No. 1 Workshop, M-10, Middle section, Science & Technology

Park, Shenzhen, Guangdong, China 518057

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FCC REPORT

Application No.: SZEMO101207712ET(SGS HK NO.:2026034EL)

Applicant: Educational Insights

Product Name: WIRELESS EGGSPERT® 2.4GHZ

Operation Frequency: 2404MHz to 2476MHz

FCC ID: MJO-EI-7881M

Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249: 2009

Date of Receipt 2010-12-21

Date of Test 2010-12-24 to 2011-01-04

Date of Issue 2011-01-18

Test Result : PASS *

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

Authorized Signature:

Jack Zhang

EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a)/15.209	Pass
Band edge (Radiated Emission)	15.249(a)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

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

Fail: The EUT does not comply with the essential requirements in the standard.

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4 General Information

4.1 Client Information

Applicant:	Educational Insights		
Address of Applicant:	152 Walnut Street, Suite 201, Gardena CA 90248		

4.2 General Description of E.U.T.

Product Name:	EI-7881 WIRELESS EGGSPERT® 2.4GHZ
Item No.:	EI-7881
Request Age Grading:	6+
Country of Origin:	Hong Kong
Country of Destination:	US
Operation Frequency:	2404MHz to 2476MHz
Channel numbers:	16
Modulation type:	FSK
Antenna Type:	Integral
Antenna gain:	-2dBi
Wireless Eggspert:	AC adapter:MODEL NO. DV-7520
	INPUT:120VAC 60Hz 3W
	OUTPUT:7.5VDC 200mA
	EUT power supply: 6.0V DC(1.5V X 4"AA" Size Batteries)

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Operation	Operation Frequency each of channel									
Channel Frequency Channel Frequency Channel Frequency Channel										
1	2404MHz	5	2412MHz	9	2438MHz	13	2462MHz			
2	2407MHz	6	2429MHz	10	2440MHz	14	2465MHz			
3	2408MHz	7	2432MHz	11	2445MHz	15	2467MHz			
4	2410MHz	8	2436MHz	12	2459MHz	16	2476MHz			

Note:

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

Channel	Frequency
The lowest channel	2404MHz
The middle channel	2438MHz
The Highest channel	2476MHz

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4.3 E.U.T Operation mode

Operating Environment:

Temperature: 24.0 °C
Humidity: 52 % RH
Atmospheric Pressure: 1008 mbar

Test mode:

Normal operation mode: Keep the EUT connect with Teacher Remote and Answer Button

AC charge+normal Keep the EUT connect with Teacher Remote and Answer Button and AC

operation mode: charge EUT

Transmitting mode: EUT transmitted continuous with modulation signal at the specifical

channel

Idle mode: Keep the EUT at Idle mode

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4.4 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, June 27, 2008.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.

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4.7 Test Instruments list:

RE i	RE in Chamber								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2010-06-17	2011-06-17			
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2010-11-05	2011-11-05			
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A			
4	Coaxial cable	SGS	N/A	SEL0028	2008-06-18	2011-06-18			
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2010-11-09	2011-11-09			
6	Double-ridged horn (1-18GHz) ETS-LINDGREN		3117	SEL0006	2010-11-09	2011-11-09			
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2010-11-09	2011-11-09			
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2010-06-02	2011-06-02			
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2010-10-27	2011-10-27			
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	2010-06-04	2011-06-04			
11	Band filter	Amindeon	82346	SEL0094	2010-06-02	2011-06-02			

Con	Conducted Emission								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A			
2	LISN	ETS-LINDGREN	3816/2	SEL0021	2010-06-02	2011-06-02			
3	Two-Line V-Network	Rohde & Schwarz	ENV216	SEL0152	2010-10-27	2011-10-27			
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2010-06-02	2011-06-02			
5	Coaxial Cable	SGS	N/A	SEL0024	2008-06-18	2011-06-18			

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5 Test results and Measurement Data

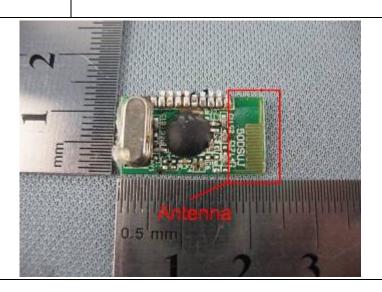
5.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203

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.

E.U.T Antenna:



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5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10: 2009						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz						
Limit:	[[[]] [] [] [] [] [] [] [] [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				
Took model	* Decreases with the logarithm AC charge+normal operation m						
Test mode: Test procedure							
	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.						
Test setup:	Refere	nce Plane	_				
	AUX Equipment E.U. Test table/Insulation pla Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m		er — AC power				
Test Instruments:	Refer to section 4.7 for details						
Test results:	Pass						

Measurement Data

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

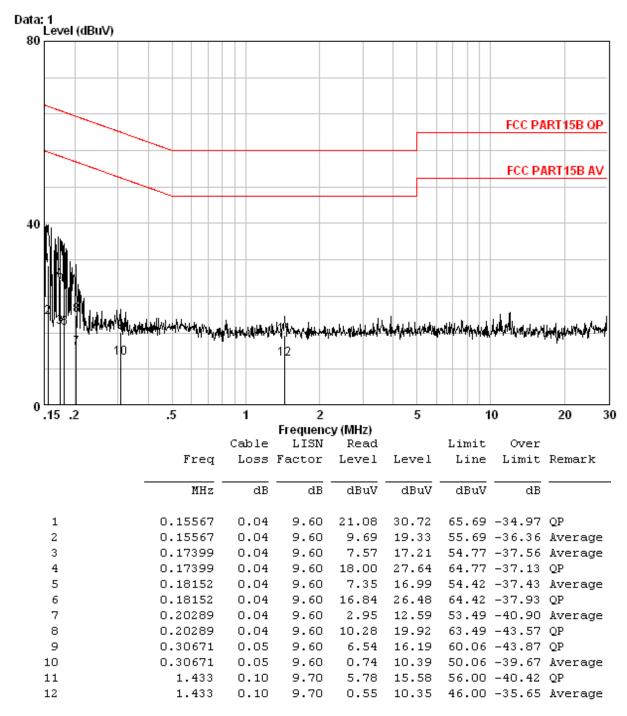
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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Live Line:



Notes:

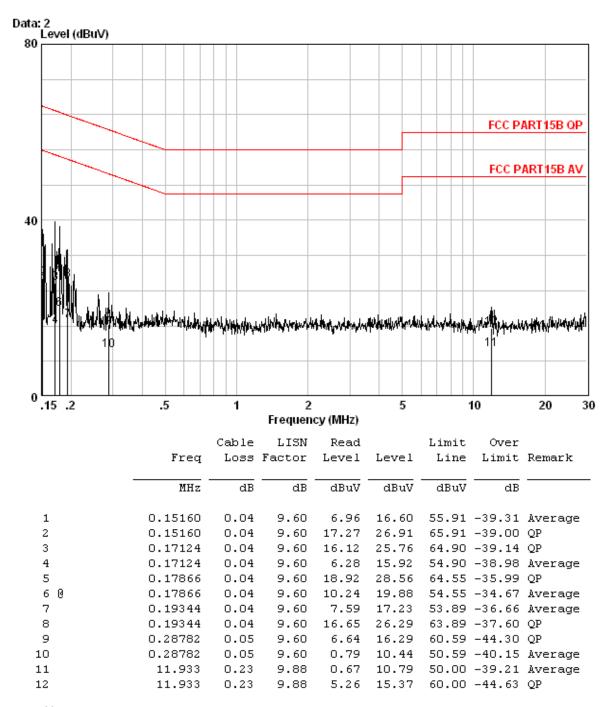
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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Neutral Line:



Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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5.3 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.249 and 15.209					
Test Method:	ANSI C63.10: 2	009				
Test Frequency Range:	30MHz to 25GH	łz				
Test site:	Measurement D	istance: 3m	(Semi-Anecho	ic Chambei	r)	
Receiver setup:					,	
, , , , , , , , , , , , , , , , , , ,	Frequency Detector RBW VBW				Remark	
	30MHz-1GHz Quasi-peak 100KHz 300KHz			Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
	Above Tariz	Peak	1MHz	10Hz	Average Value	
Limit:						
(Field strength of the	Freque	ency	Limit (dBuV		Remark	
fundamental signal)	2400MHz-2483.5MHz		94.0		Average Value	
			114.0 Peak Value			
Limit:	_	1				
(Spurious Emissions)	Freque		Limit (dBuV/m @3m)		Remark	
	30MHz-8	_	40.0		Quasi-peak Value	
	88MHz-2	_	43.5		Quasi-peak Value	
	216MHz-9		46.0		Quasi-peak Value	
	960MHz-	1GHz	54.0		Quasi-peak Value	
	Above 1	GHz	54.0		Average Value	
			74.0		Peak Value	
Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.					
Test mode:	Normal operation mode, AC charge+normal operation mode can was performed on the EUT on above modes, and then found the worst case mode is AC charge+normal operation mode Only the worst case data was displayed.					

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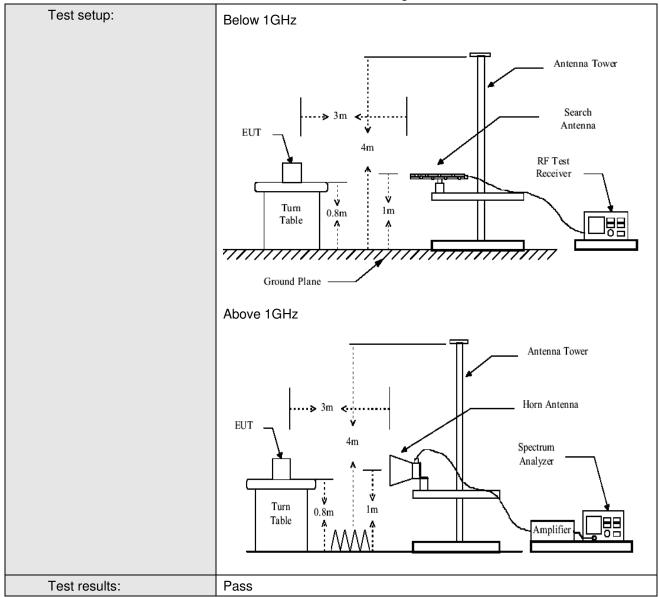
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Test Procedure:	a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was
	rotated 360 degrees to determine the position of the highest radiation.
	 The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	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 measurement.
	d. 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.
	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. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
Test Instruments:	Refer to section 4.7 for details

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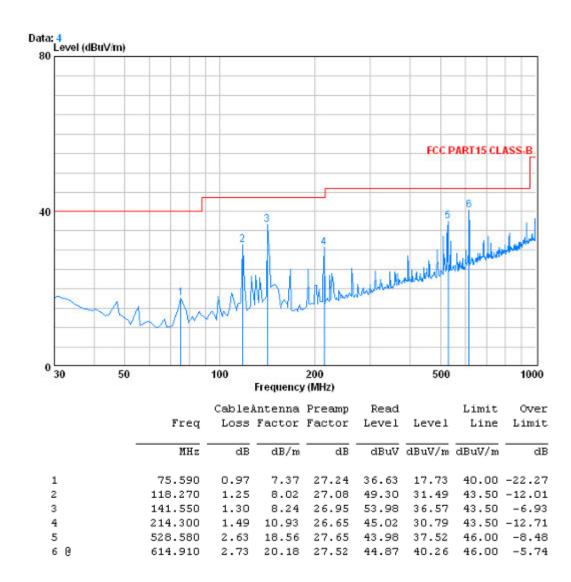


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Vertical:

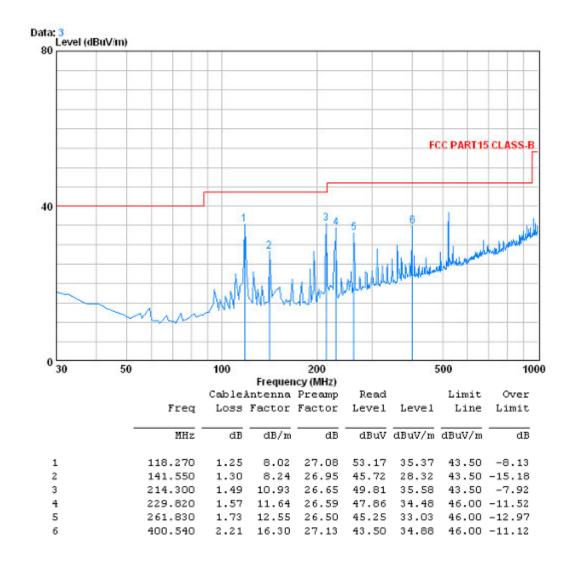


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Horizontal:



Note:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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Measurement Data

5.3.1 Field Strength Of The Fundamental Signal

Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2404.276	6.34	30.03	38.87	88.53	86.03	114.00	-27.97	Horizontal
2404.276	6.34	30.03	38.87	87.26	84.76	114.00	-29.24	Vertical
2438.153	6.40	30.18	38.59	86.23	84.22	114.00	-29.78	Horizontal
2438.153	6.40	30.18	38.59	85.34	83.33	114.00	-30.67	Vertical
2476.228	6.45	30.30	39.72	91.78	88.81	114.00	-25.19	Horizontal
2476.228	6.45	30.30	39.72	86.87	83.90	114.00	-30.10	Vertical

Average value:

riverage value		T -	_			ı		T.
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2404.276	6.25	30.05	38.83	77.98	75.45	94.00	-18.55	Horizontal
2404.276	6.25	30.05	38.83	76.62	74.09	94.00	-19.91	Vertical
2438.153	6.40	30.18	38.59	81.02	79.01	94.00	-14.99	Horizontal
2438.153	6.40	30.18	38.59	80.24	78.23	94.00	-15.77	Vertical
2476.228	6.45	30.30	39.72	86.19	83.22	94.00	-10.78	Horizontal
2476.228	6.45	30.30	39.72	81.18	78.21	94.00	-15.79	Vertical

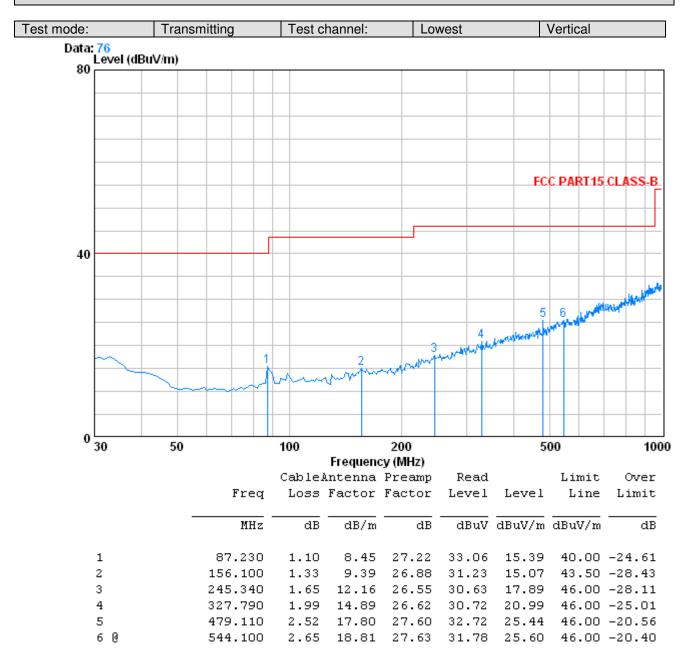
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5.3.2 Spurious Emissions

30MHz~1GHz

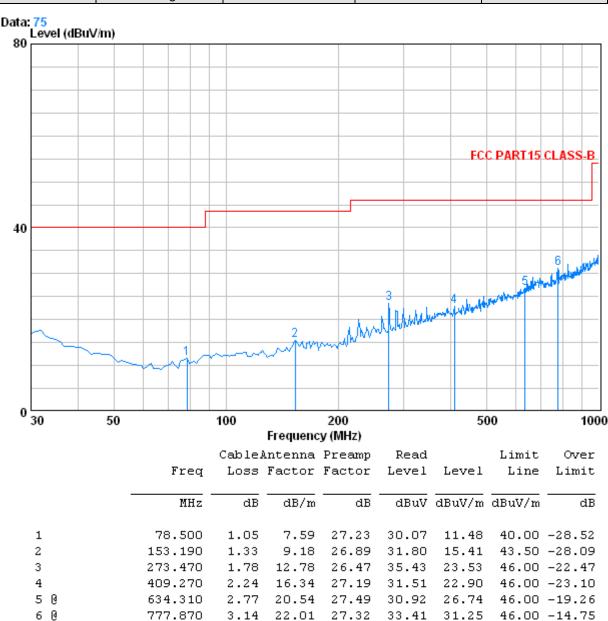


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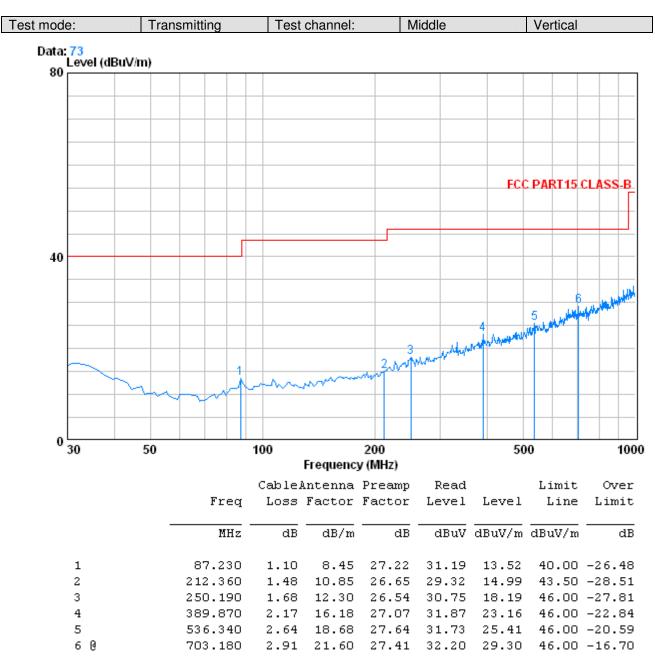
Test mode: Transmitting Test channel: Lowest Horizontal



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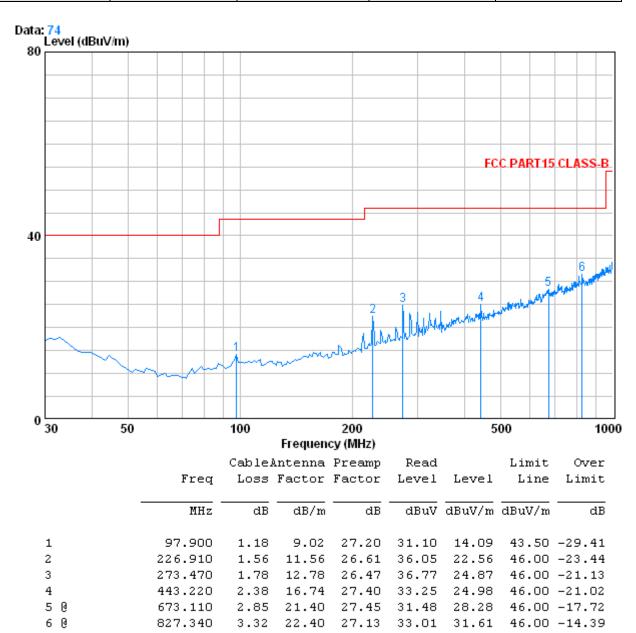


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Test mode:	Transmitting	Test channel:	Middle	Horizontal
Tool Illoud.	Transmitting	1 Cot onamici.	Middle	1 IOI12011tai

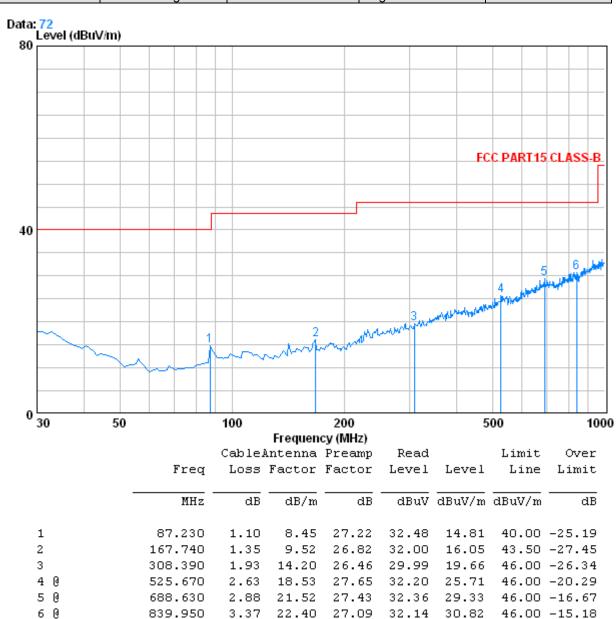


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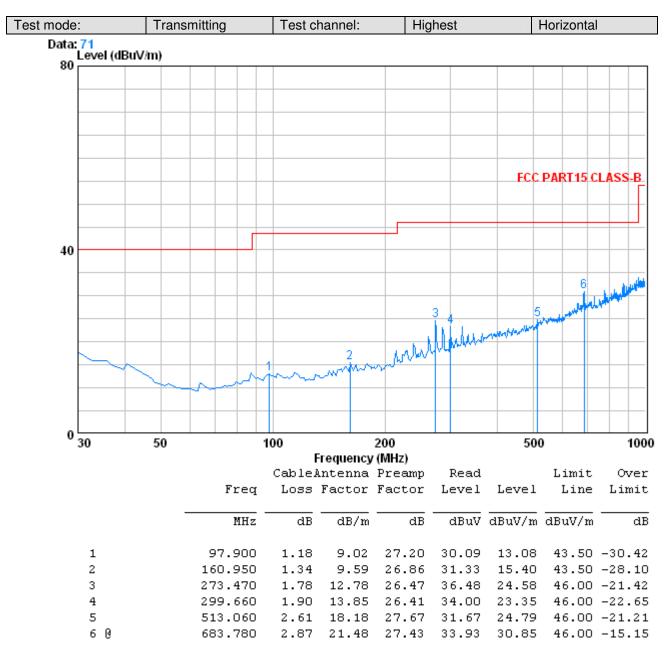
Test mode: Transmitting Test channel: Highest Vertical



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Above 1G	Above 1GHz									
Test mode:	Tra	nsmitting	Test char	nnel: L	owest	Remark:	Pe	ak		
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
2374.750	6.23	29.93	39.19	47.12	44.09	74.00	-29.91	Vertical		
3702.500	7.40	32.78	39.14	48.19	49.23	74.00	-24.77	Vertical		
4807.000	9.36	34.25	41.53	49.03	51.11	74.00	-22.89	Vertical		
7215.750	13.30	37.24	40.88	49.33	58.99	74.00	-15.01	Vertical		
9612.750	13.39	37.99	37.56	45.48	59.30	74.00	-14.70	Vertical		
12021.500	16.45	39.10	39.09	46.47	62.93	74.00	-11.07	Vertical		
2374.750	6.23	29.93	39.19	47.98	44.95	74.00	-29.05	Horizontal		
3702.500	7.40	32.78	39.14	48.76	49.80	74.00	-24.20	Horizontal		
4807.000	9.36	34.25	41.53	48.96	51.04	74.00	-22.96	Horizontal		
7215.750	13.30	37.24	40.88	48.85	58.51	74.00	-15.49	Horizontal		
9612.750	13.39	37.99	37.56	45.10	58.92	74.00	-15.08	Horizontal		
12021.500	16.45	39.10	39.09	46.55	63.01	74.00	-10.99	Horizontal		

Test mode:	Tran	smitting	Test char	nnel: Lo	owest	Remark:	Ave	Average	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
2374.750	6.23	29.93	39.19	35.20	32.17	54.00	-21.83	Vertical	
3702.500	7.40	32.78	39.14	35.23	36.27	54.00	-17.73	Vertical	
4807.000	9.36	34.25	41.53	36.19	38.27	54.00	-15.73	Vertical	
7215.750	13.30	37.24	40.88	35.98	45.64	54.00	-8.36	Vertical	
9612.750	13.39	37.99	37.56	33.03	46.85	54.00	-7.15	Vertical	
12021.500	16.45	39.10	39.09	33.55	50.01	54.00	-3.99	Vertical	
2374.750	6.23	29.93	39.19	35.68	32.65	54.00	-21.35	Horizontal	
3702.500	7.40	32.78	39.14	35.96	37.00	54.00	-17.00	Horizontal	
4807.000	9.36	34.25	41.53	36.80	38.88	54.00	-15.12	Horizontal	
7215.750	13.30	37.24	40.88	36.50	46.16	54.00	-7.84	Horizontal	
9612.750	13.39	37.99	37.56	33.43	47.25	54.00	-6.75	Horizontal	
12021.500	16.45	39.10	39.09	33.79	50.25	54.00	-3.75	Horizontal	

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Test mode:	Tran	smitting	Test char	nnel: M	liddle	Remark:	Pea	Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
1822.500	5.61	28.06	38.99	47.67	42.35	74.00	-31.65	Vertical	
3655.500	7.92	32.72	40.07	48.21	48.78	74.00	-25.22	Vertical	
4877.500	10.36	34.34	39.89	50.08	54.89	74.00	-19.11	Vertical	
7309.750	12.99	37.30	40.50	49.43	59.22	74.00	-14.78	Vertical	
9753.750	13.89	38.03	37.94	46.58	60.56	74.00	-13.44	Vertical	
12186.000	18.03	39.21	39.27	46.86	64.83	74.00	-9.17	Vertical	
1822.500	5.61	28.06	38.99	49.29	43.97	74.00	-30.03	Horizontal	
3655.500	7.92	32.72	40.07	49.32	49.89	74.00	-24.11	Horizontal	
4877.500	10.36	34.34	39.89	51.07	55.88	74.00	-18.12	Horizontal	
7309.750	12.99	37.30	40.50	49.46	59.25	74.00	-14.75	Horizontal	
9753.750	13.89	38.03	37.94	46.07	60.05	74.00	-13.95	Horizontal	
12186.000	18.03	39.21	39.27	47.14	65.11	74.00	-8.89	Horizontal	

Test mode:	Tran	smitting	Test char	nnel:	Middle	Remark:	Av	Average	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
1822.500	5.61	28.06	38.99	33.86	28.54	54.00	-25.46	Vertical	
3655.500	7.92	32.72	40.07	34.84	35.41	54.00	-18.59	Vertical	
4877.500	10.36	34.34	39.89	35.79	40.60	54.00	-13.40	Vertical	
7309.750	12.99	37.30	40.50	35.79	45.58	54.00	-8.42	Vertical	
9753.750	13.89	38.03	37.94	32.64	46.62	54.00	-7.38	Vertical	
12186.000	18.03	39.21	39.27	32.26	50.23	54.00	-3.77	Vertical	
1822.500	5.61	28.06	38.99	33.82	28.50	54.00	-25.50	Horizontal	
3655.500	7.92	32.72	40.07	34.77	35.34	54.00	-18.66	Horizontal	
4877.500	10.36	34.34	39.89	35.75	40.56	54.00	-13.44	Horizontal	
7309.750	12.99	37.30	40.50	35.74	45.53	54.00	-8.47	Horizontal	
9753.750	13.89	38.03	37.94	32.60	46.58	54.00	-7.42	Horizontal	
12186.000	18.03	39.21	39.27	32.23	50.20	54.00	-3.80	Horizontal	

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Test mode:	Tran	smitting	Test char	nnel: F	lighest	Remark:	Pea	Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
1799.000	5.65	27.99	38.66	47.88	42.86	74.00	-31.14	Vertical	
3303.000	6.89	32.30	39.08	48.06	48.17	74.00	-25.83	Vertical	
4948.000	10.51	34.43	40.96	49.68	53.66	74.00	-20.34	Vertical	
7427.250	12.72	37.37	40.01	48.70	58.78	74.00	-15.22	Vertical	
9906.500	14.21	38.07	37.85	46.55	60.98	74.00	-13.02	Vertical	
12385.750	17.55	39.34	39.48	46.92	64.33	74.00	-9.67	Vertical	
1799.000	5.65	27.99	38.66	48.14	43.12	74.00	-30.88	Horizontal	
3303.000	6.89	32.30	39.08	48.60	48.71	74.00	-25.29	Horizontal	
4948.000	10.51	34.43	40.96	49.93	53.91	74.00	-20.09	Horizontal	
7427.250	12.72	37.37	40.01	49.12	59.20	74.00	-14.80	Horizontal	
9906.500	14.21	38.07	37.85	46.94	61.37	74.00	-12.63	Horizontal	
12385.750	17.55	39.34	39.48	47.18	64.59	74.00	-9.41	Horizontal	

Test mode:	Tran	smitting	Test char	nnel: H	ighest	Remark:	Ave	Average	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
1799.000	5.65	27.99	38.66	33.95	28.93	54.00	-25.07	Vertical	
3303.000	6.89	32.30	39.08	34.81	34.92	54.00	-19.08	Vertical	
4948.000	10.51	34.43	40.96	36.11	40.09	54.00	-13.91	Vertical	
7427.250	12.72	37.37	40.01	35.89	45.97	54.00	-8.03	Vertical	
9906.500	14.21	38.07	37.85	32.69	47.12	54.00	-6.88	Vertical	
12385.750	17.55	39.34	39.48	32.68	50.09	54.00	-3.91	Vertical	
1799.000	5.65	27.99	38.66	33.87	28.85	54.00	-25.15	Horizontal	
3303.000	6.89	32.30	39.08	34.76	34.87	54.00	-19.13	Horizontal	
4948.000	10.51	34.43	40.96	36.06	40.04	54.00	-13.96	Horizontal	
7427.250	12.72	37.37	40.01	35.87	45.95	54.00	-8.05	Horizontal	
9906.500	14.21	38.07	37.85	32.63	47.06	54.00	-6.94	Horizontal	
12385.750	17.55	39.34	39.48	32.65	50.06	54.00	-3.94	Horizontal	

Remark: The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

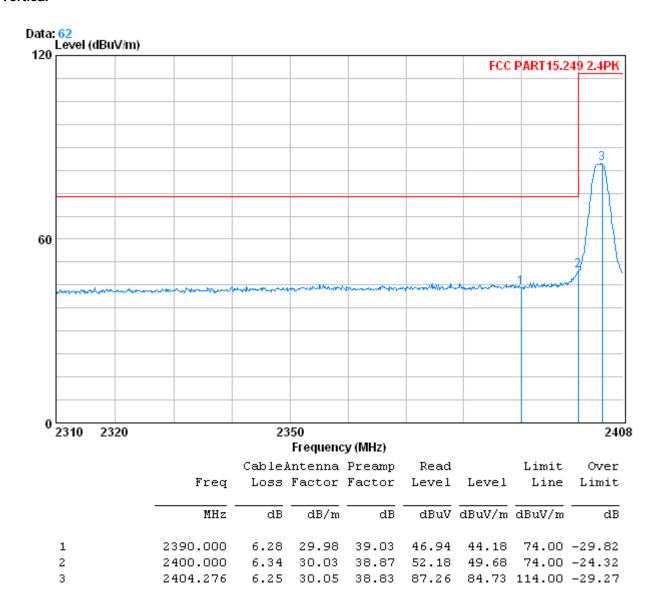
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5.3.3 Band e	dge (Radiated	Emission)			
Test mode: Transmitting		Test channel:	Lowest	Remark:	Peak

Vertical

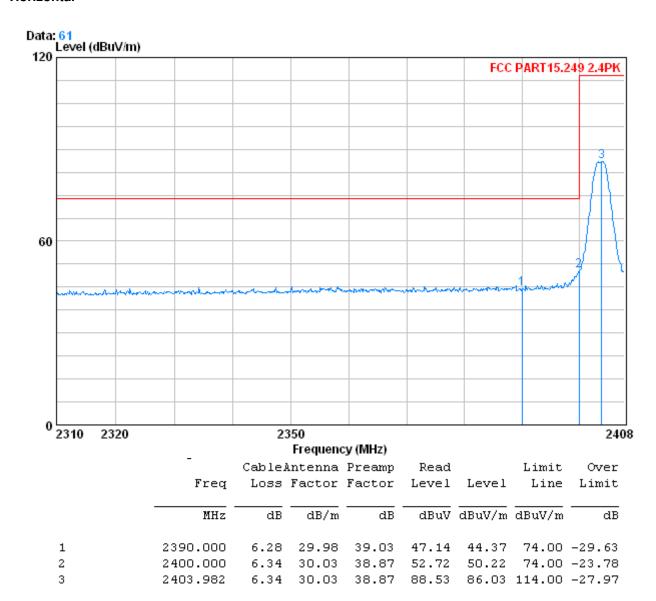


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Horizontal



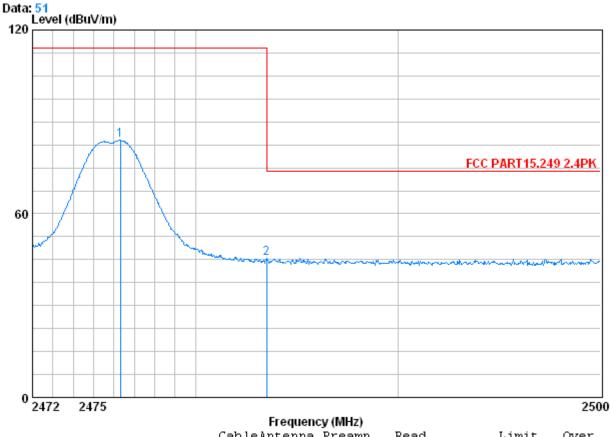
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

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Test mode: Transmitting Test channel: Highest Remark: Peak
--

Vertical



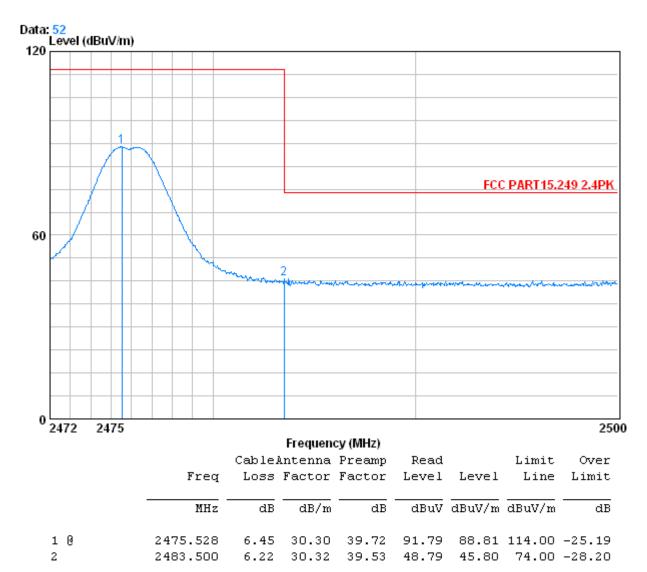
		Cable	Frequenc Antenna		Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 2	2476.312 2483.500			39.72 39.53				

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Horizontal



Remark:

As shown in this section, the peak field strength of any emission shall not exceed the maximum permitted average limits. So, only the peak measurements were shown in the report.

1. The EUT was tested at 3m in field chamber.

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5.3.4 20dB Bandwidth	
Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2009
Limit:	Operation Frequency range 2400MHz-2483.5MHz
Test Procedure:	According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.
	2. Set the EUT to proper test channel.
	3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points.
	4. Read 20dB bandwidth.
Test setup:	
	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
Test Instruments:	Refer to section 4.7 for details
Test results:	Pass

Measurement Data

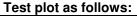
moded official bata		
Test channel	20dB bandwidth (MHz)	Results
Lowest	2.520	Pass
Middle	2.556	Pass
Highest	2.592	Pass

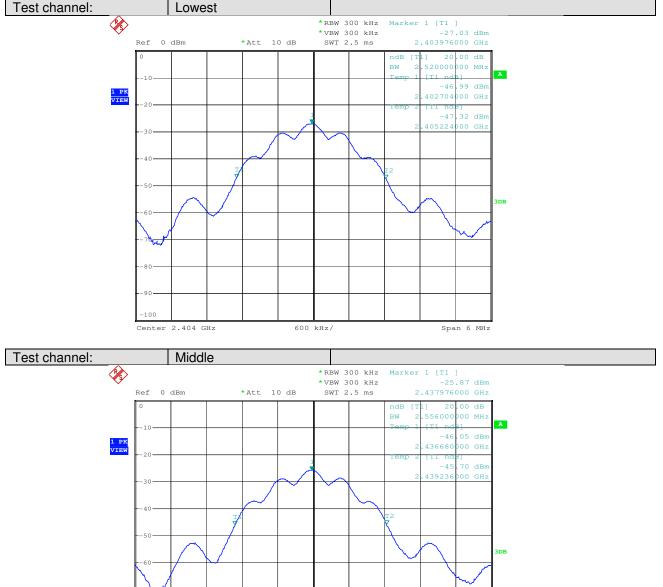
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Span 6 MHz





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600 kHz/

Center 2.438 GHz

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