

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: www.cqa-cert.com Report Template Revision Date: 2021-11-03

Report Template Version: V05

Test Report

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel	Result	Limit [dBm]	Verdict
			Reference	-0.24	-0.24		PASS
		2412	30~1000	-0.24	-58.49	≤-30.24	PASS
			1000~26500	-0.24	-54.65	≤-30.24	PASS
			Reference	0.86	0.86		PASS
11B	Ant1	2437	30~1000	0.86	-57.88	≤-29.14	PASS
			1000~26500	0.86	-54.75	≤-29.14	PASS
			Reference	1.37	1.37		PASS
		2462	30~1000	1.37	-59.5	≤-28.63	PASS
			1000~26500	1.37	-55.46	≤-28.63	PASS
			Reference	-2.36	-2.36		PASS
	Ant1	2412	30~1000	-2.36	-58.4	≤-32.36	PASS
			1000~26500	-2.36	-54.51	≤-32.36	PASS
		2437	Reference	-1.99	-1.99		PASS
11G			30~1000	-1.99	-59.27	≤-31.99	PASS
			1000~26500	-1.99	-55.46	≤-31.99	PASS
		2462	Reference	-1.71	-1.71		PASS
			30~1000	-1.71	-57.92	≤-31.71	PASS
			1000~26500	-1.71	-55.05	≤-31.71	PASS
	Ant1	2412	Reference	-2.40	-2.40		PASS
			30~1000	-2.40	-58.38	≤-32.4	PASS
			1000~26500	-2.40	-54.27	≤-32.4	PASS
11N20SISO		2437	Reference	-1.64	-1.64		PASS
			30~1000	-1.64	-59.67	≤-31.64	PASS
			1000~26500	-1.64	-55.3	≤-31.64	PASS
		2462	Reference	-1.73	-1.73		PASS
			30~1000	-1.73	-59.94	≤-31.73	PASS
			1000~26500	-1.73	-55.07	≤-31.73	PASS



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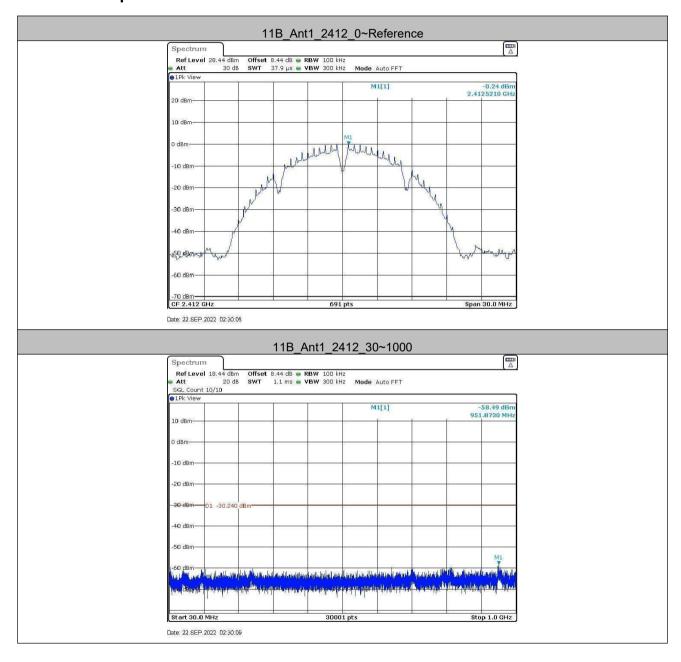
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Test Graphs



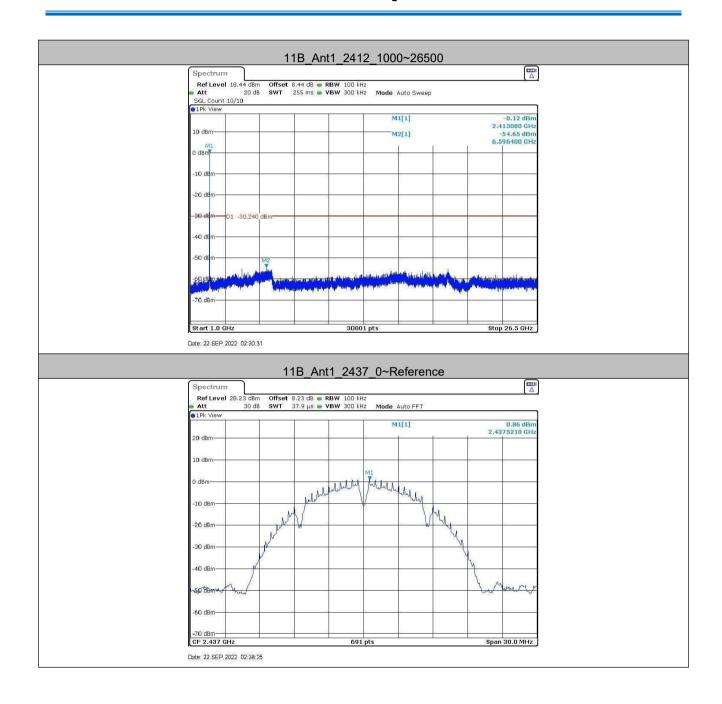


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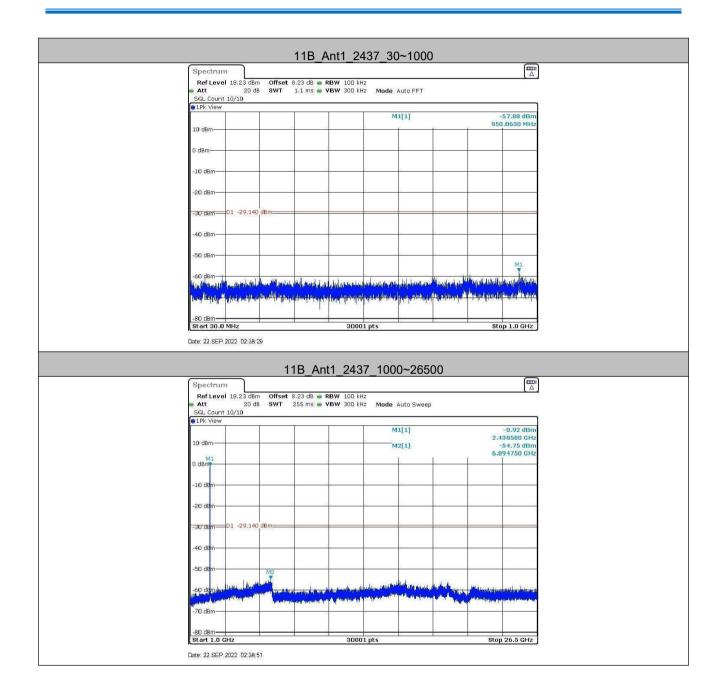


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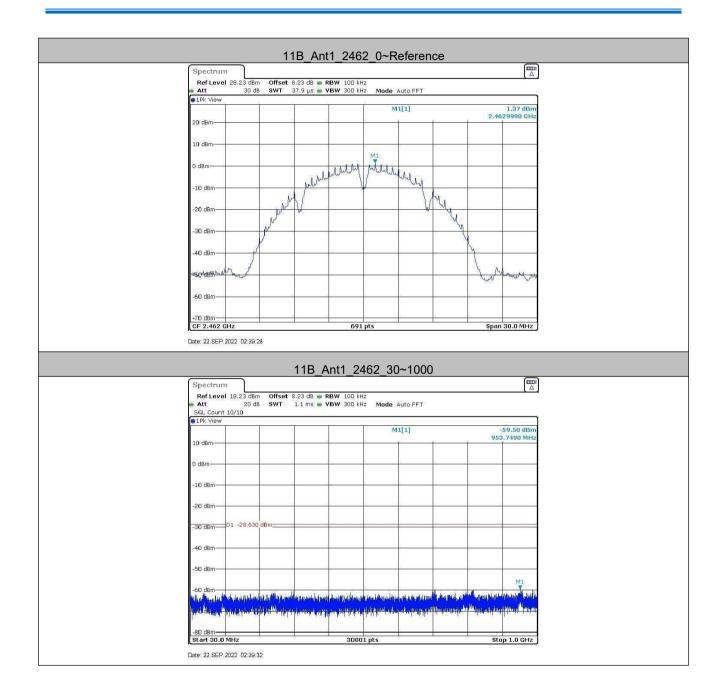


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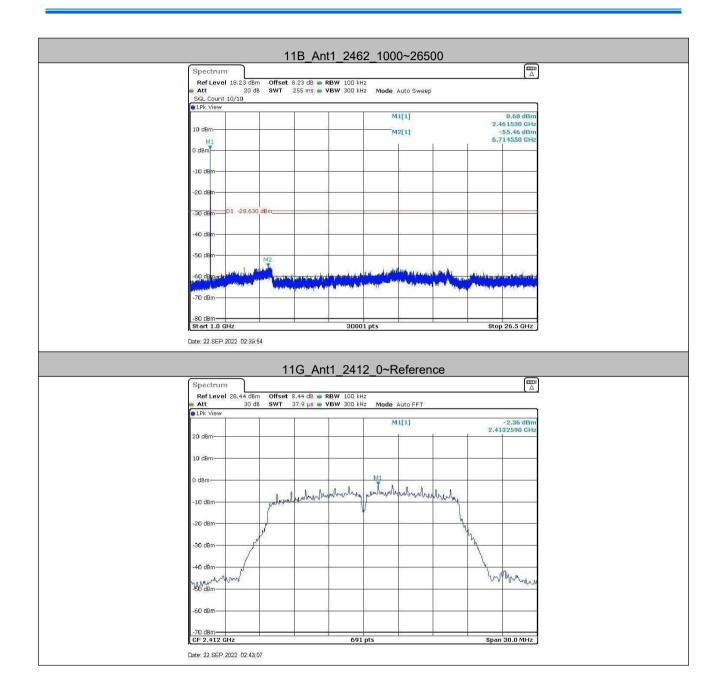




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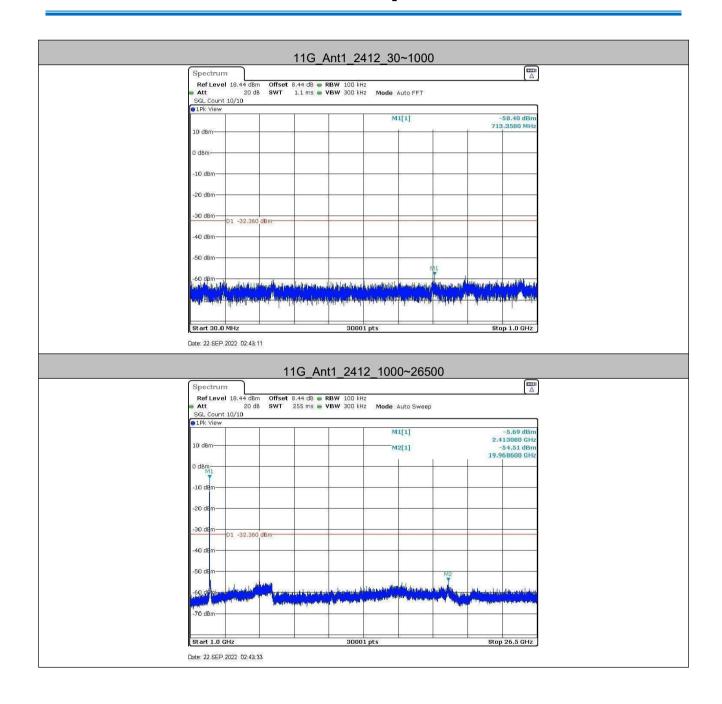


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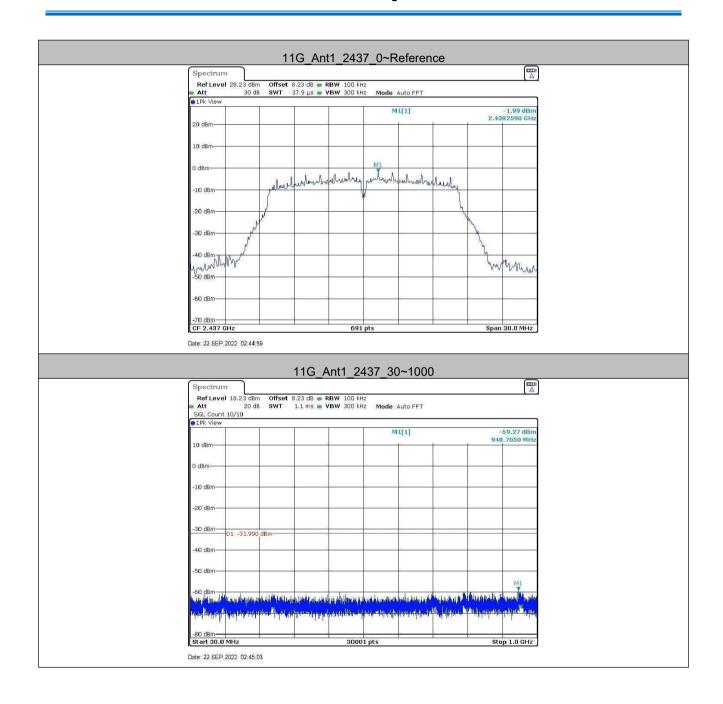


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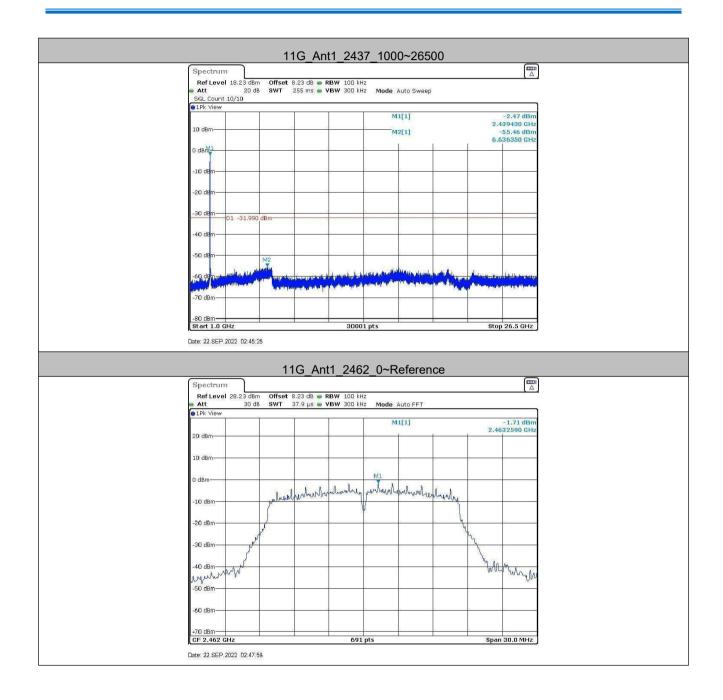


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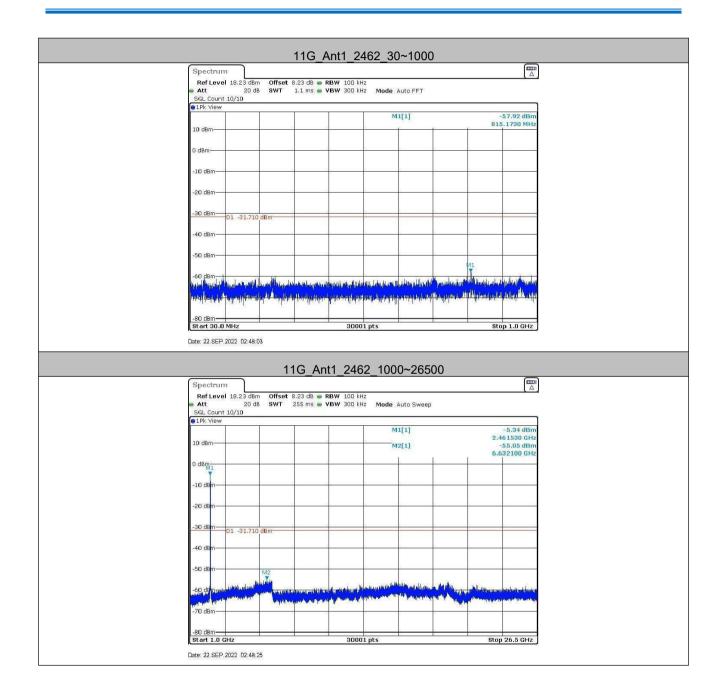


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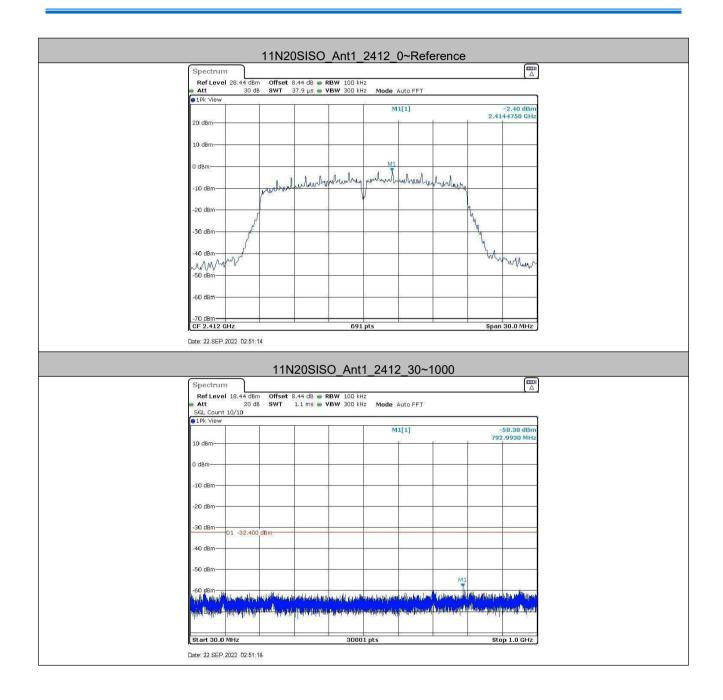


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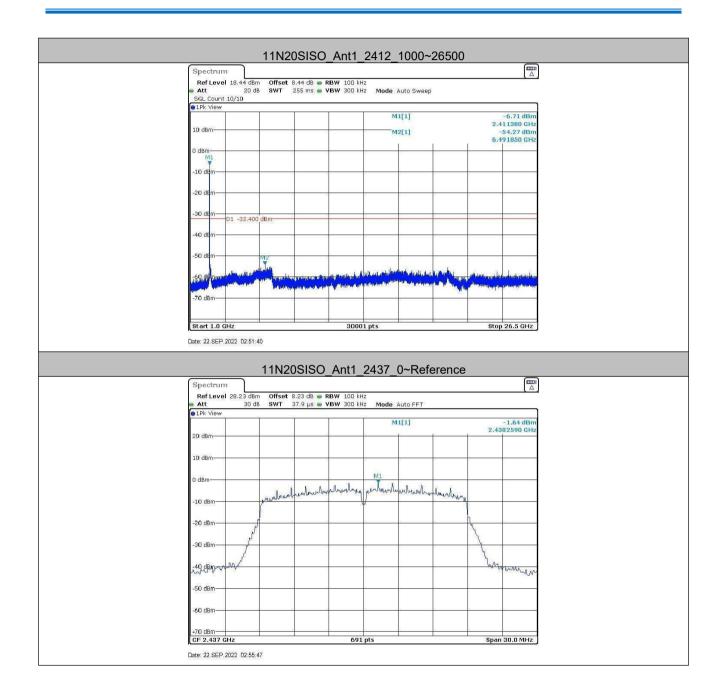


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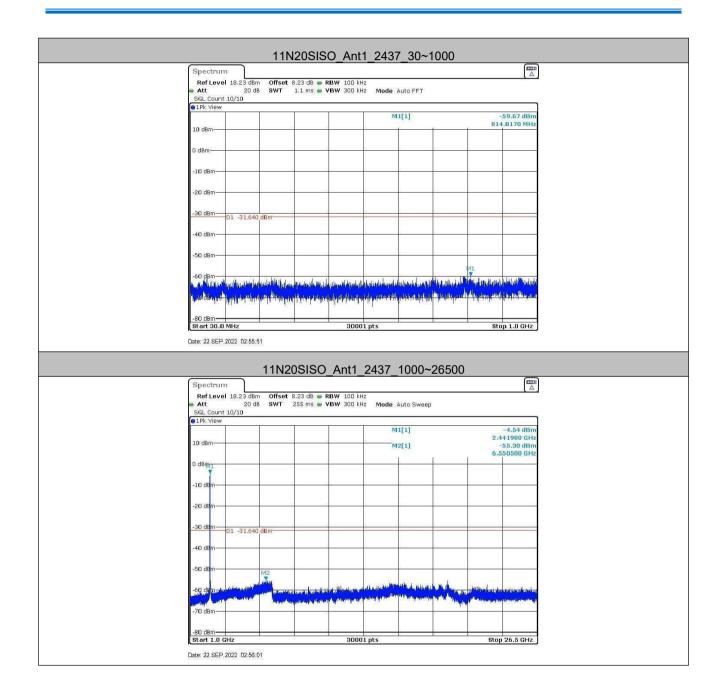


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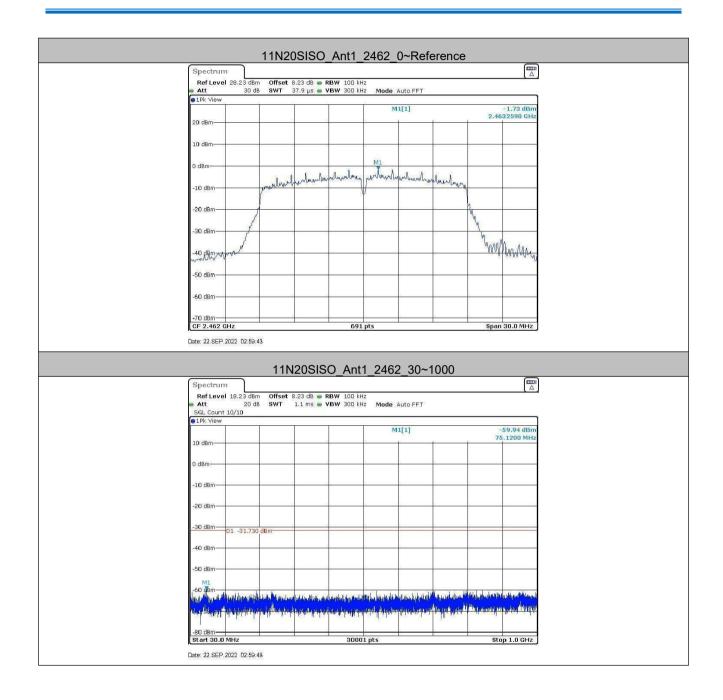


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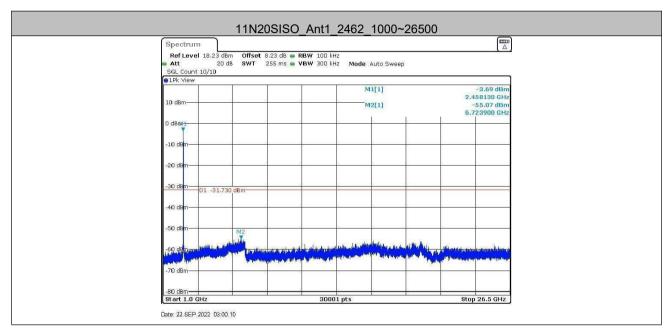
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Test Report



Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



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Test Report

4.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
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	100 kHz	300kHz	Quasi-peak				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above IGHZ	Peak	1MHz	10Hz	Average				
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				
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total pemission level radiated by the device.								



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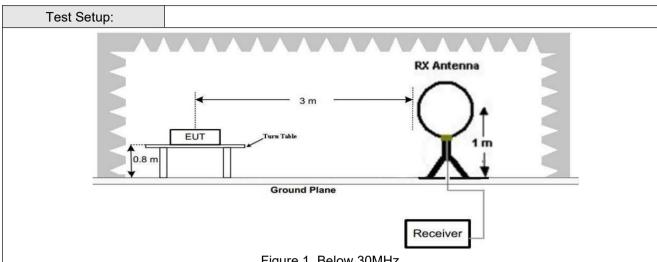


Figure 1. Below 30MHz

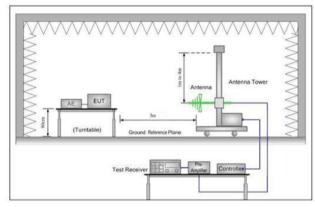


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 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.
 - 2) Above 1G: 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.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

The EUT was set 3 meters away from the interference-receiving antenna,



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802.11n(HT20).					
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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 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 X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.		c. 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			
Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 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 X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Exploratory Test Mode: Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11p; 6.5Mbps of rate is the worst case of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.		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			
limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 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 X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.					
channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11p; 6.5Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.		limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average			
Transmitting mode, And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.					
Exploratory Test Mode: Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.		Transmitting mode, And found the X axis positioning which it is worse			
highest channel. Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.		i. Repeat above procedures until all frequencies measured was complete.			
the Charge +Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.	Exploratory Test Mode:				
of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.	Final Test Mode:				
middle channel is the worst case. Only the worst case is recorded in the report.		of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of			
·		For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case.			
Test Results: Pass		Only the worst case is recorded in the report.			
	Test Results:	Pass			



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4.8.1 Radiated emission below 1GHz

1#

5

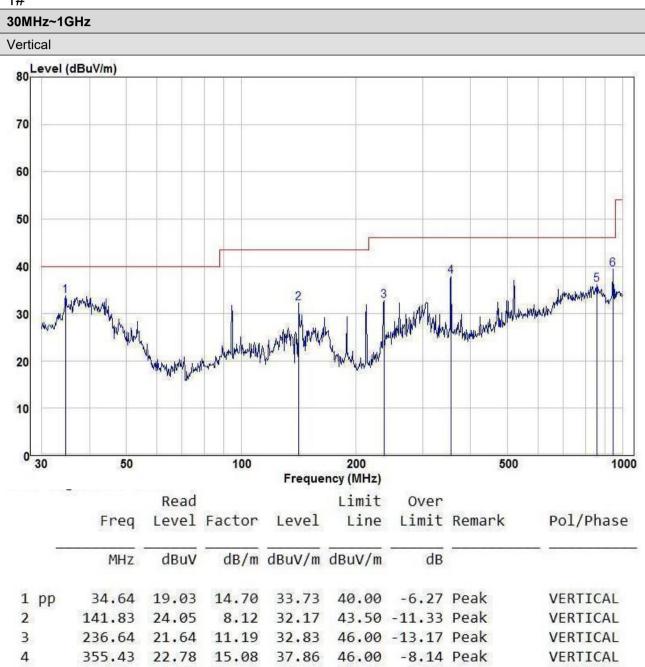
6

857.02

945.44

12.23

15.80



36.25

39.42

46.00

46.00

24.02

23.62

-9.75 Peak

-6.58 Peak

VERTICAL

VERTICAL



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Remark:

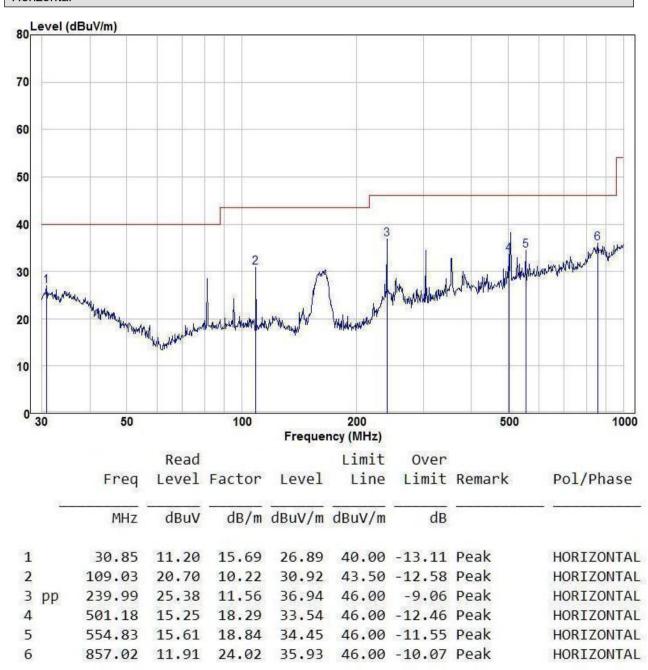
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Horizontal





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The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



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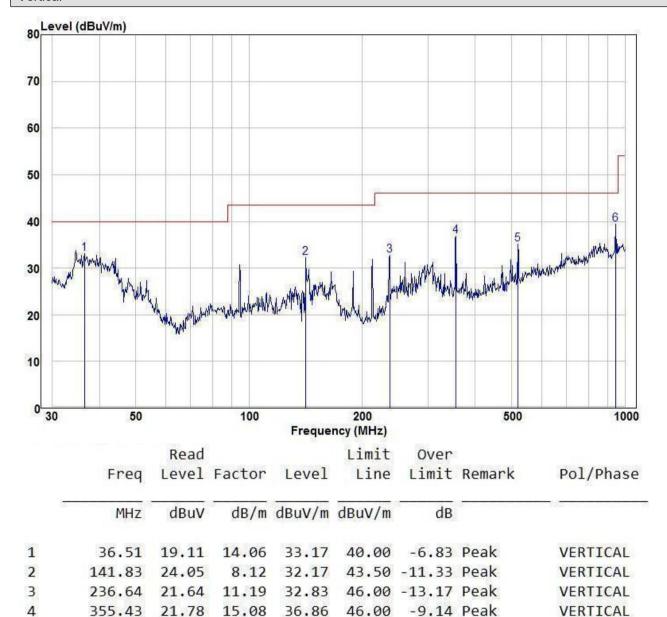
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Test Report

2#

30MHz~1GHz

Vertical



Remark:

6 pp

5

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

35.10

39.42

46.00 -10.90 Peak

-6.58 Peak

46.00

VERTICAL

VERTICAL

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

16.62

15.80

18.48

23.62

Level = Read Level + Factor,

519.06

945.44



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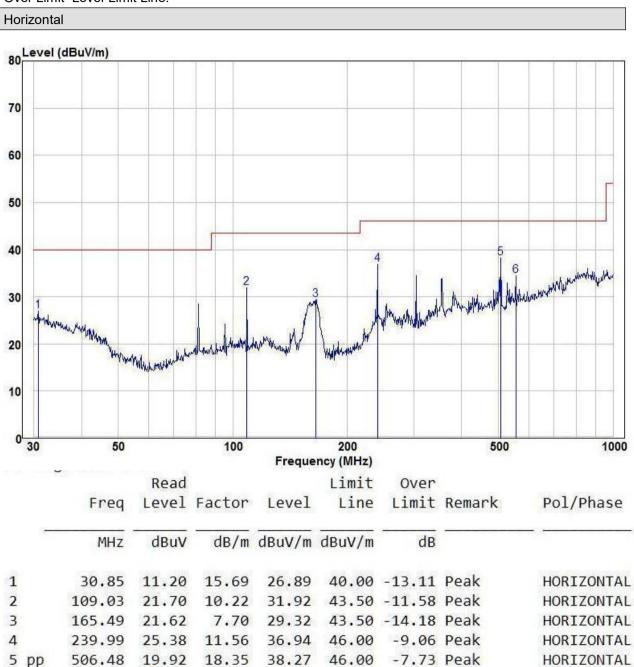
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Test Report

Over Limit=Level-Limit Line.



Remark:

6

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

34.45

46.00 -11.55 Peak

HORIZONTAL

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

18.84

15.61

Level = Read Level + Factor,

554.83

Over Limit=Level-Limit Line.



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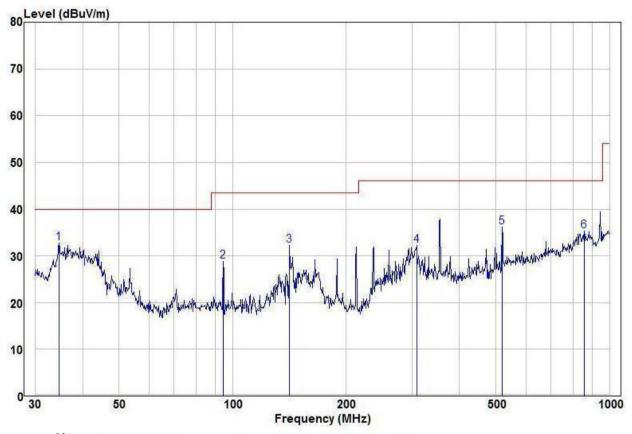
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Test Report

3#

30MHz~1GHz Vertical



	MAINE VERY	Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
8	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 pp	34.64	18.03	14.70	32.73	40.00	-7.27	Peak	VERTICAL
2	94.43	18.45	10.30	28.75	43.50	-14.75	Peak	VERTICAL
3	141.83	24.05	8.12	32.17	43.50	-11.33	Peak	VERTICAL
4	307.83	18.31	13.92	32.23	46.00	-13.77	Peak	VERTICAL
5	519.06	17.62	18.48	36.10	46.00	-9.90	Peak	VERTICAL
6	857.02	11.23	24.02	35.25	46.00	-10.75	Peak	VERTICAL



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Website: www.cqa-cert.com Report Template Revision Date: 2021-11-03

Report Template Version: V05

Test Report

Remark:

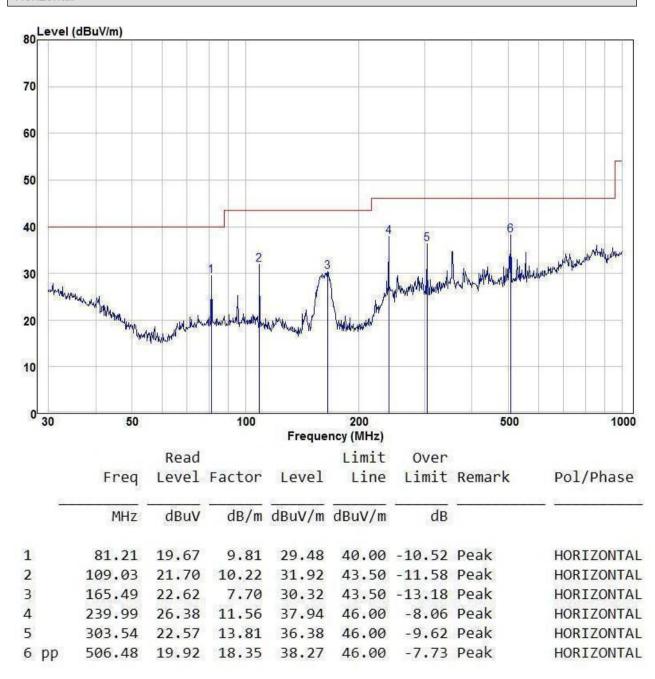
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor.

Over Limit=Level-Limit Line.

Horizontal





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Test Report

Remark:

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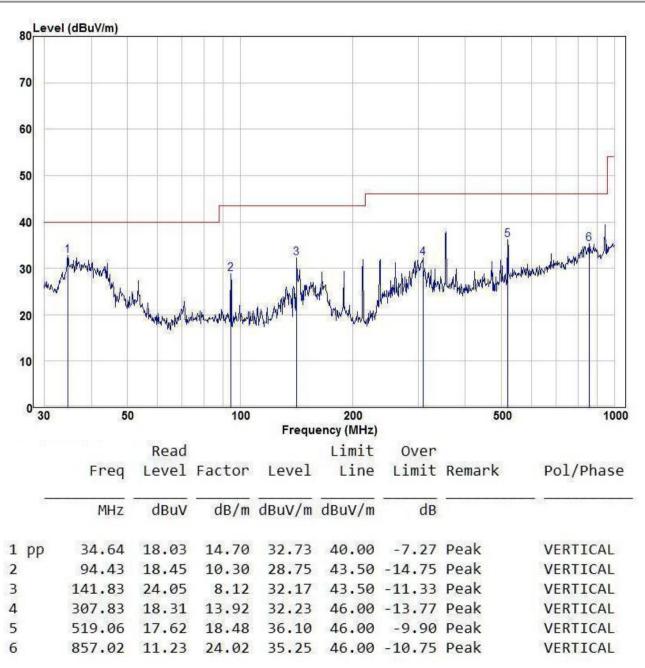
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Test Report

4#

30MHz~1GHz Vertical





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Test Report

Remark:

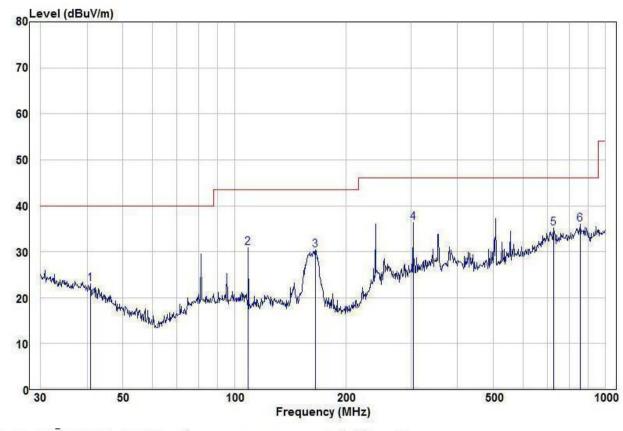
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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Level = Read Level + Factor.

Over Limit=Level-Limit Line.

Horizontal



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHZ	dBuV	dB/m	dBuV/m	dBuV/m	dB	. 	
1	40.84	10.68	12.40	23.08	40.00	-16.92	Peak	HORIZONTAL
2	109.03	20.70	10.22	30.92	43.50	-12.58	Peak	HORIZONTAL
3	165.49	22.62	7.70	30.32	43.50	-13.18	Peak	HORIZONTAL
4 pp	303.54	22.57	13.81	36.38	46.00	-9.62	Peak	HORIZONTAL
5	726.81	13.88	21.27	35.15	46.00	-10.85	Peak	HORIZONTAL
6	857.02	11.91	24.02	35.93	46.00	-10.07	Peak	HORIZONTAL



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Remark:

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Level = Read Level + Factor,

Over Limit=Level-Limit Line.



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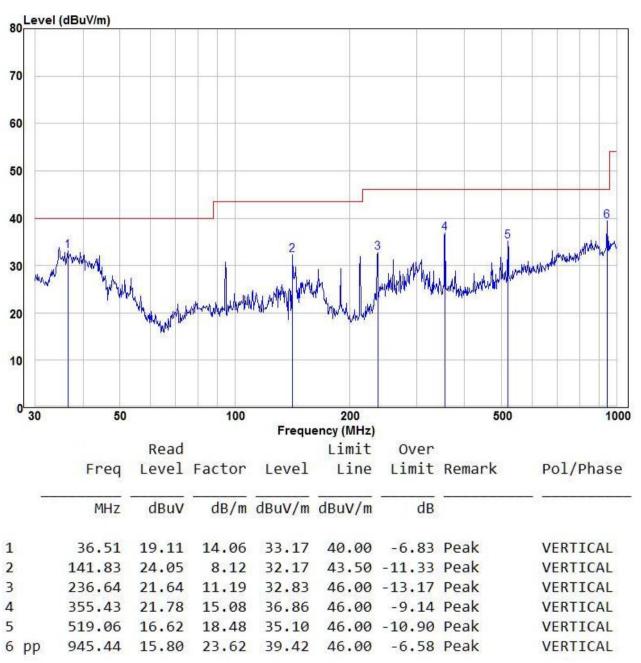
Report Template Version: V05

Test Report

5#

30MHz~1GHz

Vertical



Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,