	22.76	50.00	27.24	PASS
5	17.2201	10.25	14.81	25.06	60.00	34.94	8.10	18.35	50.00	31.65	PASS
6	23.5469	10.30	26.56	36.86	60.00	23.14	18.33	28.63	50.00	21.37	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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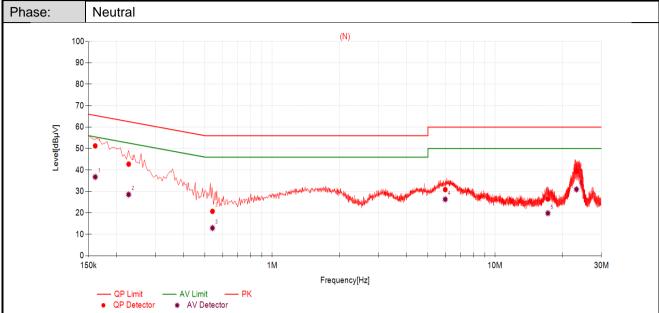
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Data	Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1607	9.79	41.46	51.25	65.43	14.18	26.94	36.73	55.43	18.70	PASS
2	0.2270	9.83	32.90	42.73	62.56	19.83	18.72	28.55	52.56	24.01	PASS
3	0.5396	9.86	10.86	20.72	56.00	35.28	3.07	12.93	46.00	33.07	PASS
4	5.9786	10.01	20.85	30.86	60.00	29.14	16.30	26.31	50.00	23.69	PASS
5	17.2722	10.31	16.15	26.46	60.00	33.54	9.54	19.85	50.00	30.15	PASS
6	23.1970	10.32	29.10	39.42	60.00	20.58	20.66	30.98	50.00	19.02	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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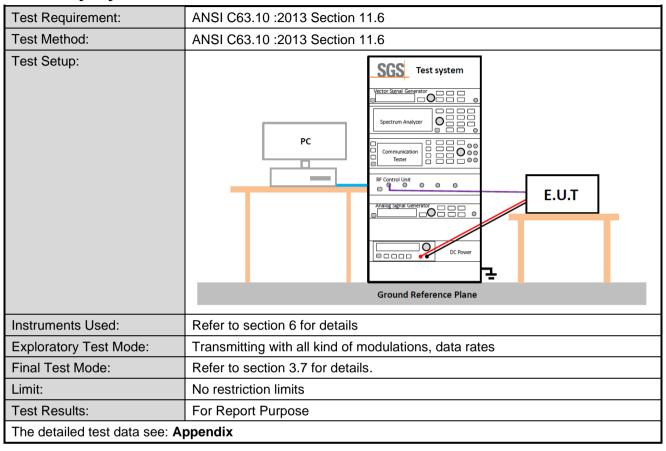


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4.3 Duty Cycle





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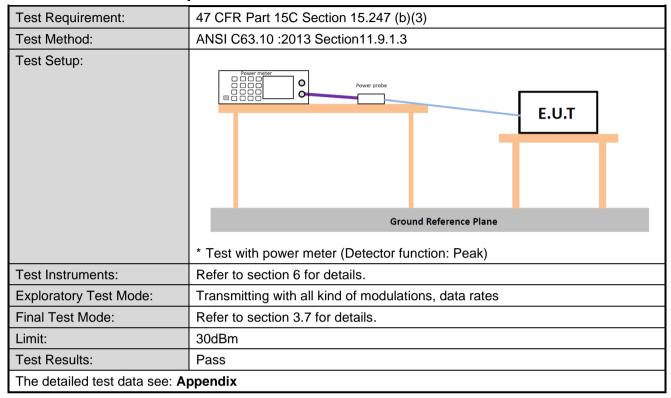


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4.4 Conducted Output Power





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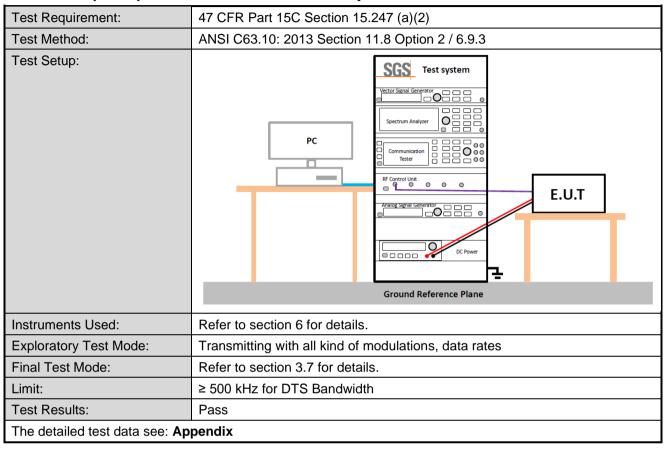


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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth





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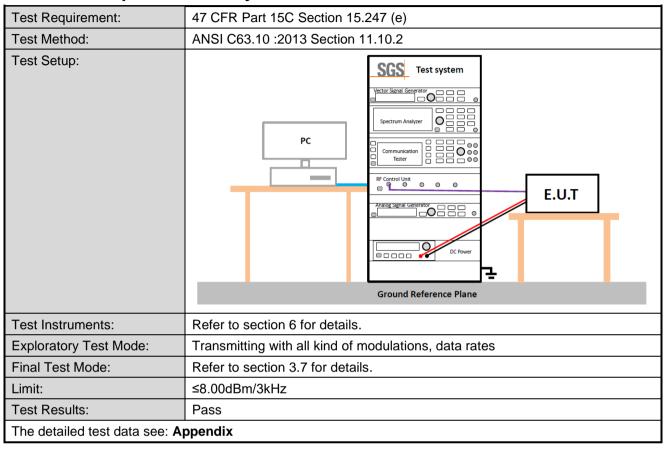


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4.6 Power Spectral Density





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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10: 2013 Section 11.11				
Test Setup:	PC Spectrum Analyzer O O O O O O O O O				
Instruments Used:	Refer to section 6 for details.				
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates				
Final Test Mode:	Refer to section 3.7 for details.				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test Results:	Pass				
The detailed test data see: A	ppendix				



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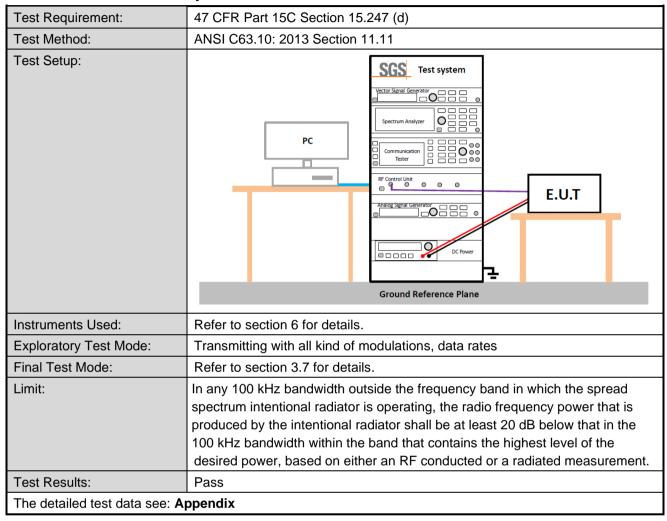


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4.8 RF Conducted Spurious Emissions





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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance:	3m (Semi-Anechoi	ic Chamber)					
Test Frequency:	9kHz ~ 25GHz							
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above IGnz	Peak	1MHz	3MHz	Peak			
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
	30MHz-88MHz	100	40.0	Quasi-peak	3			
	88MHz-216MHz	150	43.5	Quasi-peak	3			
	216MHz-960MHz	200	46.0	Quasi-peak	3			
	960MHz-1GHz	500	54.0	Quasi-peak	3			
	Above 1GHz	500	54.0	Average	3			
	on peak radio for age emission ling applies to the to	nit						



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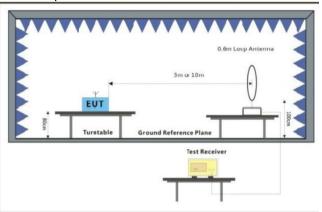
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Test Setup:



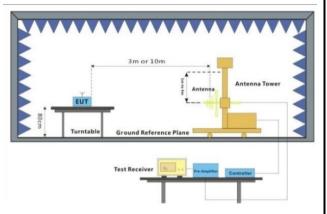


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

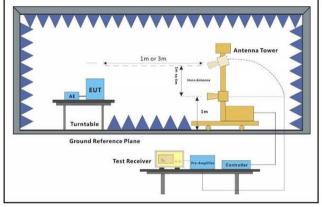


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



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	 The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case.
	 Repeat above procedures until all frequencies measured was complete.
	j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
	 k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
	I. At a measurement distance of 1 meter the limit line was increased by $20*LOG(3/1) = 9.54 dB$.
Test Configuration:	Measurements below 30MHz
	• RBW = 10 kHz
	• VBW = 30 kHz
	Detector = Peak & Average & Quasi-peak
	Trace mode = max hold
	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW > 4.75
	VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
	For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	: Appendix



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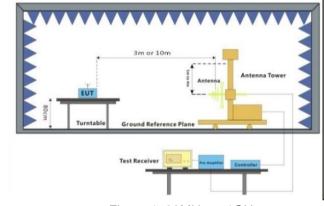
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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10: 2013 Section	11.12					
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Chaml	per)				
Limit:	Frequency	Limit (dBuV/m)	Remark				
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz	43.5	Quasi-peak				
	216MHz-960MHz	46.0	Quasi-peak				
	960MHz-1GHz	54.0	Quasi-peak				
	Above 1GHz	54.0	Average Value				
	Above 1GHZ	74.0	Peak Value				

Test Setup:



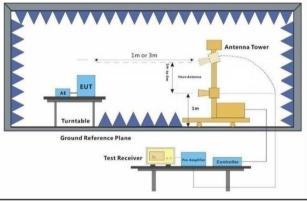


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	 For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest channel, the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	• Sweep time = auto
	Trace mode = max hold Average Management Alexand 4000MHz
	Average Measurements Above 1000MHz
	 RBW = 1 MHz VBW = 10 Hz, when duty cycle is no less than 98 percent.
	 VBW = 10 Hz, when duty cycle is no less than 96 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum
	transmission duration over which the transmitter is on and is transmitting at its
	maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.



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Test Results: Pass

The detailed test data see: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

Lab B:

No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
		± 4.6dB (9kHz to 30MHz)		
	Radiated Emission	± 4.9dB (30MHz to 1GHz)		
2		± 4.9dB (1GHz to 6GHz)		
		± 4.7dB (6GHz to 18GHz)		
		± 5.26dB (Above 18GHz)		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

Lab A:

	RF Test Equipment								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)				
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07				
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05				
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10				
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR				
Measurement Software	TST	TST-272 V2.0	SUWI-03-55-03	NCR	NCR				
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10				
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05				
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05				
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05				
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2023/11/21	2024/11/20				
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32-01	2023/11/21	2024/11/20				
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05				
Signal Generator	ROHDE&SCHWARZ	SMM100A	SUWI-01-07-04	2023/02/16	2024/02/15				
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2023/11/21	2024/11/20				



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Lab B:

	CE Test System							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2023/06/30	2024/06/29			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/08/30	2024/08/29			
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR			
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2023/08/30	2024/08/29			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2023/06/30	2024/06/29			



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PSE Took System										
RSE Test System										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)					
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08					
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15					
Spectrum Analyzer	ROHDE& SCHWARZ	FSV3044	XAW01-13-05	2023/05/15	2024/05/14					
Test receiver	ROHDE& SCHWARZ	ESR	XAW01-08-01	2023/08/30	2024/08/29					
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27					
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27					
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22					
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR					
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR					
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR					
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR					
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2023/05/15	2024/05/14					
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2023/08/30	2024/08/29					
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2023/08/30	2024/08/29					
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2023/08/30	2024/08/29					
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2023/09/04	2024/09/03					
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR					
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2024/05/25					

Remark: NCR=No Calibration Requirement



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	7.64	2408.92	2416.56	≥0.5	PASS
11b	Ant1	2437	8.16	2432.96	2441.12	≥0.5	PASS
11b	Ant1	2462	8.64	2457.92	2466.56	≥0.5	PASS
11g	Ant1	2412	14.16	2405.68	2419.84	≥0.5	PASS
11g	Ant1	2437	14.32	2430.64	2444.96	≥0.5	PASS
11g	Ant1	2462	16.04	2454.20	2470.24	≥0.5	PASS
11n20SISO	Ant1	2412	13.96	2405.68	2419.64	≥0.5	PASS
11n20SISO	Ant1	2437	16.04	2429.44	2445.48	≥0.5	PASS
11n20SISO	Ant1	2462	17.24	2453.60	2470.84	≥0.5	PASS
11n40SISO	Ant1	2422	28.96	2410.64	2439.60	≥0.5	PASS
11n40SISO	Ant1	2437	32.72	2419.40	2452.12	≥0.5	PASS
11n40SISO	Ant1	2452	35.20	2434.40	2469.60	≥0.5	PASS



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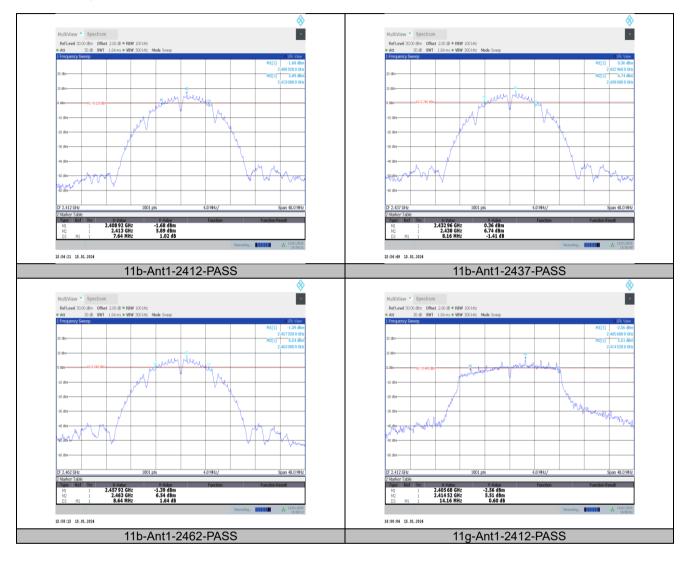


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Test Graphs





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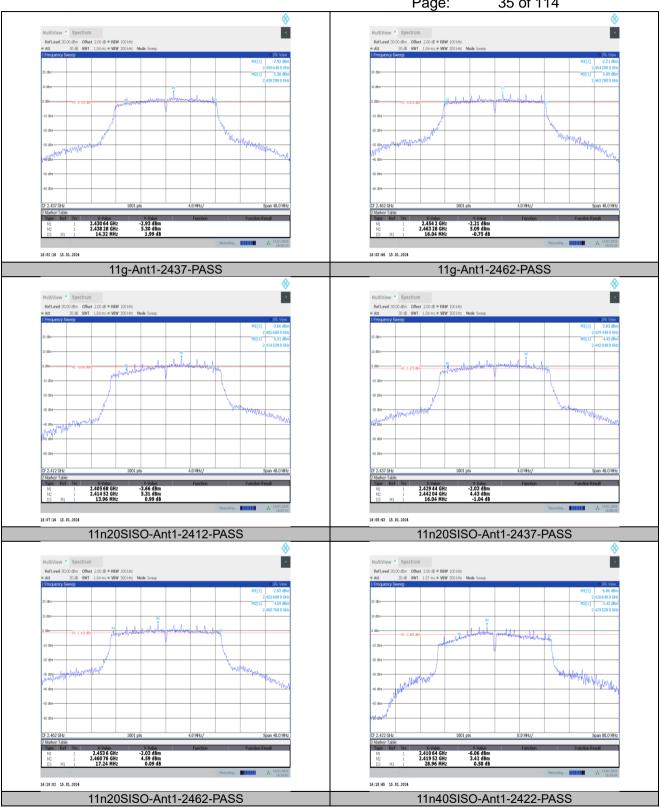
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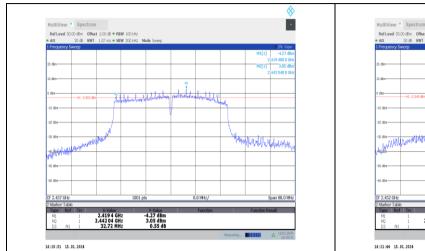
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11n40SISO-Ant1-2437-PASS





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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant1	2412	12.544	2406.1520	2418.6960	
11b	Ant1	2437	12.863	2430.7285	2443.5917	
11b	Ant1	2462	13.23	2455.4056	2468.6353	1
11g	Ant1	2412	16.769	2403.8743	2420.6431	
11g	Ant1	2437	16.985	2428.6570	2445.6415	
11g	Ant1	2462	17.349	2453.4239	2470.7732	For
11n20SISO	Ant1	2412	17.788	2403.3319	2421.1197	Report
11n20SISO	Ant1	2437	17.876	2428.1685	2446.0448	Purpose
11n20SISO	Ant1	2462	18.222	2452.9851	2471.2073	
11n40SISO	Ant1	2422	36.147	2404.3392	2440.4863]
11n40SISO	Ant1	2437	36.285	2418.8121	2455.0971]
11n40SISO	Ant1	2452	36.444	2433.8633	2470.3075]



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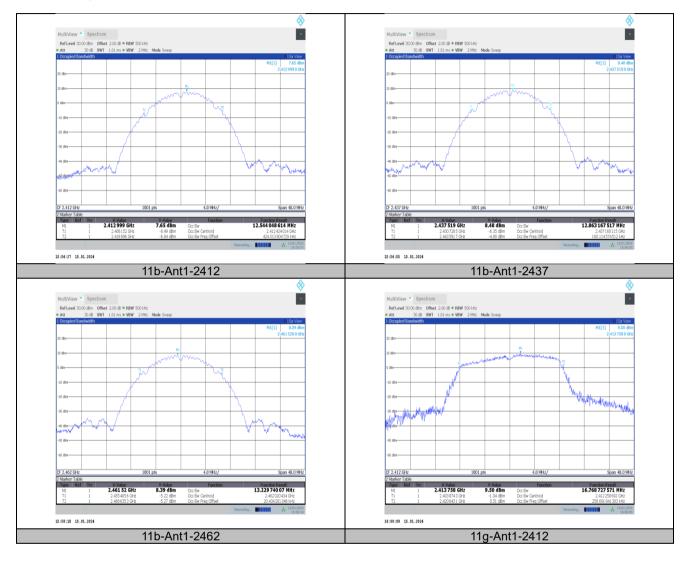


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Test Graphs





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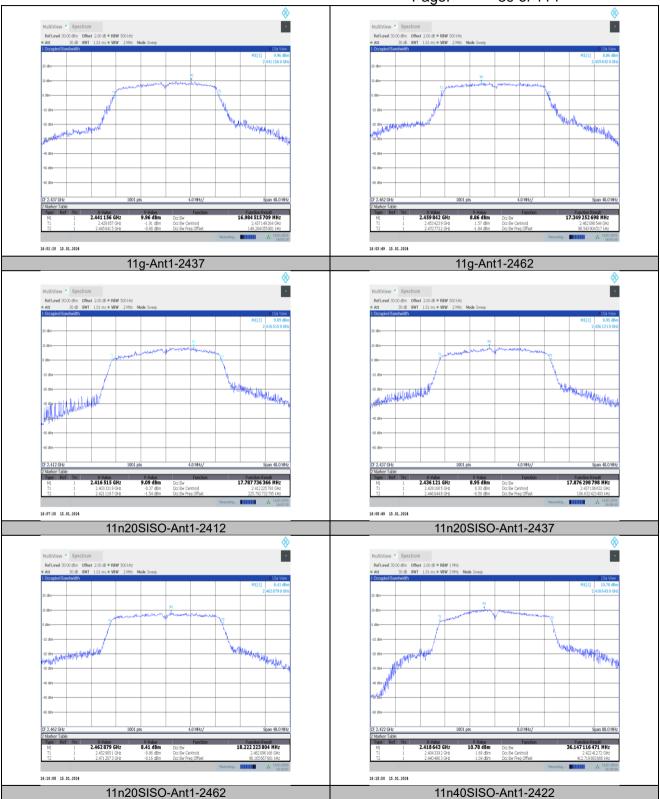
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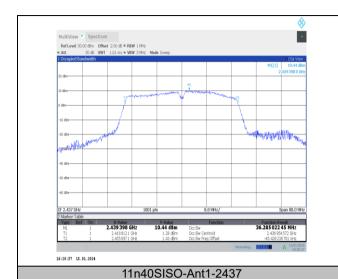
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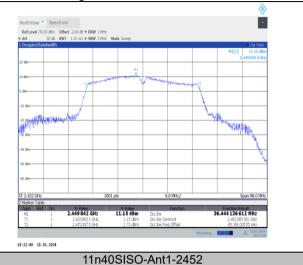


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Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	18.12	≤30.00	PASS
11b	Ant1	2437	18.22	≤30.00	PASS
11b	Ant1	2462	18.51	≤30.00	PASS
11g	Ant1	2412	24.81	≤30.00	PASS
11g	Ant1	2437	24.62	≤30.00	PASS
11g	Ant1	2462	24.64	≤30.00	PASS
11n20SISO	Ant1	2412	25.01	≤30.00	PASS
11n20SISO	Ant1	2437	24.88	≤30.00	PASS
11n20SISO	Ant1	2462	24.85	≤30.00	PASS
11n40SISO	Ant1	2422	24.81	≤30.00	PASS
11n40SISO	Ant1	2437	24.83	≤30.00	PASS
11n40SISO	Ant1	2452	24.91	≤30.00	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-8.42	≤8.00	PASS
11b	Ant1	2437	-7.92	≤8.00	PASS
11b	Ant1	2462	-7.41	≤8.00	PASS
11g	Ant1	2412	-11.23	≤8.00	PASS
11g	Ant1	2437	-10.84	≤8.00	PASS
11g	Ant1	2462	-11.79	≤8.00	PASS
11n20SISO	Ant1	2412	-11.11	≤8.00	PASS
11n20SISO	Ant1	2437	-11.10	≤8.00	PASS
11n20SISO	Ant1	2462	-11.32	≤8.00	PASS
11n40SISO	Ant1	2422	-12.87	≤8.00	PASS
11n40SISO	Ant1	2437	-13.55	≤8.00	PASS
11n40SISO	Ant1	2452	-13.04	≤8.00	PASS



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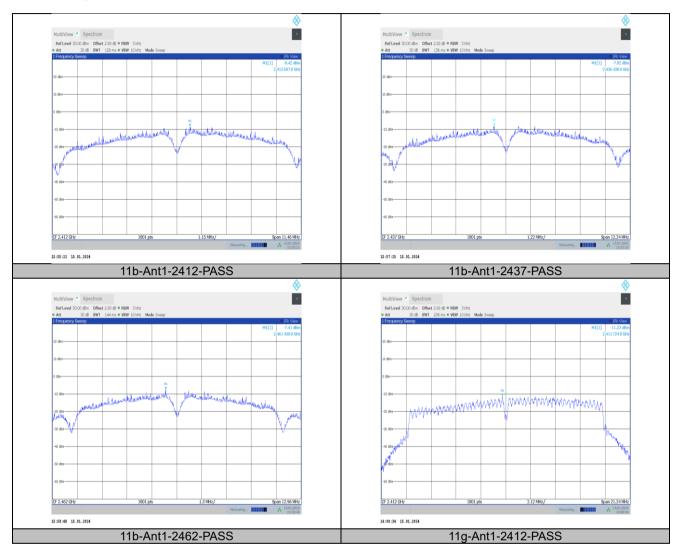


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Test Graphs





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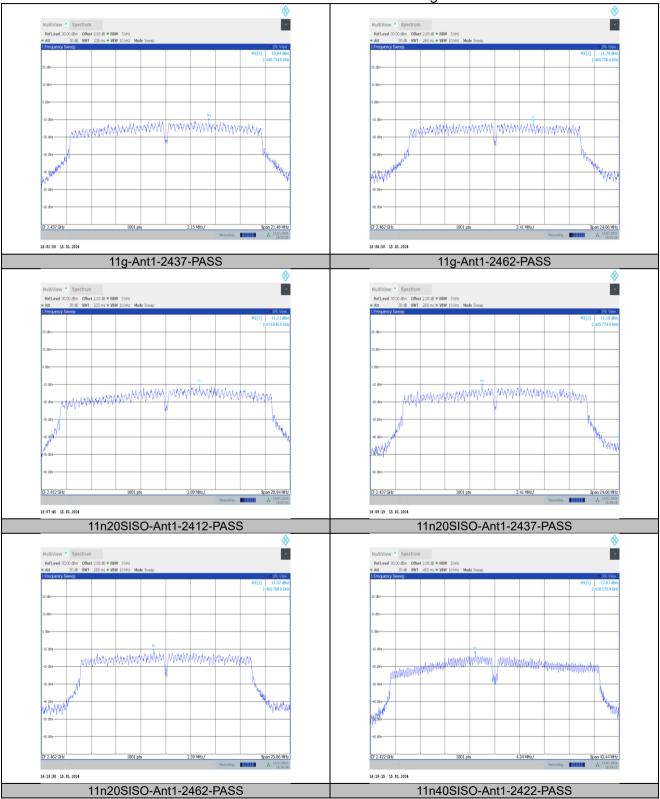
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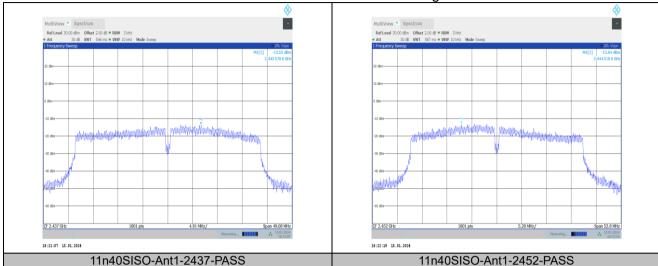
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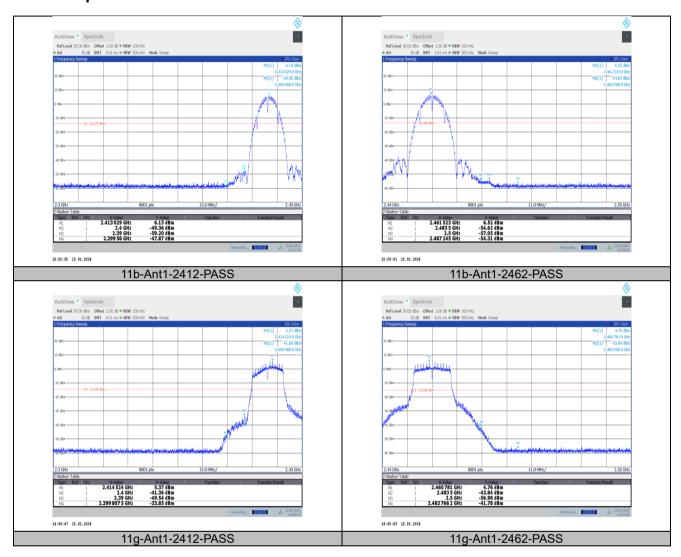


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Band edge measurements Test Graphs





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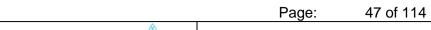
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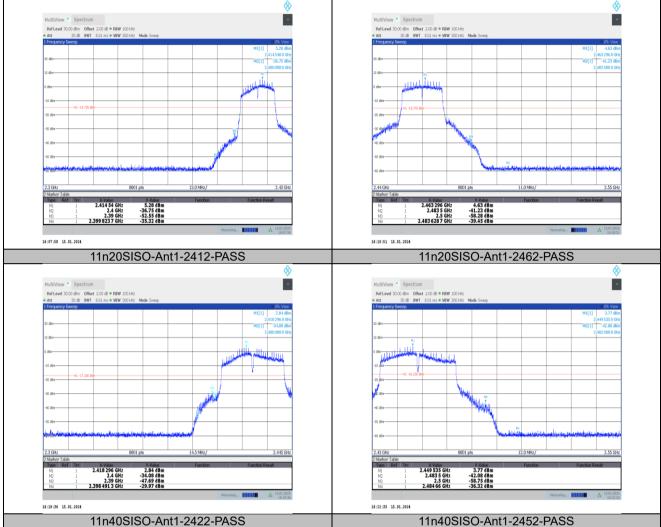
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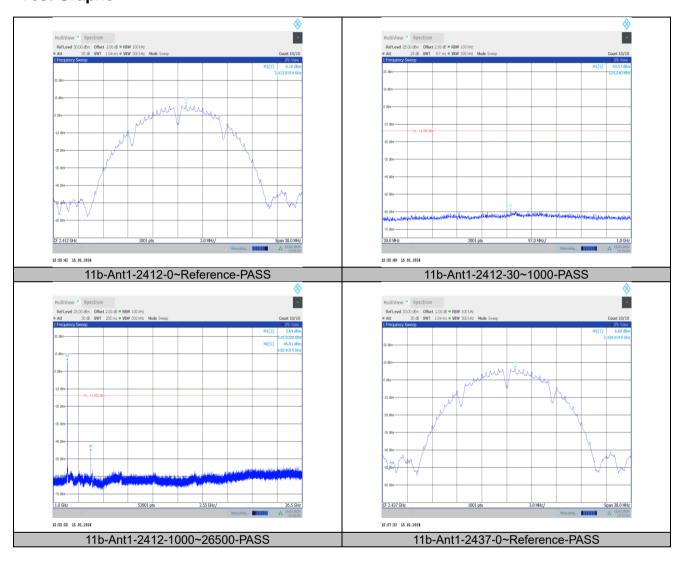


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Conducted Spurious Emission Test Graphs





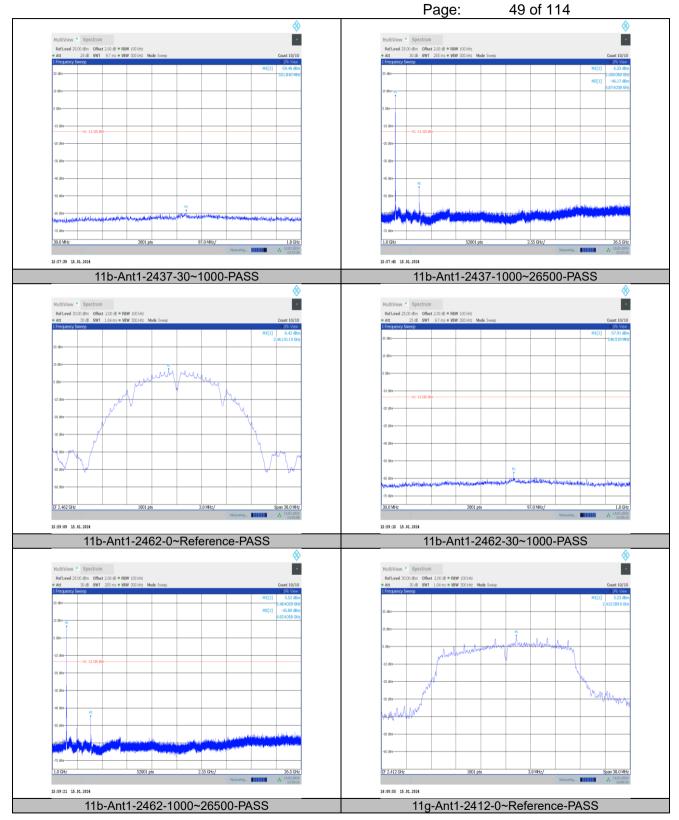
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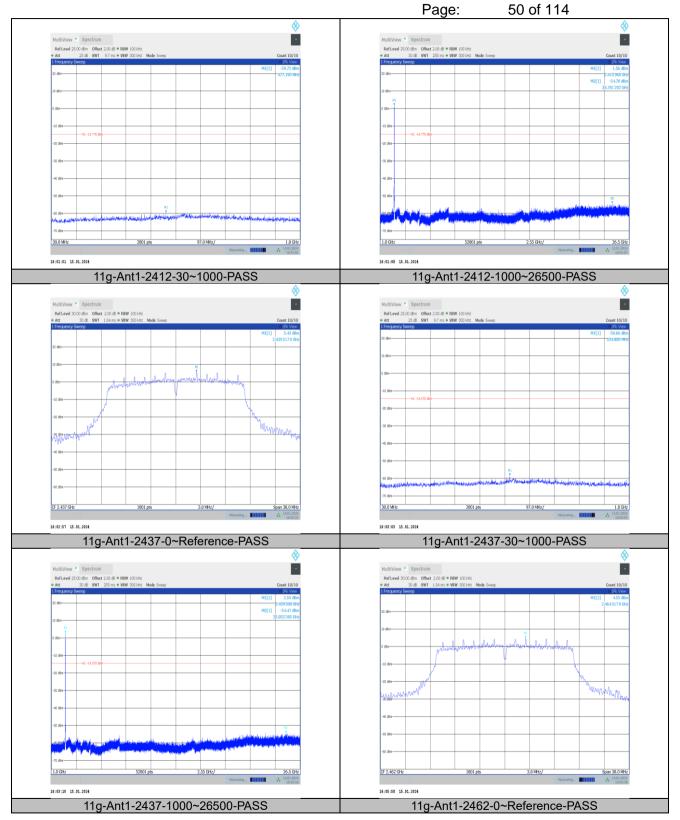
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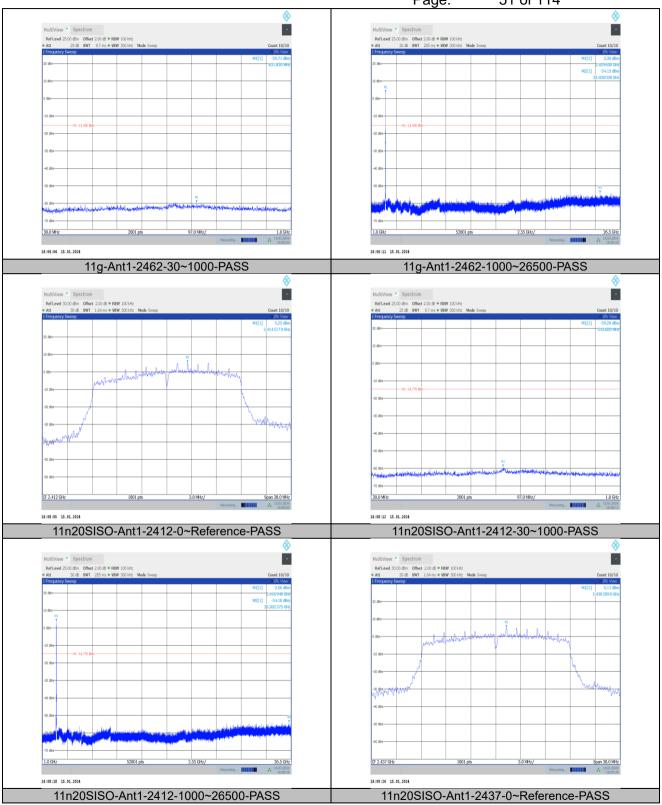
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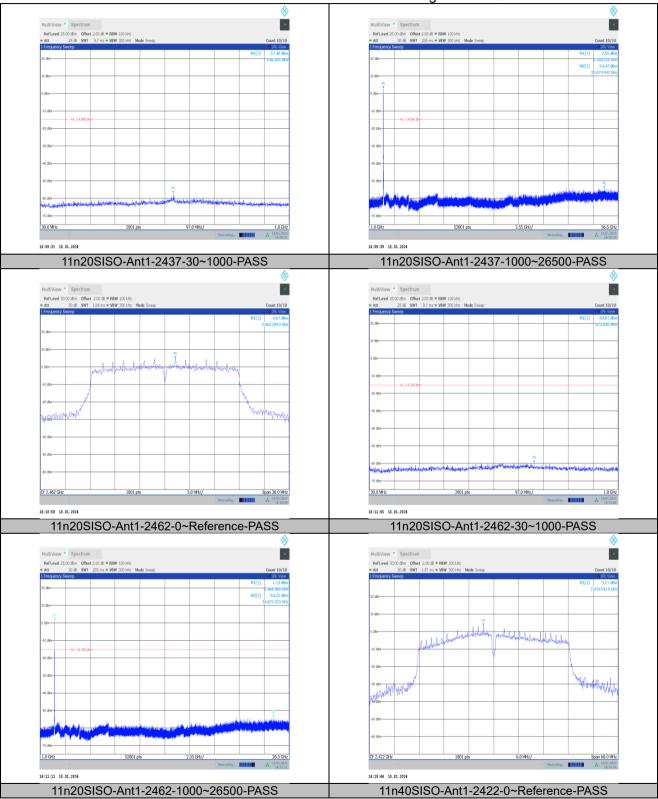
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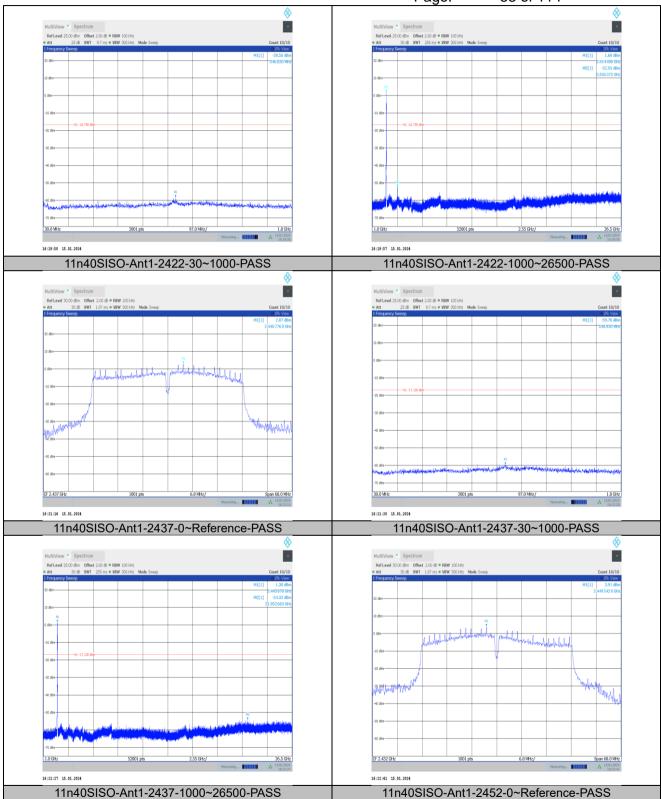
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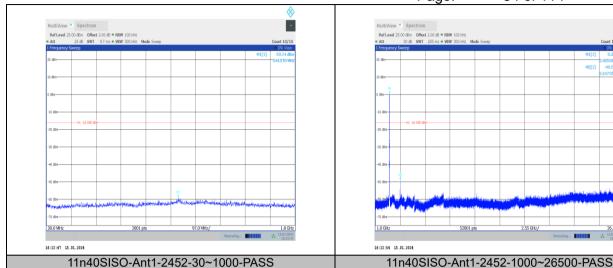
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant1	2412	8.40	8.51	98.71	0.06
11g	Ant1	2412	1.39	1.50	92.67	0.33
11n20SISO	Ant1	2412	1.29	1.40	92.14	0.36
11n40SISO	Ant1	2422	0.64	0.75	85.33	0.69

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.40	8.51	98.71	0.11905	10Hz*
11g	1.39	1.50	92.67	0.71942	0.75KHz
11n20SISO	1.29	1.40	92.14	0.77519	0.82KHz
11n40SISO	0.64	0.75	85.33	1.56250	1.6KHz

^{*}Duty cycle > 98% VBW setting=10Hz



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Test Graphs





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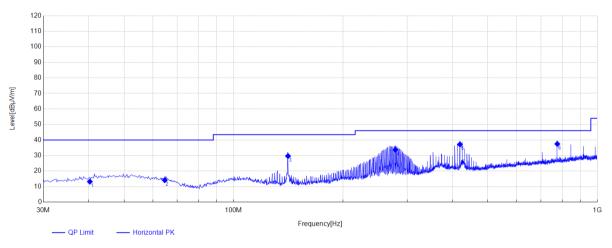
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Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: 802.11n40_Channel 9



QP Detector

Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	40.2841	13.19	-27.67	27.71	13.23	40.00	26.77	Horizontal
2	64.7329	12.10	-27.03	29.09	14.16	40.00	25.84	Horizontal
3	141.1842	7.76	-26.51	48.45	29.70	43.50	13.80	Horizontal
4	278.5637	12.90	-25.59	46.39	33.70	46.00	12.30	Horizontal
5	419.2418	16.05	-24.84	45.97	37.18	46.00	8.82	Horizontal
6	776.2733	20.43	-23.21	40.27	37.49	46.00	8.51	Horizontal



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