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Report No.: SZEM180600485002

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FCC TEST REPORT

Application No:SZEM1806004850RGApplicant:Fibocom Wireless Inc.

Address of Applicant 5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen,

China

Manufacturer: Fibocom Wireless Inc.

Address of Manufacturer 5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen,

China

Factory: Shenzhen Eternity Technology Co.,Ltd

Address of Factory 1F,2F,4F Building A2, Yingzhan Industrial Zone, Longtian Community,

Longtian Road, Pingshan District, Shenzhen, Guangdong Province, P.R.

China

Product Name: LTE Module

Model No.(EUT): SC806-AM

Trade Mark: Fibocom

FCC ID: ZMOSC806AM

Standards: 47 CFR Part 15, Subpart C

Test Method KDB 558074 D01 DTS Meas Guidance v04

ANSI C63.10 (2013)

Date of Receipt: 2018-07-08

Date of Test: 2018-07-10 to 2018-07-29

Date of Issue: 2018-08-13

Test Result: PASS *

Authorized Signature:

Derole yang

Derek Yang

Wireless 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.

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



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2 Version

Revision Record						
Version Chapter Date Modifier Remark						
01		2018-08-13		Original		

Authorized for issue by:		
Tested By	Nike Mu	2018-08-13
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	2018-08-13
	(David Chen) /Reviewer	Date



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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious 47 CFR Part 15, Subpart C Section Emissions 15.205/15.209		ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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4 General Information

4.1 Client Information

Applicant:	Fibocom Wireless Inc.			
Address of Applicant:	5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen, China			
Manufacturer:	Fibocom Wireless Inc.			
Address of Manufacturer:	5/F, Tower A, Technology Building II, 1057 Nanhai Avenue, Shenzhen, China			
Factory:	Shenzhen Eternity Technology Co.,Ltd			
Address of Factory:	1F,2F,4F Building A2, Yingzhan Industrial Zone, Longtian Community, Longtian Road, Pingshan District, Shenzhen, Guangdong Province, P.R. China			

4.2 General Description of EUT

Duradicat Massac	LTE Madula	
Product Name:	LTE Module	
Model No.:	SC806-AM	
Trade Mark:	Fibocom	
Hardware Version:	V1.0.1	
Software Version:	19060.1000.00.12.20.06	
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Operation Frequency:	IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels	
Charline Numbers.	IEEE 802.11n HT40: 7 Channels	
Channel Separation:	5MHz	
	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)	
Type of Modulation:	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)	
Type of Modulation:	IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM,	
	QPSK,BPSK)	
Sample Type:	LTE Module	
Antenna Type:	Monopole Antenna	
Antenna Gain:	2.5dBi	
Power Supply	DC3.85V	



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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 eac	h of channe	el (802.11n HT4	40)			
Channel	Frequency	Channel	Frequency	Channel	Frequency		
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	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:

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



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4.3 Test Environment and Mode

Operating Environment:					
Temperature:	25.0 °C				
Humidity:	50 % RH				
Atmospheric Pressure:	101.30 KPa				
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

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.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCC

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

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

	5 '	
No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
		±4.5dB (30MHz-1GHz)
4	Radiated Spurious emission test	±4.8dB (1GHz-25GHz)
5	Conduct emission test	\pm 3.12 dB (9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	$\pm 3\%$
8	DC and low frequency voltages	±0.5%



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4.11 Equipment List

	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)	
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2018/3/10	2019/3/9	
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2017/10/9	2018/10/9	
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2018/2/14	2019/2/13	
4	8 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T8- 02	EMC0120	2017/9/28	2018/9/28	
5	4 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T4- 02	EMC0121	2017/9/28	2018/9/28	
6	2 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T2- 02	EMC0122	2017/9/28	2018/9/28	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018/2/14	2019/2/13	
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017/10/9	2018/10/9	

	RF conducted test							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)		
1	Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/4/28	2019/4/28		
2	Signal Analyzer	Rohde &Schwarz	FSV	W005-02	2018/3/13	2019/3/12		
3	Signal Generator	Rohde &Schwarz	SML03	SEM006-02	2018/2/14	2019/2/13		
4	Power Meter	Rohde &Schwarz	NRVS	SEM014-02	2017/10/9	2018/10/9		
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2017/10/9	2018/10/9		



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			RE in Chamb	er		
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2018/3/10	2019/3/9
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017/10/9	2018/10/9
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/11/1	2020/11/1
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015/10/17	2018/10/17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2017/11/24	2020/11/24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2018/2/14	2019/2/13
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017/10/9	2018/10/9
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2018/3/10	2019/3/9

	RE in Chamber								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)			
1	10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/10	2019/3/9			
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018/2/14	2019/2/13			
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/29			
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2018/4/28	2019/4/28			
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2018/7/14	2021/7/13			



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	RE in Chamber								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/10	2019/3/9			
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2018/6/18	2019/6/17			
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017/11/15	2020/11/15			
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017/10/9	2018/10/9			
5	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2017/10/17	2018/10/17			
6	Pre-Amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP- 2640-50	SEM005-08	2018/3/14	2019/3/14			
7	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/5/14	2020/5/13			
8	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2017/11/24	2020/11/24			
9	HornAntenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2017/10/17	2020/10/16			
10	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2017/10/9	2018/10/9			
11	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A			



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5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C 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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.5dBi.



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5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.2	207				
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
, ,	Fraguenay rango (MHz)	Limi	t (dBuV)			
Limit:	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithn	n of the frequency.				
	 The mains terminal disturbance voltage test was conducted in a shielded room. 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. 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. 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. 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. 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: 2013 on conducted measurement. 					
Test Procedure:						
Test Setup:	Shielding Room	AE T	Test Receiver			

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LISNI

LISN2

Ground Reference Plane



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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
	Charge + Transmitting mode.
E: 17 1M	Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.
Final Test Mode:	Charge + Transmitting mode.
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



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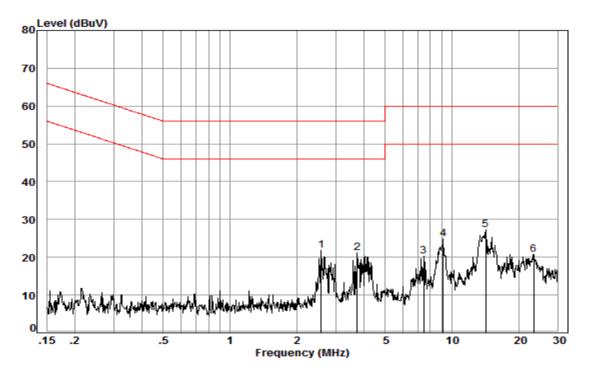
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Measurement Data

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

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

Live Line:



Site : Shielding Room

Condition: Line Job No. : 04850RG

Test mode: j

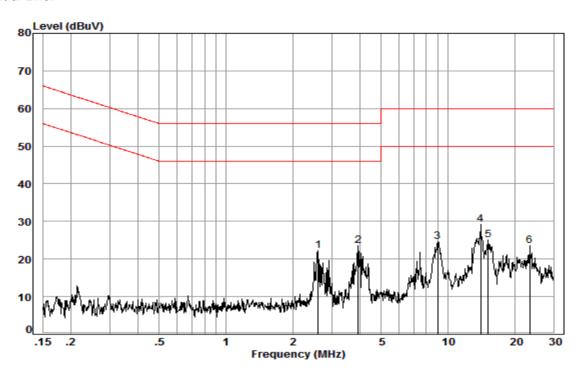
	Freq		LISN Factor	Read Level				Remark	
	MHz	dB			dBuV		dB		
1	2.58	0.17	9.53	12.01	21.71	46.00	-24.29	Peak	
2	3.74	0.19	9.54	11.40	21.13	46.00	-24.87	Peak	
3	7.45	0.18	9.60	10.56	20.34	50.00	-29.66	Peak	
4	9.16	0.19	9.62	15.00	24.81	50.00	-25.19	Peak	
5	14.21	0.24	9.70	17.31	27.25	50.00	-22.75	Peak	
6	23.39	0.27	9.84	10.66	20.77	50.00	-29.23	Peak	



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Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 04850RG

Test mode: i

	Freq		LISN Factor	Read Level				Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	2.61	0.17	9.64	12.32	22.13	46.00	-23.87	Peak
2	3.94	0.19	9.67	13.78	23.64	46.00	-22.36	Peak
3	9.01	0.19	9.76	14.72	24.67	50.00	-25.33	Peak
4	14.06	0.24	9.91	18.98	29.13	50.00	-20.87	Peak
5	15.23	0.25	9.94	14.87	25.06	50.00	-24.94	Peak
6	23.39	0.27	10.17	13.01	23.45	50.00	-26.55	Peak

Notes:

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



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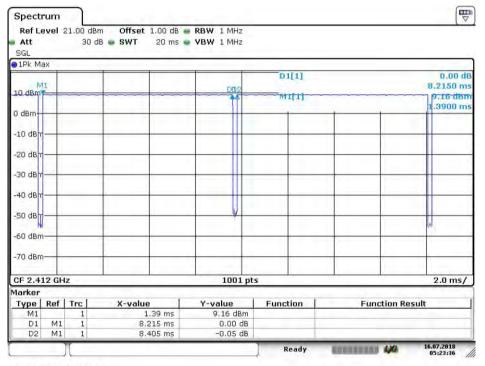
5.3 Duty Cycle

5.3.1 Part I - Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
11B	Ant 1: CH1	97
11G	Ant 1: CH1	87
11N_20	Ant 1: CH1	86
11N_40	Ant 1: CH3	72

5.3.2 Part II - Test Plots

5.3.2.1 11B @Ant 1



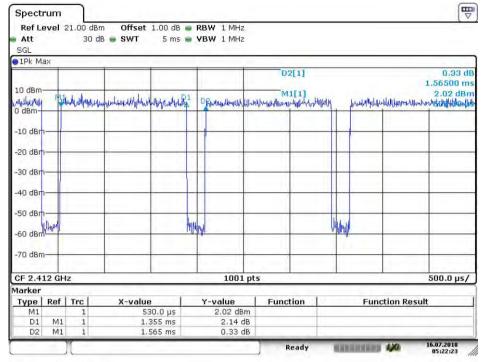
Date: 16.JUL.2018 05:23:36



Report No.: SZEM180600485002

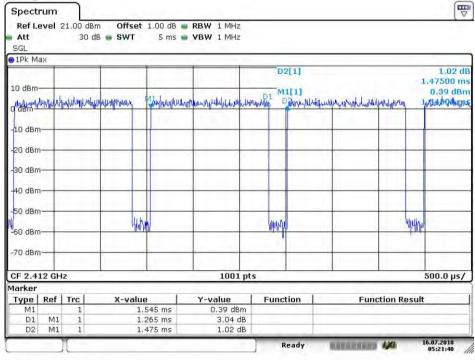
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5.3.2.2 11G@Ant 1



Date: 16.JUL.2018 05:22:23

5.3.2.3 11N20@Ant 1



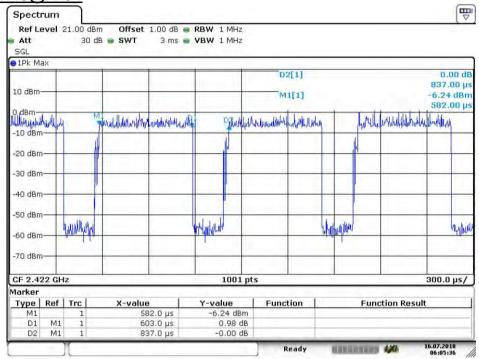
Date: 16.JUL.2018 05:21:40



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5.3.2.4 11N40@Ant 1



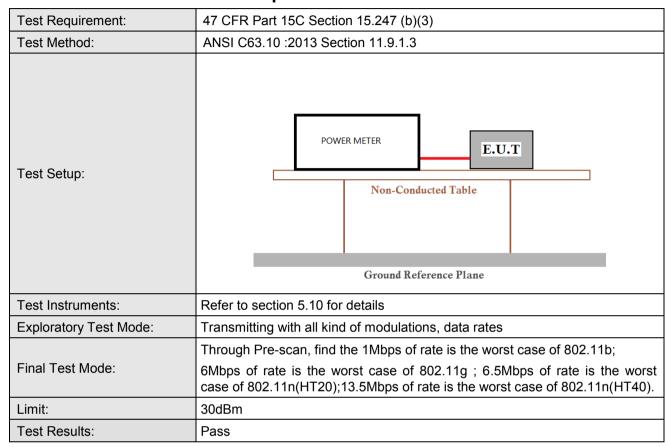
Date: 16.JUL.2018 06:05:36



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5.4 Conducted Peak Output Power





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Measurement Data

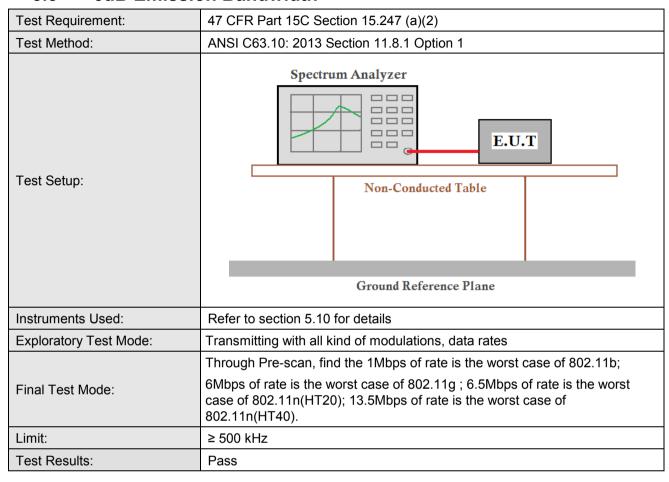
Measurement Data							
	802.11b mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	18.48	30.00	Pass				
Middle	18.36	30.00	Pass				
Highest	18.81	30.00	Pass				
	802.11g mo	de					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	20.66	30.00	Pass				
Middle	20.93	30.00	Pass				
Highest	21.16	30.00	Pass				
	802.11n(HT20)	mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	20.35	30.00	Pass				
Middle	20.14	30.00	Pass				
Highest	20.17	30.00	Pass				
	802.11n(HT40)	mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	19.49	30.00	Pass				
Middle	20.20	30.00	Pass				
Highest	19.76	30.00	Pass				



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5.5 6dB Emission Bandwidth





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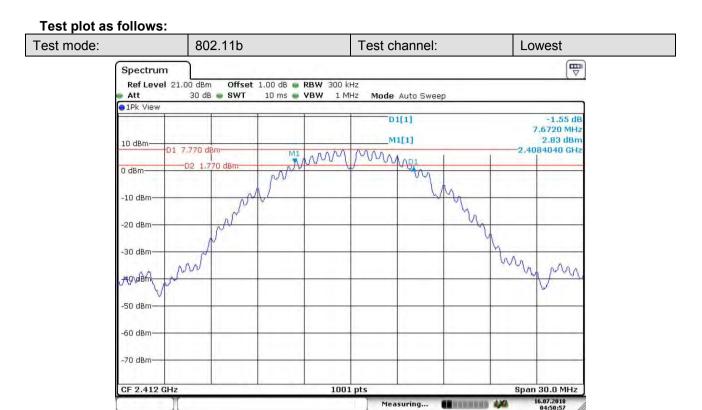
Measurement Data

Measurement Data						
802.11b mode						
Test channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	7.67	≥500	Pass			
Middle	7.67	≥500	Pass			
Highest	7.70	≥500	Pass			
	802.11g mode					
Test channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	16.54	≥500	Pass			
Middle	16.66	≥500	Pass			
Highest	lighest 16.45		Pass			
	802.11n(HT20) mode					
Test channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	17.59	≥500	Pass			
Middle	17.80	≥500	Pass			
Highest	17.68	≥500	Pass			
	802.11n(HT40) mode					
Test channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	35.72	≥500	Pass			
Middle	36.14	≥500	Pass			
Highest	36.14	≥500	Pass			

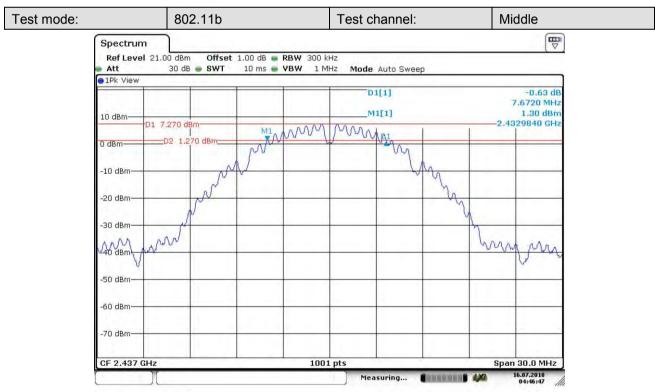


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Date: 16.JUL.2018 04:50:57

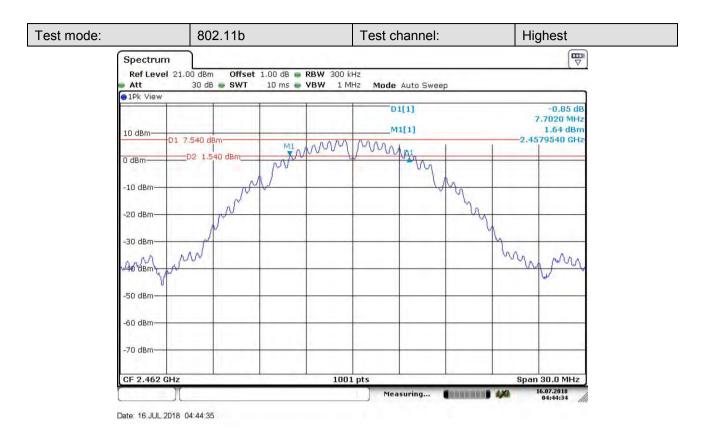


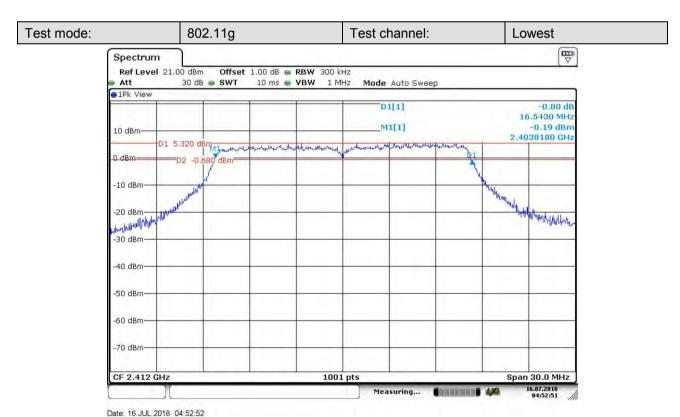
Date: 16.JUL.2018 04:46:47



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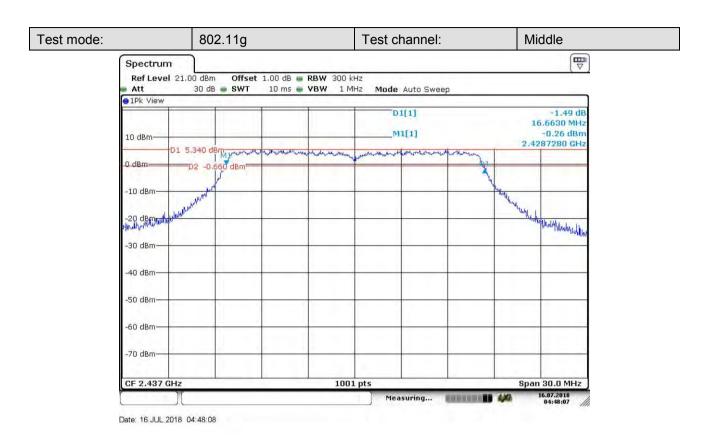


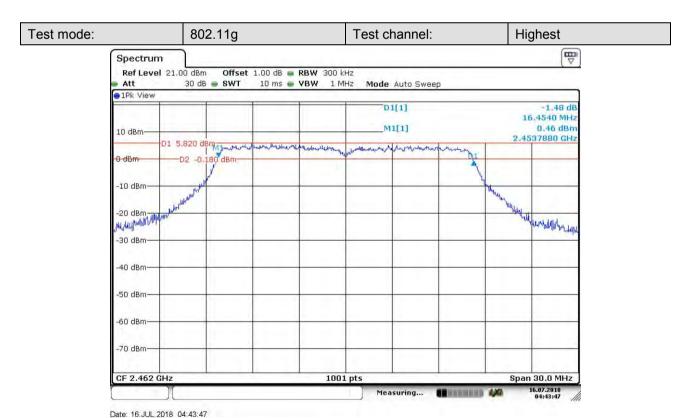




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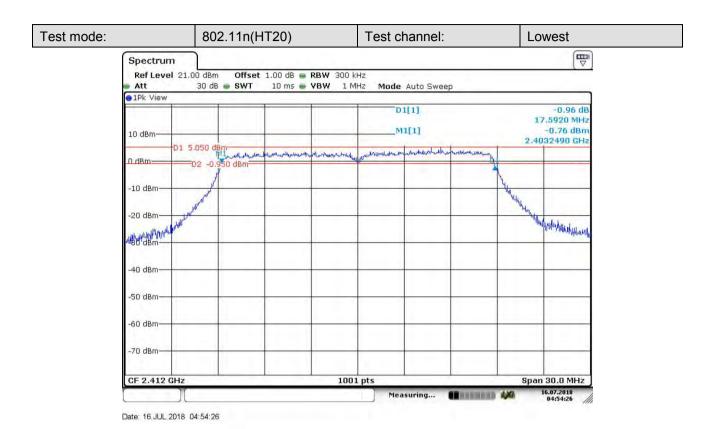


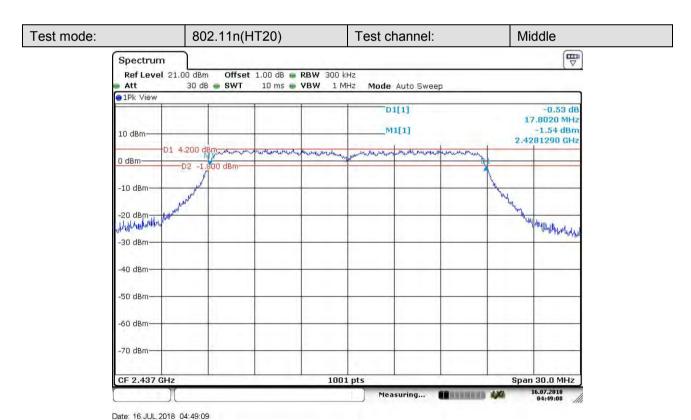




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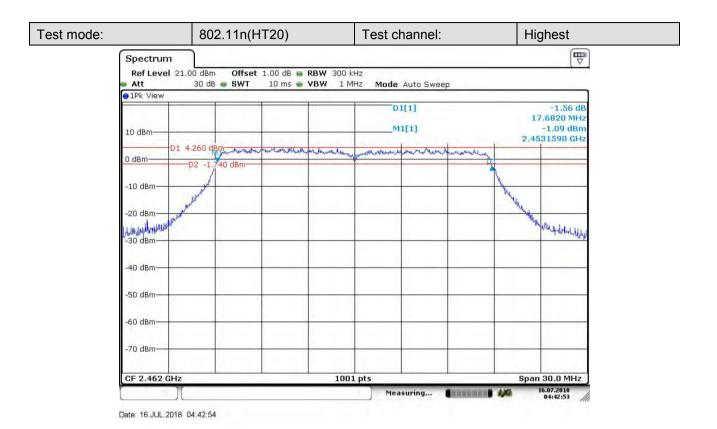


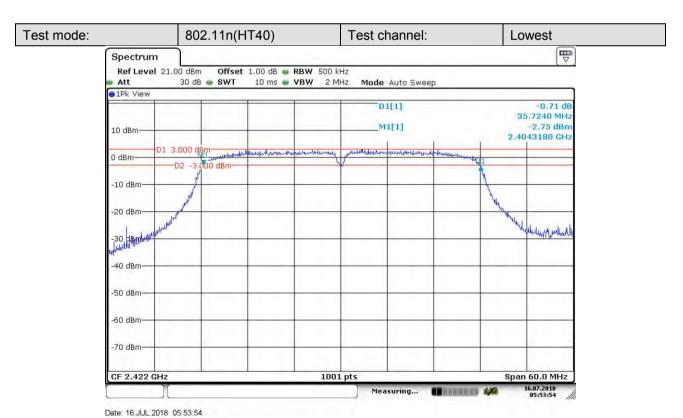




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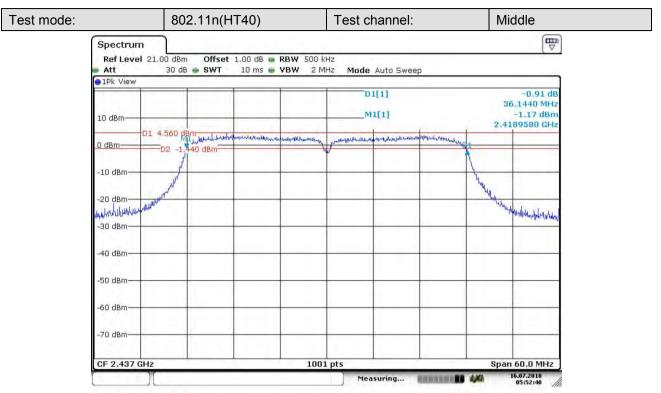


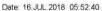
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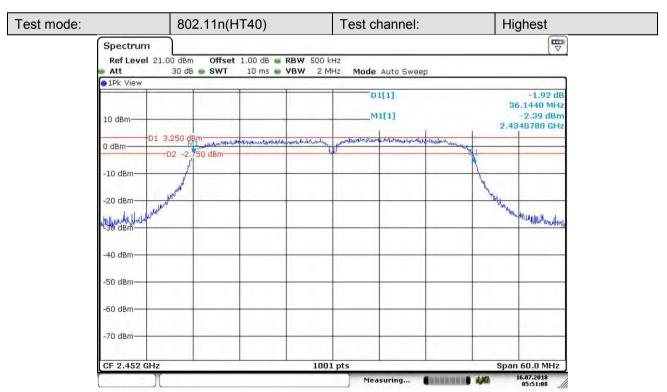


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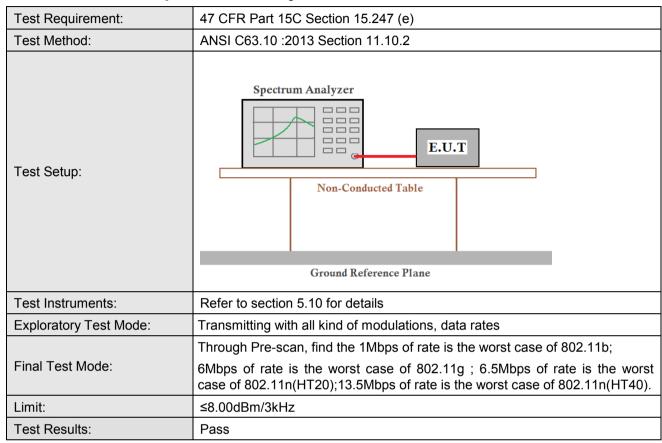
Date: 16.JUL.2018 05:51:08



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5.6 Power Spectral Density





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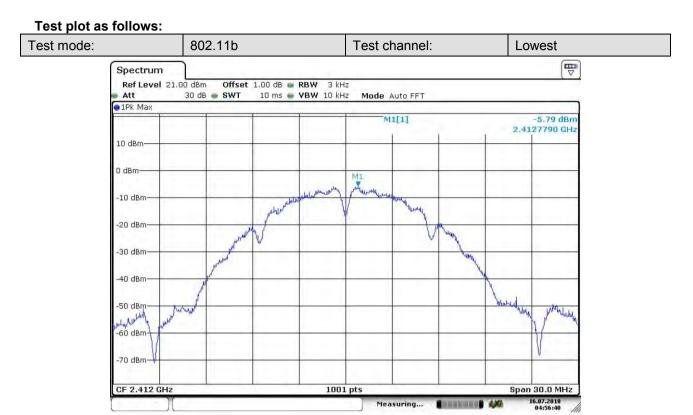
Measurement Data

Weasurement Data	Measurement Data						
	802.11b mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-5.70	≤8.00	Pass				
Middle	-6.39	≤8.00	Pass				
Highest	-6.39	≤8.00	Pass				
	802.11g mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-9.57	≤8.00	Pass				
Middle	-10.28	≤8.00	Pass				
Highest	-10.96	≤8.00	Pass				
	802.11n(HT20) mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-11.90	≤8.00	Pass				
Middle	-11.57	≤8.00	Pass				
Highest	-11.67	≤8.00	Pass				
	802.11n(HT40) mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-15.79	≤8.00	Pass				
Middle	-14.12	≤8.00	Pass				
Highest	-15.63	≤8.00	Pass				

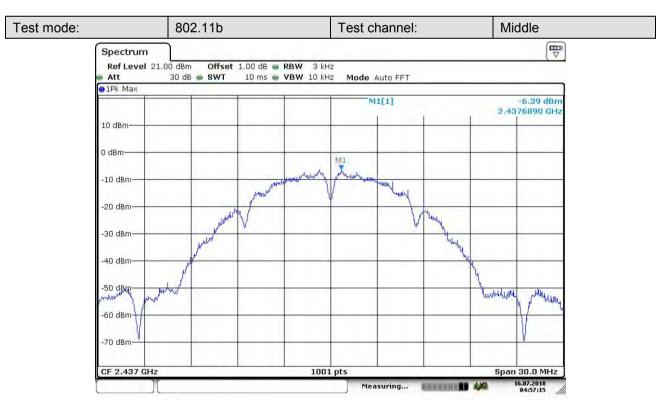


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Date: 16.JUL.2018 04:56:41

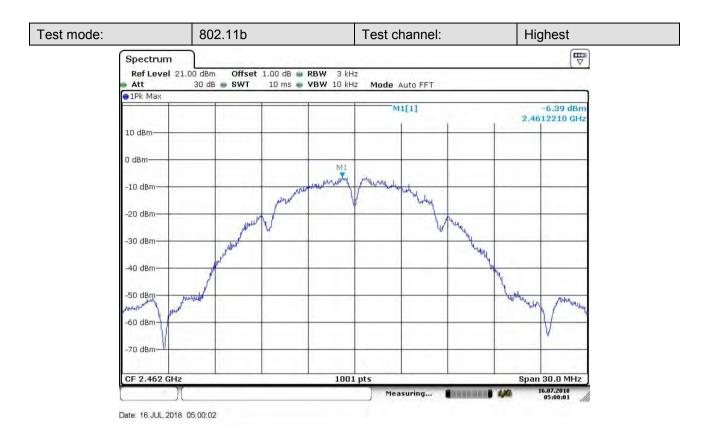


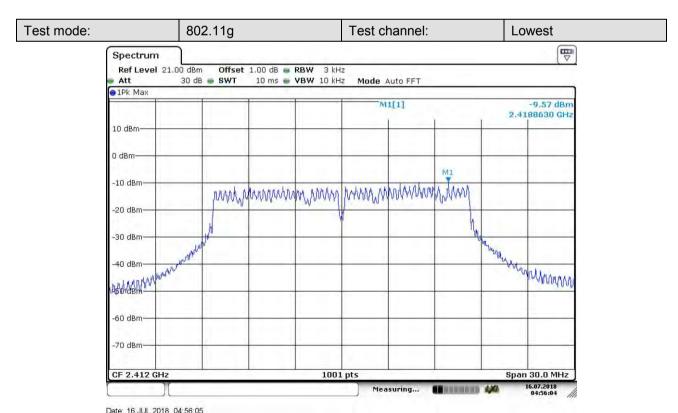
Date: 16.JUL.2018 04:57:15



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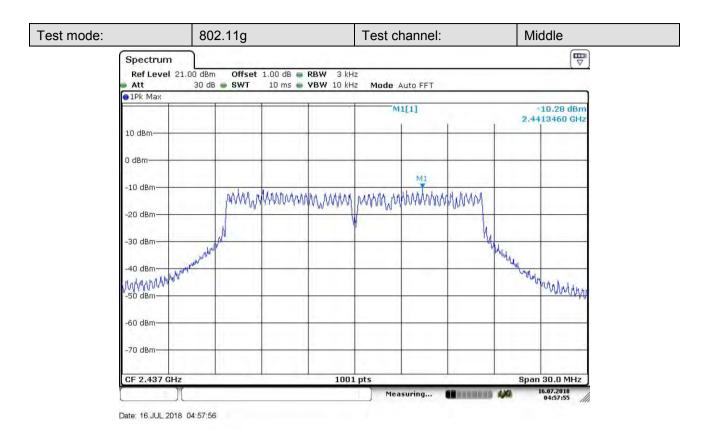


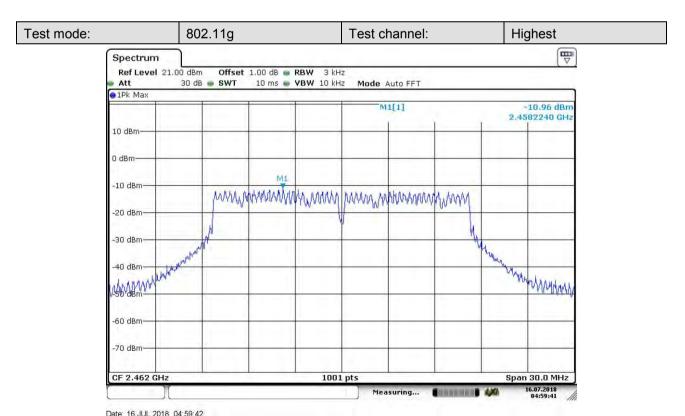




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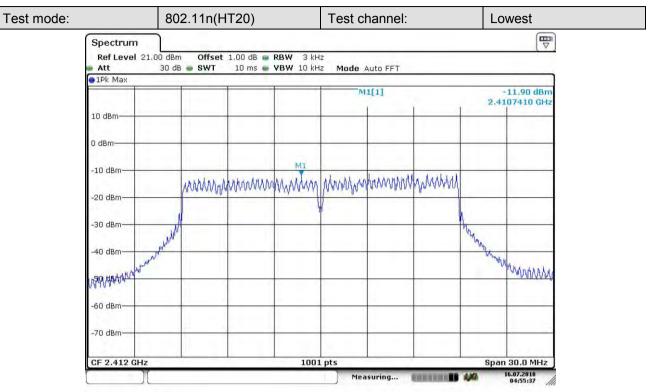




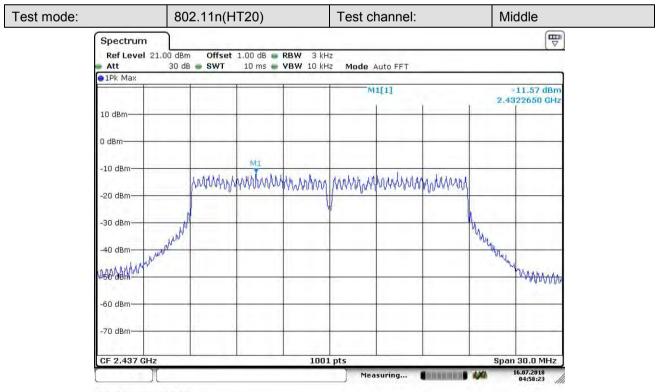


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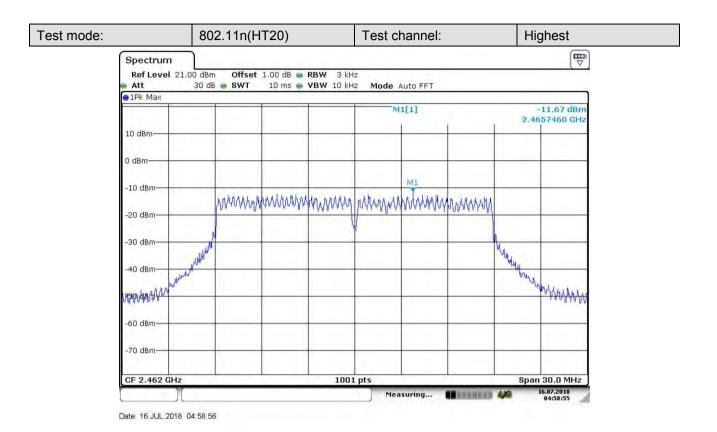


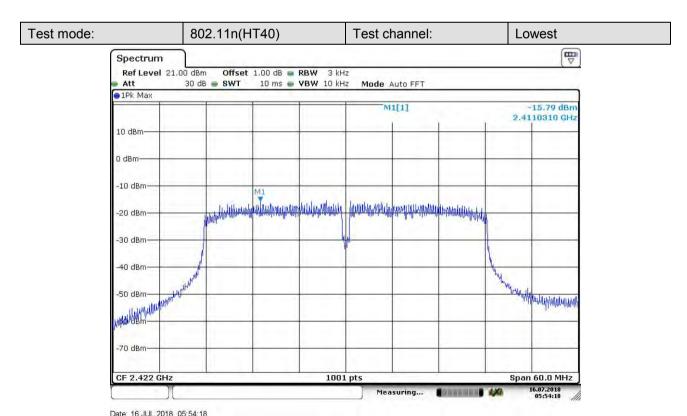
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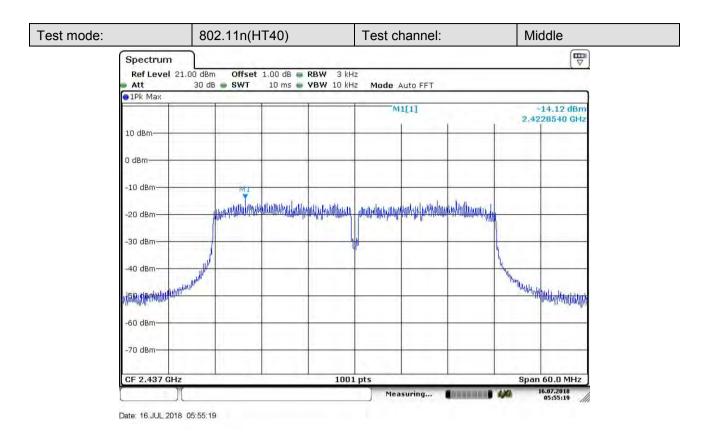


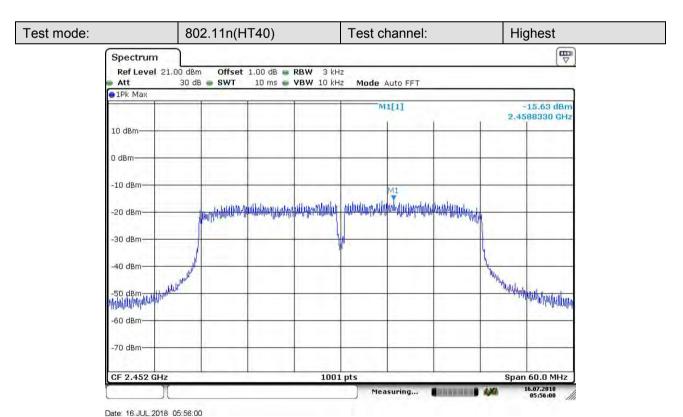




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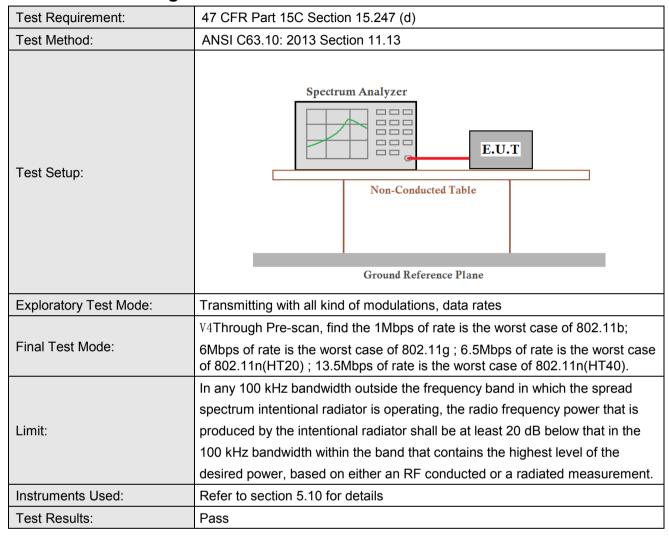




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5.7 Band-edge for RF Conducted Emissions

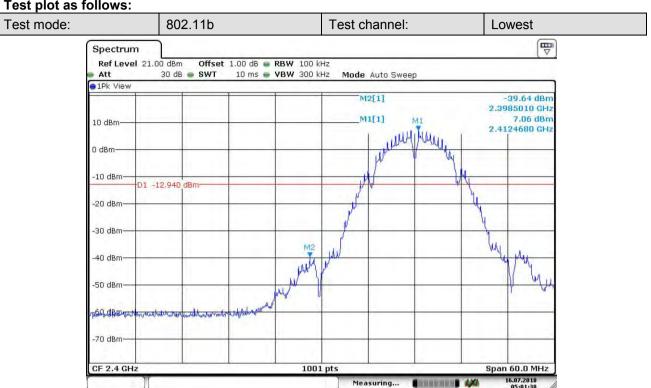




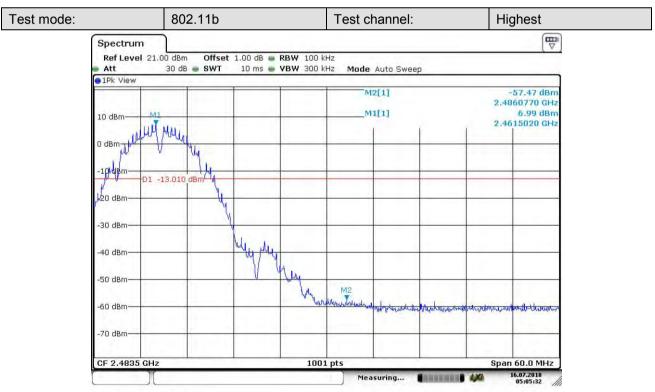
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Test plot as follows:



Date: 16.JUL.2018 05:01:38

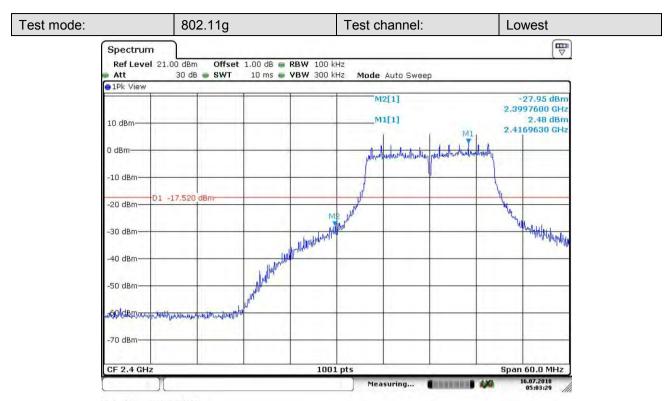


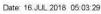
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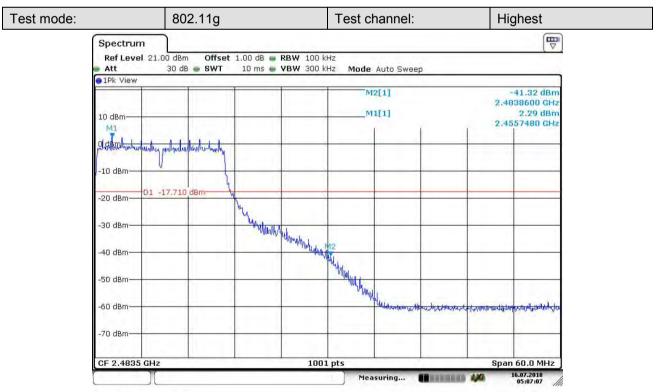


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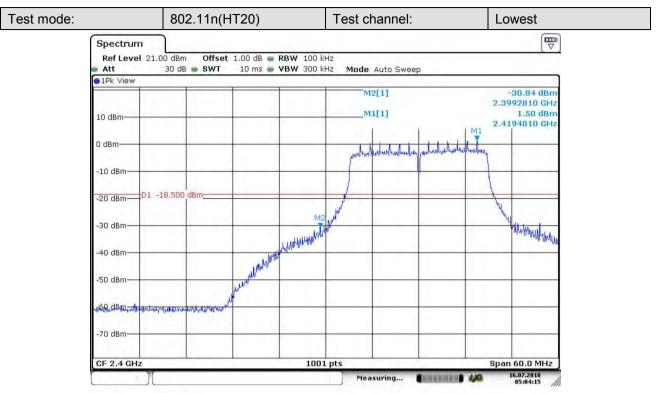


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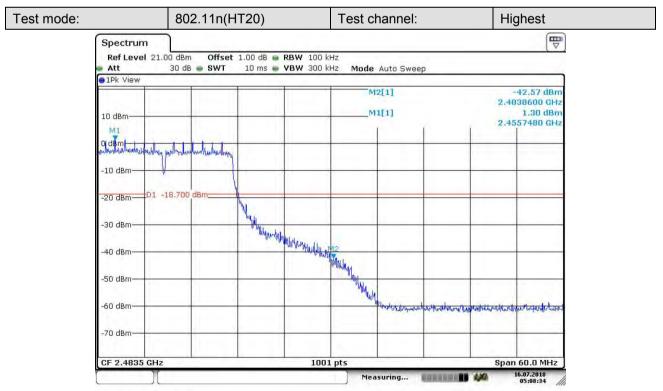


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Date: 16.JUL.2018 05:04:15

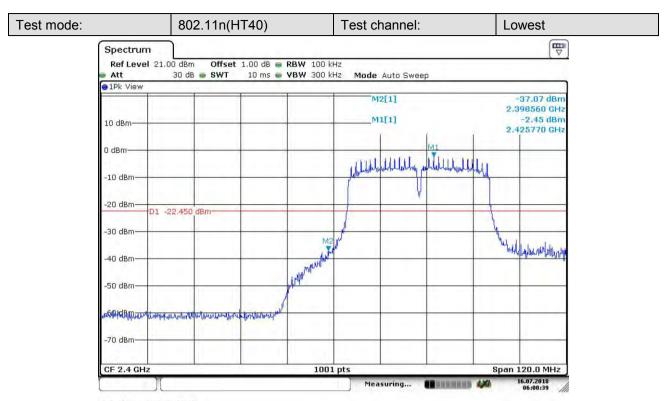


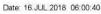
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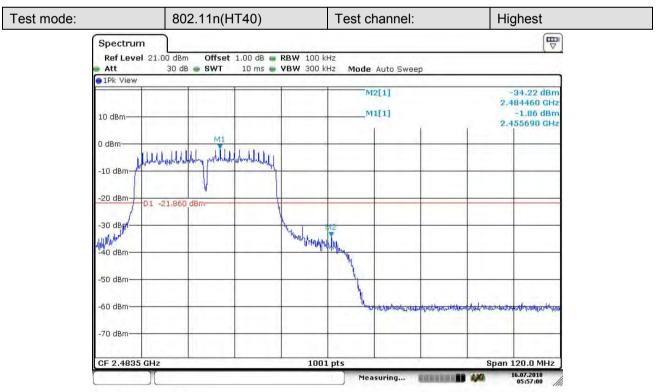


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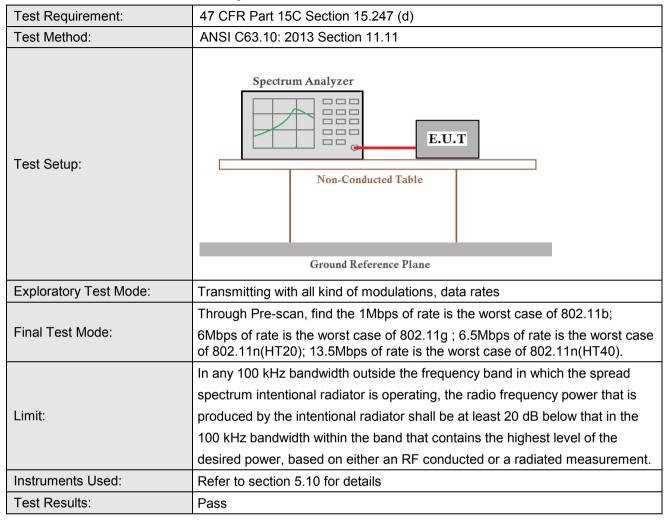
Date: 16.JUL.2018 05:57:01



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5.8 RF Conducted Spurious Emissions

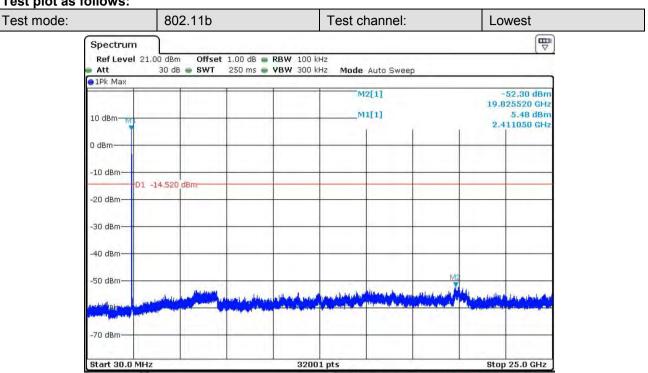




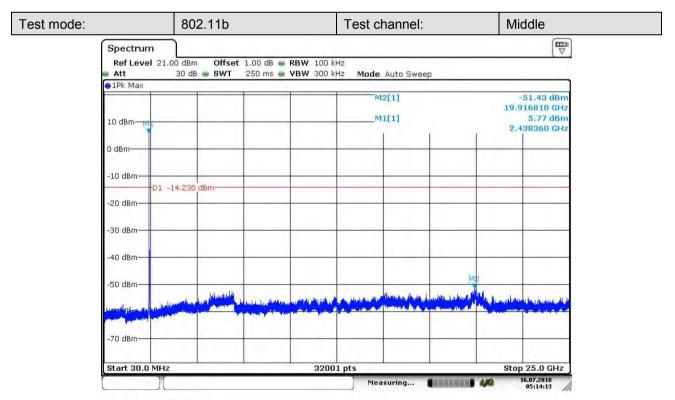
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Test plot as follows:



Date: 16.JUL.2018 05:17:31



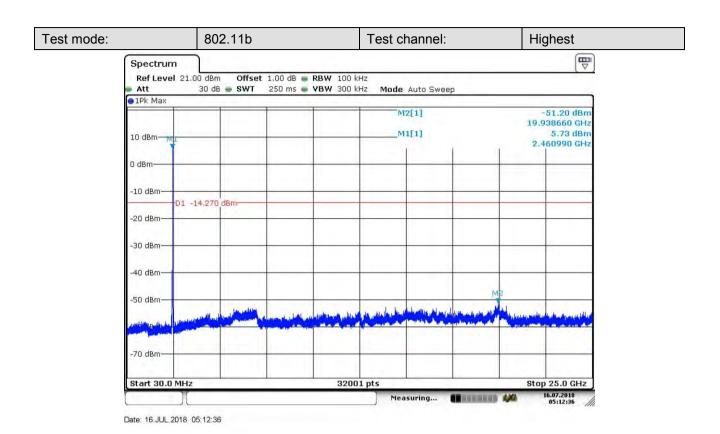
Date: 16.JUL.2018 05:14:14

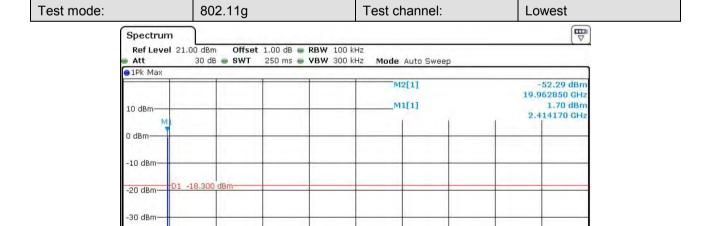


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Stop 25.0 GHz

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Date: 16.JUL.2018 05:18:53

Start 30.0 MHz

-40 dBm

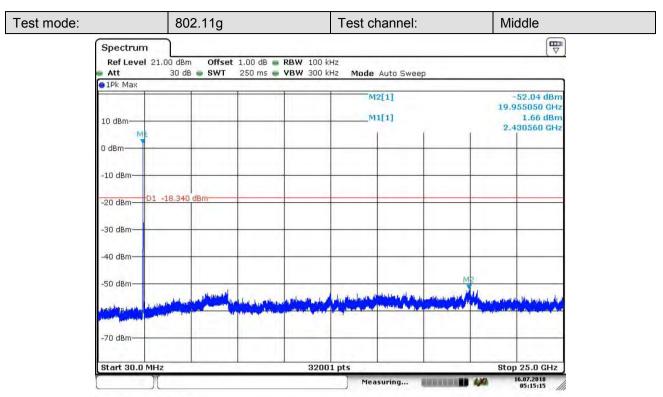
-70 dBm

32001 pts

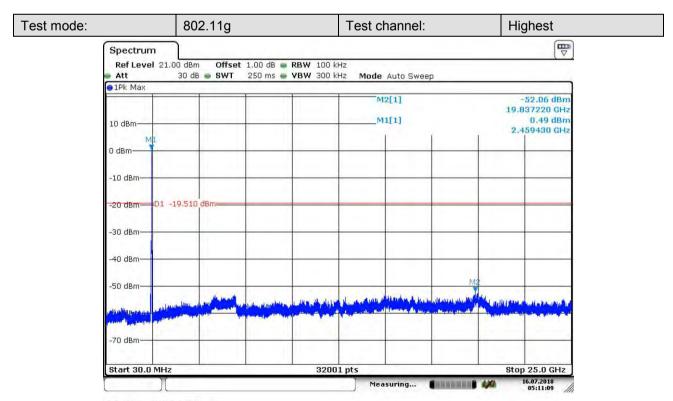


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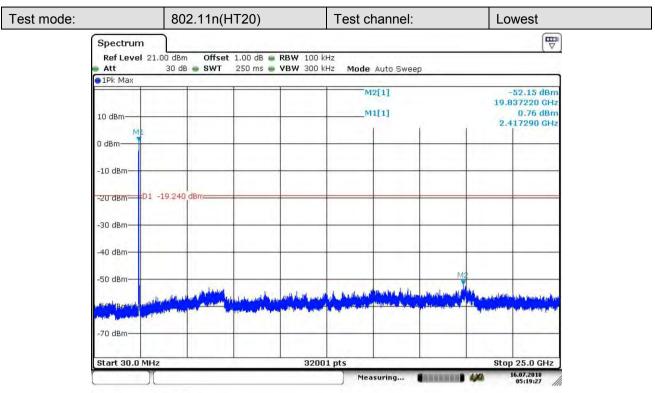


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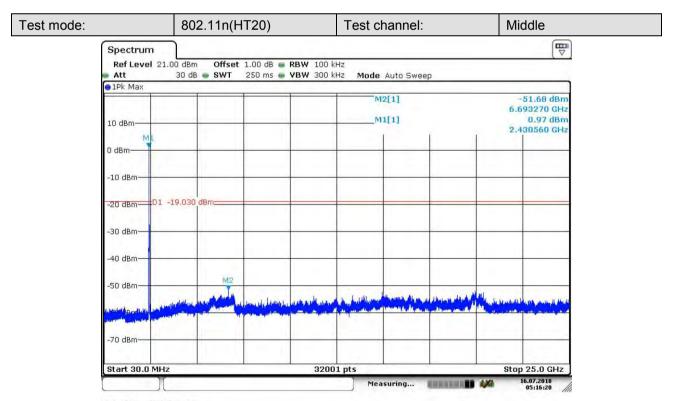


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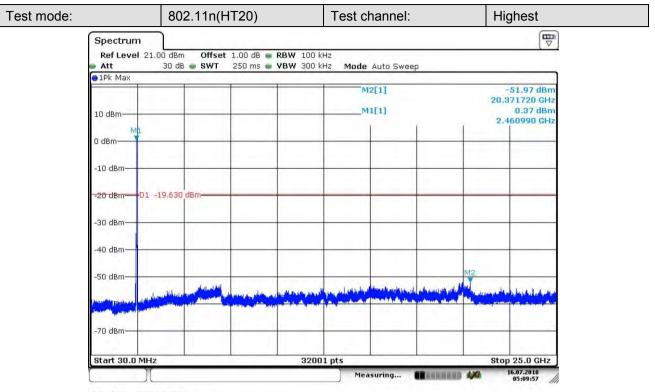


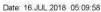
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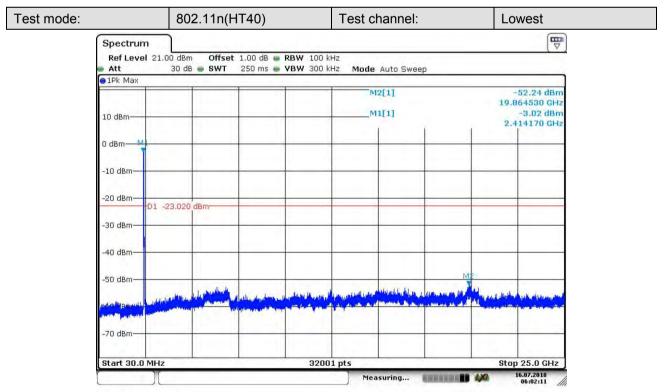


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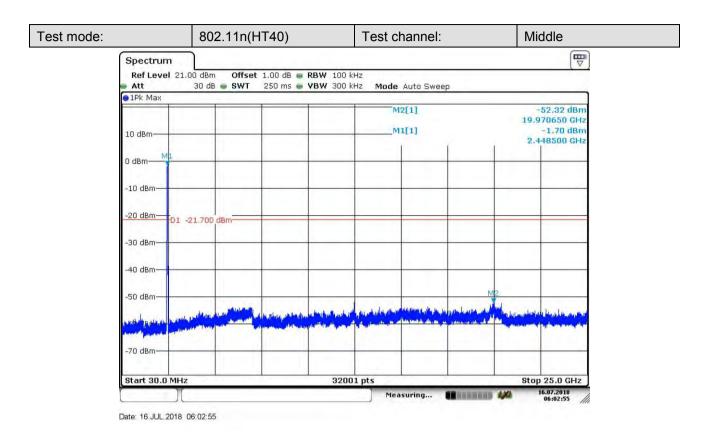


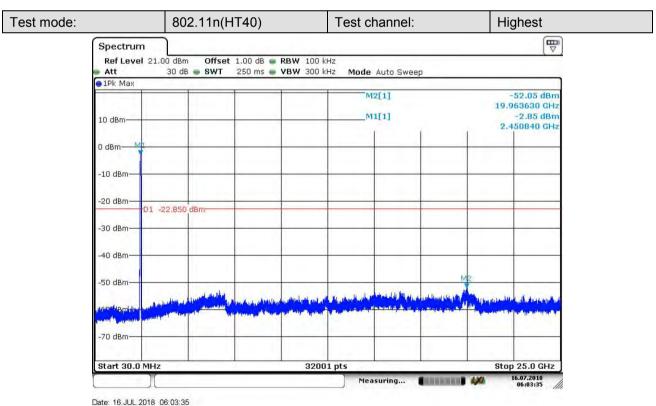
Date: 16.JUL.2018 06:02:11



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Date: 16.JUL.2018 06:03:3

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Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported

5.9 Radiated Spurious Emissions

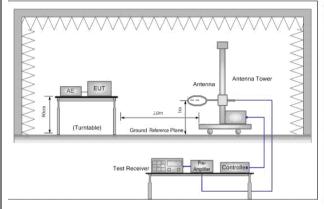
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 :2013 Section 11.12							
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)							
	Frequency	Detector	RBW	VBW	Remark			
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak			
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average			
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
Desciver Ceture	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak			
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average			
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak			
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak			
	Above 1011=	Peak	1MHz	3MHz	Peak			
	Above 1GHz	Peak	1MHz	10Hz	Average			
	Frequency	Field strength	Limit (dBuV/m)	Remark	Measurement			
	rrequericy	(microvolt/meter)	Limit (abav/m)	IXCIIIaik	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			
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3			
Little.	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	l, the limit on pea	k radio freque	ncy			
	emissions is 20dB abov	e the maximum pe	ermitted average	emission limit				
	applicable to the equipr level radiated by the de		is peak limit appl	ies to the total	peak emission			



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Test Setup:



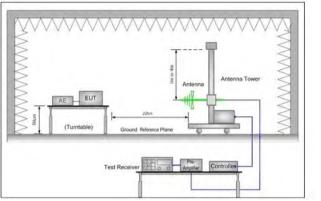


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

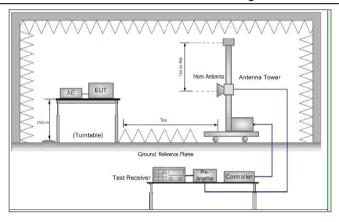


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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

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	EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode.
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case
	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

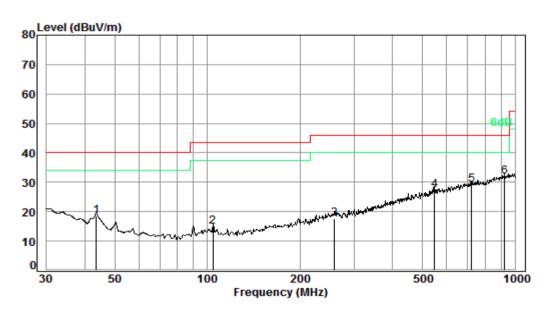


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5.9.1 Radiated emission below 1GHz

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



Condition: 3m VERTICAL Job No. : 04850RG

Test mode: e

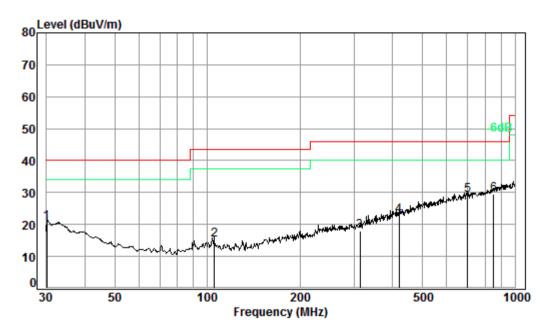
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	43.51	0.68	16.26	27.42	29.14	18.66	40.00	-21.34
2	104.17	1.21	13.80	27.32	27.28	14.97	43.50	-28.53
3	259.23	1.72	19.09	26.73	23.66	17.74	46.00	-28.26
4	547.10	2.65	25.59	27.78	27.06	27.52	46.00	-18.48
5	721.73	2.97	28.04	27.75	26.05	29.31	46.00	-16.69
6 pp	925.76	3.63	29.93	26.91	25.24	31.89	46.00	-14.11



Report No.: SZEM180600485002

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Test mode:	Charge + Transmitting	Horizontal



Condition: 3m HORIZONTAL

Job No. : 04850RG

Test mode: e

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.60	22.44	27.45	25.18	20.77	40.00	-19.23
2	105.27	1.22	13.75	27.32	27.54	15.19	43.50	-28.31
3	313.28	1.94	20.02	26.72	22.85	18.09	46.00	-27.91
4	420.58	2.29	22.89	27.28	24.89	22.79	46.00	-23.21
5	701.76	2.91	27.91	27.78	26.27	29.31	46.00	-16.69
6 pp	851.04	3.41	29.18	27.33	24.20	29.46	46.00	-16.54

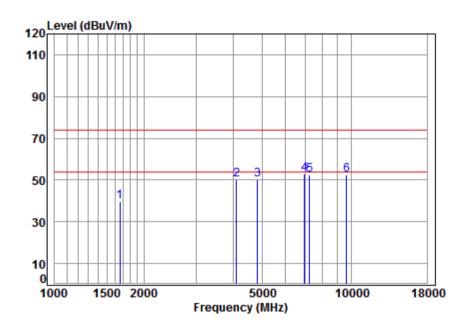


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5.9.2 Transmitter emission above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2412 TX RSE Note : 2.4G WIFI 11B

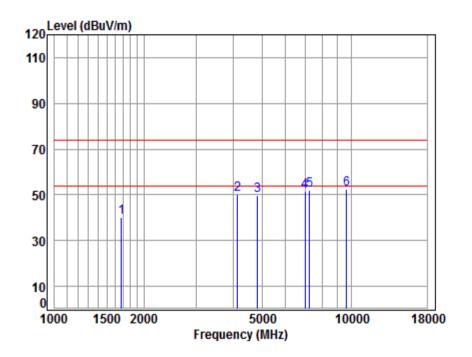
Fr			Preamp Factor					Remark
М	Hz dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2 4109.8	00 10.07	33.60 34.19 36.38 36.40	38.06 38.42 37.34 37.08	47.67 46.71 43.56 42.86	50.32 50.39 52.85 52.25	74.00 74.00 74.00 74.00	-23.68 -23.61 -21.15 -21.75	peak peak peak peak



Report No.: SZEM180600485002

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Test mode: 802.11b Test channel: Lowest Remark: Pea	ak Horizontal
---	---------------



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2412 TX RSE Note : 2.4G WIFI 11B

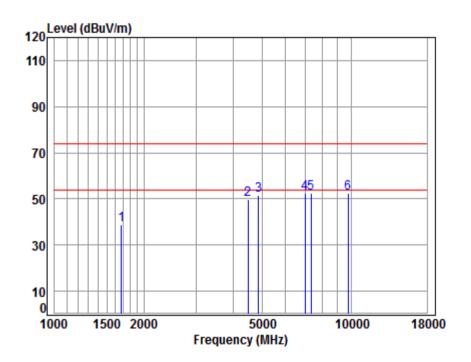
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1677.621	5.25	26.58	38.03	46.30	40.10	74.00	-33.90	peak
2		4133.699	7.14	33.60	38.07	47.69	50.36	74.00	-23.64	peak
3		4824.000	7.91	34.19	38.42	46.15	49.83	74.00	-24.17	peak
4		6995.172	10.14	36.49	37.30	42.43	51.76	74.00	-22.24	peak
5		7236.000	10.07	36.40	37.08	42.51	51.90	74.00	-22.10	peak
6	pp	9648.000	10.77	37.53	35.07	39.37	52.60	74.00	-21.40	peak



Report No.: SZEM180600485002

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Test mode:	802.11b	Test channel:	Middle	Remark:	Peak	Vertical
	00					



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11B

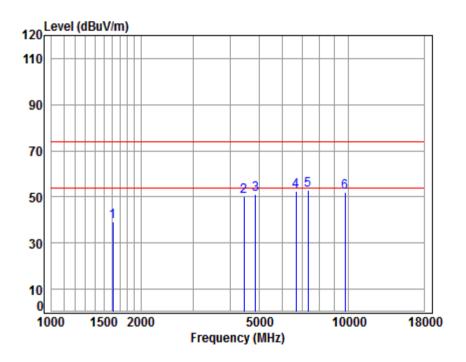
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4600 477	F 0F	25.50	20.00	45.45	20.00	74.00	25.00	
1	1682.477	5.25	26.60	38.02	45.15	38.98	74.00	-35.02	peak
2	4495.125	7.55	33.60	38.26	46.73	49.62	74.00	-24.38	peak
3	4874.000	7.96	34.28	38.44	47.63	51.43	74.00	-22.57	peak
4 p	p 6974.982	10.20	36.43	37.32	43.31	52.62	74.00	-21.38	peak
5	7311.000	10.05	36.37	37.01	43.04	52.45	74.00	-21.55	peak
6	9748.000	10.82	37.55	35.02	38.91	52.26	74.00	-21.74	peak



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Test mode: 802.11b Test channel: Middle Remark: Peak F	Horizontal
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Condition: 3m HORIZONTAL

Job No : 4850RG

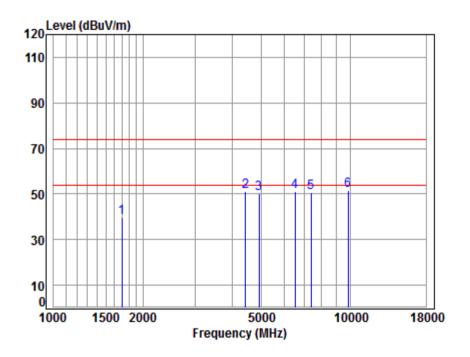
Mode : 2437 TX RSE Note : 2.4G WIFI 11B

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1611 001	E 24	26.20	20.02	AE C1	20.22	74.00	24 70	
1	1611.091								•
2	4456.315	7.51	33.60	38.24	47.44	50.31	74.00	-23.69	peak
3	4874.000	7.96	34.28	38.44	47.17	50.97	74.00	-23.03	peak
4	6659.763	11.08	35.56	37.62	43.23	52.25	74.00	-21.75	peak
5 pp	7311.000	10.05	36.37	37.01	43.50	52.91	74.00	-21.09	peak
6	9748.000	10.82	37.55	35.02	38.71	52.06	74.00	-21.94	peak



Report No.: SZEM180600485002

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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2462 TX RSE Note : 2.4G WIFI 11B

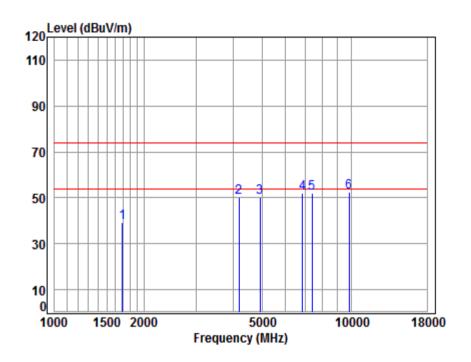
00		. 2.7	G MILL	110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	-										
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1702.042	5 23	26 68	38 02	15 70	39 59	7/ 00	_3/ /1	neak	
										•	
2		4443.453	7.50	33.60	38.24	48.14	51.00	74.00	-23.00	peak	
3		4924.000	8.01	34.37	38.47	46.50	50.41	74.00	-23.59	peak	
4		6507.536	11.52	35.12	37.77	42.28	51.15	74.00	-22.85	peak	
5		7386.000	10.03	36.34	36.94	41.40	50.83	74.00	-23.17	peak	
6	pp	9848.000	10.87	37.57	34.97	38.28	51.75	74.00	-22.25	peak	



Report No.: SZEM180600485002

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



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2462 TX RSE Note : 2.4G WIFI 11B

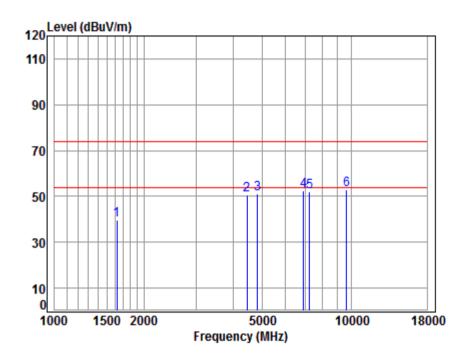
			110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	5.24	26.64	38.02	45.35	39.21	74.00	-34.79	peak
2	4181.768	7.20	33.60	38.10	47.57	50.27	74.00	-23.73	peak
3	4924.000	8.01	34.37	38.47	46.42	50.33	74.00	-23.67	peak
4	6855.063	10.53	36.10	37.44	42.94	52.13	74.00	-21.87	peak
5	7386.000	10.03	36.34	36.94	42.72	52.15	74.00	-21.85	peak
6	pp 9848.000	10.87	37.57	34.97	38.91	52.38	74.00	-21.62	peak



Report No.: SZEM180600485002

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



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2412 TX RSE Note : 2.4G WIFI 11G

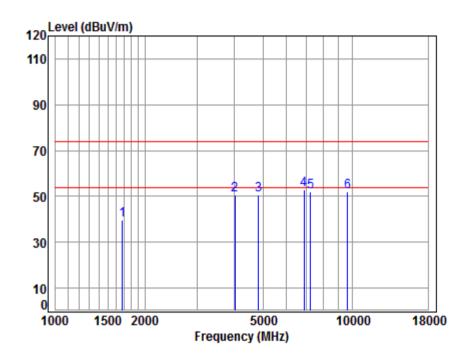
	_									
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1620.431	5.32	26.34	38.03	46.21	39.84	74.00	-34.16	peak
2		4456.315	7.51	33.60	38.24	47.70	50.57	74.00	-23.43	peak
3		4824.000	7.91	34.19	38.42	47.23	50.91	74.00	-23.09	peak
4		6894.806	10.42	36.21	37.40	43.34	52.57	74.00	-21.43	peak
5		7236.000	10.07	36.40	37.08	42.79	52.18	74.00	-21.82	peak
6	pp	9648.000	10.77	37.53	35.07	39.71	52.94	74.00	-21.06	peak



Report No.: SZEM180600485002

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Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2412 TX RSE Note : 2.4G WIFI 11G

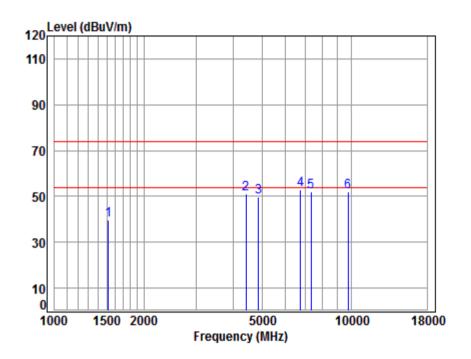
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
						dD: ////m	dD: \// /m		
	MHz	dB	ub/m	dB	abuv	ubuv/m	ubuv/m	dB	
1	1677.621	5.25	26.58	38.03	45.81	39.61	74.00	-34.39	peak
2	4027.554	7.01	33.60	38.02	47.97	50.56	74.00	-23.44	peak
3	4824.000	7.91	34.19	38.42	46.97	50.65	74.00	-23.35	peak
4 p	p 6874.906	10.47	36.16	37.42	43.51	52.72	74.00	-21.28	peak
5	7236.000	10.07	36.40	37.08	42.72	52.11	74.00	-21.89	peak
6	9648.000	10.77	37.53	35.07	38.97	52.20	74.00	-21.80	peak



Report No.: SZEM180600485002

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restitione. ouz.rig restitiatile. wildle Remark. reak vertical	Test mode:	802.11g	Test channel:	Middle	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11G

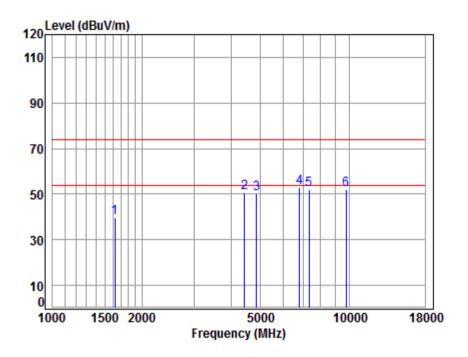
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1520.598	5 45	25 89	38 04	46 60	39 90	74 00	-34 10	neak
	4417.841								•
3	4874.000								•
4 p	p 6737.207	10.86	35.78	37.55	43.72	52.81	74.00	-21.19	peak
5	7311.000	10.05	36.37	37.01	42.65	52.06	74.00	-21.94	peak
6	9748.000	10.82	37.55	35.02	38.73	52.08	74.00	-21.92	peak



Report No.: SZEM180600485002

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Test mode:	802.11g	Test channel:	Middle	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2437 TX RSE Note : 2.4G WIFI 11G

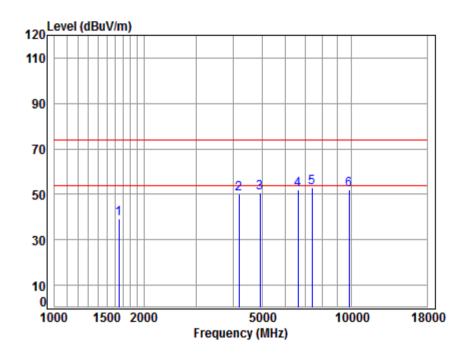
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	5.32	26.34	38.03	46.24	39.87	74.00	-34.13	peak
2	4443.453	7.50	33.60	38.24	47.85	50.71	74.00	-23.29	peak
3	4874.000	7.96	34.28	38.44	46.35	50.15	74.00	-23.85	peak
4 pp	6795.879	10.69	35.94	37.49	43.79	52.93	74.00	-21.07	peak
5	7311.000	10.05	36.37	37.01	42.57	51.98	74.00	-22.02	peak
6	9748.000	10.82	37.55	35.02	38.88	52.23	74.00	-21.77	peak



Report No.: SZEM180600485002

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



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2462 TX RSE Note : 2.4G WIFI 11G

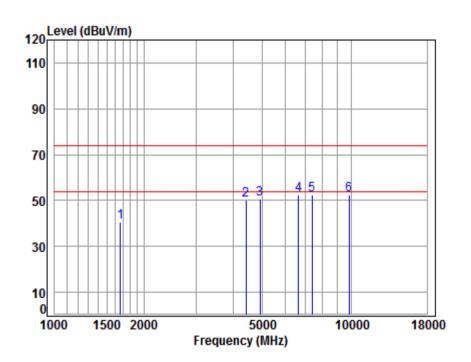
0									
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	5.29	26.46	38.03	45.62	39.34	74.00	-34.66	peak
2	4181.768	7.20	33.60	38.10	47.33	50.03	74.00	-23.97	peak
3	4924.000	8.01	34.37	38.47	46.76	50.67	74.00	-23.33	peak
4	6621.375	11.19	35.45	37.66	43.15	52.13	74.00	-21.87	peak
5 pp	7386.000	10.03	36.34	36.94	43.40	52.83	74.00	-21.17	peak
6	9848.000	10.87	37.57	34.97	38.50	51.97	74.00	-22.03	peak



Report No.: SZEM180600485002

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



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2462 TX RSE Note : 2.4G WIFI 11G

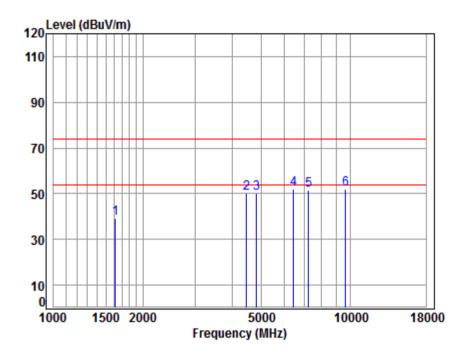
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1667 051	E 27	26 54	20 02	46 93	10 60	74 00	22 40	naale
	1667.951								•
2	4417.841	7.47	33.60	38.22	47.56	50.41	74.00	-23.59	peak
3	4924.000	8.01	34.37	38.47	46.83	50.74	74.00	-23.26	peak
4 p	p 6640.542	11.13	35.50	37.64	43.69	52.68	74.00	-21.32	peak
5	7386.000	10.03	36.34	36.94	42.88	52.31	74.00	-21.69	peak
6	9848.000	10.87	37.57	34.97	38.83	52.30	74.00	-21.70	peak



Report No.: SZEM180600485002

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Test mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2412 TX RSE

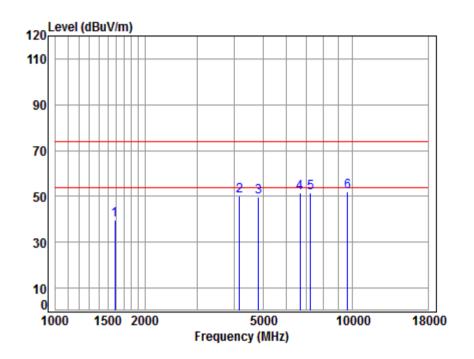
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1615.754	5.33	26.32	38.03	45.55	39.17	74.00	-34.83	peak
2	4469.214	7.53	33.60	38.25	47.50	50.38	74.00	-23.62	peak
3	4824.000	7.91	34.19	38.42	46.34	50.02	74.00	-23.98	peak
4 pp	6451.353	11.45	35.06	37.83	43.43	52.11	74.00	-21.89	peak
5	7236.000	10.07	36.40	37.08	42.38	51.77	74.00	-22.23	peak
6	9648.000	10.77	37.53	35.07	38.65	51.88	74.00	-22.12	peak



Report No.: SZEM180600485002

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



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2412 TX RSE

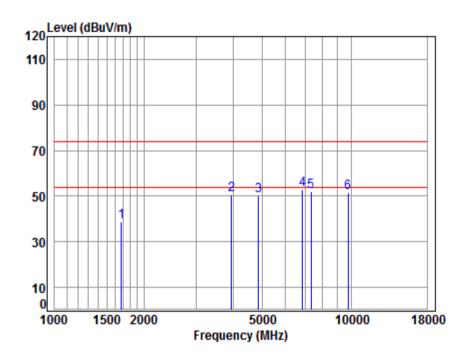
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1583.392	5.37	26.18	38.03	46.22	39.74	74.00	-34.26	peak
2	4169.698	7.18	33.60	38.09	47.65	50.34	74.00	-23.66	peak
3	4824.000	7.91	34.19	38.42	46.25	49.93	74.00	-24.07	peak
4	6679.040	11.02	35.61	37.60	42.30	51.33	74.00	-22.67	peak
5	7236.000	10.07	36.40	37.08	42.33	51.72	74.00	-22.28	peak
6	pp 9648.000	10.77	37.53	35.07	38.66	51.89	74.00	-22.11	peak



Report No.: SZEM180600485002

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Test mode:	802.11n(HT20)	Test channel:	Middle	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2437 TX RSE

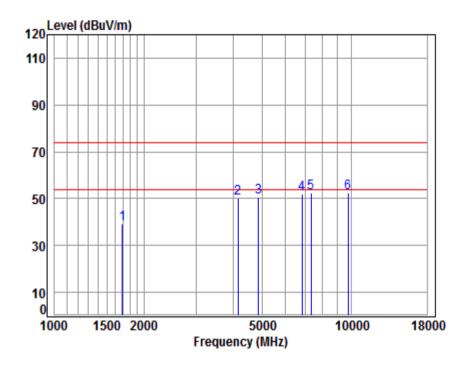
OLC	. 2.7	G W11 1	111120						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dВ	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1677.621	5 25	26 58	38 03	11 86	38 66	7/ 00	_35_3/	neak
									•
2	3946.885	6.93	33.46	38.00	48.30	50.69	74.00	-23.31	peak
3	4874.000	7.96	34.28	38.44	46.42	50.22	74.00	-23.78	peak
4 p	p 6855.063	10.53	36.10	37.44	43.54	52.73	74.00	-21.27	peak
5	7311.000	10.05	36.37	37.01	42.46	51.87	74.00	-22.13	peak
6	9748.000	10.82	37.55	35.02	38.02	51.37	74.00	-22.63	peak



Report No.: SZEM180600485002

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



Condition: 3m HORIZONTAL

Job No : 4850RG

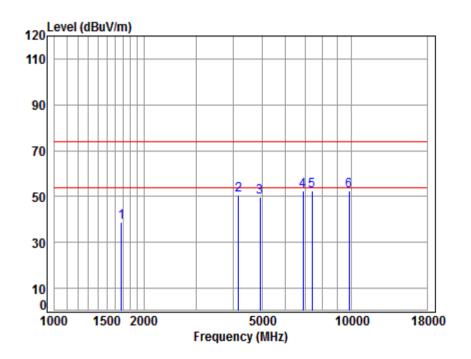
Mode : 2437 TX RSE

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1692.231	5.24	26.64	38.02	45.49	39.35	74.00	-34.65	peak
2	4145.664	7.16	33.60	38.08	47.66	50.34	74.00	-23.66	peak
3	4874.000	7.96	34.28	38.44	46.71	50.51	74.00	-23.49	peak
4	6815.551	10.64	36.00	37.47	42.95	52.12	74.00	-21.88	peak
5	7311.000	10.05	36.37	37.01	42.97	52.38	74.00	-21.62	peak
6 pp	9748.000	10.82	37.55	35.02	39.06	52.41	74.00	-21.59	peak



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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2462 TX RSE

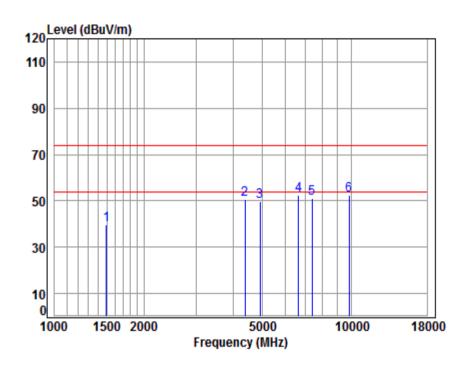
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1	1677.621	5.25	26.58	38.03	45.20	39.00	74.00	-35.00	peak
2	4169.698	7.18	33.60	38.09	47.88	50.57	74.00	-23.43	peak
3	4924.000	8.01	34.37	38.47	45.73	49.64	74.00	-24.36	peak
4	6874.906	10.47	36.16	37.42	43.25	52.46	74.00	-21.54	peak
5 pp	7386.000	10.03	36.34	36.94	43.05	52.48	74.00	-21.52	peak
6	9848.000	10.87	37.57	34.97	38.88	52.35	74.00	-21.65	peak



Report No.: SZEM180600485002

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



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2462 TX RSE

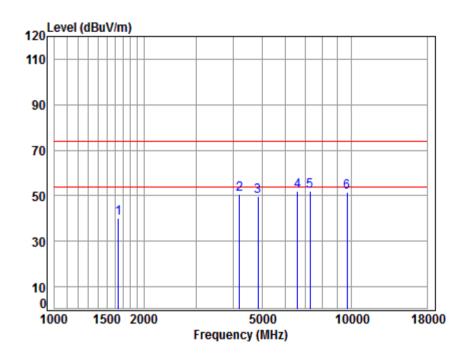
O C		. 2.4	G MILIT	111120							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		1494.455	5.46	25.78	38.04	46.50	39.70	74.00	-34.30	peak	
2		4379.699	7.43	33.60	38.20	47.70	50.53	74.00	-23.47	peak	
3		4924.000	8.01	34.37	38.47	45.67	49.58	74.00	-24.42	peak	
4		6640.542	11.13	35.50	37.64	43.29	52.28	74.00	-21.72	peak	
5		7386.000	10.03	36.34	36.94	41.75	51.18	74.00	-22.82	peak	
6	pp	9848.000	10.87	37.57	34.97	38.94	52.41	74.00	-21.59	peak	



Report No.: SZEM180600485002

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



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2422 TX RSE

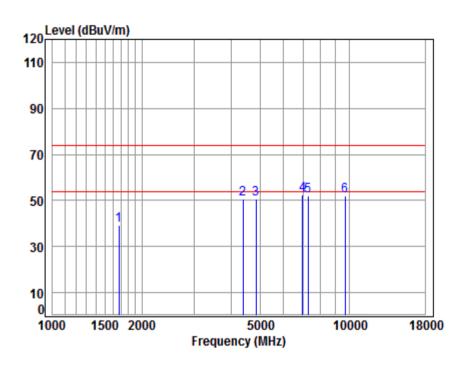
0.0	. 2.7	G 1111 I	11111						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	5.30	26.42	38.03	46.51	40.20	74.00	-33.80	peak
2	4193.872	7.21	33.60	38.11	48.06	50.76	74.00	-23.24	peak
3	4844.000	7.93	34.23	38.43	45.83	49.56	74.00	-24.44	peak
4	6602.265	11.24	35.39	37.68	43.22	52.17	74.00	-21.83	peak
5 pp	7266.000	10.06	36.39	37.05	42.82	52.22	74.00	-21.78	peak
6	9688.000	10.79	37.54	35.05	38.50	51.78	74.00	-22.22	peak



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



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2422 TX RSE

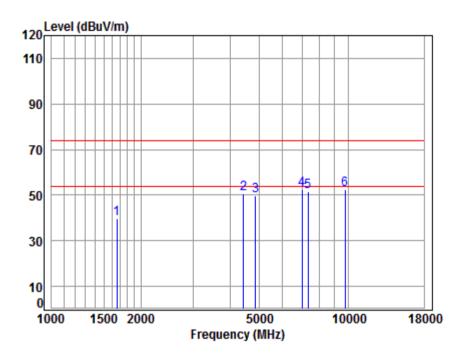
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	5.26	26.56	38.03	45.56	39.35	74.00	-34.65	peak
2	4392.376	7.44	33.60	38.21	47.89	50.72	74.00	-23.28	peak
3	4844.000	7.93	34.23	38.43	46.71	50.44	74.00	-23.56	peak
4 pp	6954.852								-
5	7266.000	10.06	36.39	37.05	42.65	52.05	74.00	-21.95	peak
6	9688.000	10.79	37.54	35.05	38.79	52.07	74.00	-21.93	peak



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



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2437 TX RSE

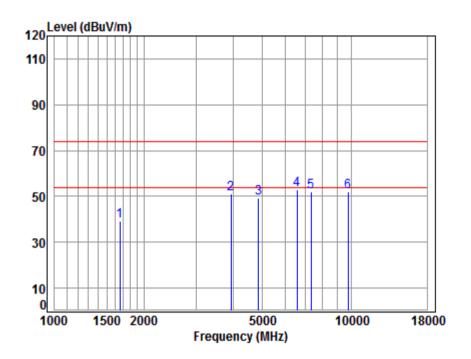
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-						ID 1//	ID 1//		
		MHz	ав	aB/m	dB	aBuv	aBuv/m	aBuv/m	dB	
1		1663.137	5.27	26.52	38.03	45.98	39.74	74.00	-34.26	peak
2		4443.453	7.50	33.60	38.24	47.67	50.53	74.00	-23.47	peak
3		4874.000	7.96	34.28	38.44	46.10	49.90	74.00	-24.10	peak
4		6995.172	10.14	36.49	37.30	43.10	52.43	74.00	-21.57	peak
5		7311.000	10.05	36.37	37.01	42.06	51.47	74.00	-22.53	peak
6	pp	9748.000	10.82	37.55	35.02	39.11	52.46	74.00	-21.54	peak



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



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2437 TX RSE

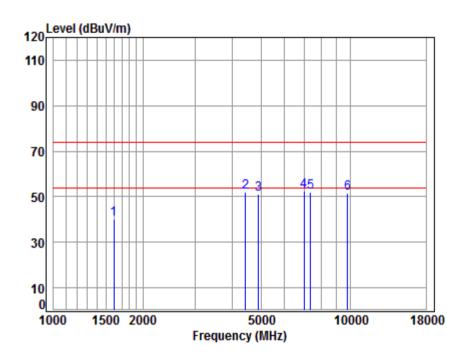
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	5.27	26.52	38.03	45.49	39.25	74.00	-34.75	peak
2	3935.493	6.92	33.43	37.99	48.56	50.92	74.00	-23.08	peak
3	4874.000	7.96	34.28	38.44	45.34	49.14	74.00	-24.86	peak
4	pp 6564.209	11.35	35.29	37.72	43.83	52.75	74.00	-21.25	peak
5	7311.000	10.05	36.37	37.01	42.50	51.91	74.00	-22.09	peak
6	9748.000	10.82	37.55	35.02	38.68	52.03	74.00	-21.97	peak



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



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2452 TX RSE

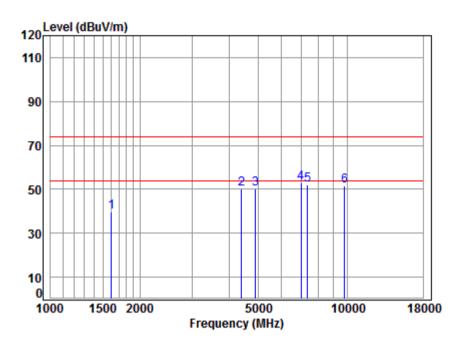
0	. 2.7	G 1111 1	1111110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	5.35	26.24	38.03	46.39	39.95	74.00	-34.05	peak
2	4430.628	7.48	33.60	38.23	48.98	51.83	74.00	-22.17	peak
3	4904.000	7.99	34.33	38.46	47.06	50.92	74.00	-23.08	peak
4	op 6995.172	10.14	36.49	37.30	43.13	52.46	74.00	-21.54	peak
5	7356.000	10.04	36.36	36.97	42.45	51.88	74.00	-22.12	peak
6	9808.000	10.85	37.56	34.99	38.19	51.61	74.00	-22.39	peak



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



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2452 TX RSE

loce	: 2.4	G MILI	111140						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.804	5.35	26.26	38.03	46.07	39.65	74.00	-34.35	peak
2	4405.090	7.46	33.60	38.22	47.50	50.34	74.00	-23.66	peak
3	4904.000	7.99	34.33	38.46	46.21	50.07	74.00	-23.93	peak
4 pp	6995.172	10.14	36.49	37.30	43.43	52.76	74.00	-21.24	peak
5	7356.000	10.04	36.36	36.97	42.68	52.11	74.00	-21.89	peak
6	9808.000	10.85	37.56	34.99	38.04	51.46	74.00	-22.54	peak



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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) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 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.



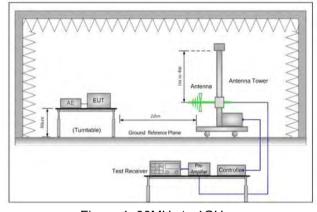
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5.10 Restricted bands around fundamental frequency

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





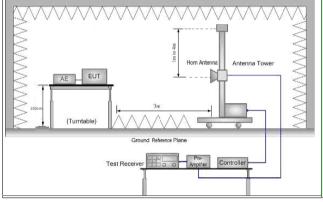


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
Test Procedure:	e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	h. Test the EUT in the lowest channel , the Highest channel
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
	j. Repeat above procedures until all frequencies measured was complete.
Exploratory Toot Mode:	Transmitting with all kind of modulations, data rates.
Exploratory Test Mode:	Charge + Transmitting mode.
	Pretest the EUT at Charge +Transmitting mode.
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
Final Test Mode:	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).
	Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

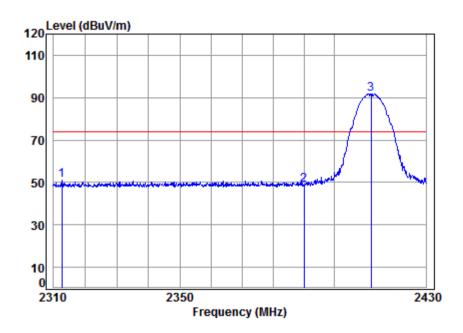


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Test plot as follows:

Worse case mode: 802.11	b Test channel:	Lowest F	Remark: F	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2412 Band edge

: 2.4G WIFI 11B

: Powersetting 15

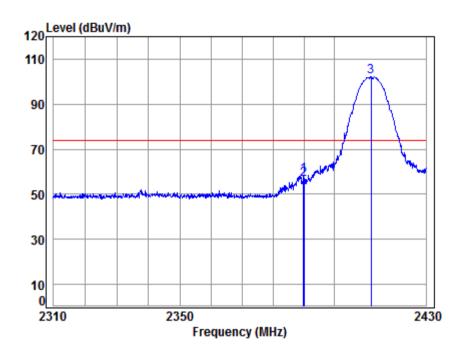
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2312.692	5.37	28.39	41.84	59.12	51.04	74.00	-22.96	Peak
2	2390.000	5.47	28.52	41.87	56.72	48.84	74.00	-25.16	Peak
3 рр	2412.000	5.50	28.56	41.88	99.58	91.76	74.00	17.76	Peak



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Worse case mode: 802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2412 Band edge

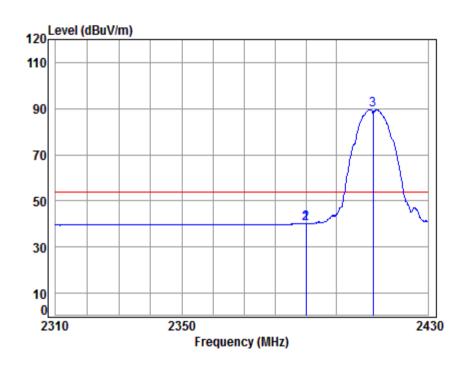
Frea Lo	ss Factor					Over Limit	Remark
	dB dB/m					dB	
1 2389.847 5. 2 2390.000 5. 3 pp 2412.000 5.	47 28.52	41.87	64.47	56.59	74.00	-17.41	peak



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802.11b Test channel: Remark: Worse case mode: Lowest Average Vertical



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2412 Band edge

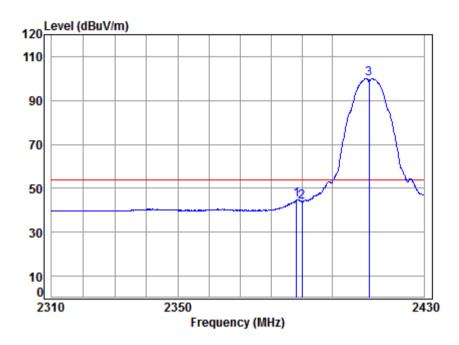
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	28.52	41.87	48.26	40.38	54.00	-13.62	Average
2	2390.000	5.47	28.52	41.87	48.26	40.38	54.00	-13.62	Average
3 рр	2412.000	5.50	28.56	41.88	97.46	89.64	54.00	35.64	Average
									_



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Worse case mode: 802.11b Test channel: Lowest Remark: Average Horizontal



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2412 Band edge

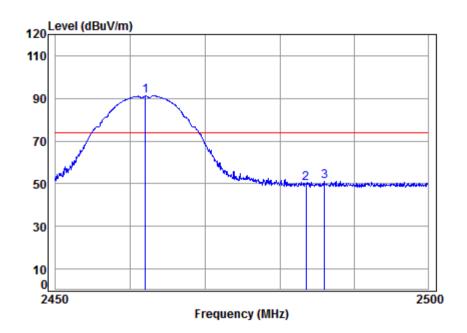
		Freq					Level			Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1		2388.274	5.47	28.52	41.87	52.78	44.90	54.00	-9.10	Average	
2		2390.000	5.47	28.52	41.87	51.62	43.74	54.00	-10.26	Average	
3	ממ	2412.000	5.50	28.56	41.88	107.89	100.07	54.00	46.07	Average	



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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 4850RG

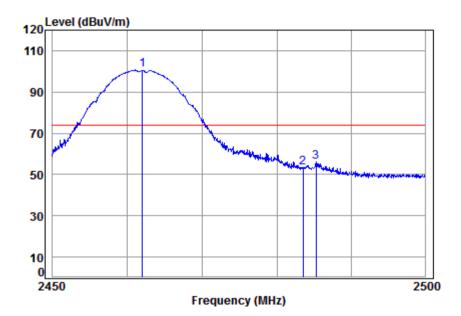
Mode : 2462 Band edge

		. FOW	ersect	TIIR TO							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	2462.000	5.57	28.64	41.90	99.00	91.31	74.00	17.31	Peak	
2		2483.500	5.60	28.67	41.91	57.68	50.04	74.00	-23.96	Peak	
3		2485.999	5.60	28.68	41.91	58.93	51.30	74.00	-22.70	Peak	



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Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2462 Band edge

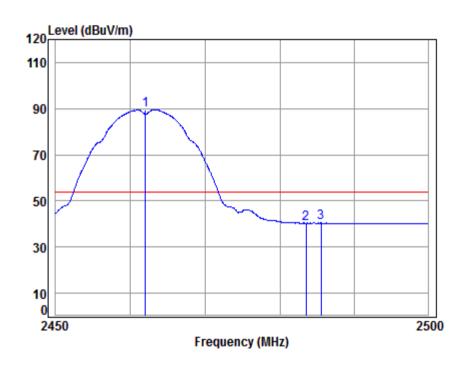
Free					Laural			Damanla.
Freq	LOSS	Factor	Factor	revei	revei	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.57	28.64	41.90	108.30	100.61	74.00	26.61	peak
2 2483.500	5.60	28.67	41.91	60.96	53.32	74.00	-20.68	peak
3 2485.245	5.60	28.68	41.91	63.60	55.97	74.00	-18.03	peak



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802.11b Test channel: Remark: Worse case mode: Highest Average Vertical



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2462 Band edge

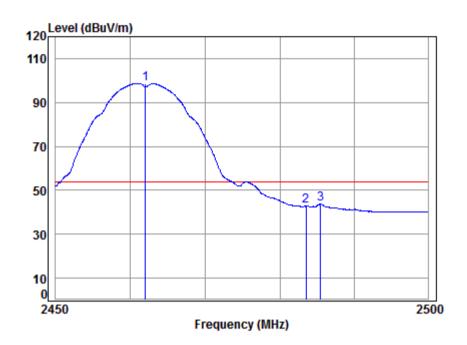
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1 pp	2462.000	5.57	28.64	41.90	97.10	89.41	54.00	35.41	Average	
2	2483.500	5.60	28.67	41.91	47.99	40.35	54.00	-13.65	Average	
3	2485.546	5.60	28.68	41.91	48.11	40.48	54.00	-13.52	Average	



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802.11b Test channel: Remark: Worse case mode: Highest Average Horizontal



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2462 Band edge

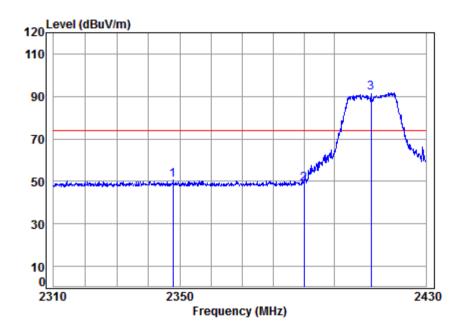
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	28.64	41.90	106.47	98.78	54.00	44.78	Average
2	2483.500	5.60	28.67	41.91	50.37	42.73	54.00	-11.27	Average
3	2485.446	5.60	28.68	41.91	51.34	43.71	54.00	-10.29	Average



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Worse case mode: 80	302.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2412 Band edge

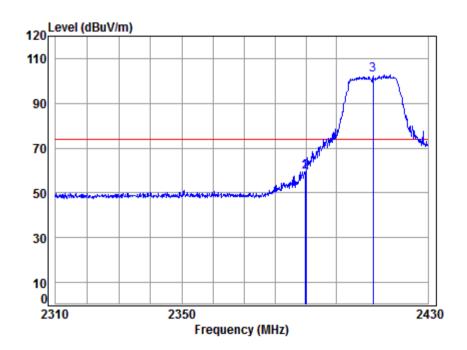
			8						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2347.860	5.42	28.45	41.85	58.84	50.86	74.00	-23.14	Peak
2	2390.000			41.87					
_									
3	pp 2412.000	5.50	28.56	41.88	99.55	91.73	74.00	17.73	Peak



Report No.: SZEM180600485002

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Worse case mode: 802.	1g Test channel:	Lowest Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2412 Band edge

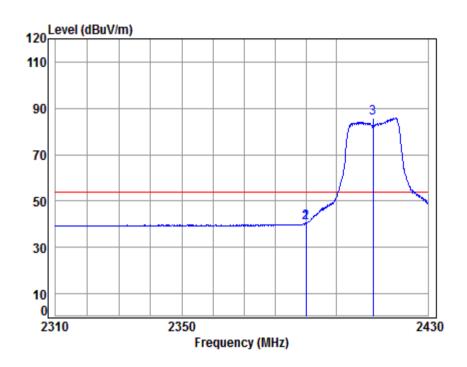
		Freq		Ant Factor						Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.726	5.47	28.52	41.87	67.33	59.45	74.00	-14.55	peak
2		2390.000	5.47	28.52	41.87	67.25	59.37	74.00	-14.63	peak
3	pp	2412.000	5.50	28.56	41.88	110.45	102.63	74.00	28.63	peak



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802.11g Test channel: Lowest Remark: Average Vertical Worse case mode:



Condition: 3m VERTICAL

: 4850RG Job No

1

2

Mode : 2412 Band edge

> : 2.4G WIFI 11G : Powersetting 15

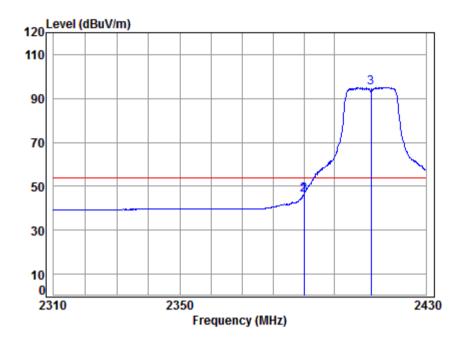
Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark Freq MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2389.968 5.47 28.52 41.87 48.37 40.49 54.00 -13.51 Average 2390.000 5.47 28.52 41.87 48.37 40.49 54.00 -13.51 Average 3 pp 2412.000 5.50 28.56 41.88 93.57 85.75 54.00 31.75 Average



Report No.: SZEM180600485002

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Worse case mode: 802.11g Test channel: Lowest Remark: Average Horizontal



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2412 Band edge

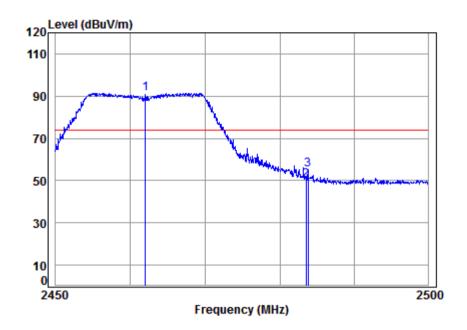
		Freq						Limit Line		
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	5.47	28.52	41.87	53.96	46.08	54.00	-7.92	Average
2		2390.000	5.47	28.52	41.87	53.96	46.08	54.00	-7.92	Average
3	pp	2412.000	5.50	28.56	41.88	102.84	95.02	54.00	41.02	Average



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Worse case mode: 802.11g Test channel: Highest Remark: Peak Vertical
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Condition: 3m VERTICAL

: 4850RG Job No

3

Mode : 2462 Band edge

> : 2.4G WIFI 11G : Powersetting 15

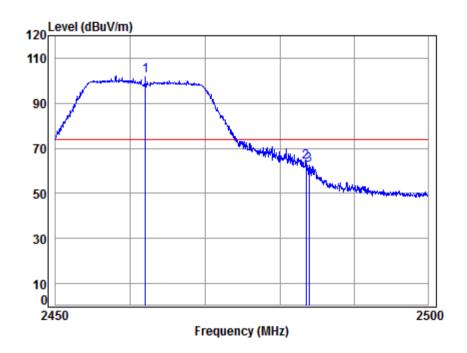
Ant Preamp Read Limit Loss Factor Factor Limit Remark Freq Level Level Line dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 28.64 41.90 99.12 1 pp 2462.000 5.57 91.43 74.00 17.43 Peak 2483.500 5.60 28.67 41.91 57.84 50.20 74.00 -23.80 Peak 2483.790 5.60 28.67 41.91 62.82 55.18 74.00 -18.82 Peak



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Worse case mode: 802.11g Test channel: Highest Remark: Peak Horiz



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2462 Band edge

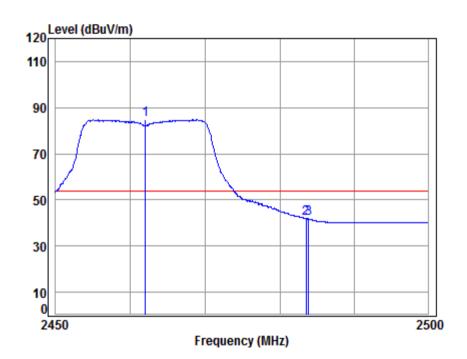
	. FOW	er sect.	TIIR TO							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
			-							
1 pp	2462.000	5.57	28.64	41.90	109.89	102.20	74.00	28.20	peak	
2	2483.500	5.60	28.67	41.91	71.63	63.99	74.00	-10.01	peak	
3	2483.940	5.60	28.67	41.91	70.25	62.61	74.00	-11.39	peak	



Report No.: SZEM180600485002

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Worse case mode: 802.11g Test channel: Highest Remark: Average Vertical



Condition: 3m VERTICAL

Job No : 4850RG

1 2 3

Mode : 2462 Band edge

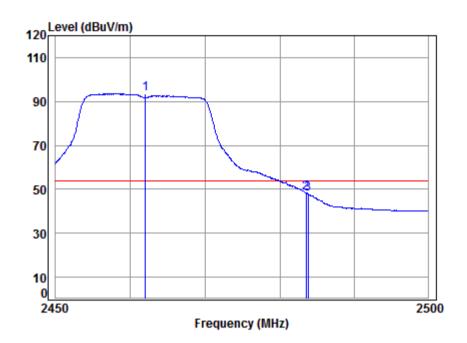
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
pp	2462.000	5.57	28.64	41.90	92.50	84.81	54.00	30.81	Average	
	2483.500	5.60	28.67	41.91	49.63	41.99	54.00	-12.01	Average	
	2483.840	5.60	28.67	41.91	49.41	41.77	54.00	-12.23	Average	



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Worse case mode: 802.11g Test channel: Highest Remark: Average Horizontal



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2462 Band edge

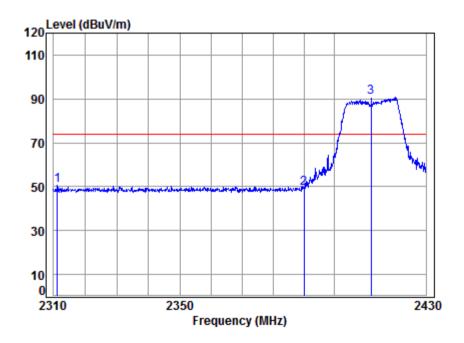
	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	28.64	41.90	101.23	93.54	54.00	39.54	Average
2	2483.500	5.60	28.67	41.91	56.09	48.45	54.00	-5.55	Average
3	2483.790	5.60	28.67	41.91	55.57	47.93	54.00	-6.07	Average



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Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Peak | Vertical



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2412 Band edge

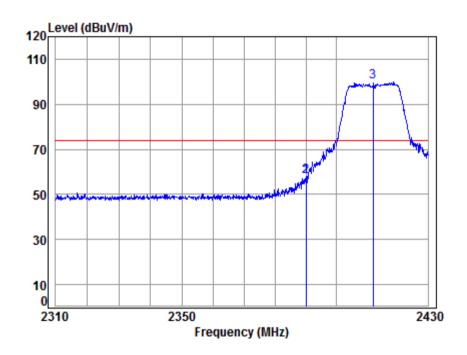
				1118 12							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1		2311.170	5.37	28.38	41.84	58.78	50.69	74.00	-23.31	Peak	
2		2390.000	5.47	28.52	41.87	56.95	49.07	74.00	-24.93	Peak	
		2412.000									



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Worse case mode: 802.1	I1n(HT20) Test channel:	Lowest Remark	:: Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2412 Band edge

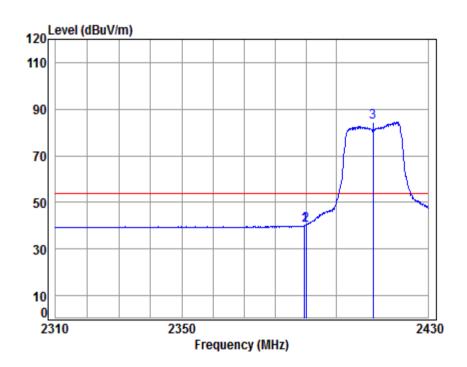
			0						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			•						
1	2389.968	5.47	28.52	41.87	65.62	57.74	74.00	-16.26	peak
	2390.000								•
	p 2412.000								•
									F = =



Report No.: SZEM180600485002

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



Condition: 3m VERTICAL

Job No : 4850RG

: 2412 Band edge Mode

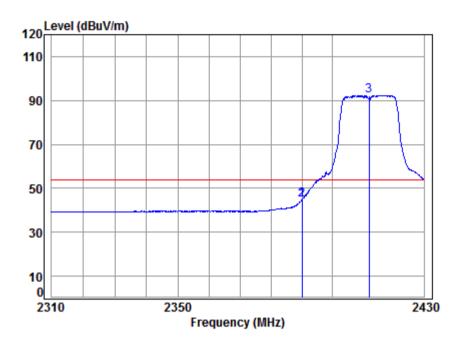
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 2 3 pp	2389.484 2390.000 2412.000	5.47	28.52	41.87	47.97	40.09	54.00	-13.91	Average



Report No.: SZEM180600485002

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Worse case mode: | 802.11n(HT20) | Test channel: | Lowest | Remark: | Average | Horizontal



Condition: 3m HORIZONTAL

Job No : 4850RG

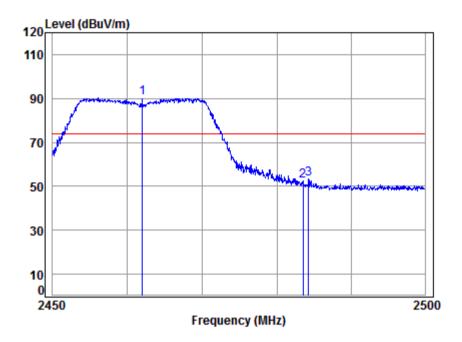
Mode : 2412 Band edge

Frea	Cable Ant Loss Factor						Remark
	dB dB/m					dB	
1 2389.968 2 2390.000 3 pp 2412.000	5.47 28.52	41.87	52.79	44.91	54.00	-9.09	Average



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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2462 Band edge

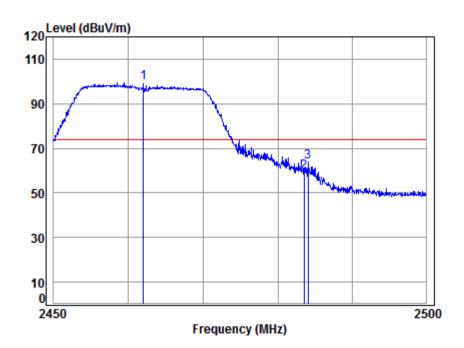
		8						
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.57	28.64	41.90	98.23	90.54	74.00	16.54	Peak
2 2483.500								
3 2484.292								



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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 4850RG

1 2 3

Mode : 2462 Band edge

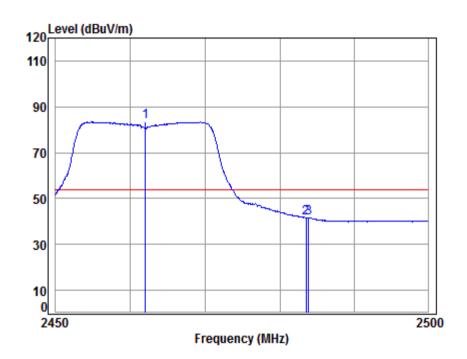
	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
248	3.500	5.60	28.67	41.91	67.08	59.44	74.00 74.00 74.00	-14.56	peak



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



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2462 Band edge

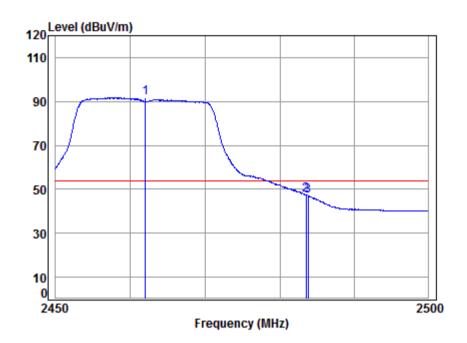
	. 1000		T118 T2							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p	2462.000	5.57	28.64	41.90	91.03	83.34	54.00	29.34	Average	
2	2483.500	5.60	28.67	41.91	49.17	41.53	54.00	-12.47	Average	
3	2483.890	5.60	28.67	41.91	49.14	41.50	54.00	-12.50	Average	



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



Condition: 3m HORIZONTAL

Job No : 4850RG

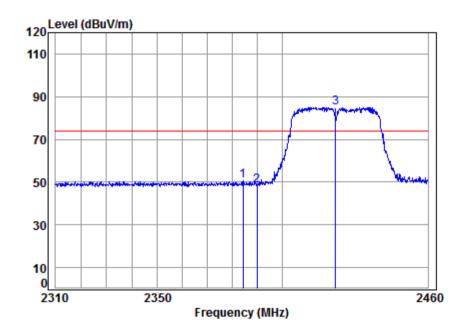
Mode : 2462 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	28.64	41.90	99.39	91.70	54.00	37.70	Average
2	2483.500	5.60	28.67	41.91	54.96	47.32	54.00	-6.68	Average
3	2483.790	5.60	28.67	41.91	54.76	47.12	54.00	-6.88	Average



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Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2422 Band edge

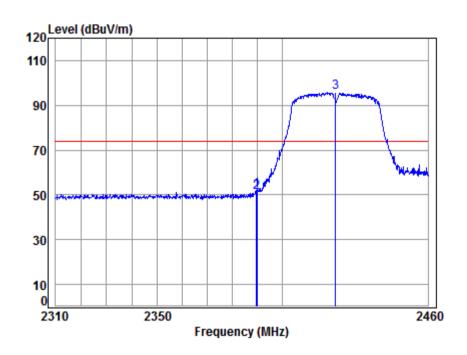
		Freq			Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2384.271	5.47	28.51	41.87	58.33	50.44	74.00	-23.56	Peak
2		2390.000	5.47	28.52	41.87	56.15	48.27	74.00	-25.73	Peak
3	pp	2422.000	5.52	28.57	41.89	92.86	85.06	74.00	11.06	Peak



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Worse case mode. 602.1111(11140) Test chamile. Lowest Remark. Test	Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2422 Band edge

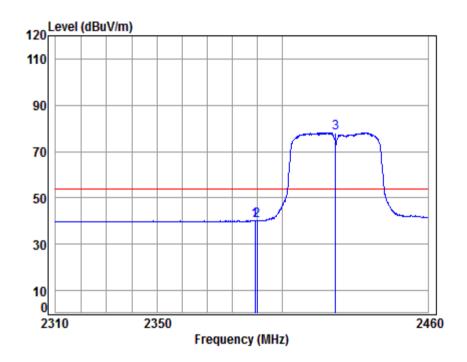
	Freq				Read Level				Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.47	28.52	41.87	60.12	52.24	74.00	-21.76	peak
2	2390.000	5.47	28.52	41.87	59.17	51.29	74.00	-22.71	peak
3 pp	2422.000	5.52	28.57	41.89	103.42	95.62	74.00	21.62	peak



Report No.: SZEM180600485002

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



Condition: 3m VERTICAL

Job No : 4850RG

Mode : 2422 Band edge

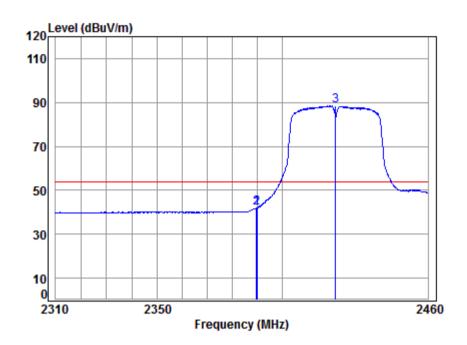
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.226	5.47	28.52	41.87	47.95	40.07	54.00	-13.93	Average
2	2390.000	5.47	28.52	41.87	47.86	39.98	54.00	-14.02	Average
3 рр	2422.000	5.52	28.57	41.89	85.84	78.04	54.00	24.04	Average



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



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2422 Band edge

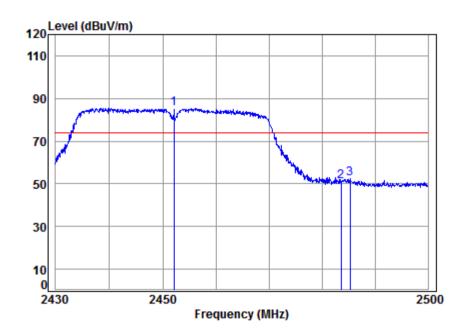
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.47	28.52	41.87	49.85	41.97	54.00	-12.03	Average
2	2390.000	5.47	28.52	41.87	49.68	41.80	54.00	-12.20	Average
3 pp	2422.000	5.52	28.57	41.89	96.22	88.42	54.00	34.42	Average



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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 4850RG

1 2 3

Mode : 2452 Band edge

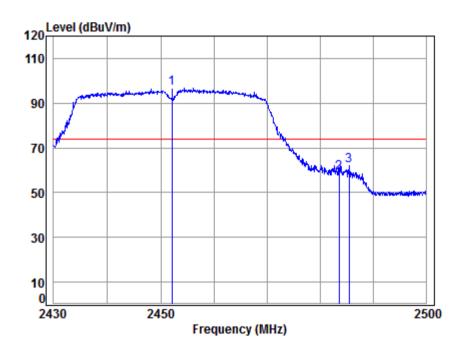
Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
pp 2452.000 2483.500 2485.205	5.60	28.67	41.91	58.72	51.08	74.00	-22.92	Peak



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Worse case mode: 802.11n(HT40) Test channel: Highest Remark: Peak I



Condition: 3m HORIZONTAL

Job No : 4850RG

Mode : 2452 Band edge

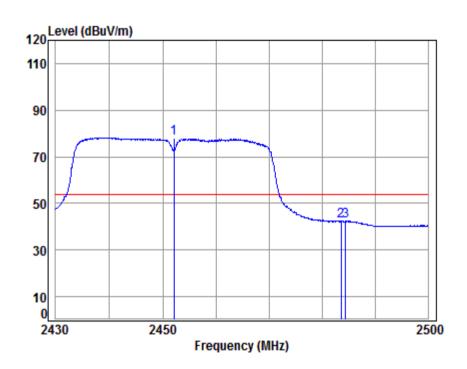
		Freq					Level			Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	рр	2452.000	5.56	28.62	41.90	104.40	96.68	74.00	22.68	peak	
2		2483.500	5.60	28.67	41.91	66.41	58.77	74.00	-15.23	peak	
3		2485.346	5.60	28.68	41.91	69.67	62.04	74.00	-11.96	peak	



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



Condition: 3m VERTICAL

Job No : 4850RG

1 2 3

Mode : 2452 Band edge

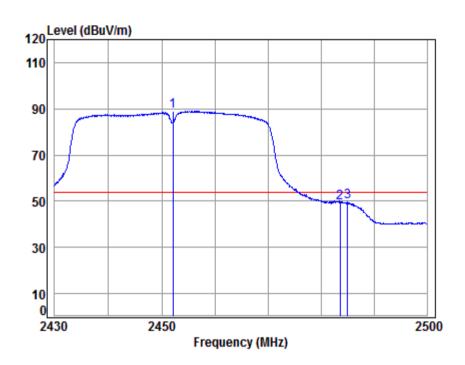
	· · · · · · · · · · · · · · · · · · ·									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
pp	2452.000	5.56	28.62	41.90	85.94	78.22	54.00	24.22	Average	
	2483.500	5.60	28.67	41.91	49.86	42.22	54.00	-11.78	Average	
	2484.358								_	



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



Condition: 3m HORIZONTAL

Job No : 4850RG

2

Mode : 2452 Band edge

		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
pp	2452.000	5.56	28.62	41.90	96.69	88.97	54.00	34.97	Average	
	2483.500	5.60	28.67	41.91	56.86	49.22	54.00	-4.78	Average	
	2484.923	5.60	28.68	41.91	57.25	49.62	54.00	-4.38	Average	



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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

6 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1806004850RG.

The End