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Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM170800926002

Email: ee.shenzhen@sgs.com Page: 1 of 113

FCC REPORT

Application No: SZEM1708009260RG

Applicant: Huawei Technologies Co., Ltd.

Manufacturer: Huawei Technologies Co., Ltd.

Factory: DBG TECHNOLOGY CO., LTD

Product Name: HUAWEI MediaPad M3 Lite 10 wp

Model No.(EUT): HDN-W09

Trade Mark: HUAWEI

FCC ID: QISHDN-W09

Standards: 47 CFR Part 15, Subpart C (2015)

Test Method KDB 558074 D01 558074 D01 DTS Meas Guidance v04

ANSI C63.10 2013

Date of Receipt: 2017-09-08

Date of Test: 2017-09-11 to 2017-10-24

Date of Issue: 2017-10-24

Test Result: PASS *

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

Authorized Signature:

Derek Yang

Derole yang

Wireless Laboratory Manager

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2 Version

	Revision Record							
Version Chapter Date Modifier Remark								
01		2017-10-24		Original				

Authorized for issue by:		
Tested By	Mike Mu	2017-10-24
	(Mike Hu) /Project Engineer	Date
Checked By	Jan Hog	2017-10-24
	(Jim Huang) /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 Emissions	47 CFR Part 15, Subpart C Section 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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5 General Information

5.1 Client Information

Applicant:	Huawei Technologies Co., Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co., Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C
Factory:	DBG TECHNOLOGY CO., LTD
Address of Factory:	No.5, Yongda Road, Xiangshui River Industrial Area, Daya Bay, Huizhou, Guangdong, China

5.2 General Description of EUT

Product Name:	HUAWEI MediaPad M3 Lite 10 wp		
Model No.:	HDN-W09		
Trade Mark:	HUAWEI		
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		
Charmer 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:	Portable production		
Antenna Type:	Monopole		
Antenna Gain:	0.2dBi		
Power Supply	DC3.8V (1 x 3.8V Rechargeable battery) 6660mAh		
Fower Supply	Battery: Charge by DC 4.35V		
	Model: HW-050200U01/HW-059200UHQ		
AC adaptor:	Input: AC100-240V 50/60Hz 0.5A		
	Output: DC5.0V 2A or 9V 2A		



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Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fr	equency	Channe	I Frequency	Channel	Fre	quency Char		nnel	Frequency
1	24	412MHz	4	2427MHz	7	244	42MHz	10)	2457MHz
2	24	417MHz	5	2432MHz	8	244	17MHz 1 ·		1	2462MHz
3	24	422MHz	6	2437MHz	9	245	2452MHz			
Operation F	Operation Frequency each of channel(802.11n HT40)									
Channe	l	Frequ	ency	Channel	Frequen	су	Chan	nel		Frequency
3	3 2422MHz		MHz	6	2437MHz		9			2452MHz
4	4 2427MHz		MHz	7	2442MF	lz				
5 2432MHz			ИНz	8	2447MH	łz				

Note:

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

For 802.11b/g/n (HT20):

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

For 802.11n (HT40):

0. 00=((
Channel	Frequency			
The Lowest channel	2422MHz			
The Middle channel	2437MHz			
The Highest channel	2452MHz			



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5.3 Test Environment and Mode

Operating Environment:					
Temperature:	25.0 °C				
Humidity:	50 % RH				
Atmospheric Pressure:	1010 mbar				
Test mode:					
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.				

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 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.

5.6 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.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 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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5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

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

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	3.12 dB(9KHz- 30MHz)		
6	Temperature test	1℃		
7	Humidity test	3%		
8	DC and low frequency voltages	0.5%		



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5.11 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	2017-05-10	2018-05-10		
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2017-10-09	2018-10-09		
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-14		
4	8 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T8- 02	EMC0120	2017-09-28	2018-09-28		
5	4 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T4- 02	EMC0121	2017-09-28	2018-09-28		
6	2 Line ISN	Fischer Custom Communications Inc.	FCC- TLISN-T2- 02	EMC0122	2017-09-28	2018-09-28		
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2017-04-14	2018-04-14		
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-10-09	2018-10-09		

	RF connected test							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Duedate (yyyy-mm-dd)		
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-10-09	2018-10-09		
2	Signal Analyzer	Rohde &Schwarz	FSV	W005-02	2017-03-06	2018-03-06		
3	Signal Generator	Rohde &Schwarz	SML03	SEM006-02	2017-04-14	2018-04-14		
4	Power Meter	Rohde &Schwarz	NRVS	SEM014-02	2017-10-09	2018-10-09		
5	Power Sensor	Agilent Technologies	U2021XA	SEM009-01	2017-10-09	2018-10-09		



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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	ETS-LINDGREN	N/A	SEM001-01	2017-05-10	2018-05-10	
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2017-10-09	2018-10-09	
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01	
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	2014-11-24	2017-11-24	
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2017-04-14	2018-04-14	
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A	
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-10-09	2018-10-09	
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13	

	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	2017-05-10	2018-05-10		
2	EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2017-04-14	2018-04-14		
3	Trilog-Broadband Antenna(30M-1GHz)	Schwarzbeck	VULB9168	SEM003-18	2016-06-29	2019-06-29		
4	Pre-amplifier	Sonoma Instrument Co	310N	SEM005-03	2017-07-06	2018-07-06		
5	.Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14		



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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	2017-05-10	2018-05-10	
2	EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-09	2017-07-19	2018-07-19	
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15	
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2017-10-09	2018-10-09	
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14	
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24	
7	HornAntenna (26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12	
8	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2017-10-09	2018-10-09	
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A	



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6 Test results and Measurement Data

6.1 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 0.2dBi.



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6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
		Limit (c	dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
Limit:	0.15-0.5	66 to 56*	56 to 46*		
Littiit.	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.		ļ	
Test Procedure:	 Decreases with the logarithm 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 was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to 				
Test Setup:	Shielding Room EUT AC Mains LISN1	Ground Reference Plane	Test Receiver		

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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
	Charge + Transmitting mode.
First Tost Made	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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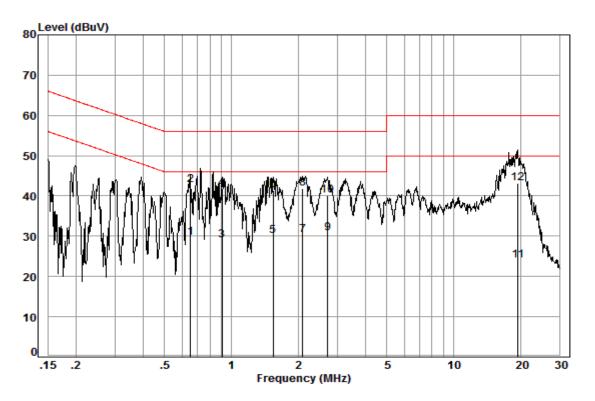
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Measurement Data

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. : 09260RG

Test mode: e

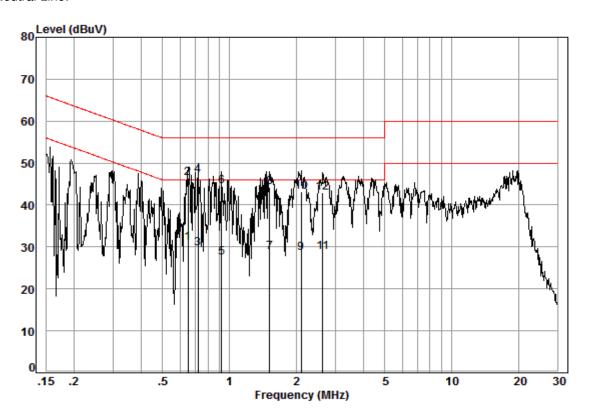
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.65	0.02	9.64	19.91	29.57	46.00	-16.43	Average
2	0.65	0.02	9.64	33.06	42.72	56.00	-13.28	QP
3	0.91	0.02	9.64	19.30	28.96	46.00	-17.04	Average
4	0.91	0.02	9.64	32.20	41.86	56.00	-14.14	QP
5	1.54	0.02	9.65	20.46	30.13	46.00	-15.87	Average
6	1.54	0.02	9.65	31.75	41.42	56.00	-14.58	QP
7	2.10	0.02	9.66	20.65	30.33	46.00	-15.67	Average
8	2.10	0.02	9.66	32.24	41.92	56.00	-14.08	QP
9	2.72	0.02	9.66	21.08	30.76	46.00	-15.24	Average
10	2.72	0.02	9.66	30.45	40.13	56.00	-15.87	QP
11	19.53	0.02	10.18	13.85	24.05	50.00	-25.95	Average
12	19.53	0.02	10.18	32.93	43.13	60.00	-16.87	QP



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Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 09260RG

Test mode: e

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.65	0.02	9.64	21.19	30.85	46.00	-15.15	Average
2	0.65	0.02	9.64	36.70	46.36	56.00	-9.64	QP
3	0.72	0.02	9.64	20.02	29.68	46.00	-16.32	Average
4	0.72	0.02	9.64	37.37	47.03	56.00	-8.97	QP
5	0.92	0.02	9.64	17.83	27.49	46.00	-18.51	Average
6	0.92	0.02	9.64	34.84	44.50	56.00	-11.50	QP
7	1.52	0.02	9.65	19.15	28.82	46.00	-17.18	Average
8	1.52	0.02	9.65	34.67	44.34	56.00	-11.66	QP
9	2.11	0.02	9.66	18.94	28.62	46.00	-17.38	Average
10	2.11	0.02	9.66	33.39	43.07	56.00	-12.93	QP
11	2.64	0.02	9.66	19.18	28.86	46.00	-17.14	Average
12	2.64	0.02	9.66	33.16	42.84	56.00	-13.16	QP

Notes:

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

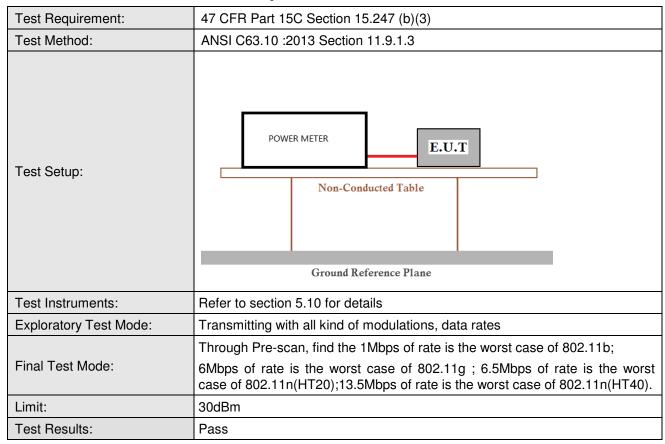
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6.3 Conducted Peak Output Power





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Measurement Data

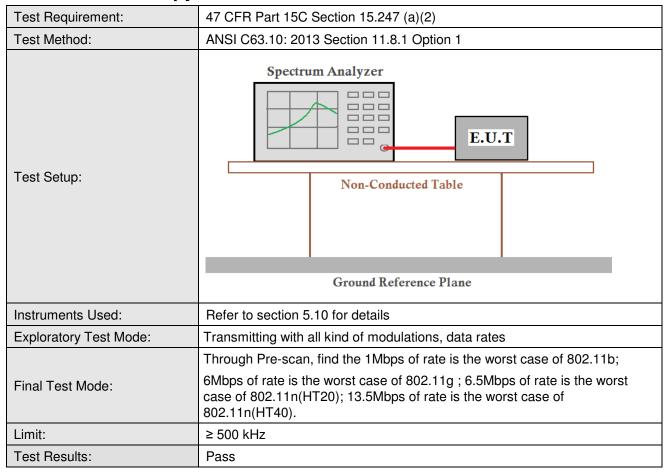
Measurement Data						
	802.11b mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	17.21	30.00	Pass			
Middle	17.00	30.00	Pass			
Highest	17.26	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	19.65	30.00	Pass			
Middle	22.54	30.00	Pass			
Highest	19.34	30.00	Pass			
	802.11n(HT20)	mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	18.03	30.00	Pass			
Middle	21.56	30.00	Pass			
Highest	18.11	30.00	Pass			
	802.11n(HT40)mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	17.02	30.00	Pass			
Middle	21.16	30.00	Pass			
Highest	16.98	30.00	Pass			



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6.4 6dB Occupy Bandwidth





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Measurement Data

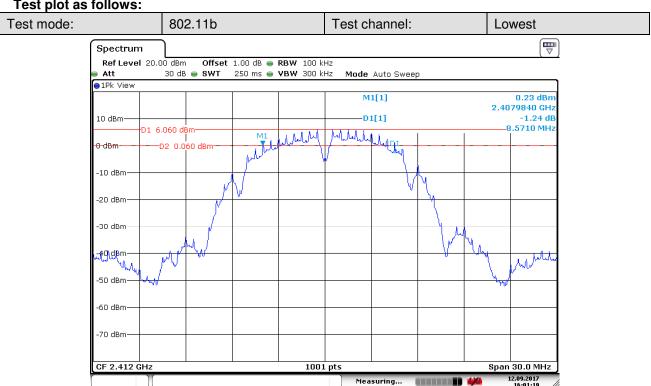
isurement Data	_		
	802.11b mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	8.57	≥500	Pass
Middle	8.60	≥500	Pass
Highest	8.60	≥500	Pass
	802.11g mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.09	≥500	Pass
Middle	16.42	≥500	Pass
Highest	16.36	≥500	Pass
	802.11n(HT20) mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.09	≥500	Pass
Middle	16.15	≥500	Pass
Highest	16.09	≥500	Pass
	802.11n(HT20) mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.23	≥500	Pass
Middle	17.47	≥500	Pass
Highest	17.56	≥500	Pass
	802.11n(HT40) mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	35.13	≥500	Pass
Middle	36.08	≥500	Pass
Highest	33.93	≥500	Pass



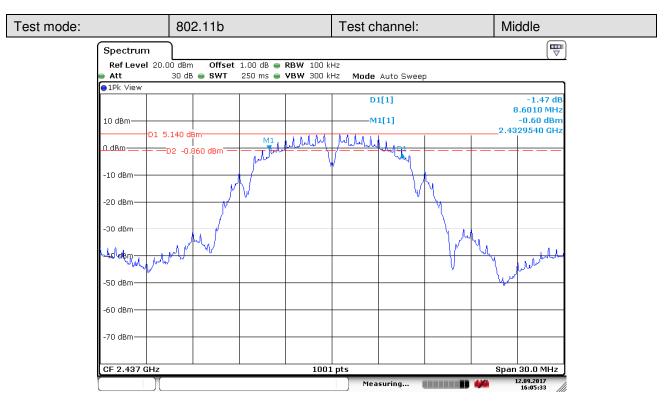
Report No.: SZEM170800926002

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Test plot as follows:



Date: 12.SEP.2017 16:01:19

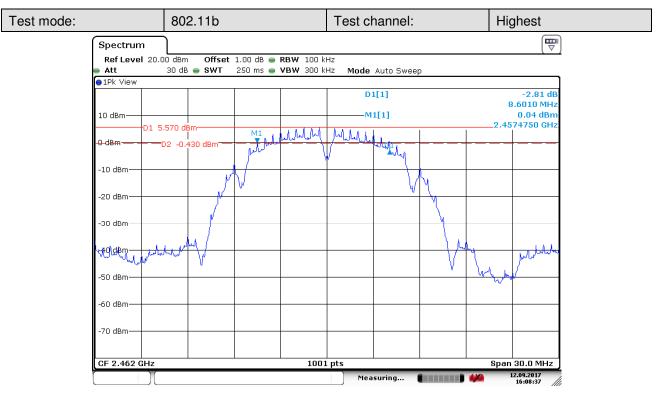


Date: 12.SEP.2017 16:05:34

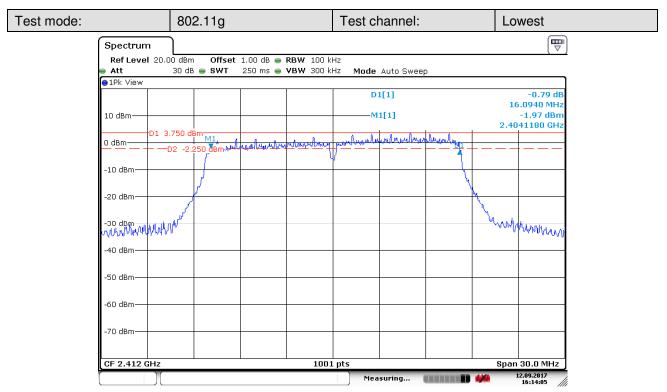


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Date: 12.SEP.2017 16:08:37

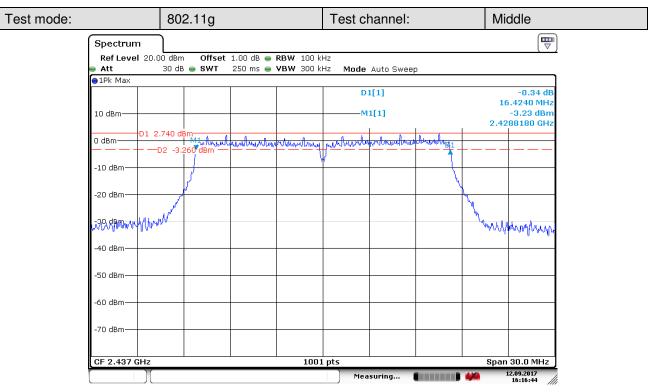


Date: 12.SEP.2017 16:14:05

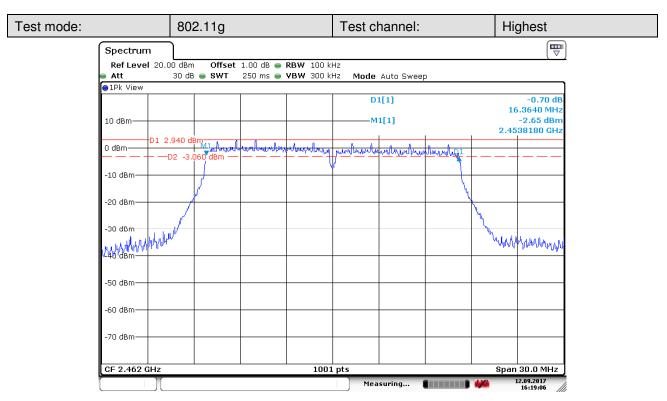


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Date: 12.SEP.2017 16:16:44

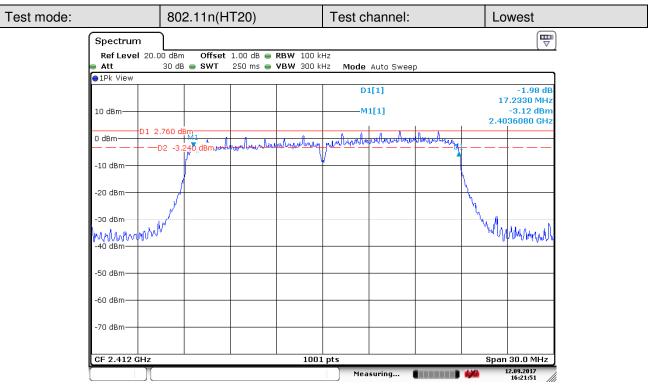


Date: 12.SEP.2017 16:19:07

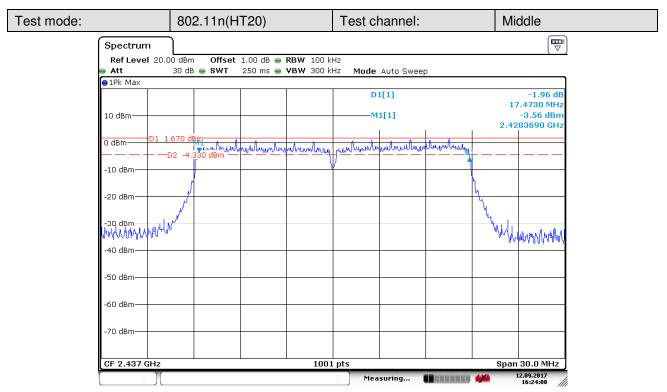


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Date: 12.SEP.2017 16:21:52

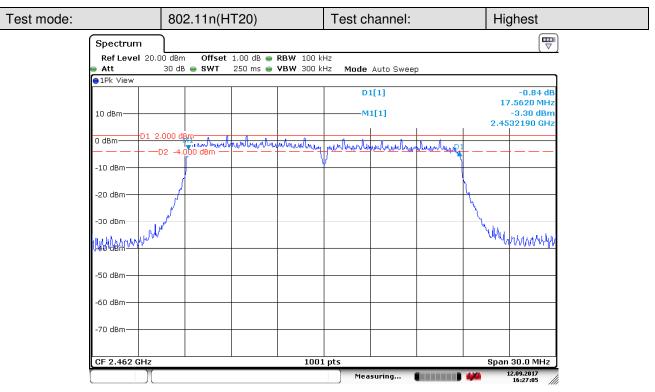


Date: 12.SEP.2017 16:24:08

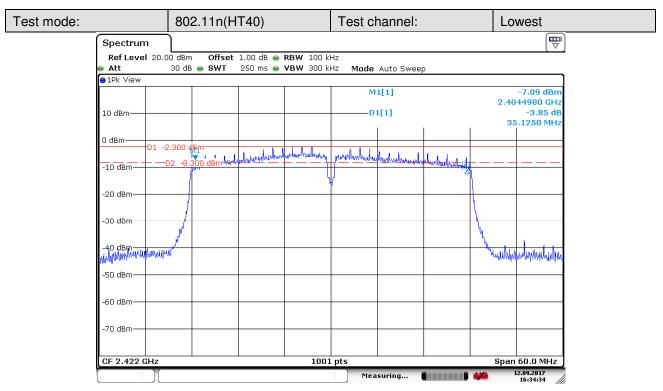


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Date: 12.SEP.2017 16:27:05

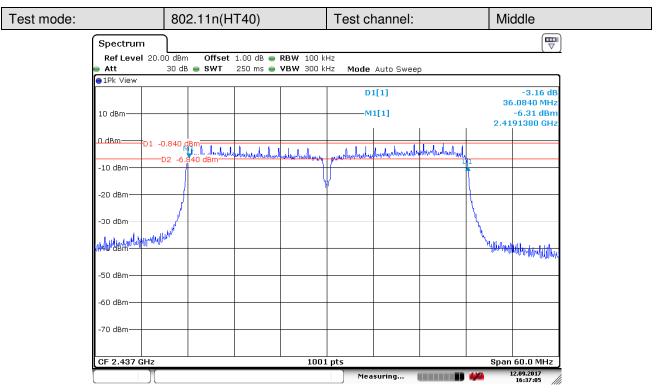


Date: 12.SEP.2017 16:34:34

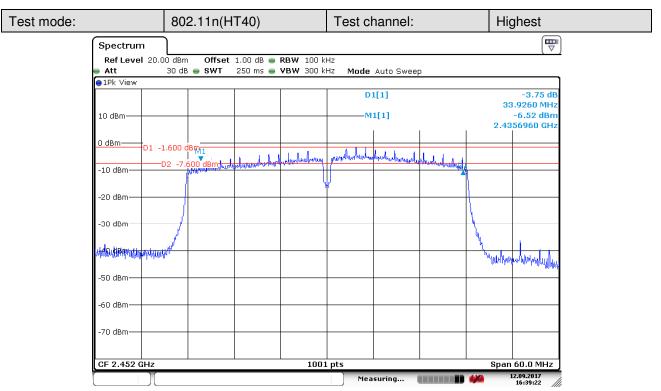


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Date: 12.SEP.2017 16:37:05



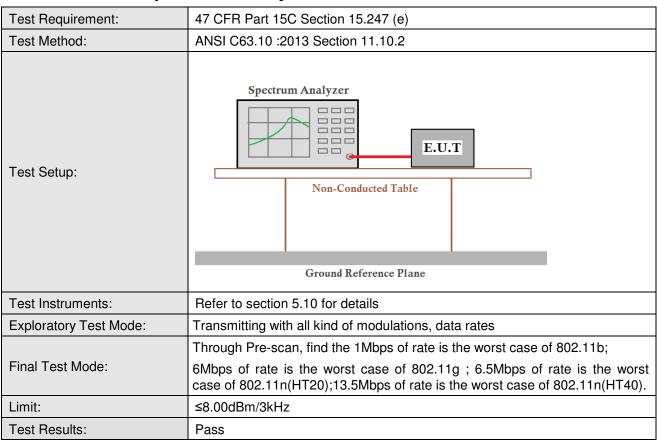
Date: 12.SEP.2017 16:39:23



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6.5 Power Spectral Density





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Measurement Data

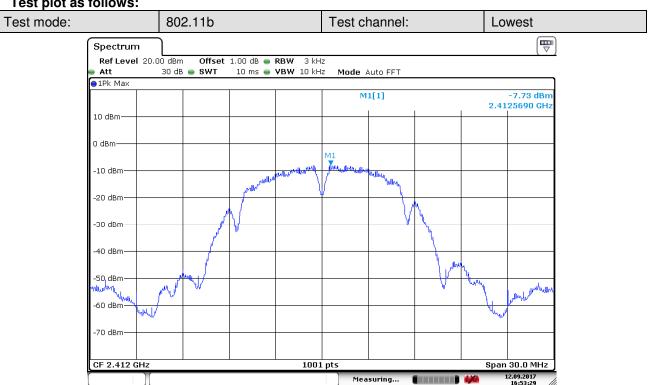
802.11b mode						
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	-7.73	≤8.00	Pass			
Middle	-8.45	≤8.00	Pass			
Highest	-8.49	≤8.00	Pass			
riighest	802.11g mode	20.00	1 433			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	-7.86	≤8.00	Pass			
Middle	-8.77	≤8.00	Pass			
Highest	-8.61	≤8.00	Pass			
•	802.11n(HT20) mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	-9.19	≤8.00	Pass			
Middle	-10.23	≤8.00	Pass			
Highest	-10.54	≤8.00	Pass			
_	802.11n(HT40) mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result			
Lowest	-14.73	≤8.00	Pass			
Middle	-13.98	≤8.00	Pass			
Highest	-13.61	≤8.00	Pass			



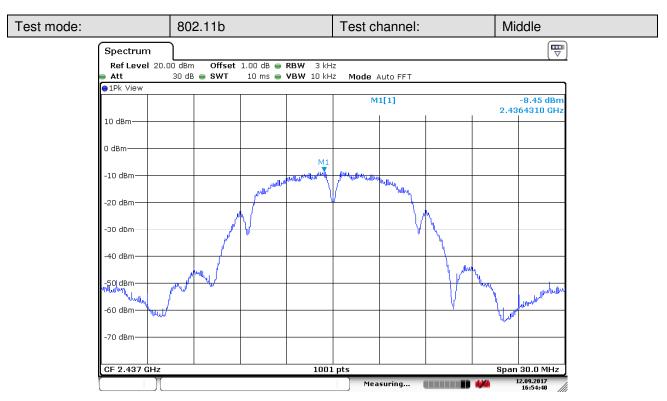
Report No.: SZEM170800926002

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Test plot as follows:



Date: 12.SEP.2017 16:53:29

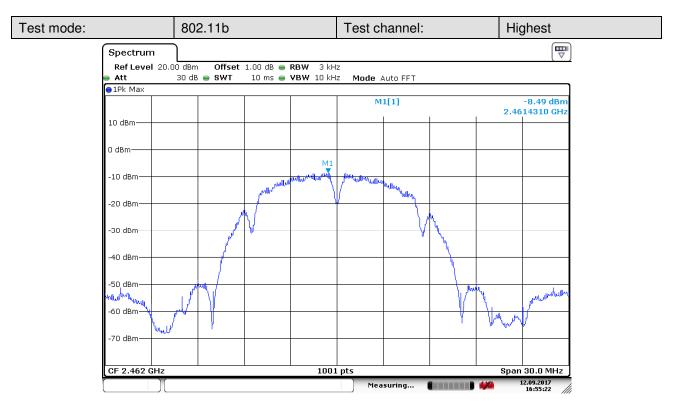


Date: 12.SEP.2017 16:54:40

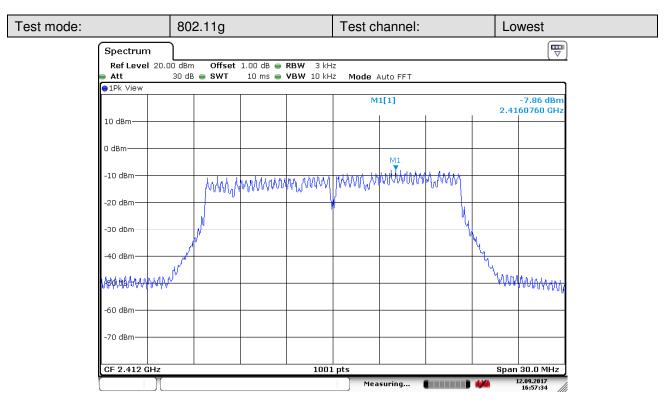


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Date: 12.SEP.2017 16:55:22

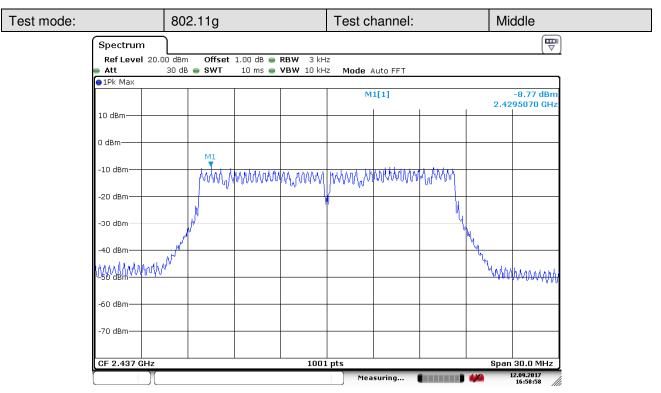


Date: 12.SEP.2017 16:57:35

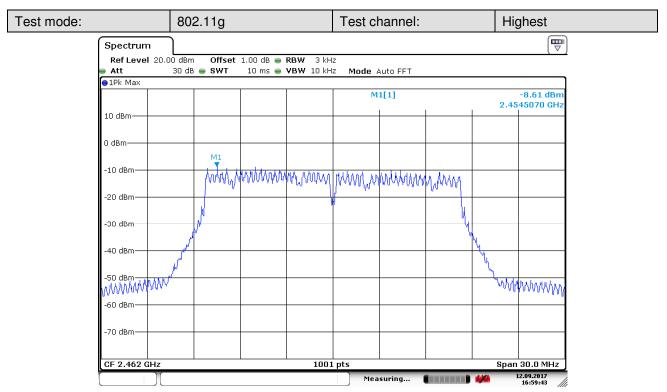


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Date: 12.SEP.2017 16:58:59

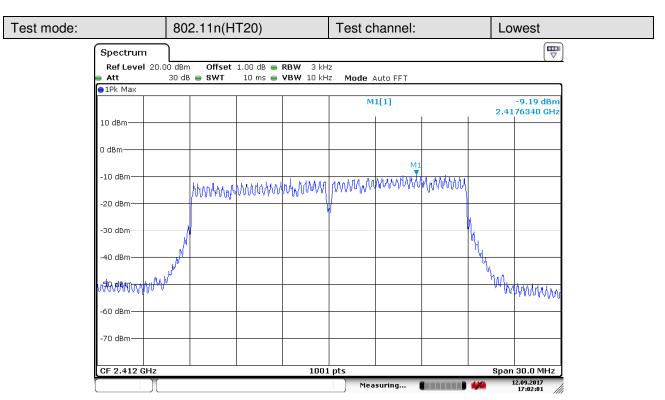


Date: 12.SEP.2017 16:59:44

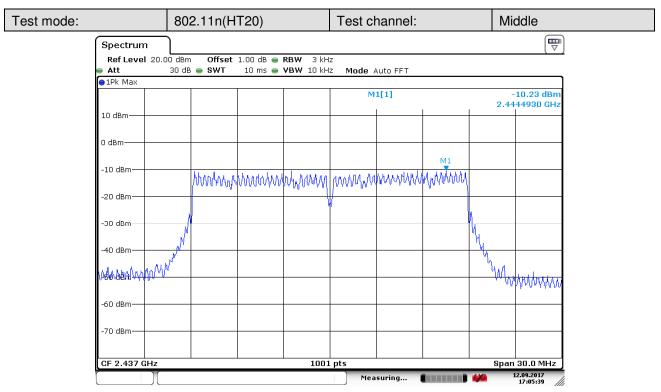


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Date: 12.SEP.2017 17:02:01

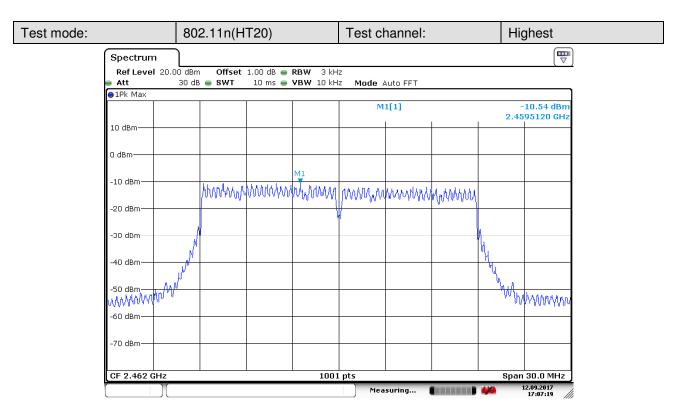


Date: 12.SEP.2017 17:05:39

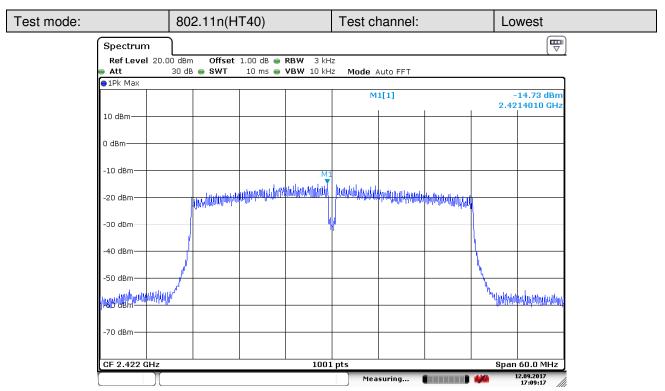


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Date: 12.SEP.2017 17:07:19

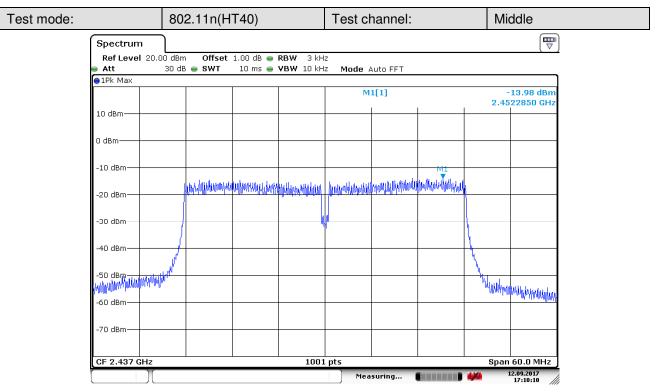


Date: 12.SEP.2017 17:09:17

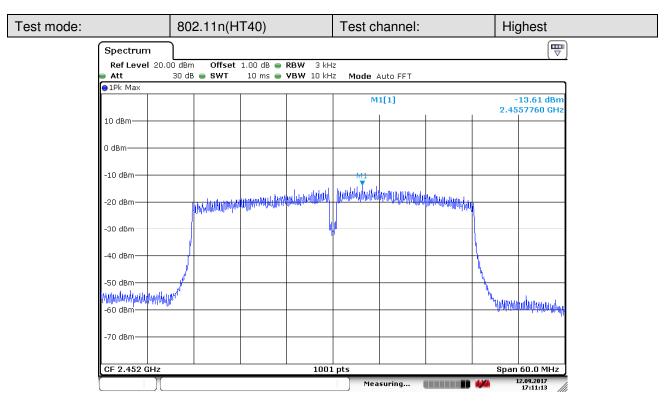


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Date: 12.SEP.2017 17:10:10



Date: 12.SEP.2017 17:11:14



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6.6 Band-edge for RF Conducted Emissions

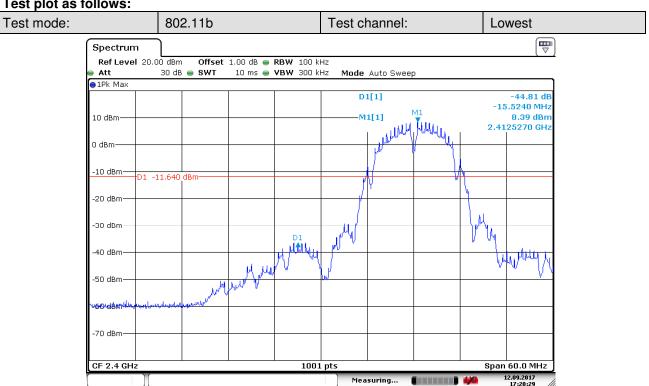
Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10: 2013 Section 11.13			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Through Pre-scan, 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).			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Instruments Used:	Refer to section 5.10 for details			
Test Results:	Pass			



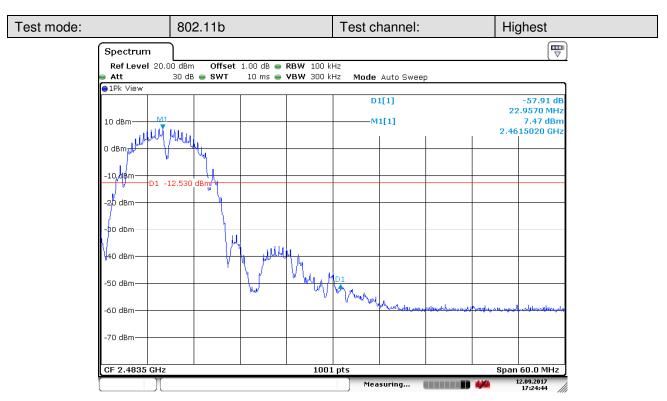
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Test plot as follows:



Date: 12.SEP.2017 17:20:29

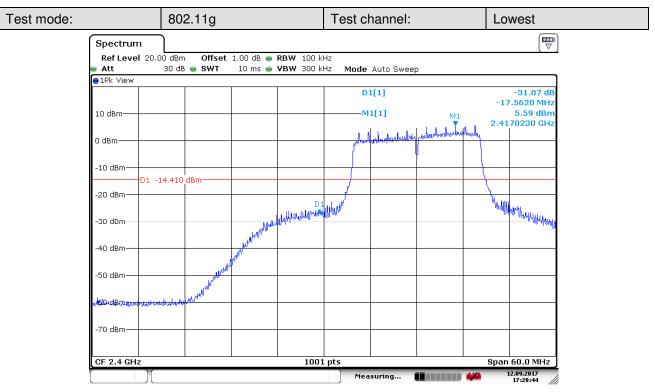


Date: 12.SEP.2017 17:24:44

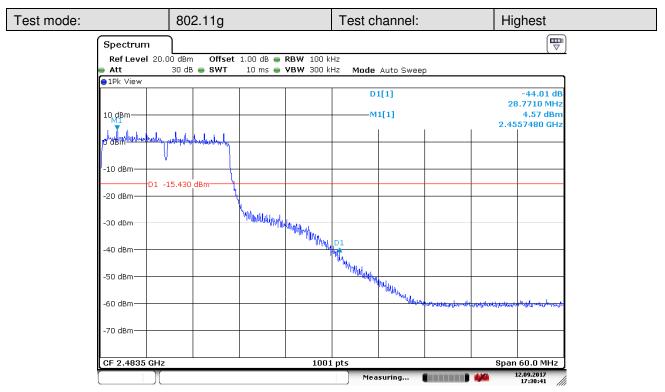


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Date: 12.SEP.2017 17:28:44

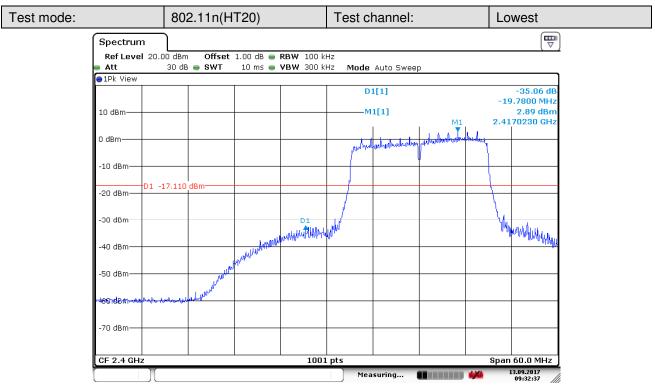


Date: 12.SEP.2017 17:30:41

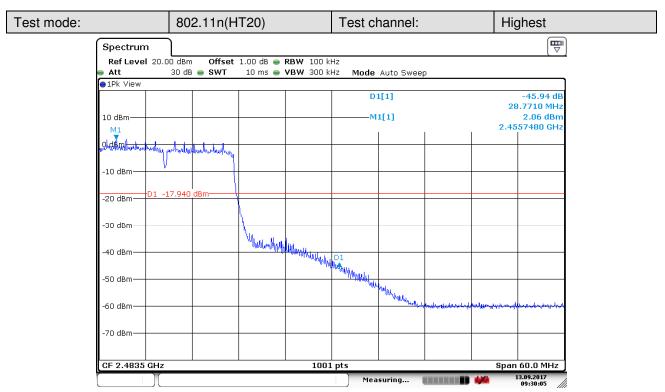


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Date: 13.SEP.2017 09:32:38

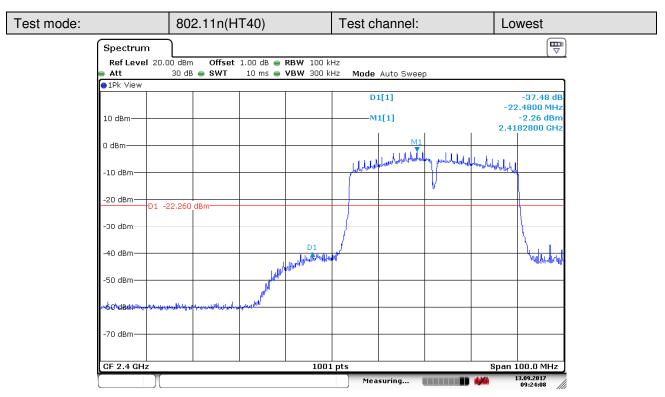


Date: 13.SEP.2017 09:30:05

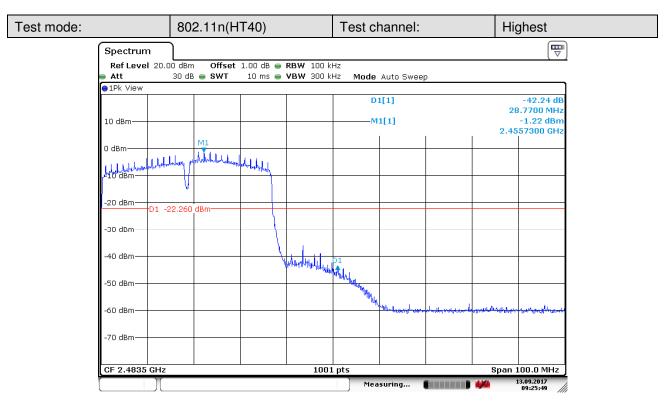


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Date: 13.SEP.2017 09:24:09



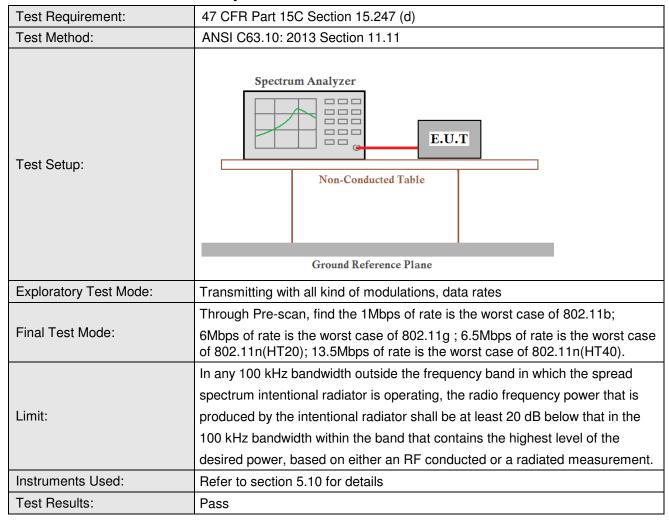
Date: 13.SEP.2017 09:25:49



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6.7 RF Conducted Spurious Emissions



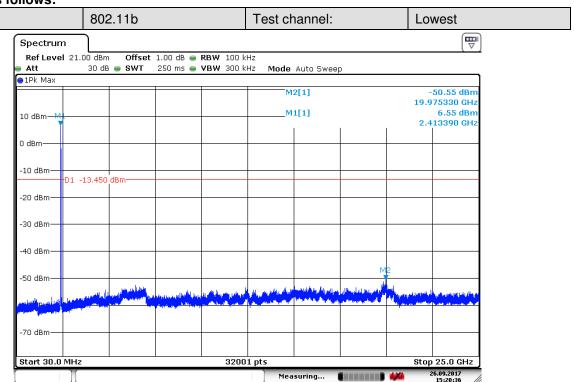


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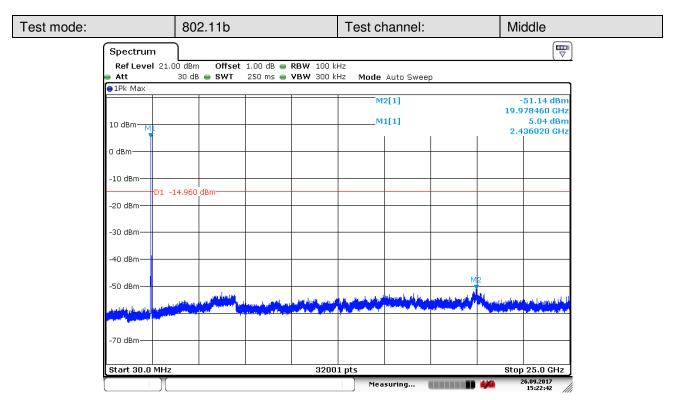
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Test plot as follows:

Test mode:



Date: 26.SEP.2017 15:20:36

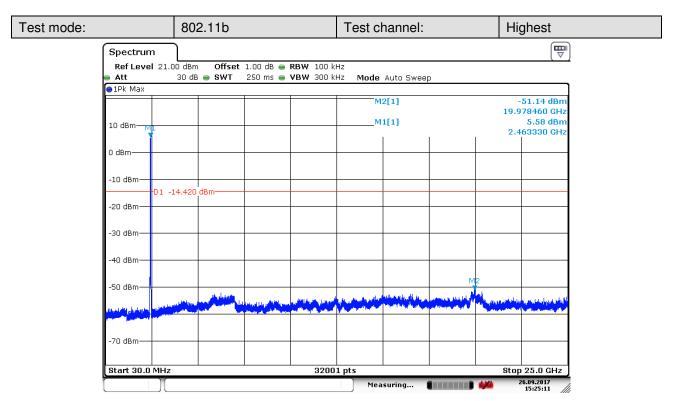


Date: 26.SEP.2017 15:22:43

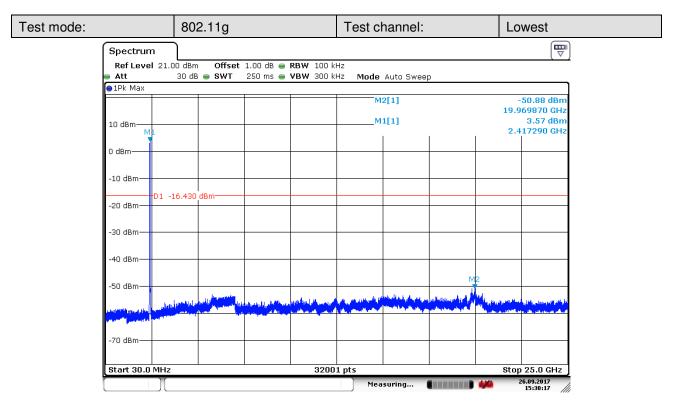


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Date: 26.SEP.2017 15:25:11

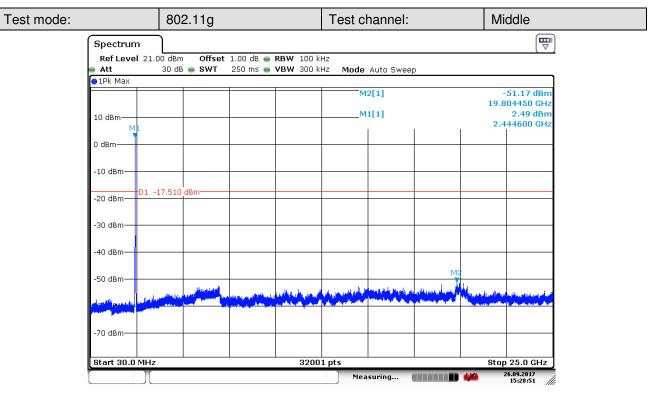


Date: 26.SEP.2017 15:30:17

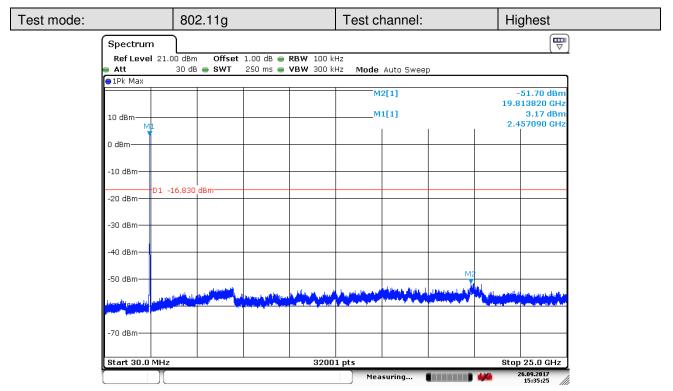


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Date: 26.SEP.2017 15:28:51

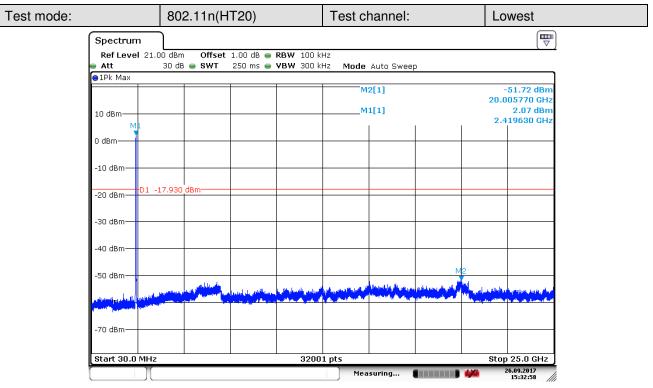


Date: 26.SEP.2017 15:35:25

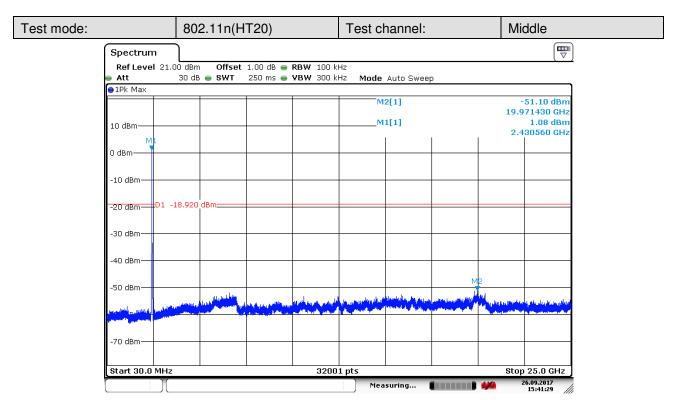


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Date: 26.SEP.2017 15:32:58

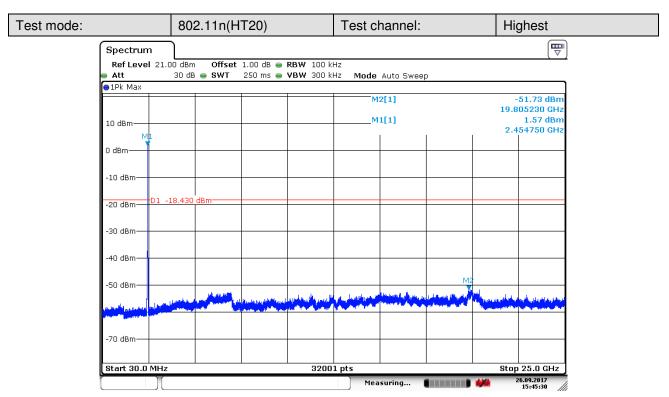


Date: 26.SEP.2017 15:41:30

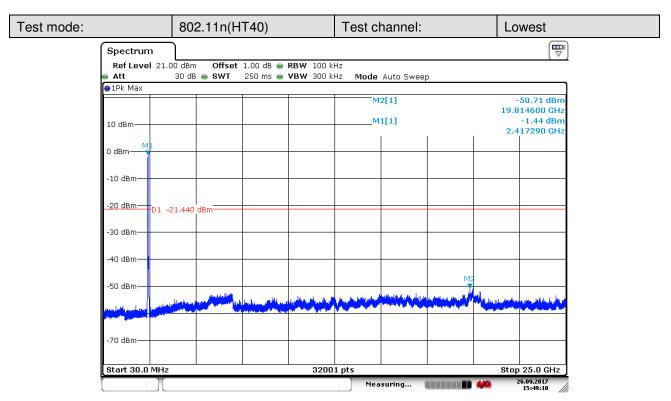


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Date: 26.SEP.2017 15:45:30

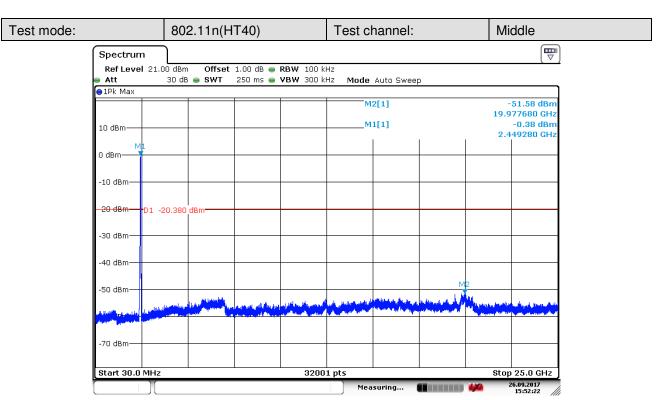


Date: 26.SEP.2017 15:49:11

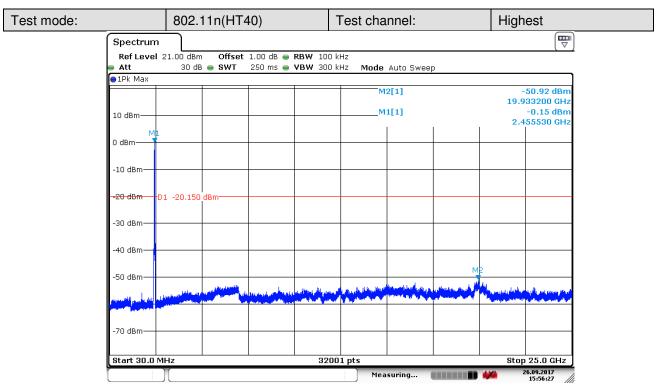


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Date: 26.SEP.2017 15:52:22



Date: 26.SEP.2017 15:56:28



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Remark:

Scan from 9kHz to 25GHz, the disturbance below 30MHz 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.



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6.8 Radiated Spurious Emissions

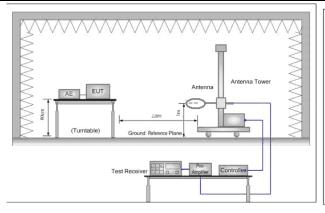
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 :2013 Sect	ion 11.12								
Test Site:	Measurement Distance:	3m or 10m (Semi-A	Anechoic Ch	amber)						
	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	z Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	z Average	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Z Quasi-peak	10kHz	30kHz	Quasi-peak					
Receiver Setup:	0.110MHz-0.490MHz	z Peak	10kHz	30kHz	Peak					
	0.110MHz-0.490MHz	z 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	Remark	Measurement					
	Frequency	(microvolt/meter)	(dBuV/m)	Hemark	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					
	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 o	therwise specified,	the limit on p	beak radio fre	quency					
	emissions is 20dB above	the maximum per	mitted avera	ge emission li	imit					
	applicable to the equipm	ent under test. This	s peak limit a	pplies to the t	otal peak					
	emission level rad	iated by the device								



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Test Setup:



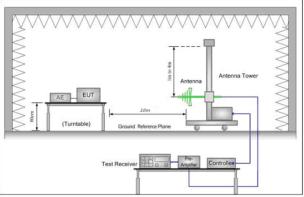


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

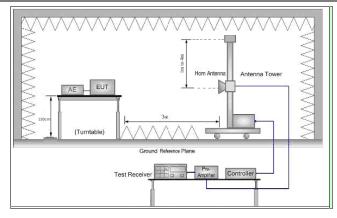


Figure 3. Above 1 GHz

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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Test Results:	Pass					
Instruments Used:	Refer to section 5.10 for details					
	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.					
	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)					
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case					
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;					
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode.					
	Charge + Transmitting mode.					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
	j. Repeat above procedures until all frequencies measured was complete.					
	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.					
	h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel					
	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.					



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6.8.1 Radiated Emission below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

 L_3 : Level @ 3m distance. Unit: uV/m; L_{10} : Level @ 10m distance. Unit: uV/m;

 D_3 : 3m distance. Unit: m D_{10} : 10m distance. Unit: m

The level at 3m test distance is below:

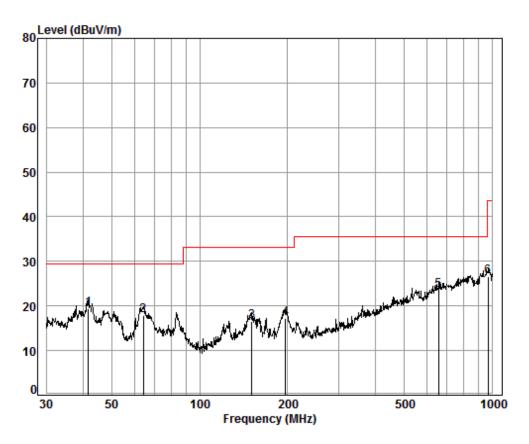
Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Over Limit (dB)	Ant. Polarization
41.71	19.46	9.40	31.32	29.92	40.00	-10.08	٧
64.21	17.79	7.75	25.85	28.25	40.00	-11.75	٧
151.07	16.50	6.68	22.28	26.96	43.50	-16.54	V
196.51	17.21	7.25	24.18	27.67	43.50	-15.83	V
656.53	23.61	15.15	50.51	34.07	46.00	-11.93	V
968.93	26.55	21.26	70.86	37.01	54.00	-16.99	V
43.51	16.15	6.42	21.40	26.61	40.00	-13.39	Н
48.16	17.22	7.26	24.20	27.68	40.00	-12.32	Н
86.20	13.80	4.90	16.33	24.26	40.00	-15.74	Н
148.96	17.25	7.29	24.29	27.71	43.50	-15.79	Н
454.31	19.58	9.53	31.76	30.04	46.00	-15.96	Н
734.49	24.68	17.14	57.13	35.14	46.00	-10.86	Н



Report No.: SZEM170800926002

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



Condition: 10m VERTICAL

Job No. : 09260RG Test Mode: WIFI:2.4G

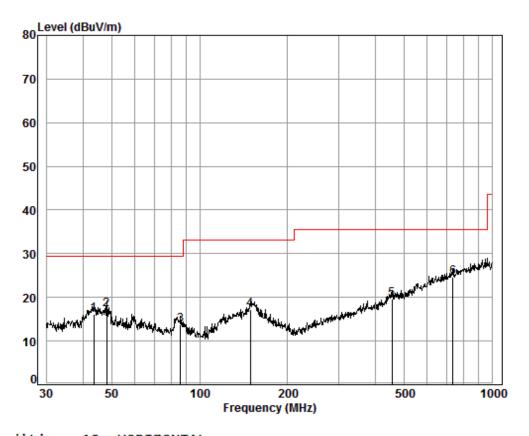
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	41.71	6.80	13.17	32.99	32.48	19.46	29.50	-10.04
2	64.21	7.00	11.15	32.93	32.57	17.79	29.50	-11.71
3	151.07	7.46	13.41	32.74	28.37	16.50	33.10	-16.60
4	196.51	7.58	9.46	32.70	32.87	17.21	33.10	-15.89
5	656.53	9.04	19.62	32.60	27.55	23.61	35.60	-11.99
6	968.93	9.60	22.79	32.50	26.66	26.55	43.50	-16.95



Report No.: SZEM170800926002

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Test mode: Charge + Transmitting Horizontal



Condition: 10m HORIZONTAL

Job No. : 09260RG Test Mode: WIFI:2.4G

		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	6.80	13.02	32.99	29.32	16.15	29.50	-13.35
2	48.16	6.86	12.82	33.00	30.54	17.22	29.50	-12.28
3	86.20	7.16	8.64	32.84	30.84	13.80	29.50	-15.70
4	148.96	7.45	13.34	32.74	29.20	17.25	33.00	-15.75
5	454.31	8.44	16.23	32.60	27.51	19.58	35.60	-16.02
6 рр	734.49	9.20	20.58	32.60	27.50	24.68	35.60	-10.92

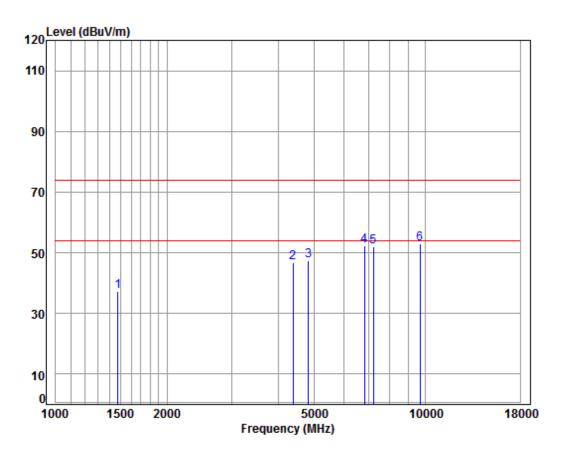


Report No.: SZEM170800926002

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6.8.2 Transmitter emission above 1GHz

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

Job No : 09260RG

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

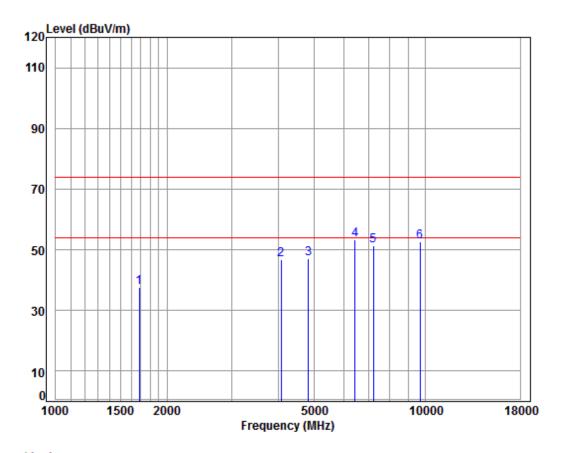
	. 2.40	a MILI	TID						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	1473.013	5.39	25.69	38.04	44.23	37.27	74.00	-36.73	peak
	4379.699	7.43	33.60	38.20	44.07	46.90	74.00	-27.10	peak
	4824.000	7.91	34.19	38.42	43.64	47.32	74.00	-26.68	peak
	6835.278	10.58	36.05	37.45	43.26	52.44	74.00	-21.56	peak
	7236.000	10.07	36.40	37.08	42.53	51.92	74.00	-22.08	peak
pp	9648.000	10.77	37.53	35.07	39.89	53.12	74.00	-20.88	peak
	-	Freq MHz 1473.013 4379.699 4824.000 6835.278 7236.000	Cable Loss MHz dB 1473.013 5.39 4379.699 7.43 4824.000 7.91 6835.278 10.58 7236.000 10.07	Cable Ant Loss Factor MHz dB dB/m 1473.013 5.39 25.69 4379.699 7.43 33.60 4824.000 7.91 34.19 6835.278 10.58 36.05 7236.000 10.07 36.40	Cable Ant Preamp Loss Factor Factor MHz dB dB/m dB 1473.013 5.39 25.69 38.04 4379.699 7.43 33.60 38.20 4824.000 7.91 34.19 38.42 6835.278 10.58 36.05 37.45 7236.000 10.07 36.40 37.08	Cable Ant Preamp Read Loss Factor Factor Level MHz dB dB/m dB dBuV 1473.013 5.39 25.69 38.04 44.23 4379.699 7.43 33.60 38.20 44.07 4824.000 7.91 34.19 38.42 43.64 6835.278 10.58 36.05 37.45 43.26 7236.000 10.07 36.40 37.08 42.53	Cable Ant Preamp Read Level Level MHz dB dB/m dB dBuV dBuV/m 1473.013 5.39 25.69 38.04 44.23 37.27 4379.699 7.43 33.60 38.20 44.07 46.90 4824.000 7.91 34.19 38.42 43.64 47.32 6835.278 10.58 36.05 37.45 43.26 52.44 7236.000 10.07 36.40 37.08 42.53 51.92	Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 1473.013 5.39 25.69 38.04 44.23 37.27 74.00 4379.699 7.43 33.60 38.20 44.07 46.90 74.00 4824.000 7.91 34.19 38.42 43.64 47.32 74.00 6835.278 10.58 36.05 37.45 43.26 52.44 74.00 7236.000 10.07 36.40 37.08 42.53 51.92 74.00	Cable Ant Preamp Read Level Limit Over Loss Freq Loss Factor Factor Level Level Limit Over Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 1473.013 5.39 25.69 38.04 44.23 37.27 74.00 -36.73 4379.699 7.43 33.60 38.20 44.07 46.90 74.00 -27.10 4824.000 7.91 34.19 38.42 43.64 47.32 74.00 -26.68 6835.278 10.58 36.05 37.45 43.26 52.44 74.00 -21.56



Report No.: SZEM170800926002

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restitione. ouz.rib restitialitel. Lowest Reliain. reak Holizolital	Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 09260RG

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

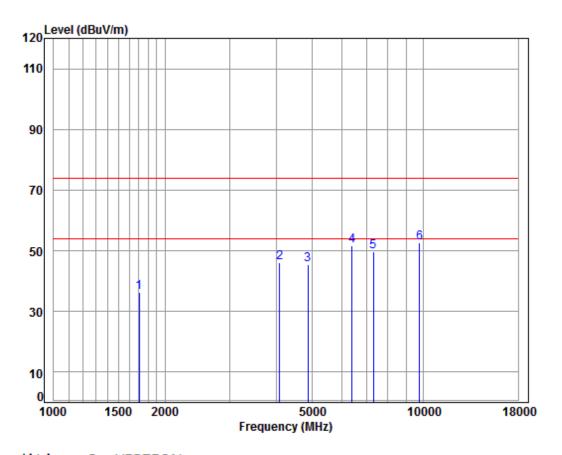
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1682.477	5.25	26.60	38.02	43.74	37.57	74.00	-36.43	peak
	4074.388								•
3	4824.000	7.91	34.19	38.42	43.32	47.00	74.00	-27.00	peak
4 pp	6451.353	11.45	35.06	37.83	44.56	53.24	74.00	-20.76	peak
5	7236.000	10.07	36.40	37.08	41.88	51.27	74.00	-22.73	peak
6	9648.000	10.77	37.53	35.07	39.55	52.78	74.00	-21.22	peak



Report No.: SZEM170800926002

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



Condition: 3m VERTICAL

Job No : 09260RG

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

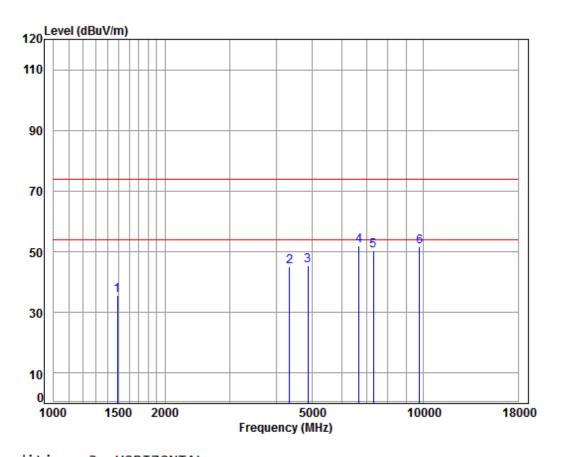
000	_	. 2.7	a will i	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1702.042	5 23	26 68	38 02	12 29	36 18	7/ 00	37 82	noak
										•
2		4086.182	7.08	33.60	38.05	43.59	46.22	74.00	-27.78	peak
3		4874.000	7.96	34.28	38.44	41.50	45.30	74.00	-28.70	peak
4		6414.167	11.38	35.03	37.87	43.24	51.78	74.00	-22.22	peak
5		7311.000	10.05	36.37	37.01	40.31	49.72	74.00	-24.28	peak
6	pp	9748.000	10.82	37.55	35.02	39.38	52.73	74.00	-21.27	peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

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

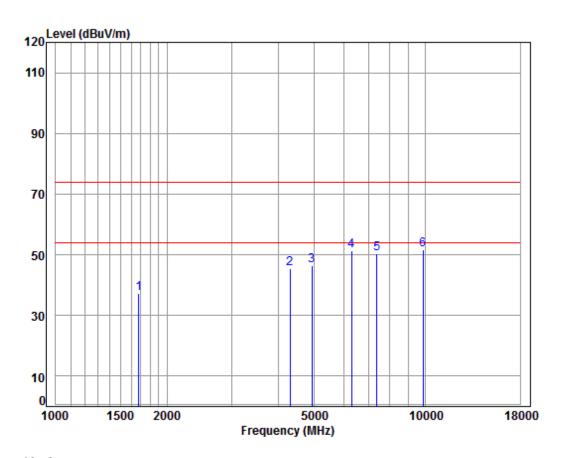
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1490.142	5.45	25.76	38.04	42.46	35.63	74.00	-38.37	peak
2	4341.886	7.38	33.60	38.18	42.45	45.25	74.00	-28.75	peak
3	4874.000	7.96	34.28	38.44	41.61	45.41	74.00	-28.59	peak
4 pr	6679.040	11.02	35.61	37.60	42.93	51.96	74.00	-22.04	peak
5	7311.000	10.05	36.37	37.01	40.85	50.26	74.00	-23.74	peak
6	9748.000	10.82	37.55	35.02	38.19	51.54	74.00	-22.46	peak



Report No.: SZEM170800926002

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Test mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL Job No : 09260RG

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

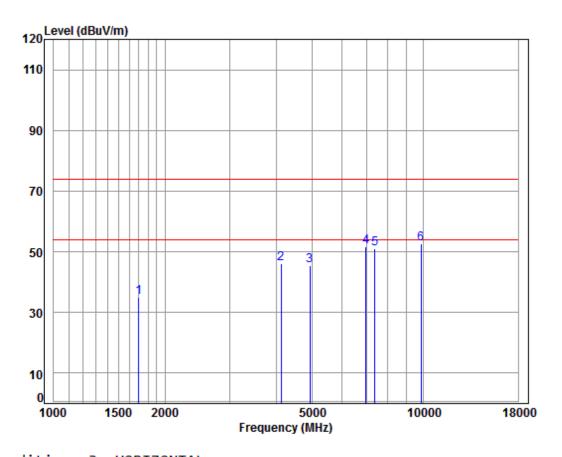
oce	-	. 2.4	G MILL	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1677.621	5 25	26 58	38 03	43 55	37 35	74 00	-36 65	neak
2		4304.400								•
3		4924.000								•
4		6303.890	11.17	34.95	37.98	43.15	51.29	74.00	-22.71	peak
5		7386.000	10.03	36.34	36.94	40.83	50.26	74.00	-23.74	peak
6	pp	9848.000	10.87	37.57	34.97	38.13	51.60	74.00	-22.40	peak



Report No.: SZEM170800926002

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

Job No : 09260RG

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

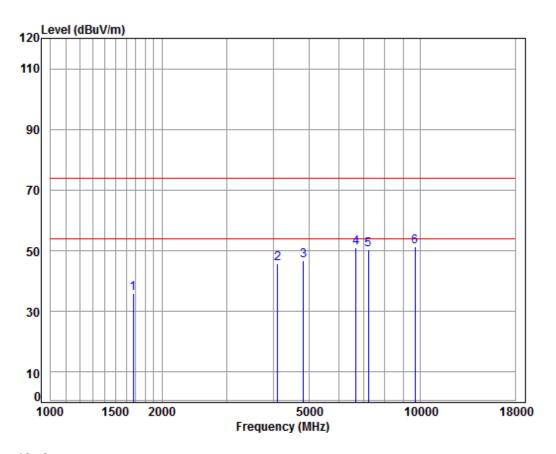
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dB dB dB 1697.129 5.23 26.66 38.02 41.24 35.11 74.00 -38.89 peak 2 4121.768 7.13 33.60 38.07 43.61 46.27 74.00 -27.73 peak 3 4924.000 8.01 34.37 38.47 41.69 45.60 74.00 -28.40 peak 4 6974.982 10.20 36.43 37.32 42.25 51.56 74.00 -22.44 peak 7386.000 10.03 36.34 36.94 41.60 51.03 74.00 -22.97 peak 6 pp 9848.000 10.87 37.57 34.97 39.16 52.63 74.00 -21.37 peak



Report No.: SZEM170800926002

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



Condition: 3m VERTICAL

Job No : 09260RG

6 pp 9648.000

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

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dB dB dB 1672.779 5.26 26.56 38.03 42.18 35.97 74.00 -38.03 peak 2 4109.872 7.11 33.60 38.06 42.96 45.61 74.00 -28.39 peak 3 4824.000 7.91 34.19 38.42 42.92 46.60 74.00 -27.40 peak 4 6698.373 10.97 35.67 37.59 42.03 51.08 74.00 -22.92 peak 7236.000 10.07 36.40 37.08 41.04 50.43 74.00 -23.57 peak

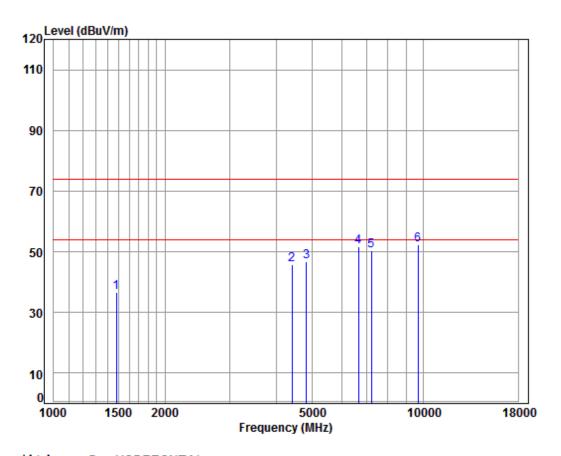
10.77 37.53 35.07 38.10 51.33 74.00 -22.67 peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

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

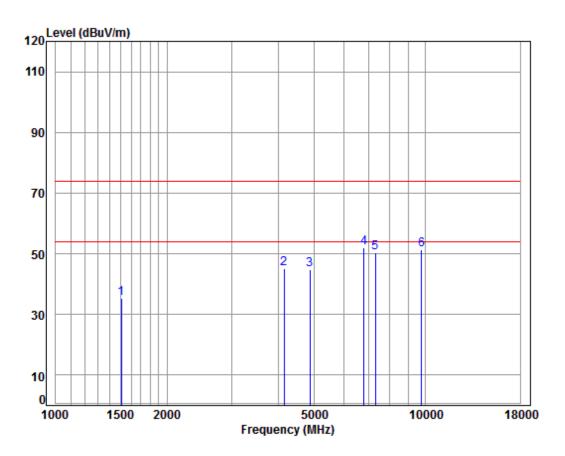
oce	-	. 2.4	G MILL	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1477.276	5.41	25.71	38.04	43.46	36.54	74.00	-37.46	peak
2		4405.090	7.46	33.60	38.22	42.97	45.81	74.00	-28.19	peak
3		4824.000	7.91	34.19	38.42	42.93	46.61	74.00	-27.39	peak
4		6659.763	11.08	35.56	37.62	42.53	51.55	74.00	-22.45	peak
5		7236.000	10.07	36.40	37.08	40.81	50.20	74.00	-23.80	peak
6	pp	9648.000	10.77	37.53	35.07	39.01	52.24	74.00	-21.76	peak



Report No.: SZEM170800926002

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Test mode:	802.11g	Test channel:	Middle	Remark:	Peak	Vertical
	3					



Condition: 3m VERTICAL

Job No : 09260RG

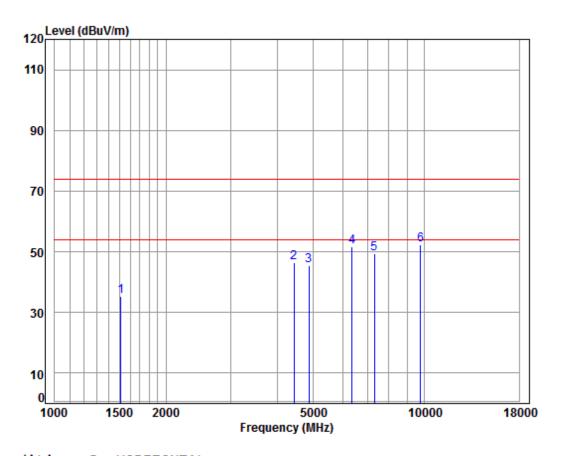
Mode : 2437 TX RSE Note : 2.4G WIFI 11G

OCC	. 2.4	G MILI	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	
4	1507 470	F 47	25 62	20.04	44 02	3F 40	74.00	20 01	
1	1507.470	5.4/	25.65	30.04	41.93	35.19	74.00	-20.01	реак
2	4145.664	7.16	33.60	38.08	42.50	45.18	74.00	-28.82	peak
3	4874.000	7.96	34.28	38.44	40.93	44.73	74.00	-29.27	peak
4 pp	6815.551	10.64	36.00	37.47	42.66	51.83	74.00	-22.17	peak
5	7311.000	10.05	36.37	37.01	41.06	50.47	74.00	-23.53	peak
6	9748.000	10.82	37.55	35.02	37.98	51.33	74.00	-22.67	peak



Report No.: SZEM170800926002

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Condition: 3m HORIZONTAL

Job No : 09260RG

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

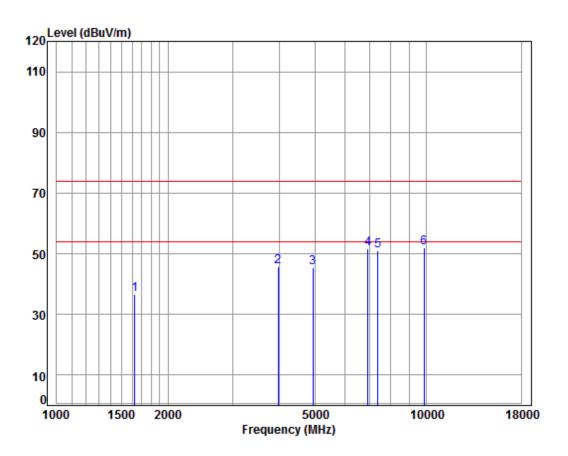
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	5.46	25.85	38.04	42.18	35.45	74.00	-38.55	peak
2	4430.628	7.48	33.60	38.23	43.48	46.33	74.00	-27.67	peak
3	4874.000	7.96	34.28	38.44	41.49	45.29	74.00	-28.71	peak
4	6358.789	11.27	34.99	37.92	43.23	51.57	74.00	-22.43	peak
5	7311.000	10.05	36.37	37.01	39.90	49.31	74.00	-24.69	peak
6	pp 9748.000	10.82	37.55	35.02	38.98	52.33	74.00	-21.67	peak



Report No.: SZEM170800926002

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

Job No : 09260RG

Mode : 2462 TX RSE

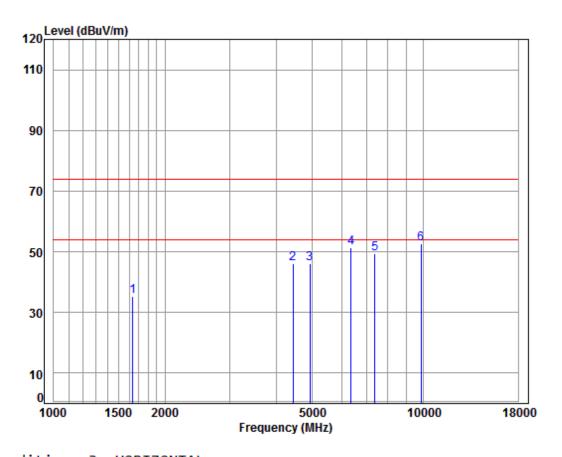
oce	-	. 2.4	G MILL	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1625.121	5.32	26.36	38.03	42.97	36.62	74.00	-37.38	peak
2		3969.767								•
3		4924.000	8.01	34.37	38.47	41.68	45.59	74.00	-28.41	peak
4		6934.778	10.31	36.32	37.36	42.35	51.62	74.00	-22.38	peak
5		7386.000	10.03	36.34	36.94	41.71	51.14	74.00	-22.86	peak
6	pp	9848.000	10.87	37.57	34.97	38.60	52.07	74.00	-21.93	peak



Report No.: SZEM170800926002

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ſ	Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
		00=9	1 001 0114111011	,gcc	1 1011141111	· oan	<u>-</u> 0a.



Condition: 3m HORIZONTAL

Job No : 09260RG

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

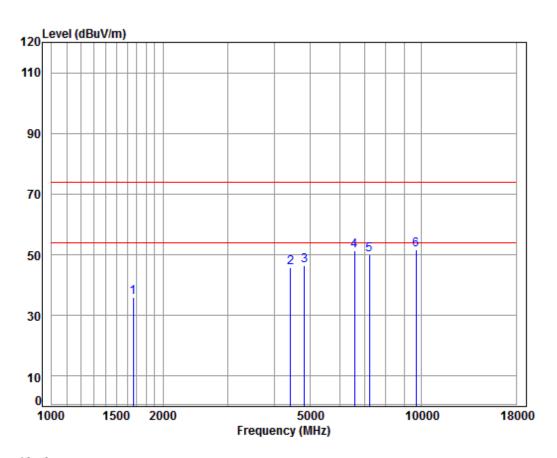
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
										_
1		1639.274	5.30	26.42	38.03	41.74	35.43	74.00	-38.57	peak
2		4430.628	7.48	33.60	38.23	43.28	46.13	74.00	-27.87	peak
3		4924.000	8.01	34.37	38.47	42.24	46.15	74.00	-27.85	peak
4		6358.789	11.27	34.99	37.92	42.94	51.28	74.00	-22.72	peak
5		7386.000	10.03	36.34	36.94	39.99	49.42	74.00	-24.58	peak
6	pp	9848.000	10.87	37.57	34.97	39.10	52.57	74.00	-21.43	peak



Report No.: SZEM170800926002

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



Condition: 3m VERTICAL

Job No : 09260RG

Mode : 2412 TX RSE

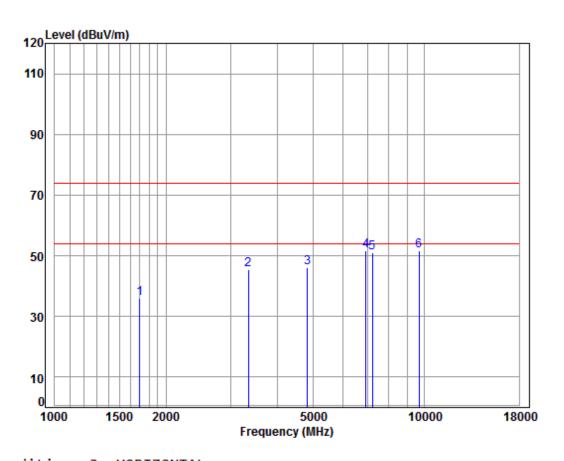
000		. 2.7	a will i	1114 2	•					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1663.137	5 27	26 52	38 03	42 29	36 05	74 00	-37 95	neak
2		4417.841								•
3		4824.000								•
		6583.209								•
		7236.000								•
										•
ь	pp	9648.000	10.//	3/.53	35.07	38.56	51.79	74.00	-22.21	peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

Mode : 2412 TX RSE

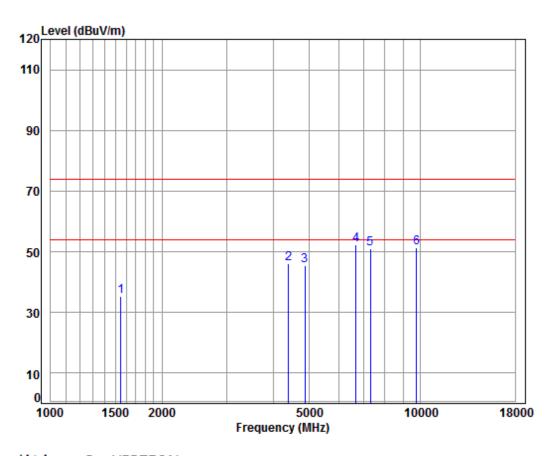
				-						
		Cable	Ant	Preamp	Read		Limit	0ver		
	Fre	q Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		_								
	MH	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	1697.12	9 5.23	26.66	38.02	42.10	35.97	74.00	-38.03	peak	
2	3337.71	0 6.31	31.92	37.94	45.13	45.42	74.00	-28.58	peak	
3	4824.00	0 7.91	34.19	38.42	42.36	46.04	74.00	-27.96	peak	
4	6934.77	8 10.31	36.32	37.36	42.28	51.55	74.00	-22.45	peak	
5	7236.00	0 10.07	36.40	37.08	41.48	50.87	74.00	-23.13	peak	
6	pp 9648.00	0 10.77	37.53	35.07	38.55	51.78	74.00	-22.22	peak	



Report No.: SZEM170800926002

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



Condition: 3m VERTICAL

Job No : 09260RG

Mode : 2437 TX RSE

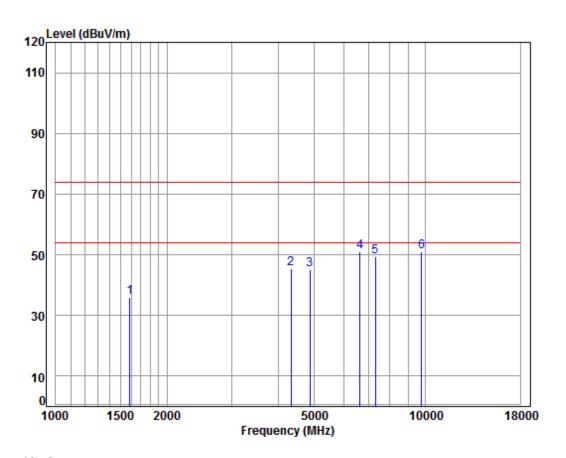
				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	4547.400	F 40	26.02	20.04	44 00	25.20	74.00	20.64	
1	1547.199	5.42	26.02	38.04	41.99	35.39	74.00	-38.61	peak
2	4392.376	7.44	33.60	38.21	43.17	46.00	74.00	-28.00	peak
3	4874.000	7.96	34.28	38.44	41.52	45.32	74.00	-28.68	peak
4 p	6679.040	11.02	35.61	37.60	43.14	52.17	74.00	-21.83	peak
5	7311.000	10.05	36.37	37.01	41.58	50.99	74.00	-23.01	peak
6	9748.000	10.82	37.55	35.02	37.84	51.19	74.00	-22.81	peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

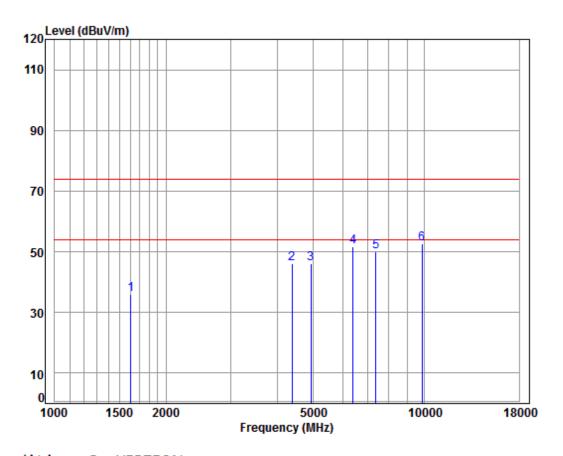
Mode : 2437 TX RSE

				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	aB/m	dB	aBuV	aBuV/m	aBuV/m	aв	
1	1587.975	5.37	26.20	38.03	42.45	35.99	74.00	-38.01	peak
2	4329.354	7.37	33.60	38.18	42.73	45.52	74.00	-28.48	peak
3	4874.000	7.96	34.28	38.44	41.44	45.24	74.00	-28.76	peak
4	6640.542	11.13	35.50	37.64	41.92	50.91	74.00	-23.09	peak
5	7311.000	10.05	36.37	37.01	40.08	49.49	74.00	-24.51	peak
6	pp 9748.000	10.82	37.55	35.02	37.65	51.00	74.00	-23.00	peak



Report No.: SZEM170800926002

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Condition: 3m VERTICAL

Job No : 09260RG

Mode : 2462 TX RSE

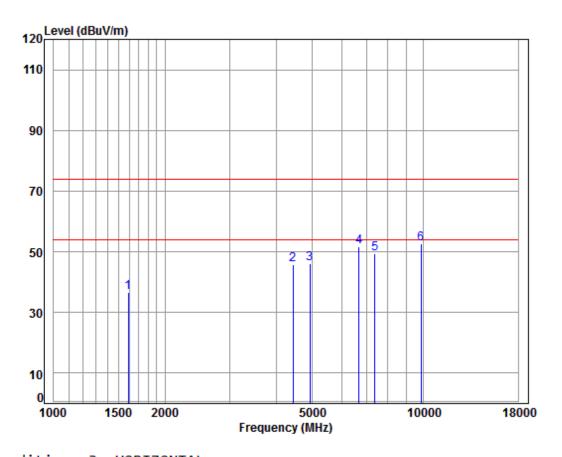
0.0		. 2.7	a will i	1114 2	•					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1606.441	5.34	26.28	38.03	42.23	35.82	74.00	-38.18	peak
2		4379.699								•
3		4924.000	8.01	34.37	38.47	42.16	46.07	74.00	-27.93	peak
4		6414.167	11.38	35.03	37.87	43.11	51.65	74.00	-22.35	peak
5		7386.000	10.03	36.34	36.94	40.61	50.04	74.00	-23.96	peak
6	pp	9848.000	10.87	37.57	34.97	39.28	52.75	74.00	-21.25	peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

Mode : 2462 TX RSE

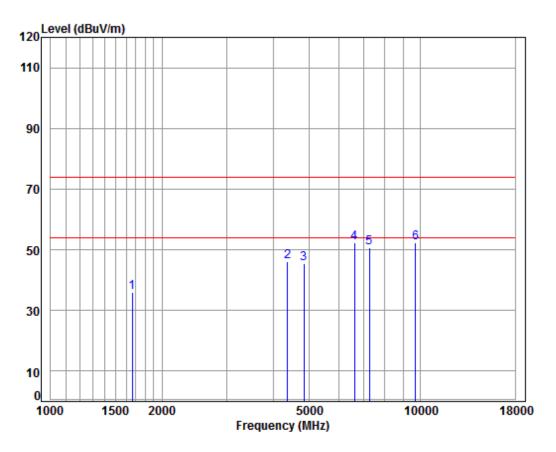
				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1592.571	5.36	26.22	38.03	43.02	36.57	74.00	-37.43	peak
2	4430.628	7.48	33.60	38.23	42.87	45.72	74.00	-28.28	peak
3	4924.000	8.01	34.37	38.47	42.34	46.25	74.00	-27.75	peak
4	6679.040	11.02	35.61	37.60	42.72	51.75	74.00	-22.25	peak
5	7386.000	10.03	36.34	36.94	40.07	49.50	74.00	-24.50	peak
6	op 9848.000	10.87	37.57	34.97	39.02	52.49	74.00	-21.51	peak



Report No.: SZEM170800926002

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



Condition: 3m VERTICAL

Job No : 09260RG

Mode : 2422 TX RSE

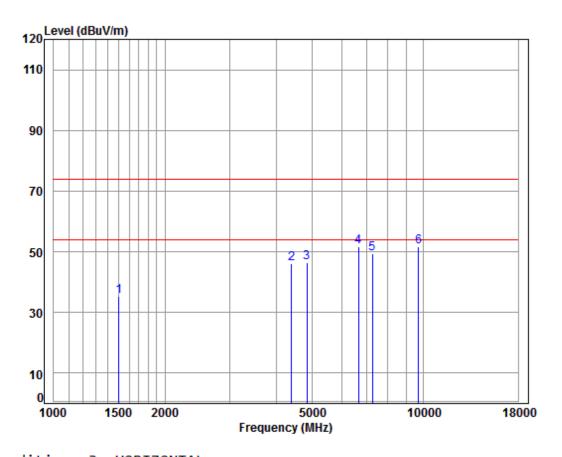
	_				_					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	——dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
		1112	ub.	GD/III	ub.	ubu*	abav/iii	abav/ III	ub.	
1		1663.137	5.27	26.52	38.03	42.08	35.84	74.00	-38.16	peak
2		4367.058	7.41	33.60	38.20	43.43	46.24	74.00	-27.76	peak
3		4844.000	7.93	34.23	38.43	41.71	45.44	74.00	-28.56	peak
4		6621.375	11.19	35.45	37.66	43.19	52.17	74.00	-21.83	peak
5		7266.000	10.06	36.39	37.05	41.25	50.65	74.00	-23.35	peak
6	pp	9688.000	10.79	37.54	35.05	38.94	52.22	74.00	-21.78	peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

Mode : 2422 TX RSE

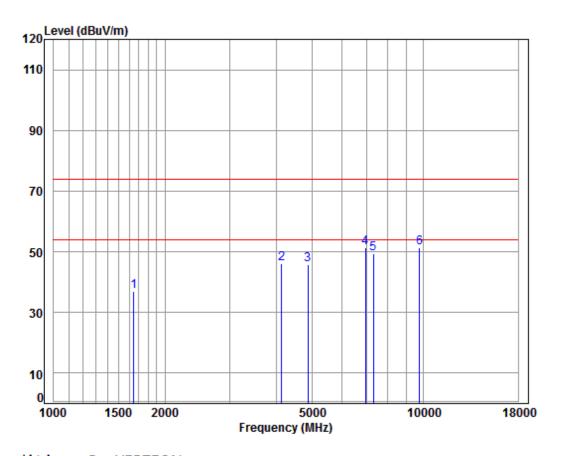
				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	5.48	25.81	38.04	41.92	35.17	74.00	-38.83	peak
2	4392.376	7.44	33.60	38.21	43.18	46.01	74.00	-27.99	peak
3	4844.000	7.93	34.23	38.43	42.55	46.28	74.00	-27.72	peak
4	6659.763	11.08	35.56	37.62	42.71	51.73	74.00	-22.27	peak
5	7266.000	10.06	36.39	37.05	40.01	49.41	74.00	-24.59	peak
6	pp 9688.000	10.79	37.54	35.05	38.48	51.76	74.00	-22.24	peak



Report No.: SZEM170800926002

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



Condition: 3m VERTICAL

Job No : 09260RG

Mode : 2437 TX RSE

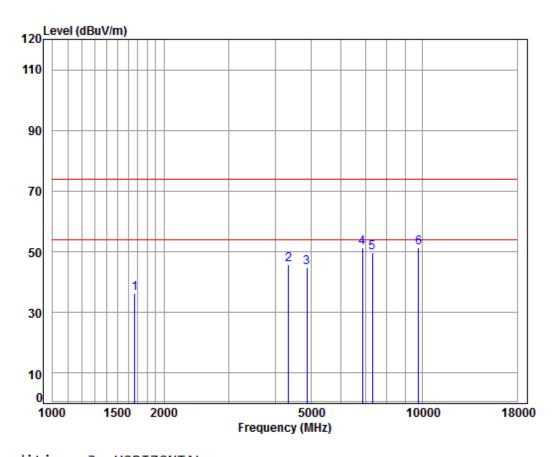
				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1648.778	5.29	26.46	38.03	43.18	36.90	74.00	-37.10	peak
2	4133.699	7.14	33.60	38.07	43.41	46.08	74.00	-27.92	peak
3	4874.000	7.96	34.28	38.44	41.88	45.68	74.00	-28.32	peak
4 pr	6954.852	10.25	36.38	37.34	42.15	51.44	74.00	-22.56	peak
5	7311.000	10.05	36.37	37.01	39.83	49.24	74.00	-24.76	peak
6	9748.000	10.82	37.55	35.02	37.85	51.20	74.00	-22.80	peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

Mode : 2437 TX RSE

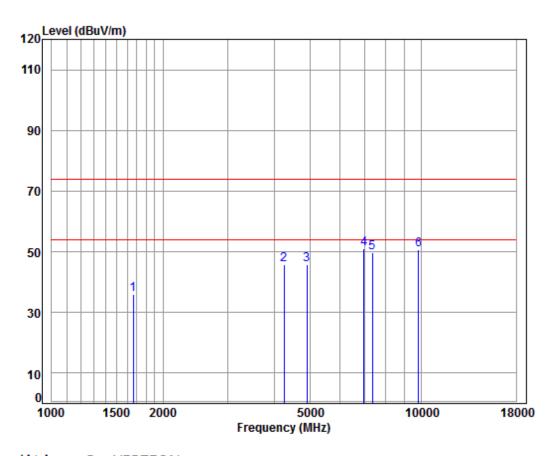
0.0		. 2.7	G W111	TIN T	•					
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1667.951	5 27	26 54	38 03	12 64	36 /2	7/ 00	_37 58	neak
										•
2		4341.886	7.38	33.60	38.18	42.85	45.65	74.00	-28.35	peak
3		4874.000	7.96	34.28	38.44	40.92	44.72	74.00	-29.28	peak
4		6874.906	10.47	36.16	37.42	42.09	51.30	74.00	-22.70	peak
5		7311.000	10.05	36.37	37.01	40.27	49.68	74.00	-24.32	peak
6	pp	9748.000	10.82	37.55	35.02	37.98	51.33	74.00	-22.67	peak



Report No.: SZEM170800926002

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



Condition: 3m VERTICAL

Job No : 09260RG

Mode : 2452 TX RSE

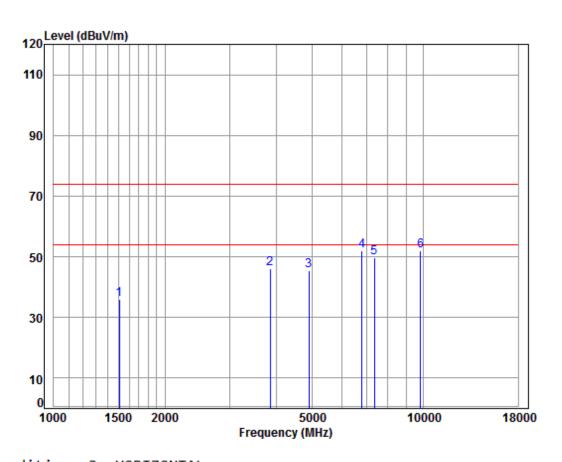
				_					
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	——dB		——dB	-dPuV	dPu\//m	dPul//m	——dB	
	MUZ	ub	ub/III	ub	ubuv	ubuv/III	ubuv/III	ub	
1	1663.137	5.27	26.52	38.03	42.35	36.11	74.00	-37.89	peak
2	4254.921	7.28	33.60	38.14	43.05	45.79	74.00	-28.21	peak
3	4904.000	7.99	34.33	38.46	41.78	45.64	74.00	-28.36	peak
4 p	p 6974.982	10.20	36.43	37.32	41.81	51.12	74.00	-22.88	peak
5	7356.000	10.04	36.36	36.97	40.35	49.78	74.00	-24.22	peak
6	9808.000	10.85	37.56	34.99	37.32	50.74	74.00	-23.26	peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

Mode : 2452 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	1507.470	5.47	25.83	38.04	42.77	36.03	74.00	-37.97	peak
2	3845.537	6.83	33.19	37.99	44.22	46.25	74.00	-27.75	peak
3	4904.000	7.99	34.33	38.46	41.49	45.35	74.00	-28.65	peak
4	6815.551	10.64	36.00	37.47	42.76	51.93	74.00	-22.07	peak
5	7356.000	10.04	36.36	36.97	40.14	49.57	74.00	-24.43	peak
6	pp 9808.000	10.85	37.56	34.99	38.62	52.04	74.00	-21.96	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 above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. 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.



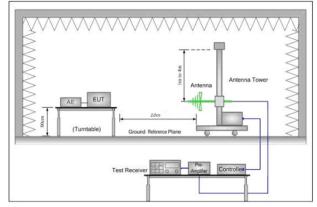
Report No.: SZEM170800926002

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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	5.209 and 15.205							
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12							
Test Site:	Measurement Distance: 3n	n 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						
	Above 4011-	54.0	Average Value						
	Above 1GHz	74.0	Peak Value						
Test Setup:			<u> </u>						





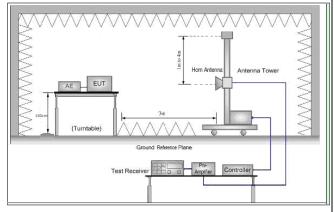


Figure 1. 30MHz to 1GHz

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 transform frequency to show compliance. Also measure any emissions in to restricted bands. Save the spectrum analyzer plot. Repeat for ea 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.					
	complete.					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
Exploratory Test Mode:	•					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.					
Exploratory Test Mode: Final Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode. Pretest the EUT at Charge +Transmitting mode.					
	Transmitting with all kind of modulations, data rates. 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; 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					
	Transmitting with all kind of modulations, data rates. 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; 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).					

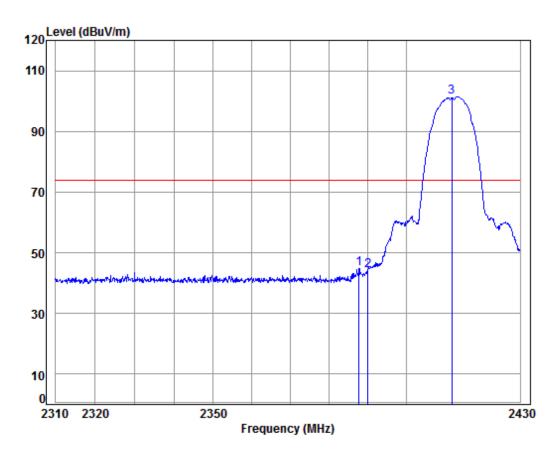


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Test plot as follows:

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



Condition: 3m VERTICAL Job No : 09260RG

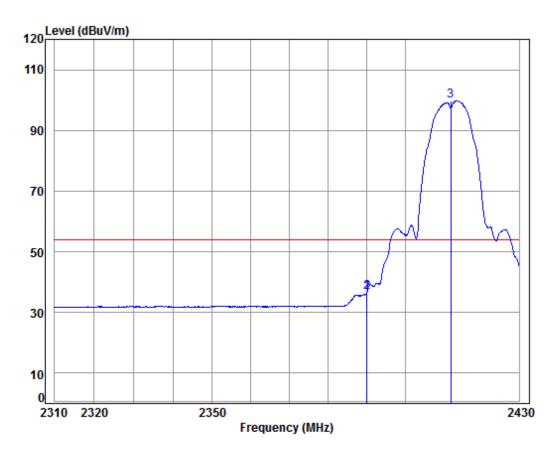
oce	. 2.4	G MILI	110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2387.670	5.47	29.07	37.96	48.24	44.82	74.00	-29.18	Peak
2	2390.000	5.47	29.08	37.96	47.55	44.14	74.00	-29.86	Peak
3 рр	2412.000	5.50	29.14	37.95	104.79	101.48	74.00	27.48	Peak



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



Condition: 3m VERTICAL

Job No : 09260RG

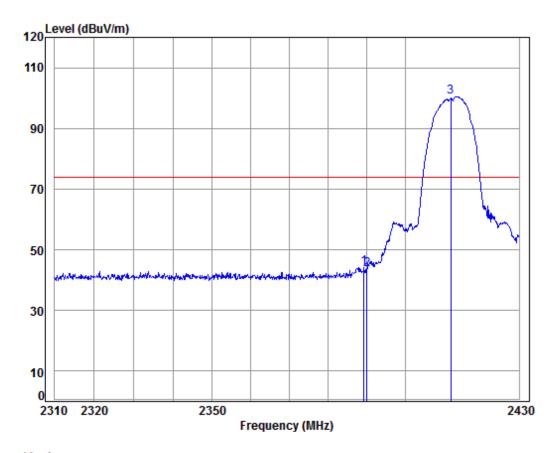
_			110							
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
_										_
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	2389.968	5.47	29.08	37.96	40.09	36.68	54.00	-17.32	Average	
	2390.000	5.47	29.08	37.96	40.09	36.68	54.00	-17.32	Average	
pp	2412.000	5.50	29.14	37.95	103.00	99.69	54.00	45.69	Average	
	_	Freq MHz 2389.968 2390.000	Cable Loss MHz dB 2389.968 5.47 2390.000 5.47	Cable Ant Loss Factor MHz dB dB/m 2389.968 5.47 29.08 2390.000 5.47 29.08	Cable Ant Preamp Loss Factor Factor MHz dB dB/m dB 2389.968 5.47 29.08 37.96 2390.000 5.47 29.08 37.96	Cable Ant Preamp Read Loss Factor Factor Level MHz dB dB/m dB dBuV 2389.968 5.47 29.08 37.96 40.09 2390.000 5.47 29.08 37.96 40.09	Cable Ant Preamp Read Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2389.968 5.47 29.08 37.96 40.09 36.68 2390.000 5.47 29.08 37.96 40.09 36.68	Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2389.968 5.47 29.08 37.96 40.09 36.68 54.00 2390.000 5.47 29.08 37.96 40.09 36.68 54.00	Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2389.968 5.47 29.08 37.96 40.09 36.68 54.00 -17.32 2390.000 5.47 29.08 37.96 40.09 36.68 54.00 -17.32	Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m dB



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



Condition: 3m HORIZONTAL

Job No : 09260RG

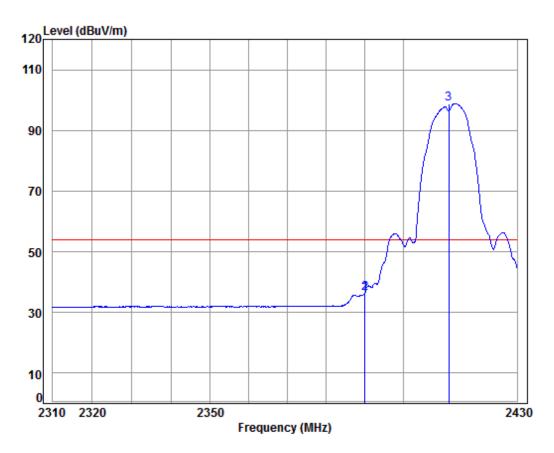
	Freq			•		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.242	5.47	29.08	37.96	47.51	44.10	74.00	-29.90	peak
2	2390.000	5.47	29.08	37.96	47.04	43.63	74.00	-30.37	peak
3 рр	2412.000	5.50	29.14	37.95	103.85	100.54	74.00	26.54	peak



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



Condition: 3m HORIZONTAL

Job No : 09260RG

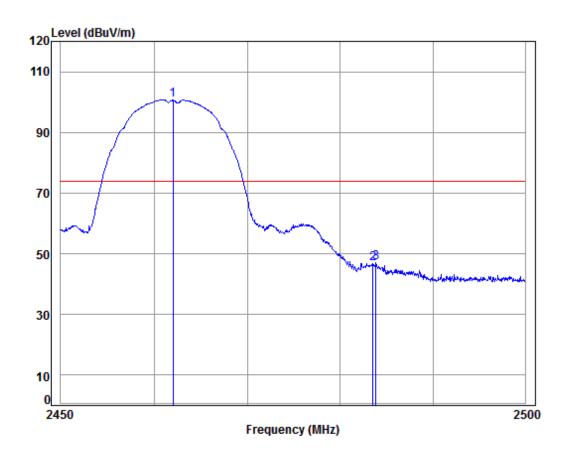
	_										
			Cable	Ant	${\tt Preamp}$	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	_										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1		2389.968	5.47	29.08	37.96	39.77	36.36	54.00	-17.64	Average	
2		2390.000	5.47	29.08	37.96	39.77	36.36	54.00	-17.64	Average	
3	pp	2412.000	5.50	29.14	37.95	102.05	98.74	54.00	44.74	Average	



Report No.: SZEM170800926002

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Worse case mode: 80	02.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No : 09260RG

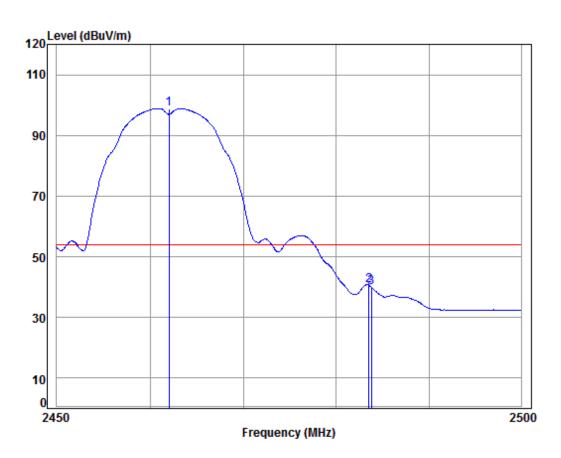
W.	rce	. 2.4	a MILI	110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
	1 рр	2462.000	5.57	29.29	37.95	103.82	100.73	74.00	26.73	Peak	
	2	2483.500	5.60	29.35	37.95	49.70	46.70	74.00	-27.30	Peak	
	3	2483.840	5.60	29.35	37.95	50.14	47.14	74.00	-26.86	Peak	



Report No.: SZEM170800926002

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



Condition: 3m VERTICAL

Job No : 09260RG

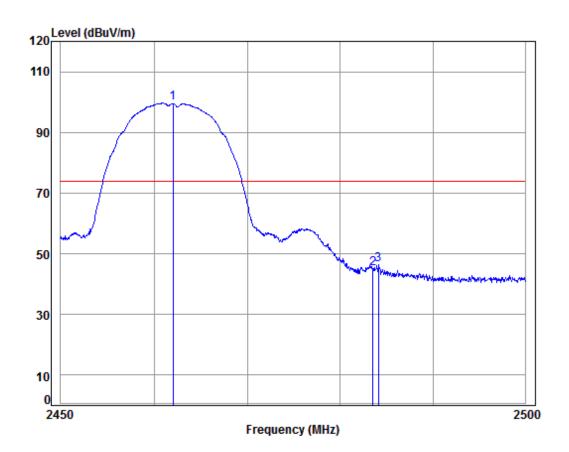
	_			110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
											_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	2462.000	5.57	29.29	37.95	101.94	98.85	54.00	44.85	Average	
2		2483.500	5.60	29.35	37.95	43.65	40.65	54.00	-13.35	Average	
3		2483.790	5.60	29.35	37.95	42.90	39.90	54.00	-14.10	Average	



Report No.: SZEM170800926002

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Worse case mode: 802.1	1b Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No : 09260RG

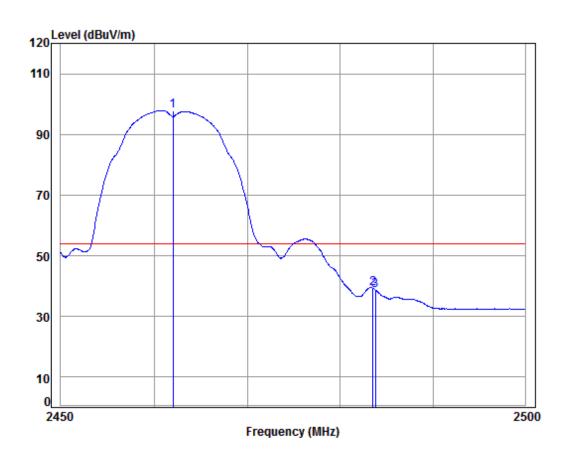
Freq				Read Level				Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000 2 2483.500 3 2484.091	5.60	29.35	37.95	48.14	45.14	74.00	-28.86	peak



Report No.: SZEM170800926002

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



Condition: 3m HORIZONTAL

Job No : 09260RG

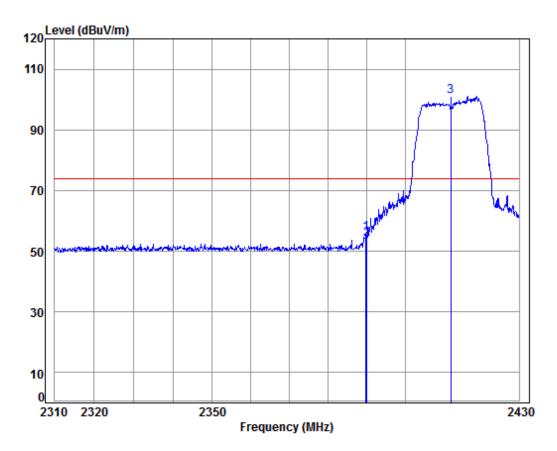
~ ~ .				110							
			Cable	Ant	Preamp	Read		Limit	0ver		
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	pp	2462.000	5.57	29.29	37.95	100.91	97.82	54.00	43.82	Average	
2		2483.500	5.60	29.35	37.95	42.37	39.37	54.00	-14.63	Average	
3		2483.790	5.60	29.35	37.95	41.73	38.73	54.00	-15.27	Average	



Report No.: SZEM170800926002

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Worse ca	se mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition : 3m VERTICAL Job No : 09260RG

Mode : 2412 Band edge Note : 2.4G WiFi 11G

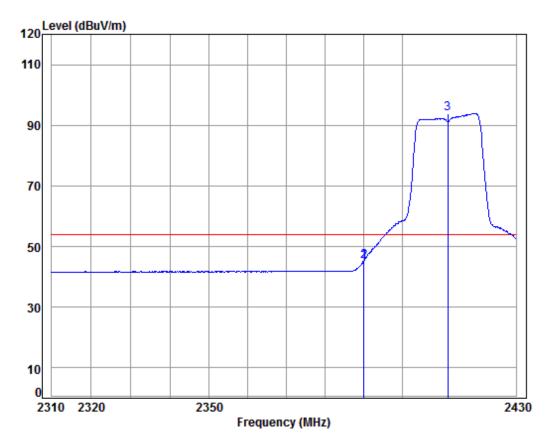
		Freq					Level			Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.726	5.47	29.08	37.96	59.24	55.83	74.00	-18.17	Peak
2		2390.000	5.47	29.08	37.96	57.37	53.96	74.00	-20.04	Peak
3	pp	2412.000	5.50	29.14	37.95	104.50	101.19	74.00	27.19	Peak



Report No.: SZEM170800926002

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Worse case mode: 802.11g	Test channel:	Lowest	Remark:	Average	Vertical	ı
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Condition : 3m VERTICAL

Job No : 09260RG

Mode : 2412 Band edge Note : 2.4G WiFi 11G

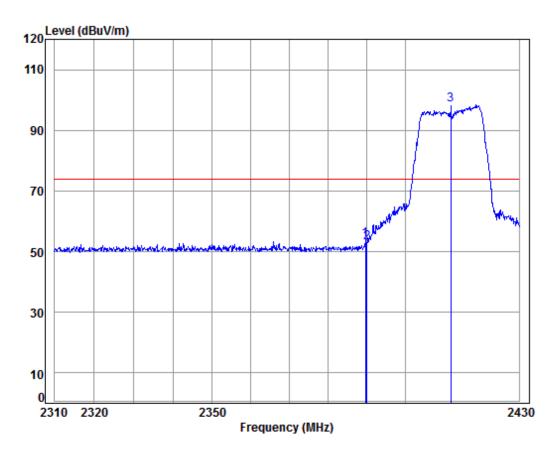
	Freq						Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	29.08	37.96	48.57	45.16	54.00	-8.84	Average
2	2390.000	5.47	29.08	37.96	48.57	45.16	54.00	-8.84	Average
3 pp	2412.000	5.50	29.14	37.95	97.22	93.91	54.00	39.91	Average



Report No.: SZEM170800926002

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World data model of the first o	Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2412 Band edge Note : 2.4G WiFi 11G

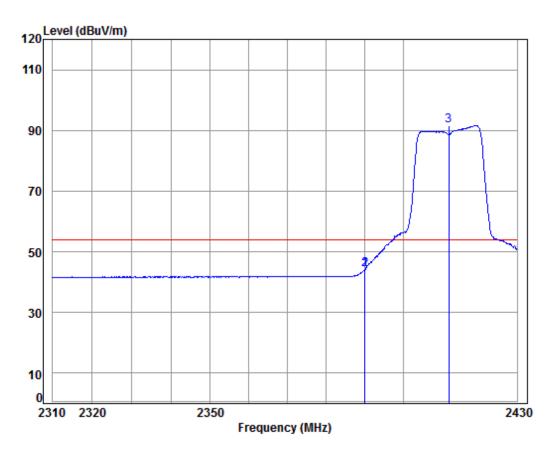
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.605	5.47	29.08	37.96	57.46	54.05	74.00	-19.95	peak
2	2390.000	5.47	29.08	37.96	56.49	53.08	74.00	-20.92	peak
3 pp	2412.000	5.50	29.14	37.95	101.79	98.48	74.00	24.48	peak



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



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2412 Band edge Note : 2.4G WiFi 11G

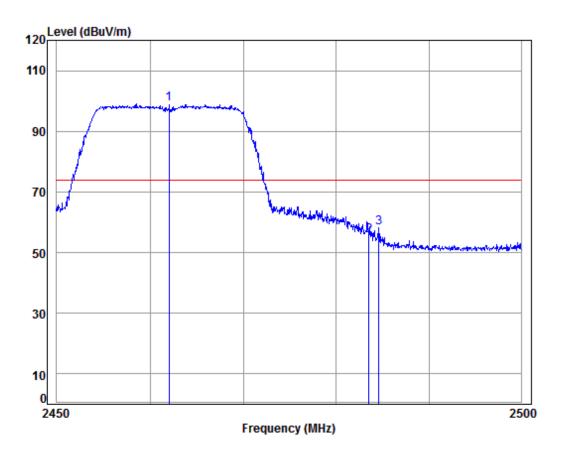
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	29.08	37.96	47.49	44.08	54.00	-9.92	Average
2	2390.000	5.47	29.08	37.96	47.49	44.08	54.00	-9.92	Average
3 pp	2412.000	5.50	29.14	37.95	94.87	91.56	54.00	37.56	Average



Report No.: SZEM170800926002

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Worse case mode: 8	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Condition : 3m VERTICAL

Job No : 09260RG

Mode : 2462 Band edge Note : 2.4G WiFi 11G

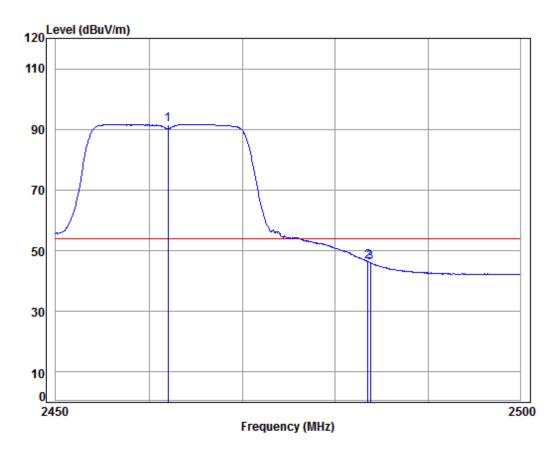
Freq			•	Read Level				Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.57	29.29	37.95	102.15	99.06	74.00	25.06	Peak
2 2483.500	5.60	29.35	37.95	58.63	55.63	74.00	-18.37	Peak
3 2484.593	5.60	29.36	37.95	61.27	58.28	74.00	-15.72	Peak



Report No.: SZEM170800926002

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



Condition : 3m VERTICAL

Job No : 09260RG

Mode : 2462 Band edge Note : 2.4G WiFi 11G

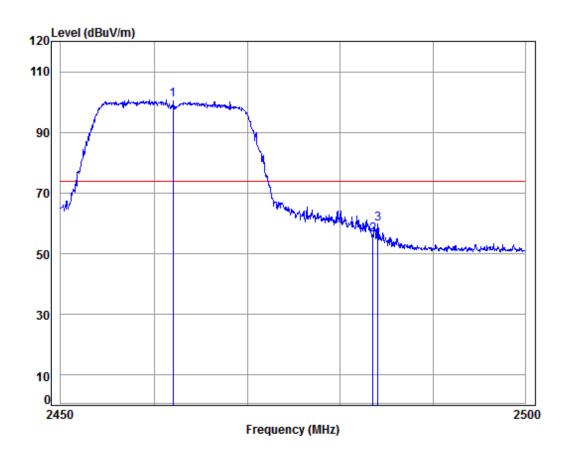
Freq						Limit Line		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.57	29.29	37.95	94.69	91.60	54.00	37.60	Average
2 2483.500	5.60	29.35	37.95	49.47	46.47	54.00	-7.53	Average
3 2483.790	5.60	29.35	37.95	48.94	45.94	54.00	-8.06	Average



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Worse case mode: 802	02.11g Test channel:	Highest Remark:	Peak	Horizontal
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Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2462 Band edge Note : 2.4G WiFi 11G

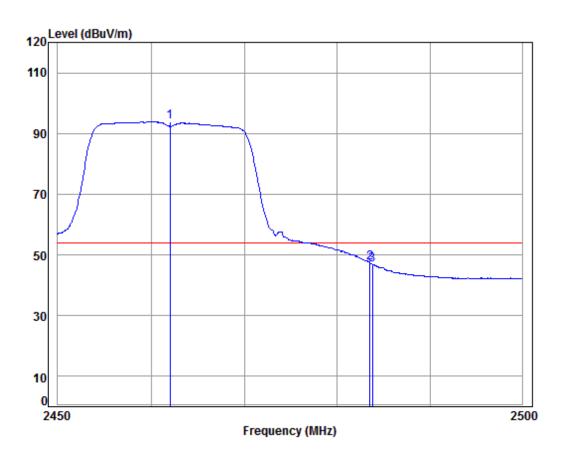
Freq						Limit Line		Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.57	29.29	37.95	103.94	100.85	74.00	26.85	peak
2 2483.500	5.60	29.35	37.95	59.39	56.39	74.00	-17.61	peak
3 2484.041	5.60	29.35	37.95	62.74	59.74	74.00	-14.26	peak



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



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2462 Band edge Note : 2.4G WiFi 11G

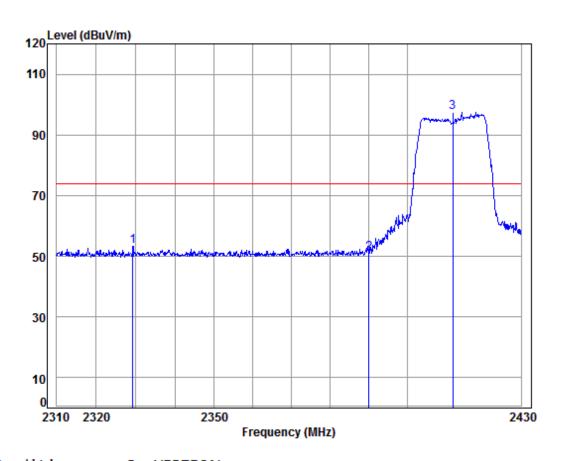
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.57	29.29	37.95	96.93	93.84	54.00	39.84	Average
2 2483.500	5.60	29.35	37.95	50.34	47.34	54.00	-6.66	Average
3 2483.790	5.60	29.35	37.95	49.92	46.92	54.00	-7.08	Average



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



Condition : 3m VERTICAL Job No : 09260RG

Mode : 2412 Band edge Note : 2.4G WiFi 11N20

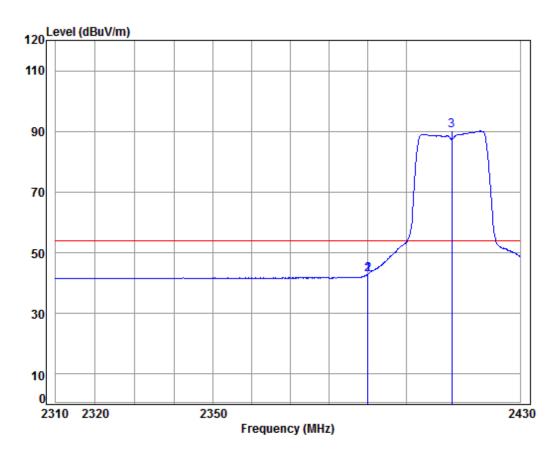
		Freq				Read Level				Remark	
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1		2329.266	5.39	28.89	37.96	56.95	53.27	74.00	-20.73	Peak	
2		2390.000	5.47	29.08	37.96	54.54	51.13	74.00	-22.87	Peak	
3	pp	2412.000	5.50	29.14	37.95	100.73	97.42	74.00	23.42	Peak	



Report No.: SZEM170800926002

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

Job No : 09260RG

Mode : 2412 Band edge Note : 2.4G WiFi 11N20

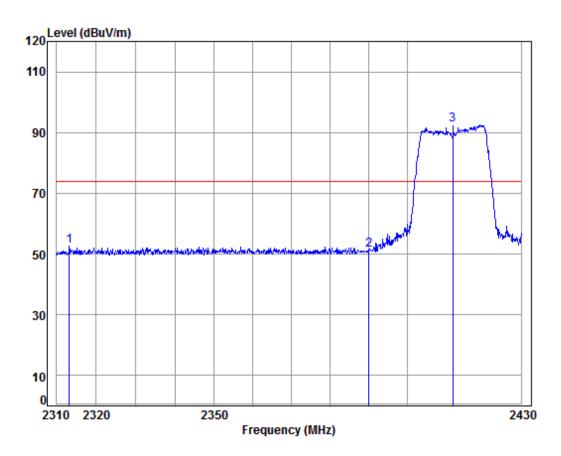
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	29.08	37.96	46.32	42.91	54.00	-11.09	Average
2	2390.000	5.47	29.08	37.96	46.32	42.91	54.00	-11.09	Average
3 рр	2412.000	5.50	29.14	37.95	93.39	90.08	54.00	36.08	Average



Report No.: SZEM170800926002

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Worse case mode: 802	02.11n(HT20) Test channel:	Lowest Remark:	Peak	Horizontal
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Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2412 Band edge Note : 2.4G WiFi 11N20

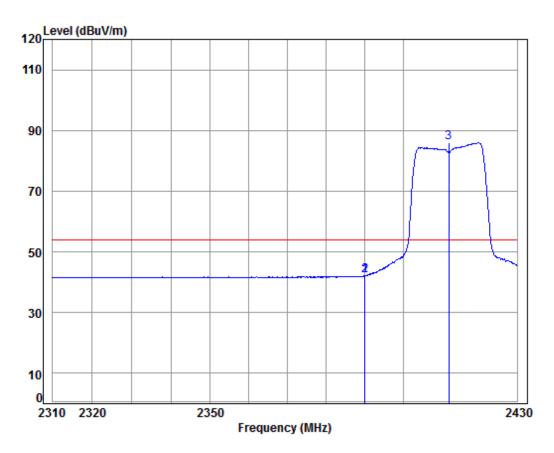
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2313.278	5.37	28.84	37.96	56.44	52.69	74.00	-21.31	peak
2	2390.000	5.47	29.08	37.96	54.86	51.45	74.00	-22.55	peak
3 pp	2412.000	5.50	29.14	37.95	95.84	92.53	74.00	18.53	peak



Report No.: SZEM170800926002

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



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2412 Band edge Note : 2.4G WiFi 11N20

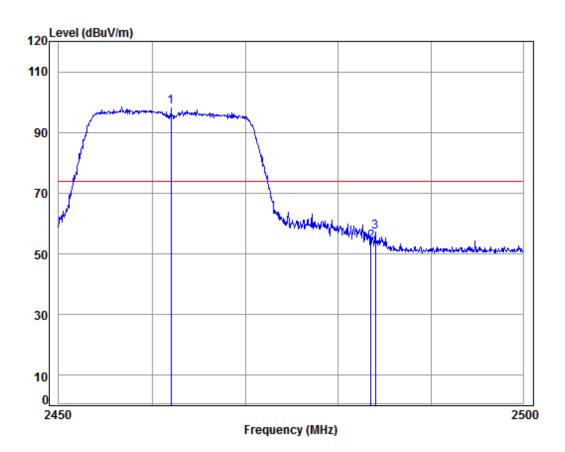
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	29.08	37.96	45.49	42.08	54.00	-11.92	Average
2	2390.000	5.47	29.08	37.96	45.49	42.08	54.00	-11.92	Average
3 рр	2412.000	5.50	29.14	37.95	89.22	85.91	54.00	31.91	Average



Report No.: SZEM170800926002

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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
	(- /		3			



Condition : 3m VERTICAL

Job No : 09260RG

Mode : 2462 Band edge Note : 2.4G WiFi 11N20

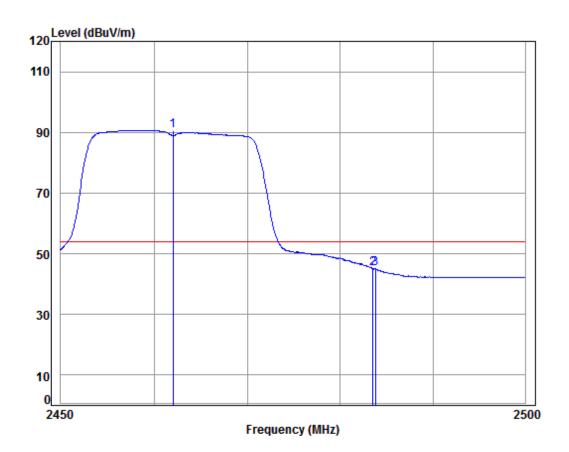
Freq				Read Level				Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.57	29.29	37.95	101.42	98.33	74.00	24.33	Peak
2 2483.500	5.60	29.35	37.95	56.83	53.83	74.00	-20.17	Peak
3 2483.990	5.60	29.35	37.95	60.37	57.37	74.00	-16.63	Peak



Report No.: SZEM170800926002

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



Condition : 3m VERTICAL Job No : 09260RG

Mode : 2462 Band edge Note : 2.4G WiFi 11N20

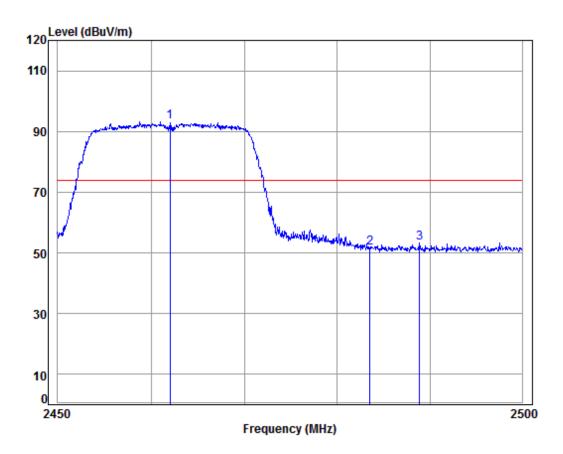
0111	secting.									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 pp	2462.000	5.57	29.29	37.95	93.73	90.64	54.00	36.64	Average	
2	2483.500	5.60	29.35	37.95	48.13	45.13	54.00	-8.87	Average	
3	2483.790	5.60	29.35	37.95	48.06	45.06	54.00	-8.94	Average	



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١	Norse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
_		00-11.11(11.0)		1 9			



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2462 Band edge Note : 2.4G WiFi 11N20

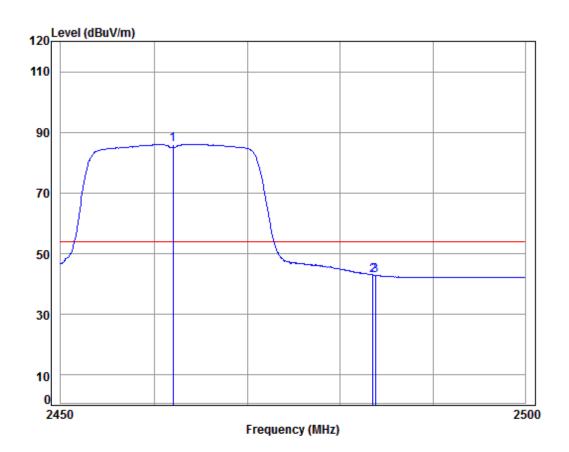
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	29.29	37.95	96.28	93.19	74.00	19.19	peak
2	2483.500	5.60	29.35	37.95	54.60	51.60	74.00	-22.40	peak
3	2488.863	5.61	29.37	37.95	56.37	53.40	74.00	-20.60	peak



Report No.: SZEM170800926002

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



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2462 Band edge Note : 2.4G WiFi 11N20

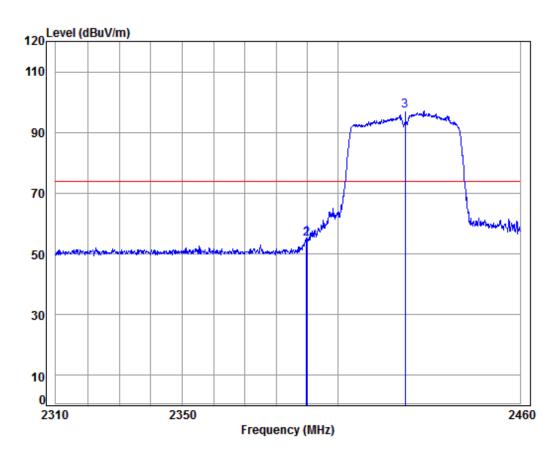
	2									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
							-			
1 pp	2462.000	5.57	29.29	37.95	89.20	86.11	54.00	32.11	Average	
2	2483.500								_	
3	2483.790								_	



Report No.: SZEM170800926002

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



Condition : 3m VERTICAL Job No : 09260RG

Mode : 2422 Band edge Note : 2.4G WiFi 11N40

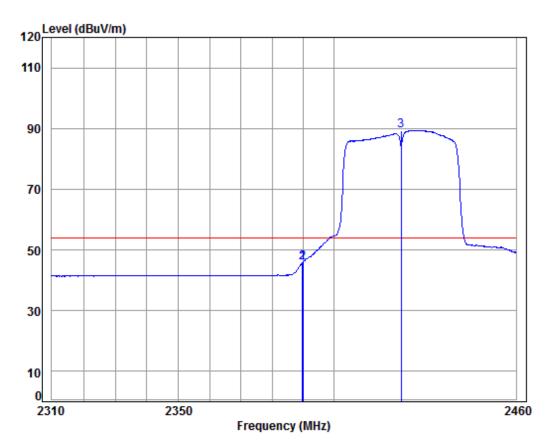
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.47	29.08	37.96	58.59	55.18	74.00	-18.82	Peak
2	2390.000	5.47	29.08	37.96	58.28	54.87	74.00	-19.13	Peak
3 pp	2422.000	5.52	29.17	37.95	100.39	97.13	74.00	23.13	Peak



Report No.: SZEM170800926002

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



Condition : 3m VERTICAL Job No : 09260RG

Mode : 2422 Band edge Note : 2.4G WiFi 11N40

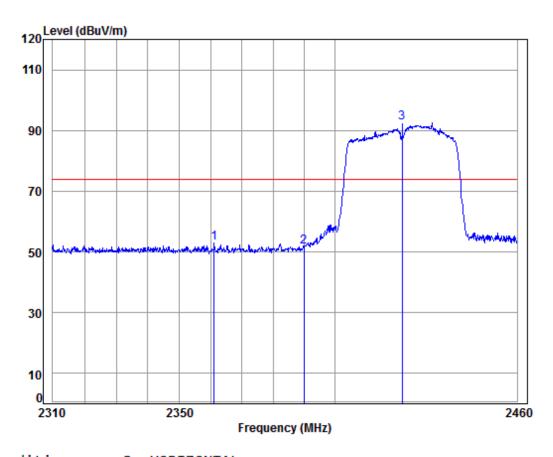
	200011118	_								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.827	5.47	29.08	37.96	49.17	45.76	54.00	-8.24	Average	
2	2390.000	5.47	29.08	37.96	49.25	45.84	54.00	-8.16	Average	
3 pp	2422.000	5.52	29.17	37.95	92.65	89.39	54.00	35.39	Average	



Report No.: SZEM170800926002

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



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2422 Band edge Note : 2.4G WiFi 11N40

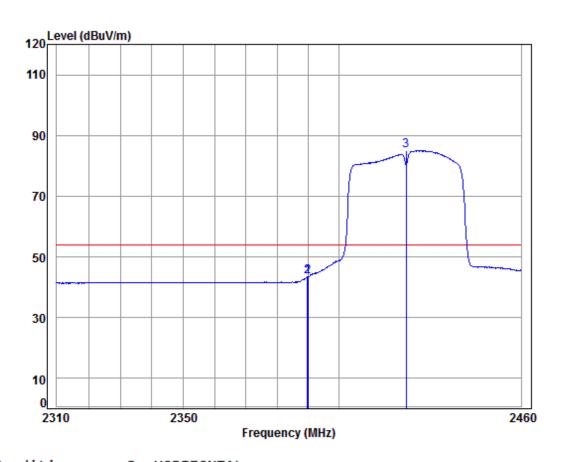
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			-				-		
1	2361.133	5.44	28.99	37.96	56.40	52.87	74.00	-21.13	peak
2	2390.000	5.47	29.08	37.96	55.12	51.71	74.00	-22.29	peak
3 рр	2422.000	5.52	29.17	37.95	95.64	92.38	74.00	18.38	peak



Report No.: SZEM170800926002

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



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2422 Band edge Note : 2.4G WiFi 11N40

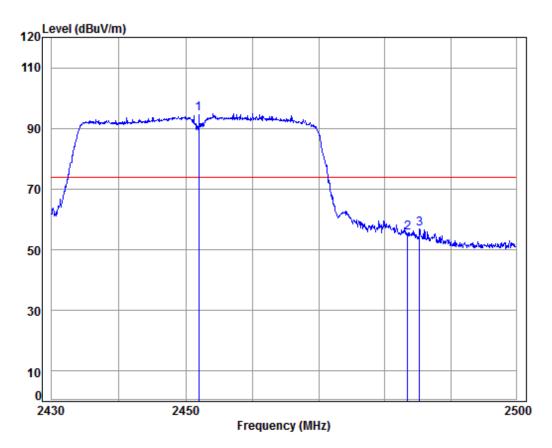
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.47	29.08	37.96	46.88	43.47	54.00	-10.53	Average
2	2390.000	5.47	29.08	37.96	46.77	43.36	54.00	-10.64	Average
3 pp	2422.000	5.52	29.17	37.95	88.21	84.95	54.00	30.95	Average



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



Condition : 3m VERTICAL

Job No : 09260RG

Mode : 2452 Band edge Note : 2.4G WiFi 11N40

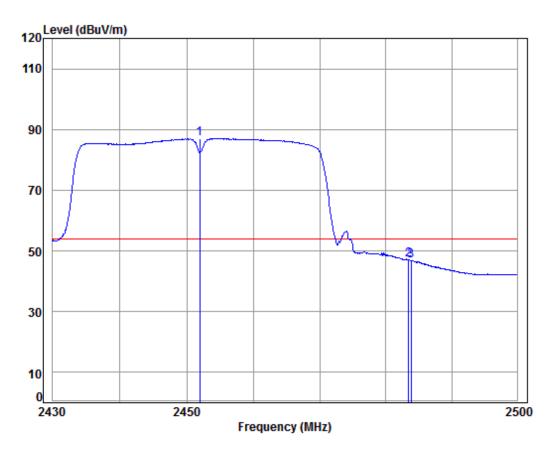
	Грод	Cable		Preamp					Pamanle
			-actor	Factor	Level	rever	Line		Nelliark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	5.56	29.26	37.95	97.84	94.71	74.00	20.71	Peak
2	2483.500	5.60	29.35	37.95	58.69	55.69	74.00	-18.31	Peak
3	2485.276	5.60	29.36	37.95	59.82	56.83	74.00	-17.17	Peak



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



Condition : 3m VERTICAL Job No : 09260RG

Mode : 2452 Band edge Note : 2.4G WiFi 11N40

Power Setting: 9

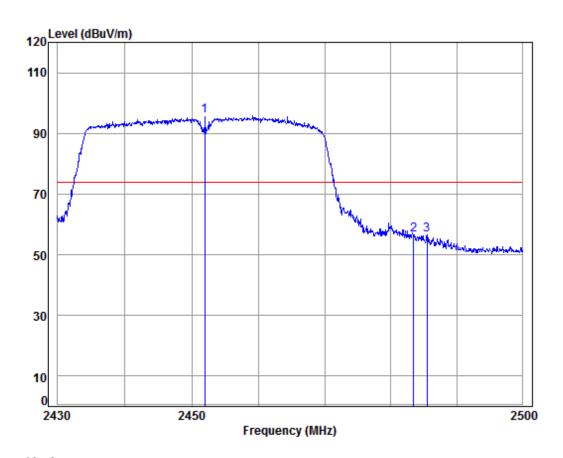
Cable Ant Preamp Read Limit 0ver Frea Loss Factor Factor Level Level Line Limit Remark MHz dBuV dBuV/m dBuV/m dB dB dB/m dΒ 1 pp 2452.000 5.56 29.26 37.95 90.14 87.01 54.00 33.01 Average 2 2483.500 5.60 29.35 37.95 49.97 46.97 54.00 -7.03 Average 3 2483.865 5.60 29.35 37.95 49.77 46.77 54.00 -7.23 Average



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



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2452 Band edge Note : 2.4G WiFi 11N40

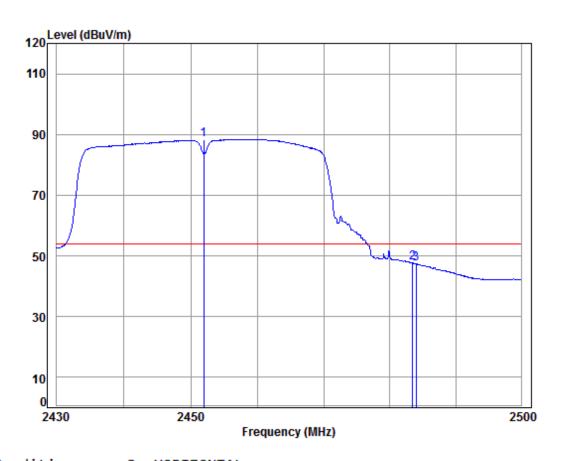
	Freq			Preamp Factor					
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	5.56	29.26	37.95	98.78	95.65	74.00	21.65	peak
2	2483.500	5.60	29.35	37.95	59.73	56.73	74.00	-17.27	peak
3	2485.488	5.60	29.36	37.95	59.48	56.49	74.00	-17.51	peak



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



Condition : 3m HORIZONTAL

Job No : 09260RG

Mode : 2452 Band edge Note : 2.4G WiFi 11N40

Fre	Cable q Loss		Preamp Factor					
MH	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2452.00 2 2483.50 3 2484.00	0 5.60	29.35	37.95	50.65	47.65	54.00	-6.35	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

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1708009260RG.