



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

Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
Email: ee.shenzhen@sgs.com

Report No.: SZEM120500256101
Page: 1 of 102

FCC REPORT

Application No: SZEM1205002561IT
Applicant: ARCHOS SA
Manufacturer: ARCHOS SA
Product Name: Home Tablet
Model No.(EUT): AC97CA
FCC ID: SOVAC97CA
Standards: FCC CFR Title 47 Part 15C (2011)
Date of Receipt: 2012-05-17
Date of Test: 2012-05-21 to 2012-06-14
Date of Issue: 2012-07-05

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.

"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."



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	FCC CFR Title 47 Part 15C Section 15.203/15.247 (c)	ANSI C63.10 (2009)	PASS
AC Power Line Conducted Emission	FCC CFR Title 47 Part 15C Section 15.207	ANSI C63.10(2009)	PASS
Conducted Peak Output Power	FCC CFR Title 47 Part 15C Section 15.247 (b)(3)	ANSI C63.10(2009)	PASS
6dB Occupied Bandwidth	FCC CFR Title 47 Part 15C Section 15.247 (a)(2)	ANSI C63.10(2009)	PASS
Power Spectral Density	FCC CFR Title 47 Part 15C Section 15.247 (e)	ANSI C63.10(2009)	PASS
Band-edge for RF Conducted Emissions	FCC CFR Title 47 Part 15C Section 15.247(d)	ANSI C63.10(2009)	PASS
RF Conducted Spurious Emissions	FCC CFR Title 47 Part 15C Section 15.247(d)	ANSI C63.10(2009)	PASS
Radiated Spurious Emissions	FCC CFR Title 47 Part 15C Section 15.205/15.209	ANSI C63.10(2009)	PASS
Band Edge (Radiated Emission)	FCC CFR Title 47 Part 15C Section 15.205/15.209	ANSI C63.10 (2009)	PASS



3 Contents

	Page
1 COVER PAGE.....	1
2 TEST SUMMARY	2
3 CONTENTS.....	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF EUT	4
4.3 TEST ENVIRONMENT AND MODE	6
4.4 DESCRIPTION OF SUPPORT UNITS	6
4.5 TEST LOCATION	6
4.6 TEST FACILITY	7
4.7 DEVIATION FROM STANDARDS	7
4.8 ABNORMALITIES FROM STANDARD CONDITIONS	7
4.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	7
4.10 TEST INSTRUMENTS LIST.....	8
5 TEST RESULTS AND MEASUREMENT DATA.....	10
5.1 ANTENNA REQUIREMENT	10
5.2 CONDUCTED EMISSIONS	11
5.3 CONDUCTED PEAK OUTPUT POWER	15
5.4 6dB OCCUPY BANDWIDTH	30
5.5 POWER SPECTRAL DENSITY	38
5.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS	46
5.7 RF CONDUCTED SPURIOUS EMISSIONS	51
5.8 RADIATED SPURIOUS EMISSIONS.....	58
5.8.1 Radiated emission below 1GHz.....	61
5.8.2 Transmitter emission above 1GHz.....	63
5.9 BAND EDGE (RADIATED EMISSION).....	69-102

4 General Information

4.1 Client Information

Applicant:	ARCHOS SA
Address of Applicant:	12,Rue Ampere 91430 Igny France
Manufacturer:	ARCHOS SA
Address of Manufacturer:	12,Rue Ampere 91430 Igny France

4.2 General Description of EUT

Product Name:	Home Tablet	
Model No.:	AC97CA	
Trade Mark:	ARCHOS	
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels	
Channel Separation:	5MHz	
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)	
Sample Type:	Portable production	
Test Power Grade:	12dBm (manufacturer declare)	
Test Software of EUT:	Wi-Fi Android Test (manufacturer declare)	
Antenna Type and Gain:	Type: Integral Gain: 0dBi	
Power Supply:	Adapter:	AC ADAPTOR MODEL: HNO090200X INPUT: AC 100-240V-50/60Hz 0.6A MAX OUTPUT: 9.0V $\pm$ 2.0A
Test Voltage:	120V~60Hz	
DC Cable:	120 cm	
Earphone Cable:	85 cm	



Operation Frequency each of 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 Frequency each of channel(802.11n HT40)							
Channel		Frequency		Channel		Frequency	
1		2422MHz		4		2437MHz	
2		2427MHz		5		2442MHz	
3		2432MHz		6		2447MHz	

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:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz



4.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	1006 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

4.4 Description of Support Units

The EUT has been tested independent unit.

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.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 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, Full-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, G-416, T-1153 and C-2383 respectively.
- **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 No.: 556682.
- **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.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



4.10 Test Instruments List

RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2013-06-10
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2013-05-17
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2012-10-29
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2012-10-29
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2012-10-29
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2013-05-17
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2012-10-26
9	Coaxial cable	SGS	N/A	SEL0027	2013-05-29
10	Coaxial cable	SGS	N/A	SEL0189	2013-05-29
11	Coaxial cable	SGS	N/A	SEL0121	2013-05-29
12	Coaxial cable	SGS	N/A	SEL0178	2013-05-29
13	Band filter	Amindeon	82346	SEL0094	2013-05-17
14	Barometer	ChangChun	DYM3	SEL0088	2013-05-17
15	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2012-10-28



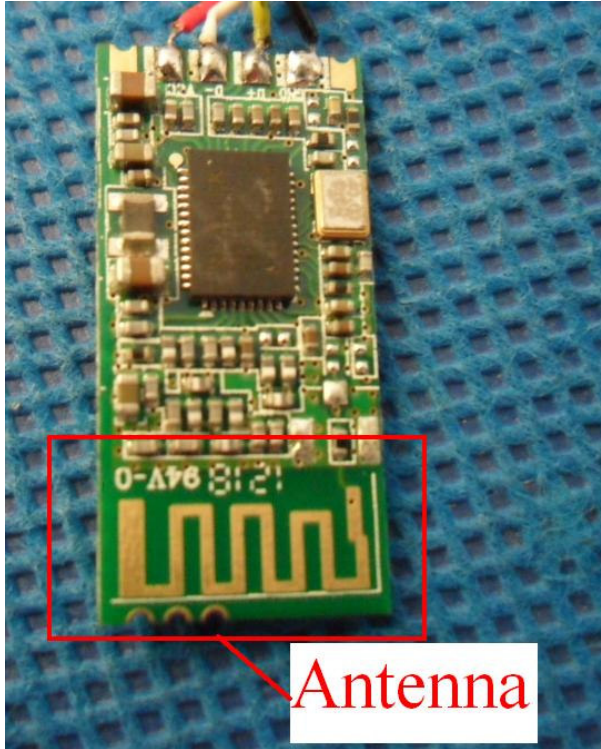
Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2013-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2012-10-23
3	Two-Line V-Network	ETS-LINDGREN	3816/2	SEL0021	2013-05-17
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2013-05-17
5	Coaxial Cable	SGS	N/A	SEL0024	2013-05-29

RF conducted					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	2012-10-23
2	Coaxial cable	SGS	N/A	SEL0028	2013-05-29

General used equipment					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0102 to SEL0103	2012-10-27
2	Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	SEL0101	2012-10-27
3	Barometer	ChangChun	DYM3	SEL0088	2013-05-17

5 Test results and Measurement Data

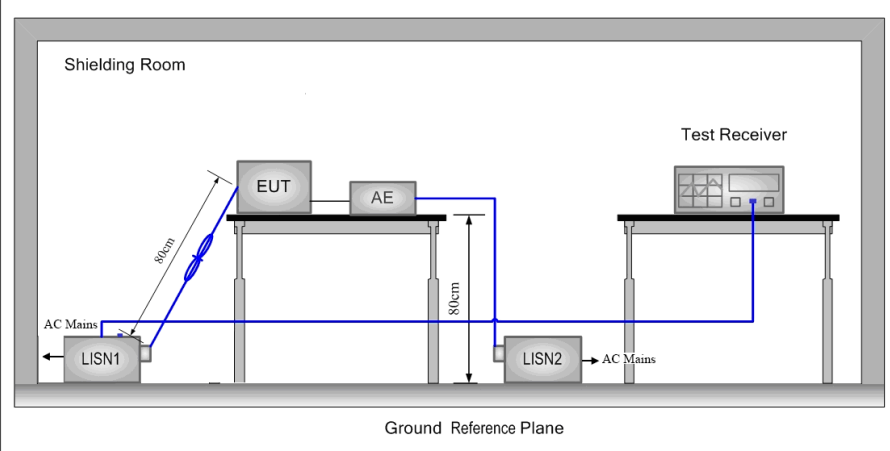
5.1 Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(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.	
EUT Antenna:	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.	



5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10: 2009		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		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 logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) 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:	
Test Mode:	Transmitting mode
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

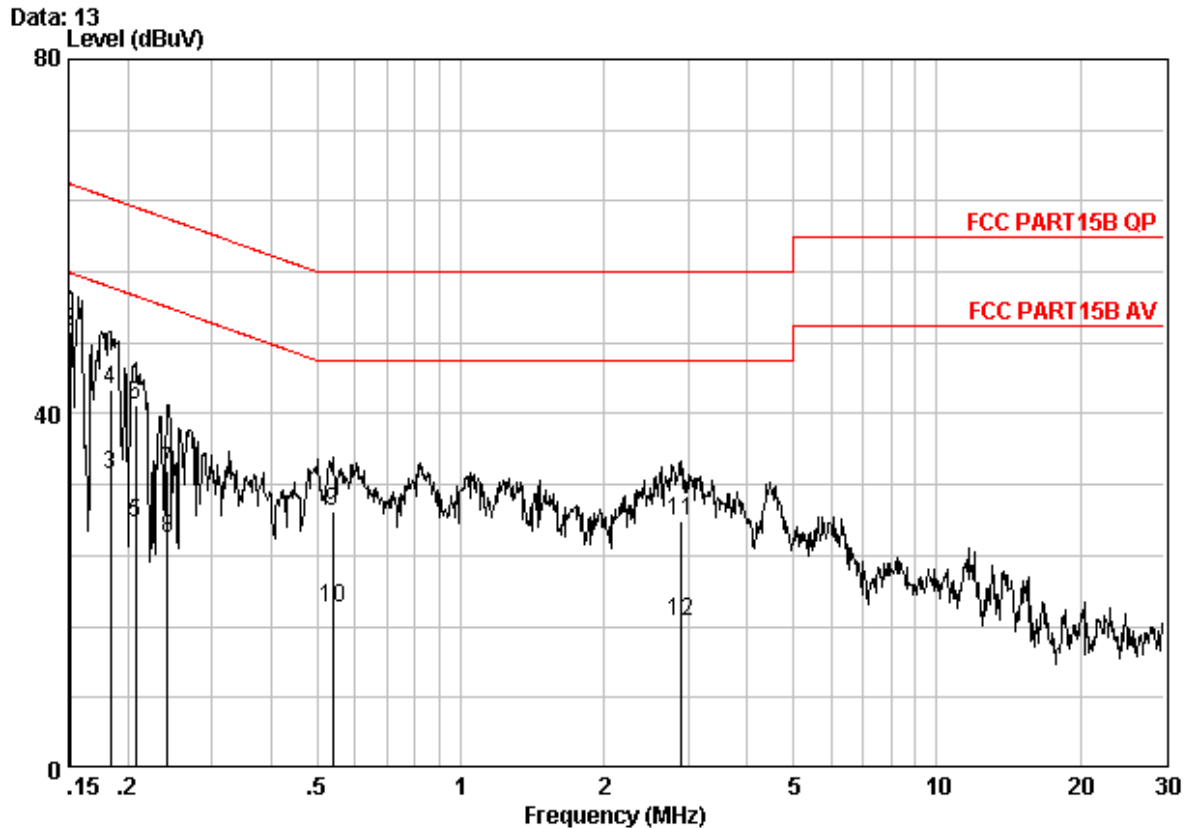
Measurement Data

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.



Live Line:



Site : Shielding Room
Condition : FCC PART15B QP CE-20101216 LINE
Job No. : 2560IT
Mode : Transmitting

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.15080	0.04	9.60	24.16	33.80	55.96	-22.16	Average
2 @	0.15080	0.04	9.60	39.57	49.21	65.96	-16.75	QP
3 @	0.18346	0.04	9.60	23.57	33.21	54.33	-21.11	Average
4 @	0.18346	0.04	9.60	33.15	42.79	64.33	-21.54	QP
5	0.20723	0.04	9.60	18.12	27.76	53.32	-25.55	Average
6 @	0.20723	0.04	9.60	31.34	40.98	63.32	-22.33	QP
7	0.24165	0.04	9.60	23.85	33.49	62.04	-28.54	QP
8	0.24165	0.04	9.60	16.36	26.00	52.04	-26.04	Average
9	0.53782	0.06	9.62	19.31	28.99	56.00	-27.01	QP
10	0.53782	0.06	9.62	8.34	18.02	46.00	-27.98	Average
11	2.900	0.14	9.74	17.99	27.87	56.00	-28.13	QP
12	2.900	0.14	9.74	6.79	16.67	46.00	-29.33	Average

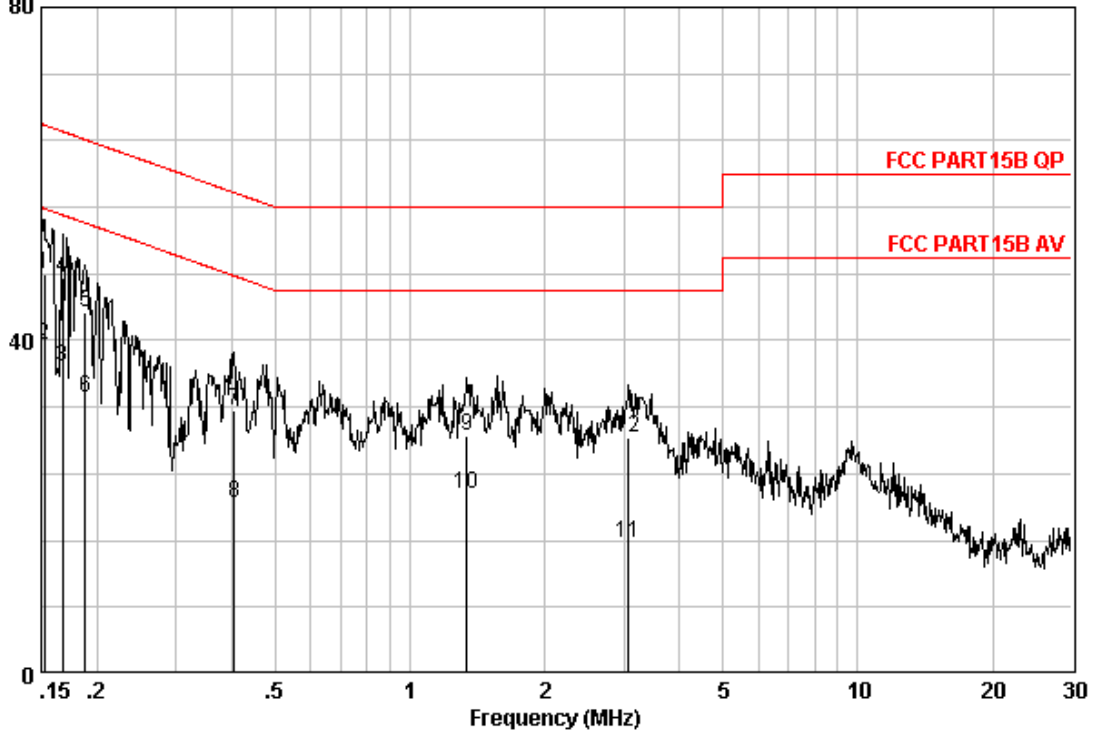
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. 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."



Neutral Line:

Data: 14

Level (dBuV)



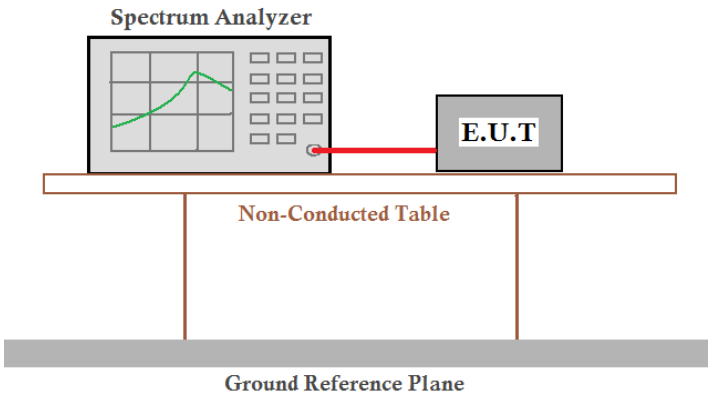
Site : Shielding Room
Condition : FCC PART15B QP CE-20101216 NEUTRAL
Job No. : 2560IT
Mode : Transmitting

		Cable	LISN	Read	Limit	Over	
	Freq	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.15240	0.04	9.60	38.34	47.98	65.87	-17.89 QP
2	0.15240	0.04	9.60	29.89	39.53	55.87	-16.34 Average
3	0.16765	0.04	9.60	27.13	36.77	55.08	-18.31 Average
4	0.16765	0.04	9.60	37.97	47.61	65.08	-17.47 QP
5	0.18838	0.04	9.60	33.77	43.41	64.11	-20.70 QP
6	0.18838	0.04	9.60	23.40	33.04	54.11	-21.07 Average
7	0.40400	0.06	9.60	21.98	31.64	57.77	-26.13 QP
8	0.40400	0.06	9.60	10.89	20.55	47.77	-27.22 Average
9	1.338	0.10	9.70	18.75	28.55	56.00	-27.45 QP
10	1.338	0.10	9.70	11.71	21.51	46.00	-24.49 Average
11	3.074	0.14	9.75	5.87	15.76	46.00	-30.24 Average
12	3.074	0.14	9.75	18.38	28.27	56.00	-27.73 QP

Notes:

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

5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2009
Test Setup:	 <i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Test Instruments:	Refer to section 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g ; 65Mbps of rate is the worst case of 802.11n(HT20) ; 135Mbps of rate is the worst case of 802.11n(HT40)
Limit:	30dBm
Test Results:	Pass



Pre-scan under all rate at lowest channel 1								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
PK	10.98	11.15	11.42	11.65				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
PK	5.34	5.96	6.34	6.86	7.24	7.52	7.85	7.97
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
PK	5.51	5.78	6.11	6.39	6.84	7.01	7.26	7.55
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
PK	6.28	6.58	6.94	7.34	7.67	7.96	8.14	8.40

Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g ; 65Mbps of rate is the worst case of 802.11n (HT20); 135Mbps of rate is the worst case of 802.11n (HT40).

**Measurement Data**

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	11.65	30.00	Pass
Middle	10.84	30.00	Pass
Highest	10.19	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	7.97	30.00	Pass
Middle	7.77	30.00	Pass
Highest	7.55	30.00	Pass
802.11n(HT20)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	7.55	30.00	Pass
Middle	7.31	30.00	Pass
Highest	6.79	30.00	Pass
802.11n(HT40)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.40	30.00	Pass
Middle	7.23	30.00	Pass
Highest	7.08	30.00	Pass



"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."



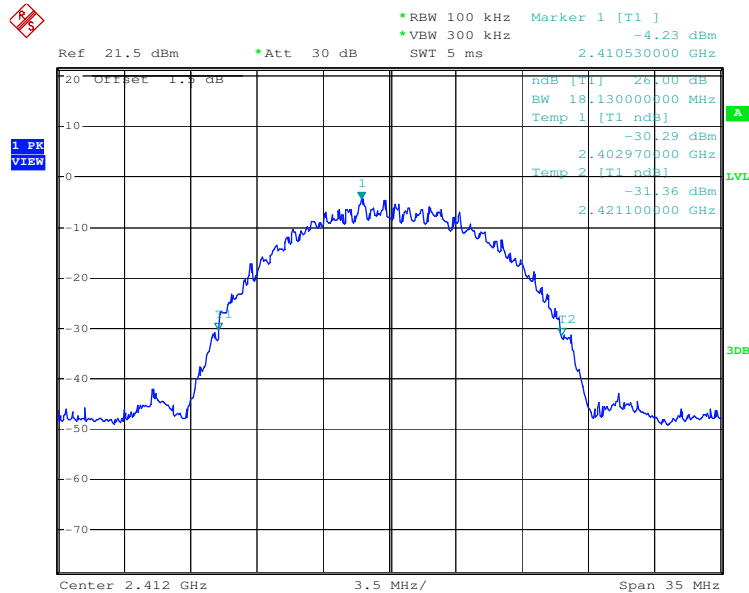
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

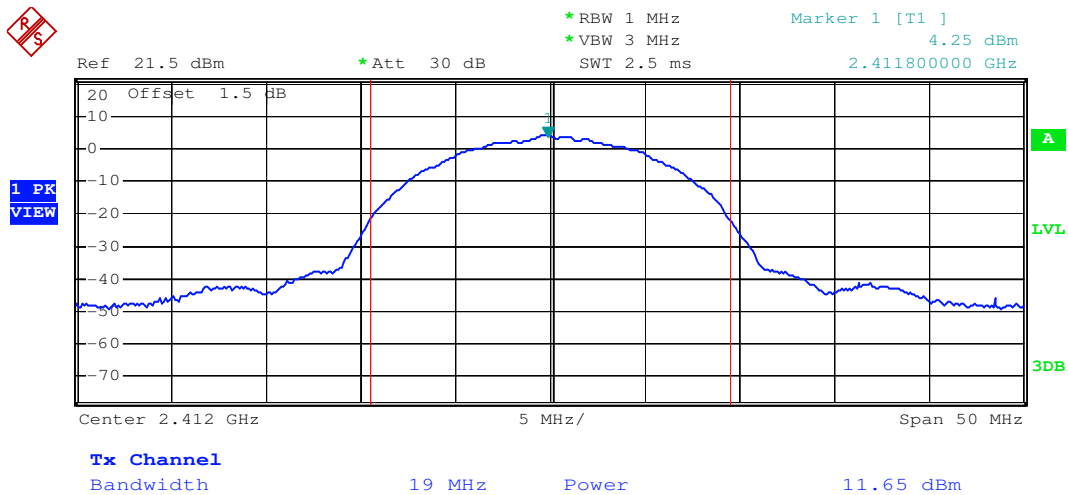
Page: 18 of 102

Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest	-26 bandwidth
------------	---------	---------------	--------	---------------



Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------



"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."

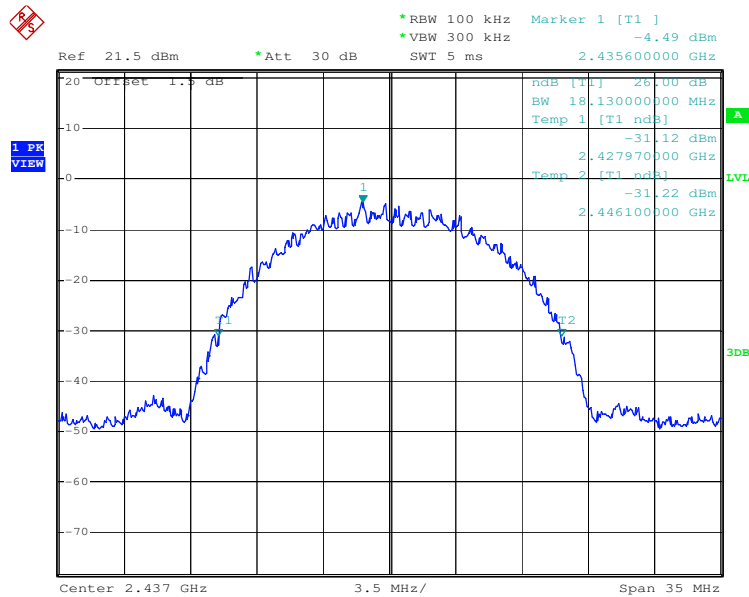


SGS-CSTC Standards Technical Services Ltd.

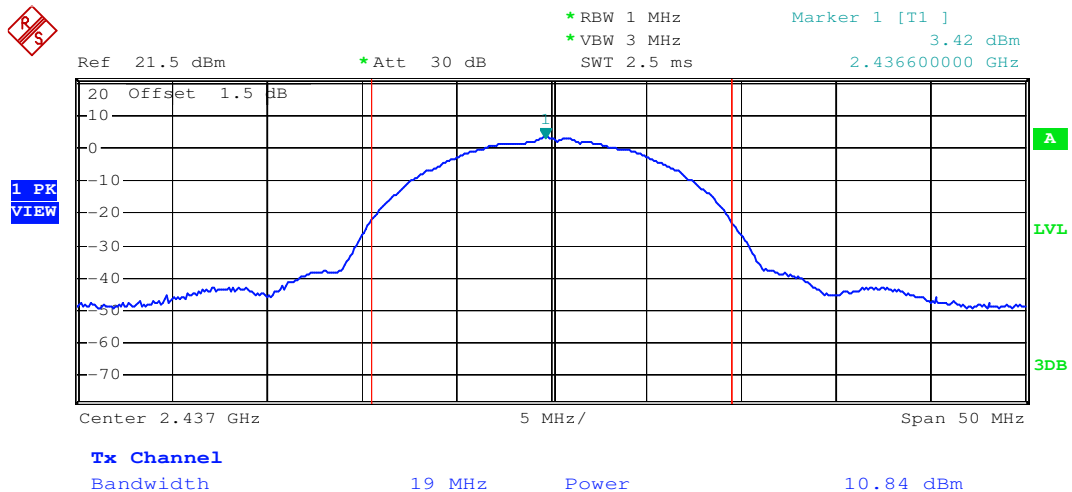
Report No.: SZEM120500256101

Page: 19 of 102

Test mode:	802.11b	Test channel:	Middle	-26 bandwidth
------------	---------	---------------	--------	---------------



Test mode:	802.11b	Test channel:	Middle
------------	---------	---------------	--------



"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."

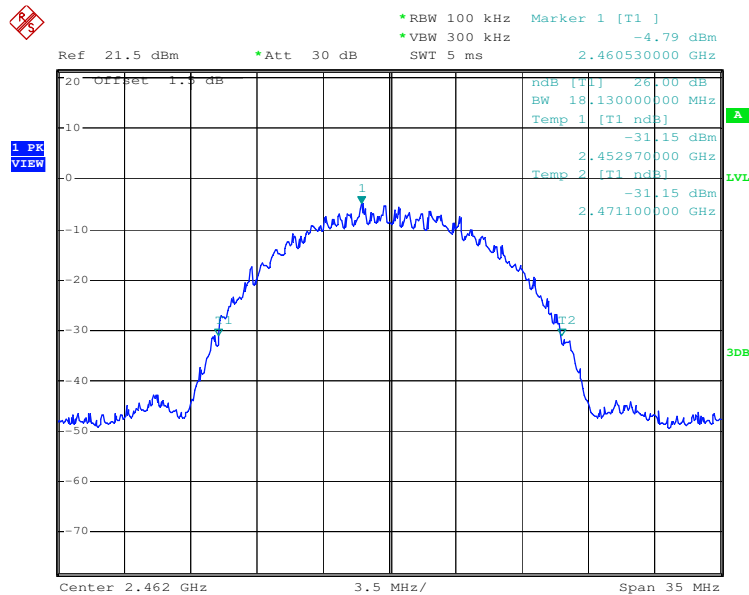


SGS-CSTC Standards Technical Services Ltd.

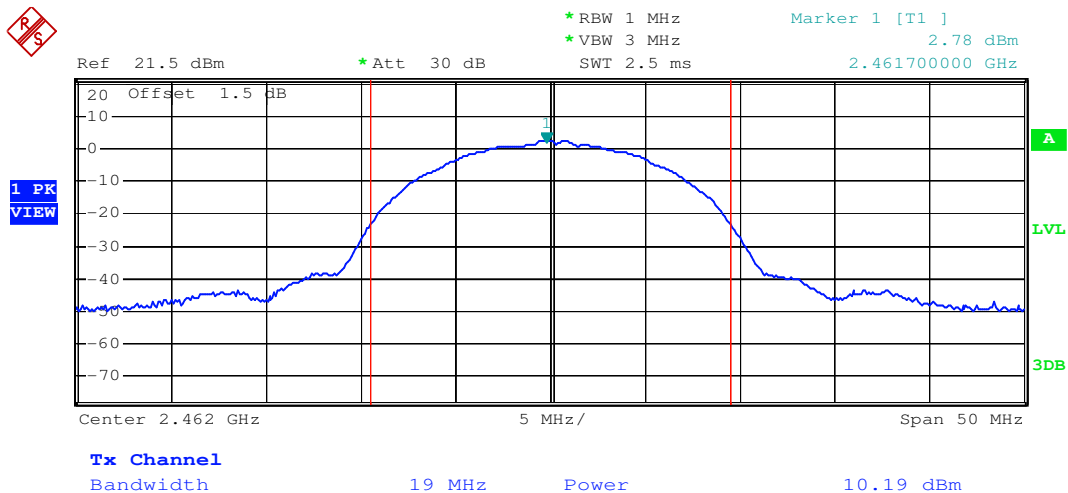
Report No.: SZEM120500256101

Page: 20 of 102

Test mode:	802.11b	Test channel:	Highest	-26 bandwidth
------------	---------	---------------	---------	---------------



Test mode:	802.11b	Test channel:	Highest
------------	---------	---------------	---------



"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."

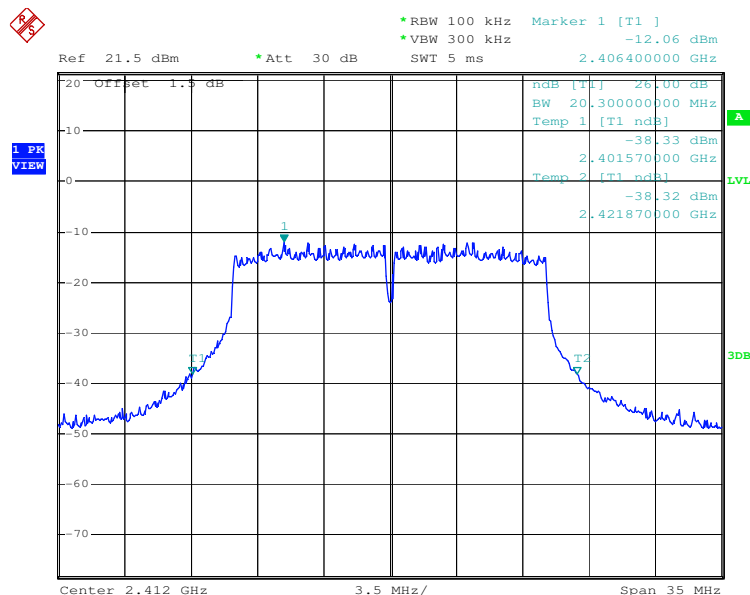


SGS-CSTC Standards Technical Services Ltd.

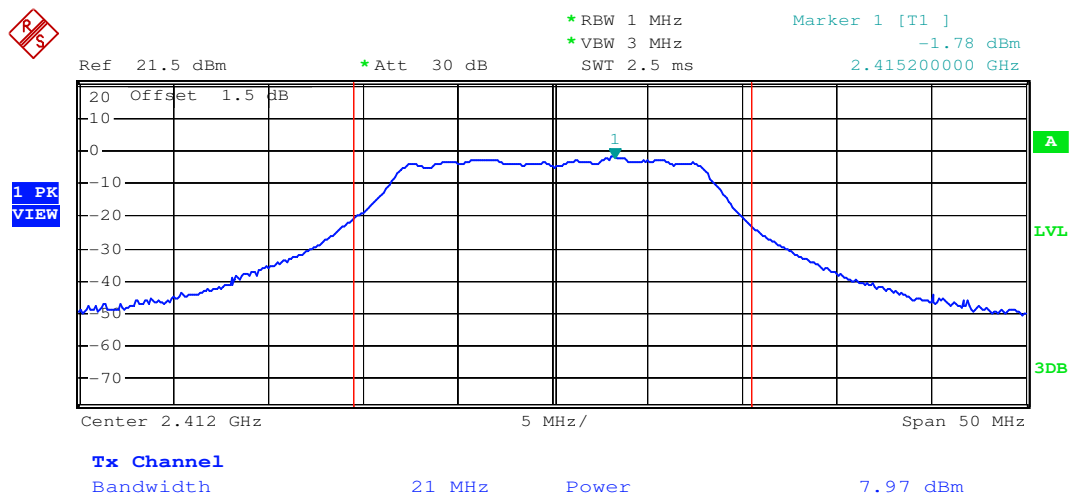
Report No.: SZEM120500256101

Page: 21 of 102

Test mode:	802.11g	Test channel:	Lowest	-26 bandwidth
------------	---------	---------------	--------	---------------



Test mode:	802.11g	Test channel:	Lowest
------------	---------	---------------	--------



"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."

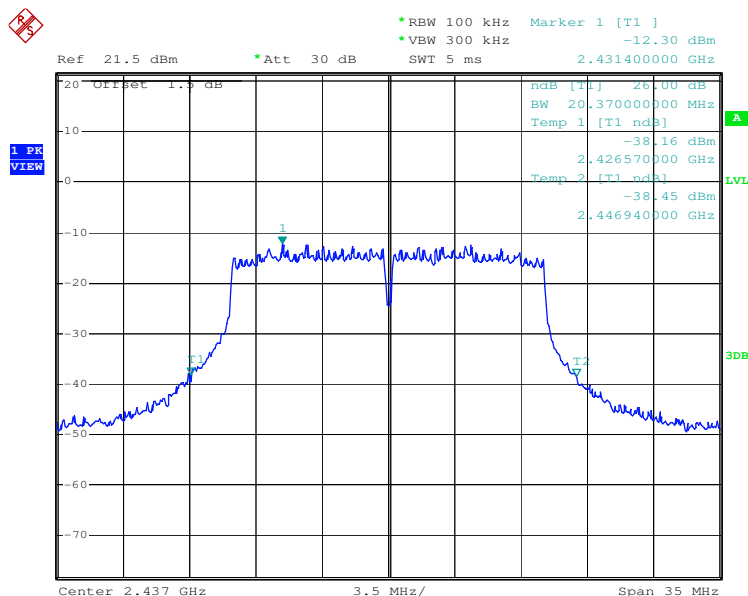


SGS-CSTC Standards Technical Services Ltd.

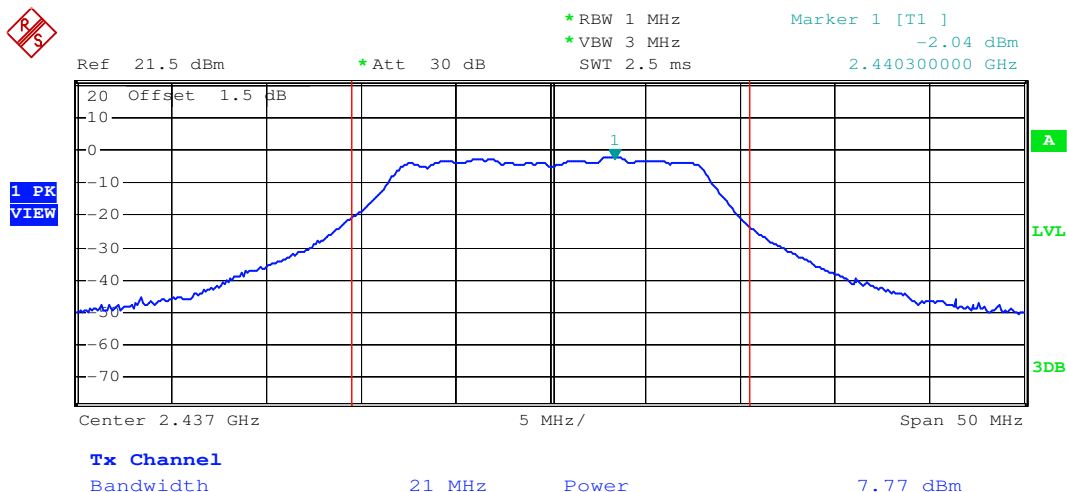
Report No.: SZEM120500256101

Page: 22 of 102

Test mode:	802.11g	Test channel:	Middle	-26 bandwidth
------------	---------	---------------	--------	---------------



Test mode:	802.11g	Test channel:	Middle
------------	---------	---------------	--------



"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."

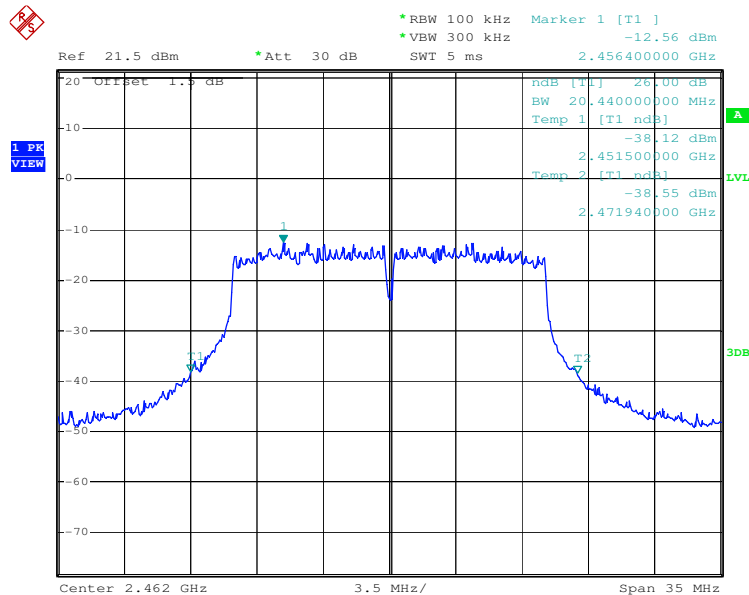


SGS-CSTC Standards Technical Services Ltd.

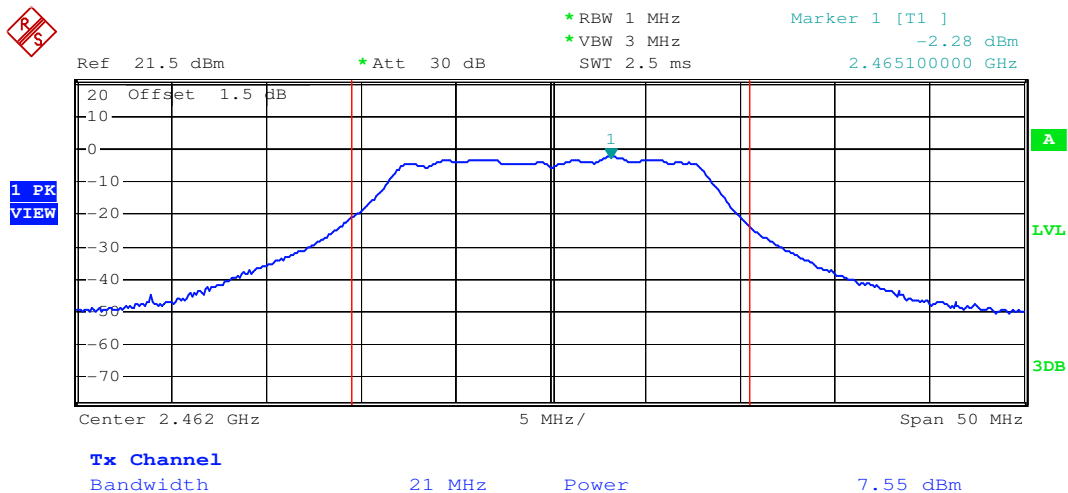
Report No.: SZEM120500256101

Page: 23 of 102

Test mode:	802.11g	Test channel:	Highest	-26 bandwidth
------------	---------	---------------	---------	---------------



Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------



"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."

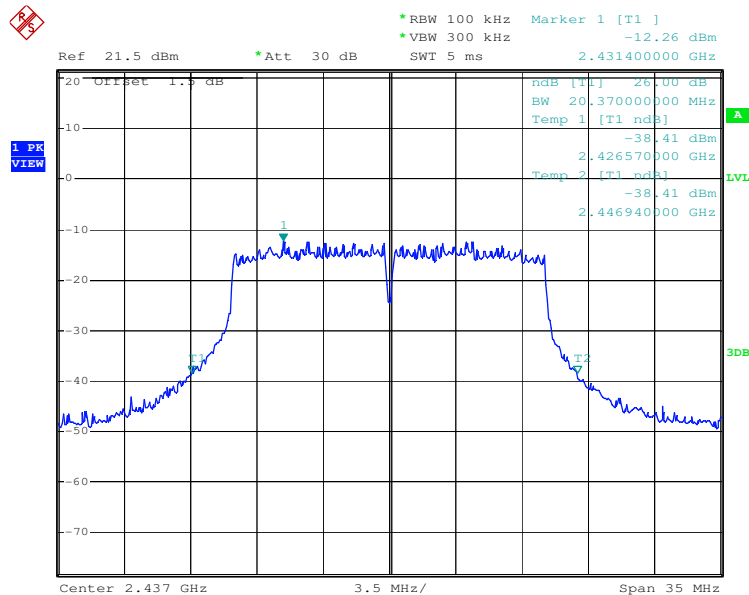


SGS-CSTC Standards Technical Services Ltd.

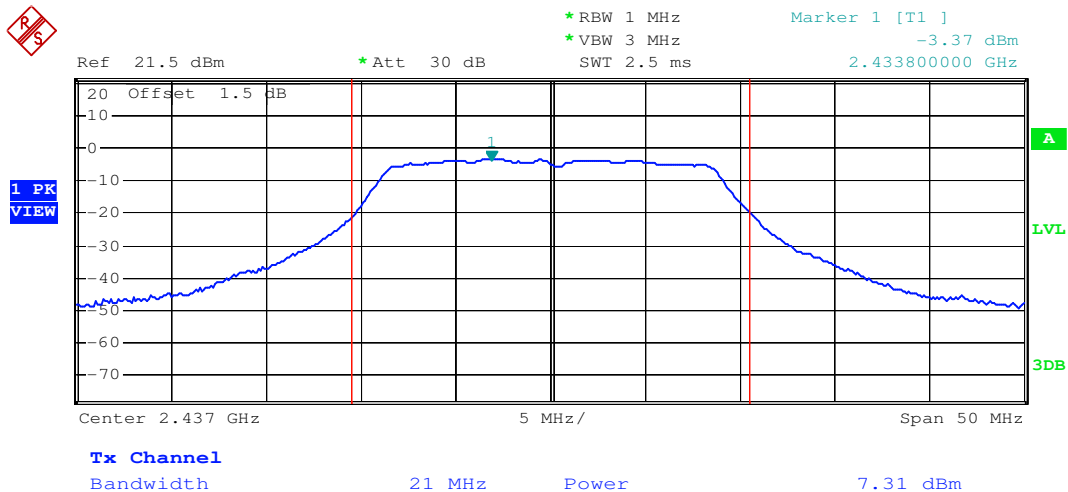
Report No.: SZEM120500256101

Page: 25 of 102

Test mode:	802.11n(HT20)	Test channel:	Middle	-26 bandwidth
------------	---------------	---------------	--------	---------------



Test mode:	802.11n(HT20)	Test channel:	Middle
------------	---------------	---------------	--------



"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."

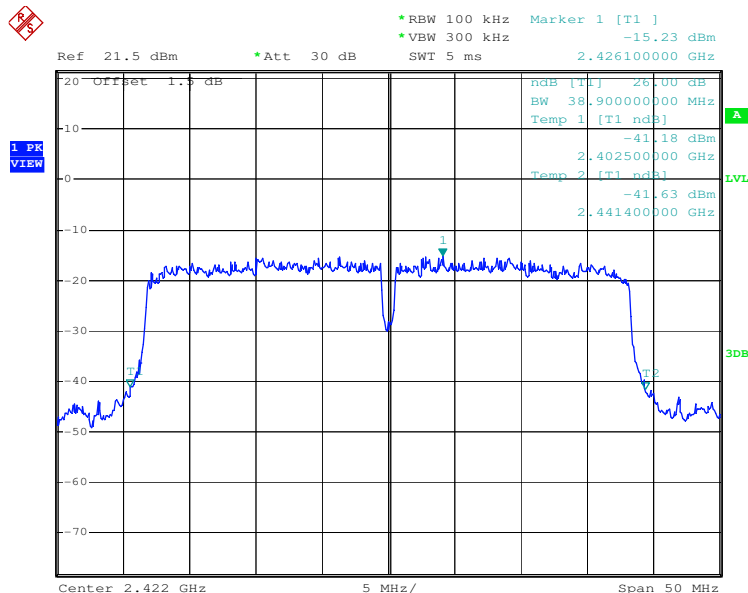


SGS-CSTC Standards Technical Services Ltd.

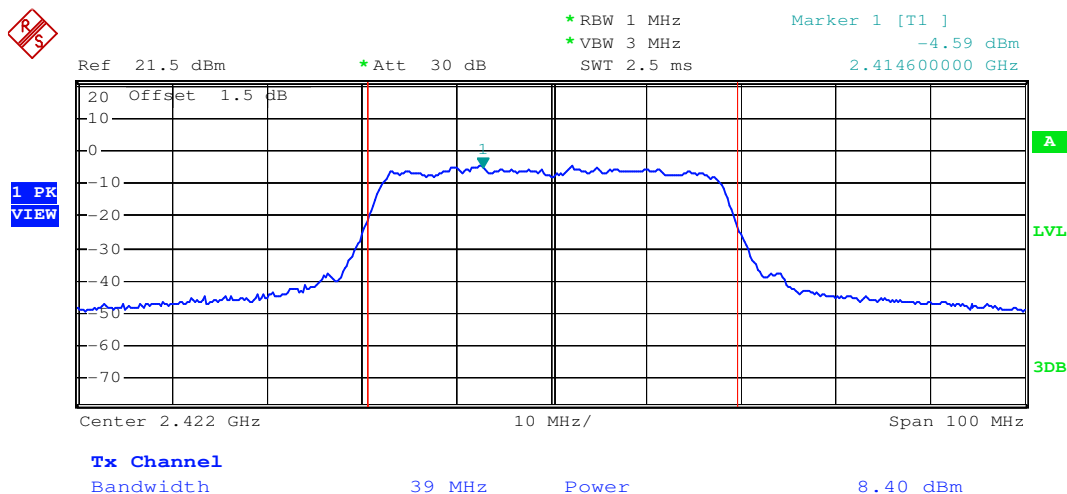
Report No.: SZEM120500256101

Page: 27 of 102

Test mode:	802.11n(HT40)	Test channel:	Lowest	-26 bandwidth
------------	---------------	---------------	--------	---------------



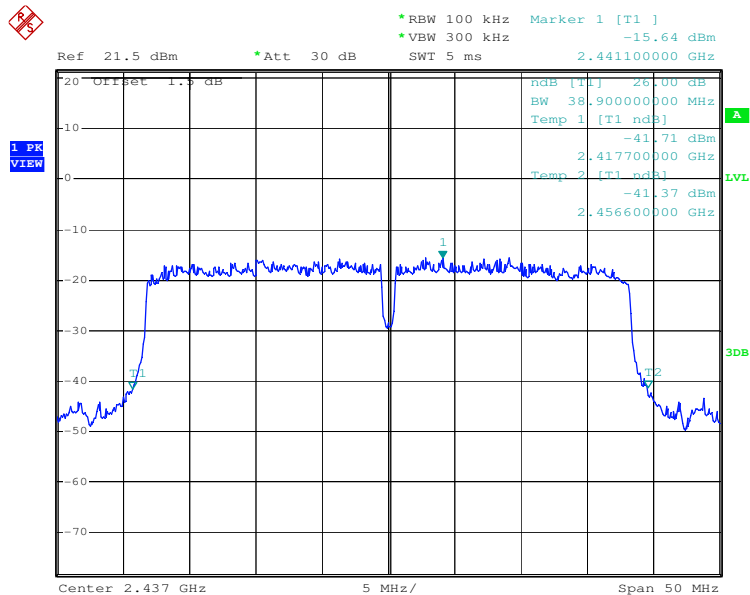
Test mode:	802.11n(HT40)	Test channel:	Lowest
------------	---------------	---------------	--------



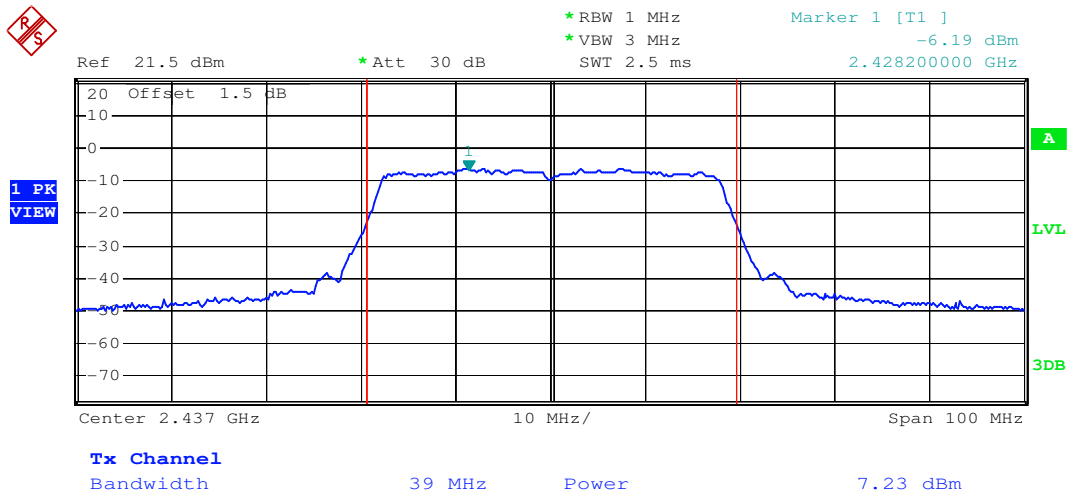
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. 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."



Test mode:	802.11n(HT40)	Test channel:	Middle	-26 bandwidth
------------	---------------	---------------	--------	---------------



Test mode:	802.11n(HT40)	Test channel:	Middle
------------	---------------	---------------	--------



"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."

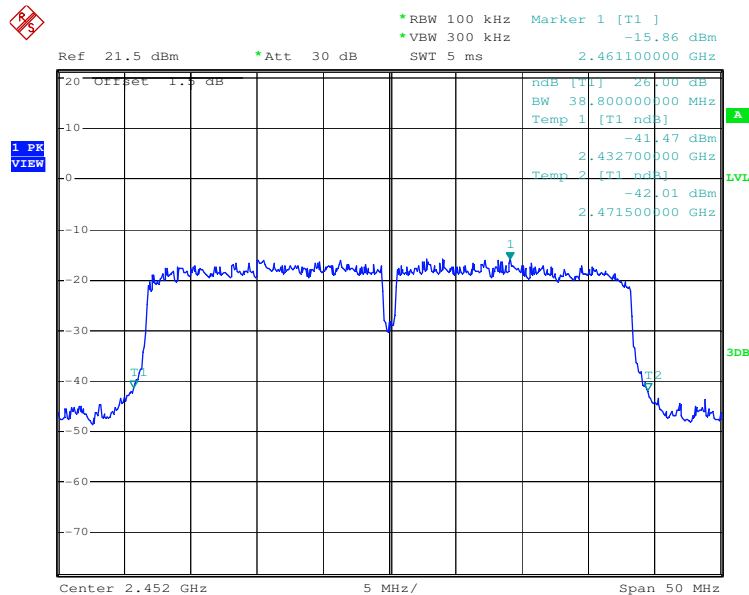


SGS-CSTC Standards Technical Services Ltd.

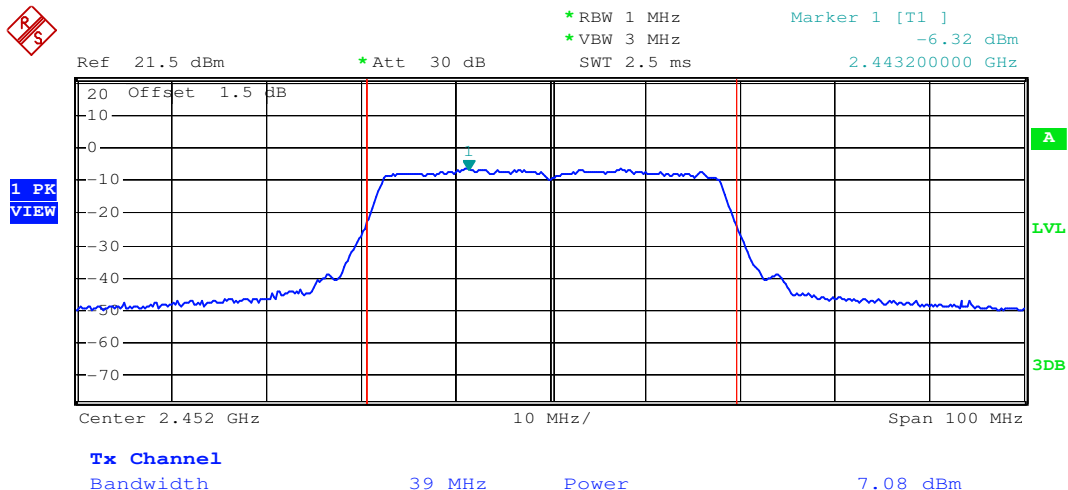
Report No.: SZEM120500256101

Page: 29 of 102

Test mode:	802.11n(HT40)	Test channel:	Highest	-26 bandwidth
------------	---------------	---------------	---------	---------------

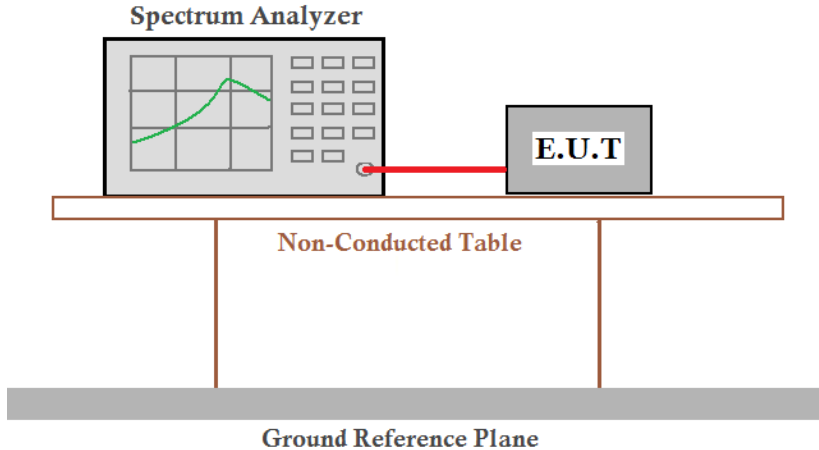


Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------



"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."

5.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2009
Test Setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.
Instruments Used:	Refer to section 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g ; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps of rate is the worst case of 802.11n(HT40)
Limit:	≥ 500 kHz
Test Results:	Pass

**Measurement Data**

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	10.64	≥500	Pass
Middle	10.50	≥500	Pass
Highest	10.29	≥500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.64	≥500	Pass
Middle	16.65	≥500	Pass
Highest	16.66	≥500	Pass
802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.90	≥500	Pass
Middle	17.92	≥500	Pass
Highest	17.923	≥500	Pass
802.11n(HT40) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	36.60	≥500	Pass
Middle	36.60	≥500	Pass
Highest	36.60	≥500	Pass

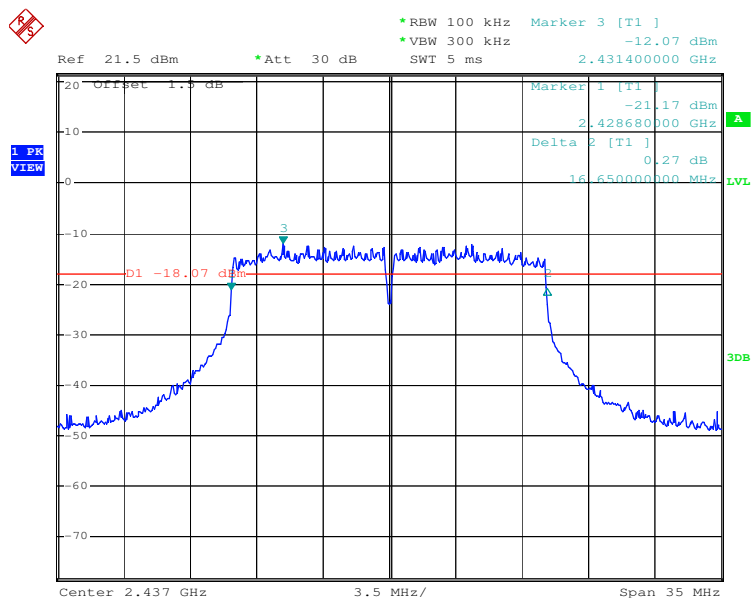


SGS-CSTC Standards Technical Services Ltd.

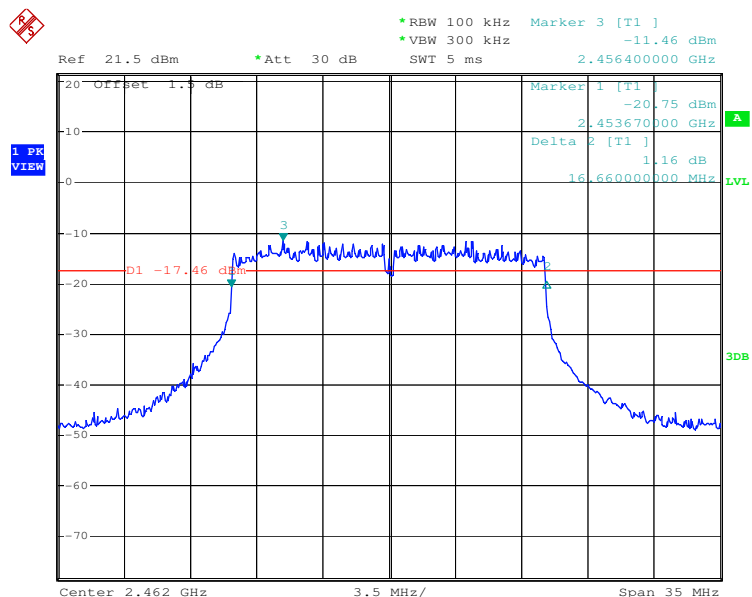
Report No.: SZEM120500256101

Page: 34 of 102

Test mode:	802.11g	Test channel:	Middle
------------	---------	---------------	--------



Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------



"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."

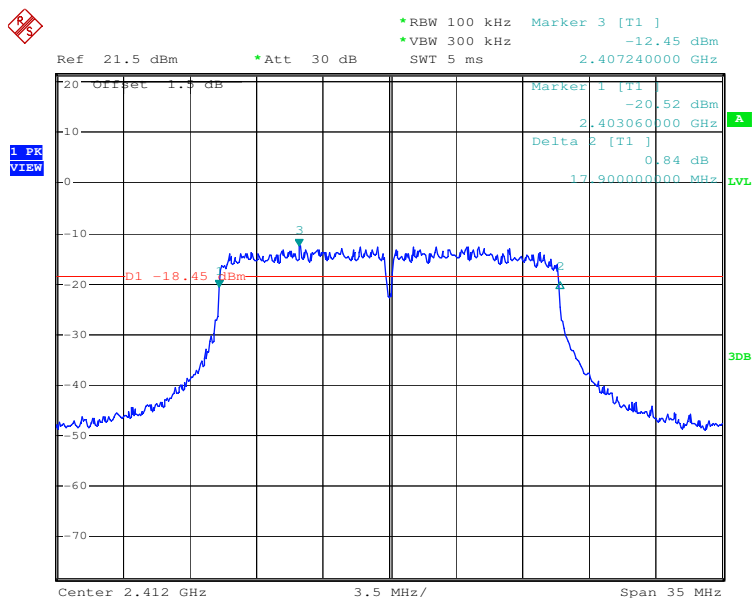


SGS-CSTC Standards Technical Services Ltd.

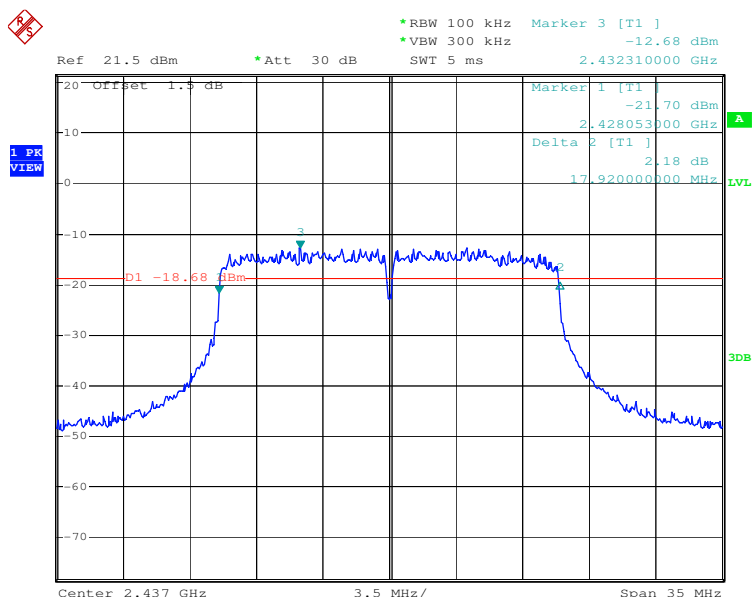
Report No.: SZEM120500256101

Page: 35 of 102

Test mode:	802.11n(HT20)	Test channel:	Lowest
------------	---------------	---------------	--------



Test mode:	802.11n(HT20)	Test channel:	Middle
------------	---------------	---------------	--------



"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."

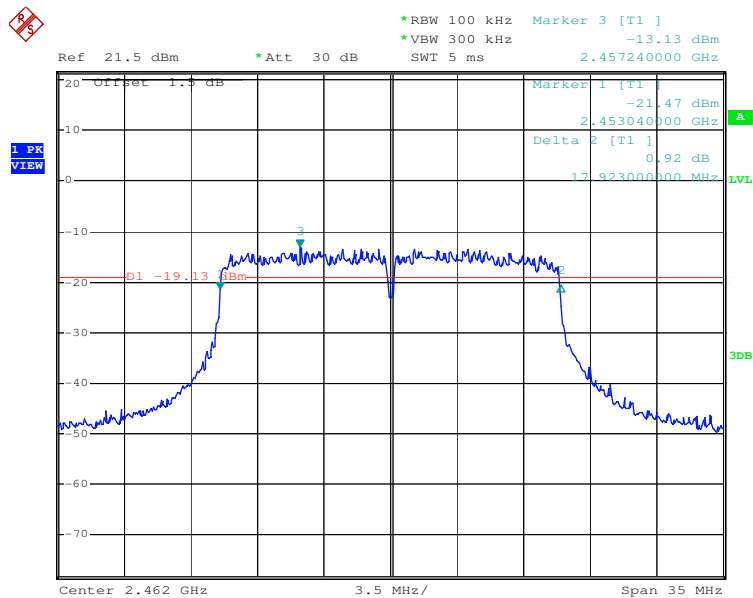


SGS-CSTC Standards Technical Services Ltd.

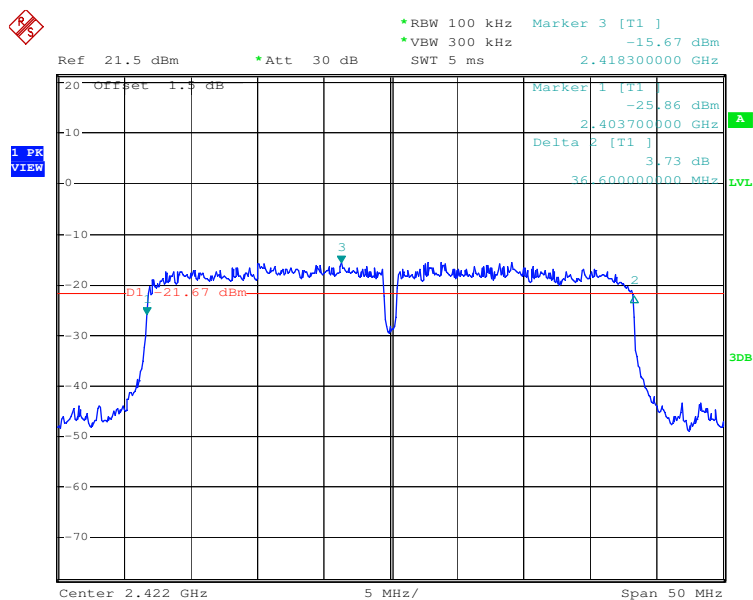
Report No.: SZEM120500256101

Page: 36 of 102

Test mode:	802.11n(HT20)	Test channel:	Highest
------------	---------------	---------------	---------



Test mode:	802.11n(HT40)	Test channel:	Lowest
------------	---------------	---------------	--------



"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."

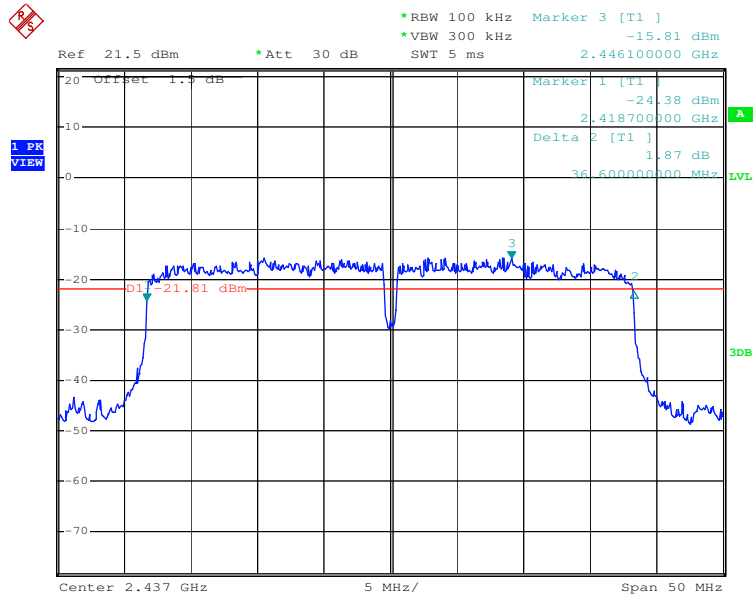


SGS-CSTC Standards Technical Services Ltd.

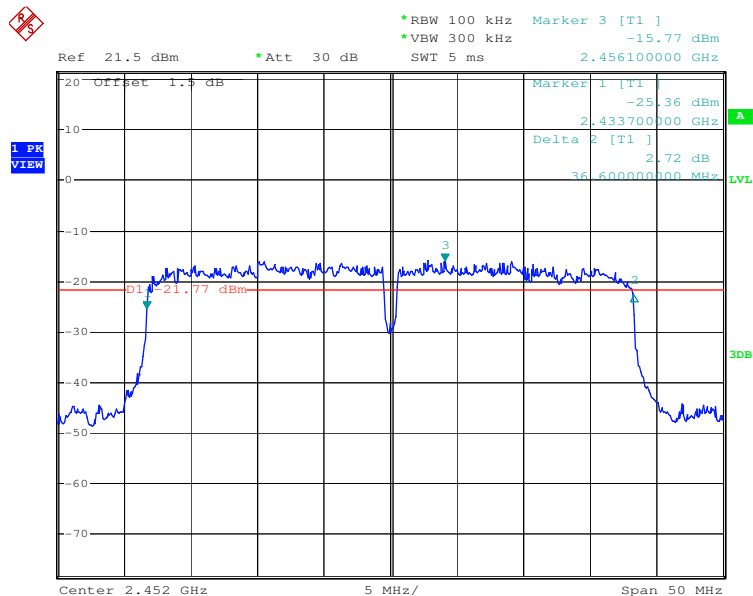
Report No.: SZEM120500256101

Page: 37 of 102

Test mode:	802.11n(HT40)	Test channel:	Middle
------------	---------------	---------------	--------

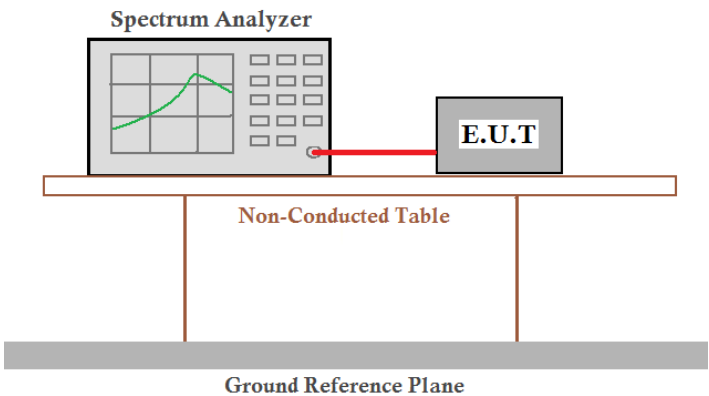


Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------



"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."

5.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2009
Test Setup:	 <i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Test Instruments:	Refer to section 4.10 for details
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g ; 65Mbps of rate is the worst case of 802.11n (HT20); 135Mbps of rate is the worst case of 802.11n (HT40)
Limit:	≤8.00dBm
Test Results:	Pass

**Measurement Data**

802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-20.57	≤8.00	Pass
Middle	-22.21	≤8.00	Pass
Highest	-21.45	≤8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-27.19	≤8.00	Pass
Middle	-26.29	≤8.00	Pass
Highest	-27.73	≤8.00	Pass
802.11n(HT20) mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-29.03	≤8.00	Pass
Middle	-29.16	≤8.00	Pass
Highest	-29.57	≤8.00	Pass
802.11n(HT40) mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-29.19	≤8.00	Pass
Middle	-31.12	≤8.00	Pass
Highest	-30.76	≤8.00	Pass



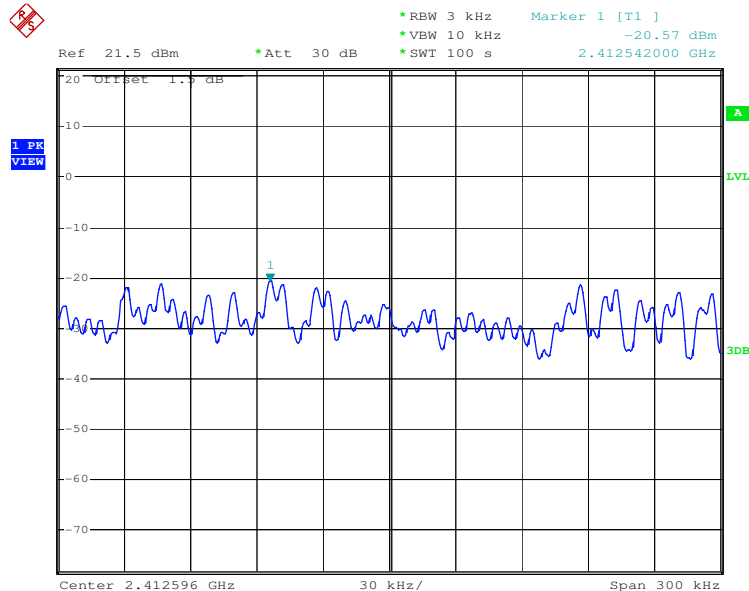
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

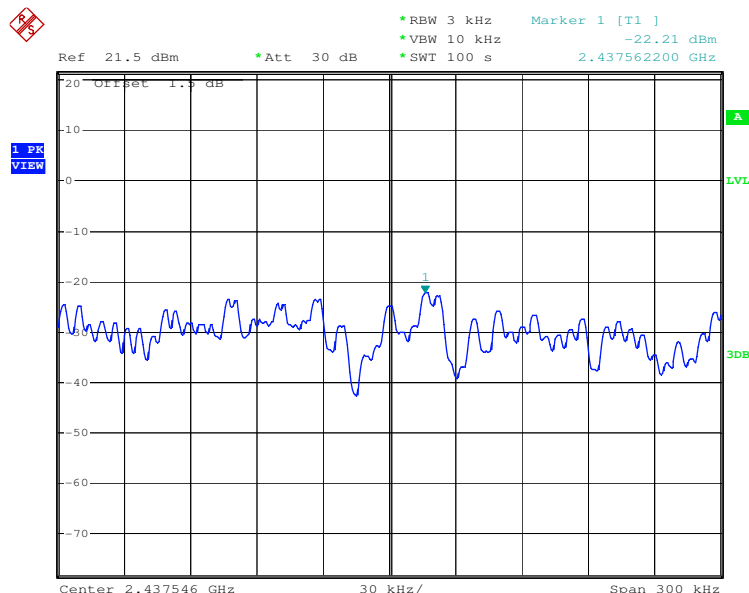
Page: 40 of 102

Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------



Test mode:	802.11b	Test channel:	Middle
------------	---------	---------------	--------



"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."

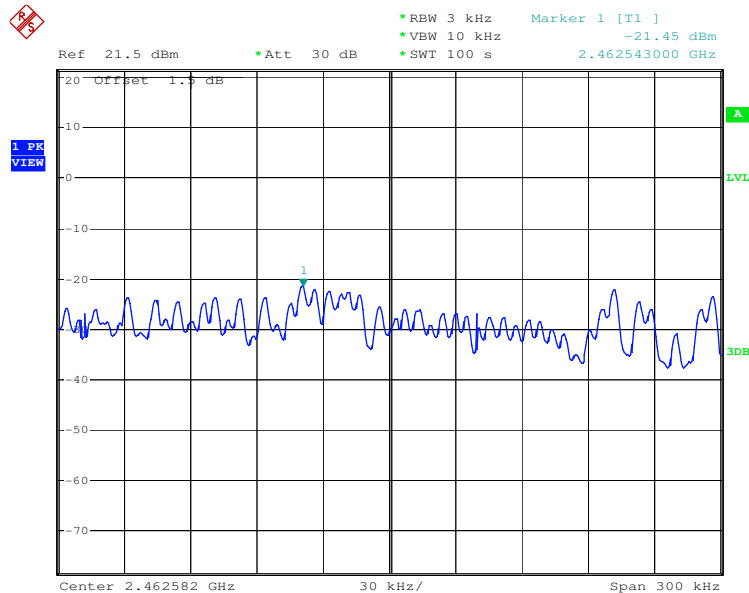


SGS-CSTC Standards Technical Services Ltd.

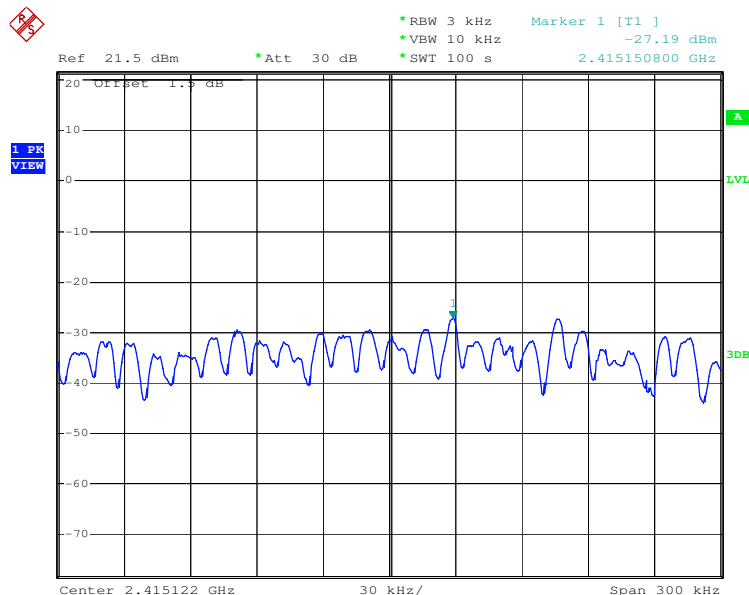
Report No.: SZEM120500256101

Page: 41 of 102

Test mode:	802.11b	Test channel:	Highest
------------	---------	---------------	---------



Test mode:	802.11g	Test channel:	Lowest
------------	---------	---------------	--------



"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."

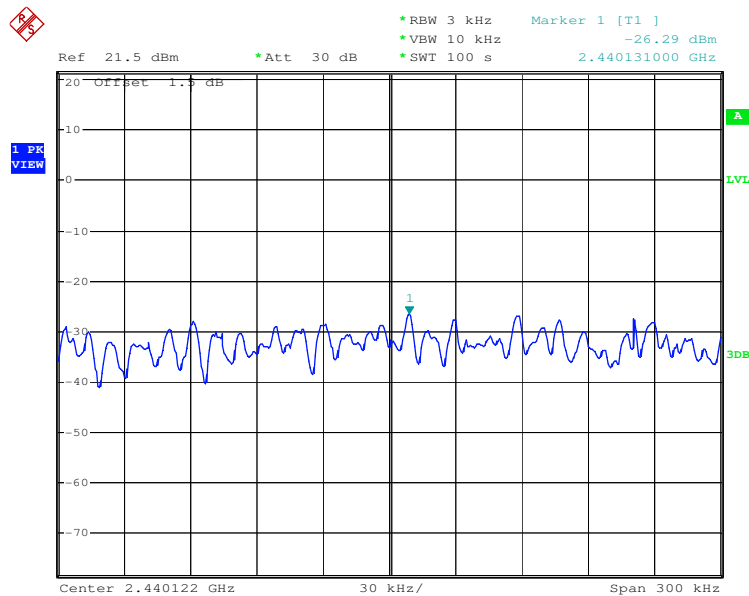


SGS-CSTC Standards Technical Services Ltd.

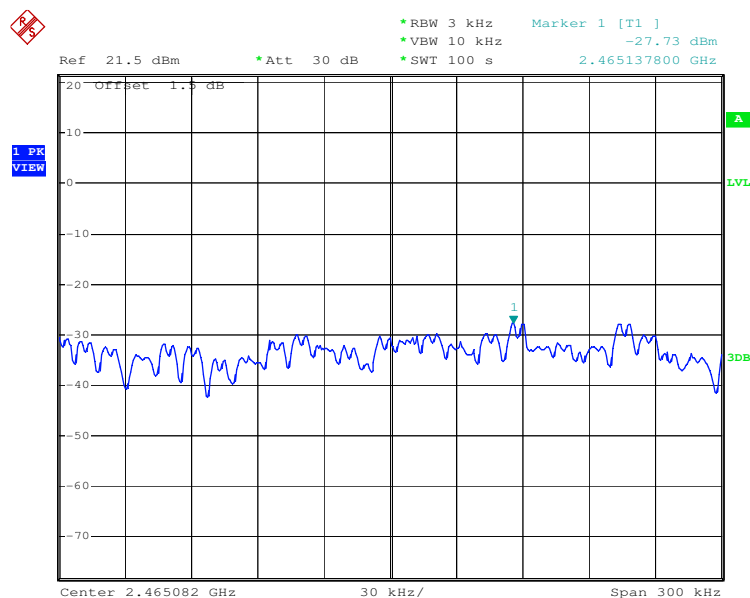
Report No.: SZEM120500256101

Page: 42 of 102

Test mode:	802.11g	Test channel:	Middle
------------	---------	---------------	--------



Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------



"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."

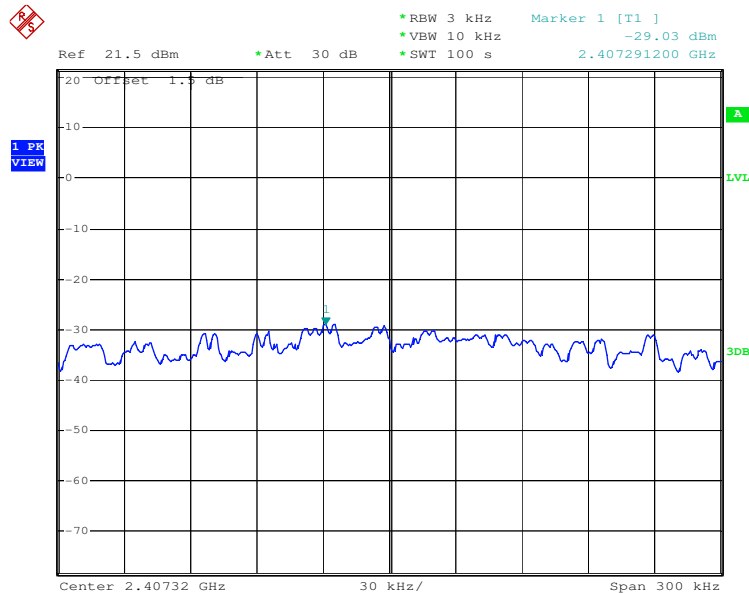


SGS-CSTC Standards Technical Services Ltd.

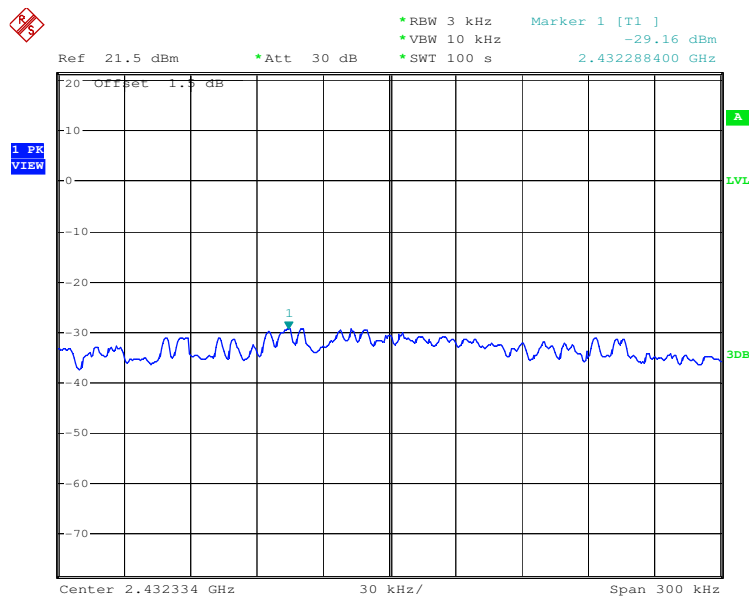
Report No.: SZEM120500256101

Page: 43 of 102

Test mode:	802.11n(HT20)	Test channel:	Lowest
------------	---------------	---------------	--------



Test mode:	802.11n(HT20)	Test channel:	Middle
------------	---------------	---------------	--------



"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."

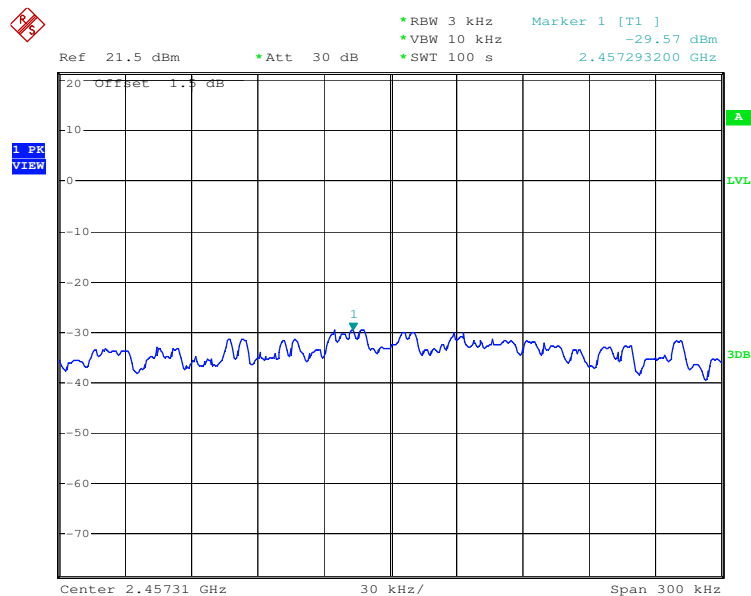


SGS-CSTC Standards Technical Services Ltd.

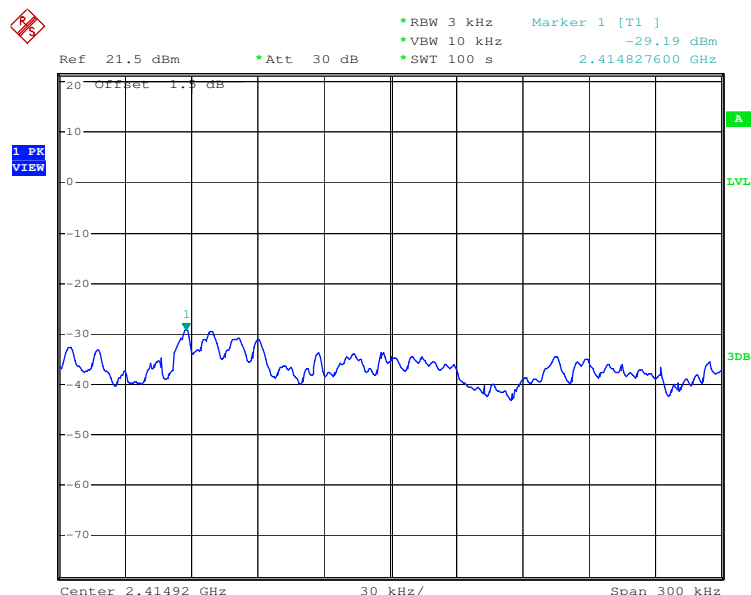
Report No.: SZEM120500256101

Page: 44 of 102

Test mode:	802.11n(HT20)	Test channel:	Highest
------------	---------------	---------------	---------



Test mode:	802.11n(HT40)	Test channel:	Lowest
------------	---------------	---------------	--------



"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."

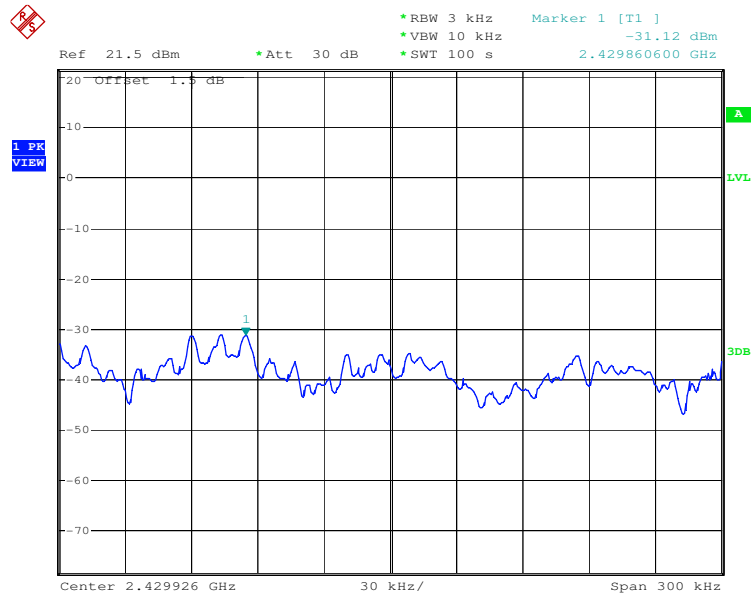


SGS-CSTC Standards Technical Services Ltd.

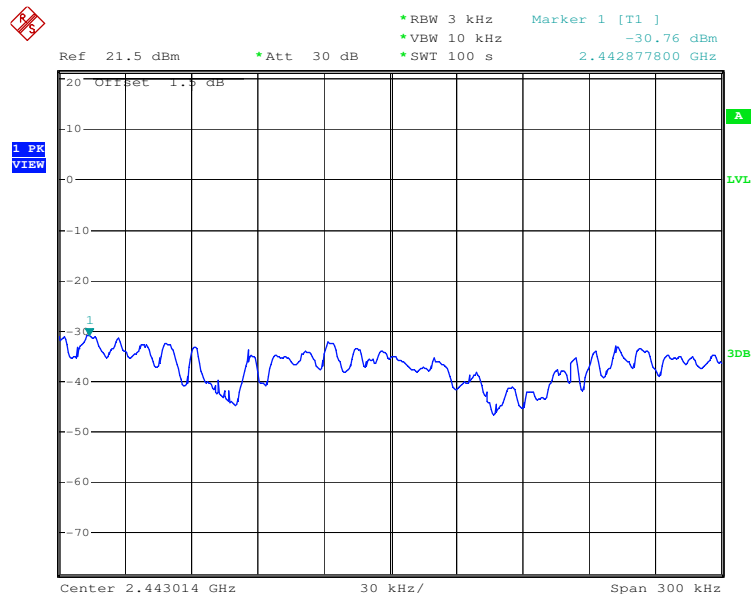
Report No.: SZEM120500256101

Page: 45 of 102

Test mode:	802.11n(HT40)	Test channel:	Middle
------------	---------------	---------------	--------

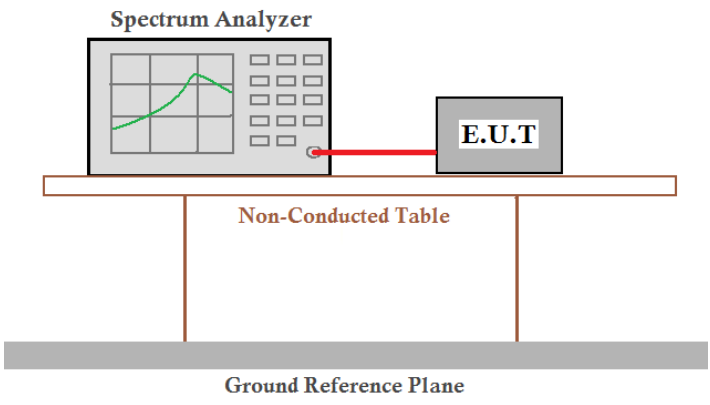


Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------



"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."

5.6 Band-edge for RF Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009
Test Setup:	 <i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g ; 65Mbps of rate is the worst case of 802.11n(HT20) ; 135Mbps of rate is the worst case of 802.11n(HT40).
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.
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass



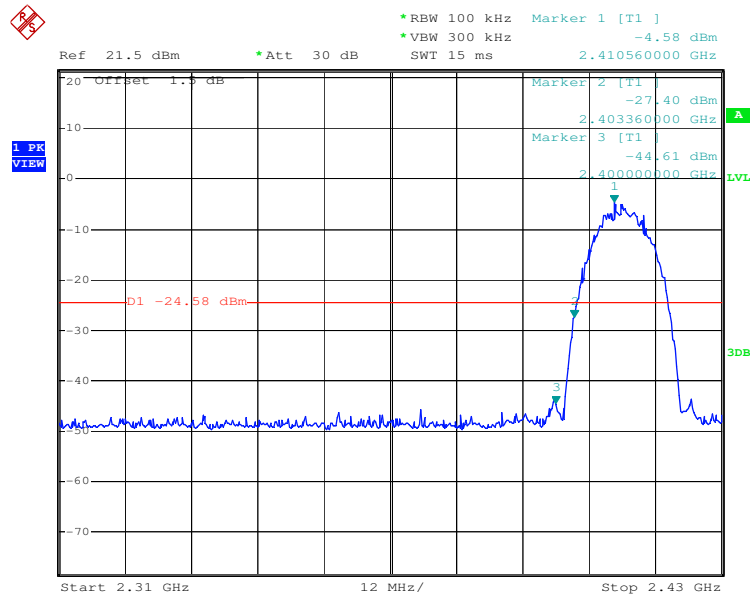
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

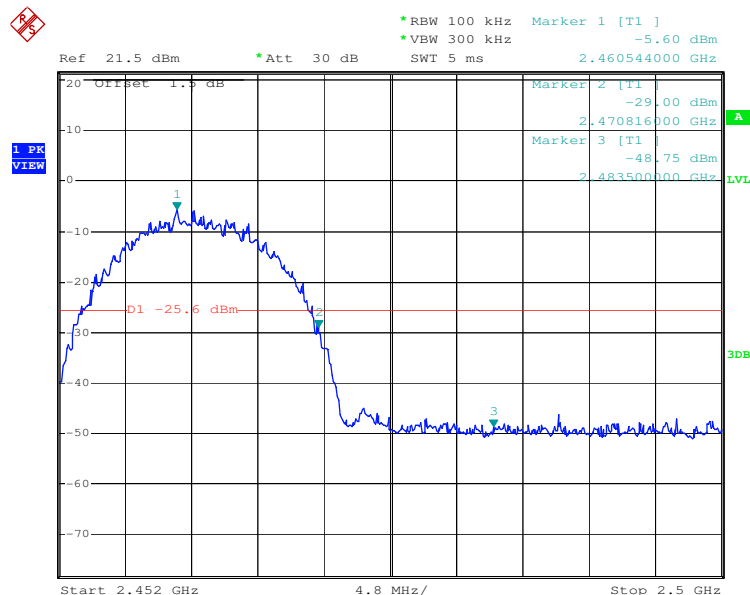
Page: 47 of 102

Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------



Test mode:	802.11b	Test channel:	Highest
------------	---------	---------------	---------



"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."

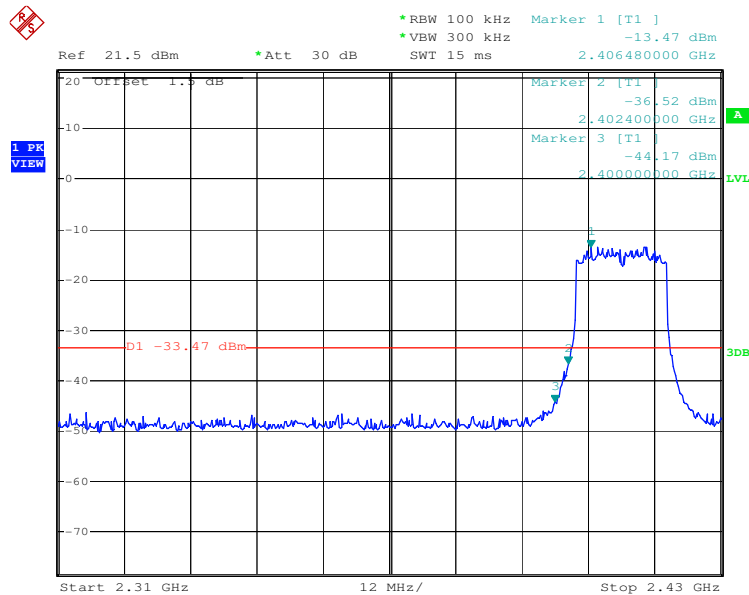


SGS-CSTC Standards Technical Services Ltd.

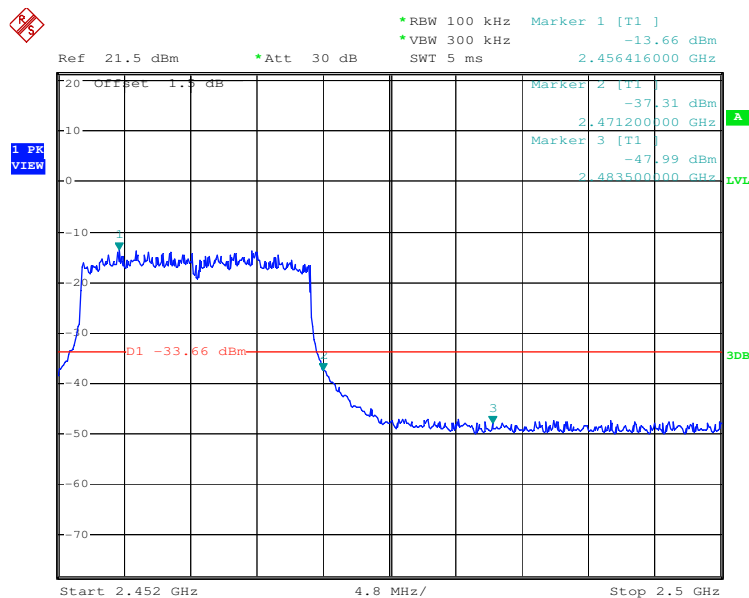
Report No.: SZEM120500256101

Page: 48 of 102

Test mode:	802.11g	Test channel:	Lowest
------------	---------	---------------	--------



Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------



"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."

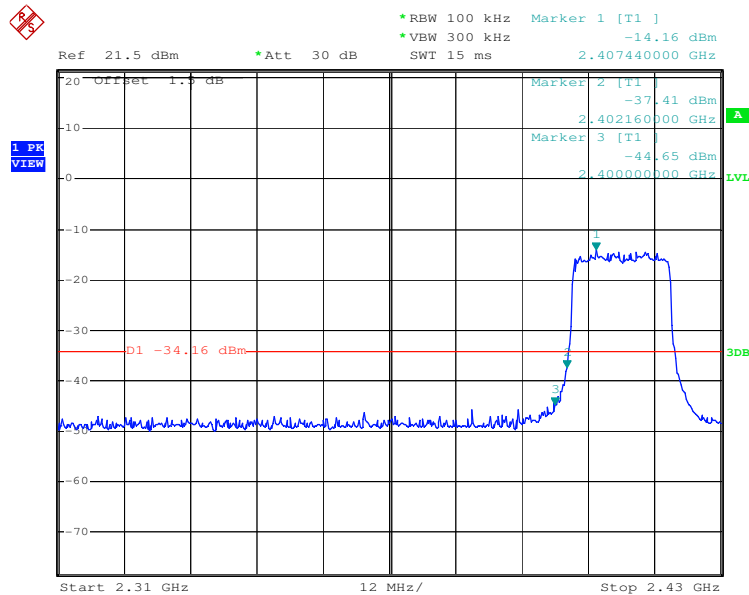


SGS-CSTC Standards Technical Services Ltd.

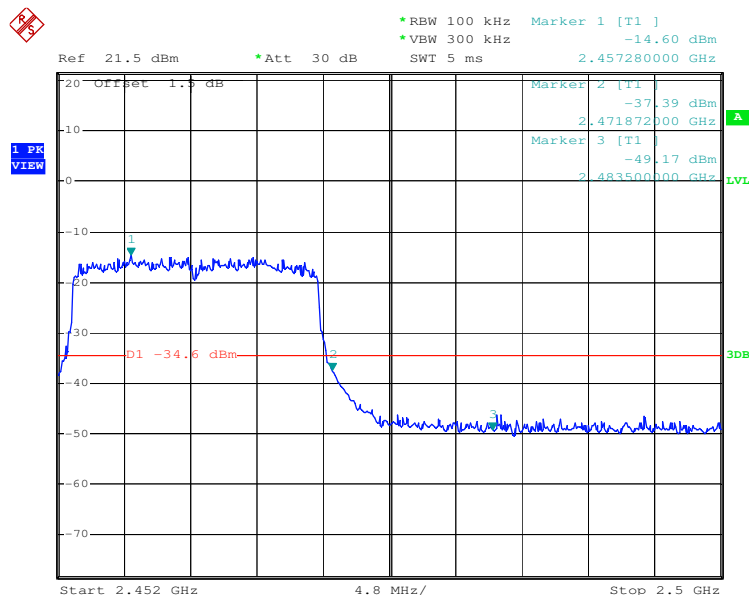
Report No.: SZEM120500256101

Page: 49 of 102

Test mode:	802.11n(HT20)	Test channel:	Lowest
------------	---------------	---------------	--------



Test mode:	802.11n(HT20)	Test channel:	Highest
------------	---------------	---------------	---------



"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."

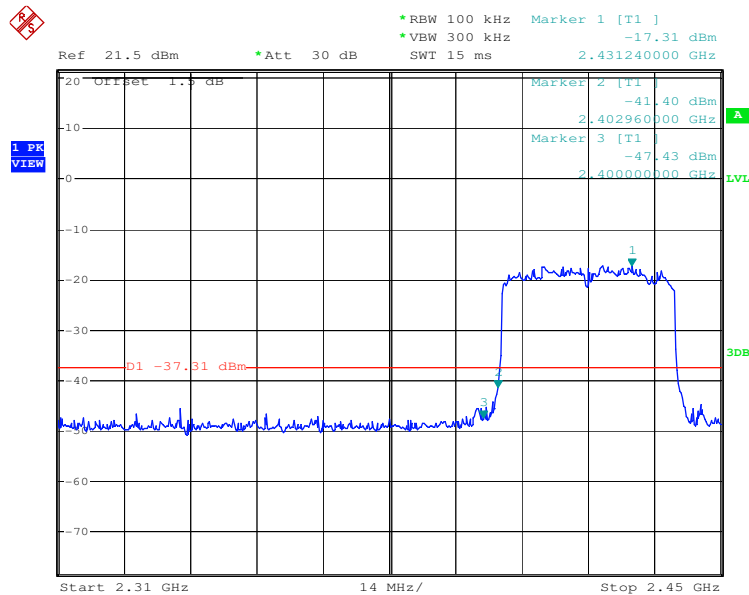


SGS-CSTC Standards Technical Services Ltd.

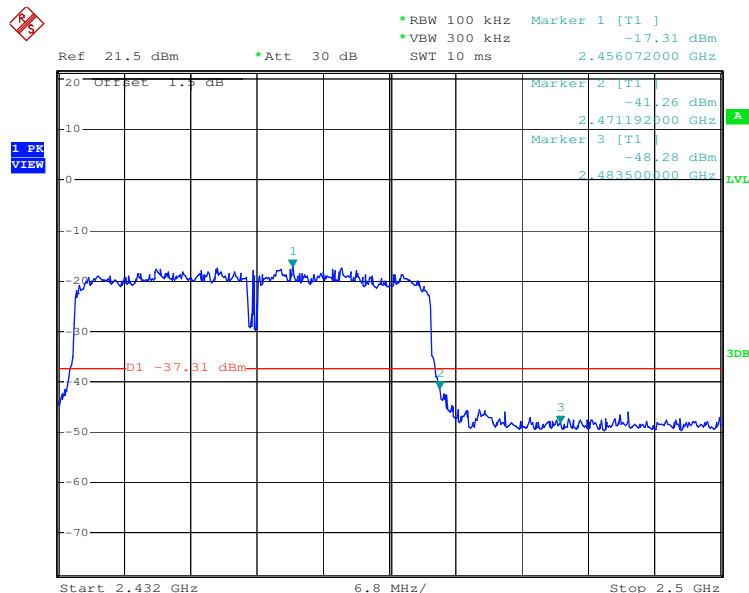
Report No.: SZEM120500256101

Page: 50 of 102

Test mode:	802.11n(HT40)	Test channel:	Lowest
------------	---------------	---------------	--------

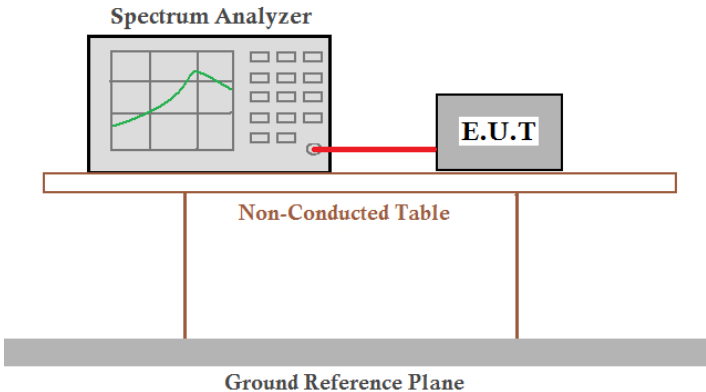


Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------



"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."

5.7 RF Conducted Spurious Emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2009
Test Setup:	 <i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g ; 65Mbps of rate is the worst case of 802.11n(HT20) ; 135Mbps of rate is the worst case of 802.11n(HT40)
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.
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass



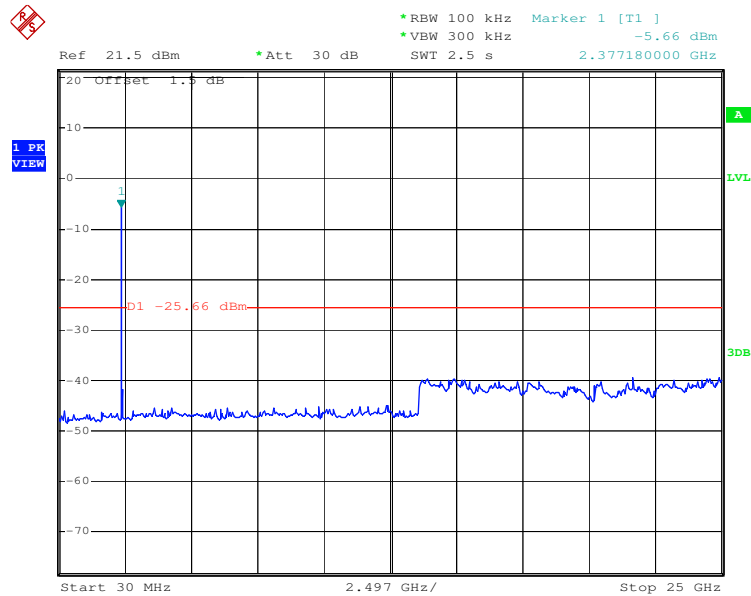
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

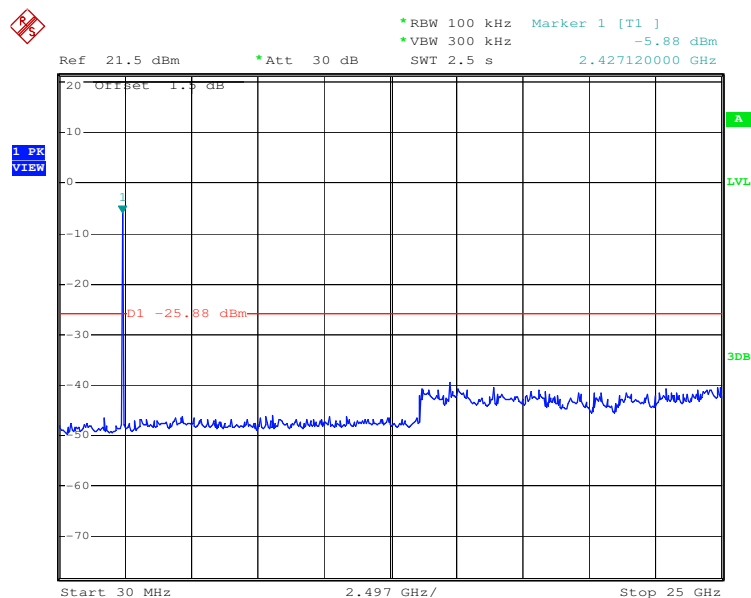
Page: 52 of 102

Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------



Test mode:	802.11b	Test channel:	Middle
------------	---------	---------------	--------



"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."

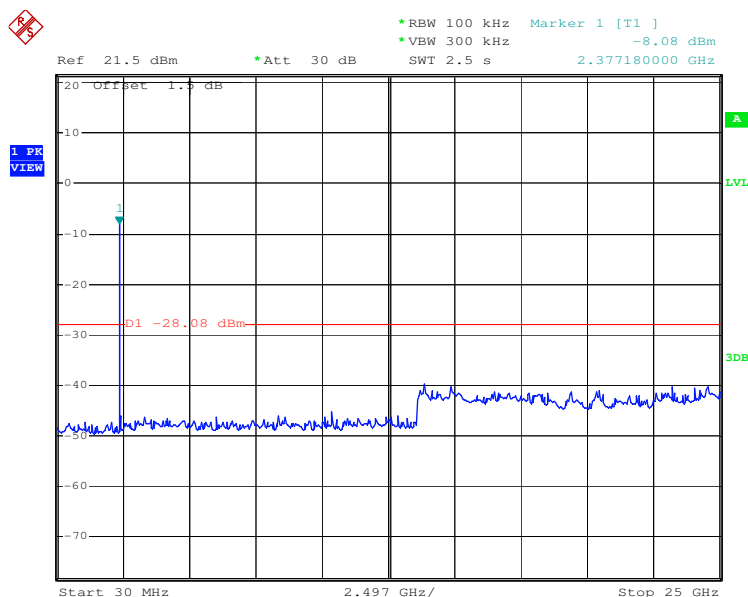


SGS-CSTC Standards Technical Services Ltd.

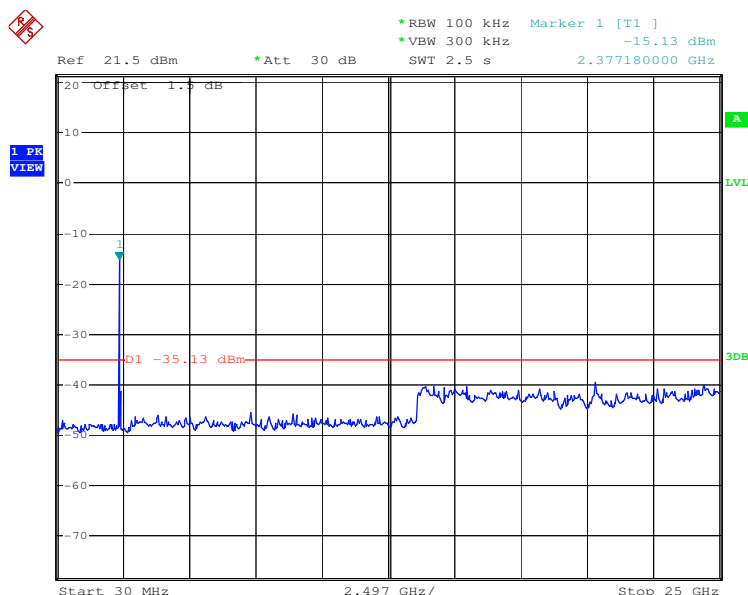
Report No.: SZEM120500256101

Page: 53 of 102

Test mode:	802.11b	Test channel:	Highest
------------	---------	---------------	---------



Test mode:	802.11g	Test channel:	Lowest
------------	---------	---------------	--------



"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."

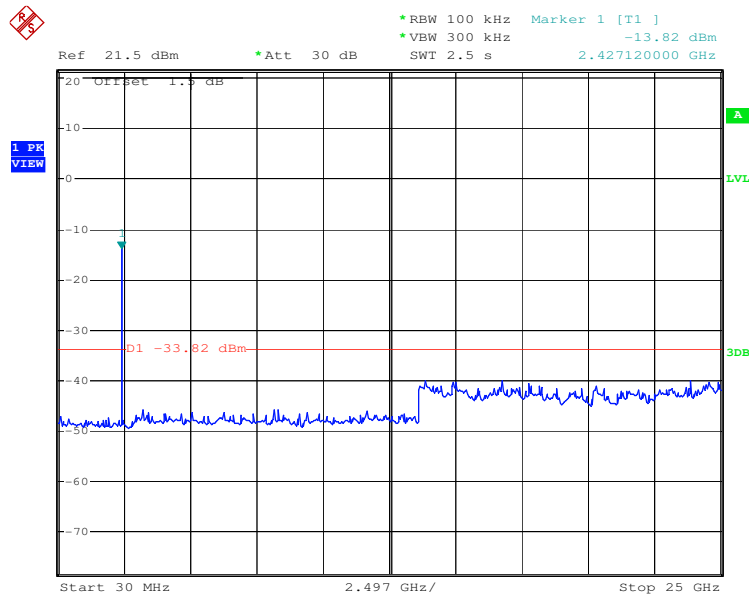


SGS-CSTC Standards Technical Services Ltd.

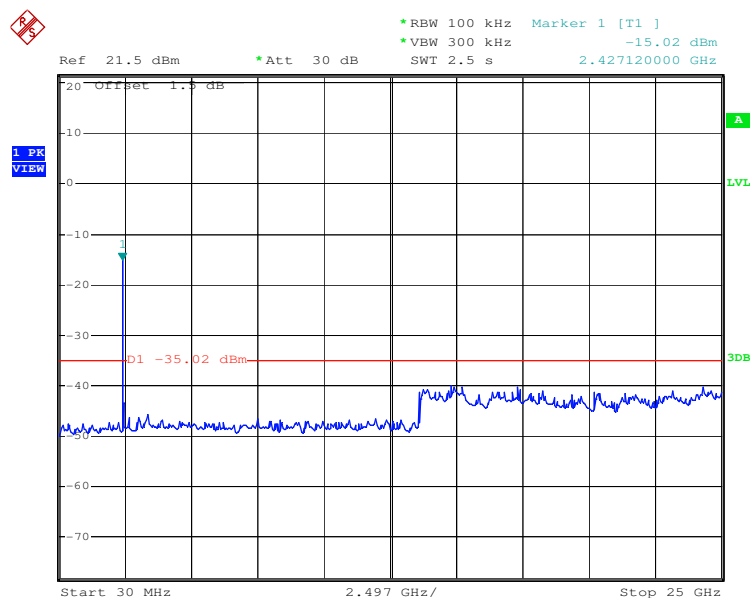
Report No.: SZEM120500256101

Page: 54 of 102

Test mode:	802.11g	Test channel:	Middle
------------	---------	---------------	--------



Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------



"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."

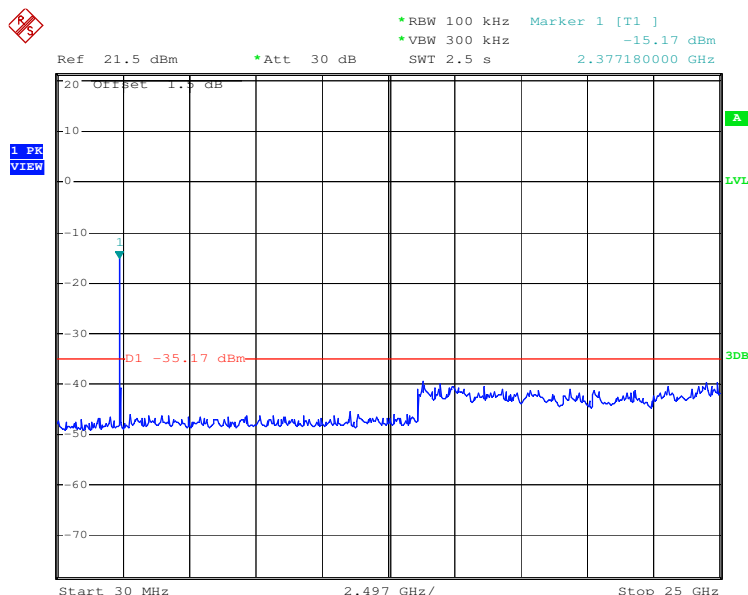


SGS-CSTC Standards Technical Services Ltd.

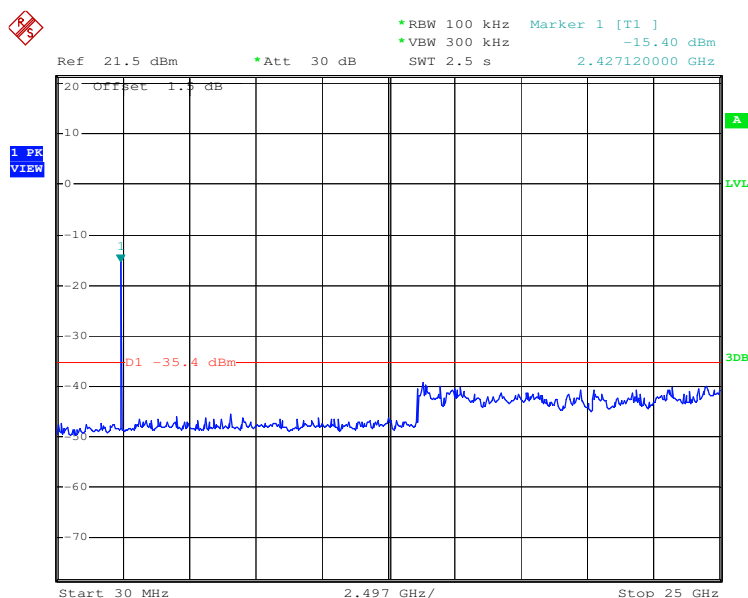
Report No.: SZEM120500256101

Page: 55 of 102

Test mode:	802.11n(HT20)	Test channel:	Lowest
------------	---------------	---------------	--------



Test mode:	802.11n(HT20)	Test channel:	Middle
------------	---------------	---------------	--------



"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."

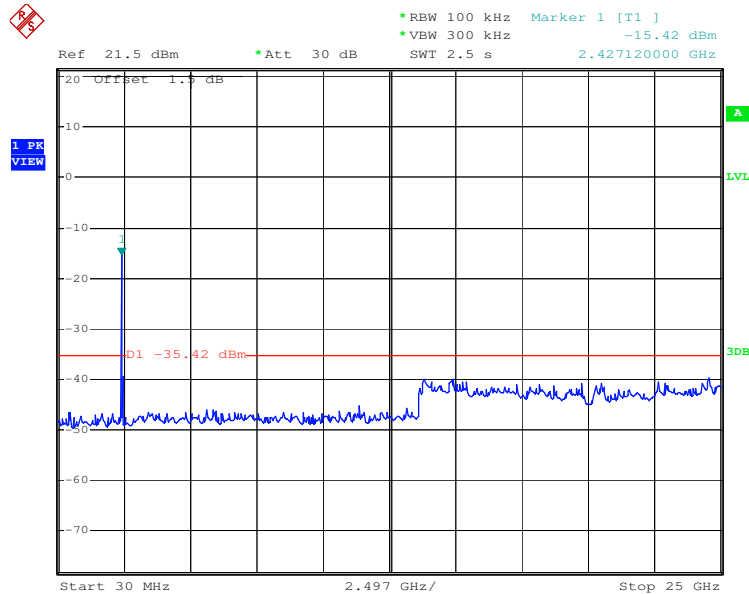


SGS-CSTC Standards Technical Services Ltd.

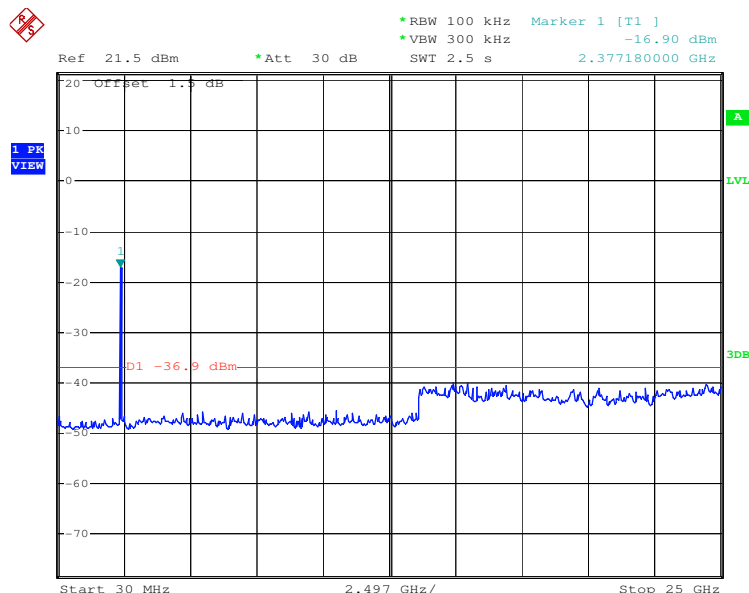
Report No.: SZEM120500256101

Page: 56 of 102

Test mode:	802.11n(HT20)	Test channel:	Highest
------------	---------------	---------------	---------



Test mode:	802.11n(HT40)	Test channel:	Lowest
------------	---------------	---------------	--------



"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."

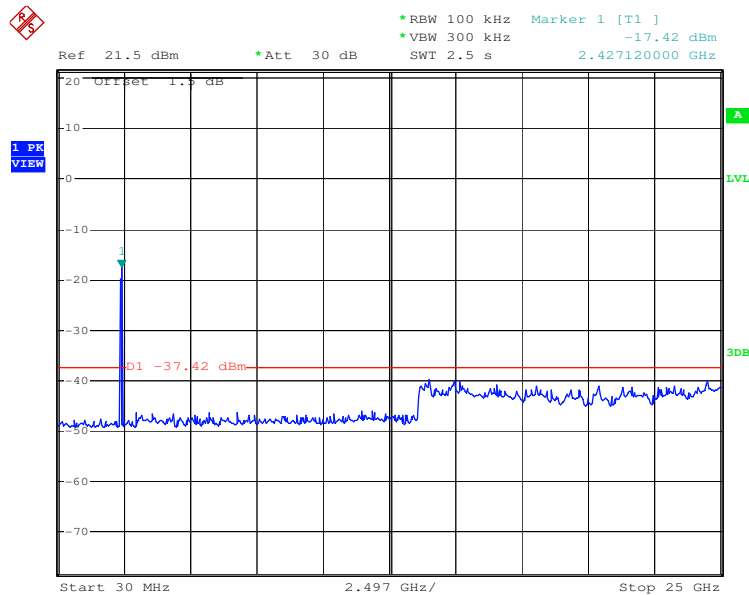


SGS-CSTC Standards Technical Services Ltd.

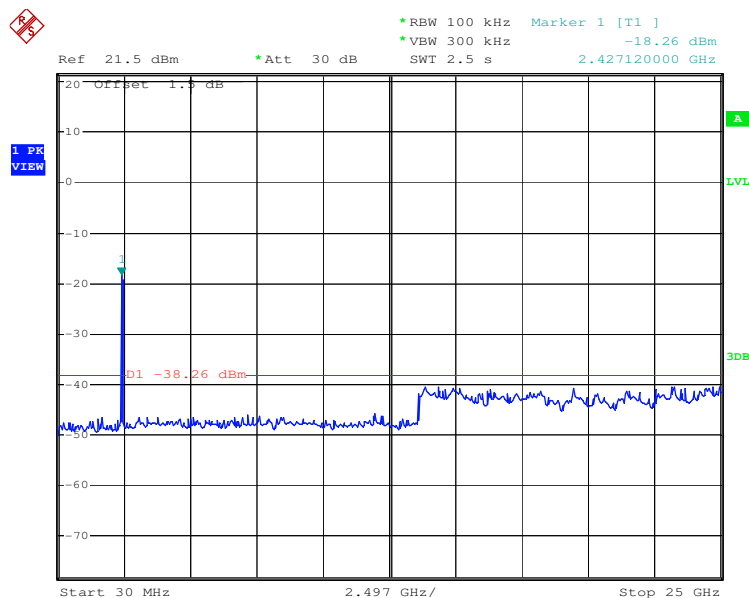
Report No.: SZEM120500256101

Page: 57 of 102

Test mode:	802.11n(HT40)	Test channel:	Middle
------------	---------------	---------------	--------



Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------



"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."



5.8 Radiated Spurious Emissions

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2009				
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
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		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 peak emission level radiated by the device.				

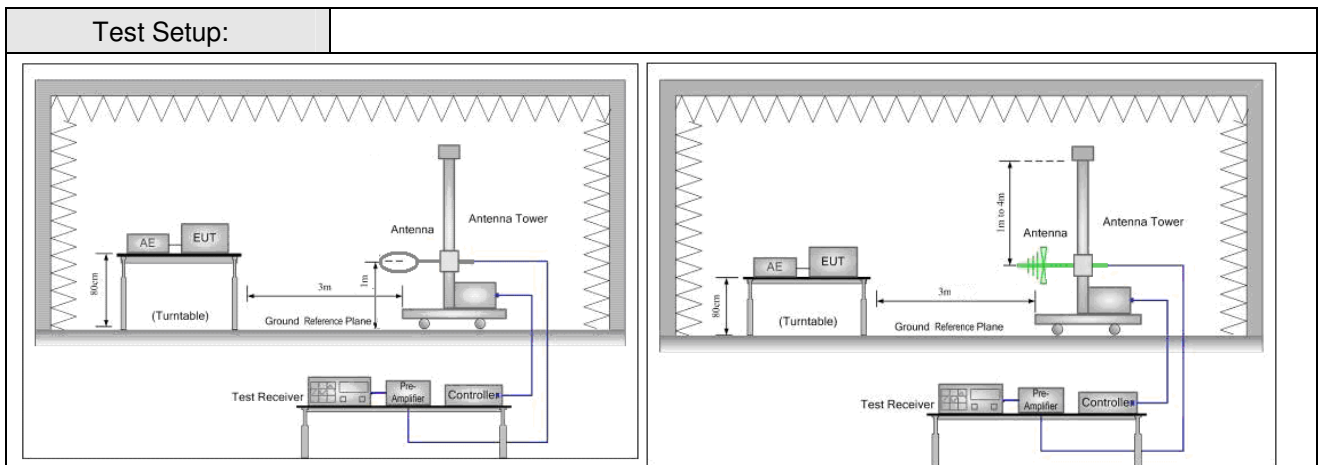


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

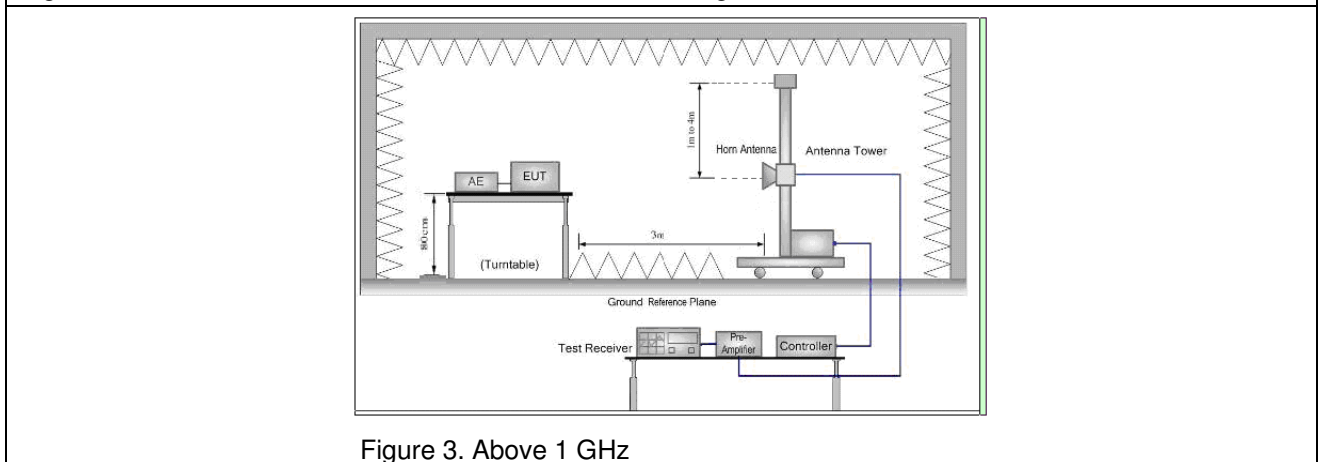


Figure 3. Above 1 GHz

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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. 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 (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
-------------------------------	---

"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."



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 60 of 102

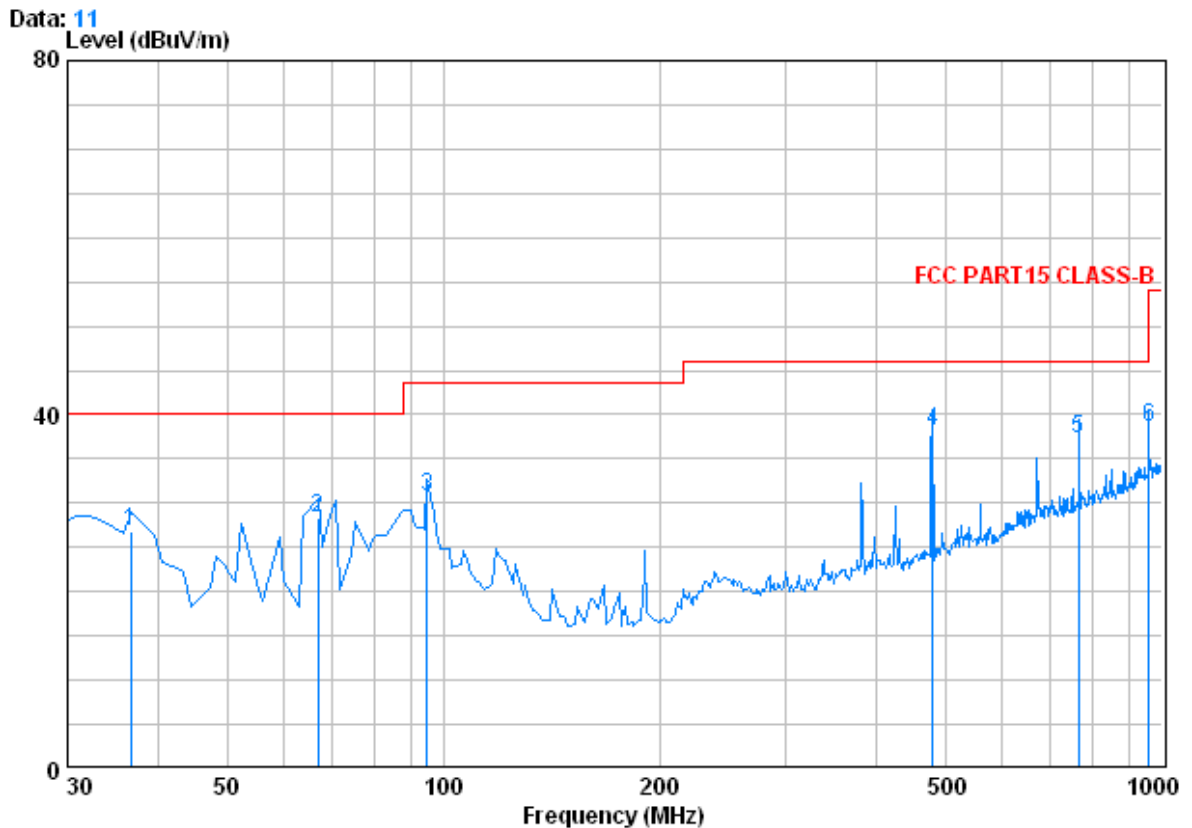
	margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g; 65Mbps of rate is the worst case of 802.11n(HT20); 135Mbps of rate is the worst case of 802.11n(HT40)
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

"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."



5.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical



Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL

Job No. : 2561IT

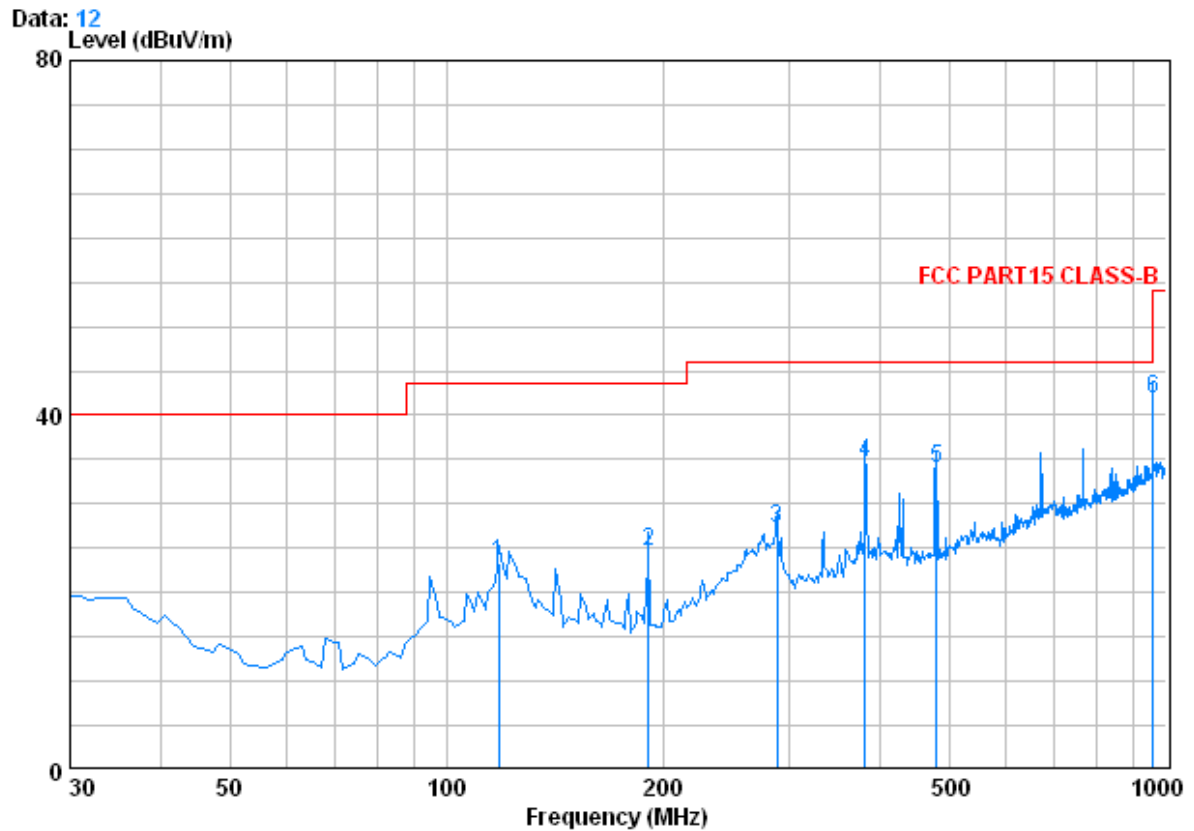
test mode : Transmitting

		Cable	Antenna	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.790	0.60	12.30	27.33	41.35	26.92	40.00	-13.08
2	66.860	0.80	6.99	27.25	47.90	28.43	40.00	-11.57
3	94.990	1.15	8.91	27.21	47.80	30.65	43.50	-12.85
4	479.110	2.52	17.80	27.60	45.53	38.25	46.00	-7.75
5	766.230	3.11	21.90	27.33	39.71	37.38	46.00	-8.62
6	959.260	3.66	23.60	26.51	37.74	38.49	46.00	-7.51

"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."



Test mode:	Transmitting	Horizontal
------------	--------------	------------



Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL

Job No. : 2561IT

test mode : Transmitting

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	118.270	1.25	8.02	27.08	41.05	23.24	43.50	-20.26
2	191.020	1.39	10.11	26.73	39.96	24.72	43.50	-18.78
3	288.020	1.85	13.40	26.43	38.50	27.31	46.00	-18.69
4	382.110	2.15	16.08	27.01	43.36	34.59	46.00	-11.41
5	479.110	2.52	17.80	27.60	41.31	34.03	46.00	-11.97
6	959.260	3.66	23.60	26.51	41.07	41.83	46.00	-4.17

"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."

**5.8.2 Transmitter emission above 1GHz**

Test mode:		802.11b		Test channel:		Lowest		Remark:		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		
2782.371	3.20	33.10	40.14	47.83	43.99	74	-30.01	Vertical		
3672.110	3.88	33.41	40.80	48.92	45.41	74	-28.59	Vertical		
4821.757	4.70	34.68	41.64	51.61	49.35	74	-24.65	Vertical		
5806.408	5.06	35.40	41.09	48.90	48.27	74	-25.73	Vertical		
7489.599	6.10	36.00	39.62	48.32	50.80	74	-23.20	Vertical		
8615.126	6.17	36.29	38.65	47.51	51.32	74	-22.68	Vertical		
2761.204	3.18	33.07	40.13	47.90	44.02	74	-29.98	Horizontal		
4004.083	4.16	33.85	41.04	48.80	45.77	74	-28.23	Horizontal		
4821.757	4.70	34.68	41.64	51.82	49.56	74	-24.44	Horizontal		
6172.197	5.17	35.90	40.78	50.52	50.81	74	-23.19	Horizontal		
7099.747	5.64	35.84	39.97	49.86	51.37	74	-22.63	Horizontal		
8022.456	6.20	36.01	39.16	49.38	52.43	74	-21.57	Horizontal		
Test mode:		802.11b		Test channel:		Middle		Remark:		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		
2733.232	3.17	33.03	40.10	46.41	42.51	74	-31.49	Vertical		
3200.502	3.49	33.32	40.45	46.55	42.91	74	-31.09	Vertical		
3913.393	4.08	33.70	40.97	47.56	44.37	74	-29.63	Vertical		
5191.168	4.84	34.60	41.62	48.05	45.87	74	-28.13	Vertical		
6799.064	5.34	36.01	40.23	47.44	48.56	74	-25.44	Vertical		
8571.377	6.18	36.25	38.70	46.33	50.06	74	-23.94	Vertical		
2698.665	3.15	32.98	40.07	45.80	41.86	74	-32.14	Horizontal		
3367.661	3.62	33.26	40.58	46.64	42.94	74	-31.06	Horizontal		
4641.118	4.59	34.98	41.51	47.39	45.45	74	-28.55	Horizontal		
5574.673	4.98	35.01	41.29	48.22	46.92	74	-27.08	Horizontal		
7045.735	5.58	35.82	40.02	49.45	50.83	74	-23.17	Horizontal		
8042.903	6.20	36.01	39.15	47.77	50.83	74	-23.17	Horizontal		

"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."



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 64 of 102

Test mode:		802.11b		Test channel:		Highest		Remark:	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	
2726.283	3.16	33.03	40.10	45.75	41.84	74	-32.16	Vertical	
3359.099	3.62	33.26	40.56	46.38	42.70	74	-31.30	Vertical	
4117.785	4.24	34.13	41.12	47.19	44.44	74	-29.56	Vertical	
5244.295	4.86	34.65	41.58	47.94	45.87	74	-28.13	Vertical	
5776.922	5.05	35.34	41.12	46.83	46.10	74	-27.90	Vertical	
7508.688	6.13	36.00	39.61	47.02	49.54	74	-24.46	Vertical	
2839.613	3.23	33.17	40.19	47.78	43.99	74	-30.01	Horizontal	
3489.840	3.73	33.21	40.66	47.89	44.17	74	-29.83	Horizontal	
4883.519	4.72	34.59	41.68	48.67	46.30	74	-27.70	Horizontal	
7489.599	6.10	36.00	39.62	48.32	50.80	74	-23.20	Horizontal	
8973.250	6.16	36.57	38.34	46.77	51.16	74	-22.84	Horizontal	
10587.850	6.12	38.33	37.69	45.44	52.20	74	-21.80	Horizontal	

Test mode:		802.11g		Test channel:		Lowest		Remark:	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	
2818.011	3.22	33.14	40.17	46.47	42.66	74	-31.34	Vertical	
3516.592	3.75	33.22	40.67	46.08	42.38	74	-31.62	Vertical	
4512.966	4.50	35.17	41.42	47.27	45.52	74	-28.48	Vertical	
6445.156	5.24	36.22	40.53	47.73	48.66	74	-25.34	Vertical	
7860.737	6.21	36.00	39.31	46.86	49.76	74	-24.24	Vertical	
9042.038	6.15	36.64	38.29	45.99	50.49	74	-23.51	Vertical	
2747.183	3.18	33.05	40.12	46.94	43.05	74	-30.95	Horizontal	
3274.672	3.55	33.29	40.51	47.16	43.49	74	-30.51	Horizontal	
4772.910	4.67	34.76	41.61	47.69	45.51	74	-28.49	Horizontal	
6445.156	5.24	36.22	40.53	48.65	49.58	74	-24.42	Horizontal	
7508.688	6.13	36.00	39.61	47.84	50.36	74	-23.64	Horizontal	
9019.050	6.15	36.62	38.31	46.01	50.47	74	-23.53	Horizontal	

"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."



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 65 of 102

Test mode:		802.11g		Test channel:		Middle		Remark:		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			
2733.232	3.17	33.03	40.10	45.92	42.02	74	-31.98	Vertical			
3543.550	3.78	33.26	40.70	46.77	43.11	74	-30.89	Vertical			
4366.067	4.41	34.83	41.30	47.60	45.54	74	-28.46	Vertical			
5940.967	5.11	35.62	40.97	46.95	46.71	74	-27.29	Vertical			
7301.355	5.90	35.92	39.79	46.64	48.67	74	-25.33	Vertical			
9514.293	6.01	37.22	37.88	45.08	50.43	74	-23.57	Vertical			
2832.394	3.22	33.17	40.17	45.98	42.20	74	-31.80	Horizontal			
3570.714	3.79	33.28	40.72	46.34	42.69	74	-31.31	Horizontal			
4785.075	4.68	34.73	41.61	46.43	44.23	74	-29.77	Horizontal			
6203.700	5.18	35.94	40.74	47.07	47.45	74	-26.55	Horizontal			
7413.726	6.02	35.97	39.69	47.00	49.30	74	-24.70	Horizontal			
8355.943	6.19	36.14	38.88	46.51	49.96	74	-24.04	Horizontal			

Test mode:		802.11g		Test channel:		Highest		Remark:		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			
2775.298	3.19	33.07	40.13	45.88	42.01	74	-31.99	Vertical			
4024.520	4.18	33.89	41.05	46.26	43.28	74	-30.72	Vertical			
4946.072	4.75	34.48	41.74	47.74	45.23	74	-28.77	Vertical			
6903.705	5.45	35.90	40.13	47.61	48.83	74	-25.17	Vertical			
7761.322	6.22	36.00	39.39	46.59	49.42	74	-24.58	Vertical			
9611.663	5.99	37.32	37.80	44.78	50.29	74	-23.71	Vertical			
2875.986	3.25	33.21	40.21	45.15	41.40	74	-32.60	Horizontal			
3893.520	4.07	33.68	40.95	46.34	43.14	74	-30.86	Horizontal			
5631.725	5.00	35.09	41.24	47.48	46.33	74	-27.67	Horizontal			
6992.135	5.52	35.82	40.07	47.00	48.27	74	-25.73	Horizontal			
8837.241	6.16	36.47	38.47	45.15	49.31	74	-24.69	Horizontal			
9538.543	6.00	37.23	37.86	44.67	50.04	74	-23.96	Horizontal			

"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."



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 66 of 102

Test mode:		802.11n(HT20)		Test channel:		Lowest		Remark:		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		
2719.353	3.16	33.00	40.09	44.67	40.74	74	-33.26	Vertical		
3419.491	3.67	33.23	40.61	45.20	41.49	74	-32.51	Vertical		
4834.046	4.71	34.65	41.65	45.97	43.68	74	-30.32	Vertical		
6017.064	5.13	35.72	40.91	47.61	47.55	74	-26.45	Vertical		
7800.936	6.22	36.00	39.36	46.59	49.45	74	-24.55	Vertical		
8927.683	6.16	36.53	38.39	45.53	49.83	74	-24.17	Vertical		
2671.326	3.13	32.93	40.06	45.39	41.39	74	-32.61	Horizontal		
3454.486	3.70	33.22	40.63	45.83	42.12	74	-31.88	Horizontal		
4181.159	4.28	34.31	41.16	46.01	43.44	74	-30.56	Horizontal		
5660.469	5.00	35.15	41.22	46.64	45.57	74	-28.43	Horizontal		
6921.301	5.47	35.89	40.12	46.34	47.58	74	-26.42	Horizontal		
7413.726	6.02	35.97	39.69	46.75	49.05	74	-24.95	Horizontal		
Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		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		
2657.761	3.13	32.93	40.05	44.93	40.94	74	-33.06	Vertical		
3933.367	4.11	33.74	40.98	46.20	43.07	74	-30.93	Vertical		
5434.559	4.93	34.83	41.42	47.05	45.39	74	-28.61	Vertical		
5865.832	5.08	35.48	41.04	46.34	45.86	74	-28.14	Vertical		
7761.322	6.22	36.00	39.39	47.42	50.25	74	-23.75	Vertical		
8462.975	6.18	36.19	38.78	45.75	49.34	74	-24.66	Vertical		
2671.326	3.13	32.93	40.06	44.51	40.51	74	-33.49	Horizontal		
3653.463	3.87	33.39	40.79	45.99	42.46	74	-31.54	Horizontal		
4688.616	4.61	34.90	41.54	46.36	44.33	74	-29.67	Horizontal		
6527.712	5.27	36.28	40.46	46.84	47.93	74	-26.07	Horizontal		
9065.084	6.14	36.66	38.27	44.85	49.38	74	-24.62	Horizontal		
10191.200	6.02	37.94	37.53	44.44	50.87	74	-23.13	Horizontal		

"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."



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 67 of 102

Test mode:		802.11n(HT20)		Test channel:		Highest		Remark:	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	
2775.298	3.19	33.07	40.13	47.17	43.30	74	-30.70	Vertical	
3728.625	3.93	33.49	40.84	47.31	43.89	74	-30.11	Vertical	
4895.965	4.73	34.57	41.70	47.20	44.80	74	-29.20	Vertical	
7154.172	5.71	35.86	39.92	47.56	49.21	74	-24.79	Vertical	
8681.168	6.17	36.35	38.60	45.78	49.70	74	-24.30	Vertical	
9909.795	5.98	37.61	37.53	45.85	51.91	74	-22.09	Vertical	
2761.204	3.18	33.07	40.13	45.74	41.86	74	-32.14	Horizontal	
3738.129	3.95	33.49	40.84	46.84	43.44	74	-30.56	Horizontal	
4421.992	4.44	34.97	41.35	46.33	44.39	74	-29.61	Horizontal	
4983.987	4.77	34.43	41.77	46.55	43.98	74	-30.02	Horizontal	
6267.190	5.20	36.02	40.69	46.85	47.38	74	-26.62	Horizontal	
7860.737	6.21	36.00	39.31	45.23	48.13	74	-25.87	Horizontal	

Test mode:		802.11n(HT40)		Test channel:		Lowest		Remark:	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	
2775.298	3.19	33.07	40.13	45.56	41.69	74	-32.31	Vertical	
3607.257	3.82	33.32	40.74	45.98	42.38	74	-31.62	Vertical	
4181.159	4.28	34.31	41.16	45.91	43.34	74	-30.66	Vertical	
5086.523	4.81	34.48	41.71	47.26	44.84	74	-29.16	Vertical	
6527.712	5.27	36.28	40.46	46.45	47.54	74	-26.46	Vertical	
7941.185	6.21	36.00	39.24	47.20	50.17	74	-23.83	Vertical	
2775.298	3.19	33.07	40.13	46.73	42.86	74	-31.14	Horizontal	
3316.617	3.58	33.28	40.54	47.71	44.03	74	-29.97	Horizontal	
4366.067	4.41	34.83	41.30	46.55	44.49	74	-29.51	Horizontal	
4971.316	4.76	34.43	41.75	46.93	44.37	74	-29.63	Horizontal	
6363.645	5.22	36.14	40.61	48.23	48.98	74	-25.02	Horizontal	
6938.942	5.47	35.87	40.10	47.17	48.41	74	-25.59	Horizontal	

"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."



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 68 of 102

Test mode:		802.11n(HT40)		Test channel:		Middle		Remark:		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		
2698.665	3.15	32.98	40.07	45.16	41.22	74	-32.78	Vertical		
3644.175	3.85	33.39	40.77	46.07	42.54	74	-31.46	Vertical		
4983.987	4.77	34.43	41.77	45.88	43.31	74	-30.69	Vertical		
5546.364	4.97	34.96	41.32	46.80	45.41	74	-28.59	Vertical		
7063.693	5.60	35.83	40.00	46.20	47.63	74	-26.37	Vertical		
9346.262	6.06	37.01	38.03	45.17	50.21	74	-23.79	Vertical		
2789.463	3.20	33.10	40.14	46.33	42.49	74	-31.51	Horizontal		
3795.660	3.99	33.55	40.88	45.84	42.50	74	-31.50	Horizontal		
5703.861	5.02	35.23	41.17	46.97	46.05	74	-27.95	Horizontal		
7604.867	6.23	36.00	39.52	47.59	50.30	74	-23.70	Horizontal		
9042.038	6.15	36.64	38.29	44.77	49.27	74	-24.73	Horizontal		
10217.170	6.03	37.96	37.54	44.44	50.89	74	-23.11	Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Highest		Remark:		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		
2698.665	3.15	32.98	40.07	44.60	40.66	74	-33.34	Vertical		
3402.126	3.65	33.24	40.59	45.61	41.91	74	-32.09	Vertical		
4076.070	4.21	34.03	41.09	45.99	43.14	74	-30.86	Vertical		
5546.364	4.97	34.96	41.32	46.80	45.41	74	-28.59	Vertical		
7781.104	6.22	36.00	39.38	45.37	48.21	74	-25.79	Vertical		
10321.740	6.05	38.08	37.58	44.64	51.19	74	-22.81	Vertical		
2733.232	3.17	33.03	40.10	44.99	41.09	74	-32.91	Horizontal		
3815.033	4.01	33.59	40.90	46.22	42.92	74	-31.08	Horizontal		
4858.719	4.72	34.62	41.67	46.79	44.46	74	-29.54	Horizontal		
5462.297	4.94	34.85	41.38	46.95	45.36	74	-28.64	Horizontal		
7702.278	6.22	36.00	39.44	45.72	48.50	74	-25.50	Horizontal		
9611.663	5.99	37.32	37.80	44.82	50.33	74	-23.67	Horizontal		

Remark:

- 1) 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
- 2) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

"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."

5.9 Band Edge (Radiated Emission)

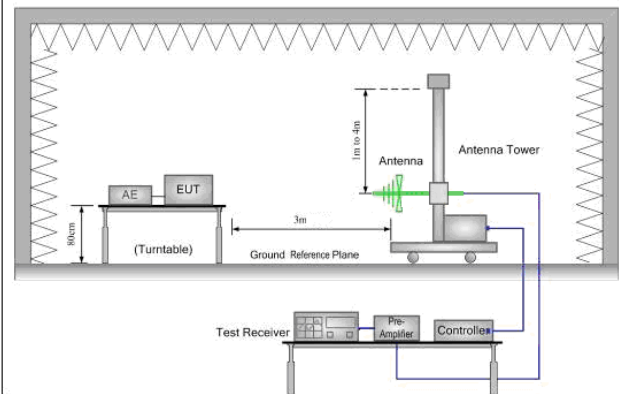
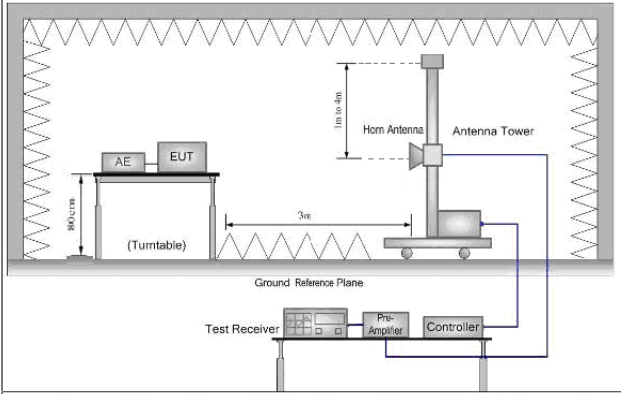
Test Requirement:	FCC Part15 C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2009		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:	 		

Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 70 of 102

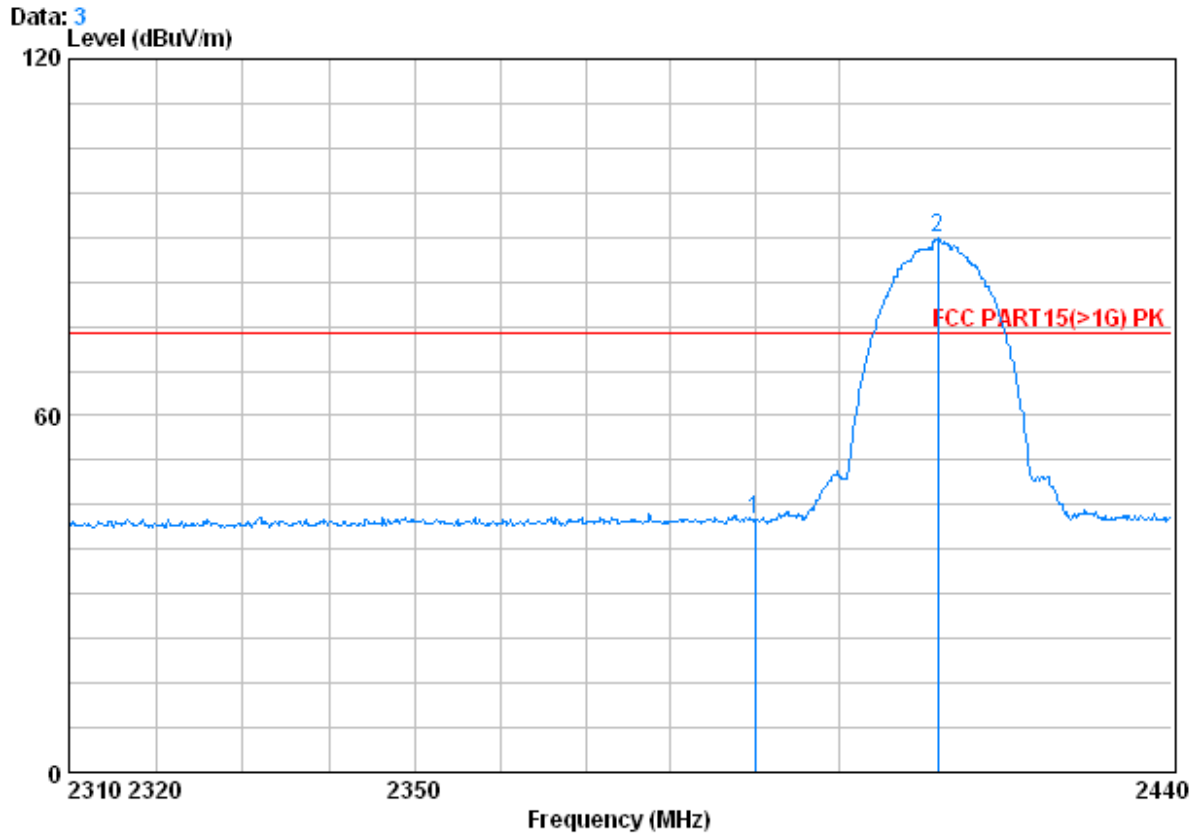
Test Procedure:	- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - 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. - 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. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - 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 - Test the EUT in the lowest channel , the Highest channel - The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. - Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting mode
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11b; 54Mbps of rate is the worst case of 802.11g ; 65Mbps of rate is the worst case of 802.11n(HT20) ; 135Mbps of rate is the worst case of 802.11n(HT40)
Instruments Used:	Refer to section 4.10 for details
Test Results:	Pass

"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."



Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
------------	---------	---------------	--------	---------	------	----------



Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2561IT
Mode : b 2412MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	2390.000	2.98	32.51	39.85	46.88	42.52	74.00
2 @	2411.790	2.99	32.54	39.86	94.13	89.81	74.00

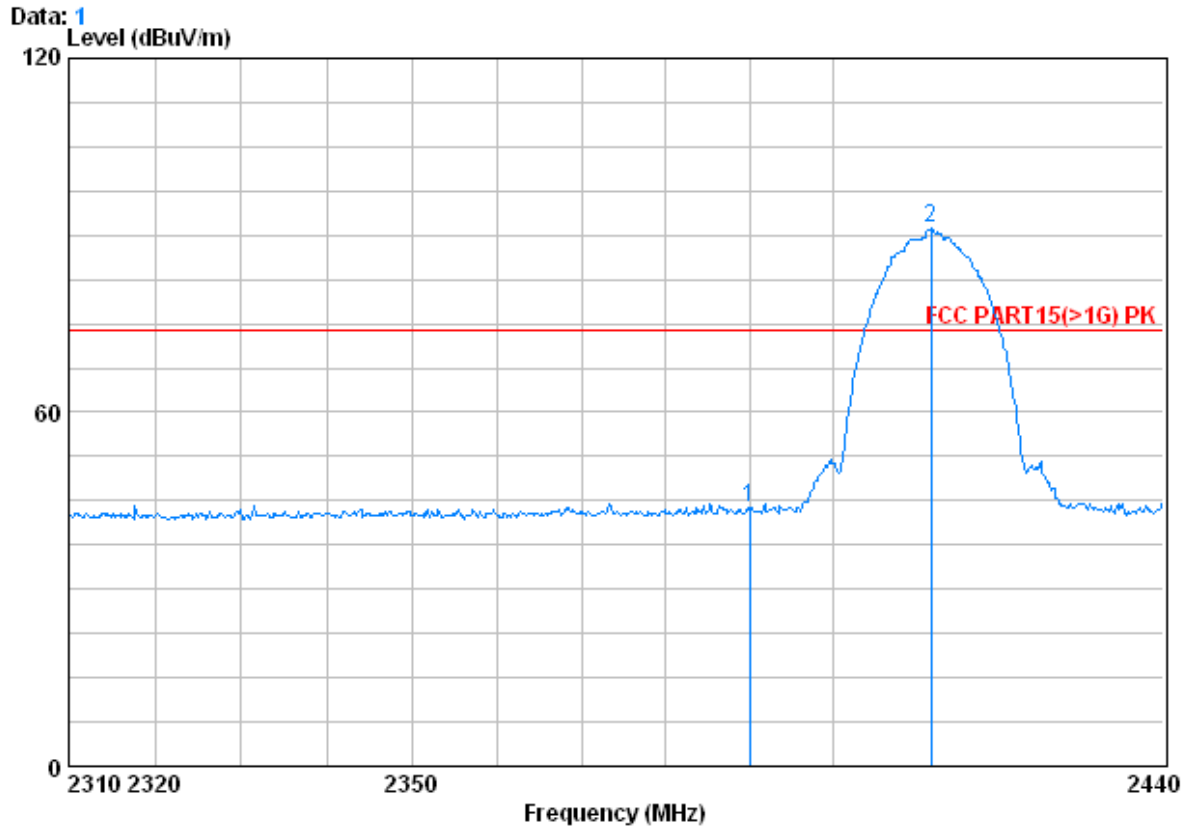


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 72 of 102

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
------------	---------	---------------	--------	---------	------	------------



Condition : FCC PART15(>1G) PK 3m HORIZONTAL
Job No. : 2561IT
Mode : b 2412MHz

	Freq	Cable	Antenna	Preamplifier	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	48.10	43.75	74.00 -30.25
2 @	2411.790	2.99	32.54	39.86	95.46	91.13	74.00 17.13

"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."

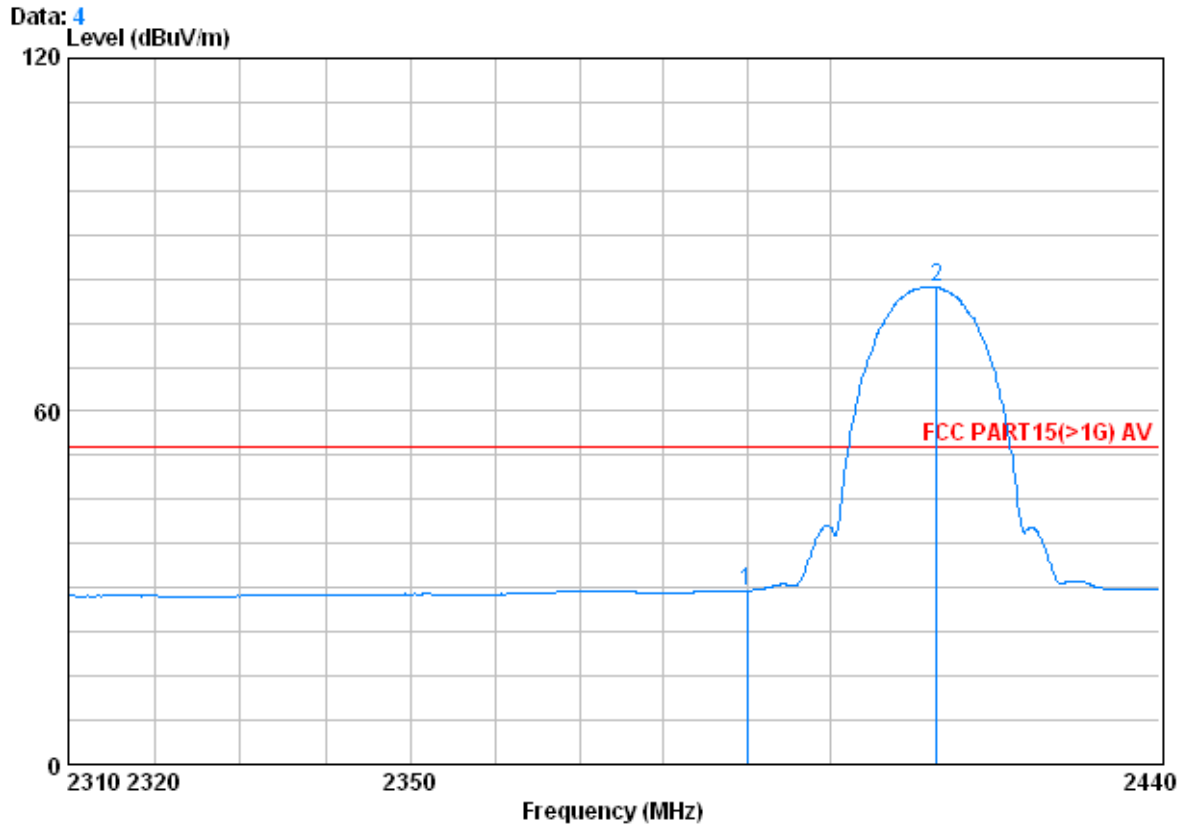


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 73 of 102

Test mode:	802.11b	Test channel:	Lowest	Remark:	Average	Vertical
------------	---------	---------------	--------	---------	---------	----------



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2561IT

Mode : b 2412MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	33.89	29.54	-24.46
2	2412.830	2.99	32.54	39.86	85.45	81.12	27.12

"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."

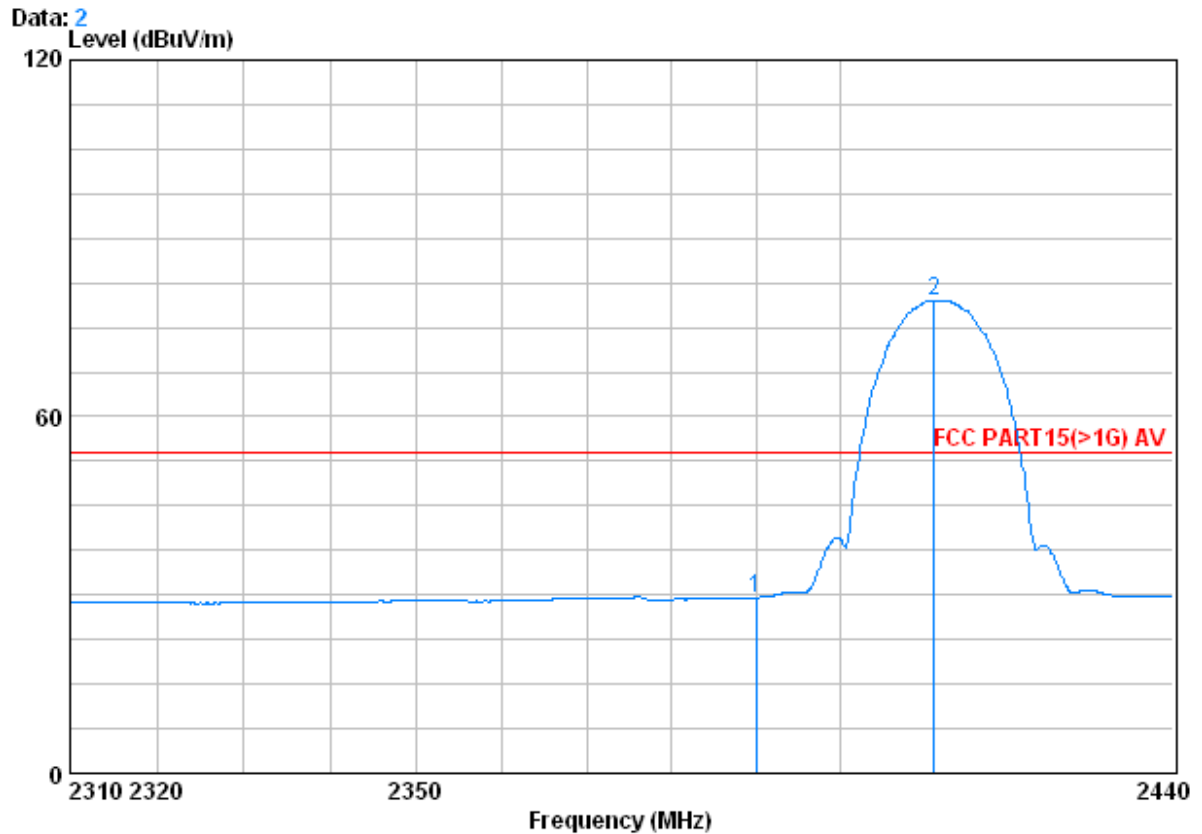


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 74 of 102

Test mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal
------------	---------	---------------	--------	---------	---------	------------



Condition : FCC PART15(>1G) AV 3m HORIZONTAL
Job No. : 2561IT
Mode : b 2412MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	33.93	29.57	54.00 -24.43
2 0	2411.270	2.99	32.54	39.86	83.88	79.55	54.00 25.55

"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."

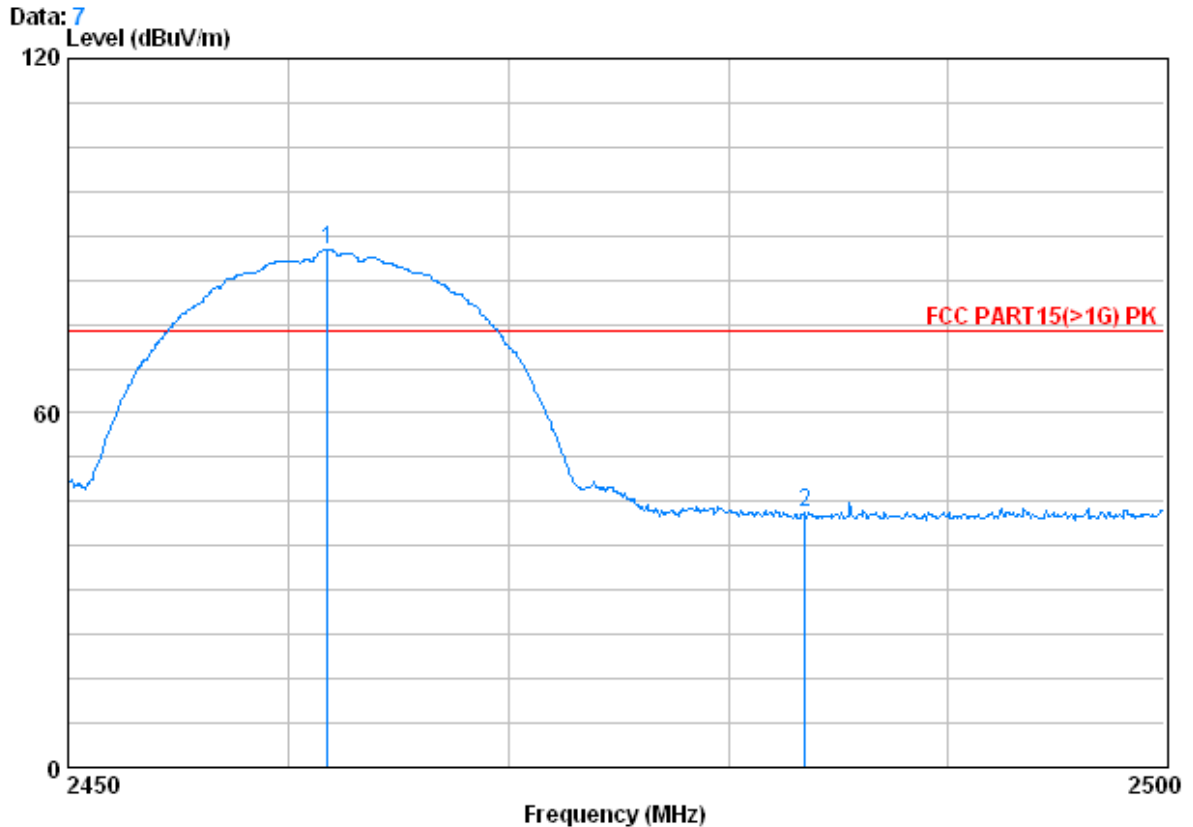


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 75 of 102

Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
------------	---------	---------------	---------	---------	------	----------



Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2561IT
Mode : b 2462MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 0	2461.750	3.02	32.64	39.91	91.89	87.64	74.00 13.64
2	2483.500	3.03	32.67	39.92	47.25	43.03	74.00 -30.97

"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."

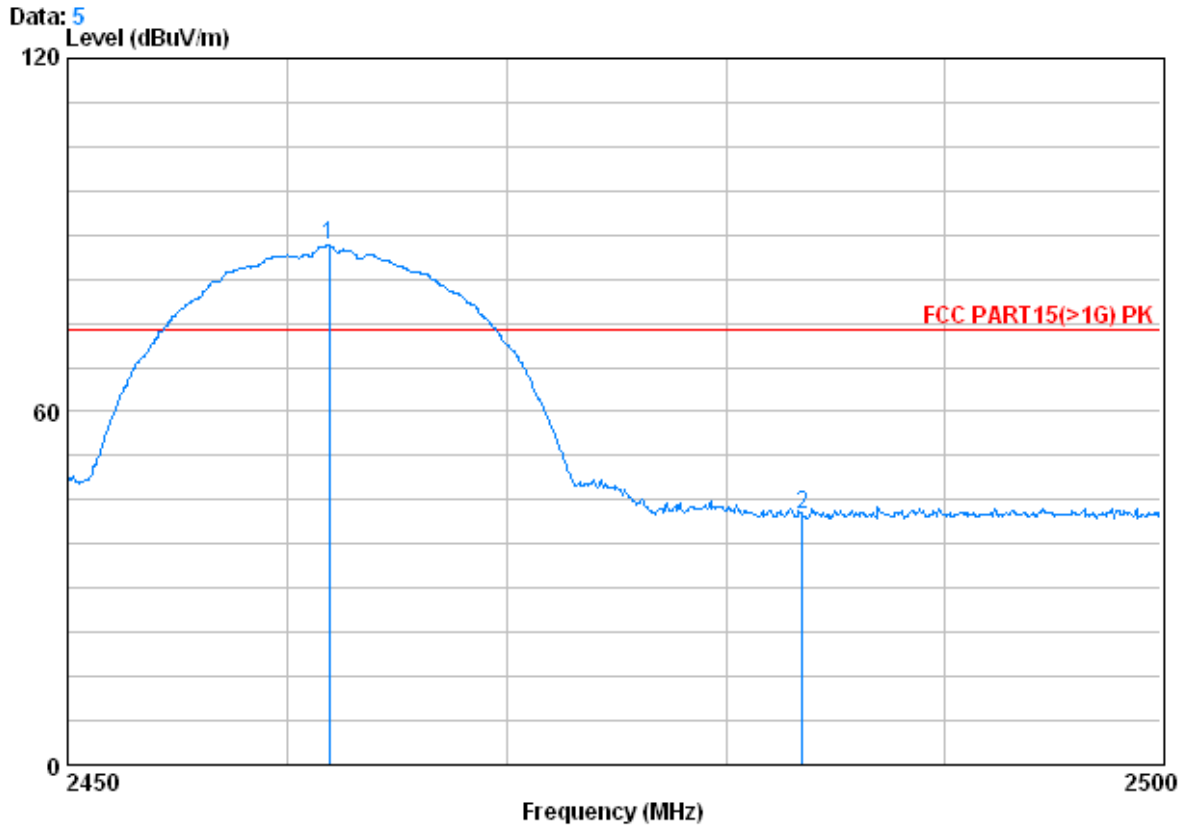


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 76 of 102

Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
------------	---------	---------------	---------	---------	------	------------



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2561IT

Mode : b 2462MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2461.900	3.02	32.64	39.91	92.40	88.15	74.00 14.15
2	2483.500	3.03	32.67	39.92	46.81	42.59	74.00 -31.41

"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."

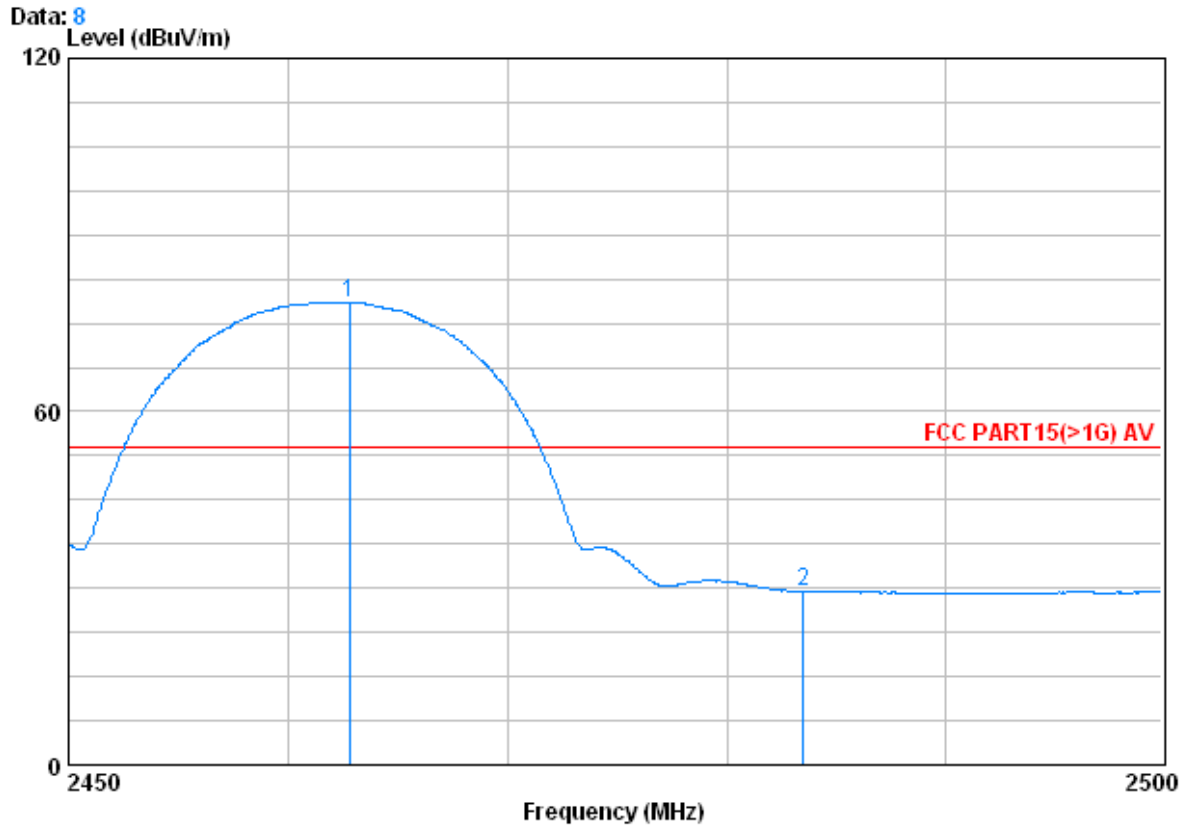


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 77 of 102

Test mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
------------	---------	---------------	---------	---------	---------	----------



Condition : FCC PART15(>1G) AV 3m VERTICAL
Job No. : 2561IT
Mode : b 2462MHz

	Freq	CableAntenna Loss	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2462.750	3.02	32.64	39.91	82.81	78.57	54.00 24.57
2	2483.500	3.03	32.67	39.92	33.65	29.43	54.00 -24.57



"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."

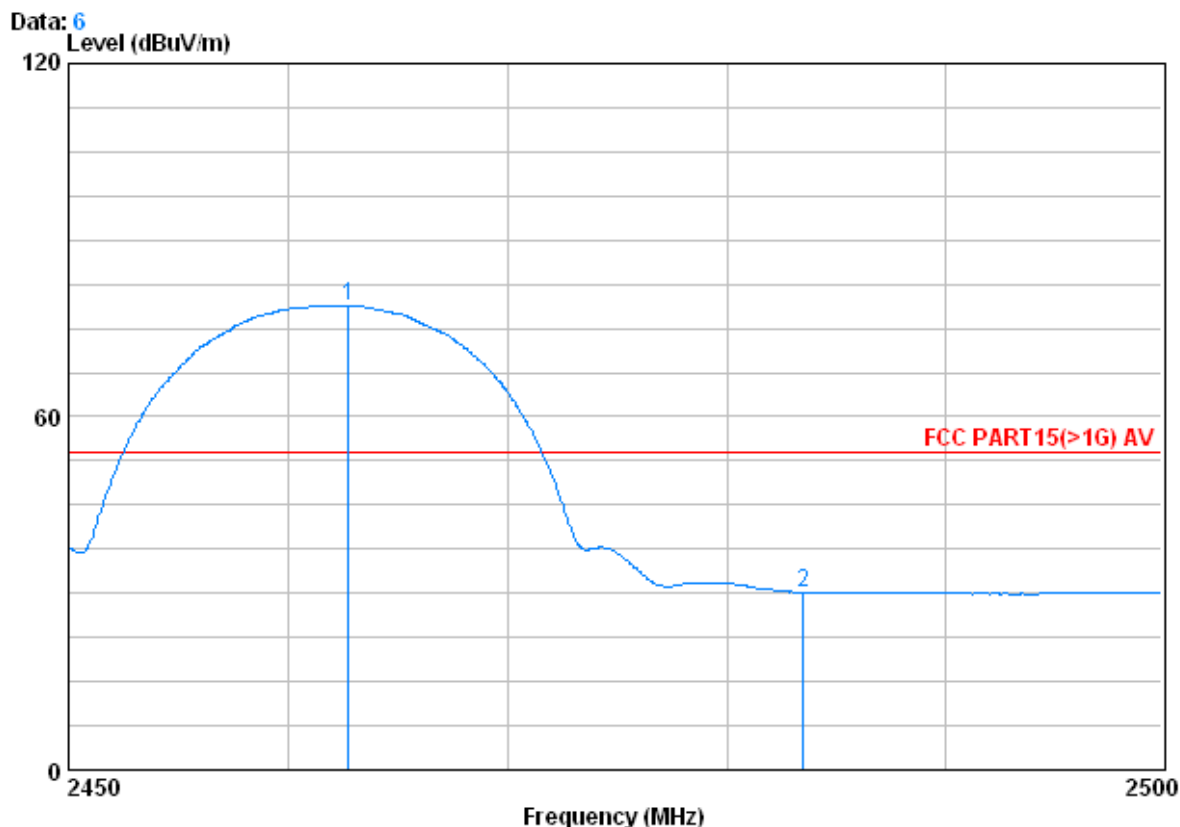


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 78 of 102

Test mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
------------	---------	---------------	---------	---------	---------	------------



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 2561IT

Mode : b 2462MHz

	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2462.700	3.02	32.64	39.91	83.13	54.00	24.88
2	2483.500	3.03	32.67	39.92	34.37	54.00	-23.85

"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."

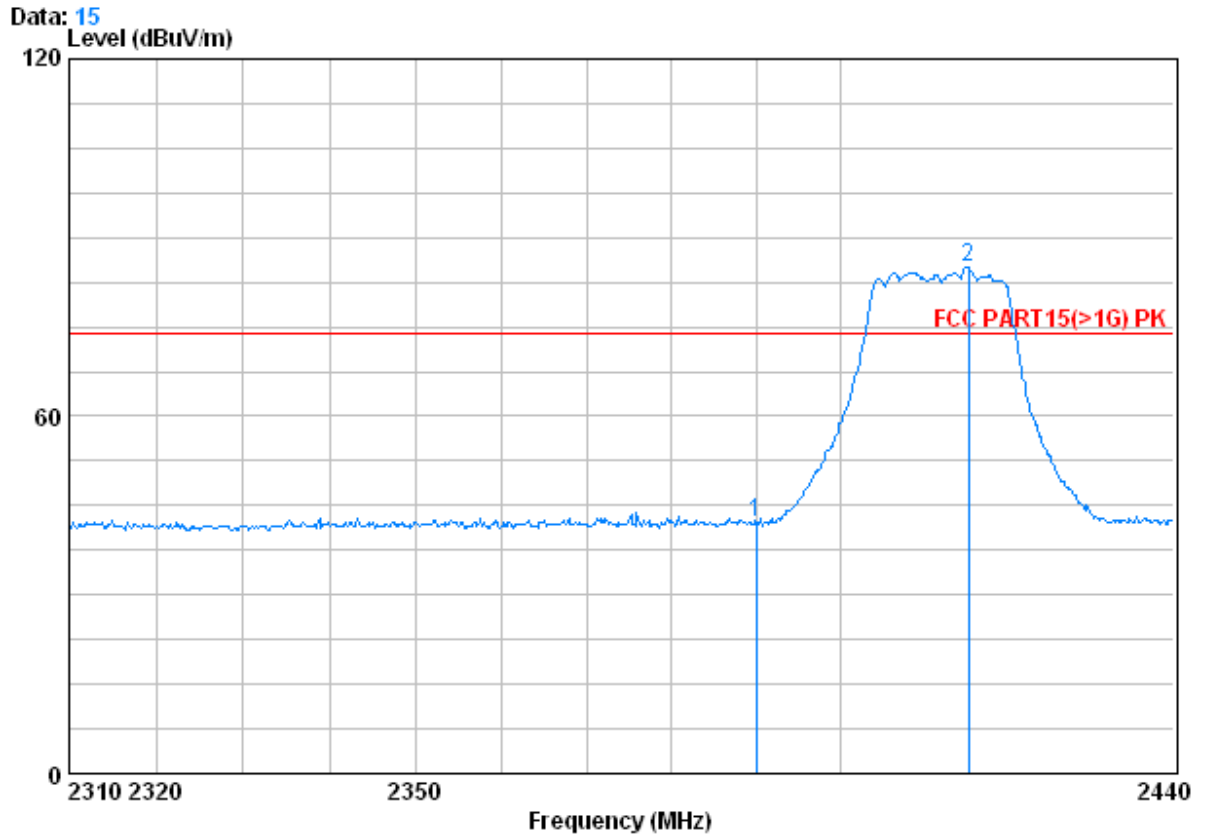


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 79 of 102

Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
------------	---------	---------------	--------	---------	------	----------



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 2561IT

Mode : g 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	46.55	42.20	74.00	-31.80
2 @	2415.300	2.99	32.54	39.86	89.19	84.86	74.00	10.86

"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."

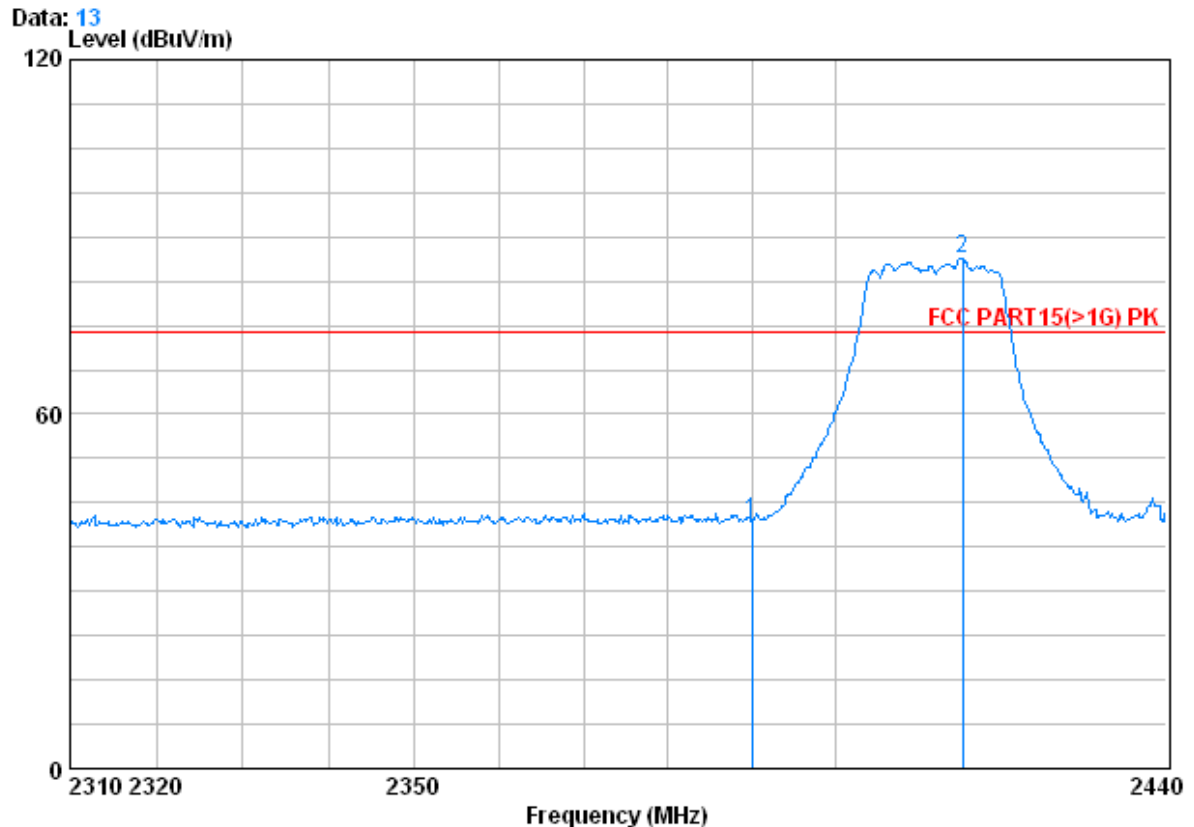


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 80 of 102

Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
------------	---------	---------------	--------	---------	------	------------



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2561IT

Mode : g 2412MHz

	Freq	CableAntenna Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	46.30	41.94	74.00	-32.06
2 @	2415.300	2.99	32.54	39.86	90.60	86.28	74.00	12.28

"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."

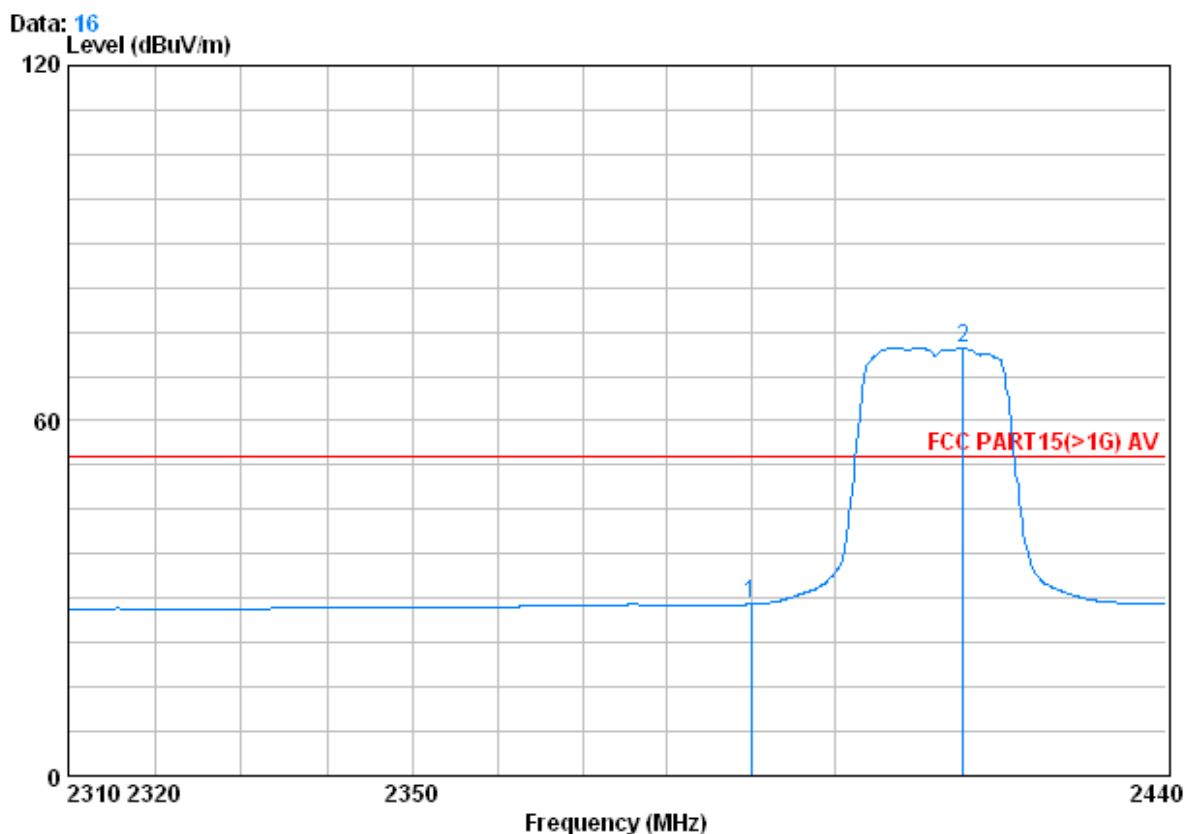


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 81 of 102

Test mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
------------	---------	---------------	--------	---------	---------	----------



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2561IT

Mode : g 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	33.35	28.99	54.00 -25.01
2 @	2415.430	2.99	32.54	39.86	76.67	72.34	54.00 18.34

"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."

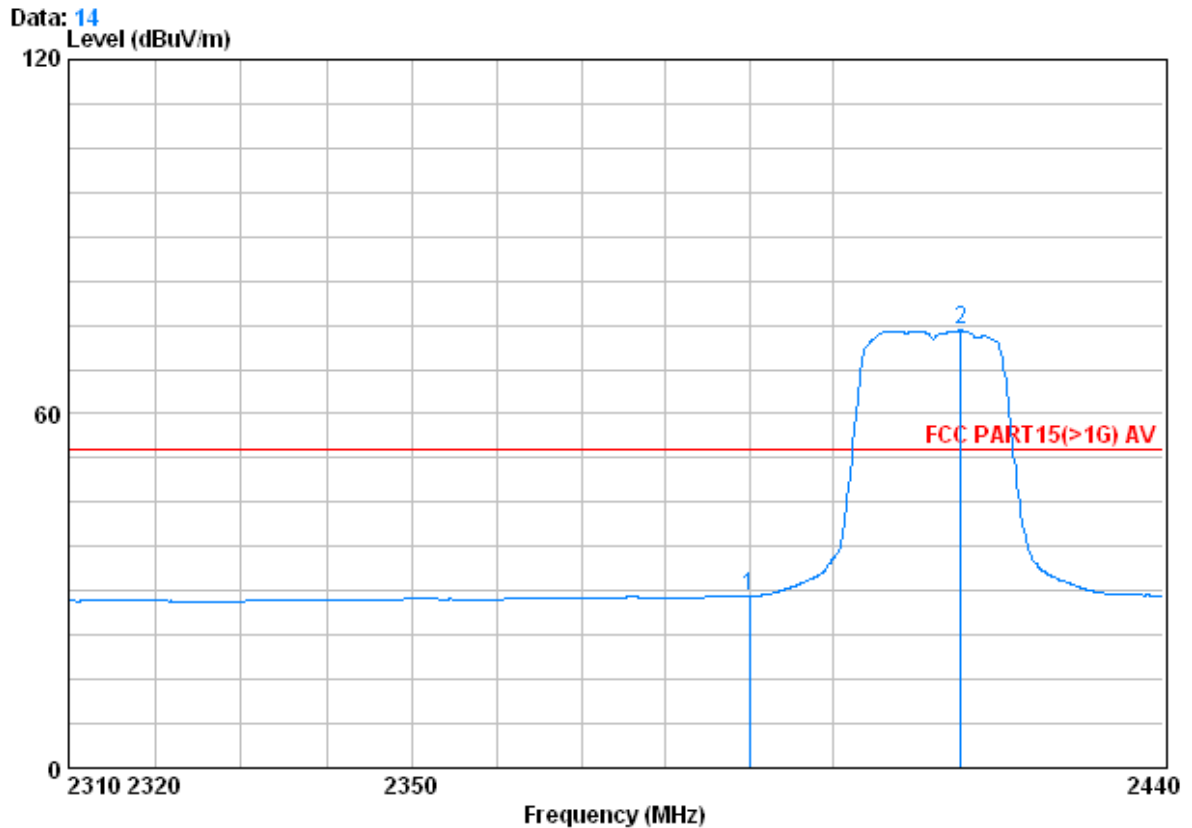


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 82 of 102

Test mode:	802.11g	Test channel:	Lowest	Remark:	Average	Horizontal
------------	---------	---------------	--------	---------	---------	------------



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 2561IT

Mode : g 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	33.48	29.12	54.00	-24.88
2	2415.430	2.99	32.54	39.86	78.42	74.09	54.00	20.09

"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."

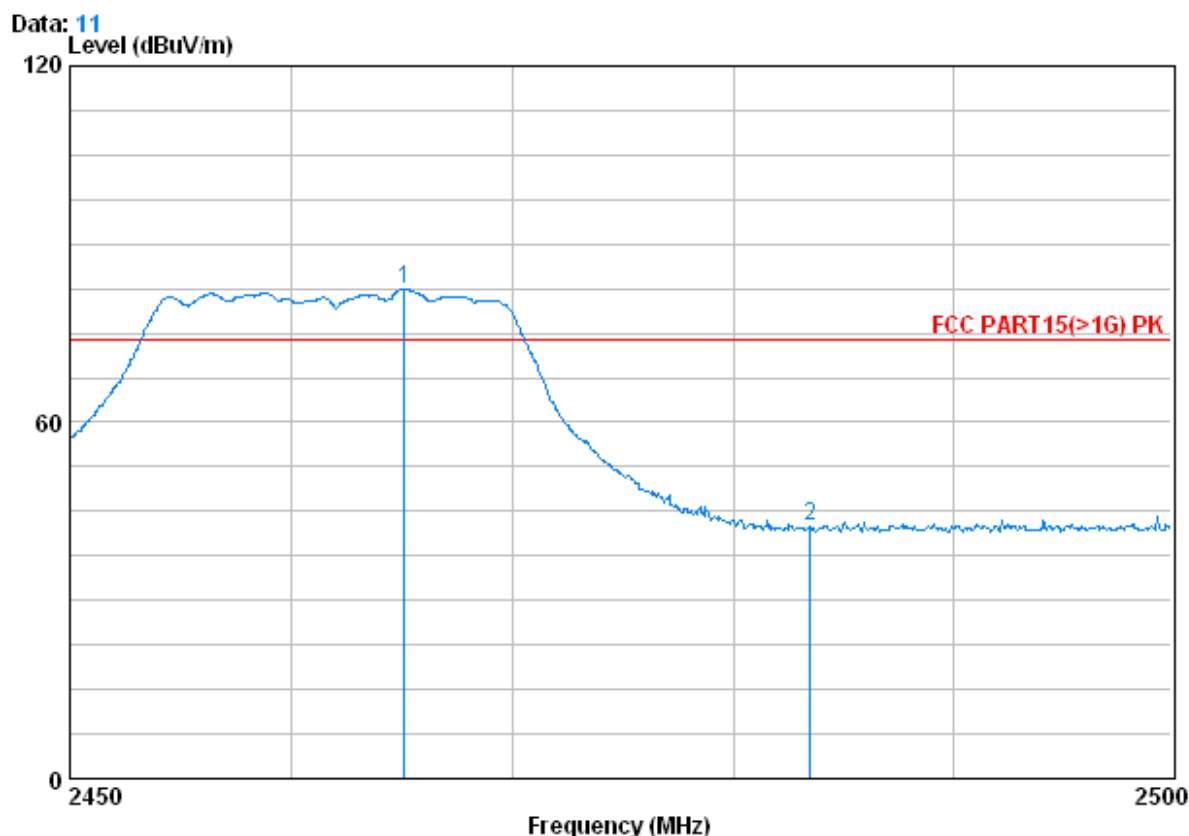


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 83 of 102

Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
------------	---------	---------------	---------	---------	------	----------



Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2561IT
Mode : g 2462MHz

	Freq	CableAntenna Loss	Antenna Factor	Preamplifier Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2465.100	3.02	32.64	39.91	86.74	82.50	74.00	8.50
2	2483.500	3.03	32.67	39.92	46.62	42.40	74.00	-31.60

"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."

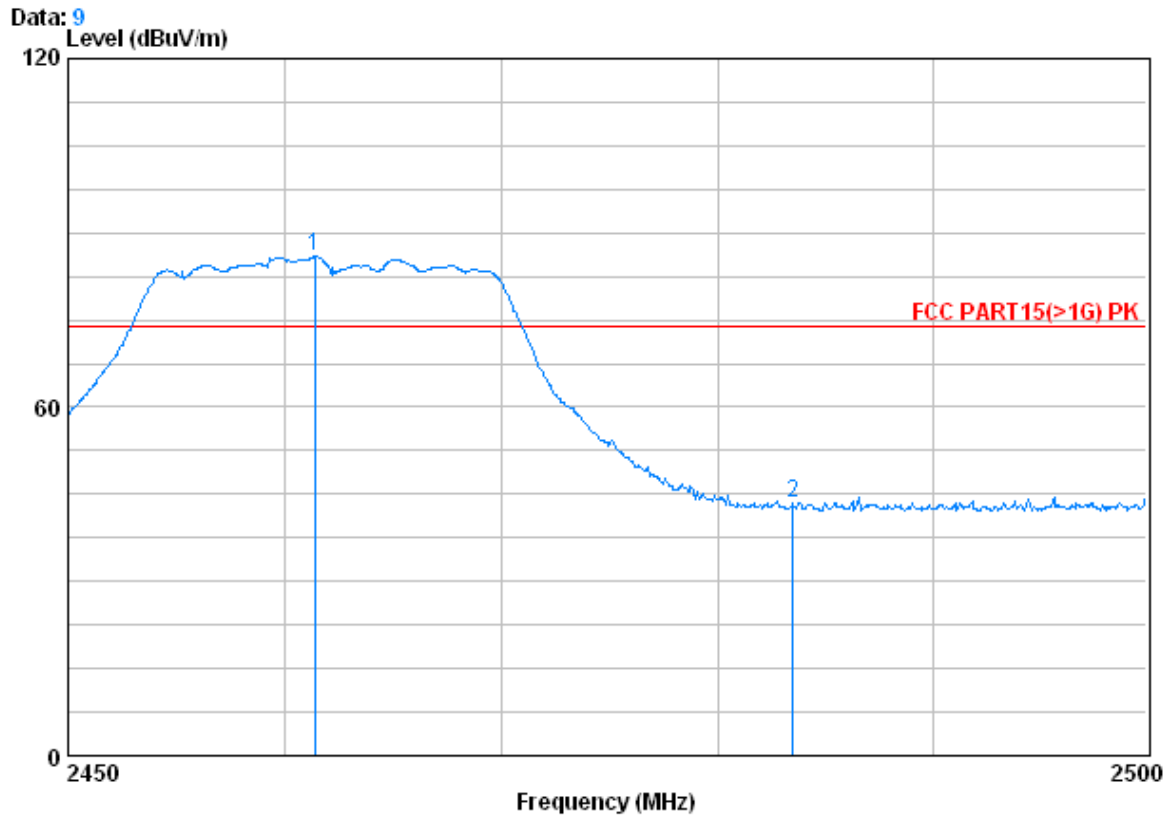


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 84 of 102

Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
------------	---------	---------------	---------	---------	------	------------



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2561IT

Mode : g 2462MHz

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @	2461.350	3.02	32.64	39.91	90.16	85.91	74.00	11.91
2	2483.500	3.03	32.67	39.92	47.58	43.36	74.00	-30.64

"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."



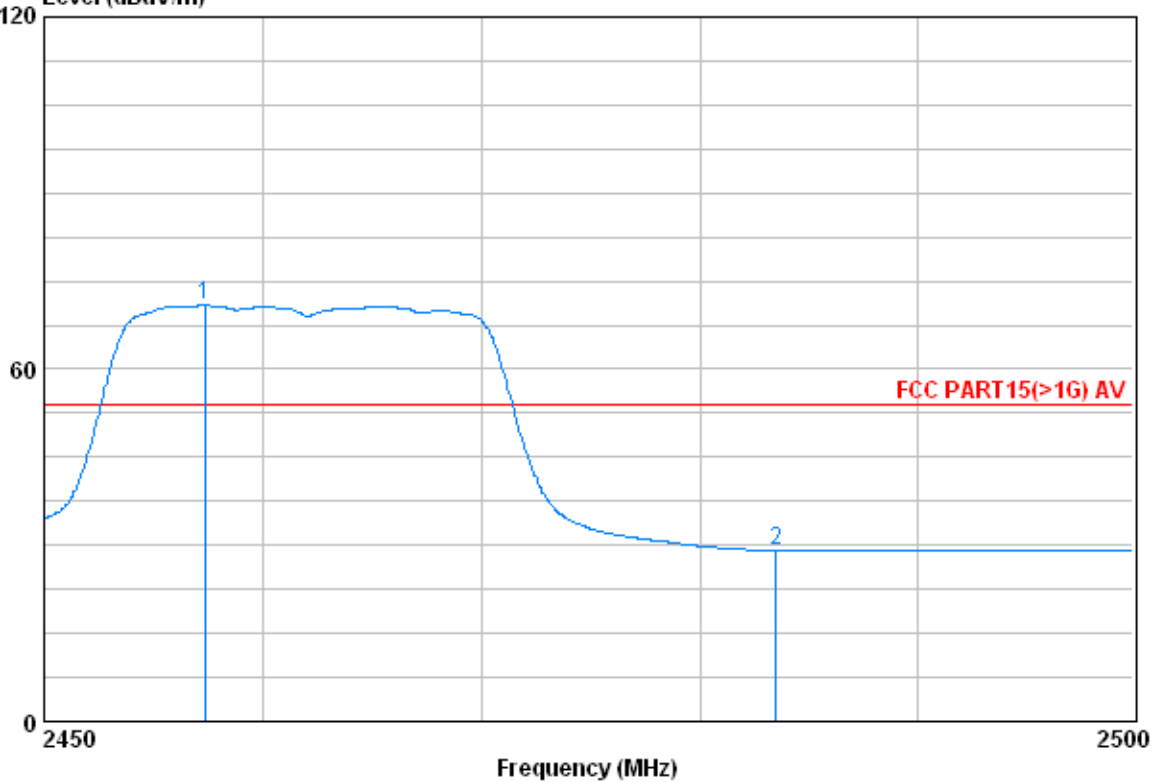
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 85 of 102

Test mode:	802.11g	Test channel:	Highest	Remark:	Average	Vertical
------------	---------	---------------	---------	---------	---------	----------

Data: 12
Level (dBuV/m)



Condition : FCC PART15(>1G) AV 3m VERTICAL
Job No. : 2561IT
Mode : g 2462MHz

	Freq	Cable&Antenna Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2457.300	3.02	32.64	39.91	75.08	70.83	54.00	16.83
2	2483.500	3.03	32.67	39.92	33.37	29.15	54.00	-24.85

"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."

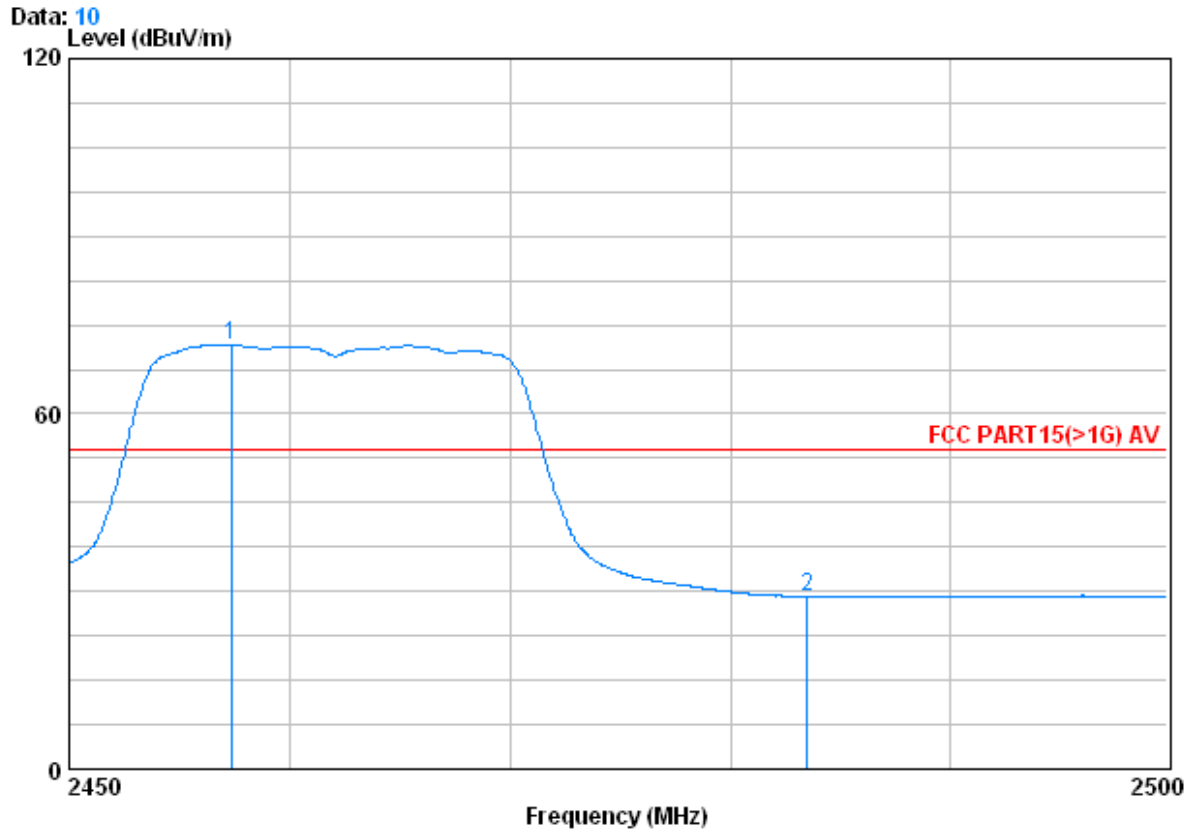


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 86 of 102

Test mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal
------------	---------	---------------	---------	---------	---------	------------



Condition : FCC PART15(>1G) AV 3m HORIZONTAL
Job No. : 2561IT
Mode : g 2462MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 @	2457.300	3.02	32.64	39.91	75.85	71.61	54.00 17.61
2	2483.500	3.03	32.67	39.92	33.35	29.13	54.00 -24.87

"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."

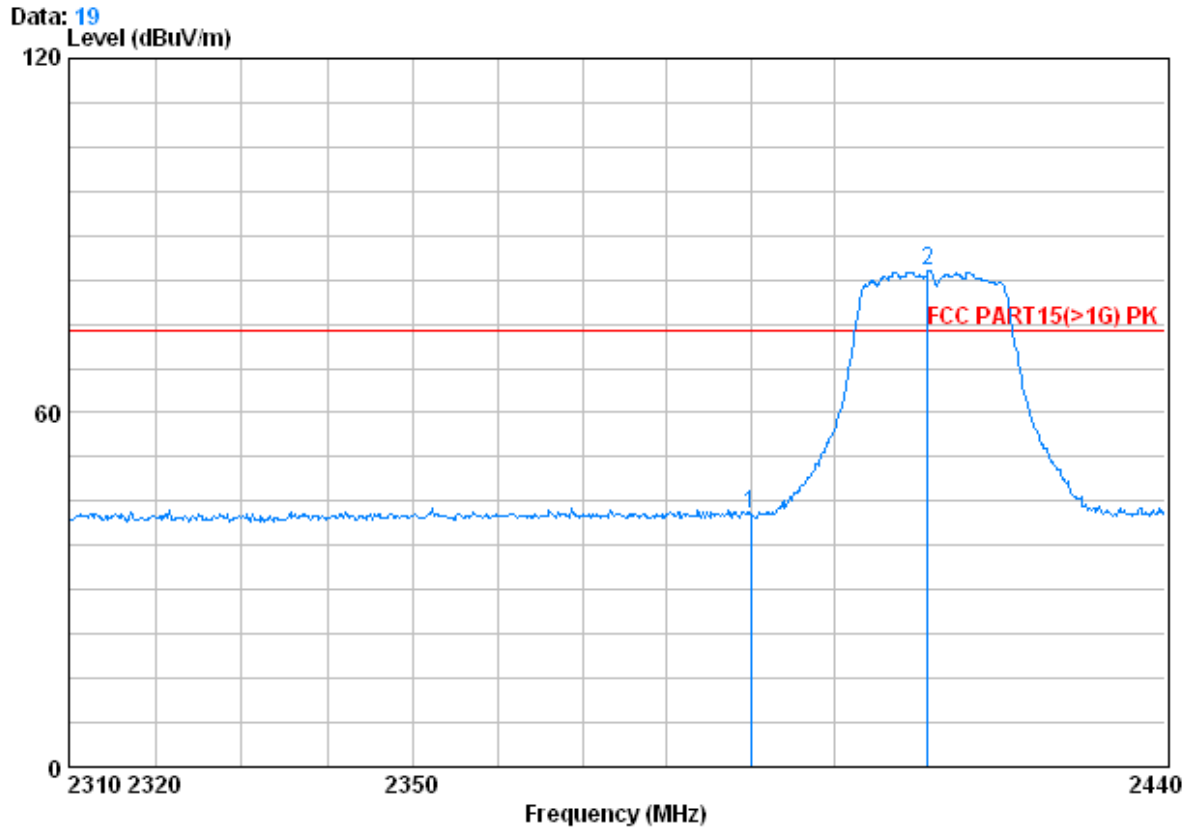


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 87 of 102

Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
------------	---------------	---------------	--------	---------	------	----------



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 2561IT

Mode : n HT20 2412MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	47.14	42.79	74.00 -31.21
2 @	2411.270	2.99	32.54	39.86	88.30	83.97	74.00 9.97



"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."

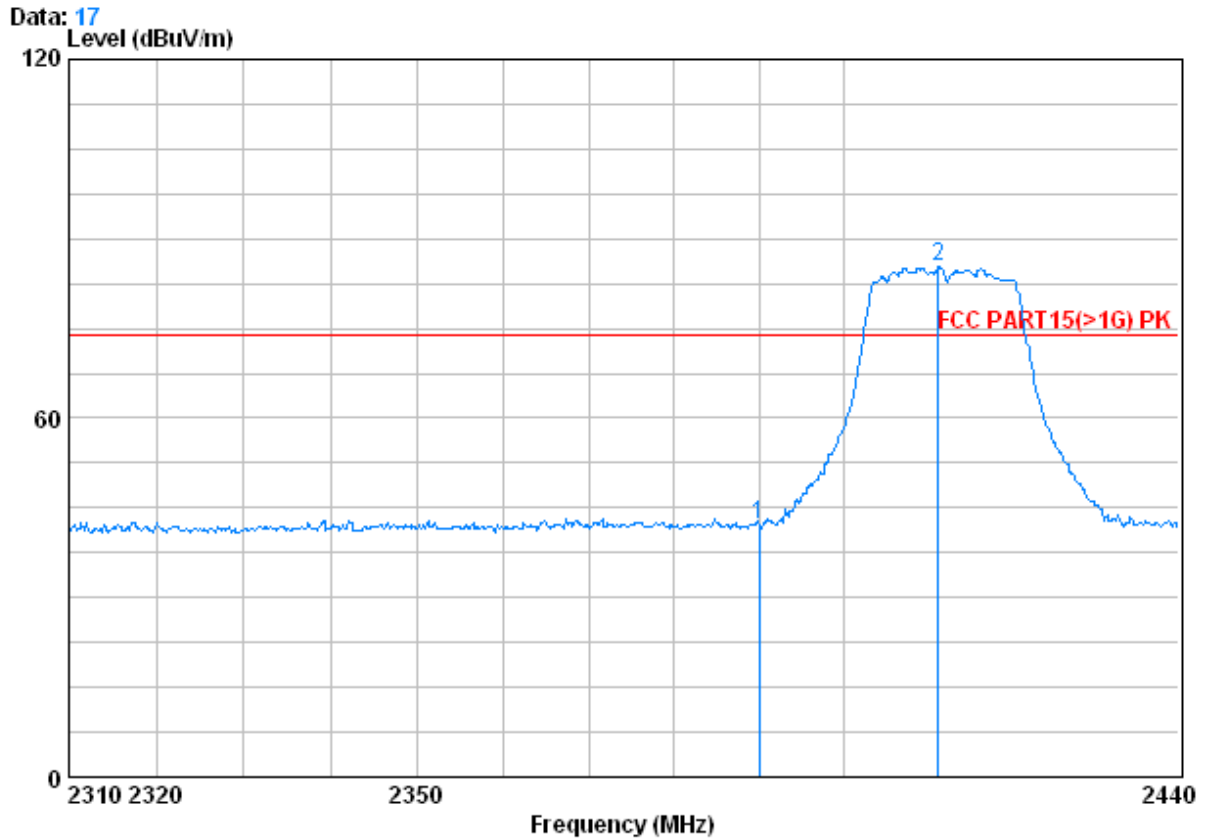


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 88 of 102

Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
------------	---------------	---------------	--------	---------	------	------------



Condition : FCC PART15(>1G) PK 3m HORIZONTAL
Job No. : 2561IT
Mode : n HT20 2412MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	46.49	42.14	74.00 -31.86
2 @	2411.270	2.99	32.54	39.86	89.53	85.20	74.00 11.20

"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."

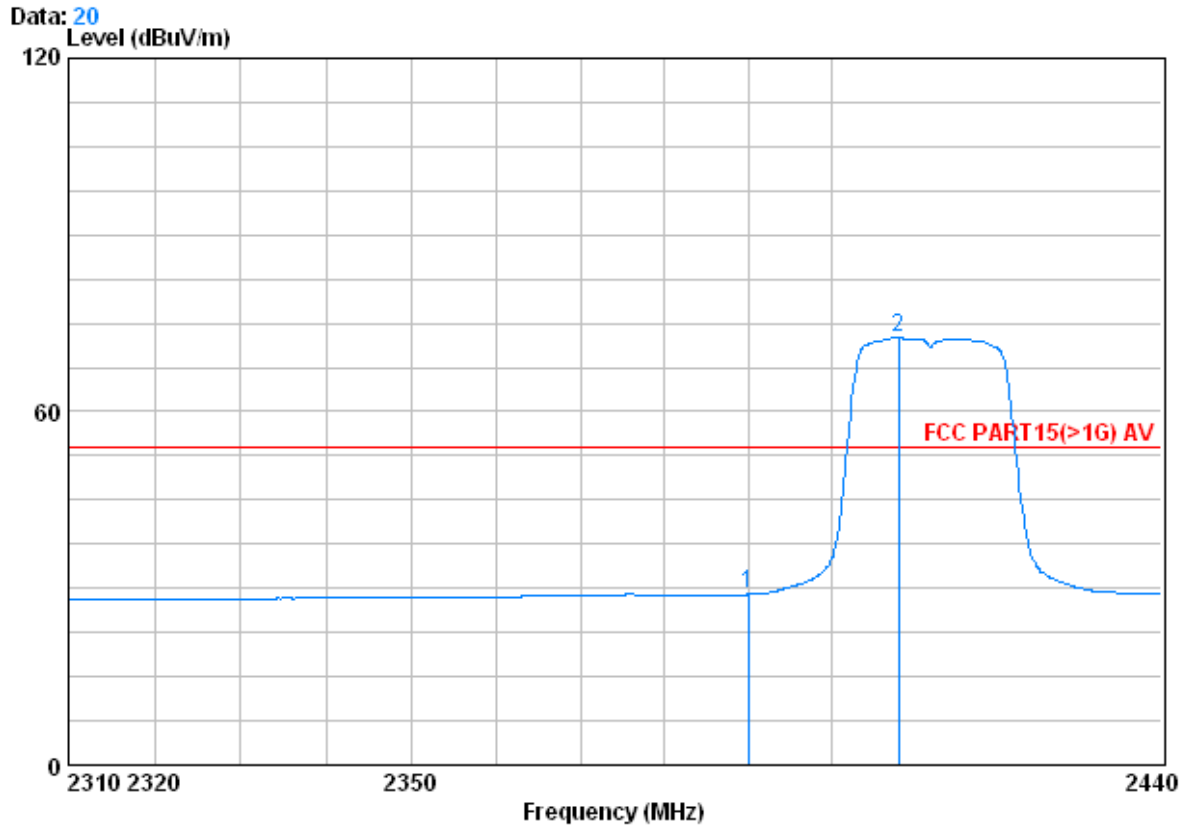


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 89 of 102

Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Vertical
------------	---------------	---------------	--------	---------	---------	----------



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2561IT

Mode : n HT20 2412MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	33.31	28.95	54.00	-25.05
2	2408.150	2.99	32.54	39.86	76.81	72.49	54.00	18.49

"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."

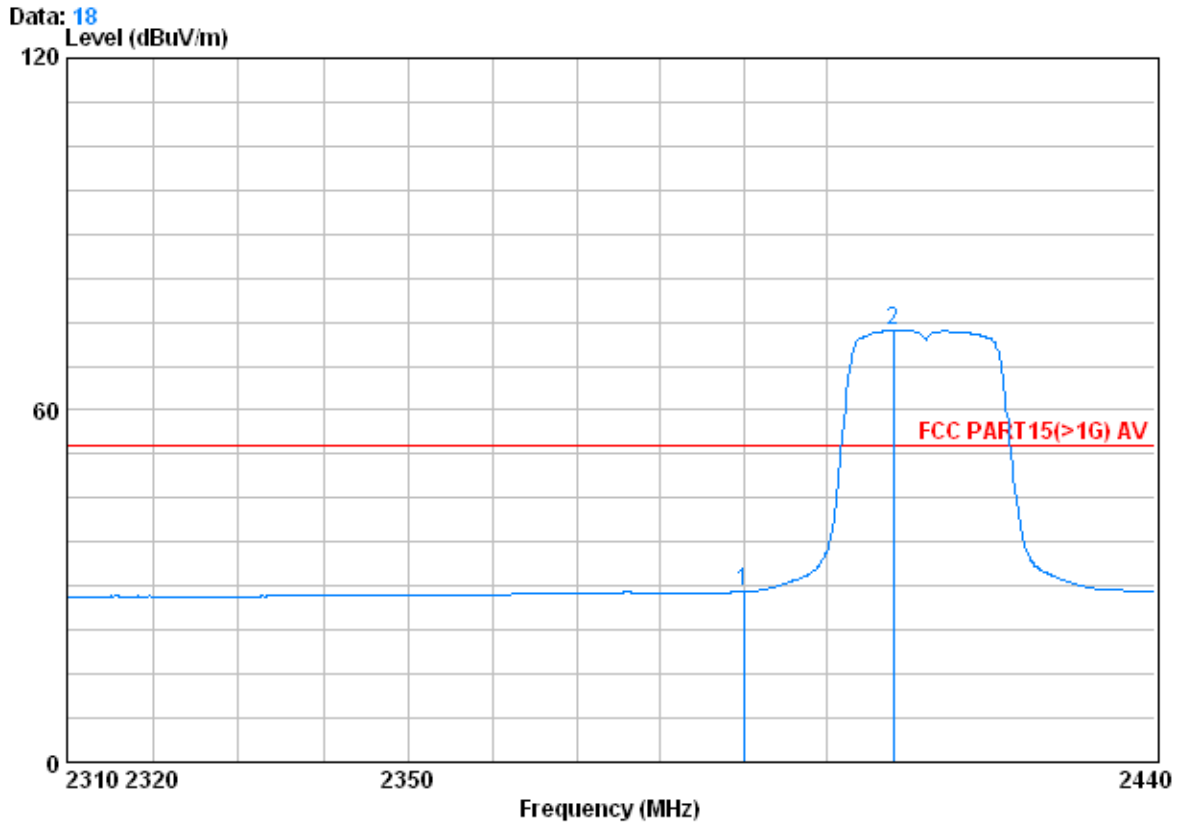


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 90 of 102

Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal
------------	---------------	---------------	--------	---------	---------	------------



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 2561IT

Mode : n HT20 2412MHz

	Freq	CableAntenna Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	33.40	29.04	54.00	-24.96
2	2408.150	2.99	32.54	39.86	77.94	73.61	54.00	19.61

"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."

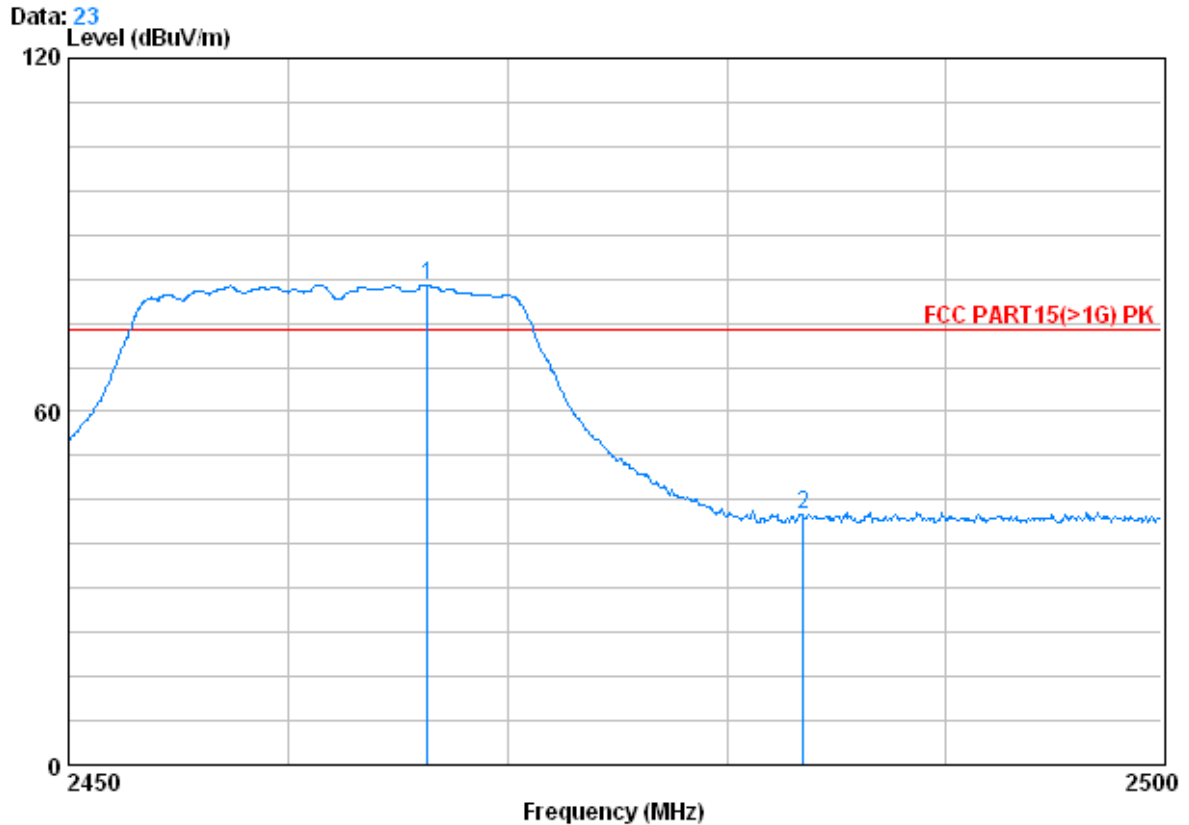


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 91 of 102

Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
------------	---------------	---------------	---------	---------	------	----------



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 2561IT

Mode : n HT20 2462MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2466.300	3.02	32.64	39.91	85.82	81.57	74.00 7.57
2	2483.500	3.03	32.67	39.92	46.70	42.48	74.00 -31.52

"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."



SGS-CSTC Standards Technical Services Ltd.

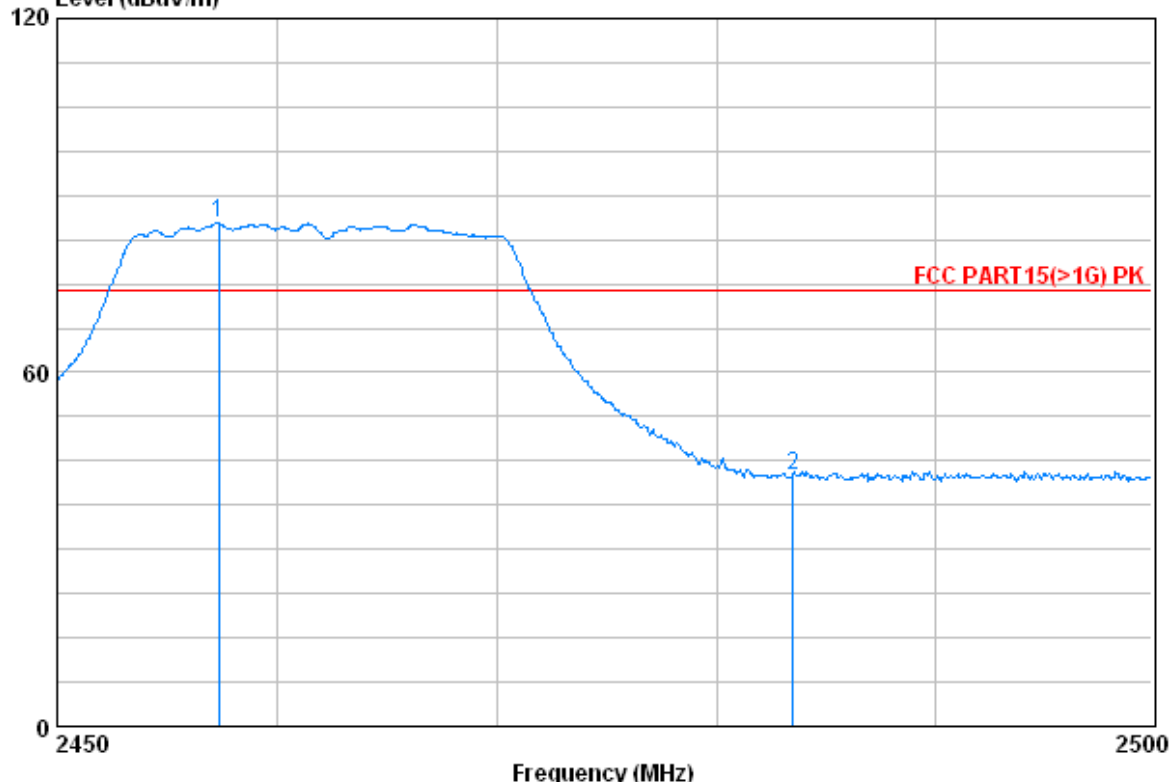
Report No.: SZEM120500256101

Page: 92 of 102

Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
------------	---------------	---------------	---------	---------	------	------------

Data: 21

Level (dBuV/m)



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 2561IT

Mode : n HT20 2462MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2457.300	3.02	32.64	39.91	89.52	85.27	74.00 11.27
2	2483.500	3.03	32.67	39.92	46.66	42.44	74.00 -31.56

"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."

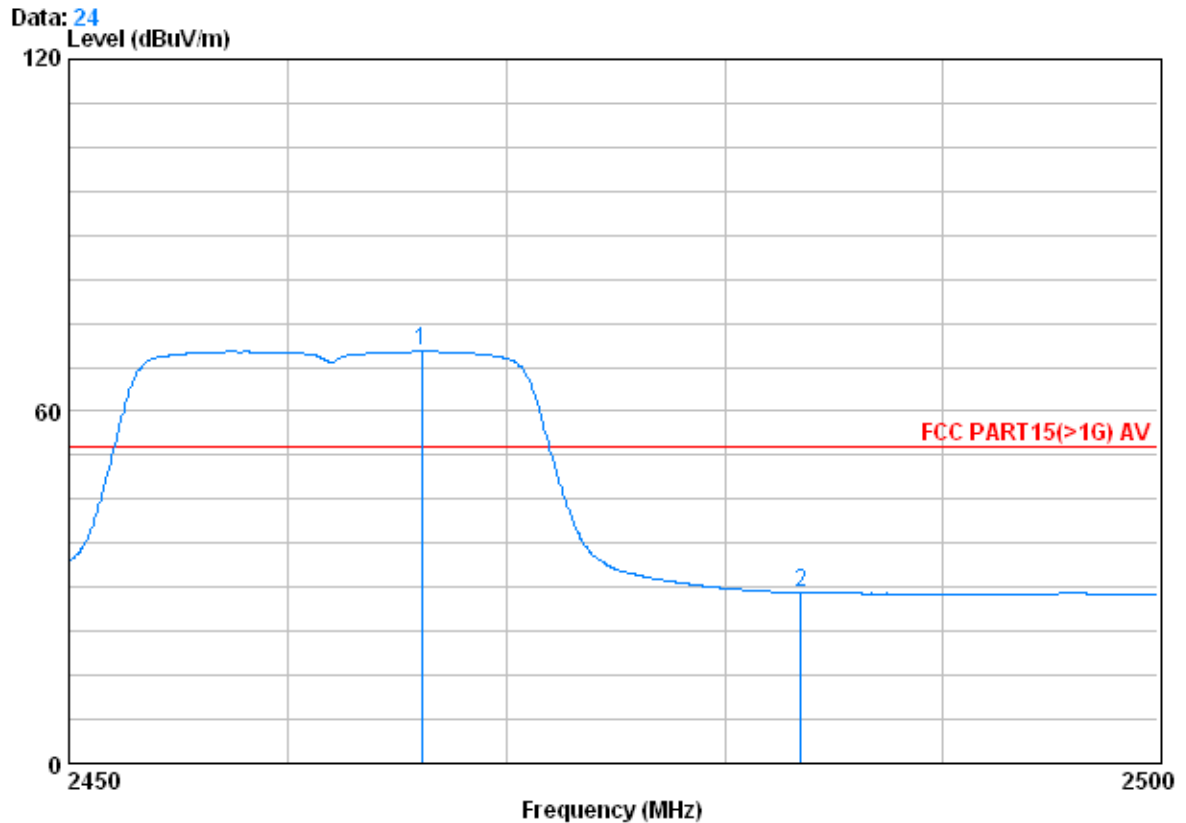


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 93 of 102

Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Vertical
------------	---------------	---------------	---------	---------	---------	----------



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2561IT

Mode : n HT20 2462MHz

	Freq	CableAntenna Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @	2466.100	3.02	32.64	39.91	74.48	70.23	54.00	16.23
2	2483.500	3.03	32.67	39.92	33.34	29.12	54.00	-24.88

"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."

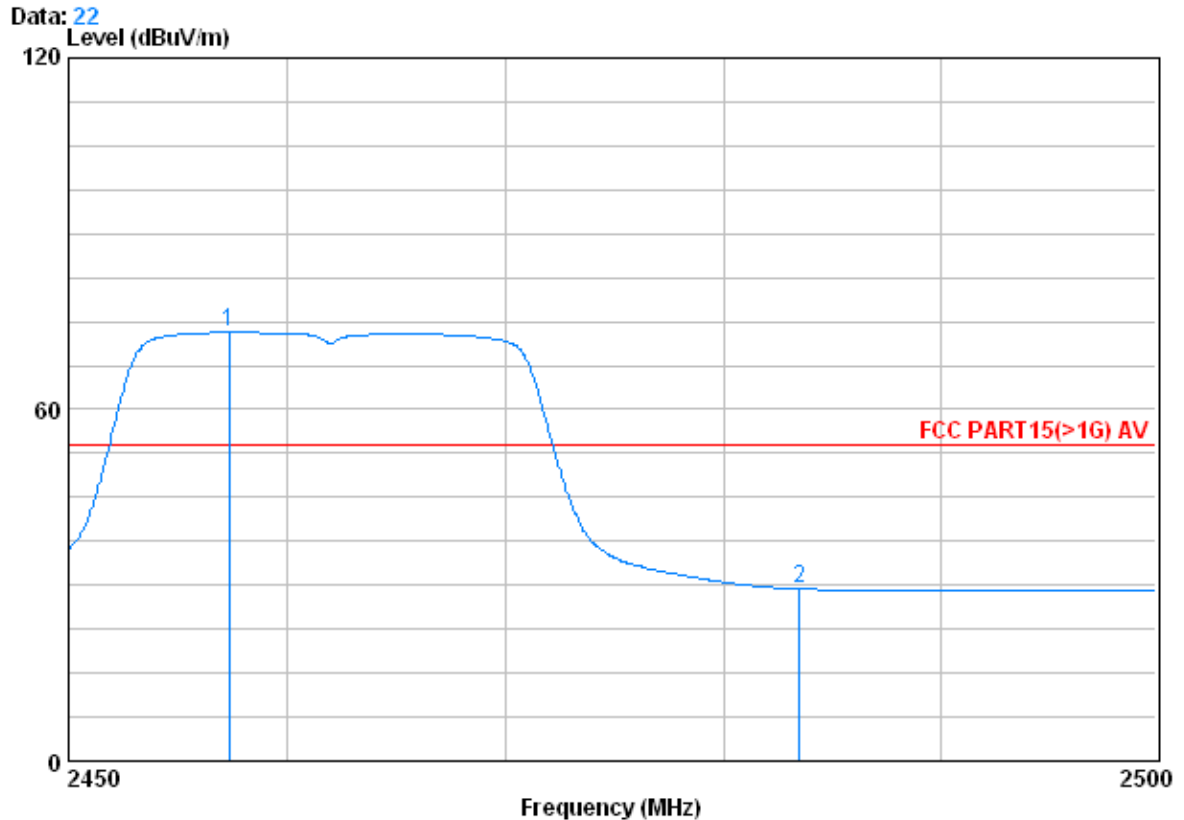


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 94 of 102

Test mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
------------	---------------	---------------	---------	---------	---------	------------



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 2561IT

Mode : n HT20 2462MHz

	Freq	CableAntenna Loss	Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2457.300	3.02	32.64	39.91	77.52	73.28	54.00	19.28
2	2483.500	3.03	32.67	39.92	33.58	29.36	54.00	-24.64

"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."

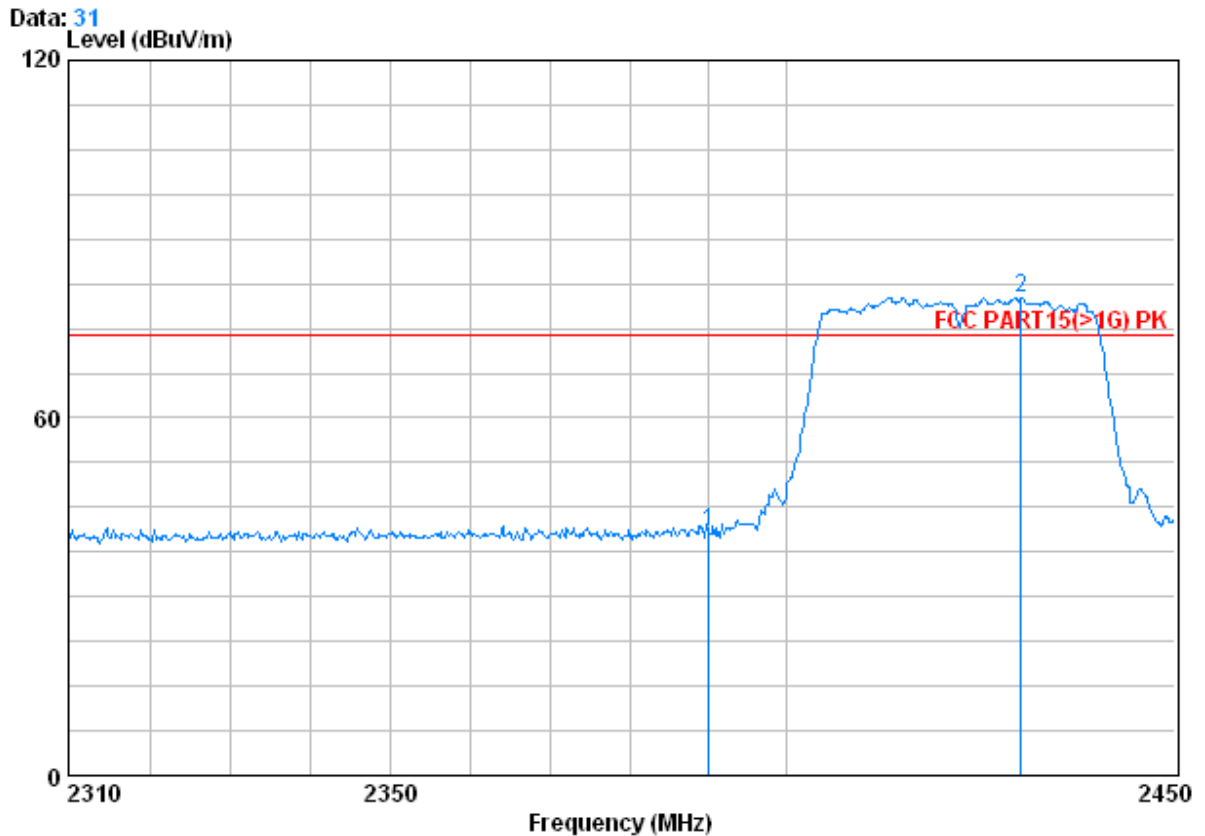


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 95 of 102

Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
------------	---------------	---------------	--------	---------	------	----------



Condition : FCC PART15(>1G) PK 3m VERTICAL
Job No. : 2561IT
Mode : n HT40 2422MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	45.21	40.86	74.00 -33.14
2 0	2430.120	3.00	32.58	39.88	84.46	80.16	74.00 6.16

"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."

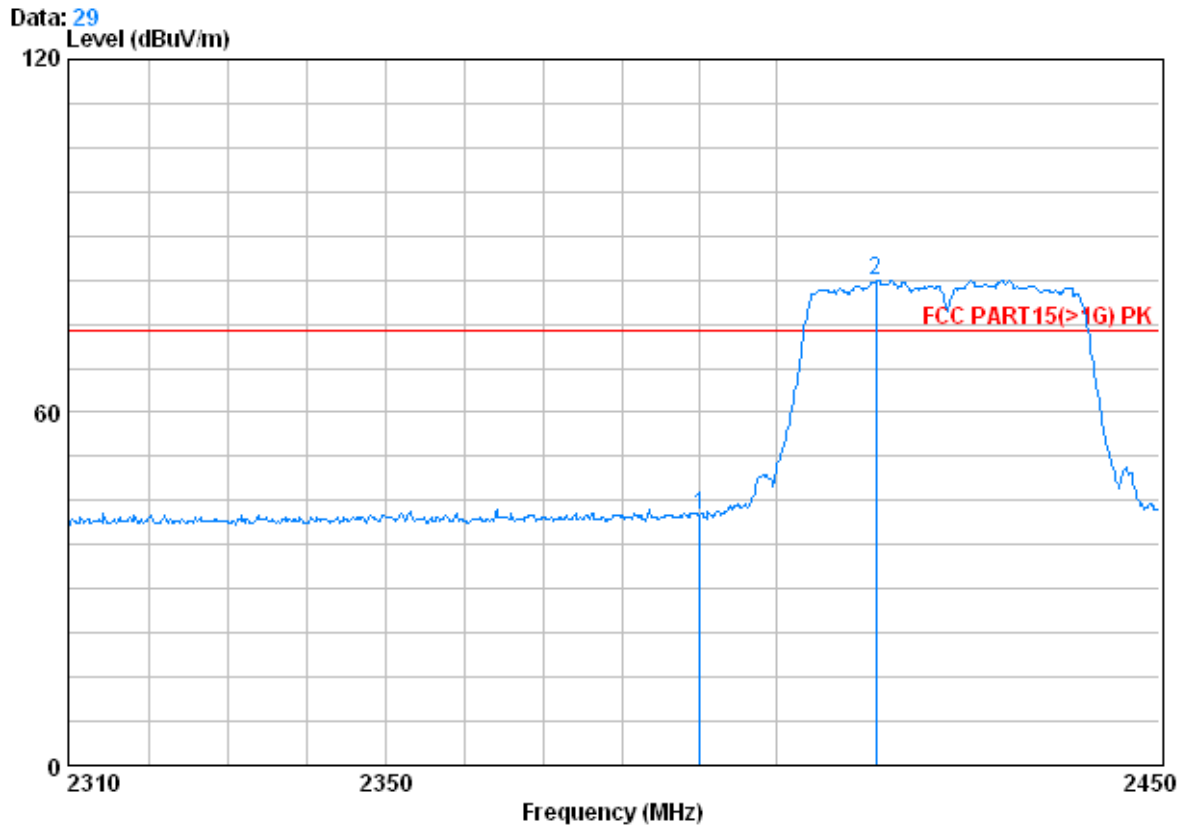


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 96 of 102

Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
------------	---------------	---------------	--------	---------	------	------------



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 25611T

Mode : n HT40 2422MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	46.85	42.49	74.00 -31.51
2 0	2412.900	2.99	32.54	39.86	86.68	82.35	74.00 8.35

"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."

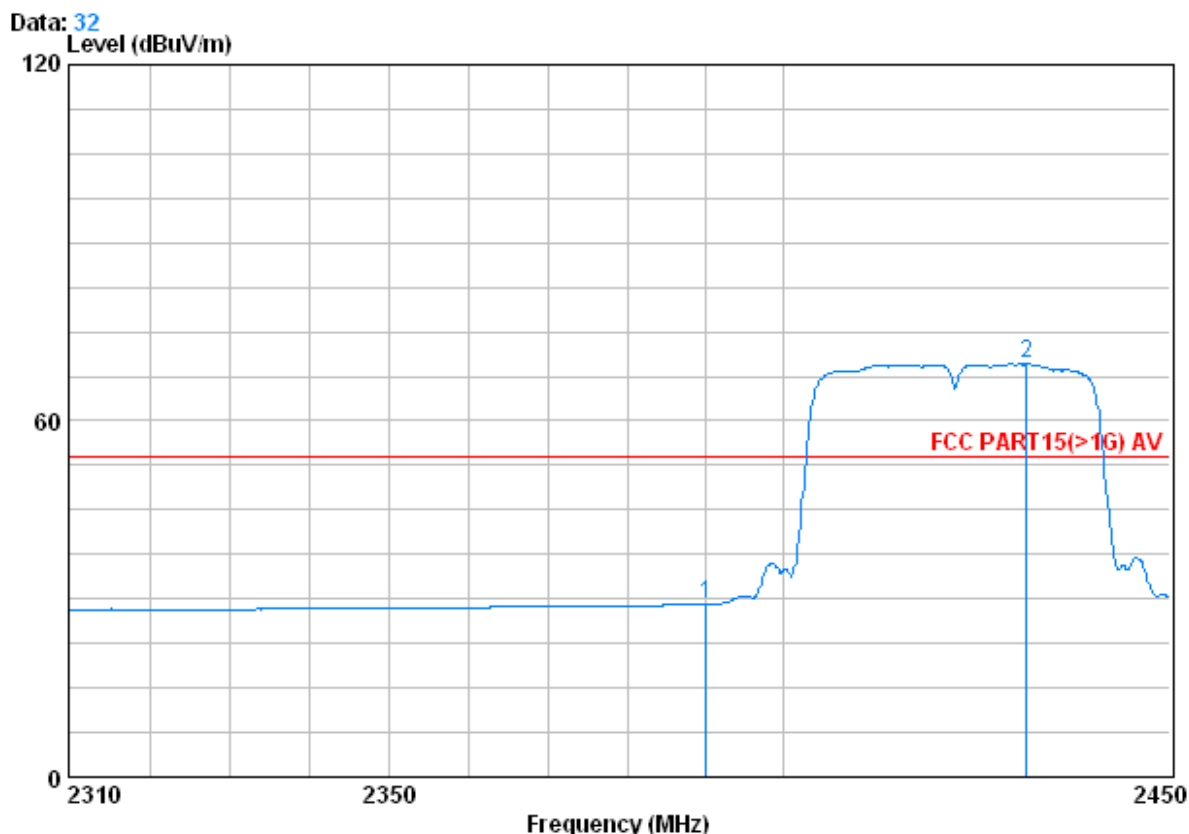


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 97 of 102

Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Vertical
------------	---------------	---------------	--------	---------	---------	----------



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 2561IT

Mode : n HT40 2422MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	33.50	29.14	54.00	-24.86
2	2431.380	3.00	32.58	39.88	73.85	69.55	54.00	15.55



"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."

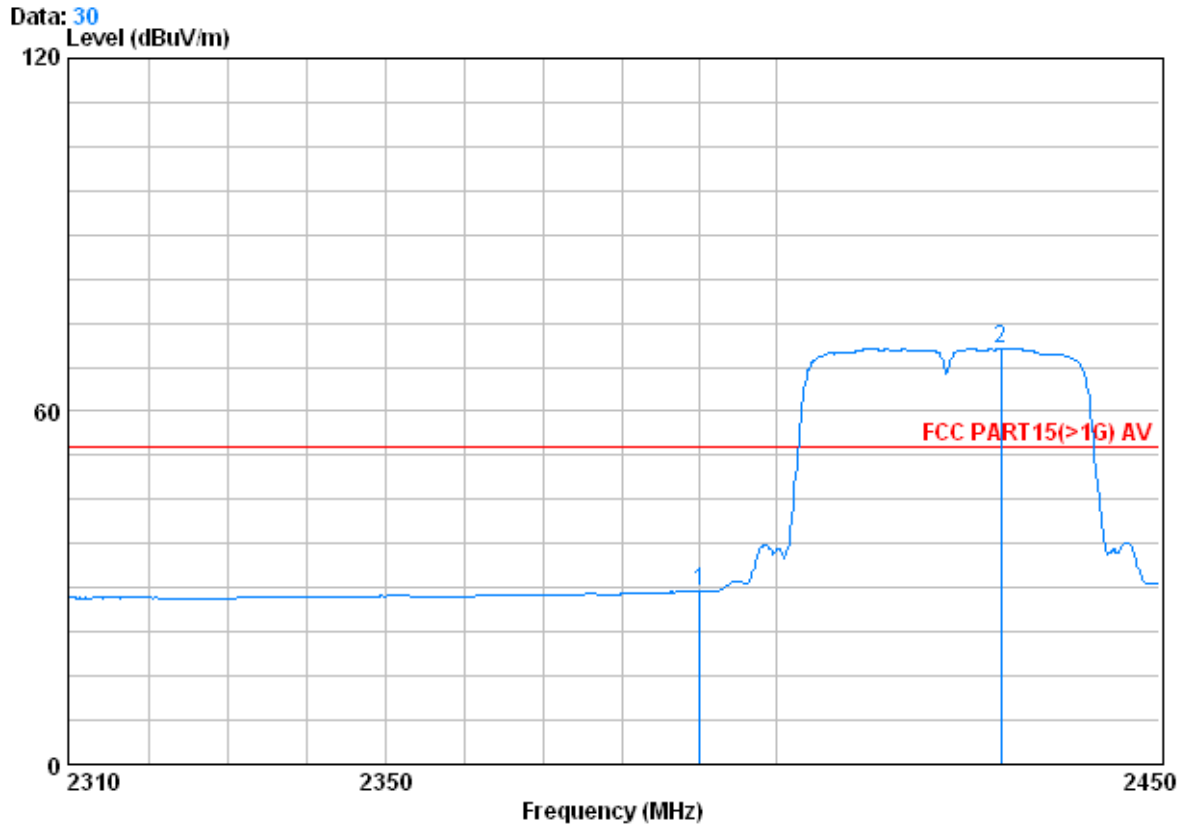


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 98 of 102

Test mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Horizontal
------------	---------------	---------------	--------	---------	---------	------------



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 25611T

Mode : n HT40 2422MHz

	Freq	CableAntenna Loss	Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	2.98	32.51	39.85	33.70	29.34	54.00	-24.66
2	2429.140	3.00	32.58	39.88	74.94	70.64	54.00	16.64

"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."

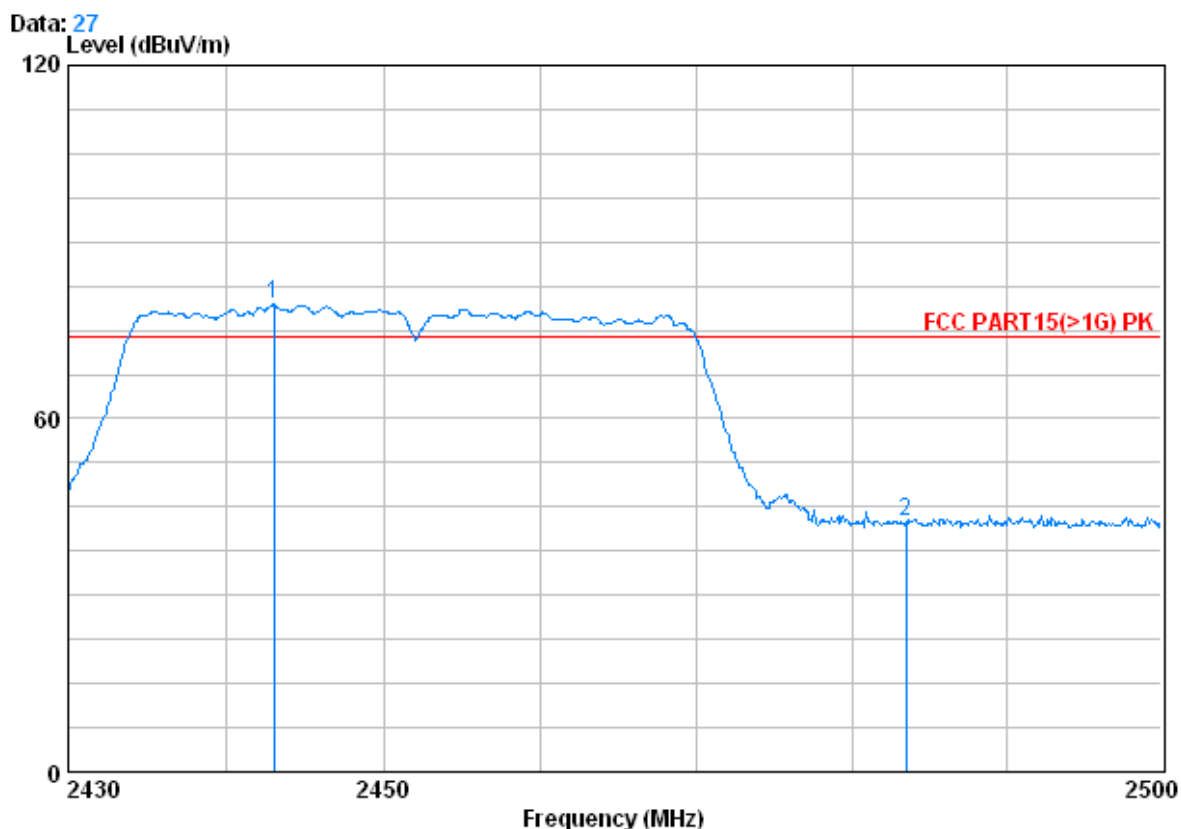


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 99 of 102

Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
------------	---------------	---------------	---------	---------	------	----------



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 2561IT

Mode : n HT40 2452MHz

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 X	2443.020	3.01	32.61	39.89	83.70	79.43	74.00	5.43
2	2483.500	3.03	32.67	39.92	46.77	42.55	74.00	-31.45

"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."

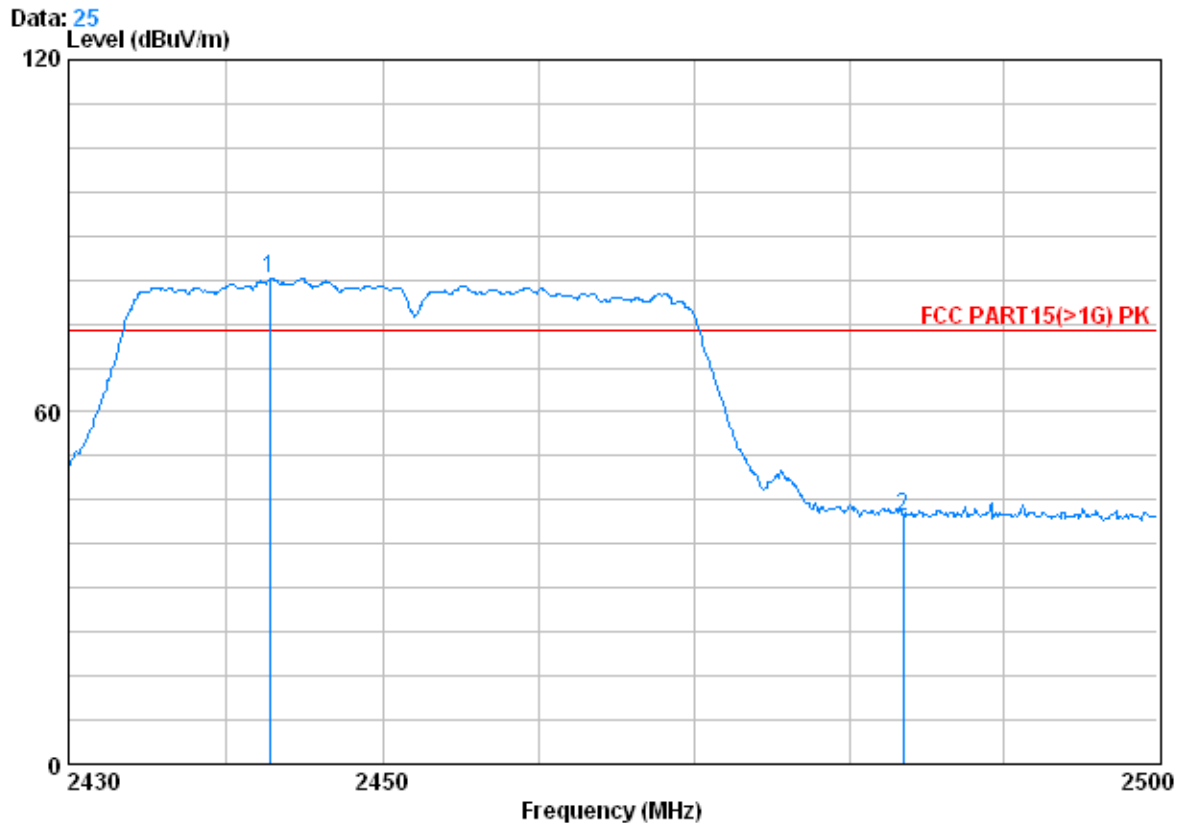


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 100 of 102

Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
------------	---------------	---------------	---------	---------	------	------------



Condition : FCC PART15(>1G) PK 3m HORIZONTAL
Job No. : 2561IT
Mode : n HT40 2452MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2442.810	3.01	32.61	39.89	86.92	82.64	74.00	8.64
2	2483.500	3.03	32.67	39.92	46.55	42.33	74.00	-31.67

"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."

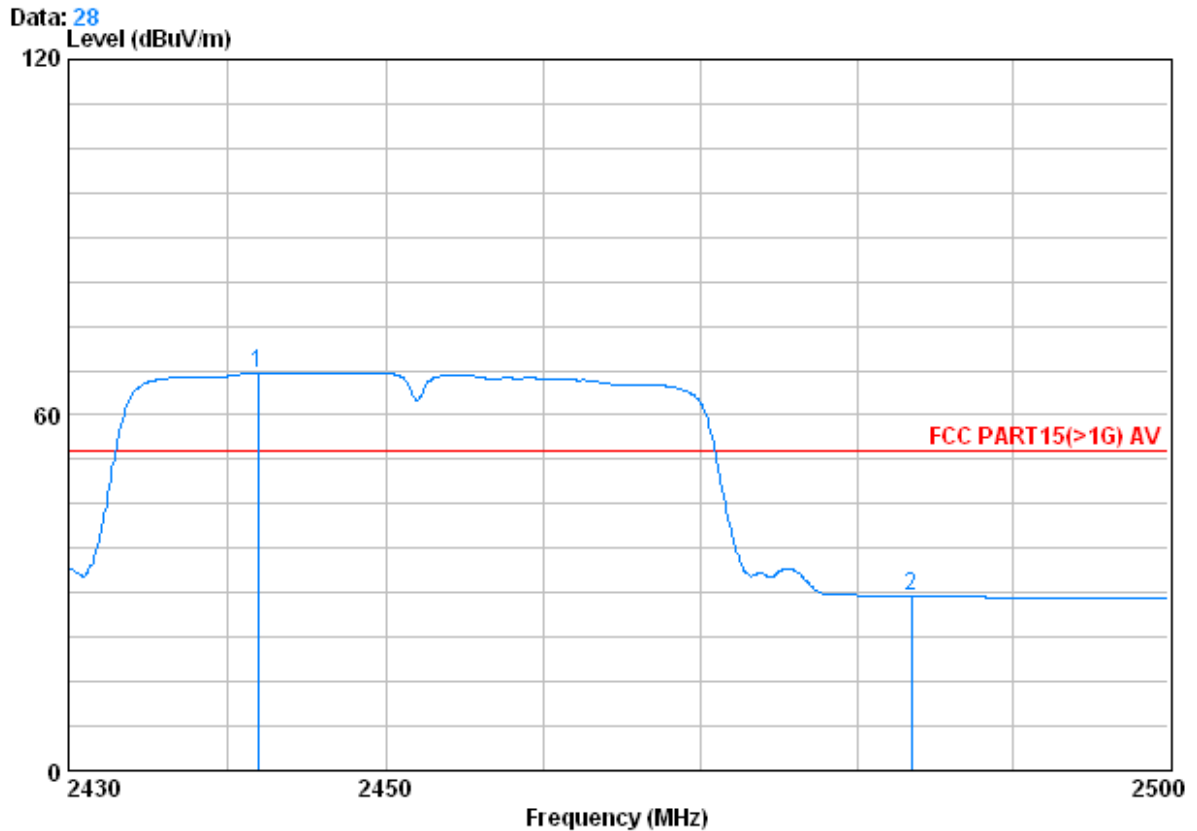


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 101 of 102

Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Vertical
------------	---------------	---------------	---------	---------	---------	----------



Condition : FCC PART15(>1G) AV 3m VERTICAL
Job No. : 2561IT
Mode : n HT40 2452MHz

	Freq	Cable Loss	Antenna Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2441.900	3.01	32.61	39.89	71.44	67.17	54.00	13.17
2	2483.500	3.03	32.67	39.92	33.60	29.39	54.00	-24.61

"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."

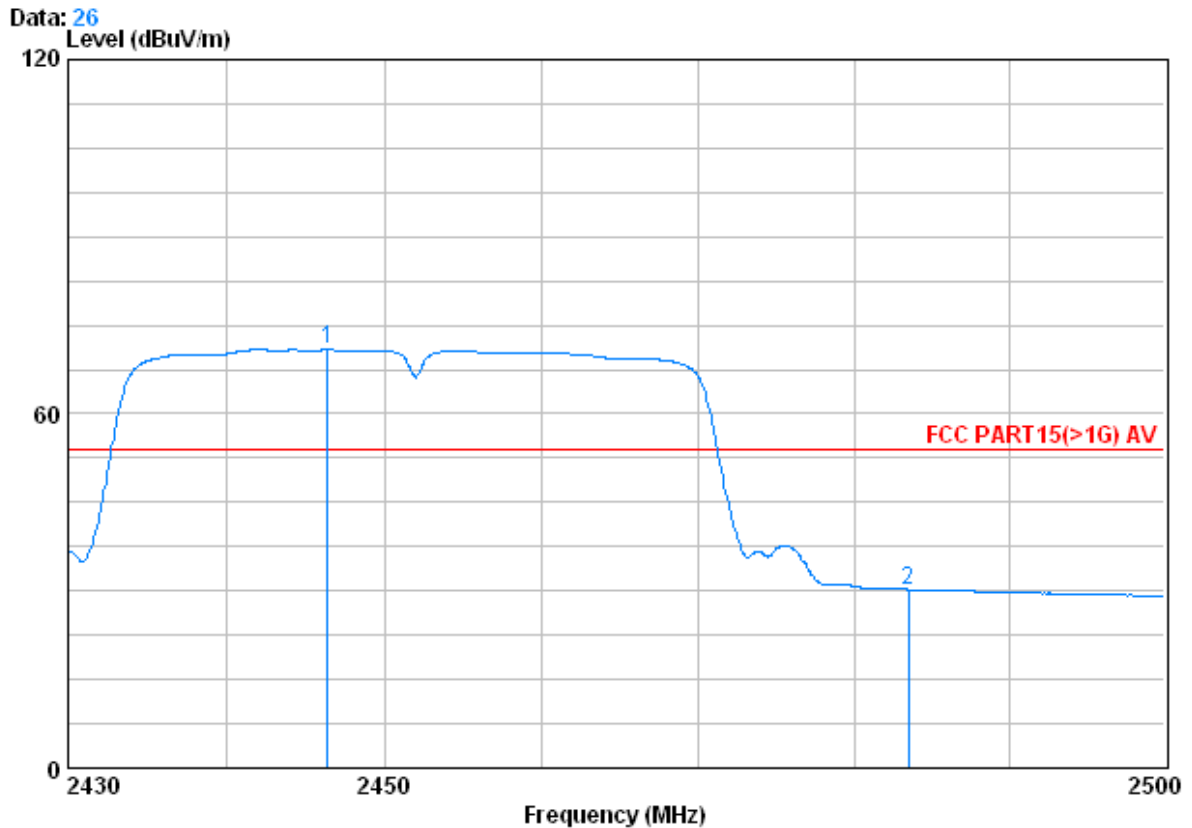


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM120500256101

Page: 102 of 102

Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal
------------	---------------	---------------	---------	---------	---------	------------



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 2561IT

Mode : n HT40 2452MHz

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
		Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2446.380	3.01	32.61	39.89	75.13	70.85	54.00 16.85
2	2483.500	3.03	32.67	39.92	34.43	30.21	54.00 -23.79

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

"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."