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Report No.: SZEM150500255103
Page: 1 of 127

FCC REPORT

Application No: SZEM1505002551HR
Applicant: Acer Incorporated
Manufacturer: Acer Incorporated
Factory: Shenzhen Neostra Technology Co.,Ltd.
 Product Name: Tablet Computer
 Model No.(EUT): A5007
 Trade Mark: acer
 Marketing Name: B1-770
FCC ID: HLZA5007
Standards: 47 CFR Part 15, Subpart C (2014)
Date of Receipt: 2015-05-18
Date of Test: 2015-05-21 to 2015-05-22
Date of Issue: 2015-06-04

Test Result:	PASS *
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. * In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

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

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

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-06-04		Original

Authorized for issue by:				
Tested By				2015-05-22
				Date
Prepared By				2015-06-04
				Date
Checked By				2015-06-04
				Date



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 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	KDB558074 D01 v03r02	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01 v03r02	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01 v03r02	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Remark : There are two adapters for this EUT, pre-scan for all of the adapter and find the model W12-010N3A which is the worse case, so only test data of this model adapter is shown in this report.			



4 Contents

	Page
1 COVER PAGE.....	1
2 VERSION	2
3 TEST SUMMARY	3
4 CONTENTS	4
5 GENERAL INFORMATION.....	5
5.1 CLIENT INFORMATION	5
5.2 GENERAL DESCRIPTION OF EUT	5
5.3 TEST ENVIRONMENT AND MODE	7
5.4 DESCRIPTION OF SUPPORT UNITS	7
5.5 TEST LOCATION	7
5.6 TEST FACILITY	8
5.7 DEVIATION FROM STANDARDS	8
5.8 ABNORMALITIES FROM STANDARD CONDITIONS	8
5.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	8
5.10 EQUIPMENT LIST	9
6 TEST RESULTS AND MEASUREMENT DATA.....	12
6.1 ANTENNA REQUIREMENT.....	12
6.2 CONDUCTED EMISSIONS	13
6.3 CONDUCTED PEAK OUTPUT POWER	17
6.4 6dB OCCUPY BANDWIDTH	31
6.5 POWER SPECTRAL DENSITY	39
6.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS	47
6.7 RF CONDUCTED SPURIOUS EMISSIONS	52
6.8 RADIATED SPURIOUS EMISSIONS.....	95
6.8.1 Radiated emission below 1GHz.....	98
6.8.2 Transmitter emission above 1GHz.....	100
6.9 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY	108
7 PHOTOGRAPHS - EUT TEST SETUP	126
7.1 RADIATED SPURIOUS EMISSION.....	126
7.2 CONDUCTED EMISSION.....	127
8 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	127



5 General Information

5.1 Client Information

Applicant:	Acer Incorporated
Address of Applicant:	8F, 88, Sec 1, Hsin Tai Wu Rd Hsichih, Taipei Hsien, 221Taiwan
Manufacturer:	Acer Incorporated
Address of Manufacturer:	8F, 88, Sec 1, Hsin Tai Wu Rd Hsichih, Taipei Hsien, 221Taiwan
Factory:	Shenzhen Neostra Technology Co.,Ltd.
Address of Factory:	Build 7, Huai De Cui Hai Industrial Park, Fu Yong Town, Bao'an District, Shenzhen, China.

5.2 General Description of EUT

Product Name:	Tablet Computer
Model No.:	A5007
Trade Mark:	acer
Marketing Name:	B1-770
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)
Sample Type:	Portable production
Antenna Type:	Monopole
Antenna Gain:	1.5dBi
Battery:	Lithium-ion battery:3.7V 2700mAh
Adapter 1:	MODEL:W12-010N3A INPUT:AC 100-240V~ 50/60Hz 0.3A OUTPUT:5.0V = 2A
Adapter 2:	Model:ASUC12a-050150 Input: AC100-240V 50/60Hz 0.3A Output:DC5V 1.5A
Cable length/material:	USB cable:80cm unshielded



Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel(802.11n HT40)							
Channel		Frequency		Channel		Frequency	
1		2422MHz		4		2437MHz	
2		2427MHz		5		2442MHz	
3		2432MHz		6		2447MHz	

Note:

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

For 802.11b/g/n (HT20):

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

For 802.11n (HT40):

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





5.3 Test Environment and Mode

Operating Environment:	
Temperature:	26.0 °C
Humidity:	53 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kinds of modulation and all kinds 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 E&E Lab,

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

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

No tests were sub-contracted.



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.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

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

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

**5.10 Equipment List**

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2015-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2015-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2015-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2016-05-13
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
10	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2016-05-13



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 10 of 127

RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2015-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2015-10-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-24
9	Coaxial cable	SGS	N/A	SEL0027	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2016-05-13
18	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2015-10-24
19	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2016-05-13

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Report No.: SZEM150500255103

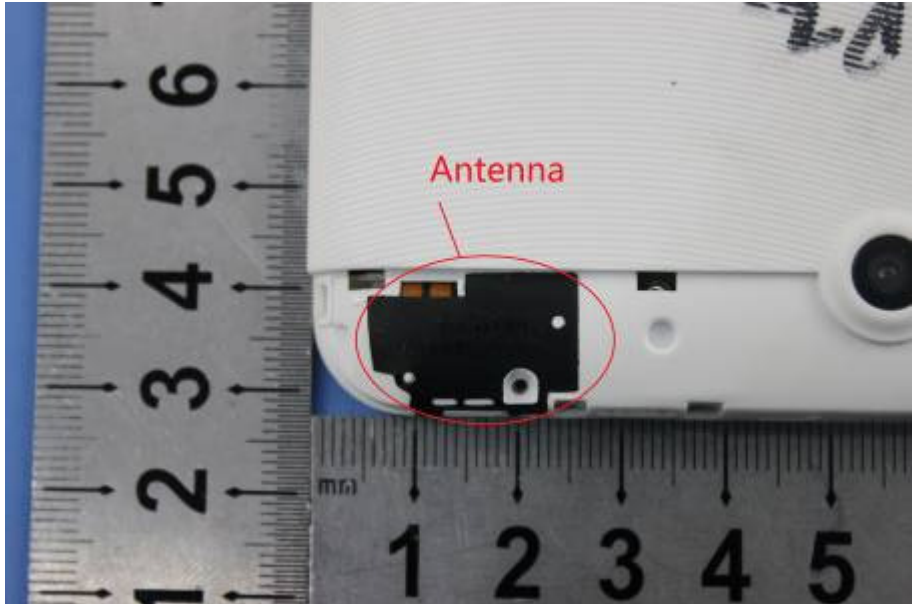
Page: 11 of 127

RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2016-04-25
8	Band filter	amideon	82346	SEL0094	2016-05-13
9	POWER METER	R & S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2016-04-25
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2015-10-24

Note: The calibration interval is one year, all the instruments are valid.

6 Test results and Measurement Data

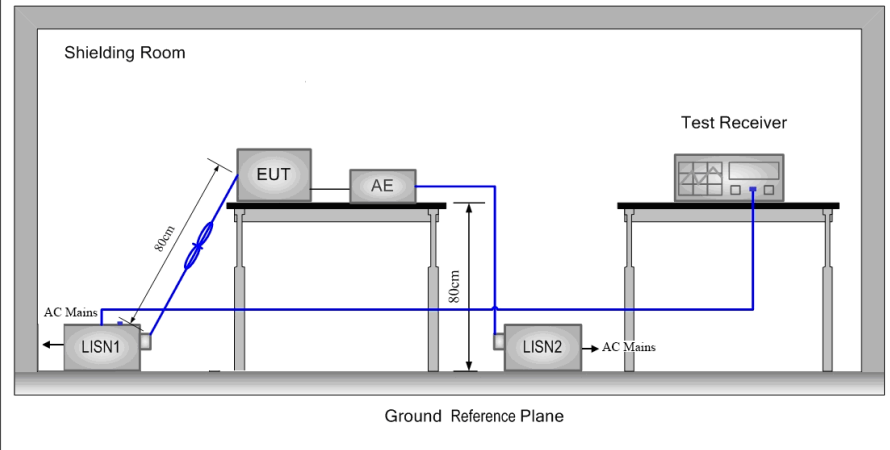
6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement:</p> <p>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.</p> <p>15.247(b) (4) requirement:</p> <p>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.</p>	
EUT Antenna:	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.5dBi.</p>	



6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2009		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none">1) The mains terminal disturbance voltage test was conducted in a shielded room.2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.		

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

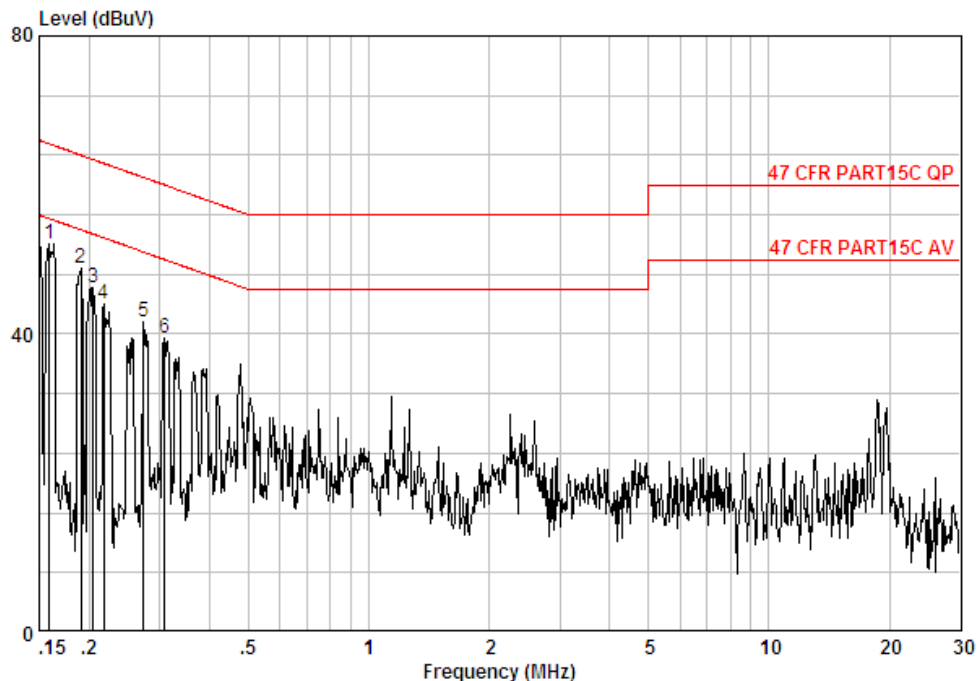


Measurement Data

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

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

Live Line:

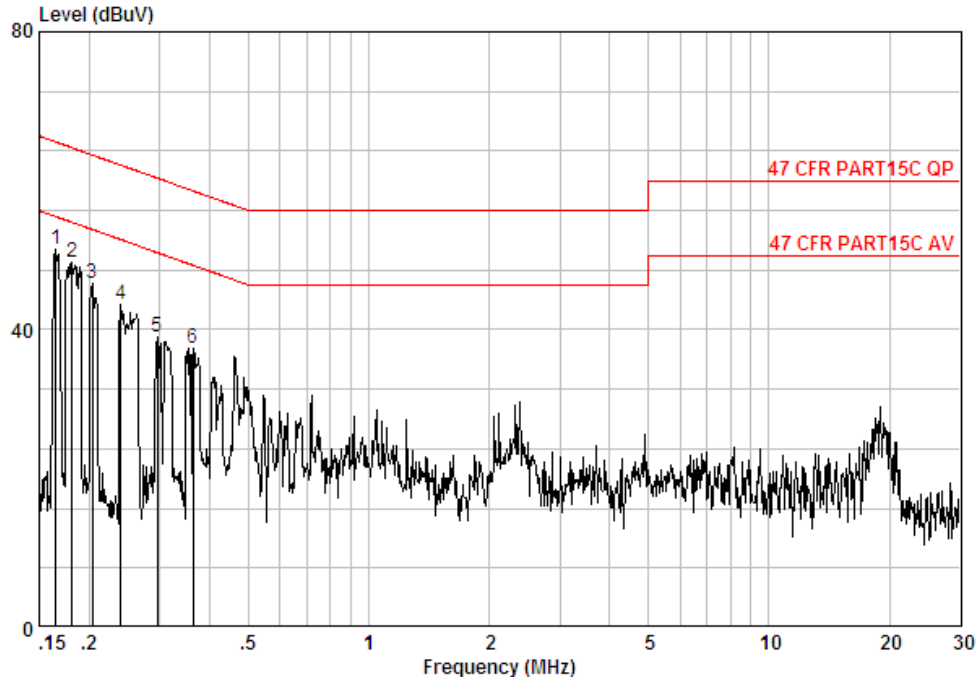


Site : Shielding Room
Condition : 47 CFR PART15C AV CE LINE
Job No. : 2551HR
Test Mode : Charge + TX

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.15900	0.02	9.82	42.36	55.52	-3.31	Peak
2	0.19039	0.02	9.83	39.00	54.02	-5.17	Peak
3	0.20505	0.02	9.83	36.44	53.40	-7.11	Peak
4	0.21735	0.02	9.83	34.15	52.92	-8.91	Peak
5	0.27297	0.01	9.84	31.72	51.03	-9.45	Peak
6	0.30834	0.01	9.84	29.64	50.02	-10.52	Peak



Neutral Line:



Site : Shielding Room
Condition : 47 CFR PART15C AV CE NEUTRAL
Job No. : 2551HR
Test Mode : Charge + TX

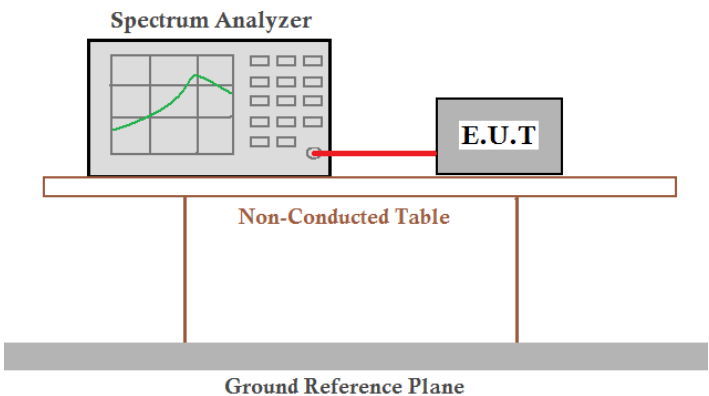
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16501	0.02	9.80	41.01	50.83	55.21	-4.38	Peak
2	0.18152	0.02	9.83	39.20	49.05	54.42	-5.37	Peak
3	0.20396	0.02	9.85	36.31	46.18	53.45	-7.27	Peak
4	0.24037	0.02	9.86	33.45	43.32	52.08	-8.76	Peak
5	0.29554	0.01	9.86	29.17	39.04	50.37	-11.33	Peak
6	0.36338	0.01	9.87	27.58	37.46	48.65	-11.19	Peak

Notes:

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



6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	KDB558074 D01 v03r02
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 5.10 for details
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:	30dBm
Test Results:	Pass

**Measurement Data**

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.10	30.00	Pass
Middle	20.56	30.00	Pass
Highest	20.61	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.69	30.00	Pass
Middle	22.98	30.00	Pass
Highest	21.27	30.00	Pass
802.11n(HT20)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	20.94	30.00	Pass
Middle	22.28	30.00	Pass
Highest	21.58	30.00	Pass
802.11n(HT40)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	19.16	30.00	Pass
Middle	22.46	30.00	Pass
Highest	19.54	30.00	Pass



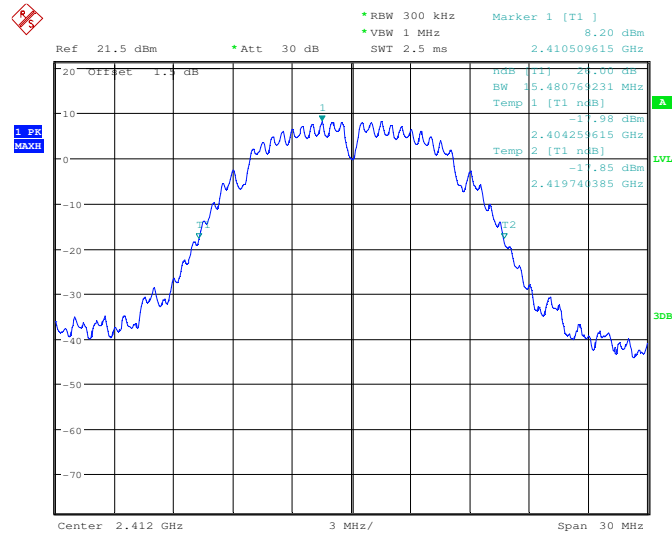
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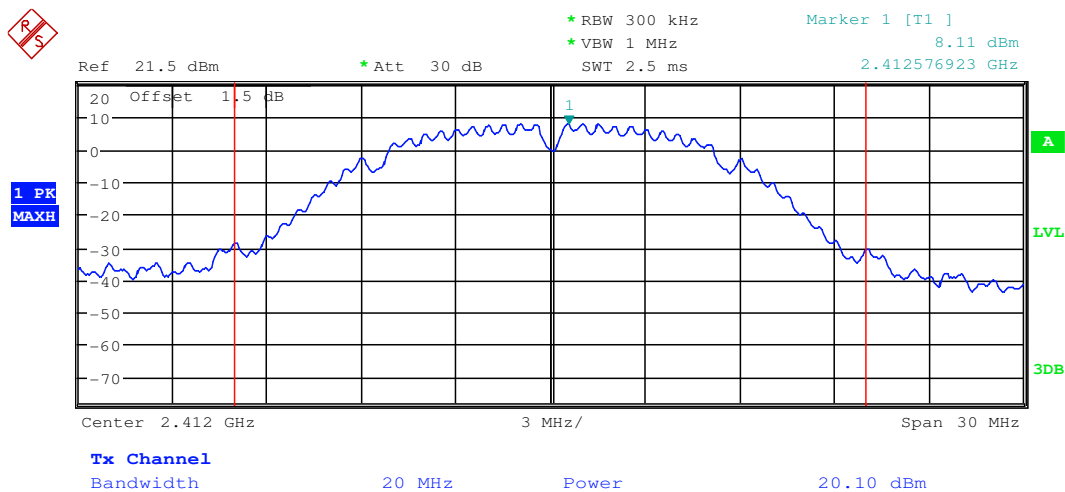
Page: 19 of 127

Test plot as follows:

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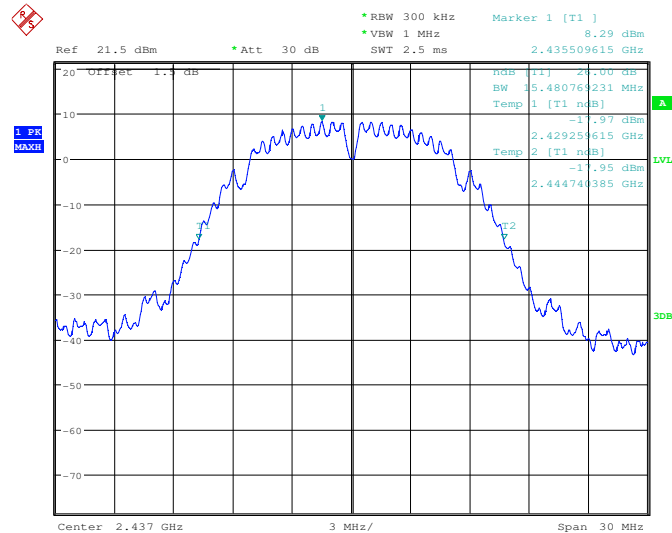


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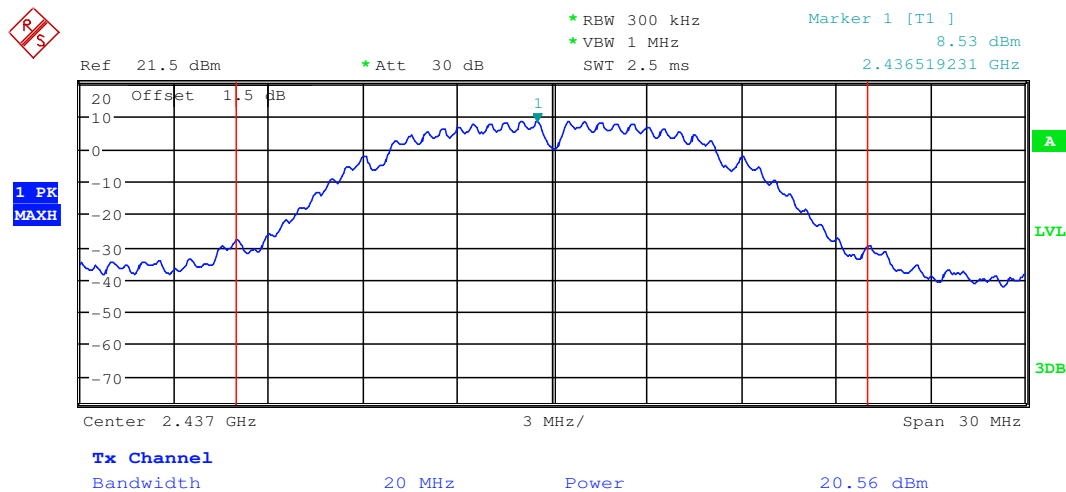
Report No.: SZEM150500255103

Page: 20 of 127

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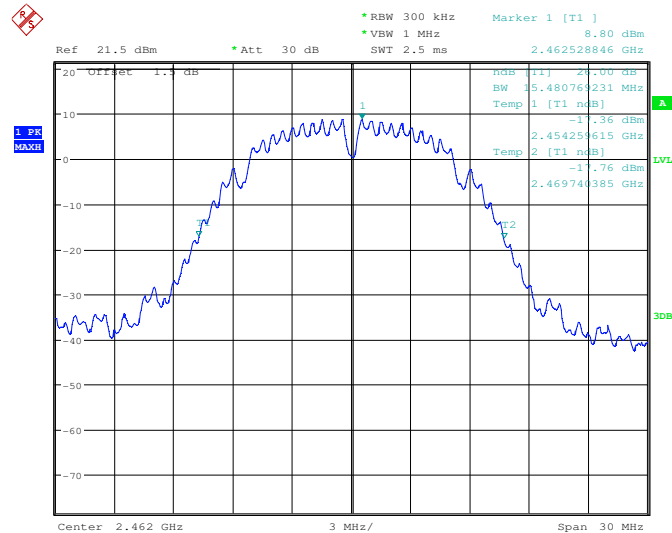


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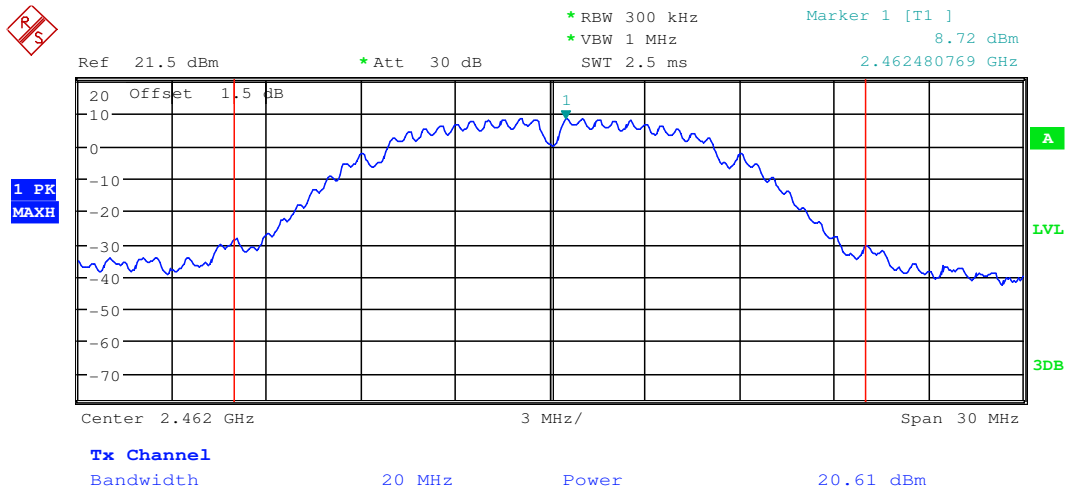
Report No.: SZEM150500255103

Page: 21 of 127

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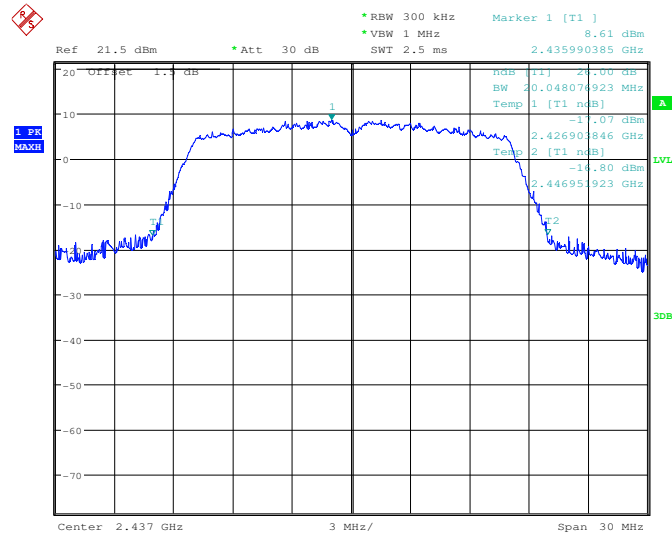


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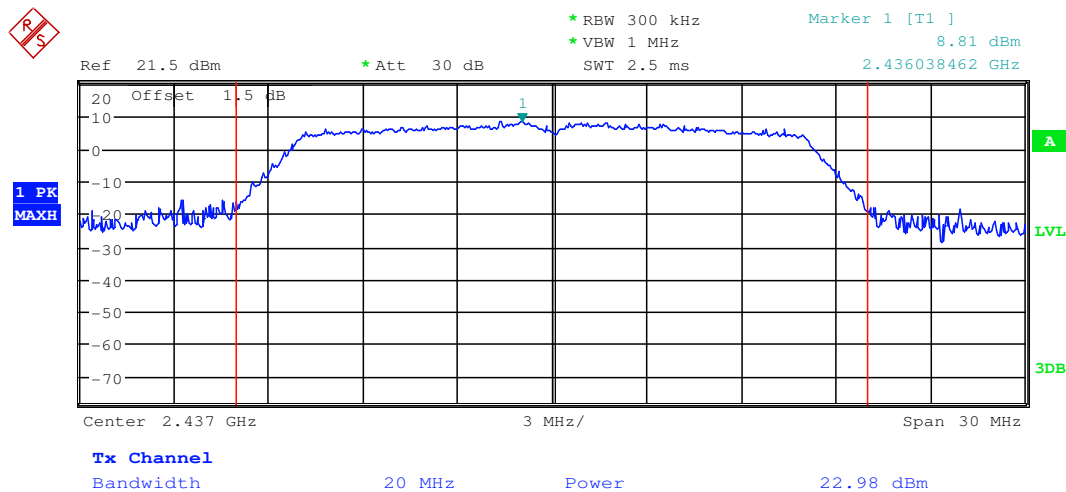
Report No.: SZEM150500255103

Page: 23 of 127

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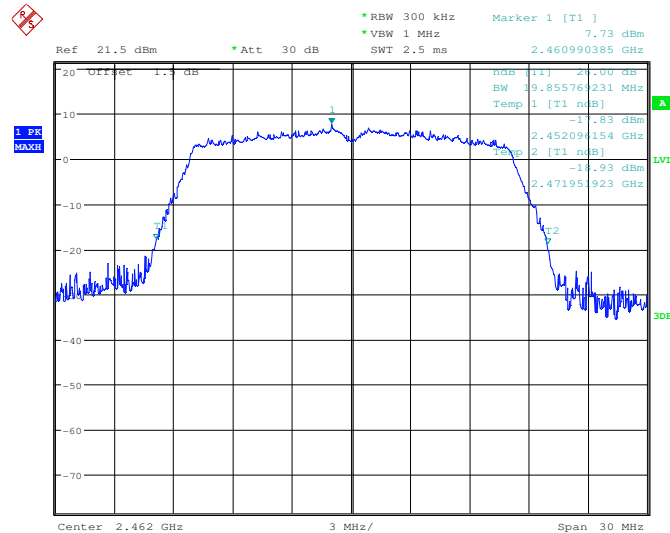


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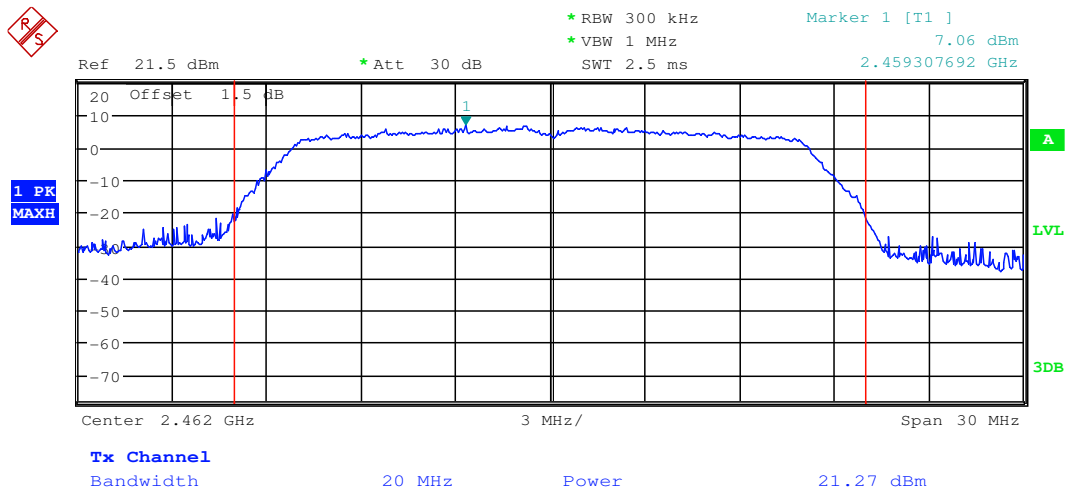
Report No.: SZEM150500255103

Page: 24 of 127

Test mode:	802.11g	Test channel:	Highest	-26 bandwidth
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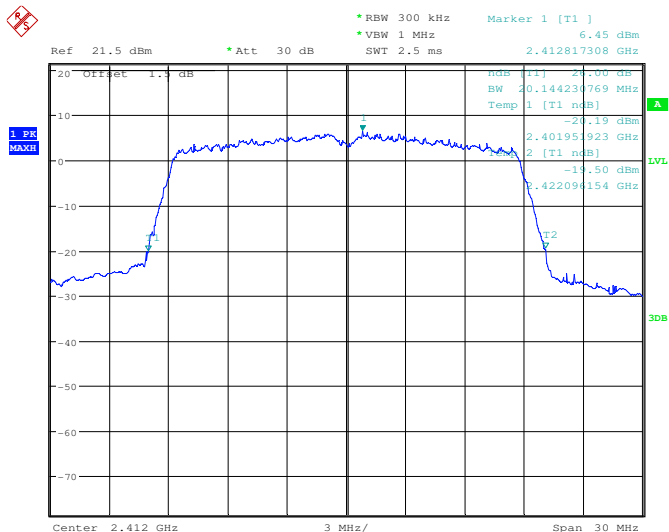
Test mode:	802.11g	Test channel:	Highest
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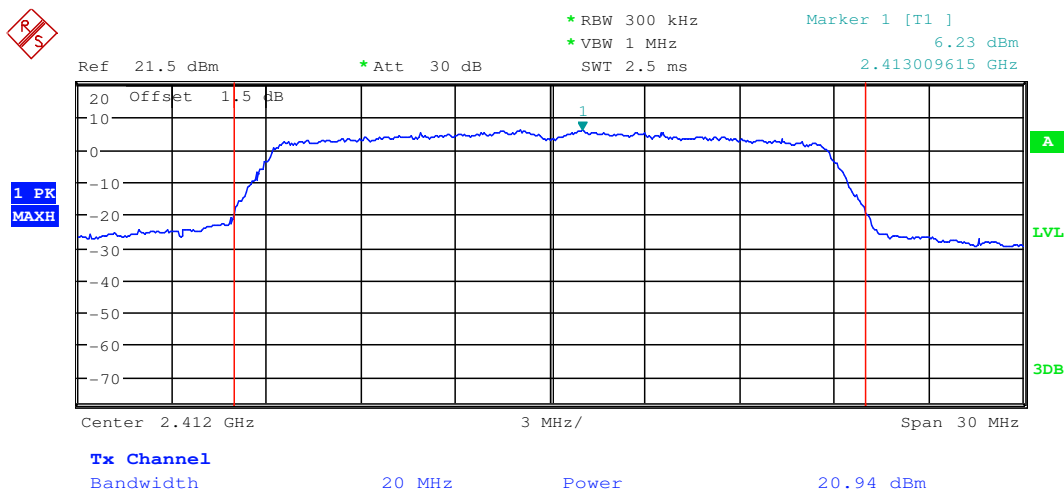
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Test mode:	802.11n(HT20)	Test channel:	Lowest	-26 bandwidth
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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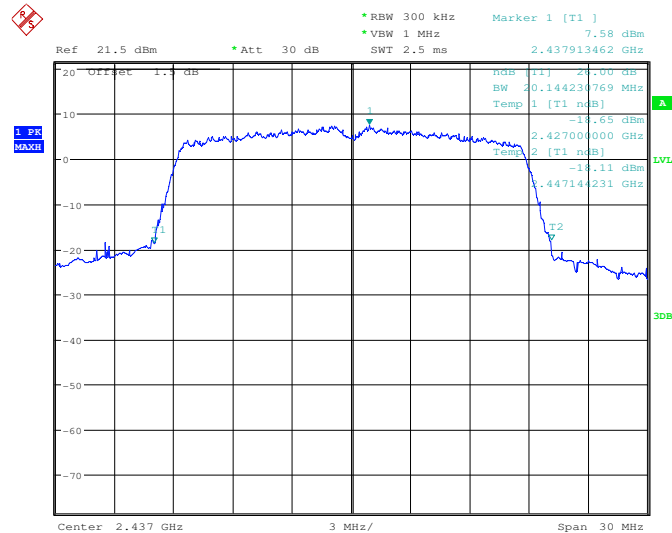


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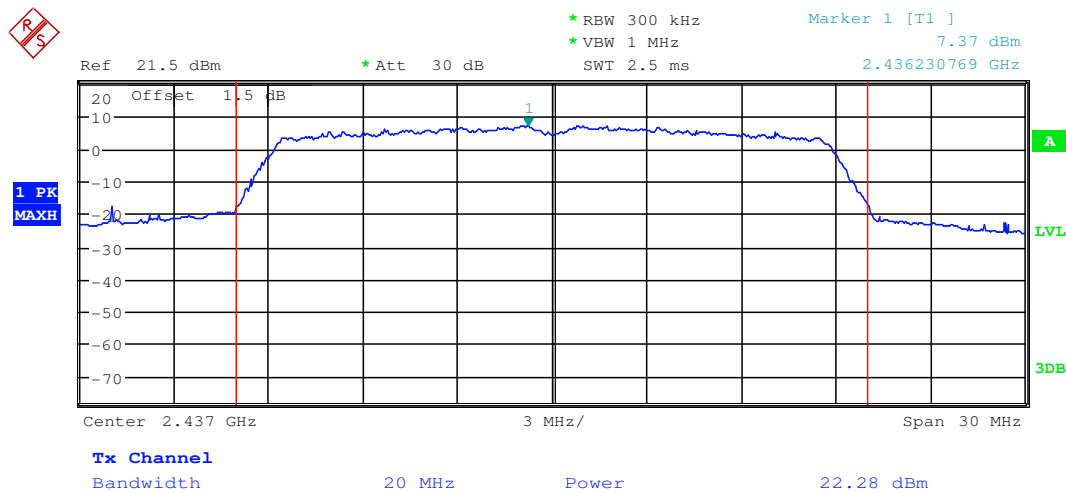
Report No.: SZEM150500255103

Page: 26 of 127

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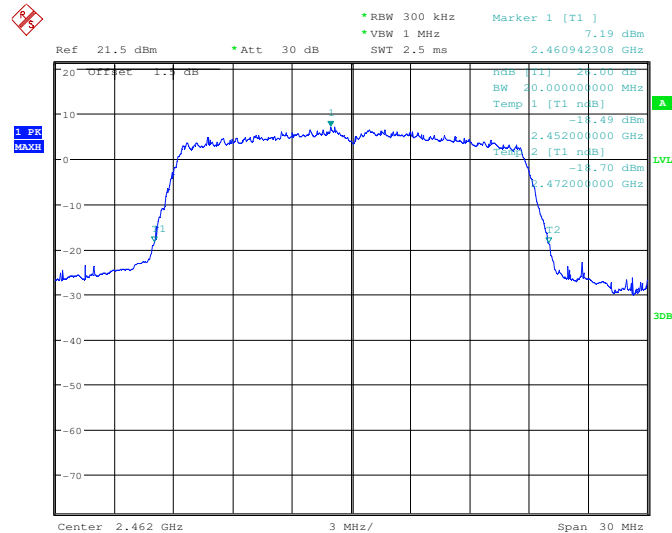


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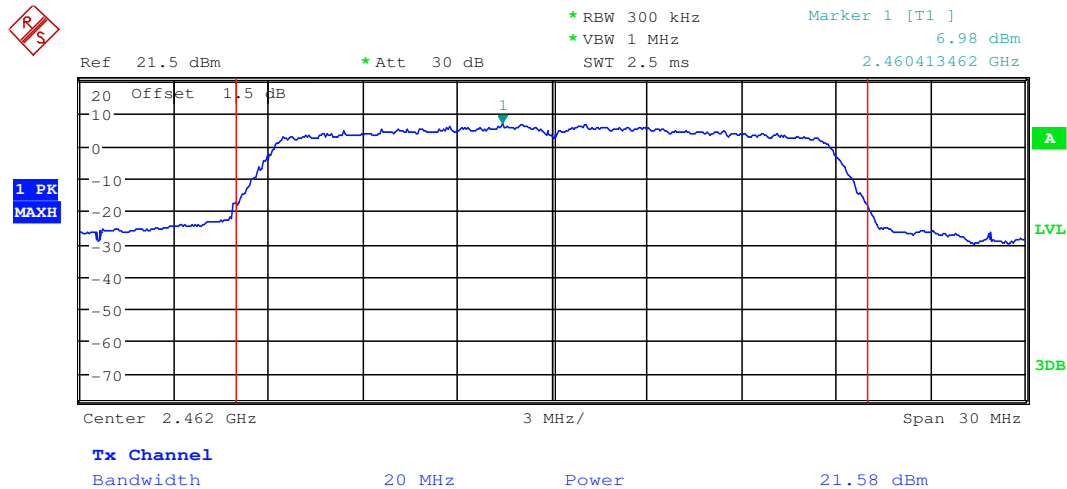
Report No.: SZEM150500255103

Page: 27 of 127

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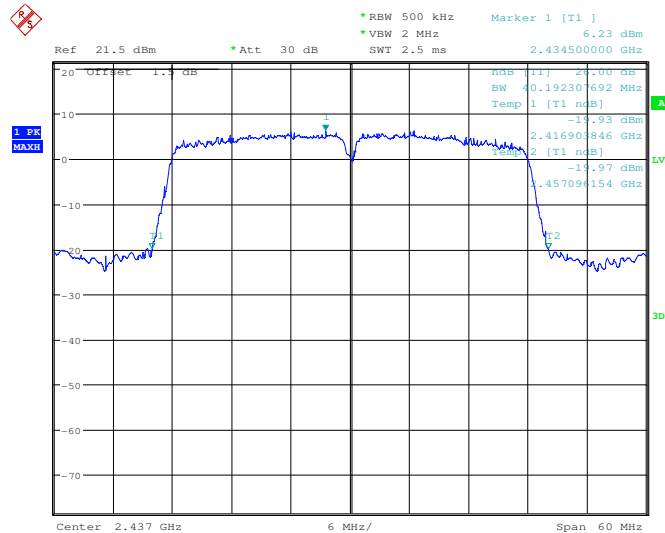


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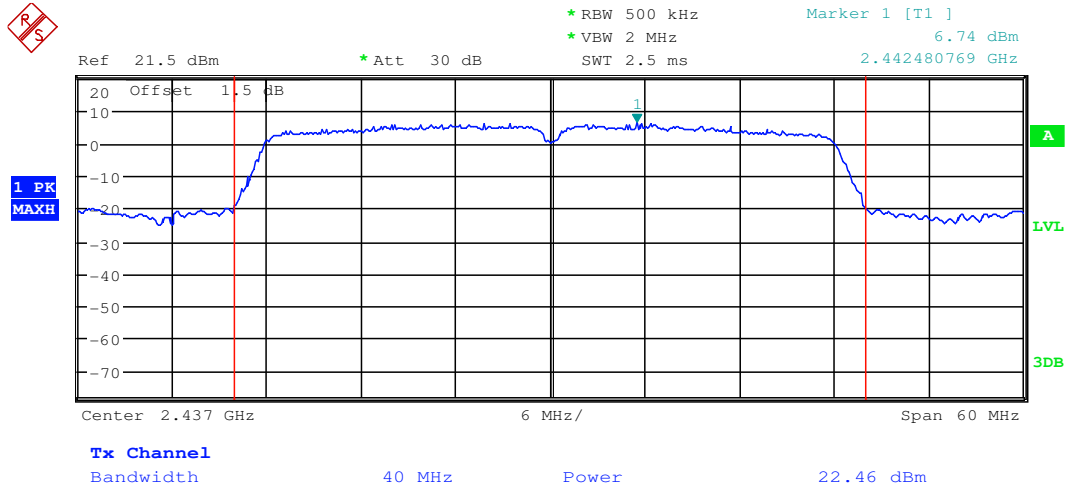
Report No.: SZEM150500255103

Page: 29 of 127

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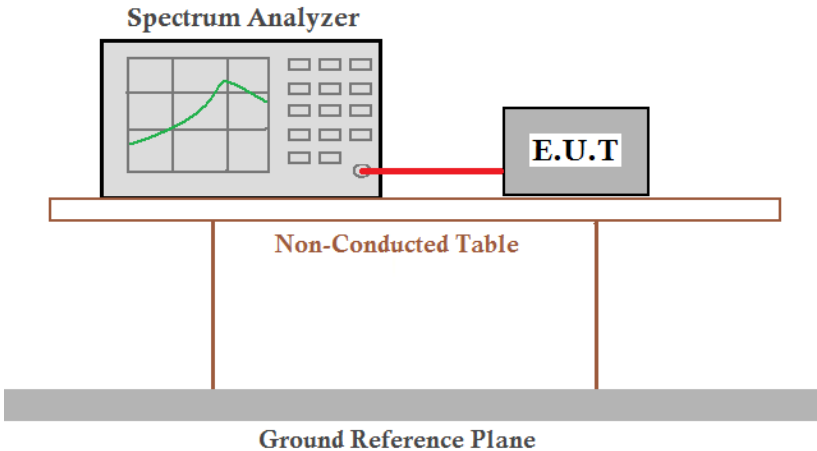


Test mode:	802.11n(HT40)	Test channel:	Middle
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6.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	KDB558074 D01 v03r02
Test Setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>
Instruments Used:	Refer to section 5.10 for details
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:	≥ 500 kHz
Test Results:	Pass

**Measurement Data**

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	10.193	≥500	Pass
Middle	10.193	≥500	Pass
Highest	10.193	≥500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.346	≥500	Pass
Middle	16.298	≥500	Pass
Highest	16.346	≥500	Pass
802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.548	≥500	Pass
Middle	17.596	≥500	Pass
Highest	17.500	≥500	Pass
802.11n(HT40)mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	35.769	≥500	Pass
Middle	36.154	≥500	Pass
Highest	36.250	≥500	Pass



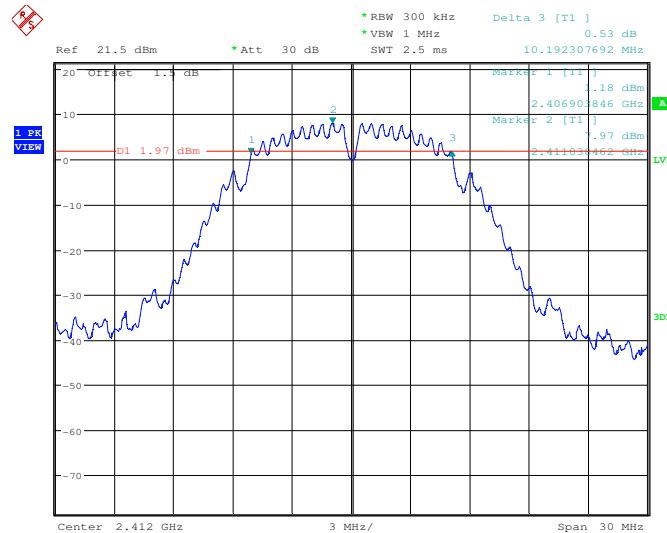
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Report No.: SZEM150500255103

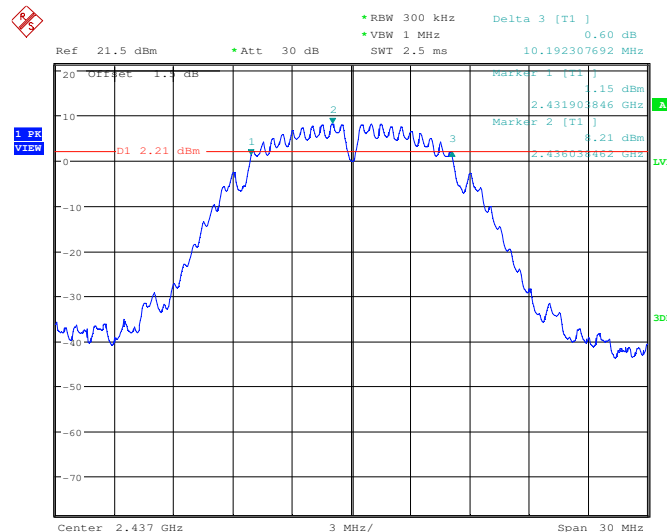
Page: 33 of 127

Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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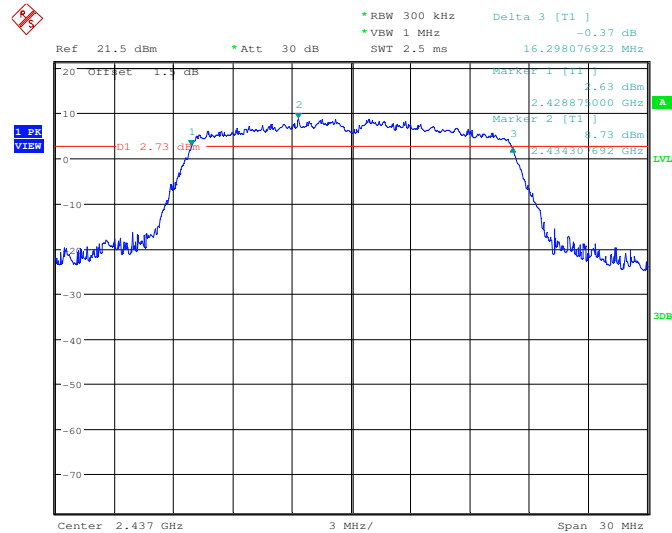


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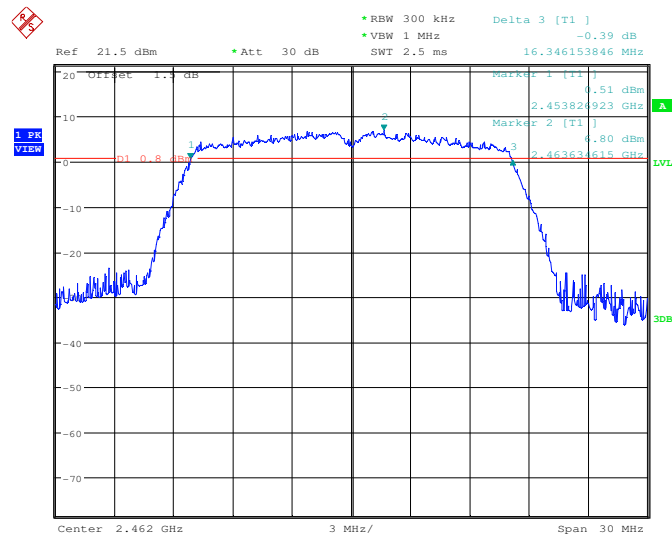
Report No.: SZEM150500255103

Page: 35 of 127

Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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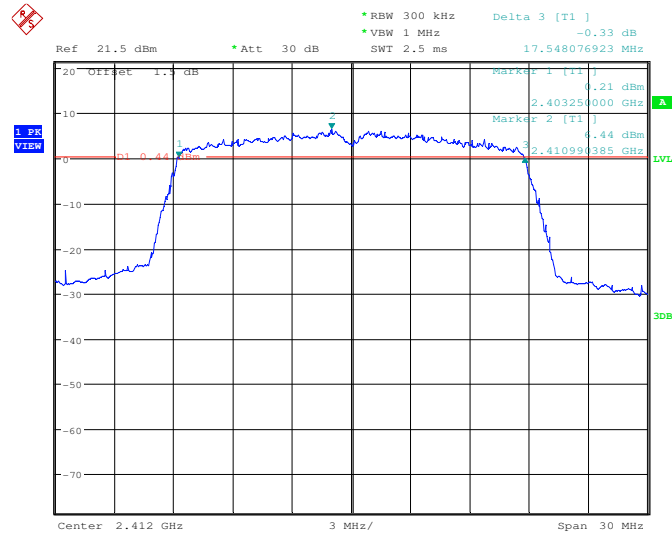


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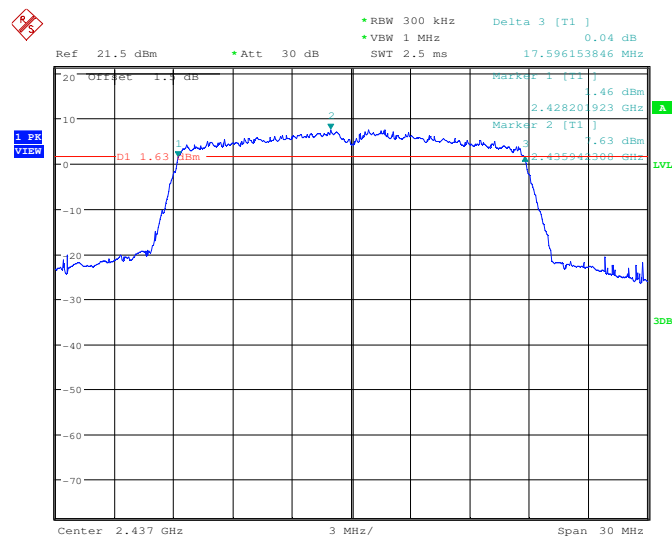
Report No.: SZEM150500255103

Page: 36 of 127

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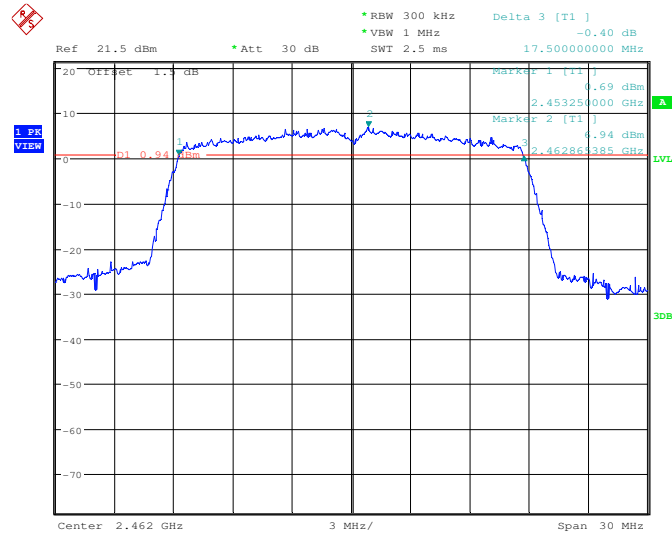


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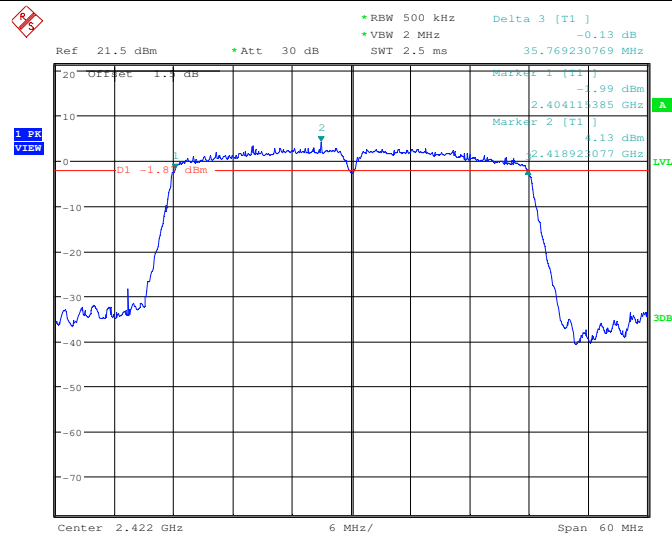
Report No.: SZEM150500255103

Page: 37 of 127

Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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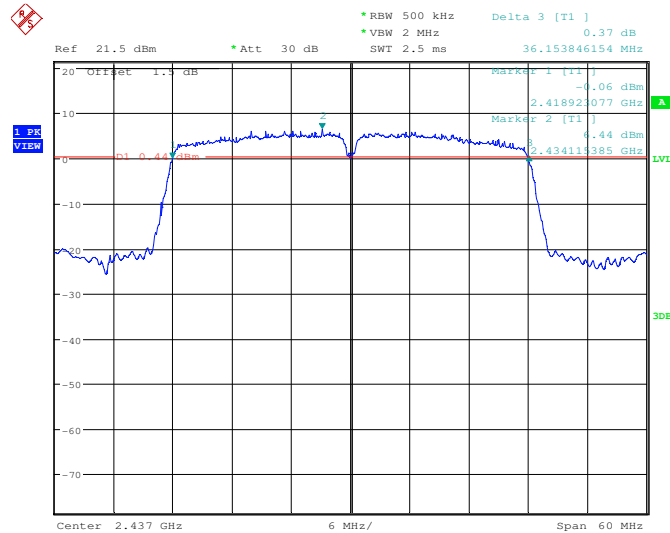


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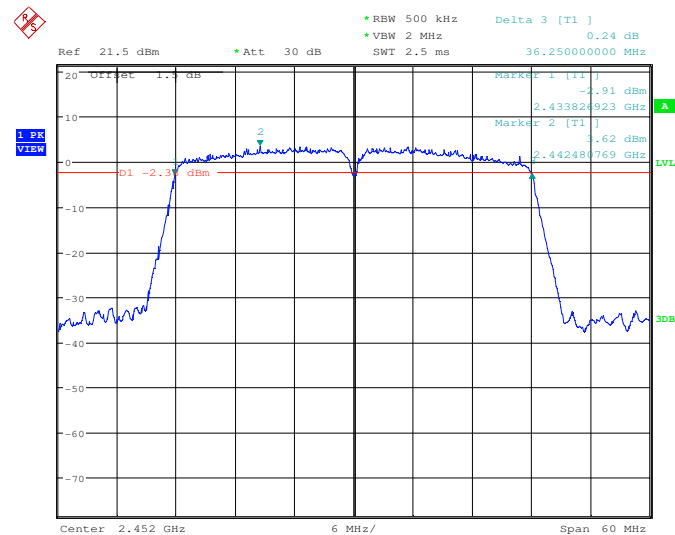
Report No.: SZEM150500255103

Page: 38 of 127

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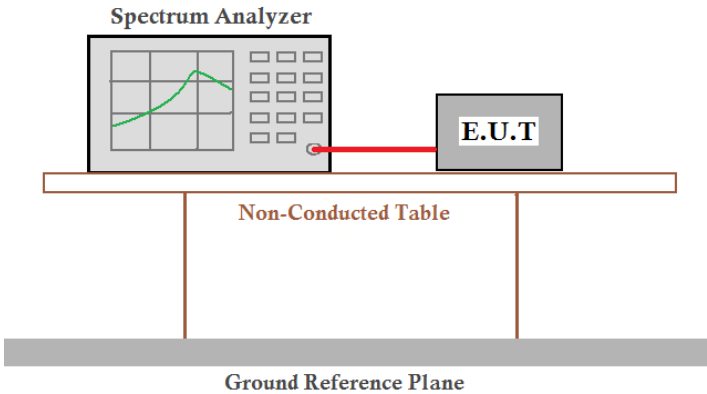


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	KDB558074 D01 v03r02
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 5.10 for details
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:	≤8.00dBm/3kHz
Test Results:	Pass

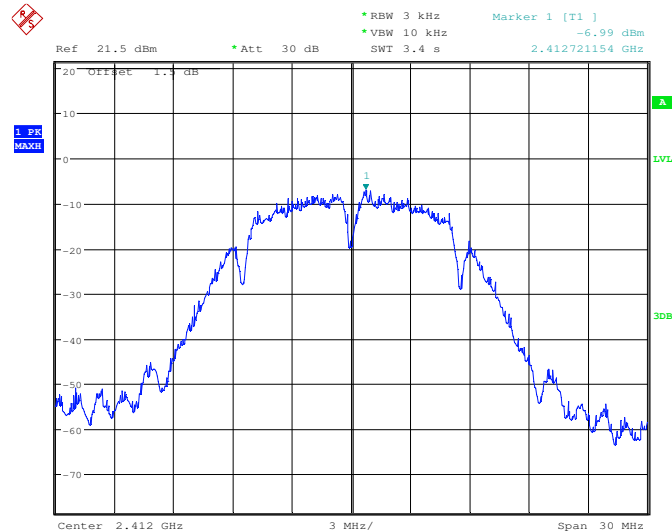
**Measurement Data**

802.11b mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-6.99	≤8.00	Pass
Middle	-4.92	≤8.00	Pass
Highest	-6.45	≤8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-12.18	≤8.00	Pass
Middle	-9.03	≤8.00	Pass
Highest	-10.56	≤8.00	Pass
802.11n(HT20) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-12.20	≤8.00	Pass
Middle	-10.49	≤8.00	Pass
Highest	-10.77	≤8.00	Pass
802.11n(HT40) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-16.66	≤8.00	Pass
Middle	-12.89	≤8.00	Pass
Highest	-16.25	≤8.00	Pass

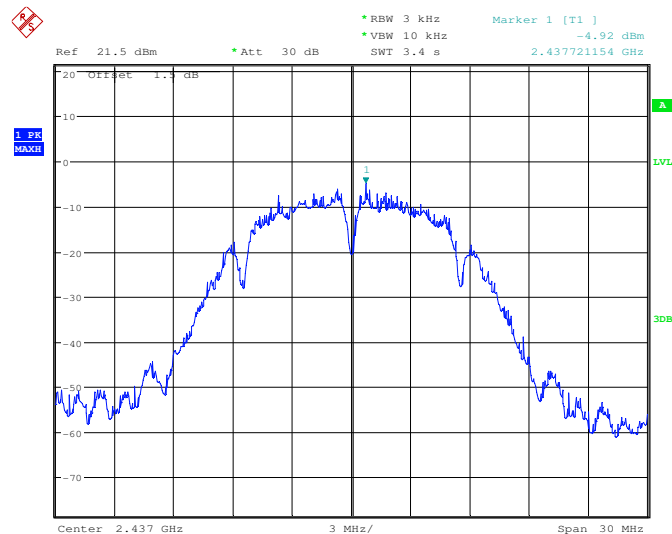


Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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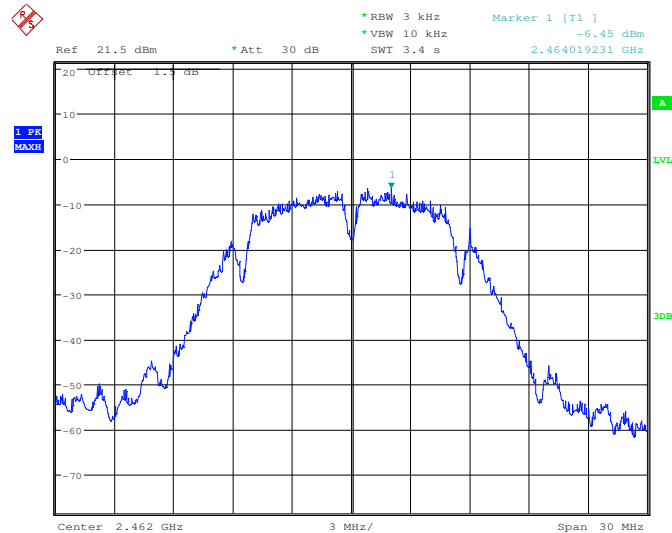


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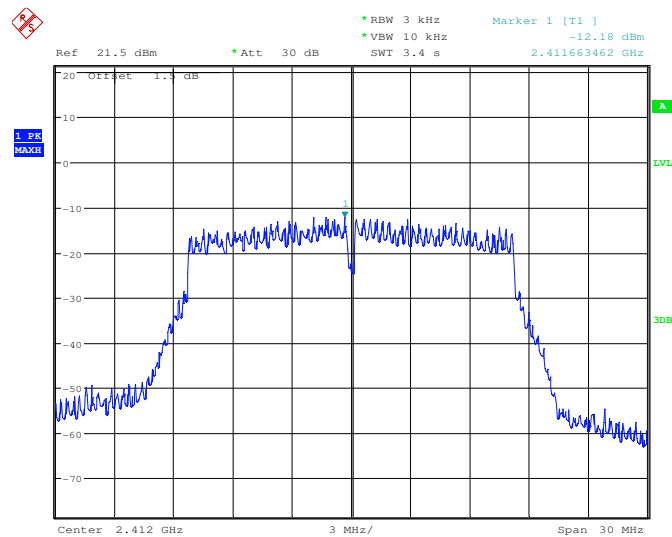
Report No.: SZEM150500255103

Page: 42 of 127

Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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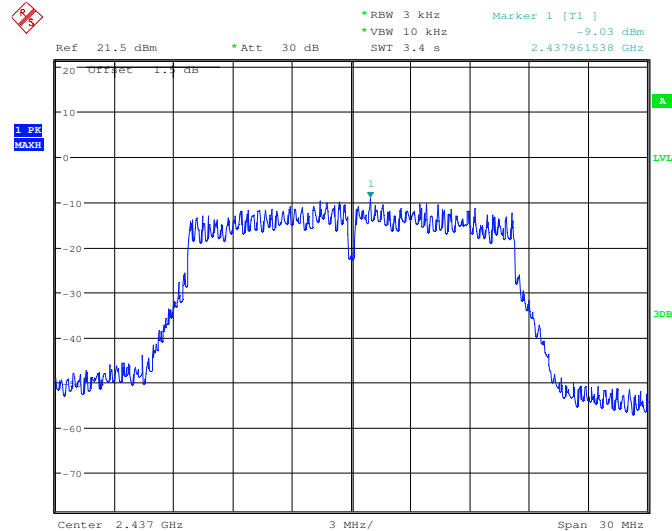


SGS-CSTC Standards Technical Services Ltd.

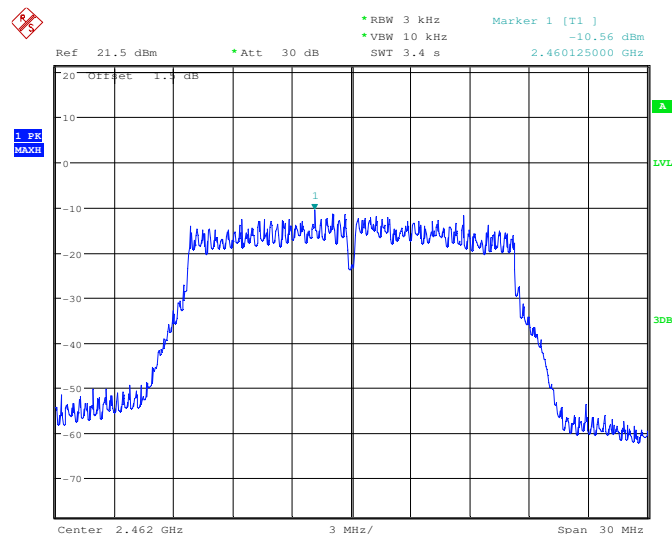
Report No.: SZEM150500255103

Page: 43 of 127

Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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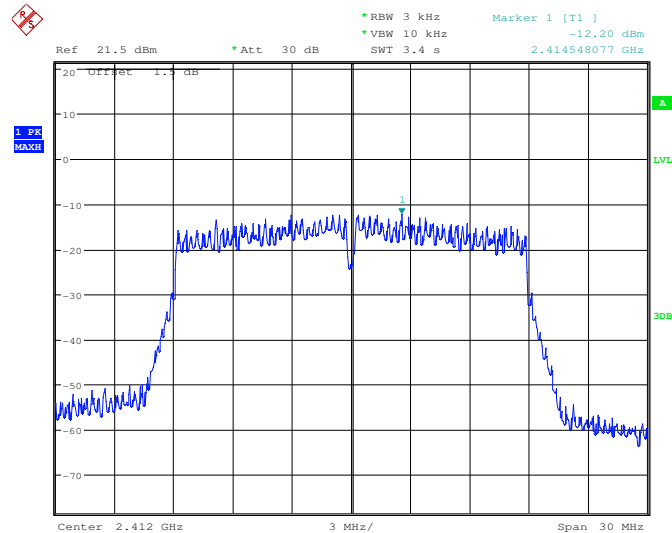


SGS-CSTC Standards Technical Services Ltd.

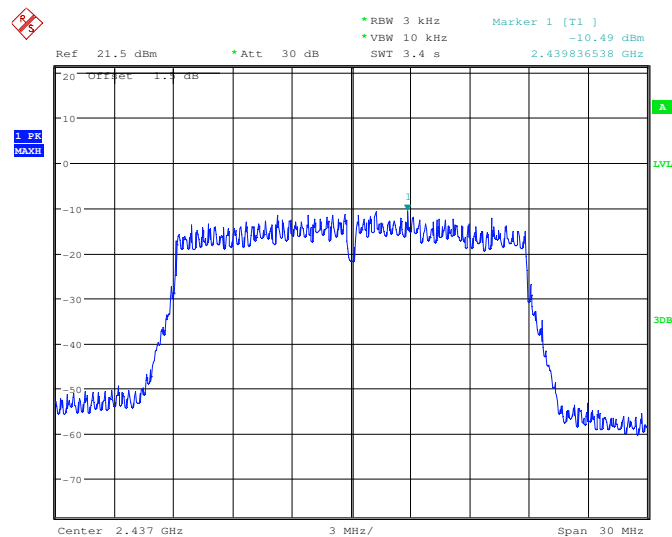
Report No.: SZEM150500255103

Page: 44 of 127

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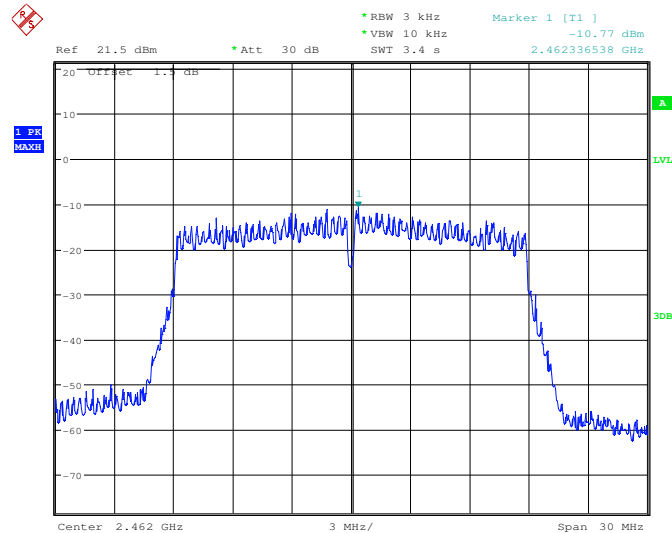


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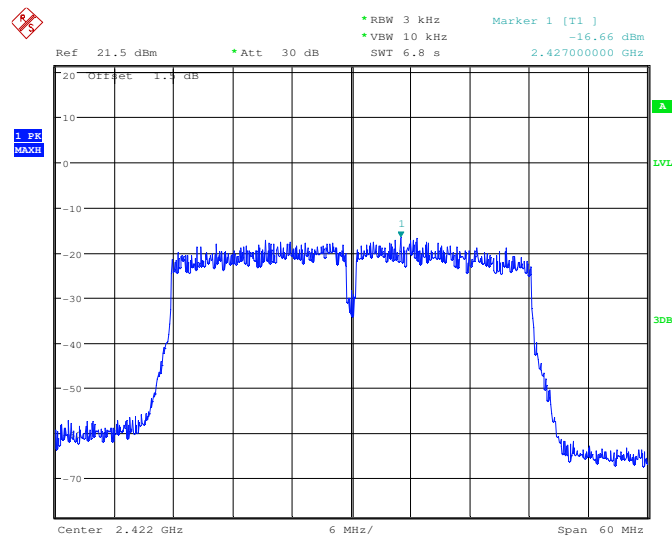
Report No.: SZEM150500255103

Page: 45 of 127

Test mode:	802.11n(HT20)	Test channel:	Highest
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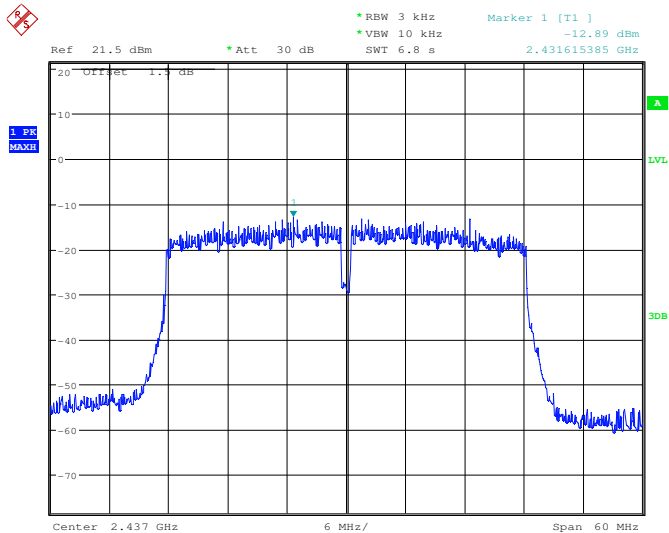
Test mode:	802.11n(HT40)	Test channel:	Lowest
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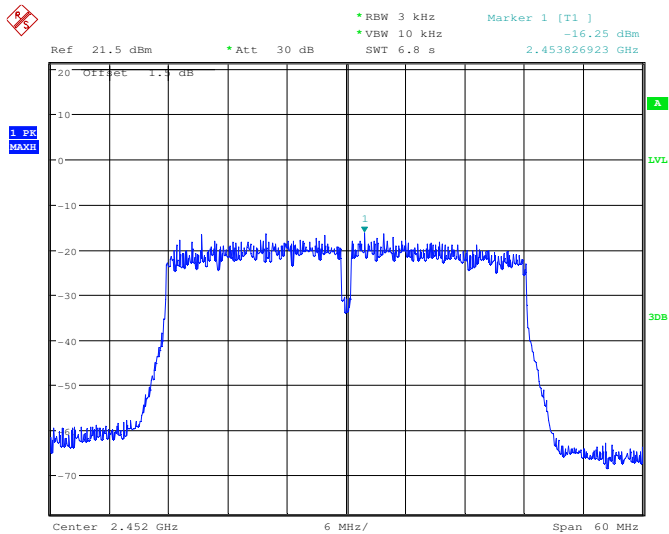
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Test mode:	802.11n(HT40)	Test channel:	Middle
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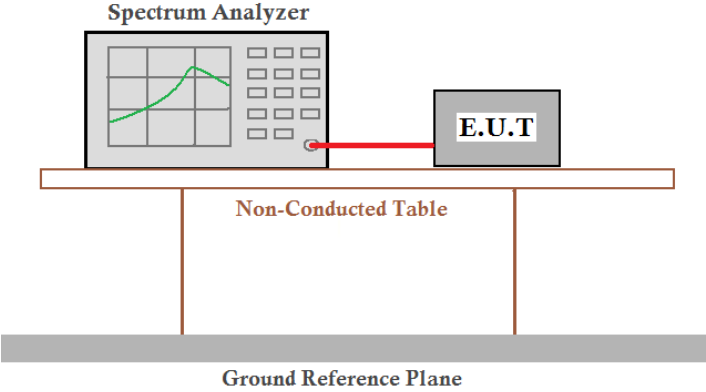


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	KDB558074 D01 v03r02
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
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



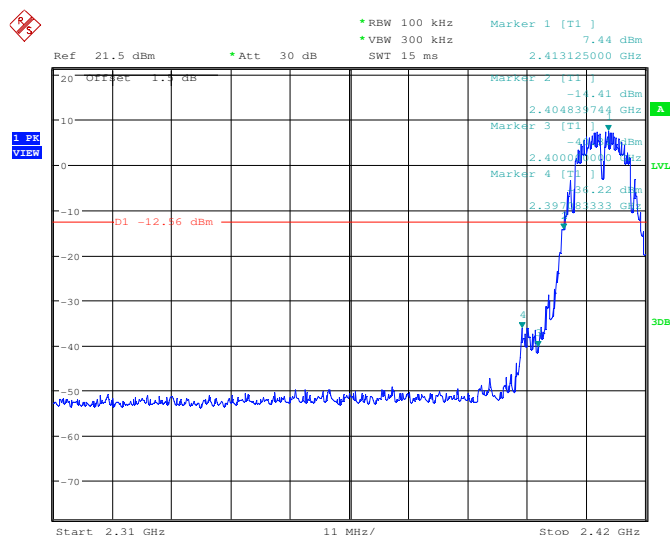
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Report No.: SZEM150500255103

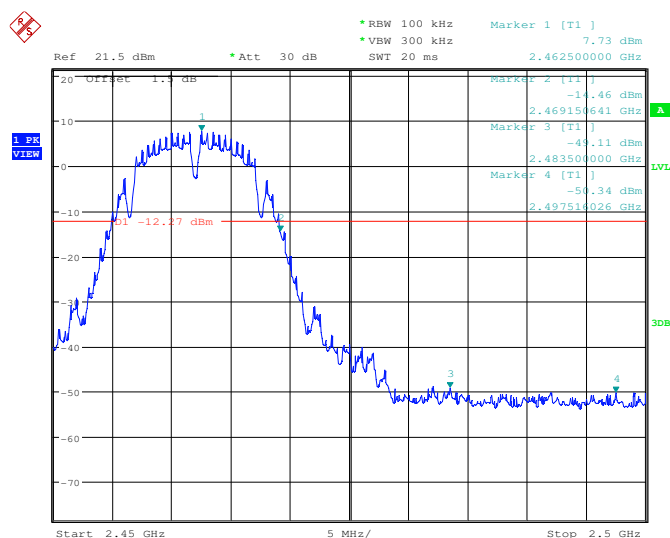
Page: 48 of 127

Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Highest
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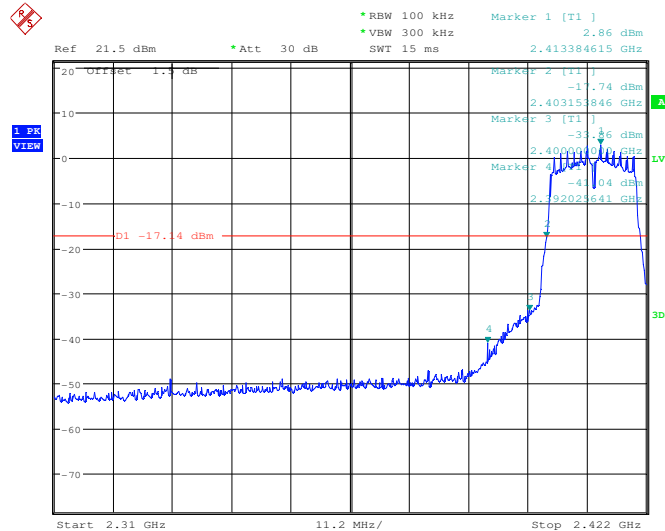


SGS-CSTC Standards Technical Services Ltd.

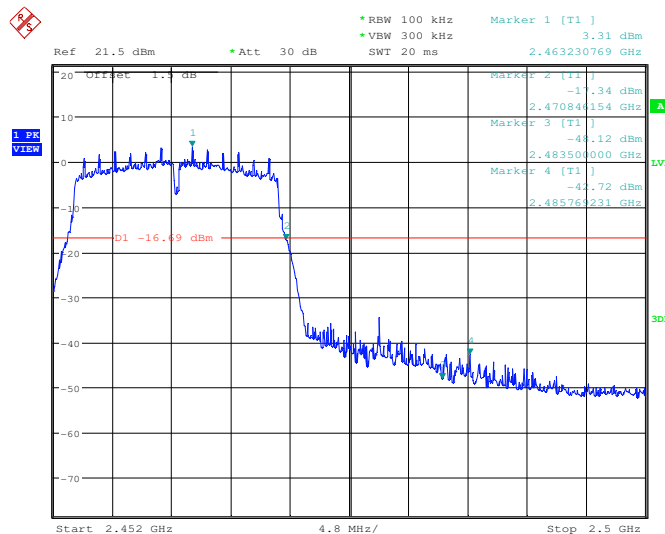
Report No.: SZEM150500255103

Page: 49 of 127

Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Highest
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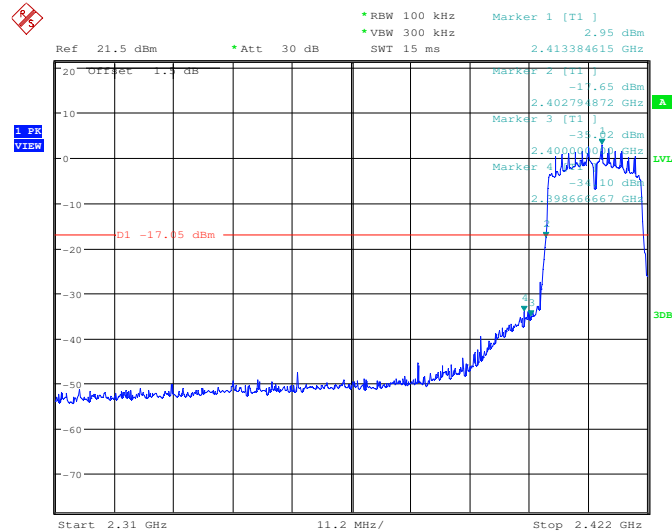


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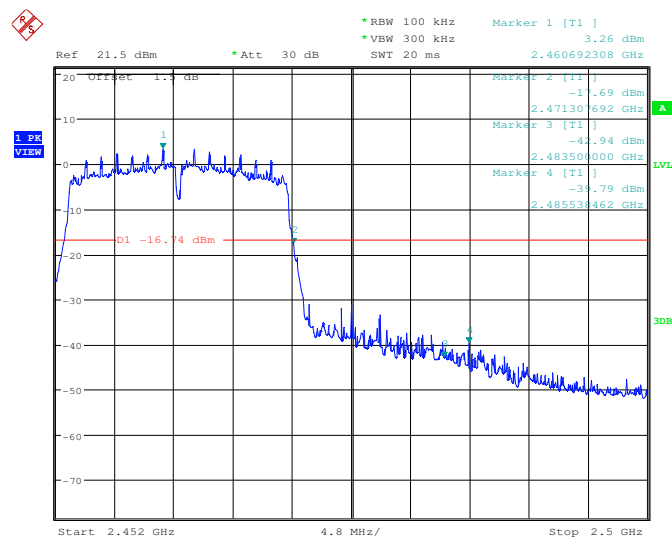
Report No.: SZEM150500255103

Page: 50 of 127

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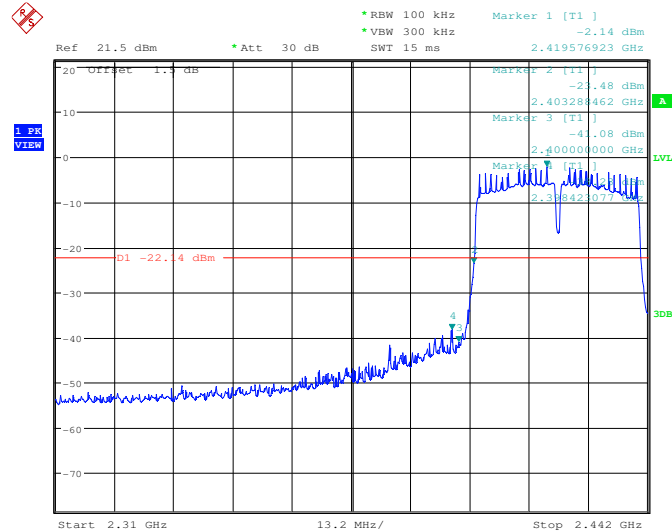


SGS-CSTC Standards Technical Services Ltd.

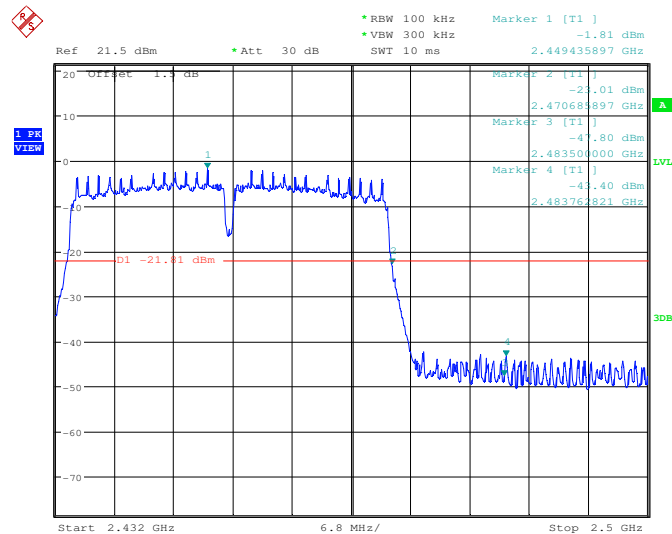
Report No.: SZEM150500255103

Page: 51 of 127

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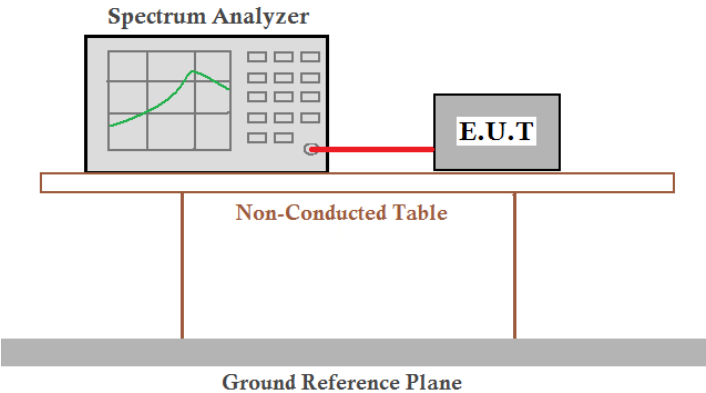


Test mode:	802.11n(HT40)	Test channel:	Highest
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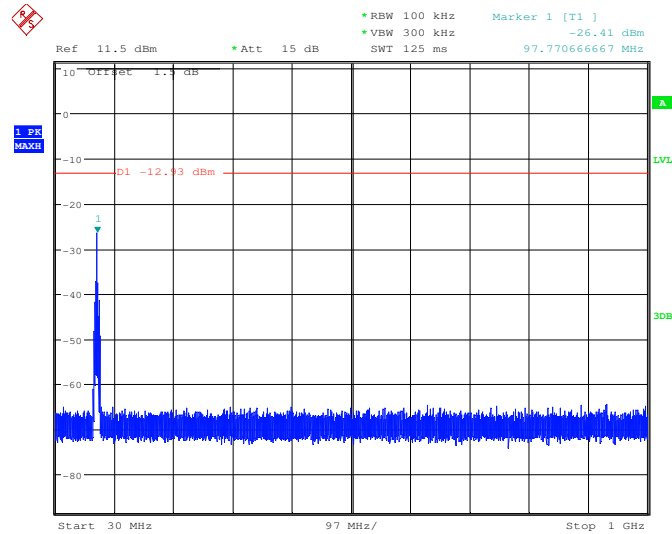
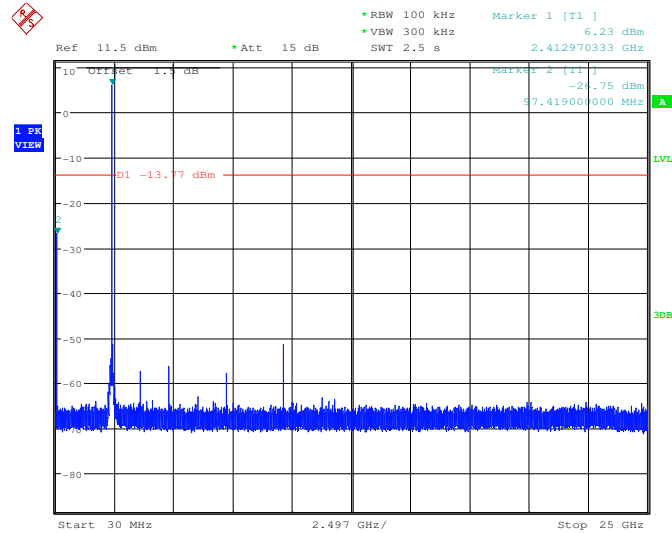
6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	KDB558074 D01 v03r02
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
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



Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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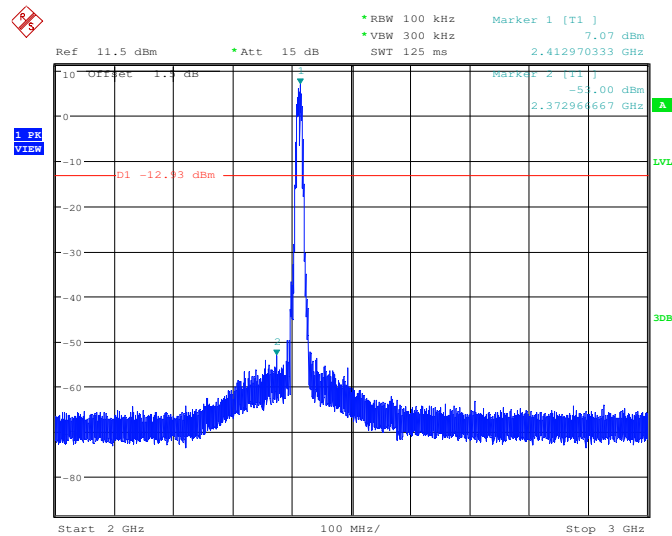
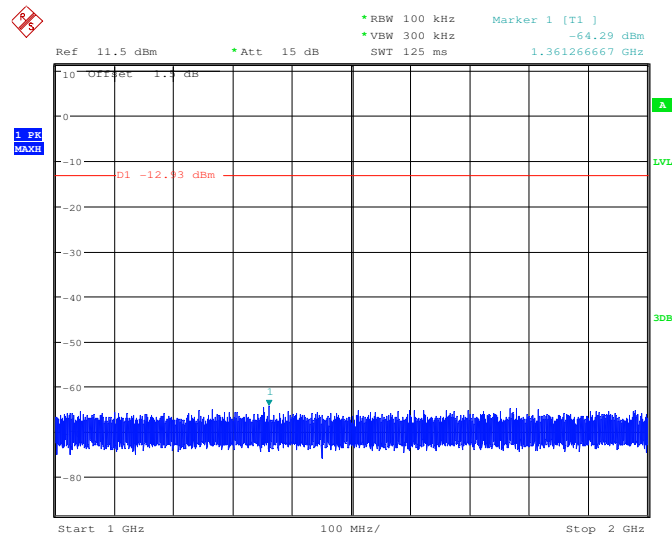
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Report No.: SZEM150500255103

Page: 54 of 127



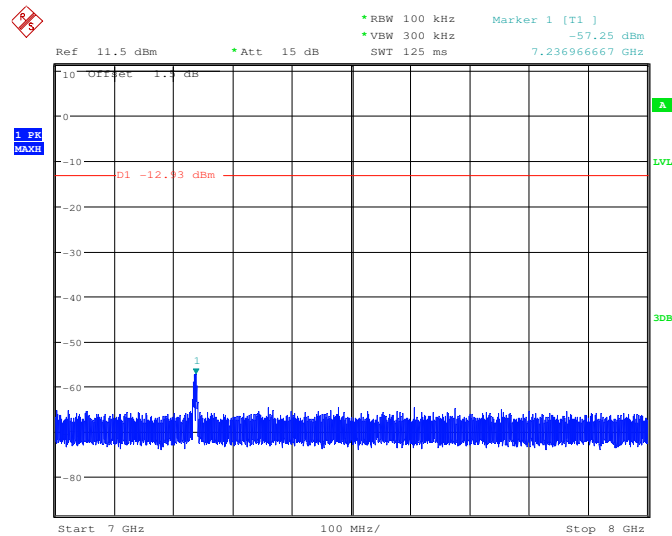
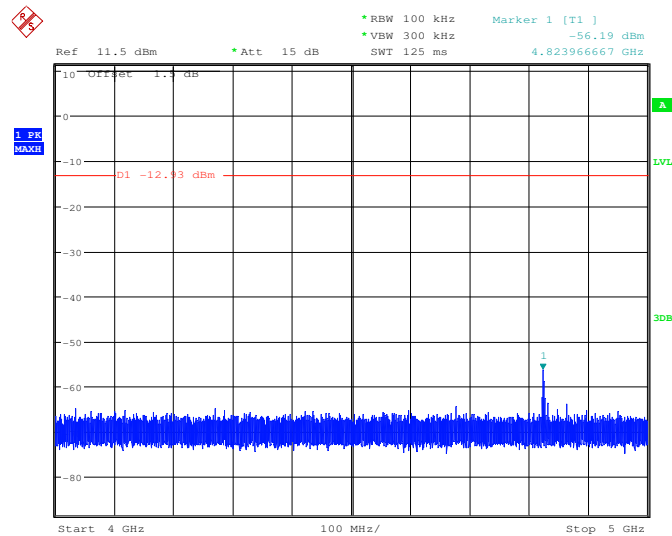
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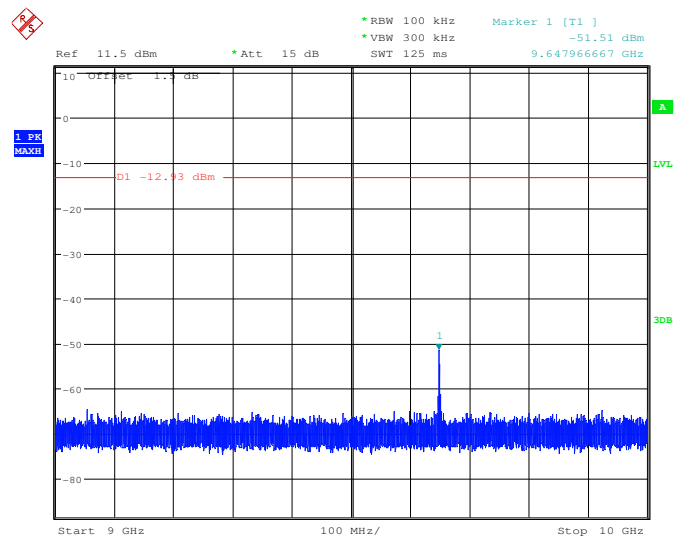
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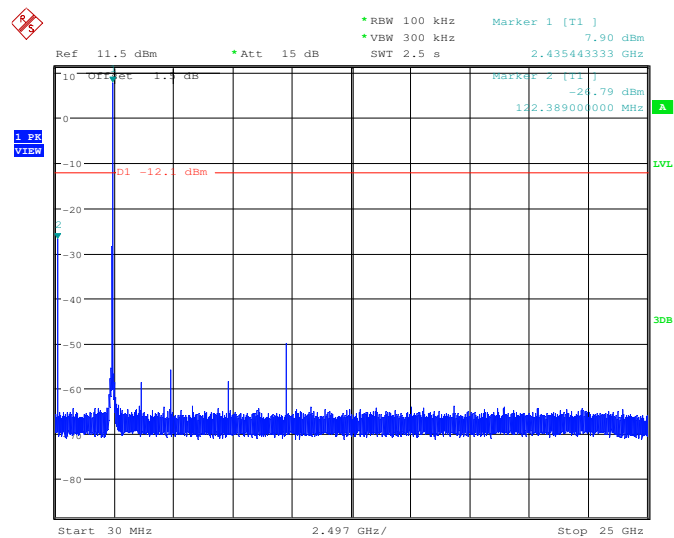
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Test mode:	802.11b	Test channel:	Middle
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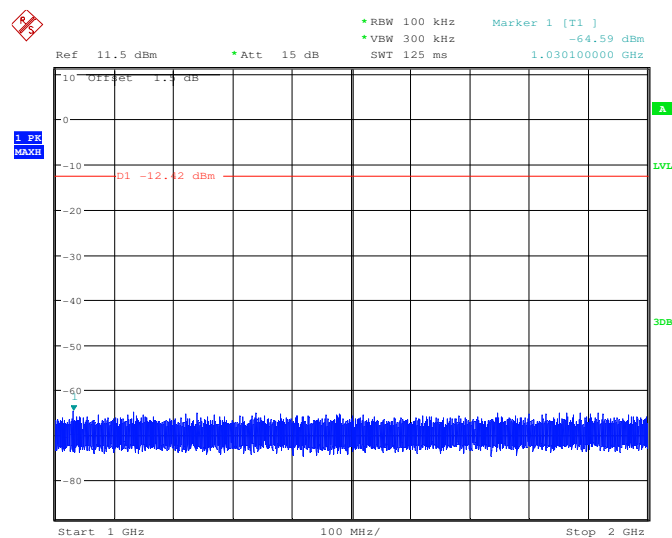
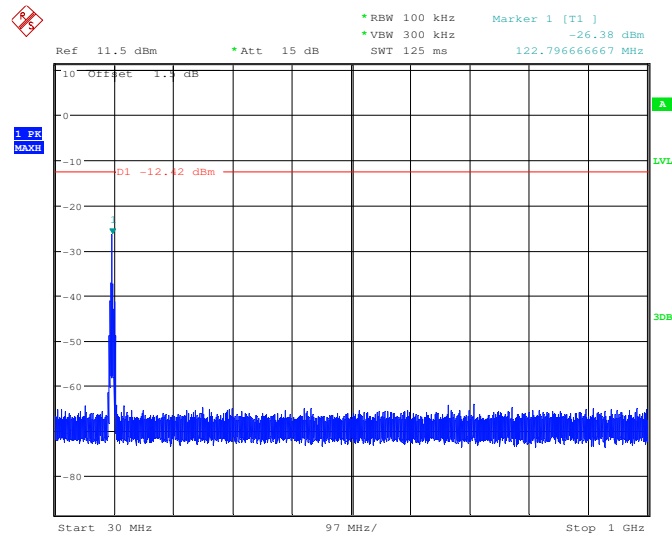
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Report No.: SZEM150500255103

Page: 57 of 127



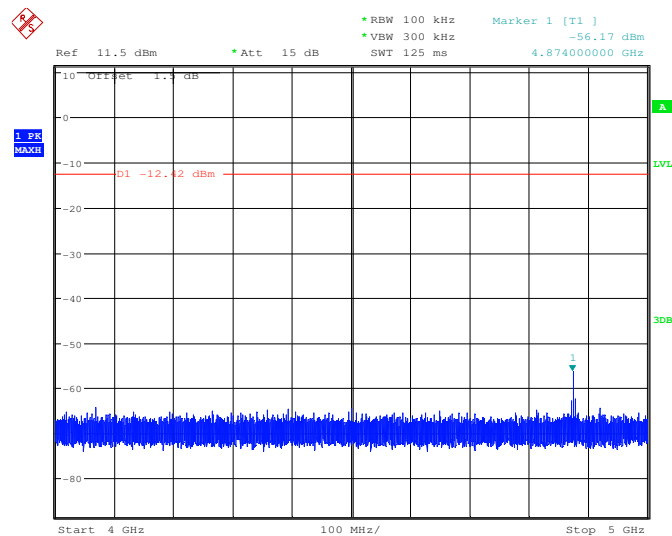
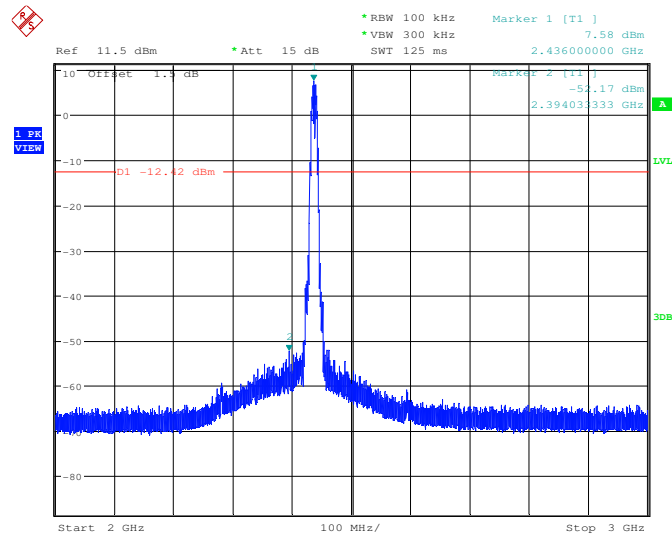
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Report No.: SZEM150500255103

Page: 58 of 127



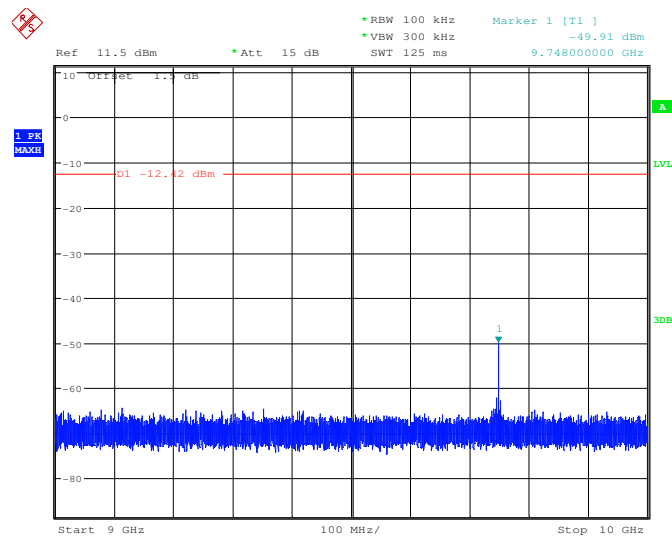
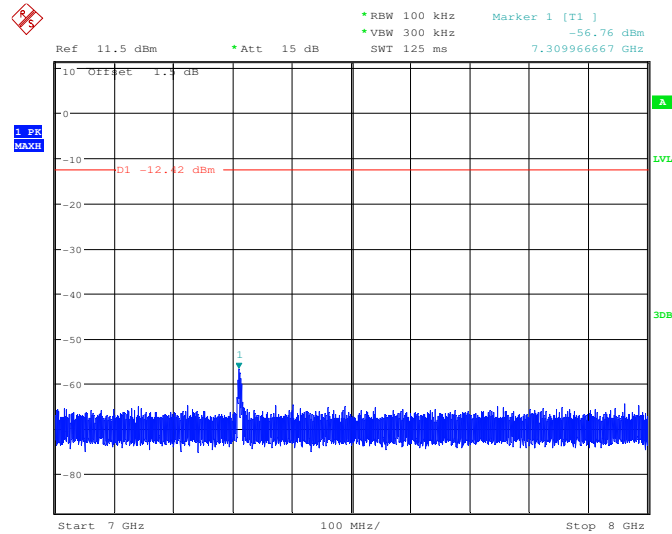
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Report No.: SZEM150500255103

Page: 59 of 127



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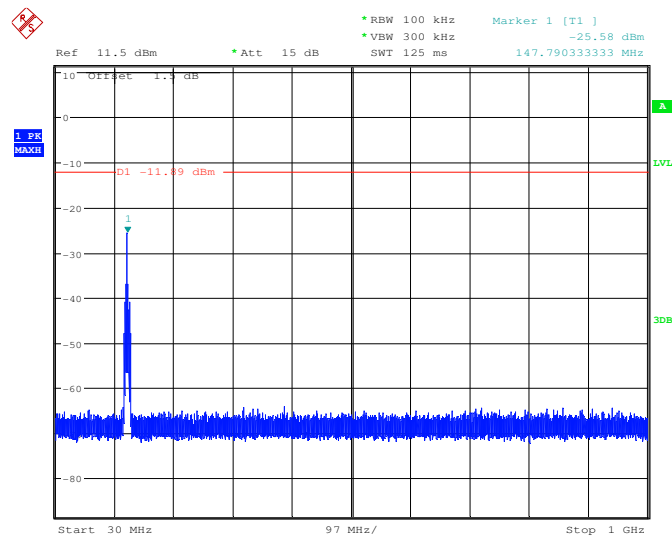
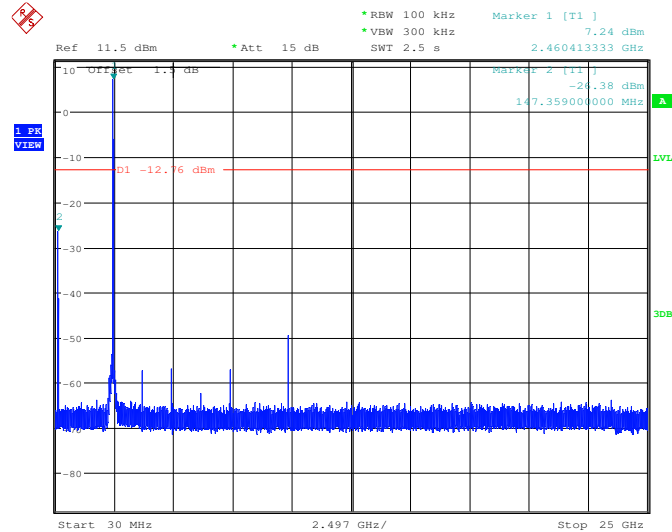


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Report No.: SZEM150500255103

Page: 60 of 127

Test mode:	802.11b	Test channel:	Highest
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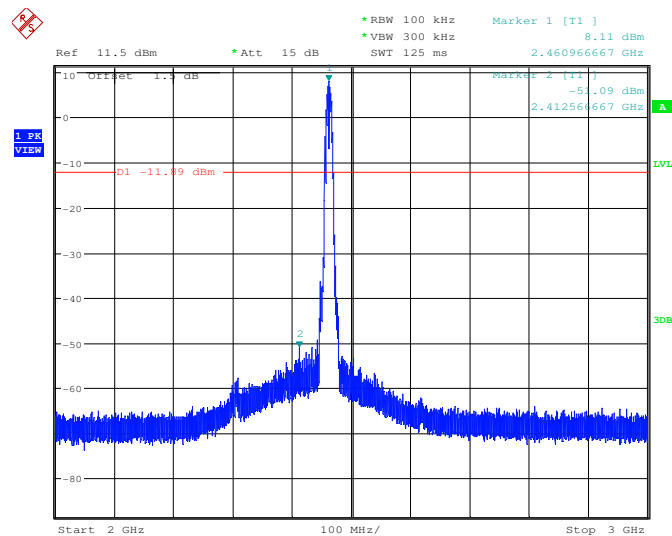
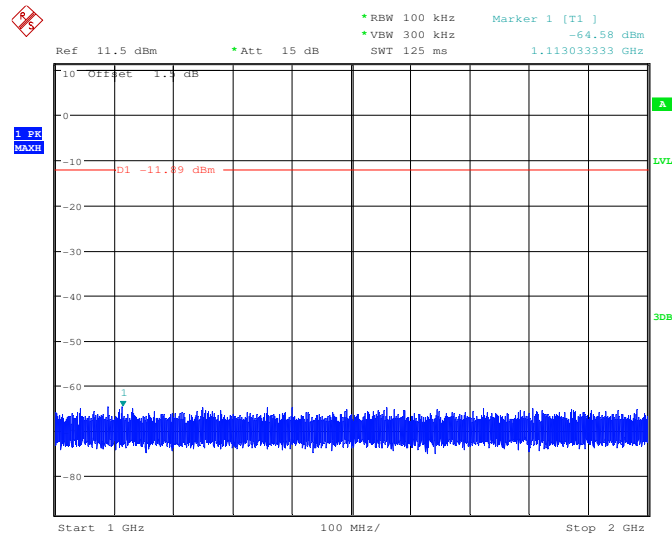
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Report No.: SZEM150500255103

Page: 61 of 127



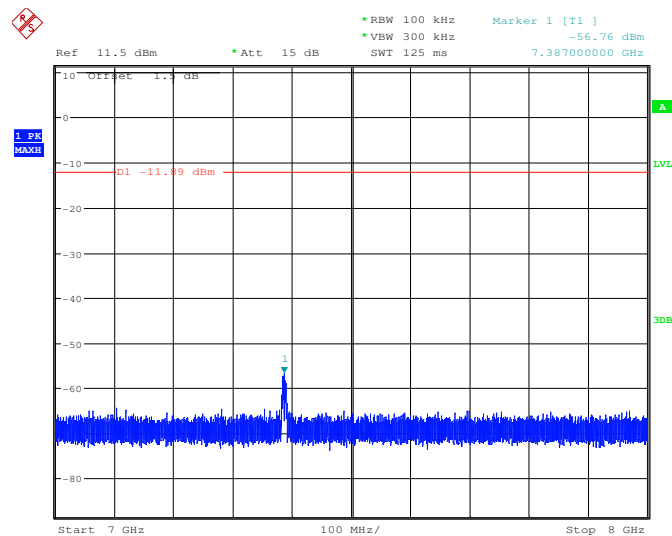
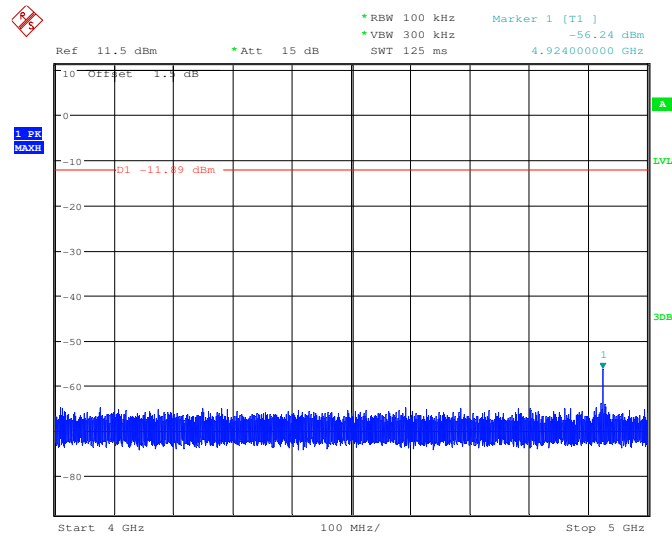
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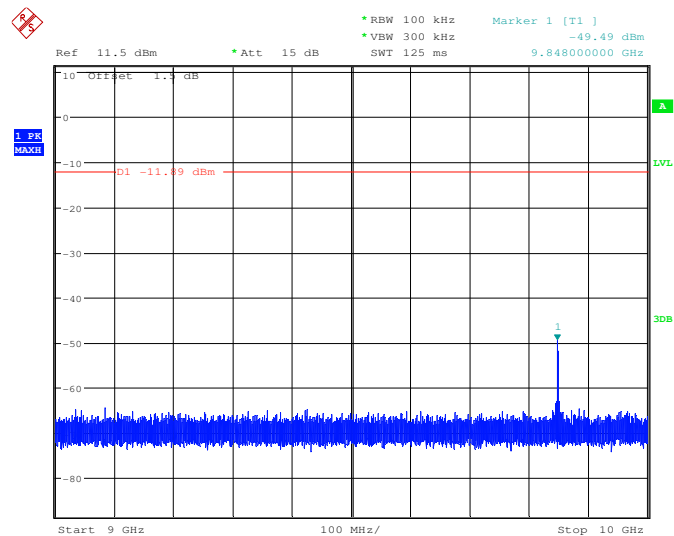
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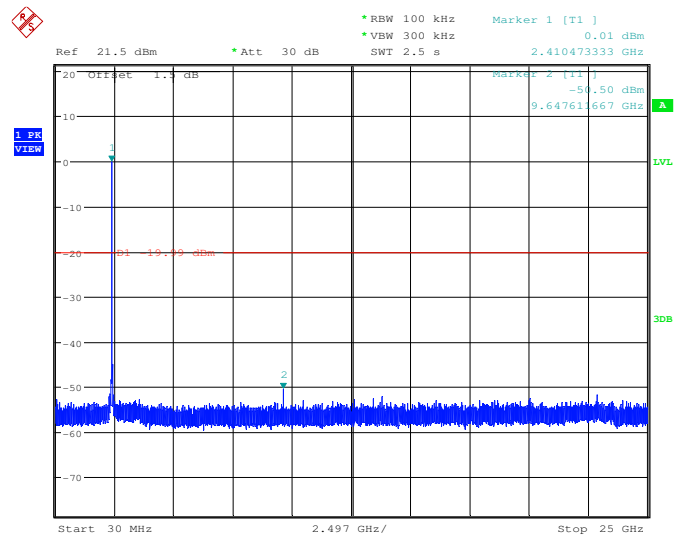
Page: 62 of 127



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Test mode:	802.11g	Test channel:	Lowest
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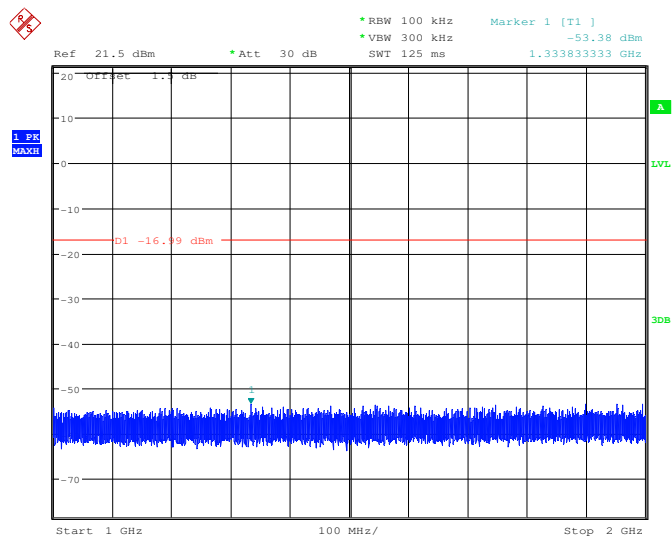
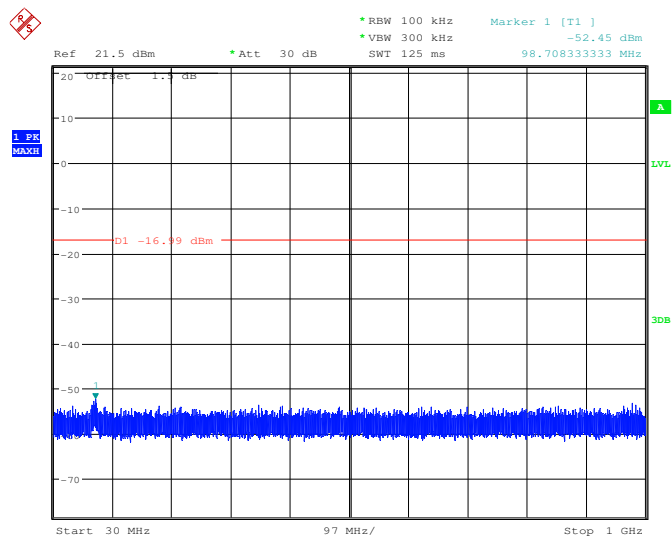
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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 64 of 127



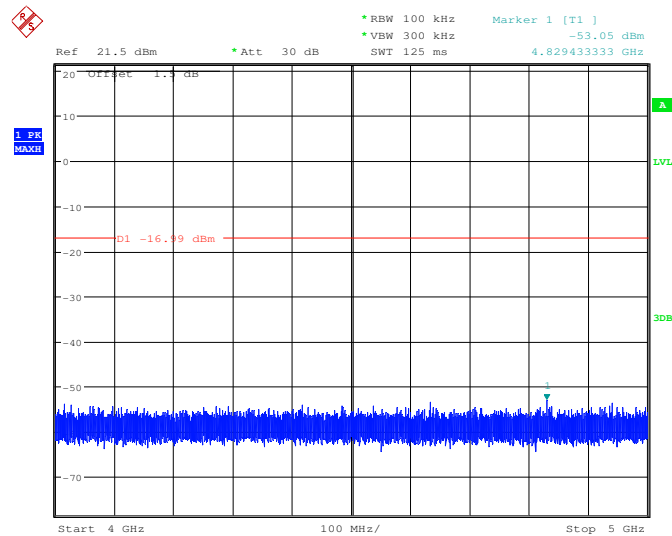
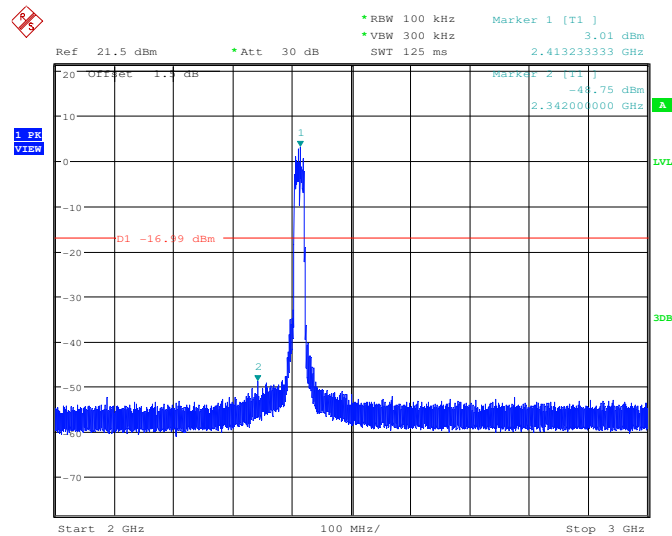
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Report No.: SZEM150500255103

Page: 65 of 127



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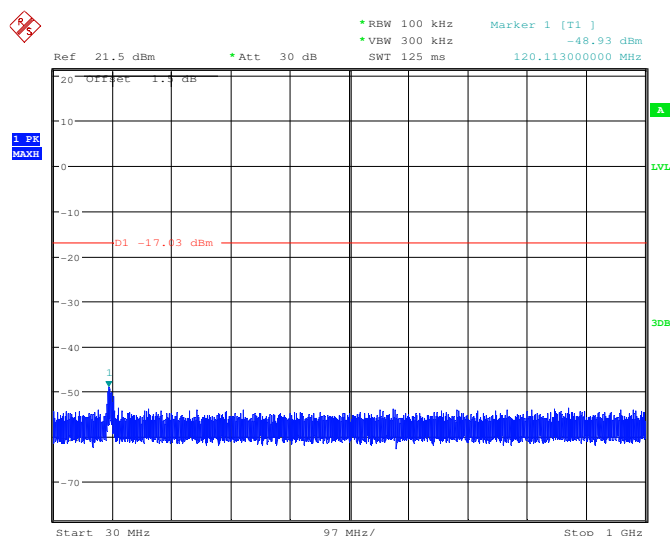
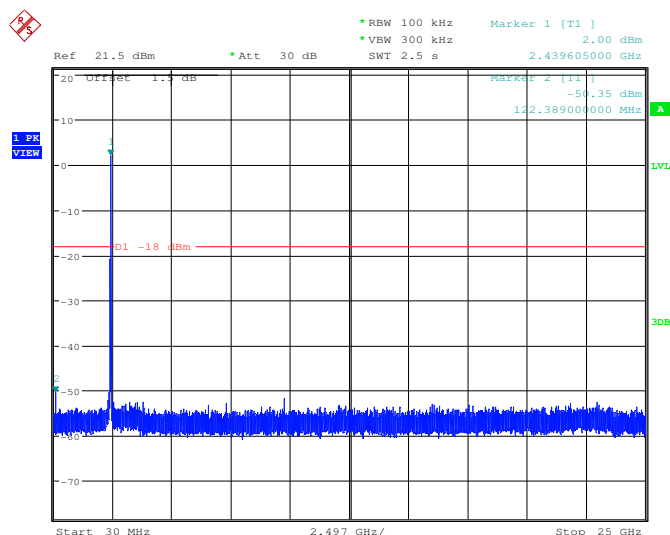


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 67 of 127

Test mode:	802.11g	Test channel:	Middle
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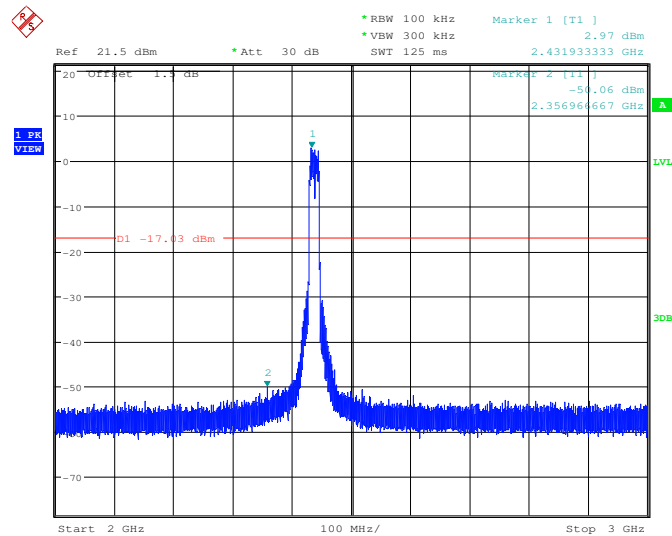
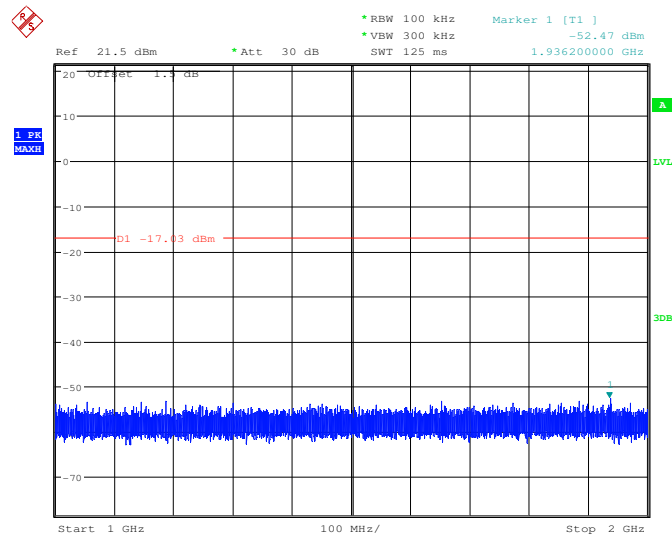
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Report No.: SZEM150500255103

Page: 68 of 127



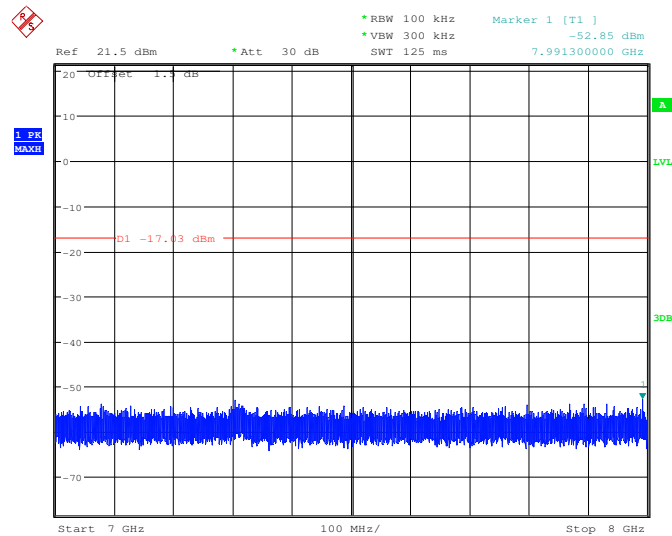
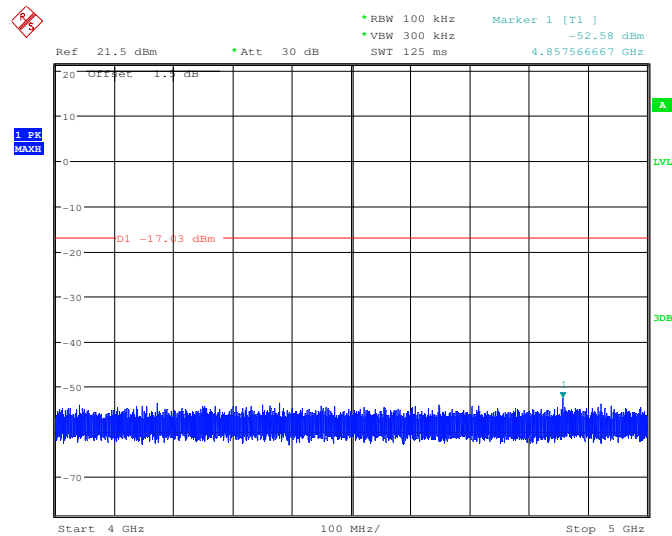
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Report No.: SZEM150500255103

Page: 69 of 127



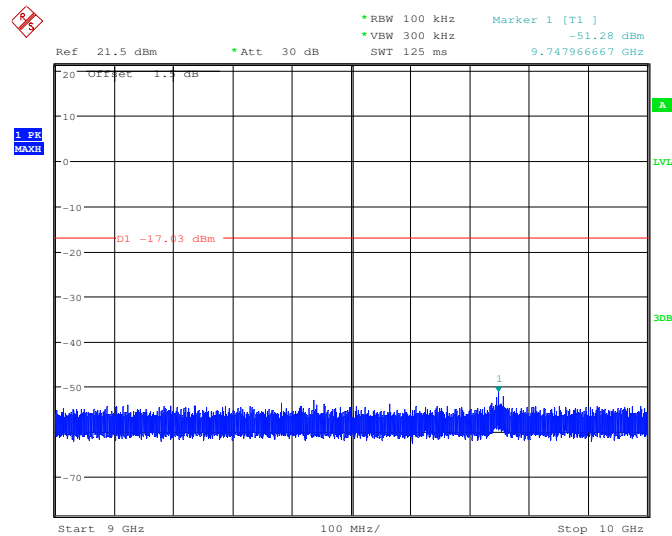
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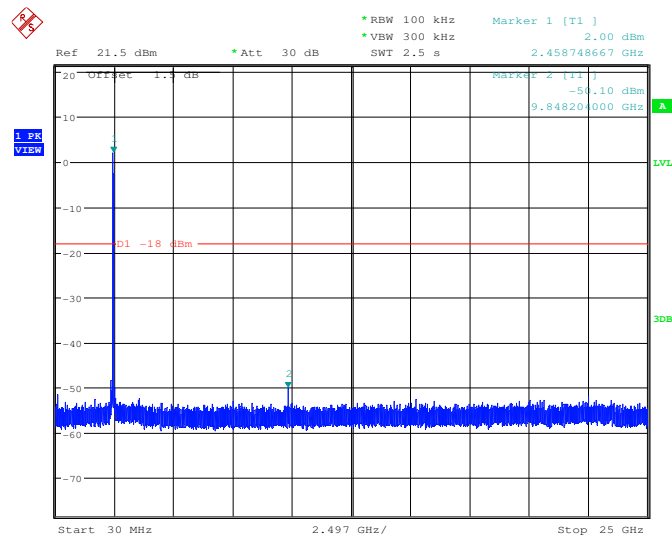
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 70 of 127



Test mode:	802.11g	Test channel:	Highest
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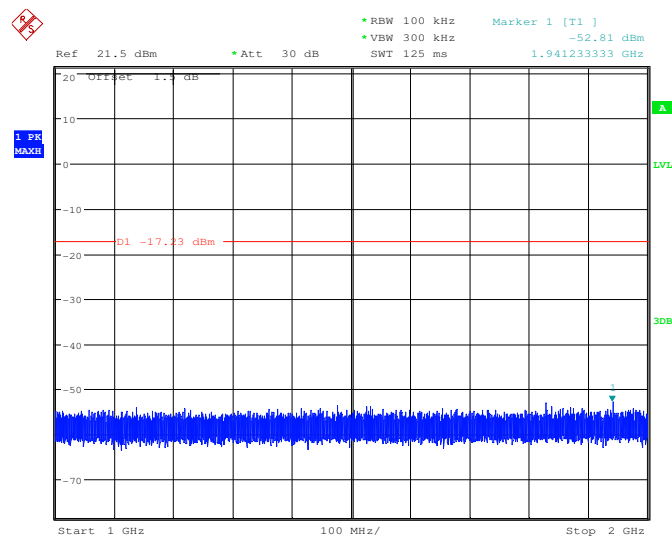
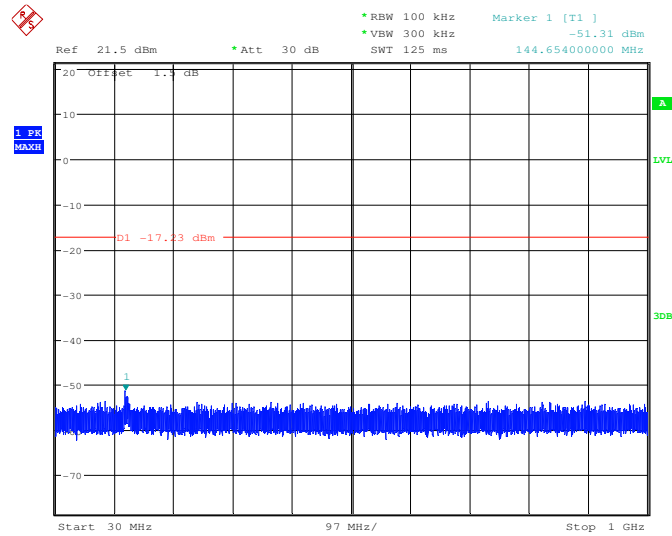
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Report No.: SZEM150500255103

Page: 71 of 127



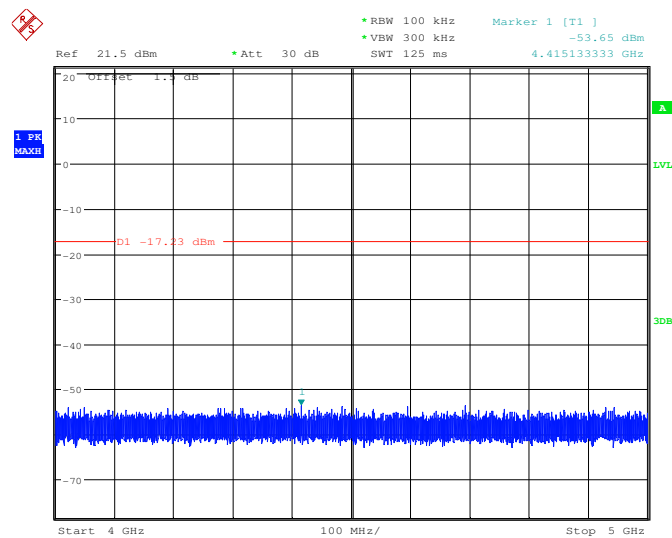
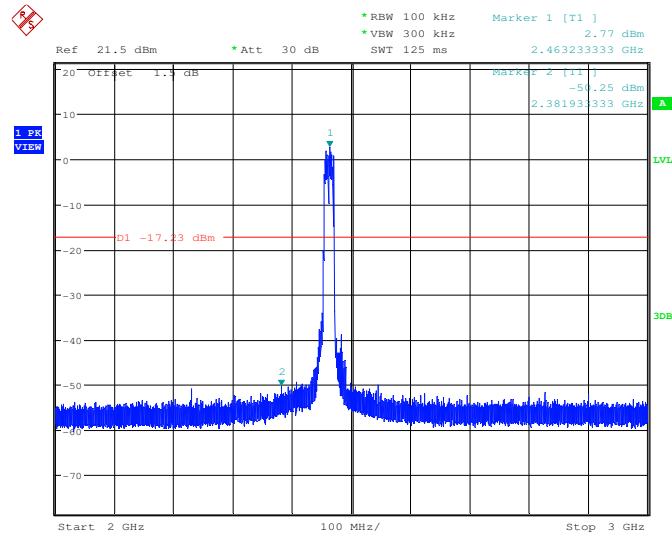
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Report No.: SZEM150500255103

Page: 72 of 127



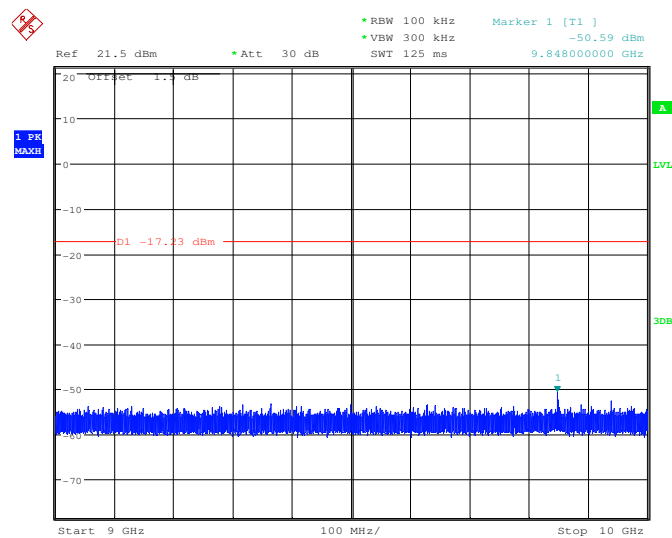
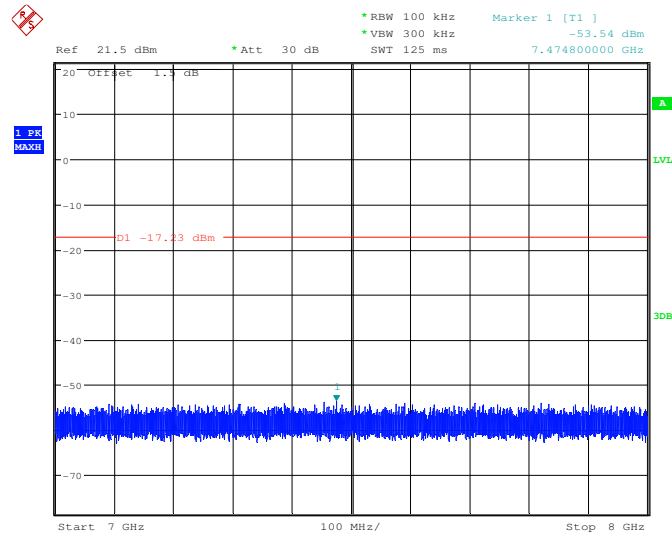
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Page: 73 of 127



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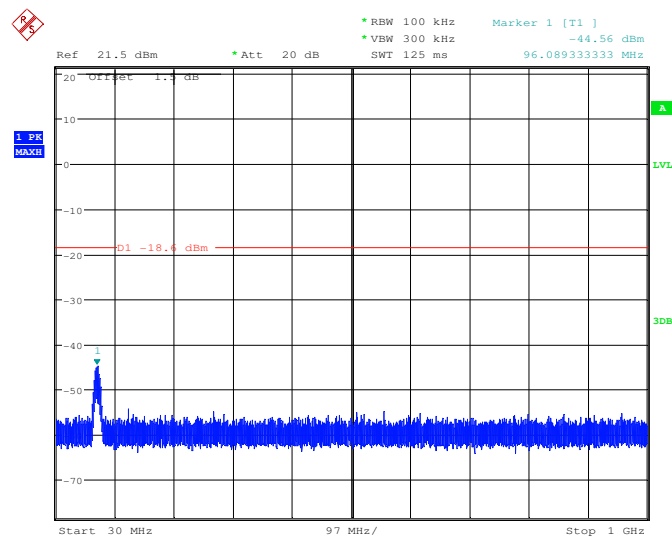
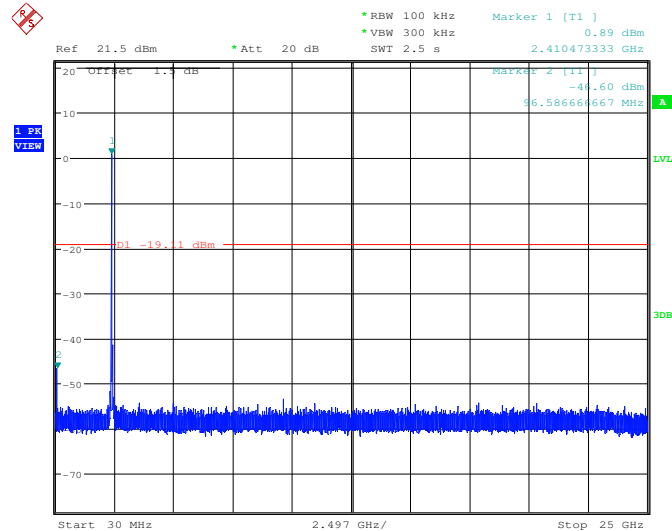


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Report No.: SZEM150500255103

Page: 74 of 127

Test mode:	802.11n(HT20)	Test channel:	Lowest
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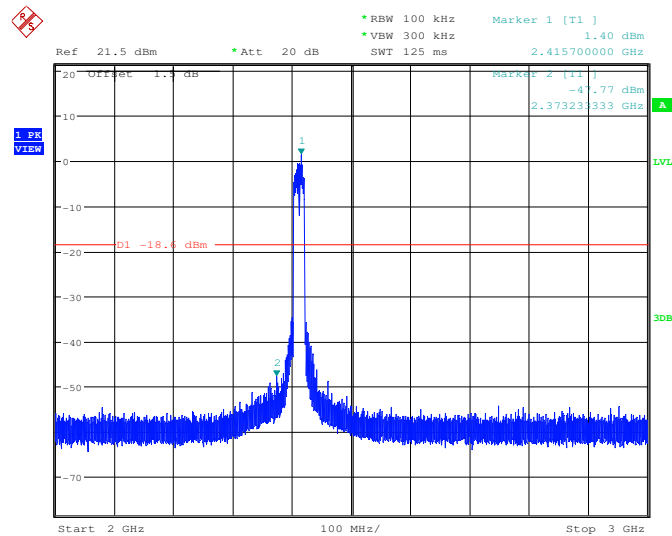
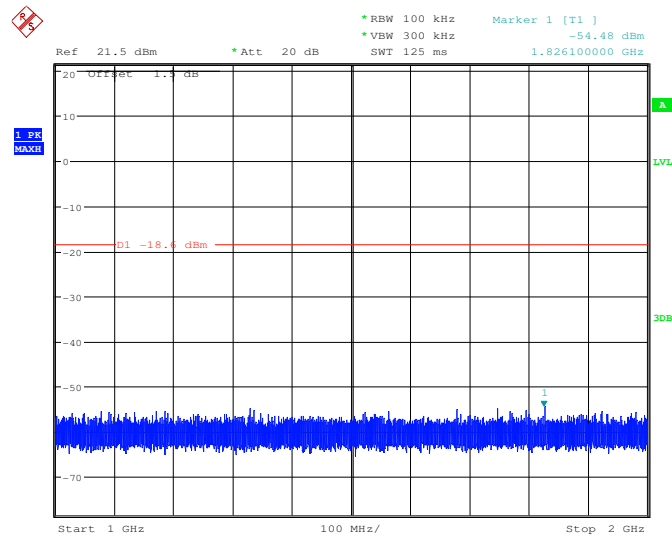
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Report No.: SZEM150500255103

Page: 75 of 127



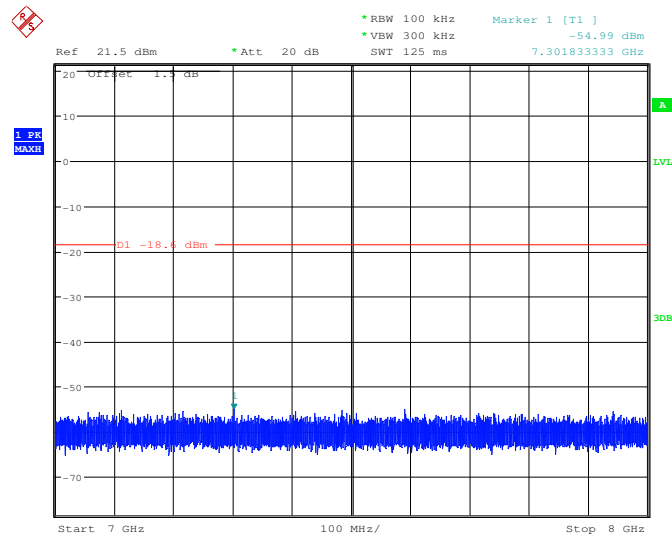
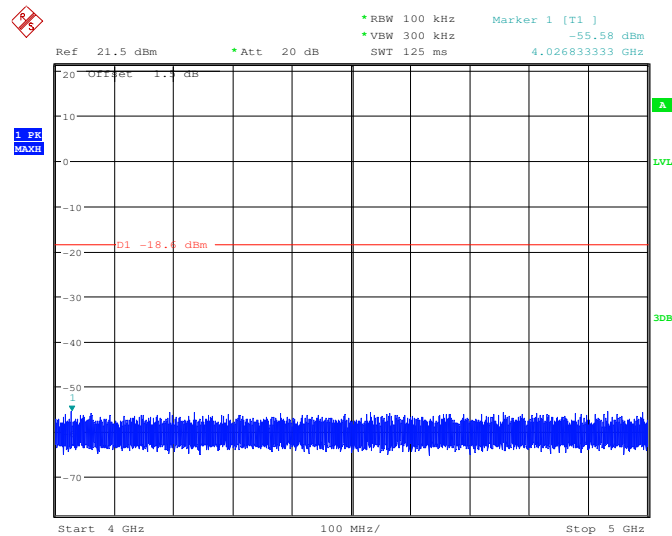
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Report No.: SZEM150500255103

Page: 76 of 127



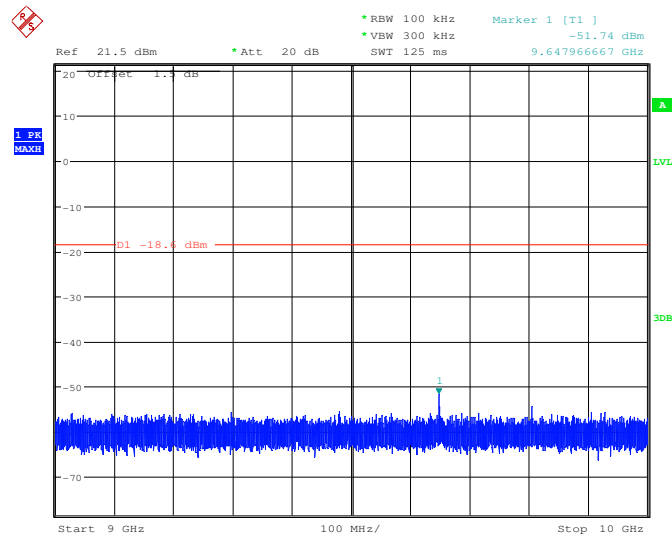
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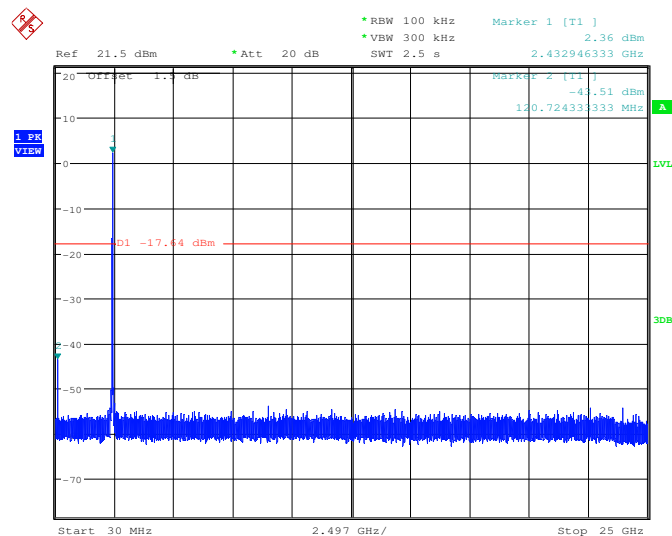
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Report No.: SZEM150500255103

Page: 77 of 127



Test mode:	802.11n(HT20)	Test channel:	Middle
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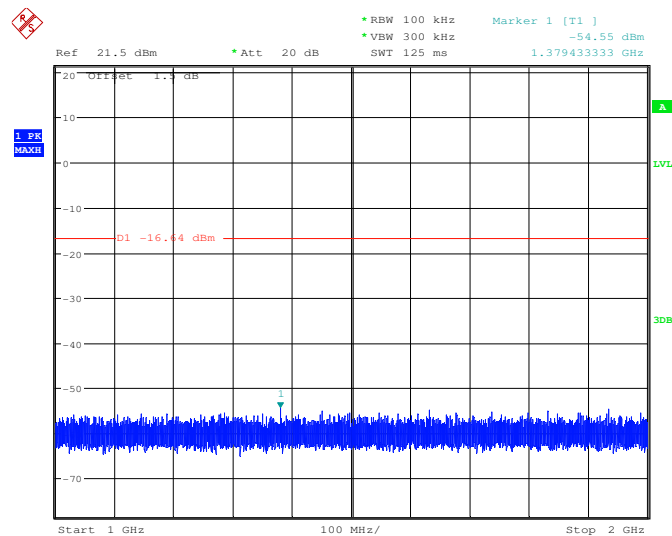
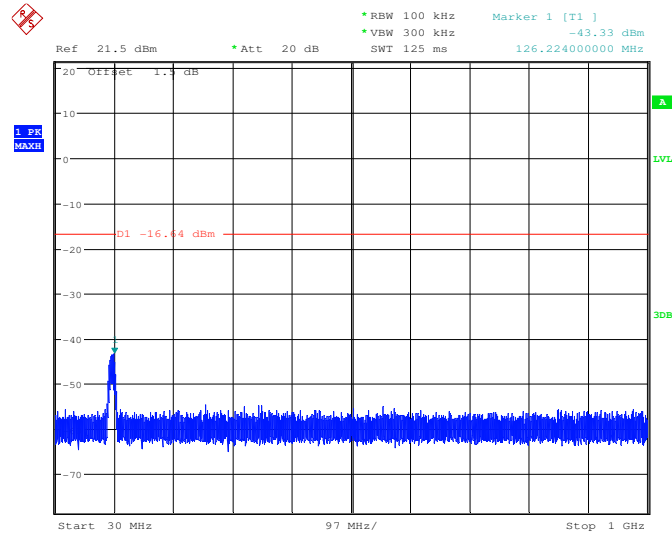
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Report No.: SZEM150500255103

Page: 78 of 127



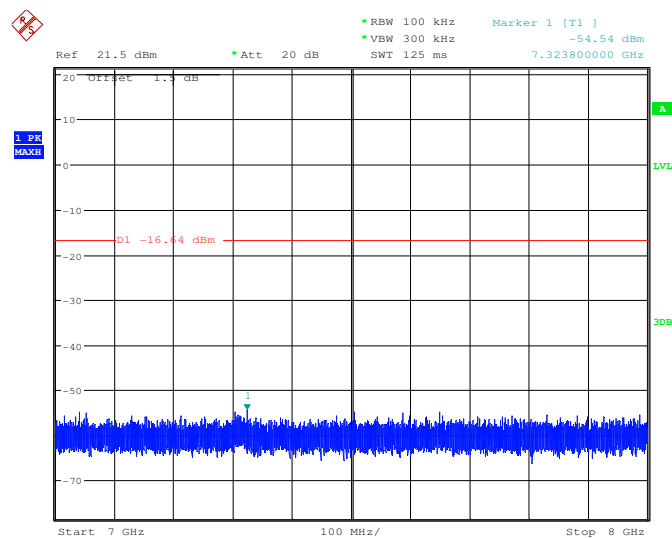
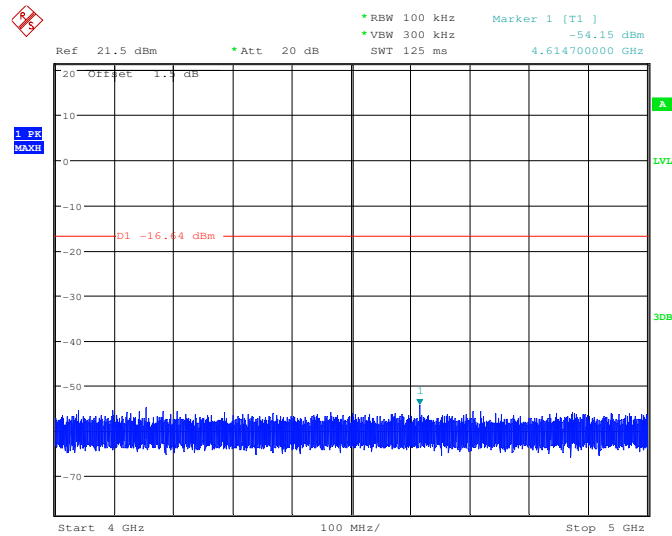
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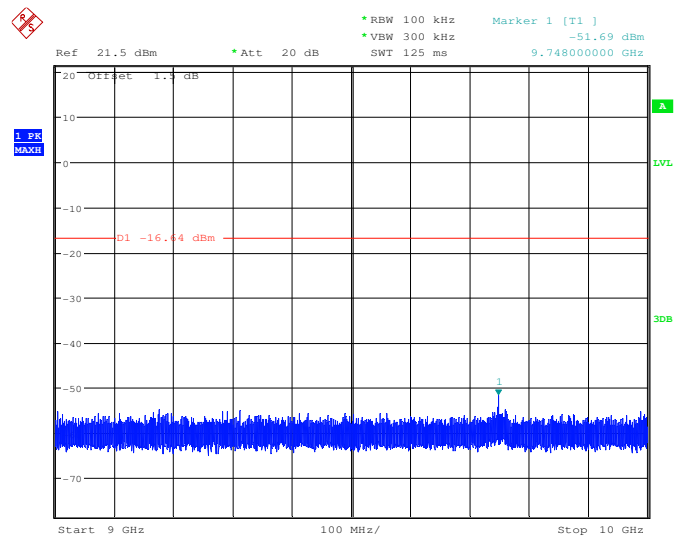
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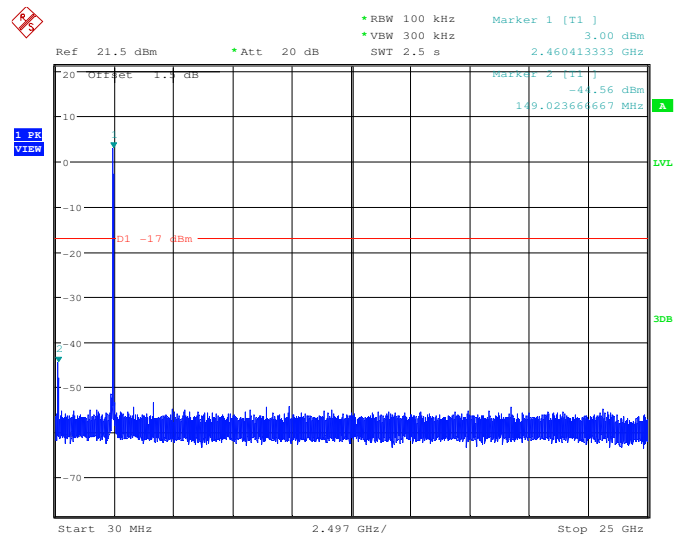
Page: 79 of 127



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Test mode:	802.11n(HT20)	Test channel:	Highest
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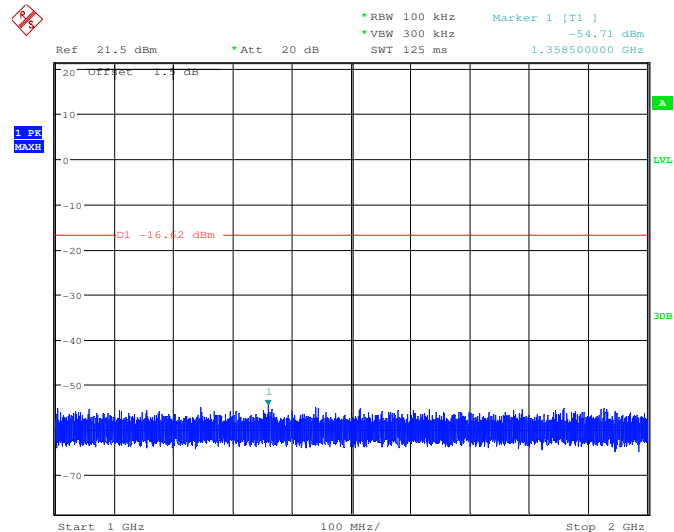
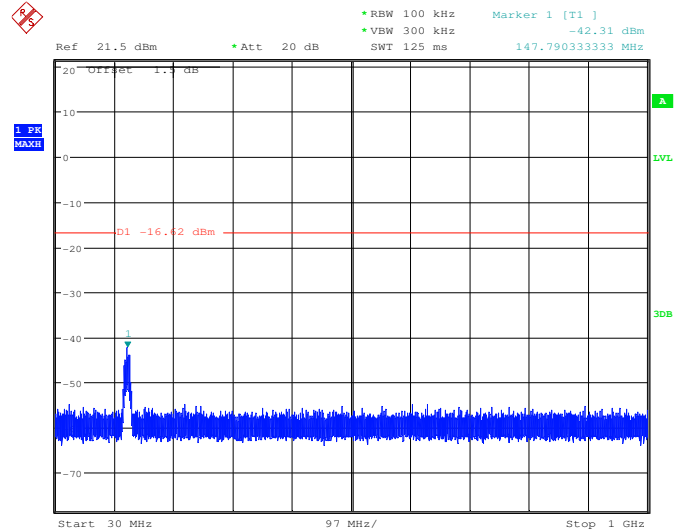
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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 81 of 127



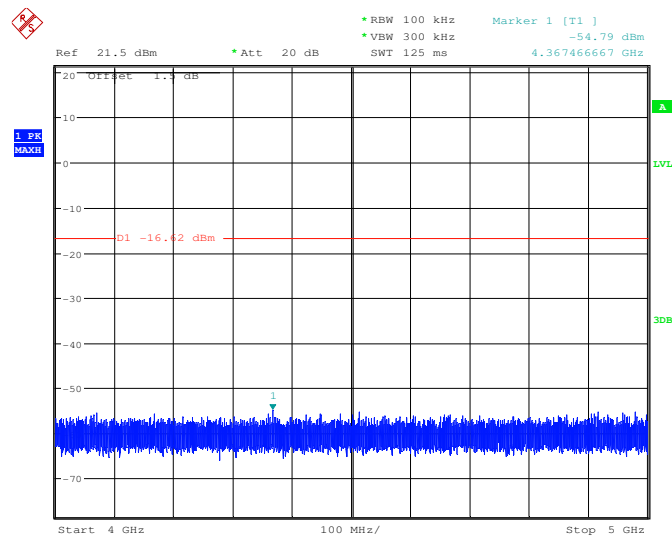
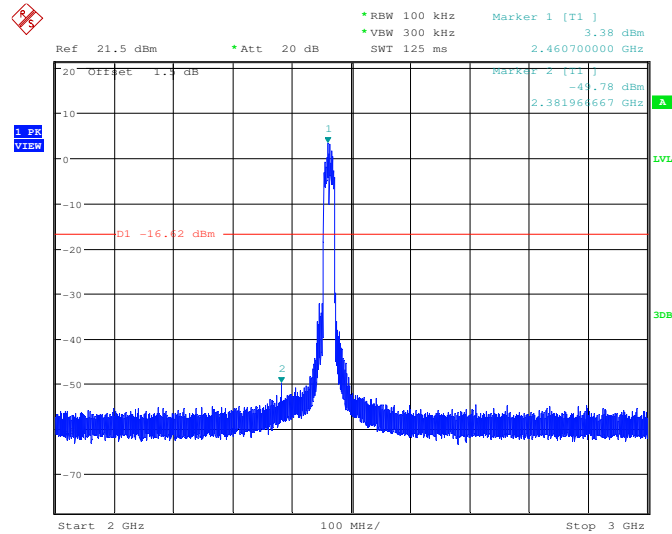
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Report No.: SZEM150500255103

Page: 82 of 127



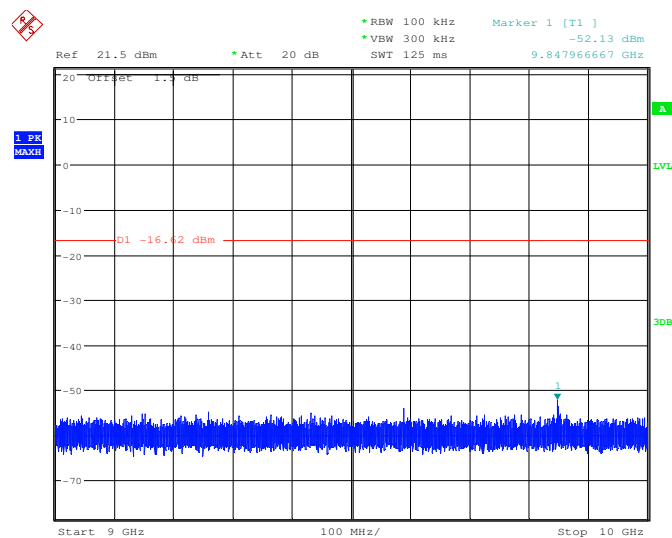
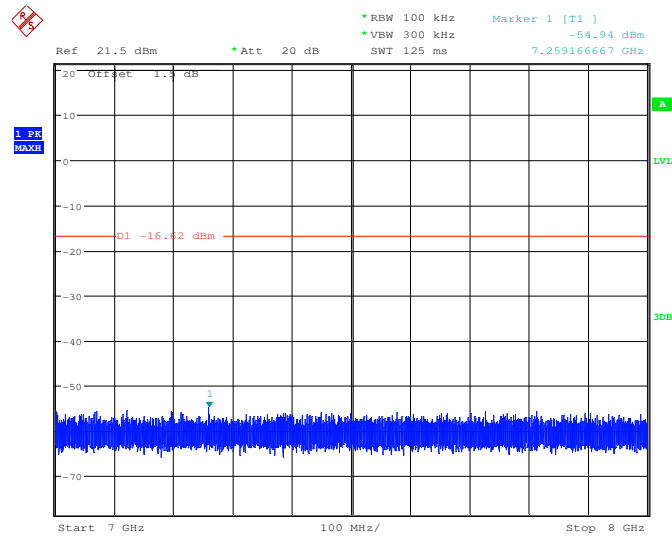
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Report No.: SZEM150500255103

Page: 83 of 127



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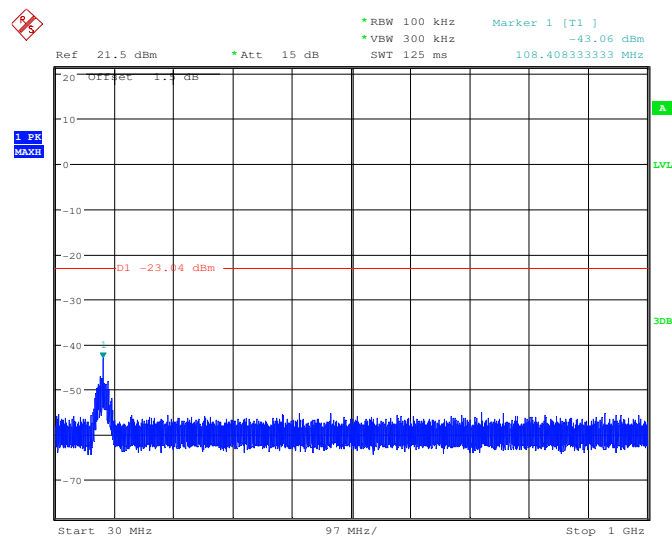
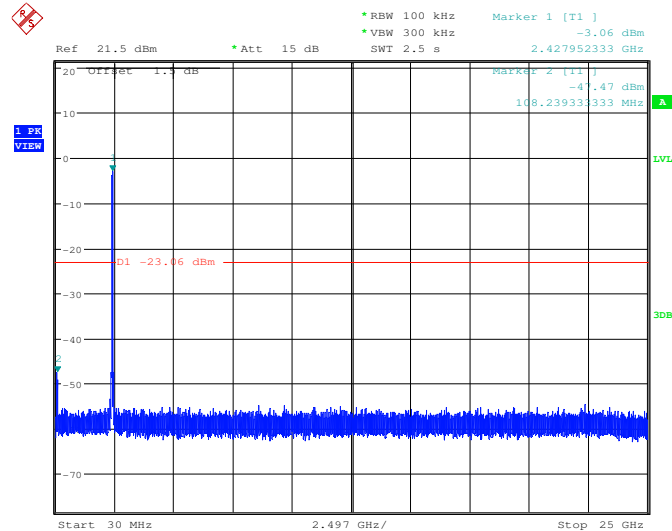


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 84 of 127

Test mode:	802.11n(HT40)	Test channel:	Lowest
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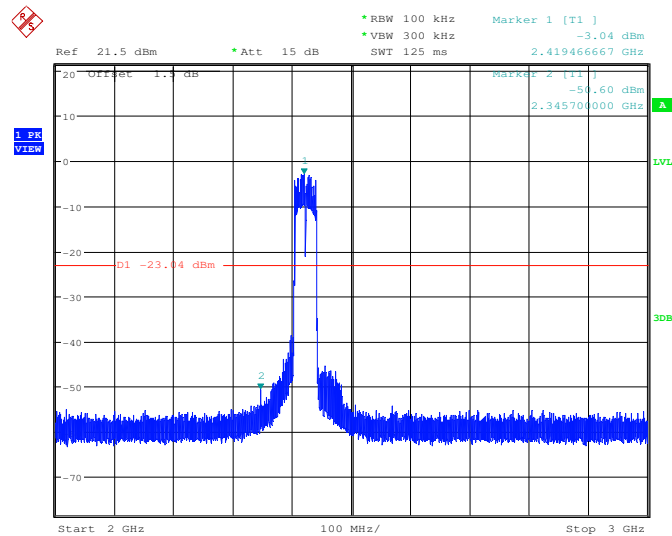
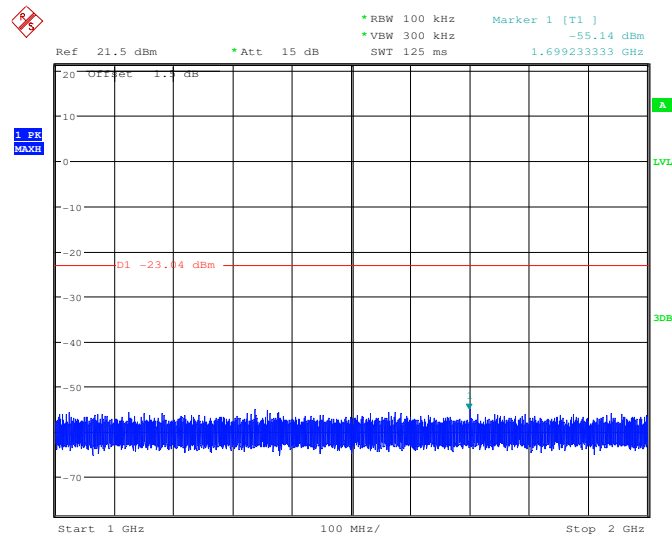
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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 85 of 127



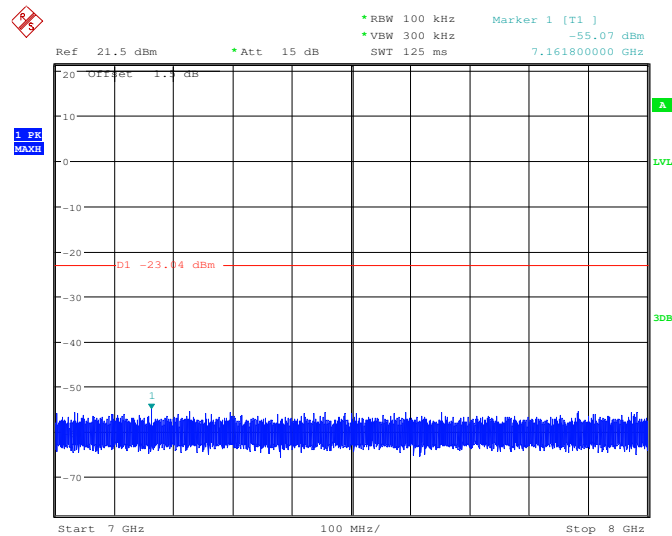
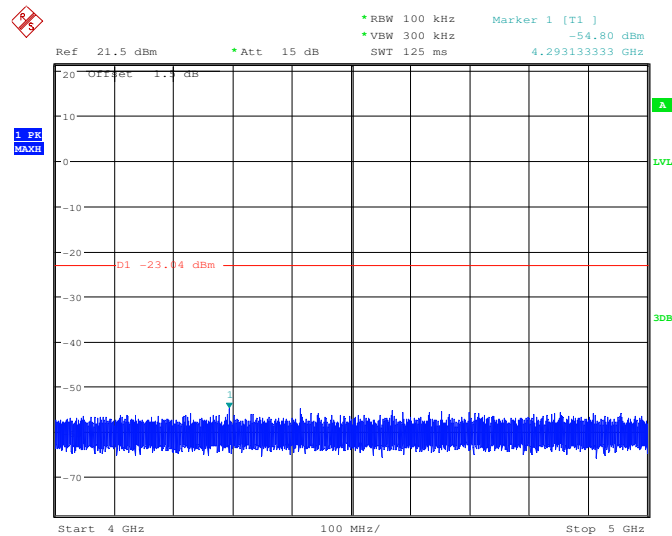
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Report No.: SZEM150500255103

Page: 86 of 127



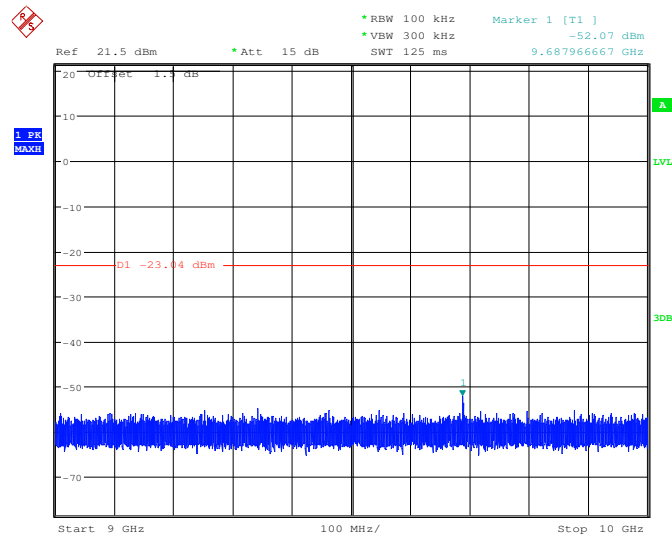
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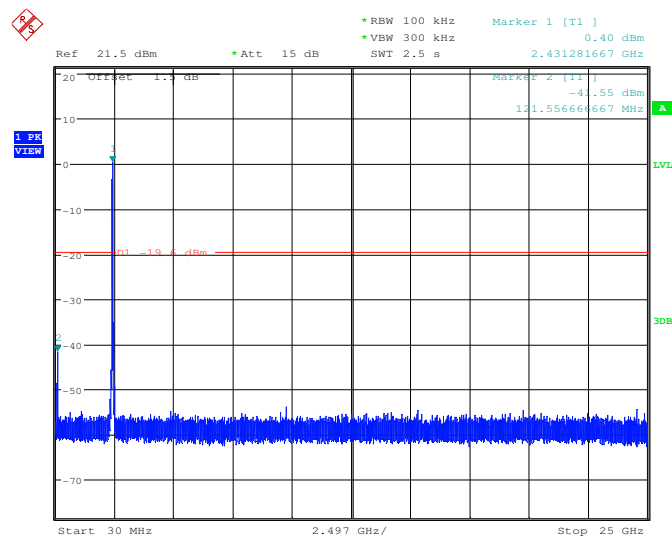
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Report No.: SZEM150500255103

Page: 87 of 127



Test mode:	802.11n(HT40)	Test channel:	Middle
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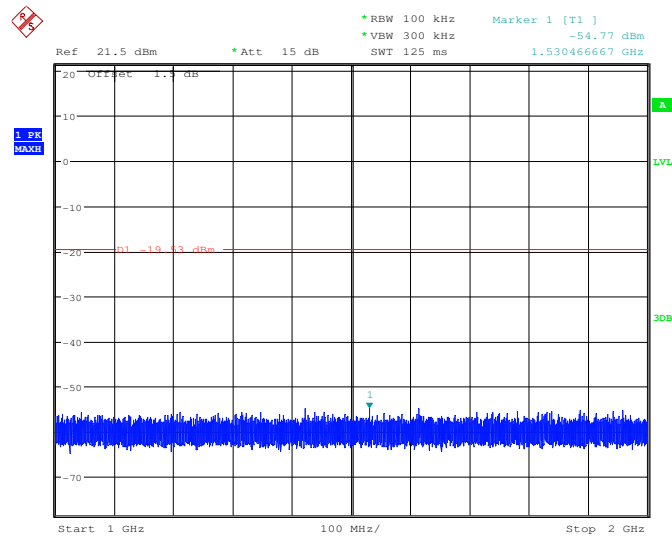
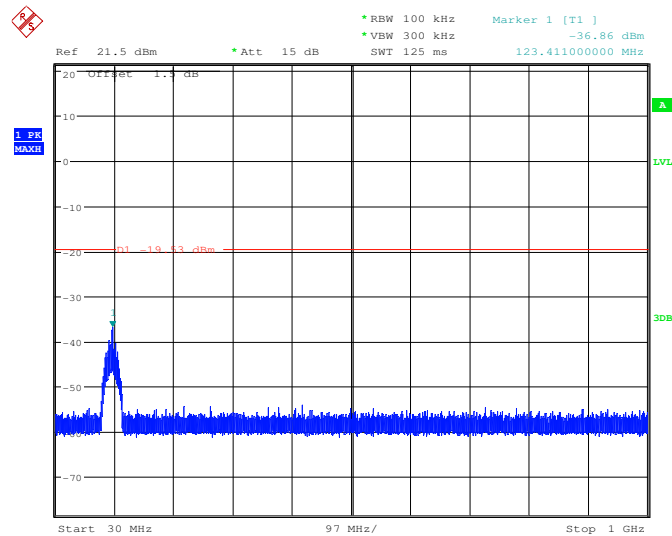
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Report No.: SZEM150500255103

Page: 88 of 127



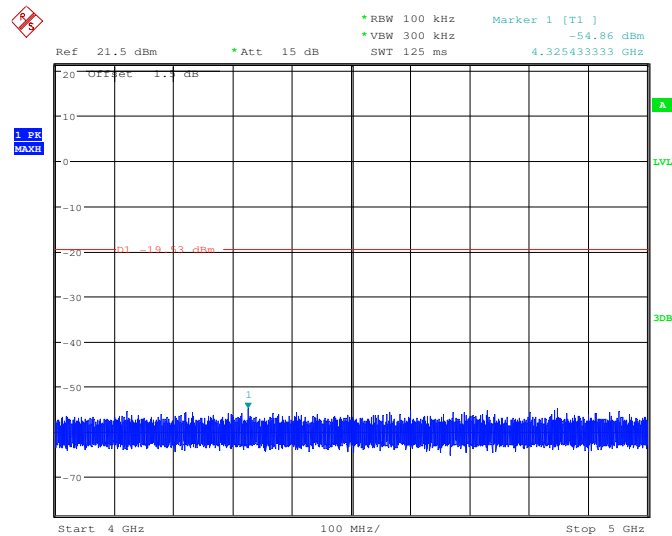
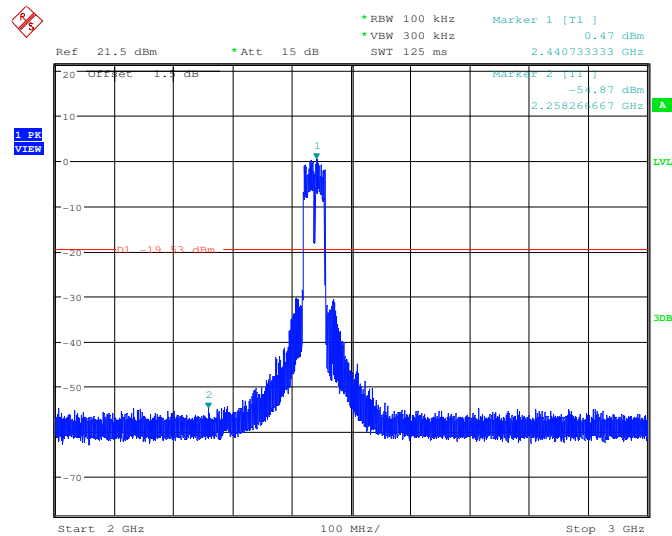
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Report No.: SZEM150500255103

Page: 89 of 127



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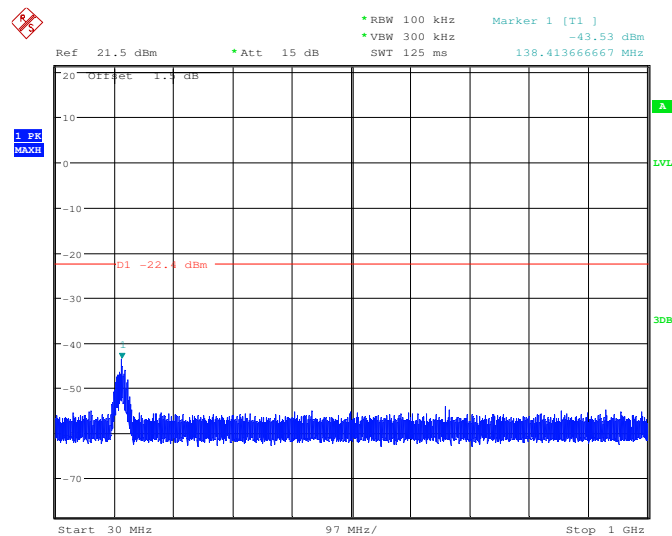
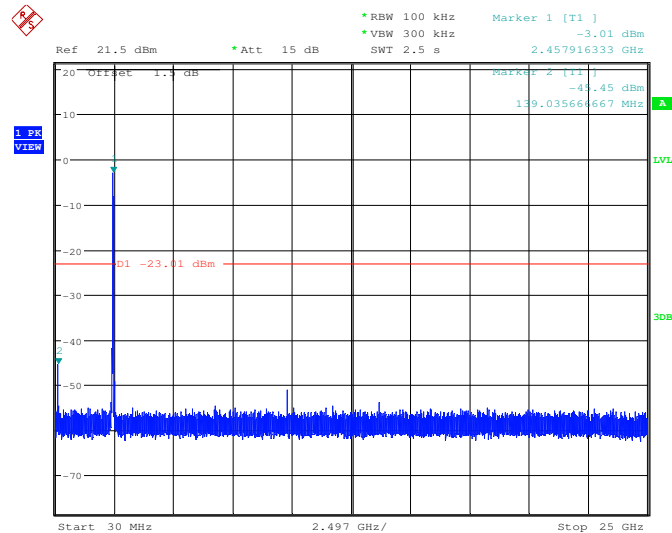


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Report No.: SZEM150500255103

Page: 91 of 127

Test mode:	802.11n(HT40)	Test channel:	Highest
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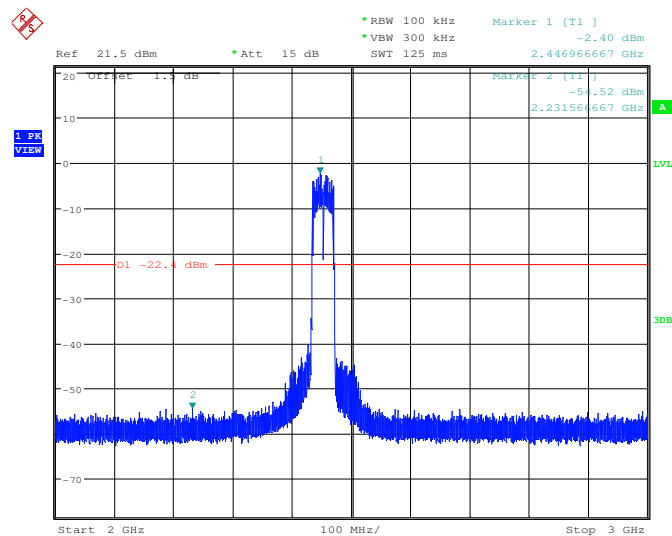
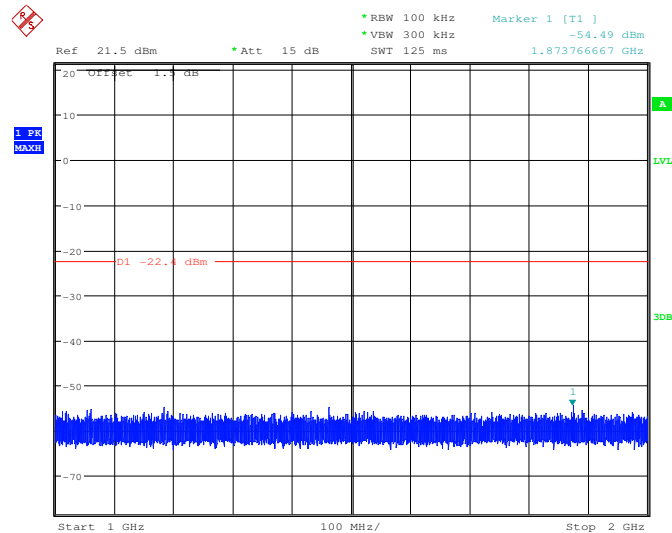
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Report No.: SZEM150500255103

Page: 92 of 127



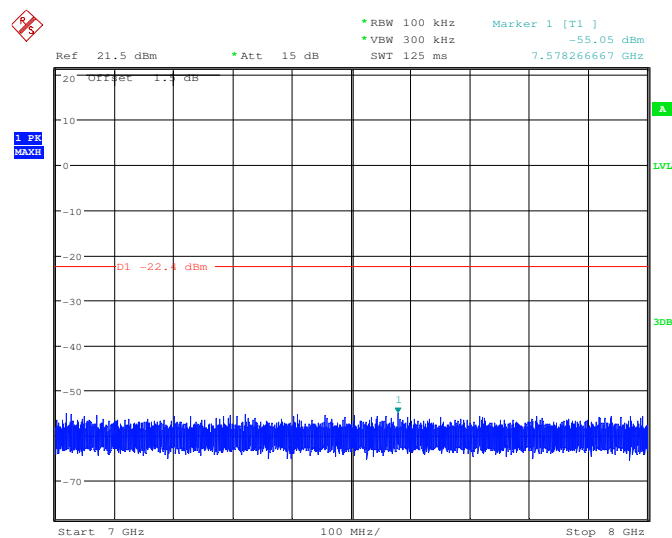
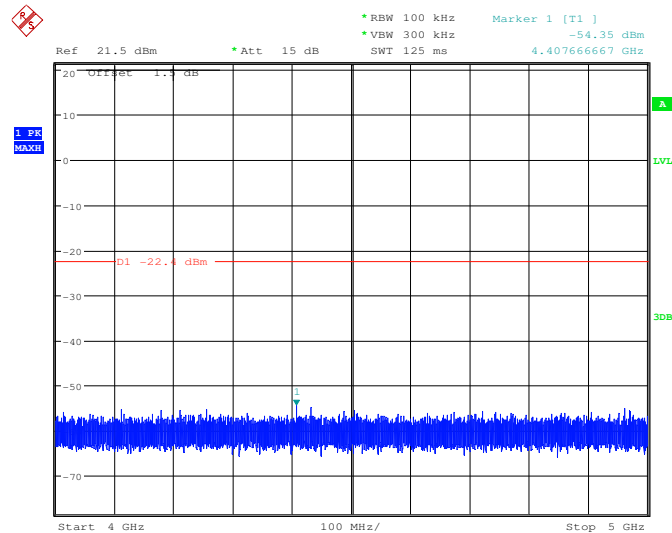
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Report No.: SZEM150500255103

Page: 93 of 127



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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 2009				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

Test Setup:

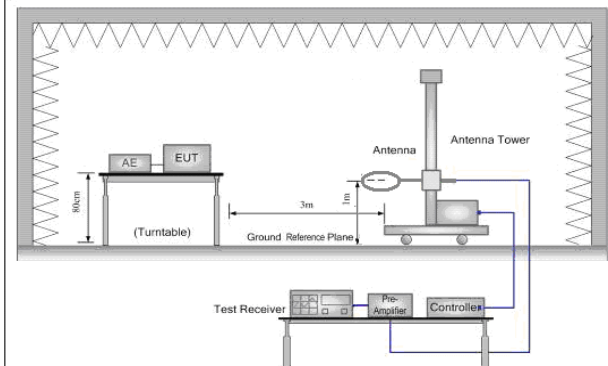


Figure 1. Below 30MHz

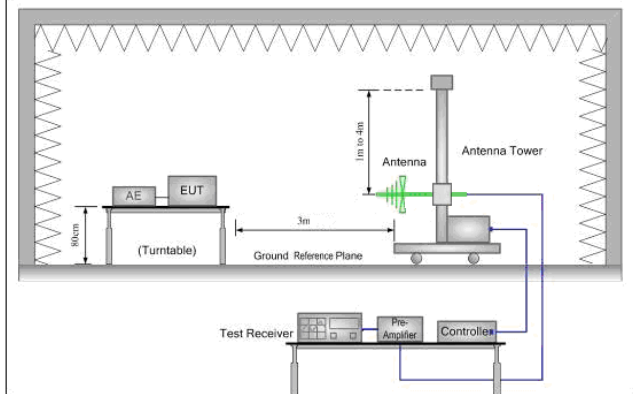


Figure 2. 30MHz to 1GHz

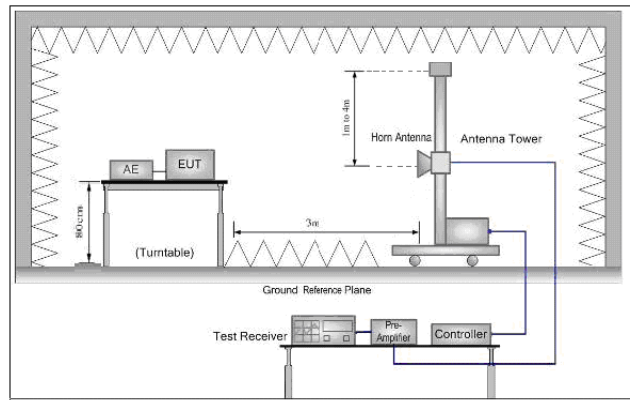


Figure 3. Above 1 GHz

Test Procedure:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

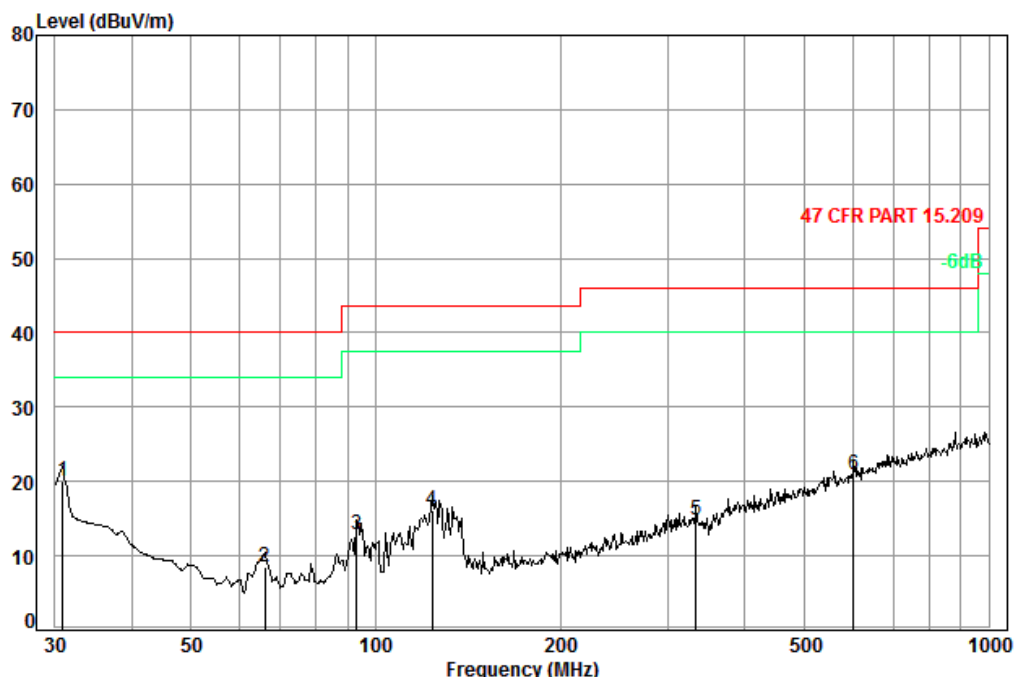
Page: 97 of 127

	<p>method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Transmitting mode, Charge + Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case</p> <p>Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;</p> <p>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)</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



6.8.1 Radiated emission below 1GHz

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



Condition: 47 CFR PART 15.209 3m Vertical

Job No. : 2551HR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.87	0.60	18.22	27.35	28.63	20.10	40.00	-19.90
2	65.94	0.80	7.02	27.25	27.86	8.43	40.00	-31.57
3	93.27	1.13	8.83	27.21	30.01	12.76	43.50	-30.74
4	123.53	1.26	7.83	27.05	34.16	16.20	43.50	-27.30
5	333.36	2.01	14.50	26.66	24.96	14.81	46.00	-31.19
6	602.12	2.71	19.86	27.54	25.84	20.87	46.00	-25.13

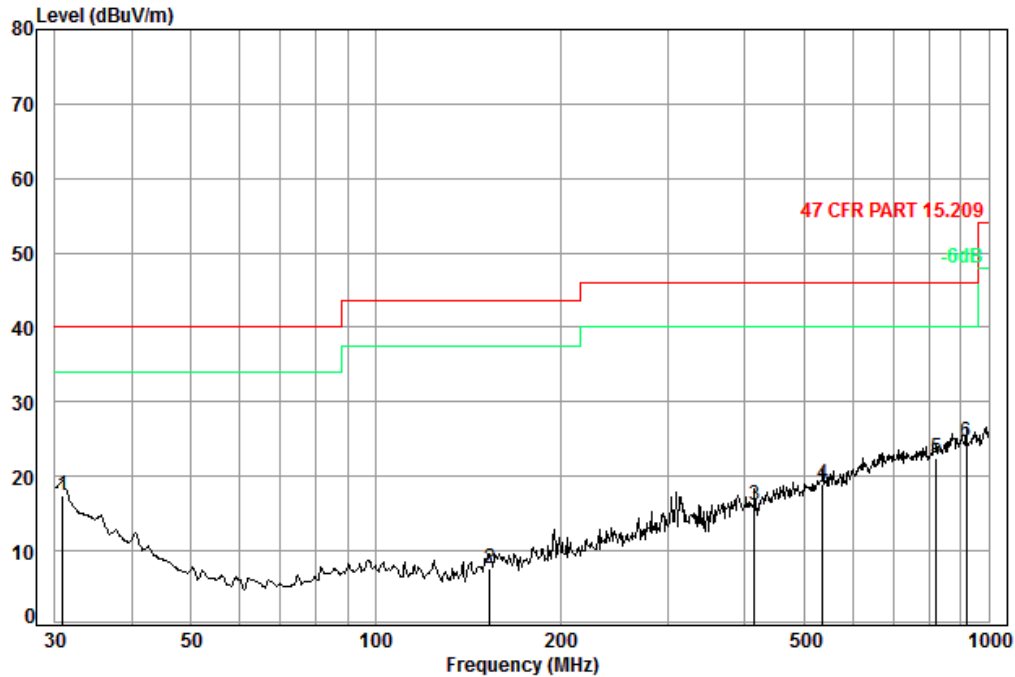


SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 99 of 127

Test mode:	Transmitting	Horizontal
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Condition: 47 CFR PART 15.209 3m Horizontal

Job No. : 2551HR

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.87	0.60	18.22	27.35	26.00	17.47	40.00	-22.53
2	153.77	1.33	9.23	26.89	24.01	7.68	43.50	-35.82
3	414.96	2.27	16.36	27.23	24.82	16.22	46.00	-29.78
4	535.75	2.64	18.67	27.64	25.19	18.86	46.00	-27.14
5	821.12	3.30	22.35	27.16	23.93	22.42	46.00	-23.58
6	919.48	3.62	23.28	26.68	24.41	24.63	46.00	-21.37

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**6.8.2 Transmitter emission above 1GHz**

Test mode:		802.11b		Test channel:		Lowest		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3840.231	-32.5	33.3	0.0	41.5	42.3	74.0	-31.7	Vertical	
4824.000	-31.8	34.4	0.0	42.4	45.0	74.0	-29.0	Vertical	
6090.239	-30.6	35.0	0.0	41.7	46.1	74.0	-27.9	Vertical	
7236.000	-30.1	35.8	0.0	40.7	46.4	74.0	-27.6	Vertical	
9648.000	-27.8	37.2	0.0	38.5	47.9	74.0	-26.1	Vertical	
12120.243	-26.5	37.9	0.0	37.8	49.2	74.0	-24.8	Vertical	
3765.247	-32.4	32.9	0.0	43.2	43.7	74.0	-30.3	Horizontal	
4824.000	-31.8	34.4	0.0	43.8	46.4	74.0	-27.6	Horizontal	
6030.238	-30.4	34.9	0.0	42.9	47.4	74.0	-26.6	Horizontal	
7236.000	-30.1	35.8	0.0	40.4	46.1	74.0	-27.9	Horizontal	
9648.000	-27.8	37.2	0.0	40.5	49.9	74.0	-24.1	Horizontal	
11985.233	-26.5	37.7	0.0	37.2	48.4	74.0	-25.6	Horizontal	

Test mode:		802.11b		Test channel:		Middle		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3645.239	-32.4	32.5	0.0	42.6	42.7	74.0	-31.3	Vertical	
4874.000	-31.8	34.5	0.0	42.6	45.3	74.0	-28.7	Vertical	
5985.000	-30.3	34.8	0.0	41.7	46.2	74.0	-27.8	Vertical	
7311.000	-30.1	35.7	0.0	39.8	45.4	74.0	-28.6	Vertical	
9748.000	-27.4	37.3	0.0	36.1	46.0	74.0	-28.0	Vertical	
12495.000	-26.5	38.0	0.0	37.8	49.3	74.0	-24.7	Vertical	
3645.000	-32.4	32.5	0.0	43.5	43.6	74.0	-30.4	Horizontal	
4874.000	-31.8	34.5	0.0	43.8	46.5	74.0	-27.5	Horizontal	
6000.000	-30.3	34.9	0.0	41.3	45.9	74.0	-28.1	Horizontal	
7311.000	-30.1	35.7	0.0	39.9	45.5	74.0	-28.5	Horizontal	
9748.000	-27.4	37.3	0.0	42.2	52.1	74.0	-21.9	Horizontal	
12090.000	-26.5	37.9	0.0	36.8	48.2	74.0	-25.8	Horizontal	



SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 101 of 127

Test mode:		802.11b		Test channel:		Highest		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3690.000	-32.4	32.7	0.0	43.2	43.5	74.0	-30.5	Vertical	
4924.000	-31.8	34.6	0.0	42.8	45.6	74.0	-28.4	Vertical	
6075.000	-30.5	35.0	0.0	41.2	45.7	74.0	-28.3	Vertical	
7386.000	-30.0	35.7	0.0	40.2	45.9	74.0	-28.1	Vertical	
9848.000	-26.9	37.3	0.0	39.7	50.1	74.0	-23.9	Vertical	
12645.000	-26.5	38.1	0.0	37.9	49.5	74.0	-24.5	Vertical	
3690.000	-32.4	32.7	0.0	42.8	43.1	74.0	-30.9	Horizontal	
4924.000	-31.8	34.6	0.0	45.1	47.9	74.0	-26.1	Horizontal	
6510.000	-30.8	35.3	0.0	41.7	46.2	74.0	-27.8	Horizontal	
7386.000	-30.0	35.7	0.0	41.5	47.2	74.0	-26.8	Horizontal	
9848.000	-26.9	37.3	0.0	43.0	53.4	74.0	-20.6	Horizontal	
12645.000	-26.5	38.1	0.0	37.5	49.1	74.0	-24.9	Horizontal	

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 102 of 127

Test mode:		802.11g		Test channel:		Lowest		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3810.000	-32.4	33.1	0.0	41.9	42.6	74.0	-31.4	Vertical	
4824.000	-31.8	34.4	0.0	41.6	44.2	74.0	-29.8	Vertical	
6090.000	-30.6	35.0	0.0	41.7	46.1	74.0	-27.9	Vertical	
7236.000	-30.1	35.8	0.0	40.0	45.7	74.0	-28.3	Vertical	
9648.000	-27.8	37.2	0.0	38.6	48.0	74.0	-26.0	Vertical	
11985.000	-26.5	37.7	0.0	36.7	47.9	74.0	-26.1	Vertical	
3735.000	-32.4	32.8	0.0	41.7	42.1	74.0	-31.9	Horizontal	
4824.000	-31.8	34.4	0.0	42.0	44.6	74.0	-29.4	Horizontal	
5655.000	-30.4	34.4	0.0	42.5	46.5	74.0	-27.5	Horizontal	
7236.000	-30.1	35.8	0.0	40.3	46.0	74.0	-28.0	Horizontal	
9648.000	-27.8	37.2	0.0	41.0	50.4	74.0	-23.6	Horizontal	
12015.000	-26.5	37.8	0.0	37.3	48.6	74.0	-25.4	Horizontal	

Test mode:		802.11g		Test channel:		Middle		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3810.000	-32.4	33.1	0.0	41.1	41.8	74.0	-32.2	Vertical	
4874.000	-31.8	34.5	0.0	42.7	45.4	74.0	-28.6	Vertical	
5805.000	-30.6	34.3	0.0	42.0	45.7	74.0	-28.3	Vertical	
7311.000	-30.1	35.7	0.0	41.4	47.0	74.0	-27.0	Vertical	
9748.000	-27.4	37.3	0.0	38.5	48.4	74.0	-25.6	Vertical	
12645.000	-26.5	38.1	0.0	36.7	48.3	74.0	-25.7	Vertical	
3915.000	-32.5	33.2	0.0	42.1	42.8	74.0	-31.2	Horizontal	
4874.000	-31.8	34.5	0.0	44.3	47.0	74.0	-27.0	Horizontal	
6075.000	-30.5	35.0	0.0	41.9	46.4	74.0	-27.6	Horizontal	
7311.000	-30.1	35.7	0.0	42.1	47.7	74.0	-26.3	Horizontal	
9748.000	-27.4	37.3	0.0	43.3	53.2	74.0	-20.8	Horizontal	
12015.000	-26.5	37.8	0.0	37.1	48.4	74.0	-25.6	Horizontal	

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 103 of 127

Test mode:		802.11g		Test channel:		Highest		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3810.000	-32.4	33.1	0.0	42.6	43.3	74.0	-30.7	Vertical	
4924.000	-31.8	34.6	0.0	42.6	45.4	74.0	-28.6	Vertical	
6000.000	-30.3	34.9	0.0	41.6	46.2	74.0	-27.8	Vertical	
7386.000	-30.0	35.7	0.0	40.6	46.3	74.0	-27.7	Vertical	
9848.000	-26.9	37.3	0.0	38.4	48.8	74.0	-25.2	Vertical	
12645.000	-26.5	38.1	0.0	36.6	48.2	74.0	-25.8	Vertical	
3915.000	-32.5	33.2	0.0	42.0	42.7	74.0	-31.3	Horizontal	
4924.000	-31.8	34.6	0.0	45.0	47.8	74.0	-26.2	Horizontal	
6180.000	-30.8	34.9	0.0	41.7	45.8	74.0	-28.2	Horizontal	
7386.000	-30.0	35.7	0.0	42.4	48.1	74.0	-25.9	Horizontal	
9848.000	-26.9	37.3	0.0	43.2	53.6	74.0	-20.4	Horizontal	
12105.000	-26.5	37.9	0.0	36.7	48.1	74.0	-25.9	Horizontal	

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 104 of 127

Test mode:		802.11n(HT20)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3975.000	-32.6	33.2	0.0	42.1	42.7	74.0	-31.3	Vertical			
4824.000	-31.8	34.4	0.0	41.6	44.2	74.0	-29.8	Vertical			
6090.000	-30.6	35.0	0.0	41.7	46.1	74.0	-27.9	Vertical			
7236.000	-30.1	35.8	0.0	40.6	46.3	74.0	-27.7	Vertical			
9648.000	-27.8	37.2	0.0	39.3	48.7	74.0	-25.3	Vertical			
12225.000	-26.6	37.9	0.0	37.0	48.3	74.0	-25.7	Vertical			
3810.000	-32.4	33.1	0.0	42.0	42.7	74.0	-31.3	Horizontal			
4824.000	-31.8	34.4	0.0	42.8	45.4	74.0	-28.6	Horizontal			
5925.000	-30.4	34.7	0.0	41.7	46.0	74.0	-28.0	Horizontal			
7236.000	-30.1	35.8	0.0	43.0	48.7	74.0	-25.3	Horizontal			
9648.000	-27.8	37.2	0.0	43.6	53.0	74.0	-21.0	Horizontal			
12645.000	-26.5	38.1	0.0	37.1	48.7	74.0	-25.3	Horizontal			

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3660.000	-32.4	32.6	0.0	42.0	42.2	74.0	-31.8	Vertical			
4874.000	-31.8	34.5	0.0	44.2	46.9	74.0	-27.1	Vertical			
5805.000	-30.6	34.3	0.0	42.1	45.8	74.0	-28.2	Vertical			
7311.000	-30.1	35.7	0.0	43.5	49.1	74.0	-24.9	Vertical			
9748.000	-27.4	37.3	0.0	42.1	52.0	74.0	-22.0	Vertical			
12660.000	-26.6	38.1	0.0	37.5	49.0	74.0	-25.0	Vertical			
3750.000	-32.4	32.9	0.0	41.6	42.1	74.0	-31.9	Horizontal			
4874.000	-31.8	34.5	0.0	45.6	48.3	74.0	-25.7	Horizontal			
5655.000	-30.4	34.4	0.0	42.1	46.1	74.0	-27.9	Horizontal			
7311.000	-30.1	35.7	0.0	48.0	53.6	74.0	-20.4	Horizontal			
9748.000	-27.4	37.3	0.0	46.0	55.9	74.0	-18.1	Horizontal			
12645.000	-26.5	38.1	0.0	37.7	49.3	74.0	-24.7	Horizontal			

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
9748.000	-27.4	37.3	0.0	31.3	41.2	54.0	-12.8	Horizontal			

Test mode:		802.11n(HT20)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	Polarization			

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 105 of 127

	(dB)	(dB/m)	(dB)	(dBuV)			(dB)	
3870.000	-32.5	33.3	0.0	41.7	42.5	74.0	-31.5	Vertical
4924.000	-31.8	34.6	0.0	42.4	45.2	74.0	-28.8	Vertical
6075.000	-30.5	35.0	0.0	41.2	45.7	74.0	-28.3	Vertical
7386.000	-30.0	35.7	0.0	40.7	46.4	74.0	-27.6	Vertical
9848.000	-26.9	37.3	0.0	39.9	50.3	74.0	-23.7	Vertical
12435.000	-26.5	38.0	0.0	37.1	48.6	74.0	-25.4	Vertical
3750.000	-32.4	32.9	0.0	42.1	42.6	74.0	-31.4	Horizontal
4924.000	-31.8	34.6	0.0	45.1	47.9	74.0	-26.1	Horizontal
6015.000	-30.3	34.9	0.0	40.8	45.4	74.0	-28.6	Horizontal
7386.000	-30.0	35.7	0.0	44.8	50.5	74.0	-23.5	Horizontal
9848.000	-26.9	37.3	0.0	45.5	55.9	74.0	-18.1	Horizontal
12420.000	-26.5	37.9	0.0	37.1	48.5	74.0	-25.5	Horizontal

Test mode:		802.11n(HT20)		Test channel:		Highest		Remark:		Average	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
9848.000	-26.9	37.3	0.0	30.7	41.1	54.0	-12.9	Horizontal			

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM150500255103

Page: 106 of 127

Test mode:		802.11n(HT40)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3705.000	-32.4	32.7	0.0	41.7	42.0	74.0	-32.0	Vertical			
4844.000	-31.8	34.5	0.0	41.4	44.1	74.0	-29.9	Vertical			
5520.000	-30.5	34.7	0.0	41.7	45.9	74.0	-28.1	Vertical			
7266.000	-30.1	35.7	0.0	40.1	45.7	74.0	-28.3	Vertical			
9688.000	-27.6	37.2	0.0	38.0	47.6	74.0	-26.4	Vertical			
12570.000	-26.4	38.0	0.0	36.4	48.0	74.0	-26.0	Vertical			
3765.000	-32.4	32.9	0.0	41.6	42.1	74.0	-31.9	Horizontal			
4844.000	-31.8	34.5	0.0	42.1	44.8	74.0	-29.2	Horizontal			
6045.000	-30.4	35.0	0.0	40.8	45.4	74.0	-28.6	Horizontal			
7266.000	-30.1	35.7	0.0	39.7	45.3	74.0	-28.7	Horizontal			
9688.000	-27.6	37.2	0.0	38.0	47.6	74.0	-26.4	Horizontal			
12630.000	-26.5	38.1	0.0	37.3	48.9	74.0	-25.1	Horizontal			

Test mode:		802.11n(HT40)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3825.000	-32.5	33.2	0.0	41.5	42.2	74.0	-31.8	Vertical			
4874.000	-31.8	34.5	0.0	42.9	45.6	74.0	-28.4	Vertical			
6000.000	-30.3	34.9	0.0	41.4	46.0	74.0	-28.0	Vertical			
7311.000	-30.1	35.7	0.0	40.1	45.7	74.0	-28.3	Vertical			
9748.000	-27.4	37.3	0.0	38.8	48.7	74.0	-25.3	Vertical			
12630.000	-26.5	38.1	0.0	37.1	48.7	74.0	-25.3	Vertical			
3900.000	-32.5	33.2	0.0	41.9	42.6	74.0	-31.4	Horizontal			
4874.000	-31.8	34.5	0.0	42.6	45.3	74.0	-28.7	Horizontal			
6195.000	-30.9	34.9	0.0	41.5	45.5	74.0	-28.5	Horizontal			
7311.000	-30.1	35.7	0.0	41.9	47.5	74.0	-26.5	Horizontal			
9748.000	-27.4	37.3	0.0	44.3	54.2	74.0	-19.8	Horizontal			
12765.000	-26.9	38.2	0.0	38.2	49.5	74.0	-24.5	Horizontal			

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Average	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
9748.000	-27.4	37.3	0.0	28.7	38.6	54.0	-15.4	Horizontal			

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Report No.: SZEM150500255103

Page: 107 of 127

Test mode:		802.11n(HT40)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
3915.000	-32.5	33.2	0.0	42.3	43.0	74.0	-31.0	Vertical		
4904.000	-31.8	34.6	0.0	41.9	44.7	74.0	-29.3	Vertical		
6000.000	-30.3	34.9	0.0	41.3	45.9	74.0	-28.1	Vertical		
7356.000	-30.1	35.7	0.0	39.6	45.2	74.0	-28.8	Vertical		
9808.000	-27.1	37.3	0.0	37.4	47.6	74.0	-26.4	Vertical		
12165.000	-26.6	37.9	0.0	37.0	48.3	74.0	-25.7	Vertical		
3780.000	-32.4	33.0	0.0	41.8	42.4	74.0	-31.6	Horizontal		
4904.000	-31.8	34.6	0.0	42.6	45.4	74.0	-28.6	Horizontal		
6045.000	-30.4	35.0	0.0	41.3	45.9	74.0	-28.1	Horizontal		
7356.000	-30.1	35.7	0.0	40.7	46.3	74.0	-27.7	Horizontal		
9808.000	-27.1	37.3	0.0	39.7	49.9	74.0	-24.1	Horizontal		
12135.000	-26.5	37.9	0.0	36.9	48.3	74.0	-25.7	Horizontal		

Remark:

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

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

- 2) 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.

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2009		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

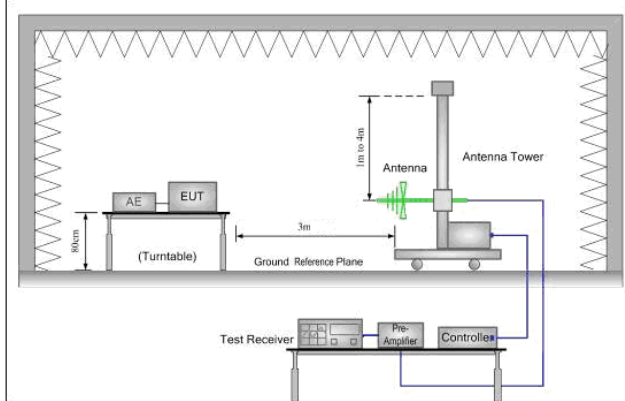


Figure 1. 30MHz to 1GHz

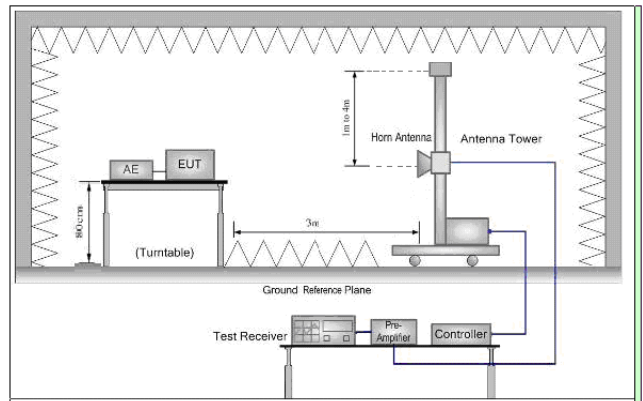


Figure 2. Above 1 GHz



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Report No.: SZEM150500255103

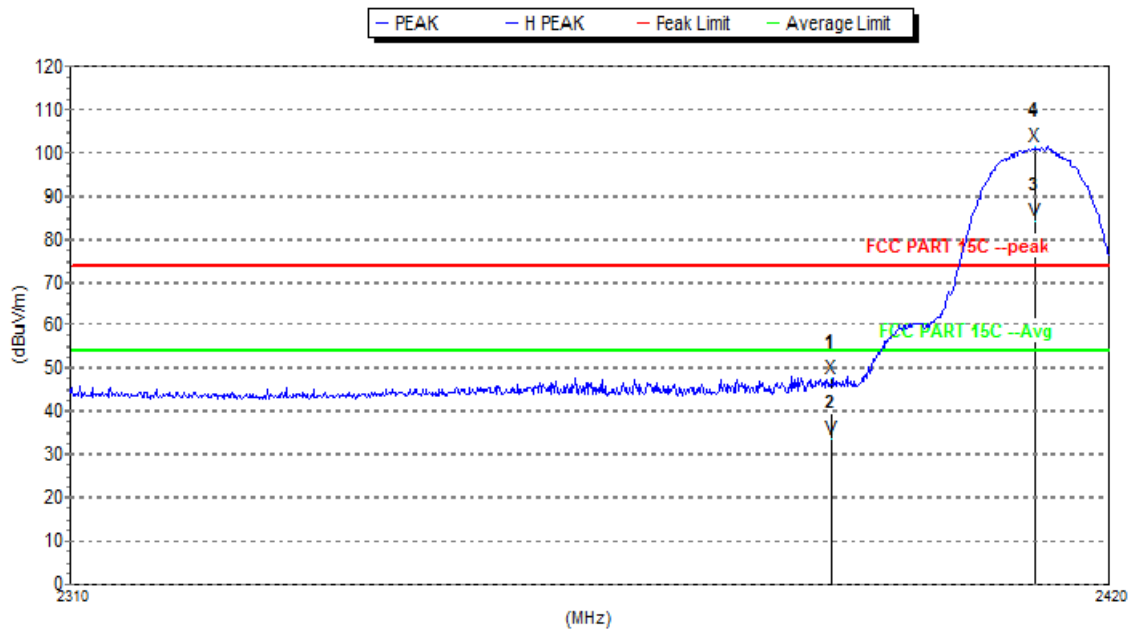
Page: 109 of 127

Test Procedure:	<ul style="list-style-type: none">a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channelg. Test the EUT in the lowest channel , the Highest channelh. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



Test plot as follows:

802.11b:



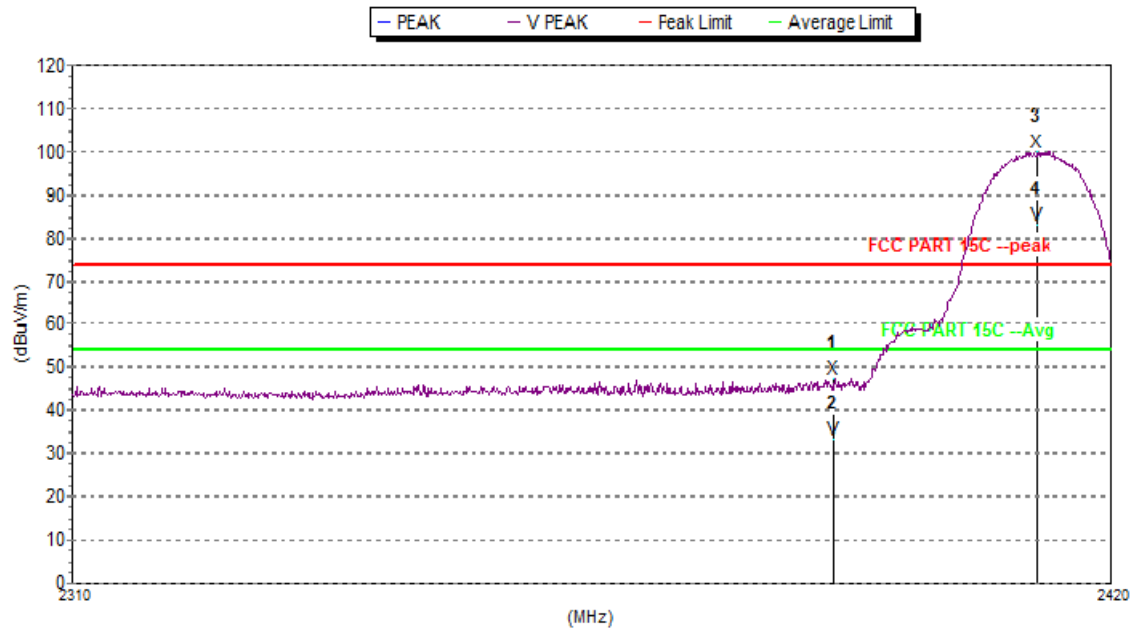
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	47.7	74.0	26.3	32.5	0.0	-20.8	H
2 F	2412	101.5	74.0	-27.5	32.6	0.0	-21.2	H
Avg								
1	2390	33.7	54.0	20.3	32.5	0.0	-20.8	--
2 F	2412	84.1	54.0	-30.1	32.6	0.0	-21.2	H



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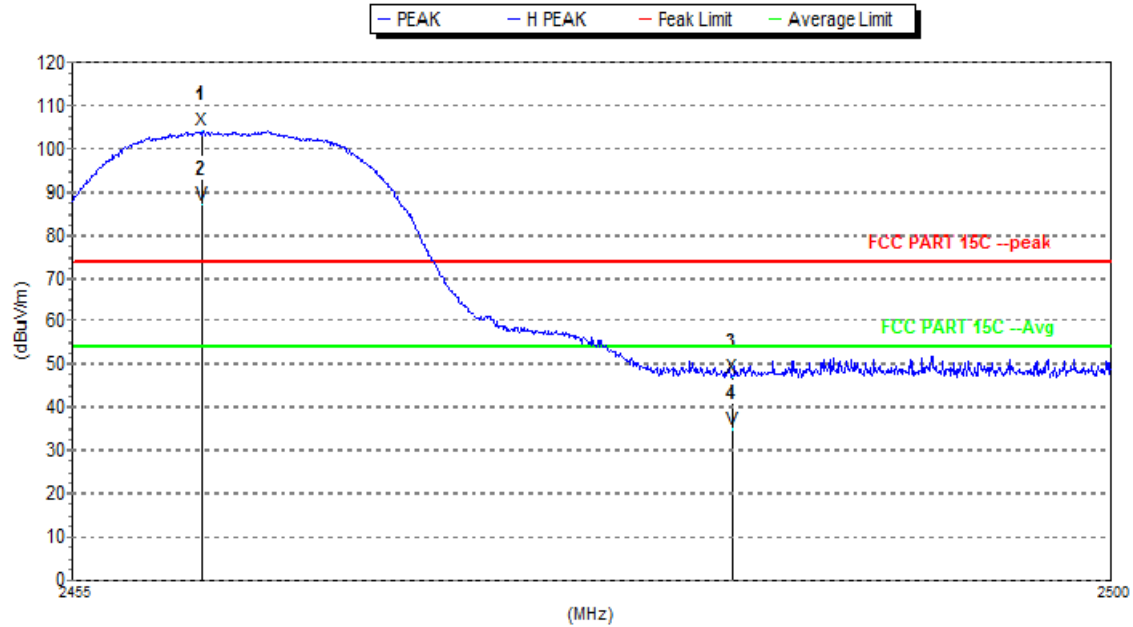
Report No.: SZEM150500255103

Page: 111 of 127

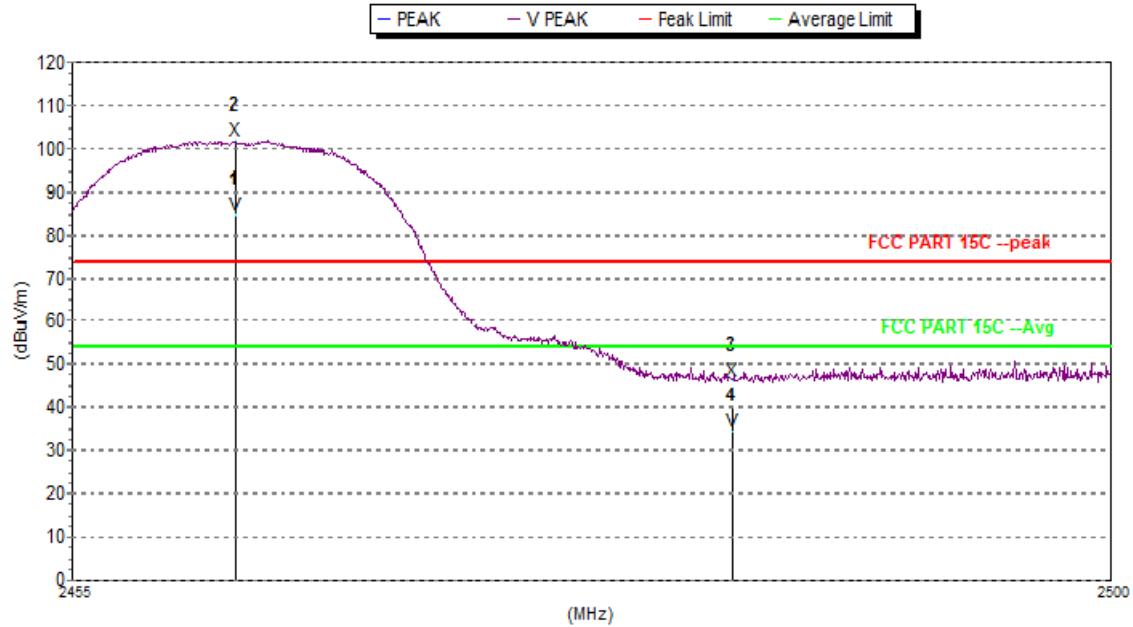


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	47.3	74.0	26.7	32.5	0.0	-20.8	V
2 F	2412	100.1	74.0	-26.1	32.6	0.0	-21.2	V
Avg								
1	2390	33.3	54.0	20.7	32.5	0.0	-20.8	V
2 F	2412	83.0	54.0	-29.0	32.6	0.0	-21.2	V

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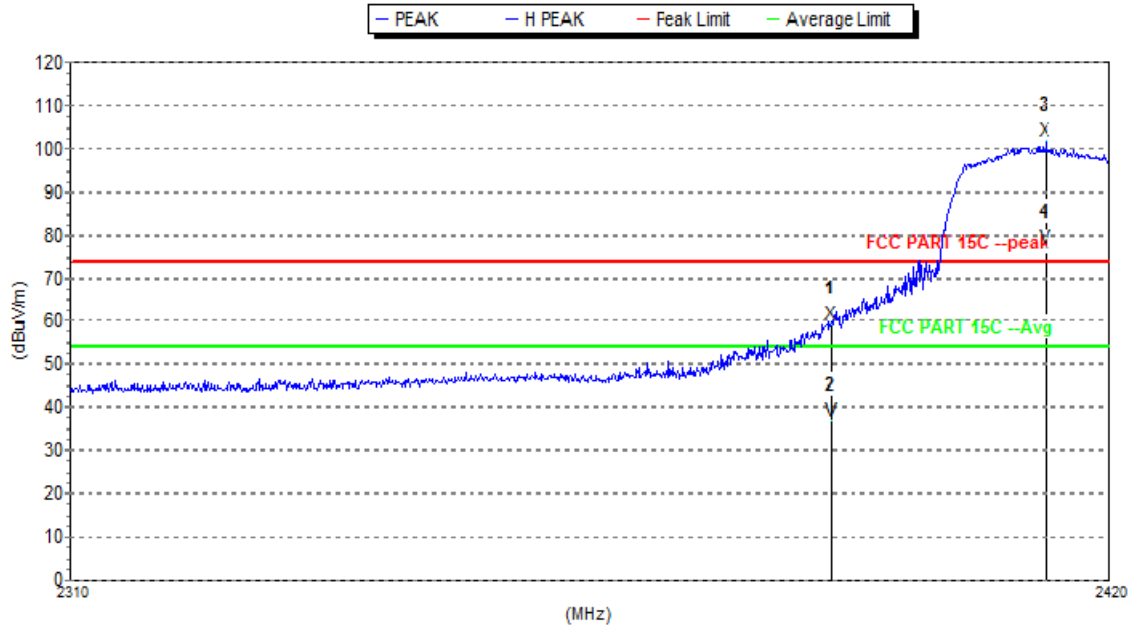
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2460.625	104.4	74.0	-30.4	32.5	0.0	-20.7	H
2	2483.5	47.0	74.0	27.0	32.5	0.0	-20.5	H
Avg								
1 F	2460.625	86.9	54.0	-32.9	32.5	0.0	-20.7	H
2	2483.5	35.1	54.0	18.9	32.5	0.0	-20.5	H



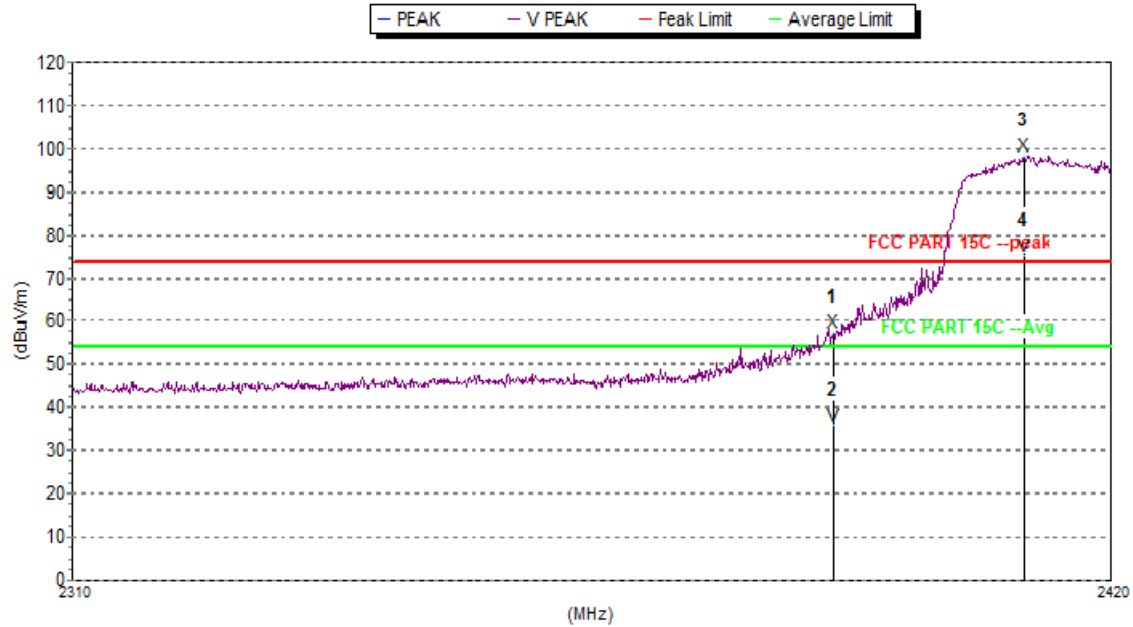
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2462	101.8	74.0	-27.8	32.5	0.0	-20.7	V
2	2483.5	46.3	74.0	27.7	32.5	0.0	-20.7	V
Avg								
1 F	2462	84.7	54.0	-30.7	32.5	0.0	-20.7	--
2	2483.5	34.4	54.0	19.6	32.5	0.0	-20.5	V



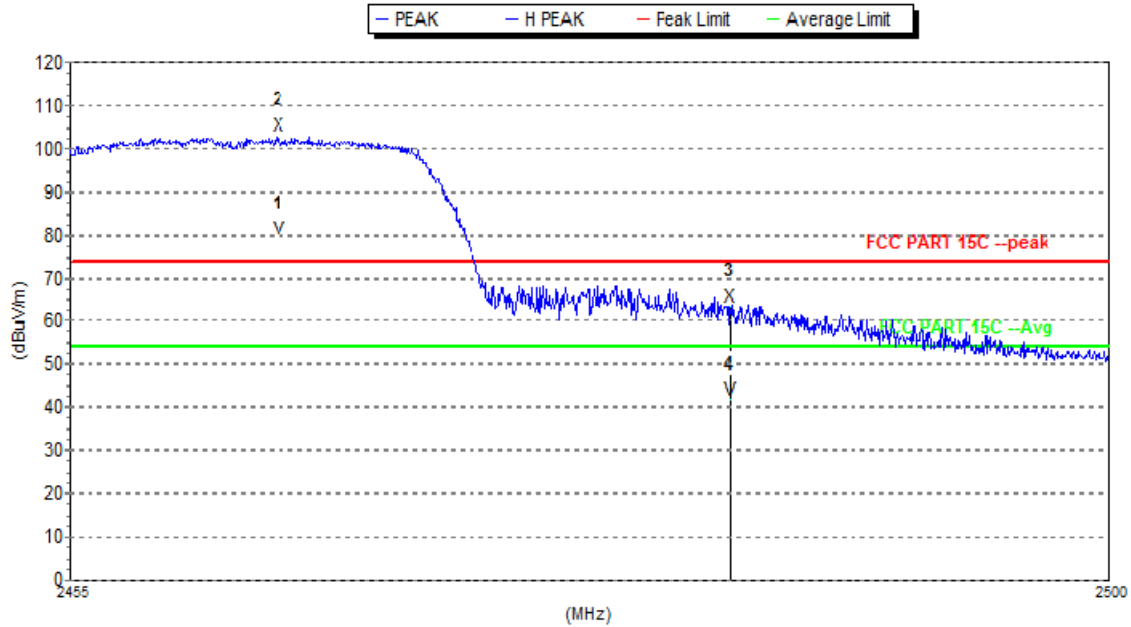
802.11g:



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	59.5	74.0	14.5	32.5	0.0	-20.8	H
2 F	2413.180	101.8	74.0	-27.8	32.6	0.0	-21.2	H
Avg								
1	2390	37.1	54.0	16.9	32.5	0.0	-20.8	H
2 F	2413.180	77.0	54.0	-23.0	32.6	0.0	-21.2	H

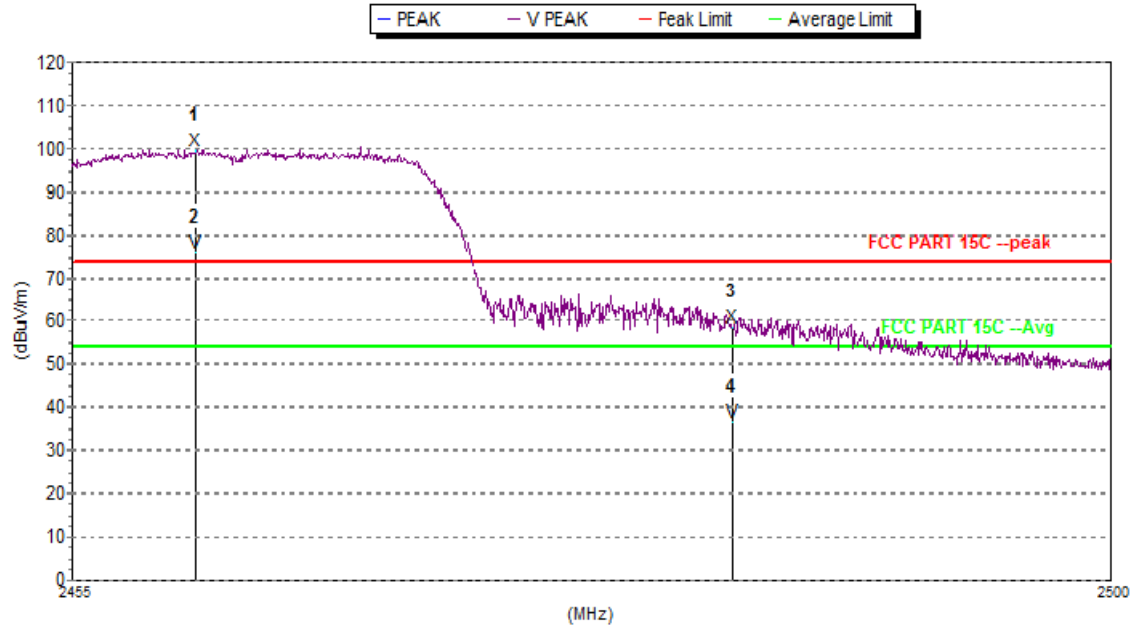


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	57.5	74.0	16.5	32.5	0.0	-20.8	V
2 F	2410.540	98.5	74.0	-24.5	32.5	0.0	-20.8	V
Avg								
1	2390	35.9	54.0	18.1	32.5	0.0	-20.8	--
2 F	2410.540	74.9	54.0	-20.9	32.5	0.0	-21.2	V



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2464.000	103.0	74.0	-29.0	32.5	0.0	-20.6	H
2	2483.5	63.6	74.0	10.4	32.5	0.0	-20.5	H
Avg								
1 F	2464.000	79.2	54.0	-25.2	32.5	0.0	-20.6	--
2	2483.5	41.6	54.0	12.4	32.5	0.0	-20.5	H

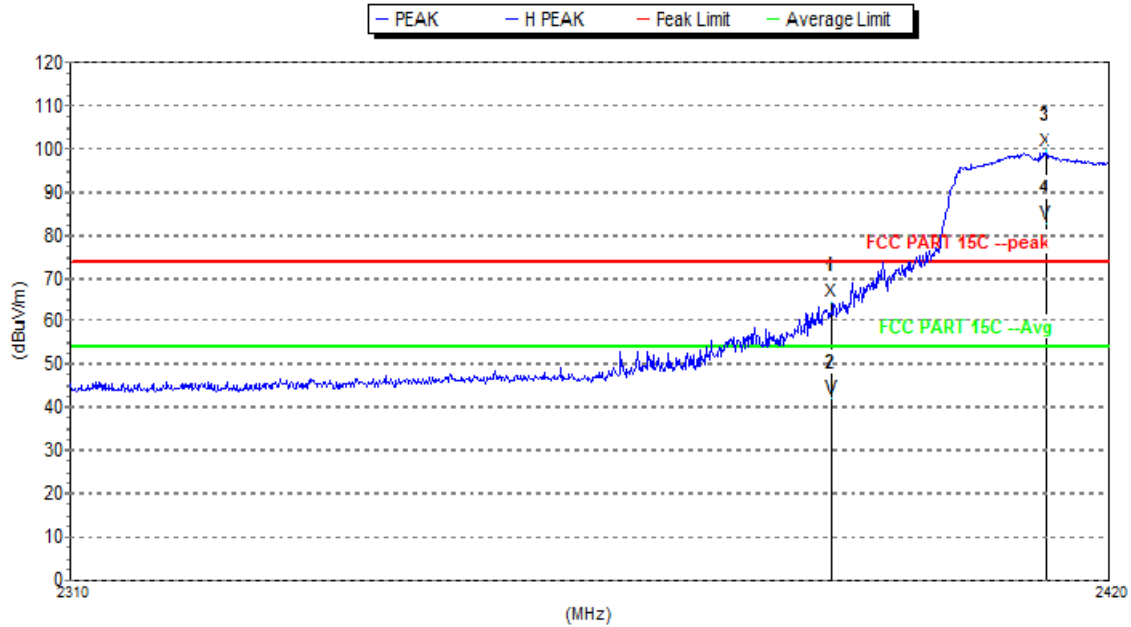




Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2460.355	99.6	74.0	-25.6	32.5	0.0	-20.7	V
2	2483.5	58.6	74.0	15.4	32.5	0.0	-20.5	V
Avg								
1 F	2460.355	75.9	54.0	-21.9	32.5	0.0	-20.7	V
2	2483.5	36.4	54.0	17.6	32.5	0.0	-20.5	V



802.11n(HT20):



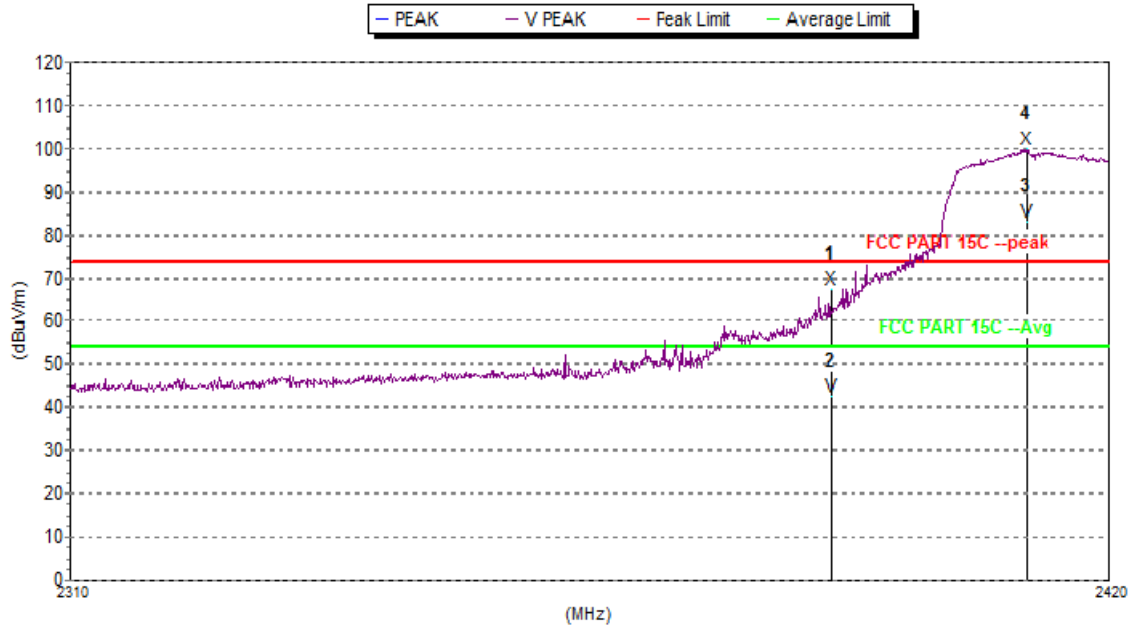
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Peak:								
1	2390	64.6	74.0	9.4	32.5	0.0	-20.8	H
2 F	2413.070	99.6	74.0	-25.6	32.6	0.0	-21.2	H
Avg								
1	2390	42.2	54.0	11.8	32.5	0.0	-20.8	H
2 F	2413.070	82.5	54.0	-28.5	32.6	0.0	-21.2	H



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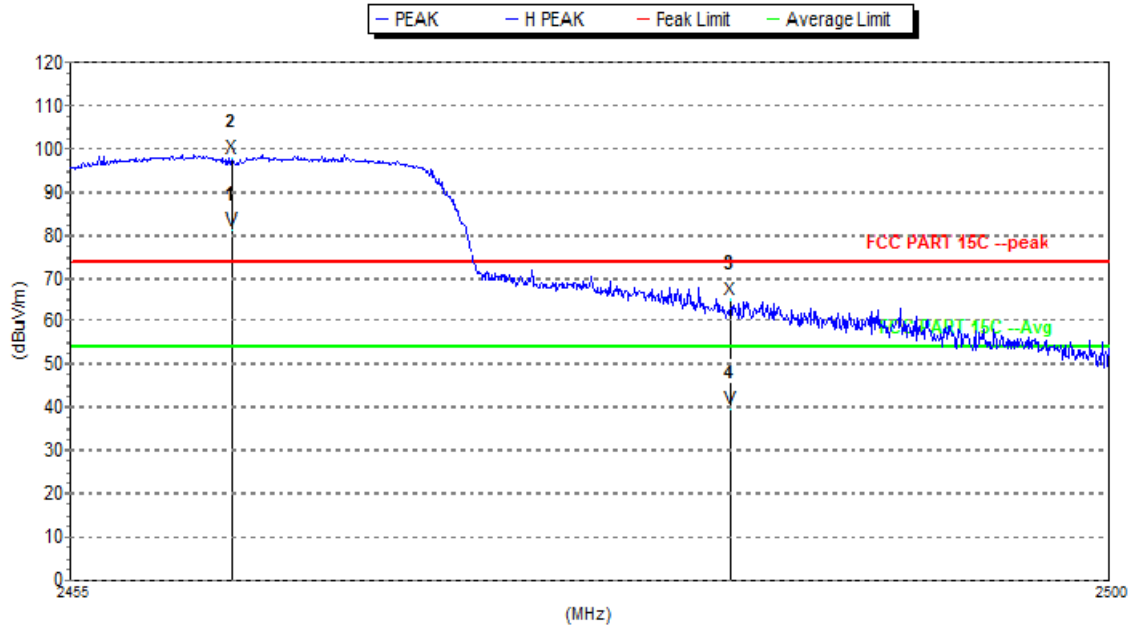
Report No.: SZEM150500255103

Page: 119 of 127

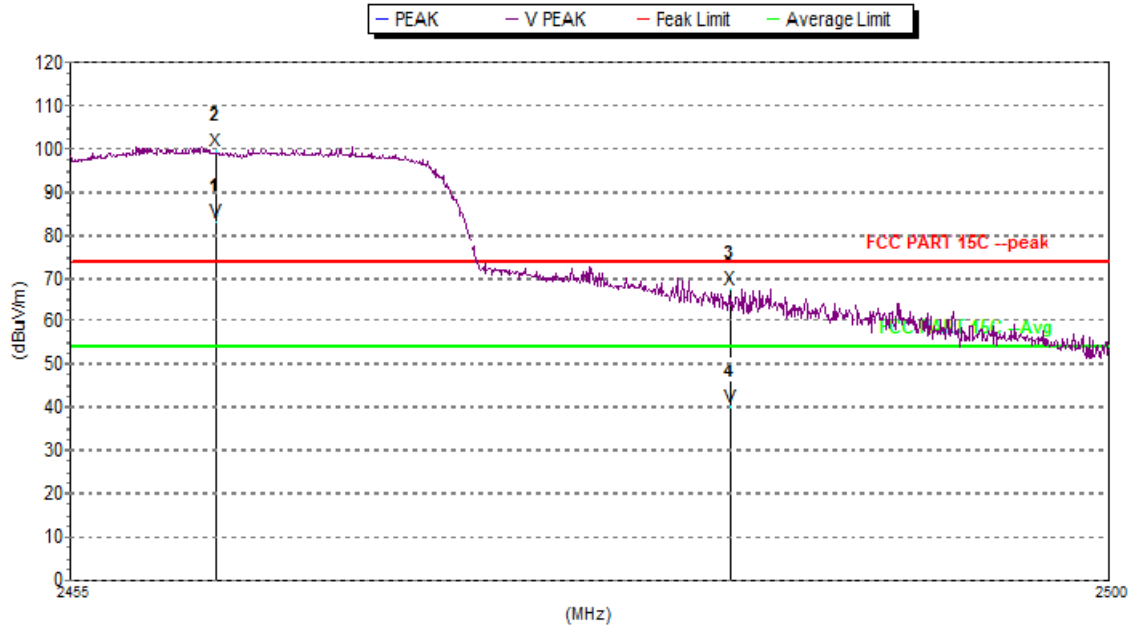


Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2390	67.3	74.0	6.7	32.5	0.0	-20.8	V
2 F	2411.090	99.8	74.0	-25.8	32.6	0.0	-21.2	V
Avg								
1	2390	42.6	54.0	11.4	32.5	0.0	-20.8	V
2 F	2411.090	83.2	54.0	-29.2	32.6	0.0	-21.2	V

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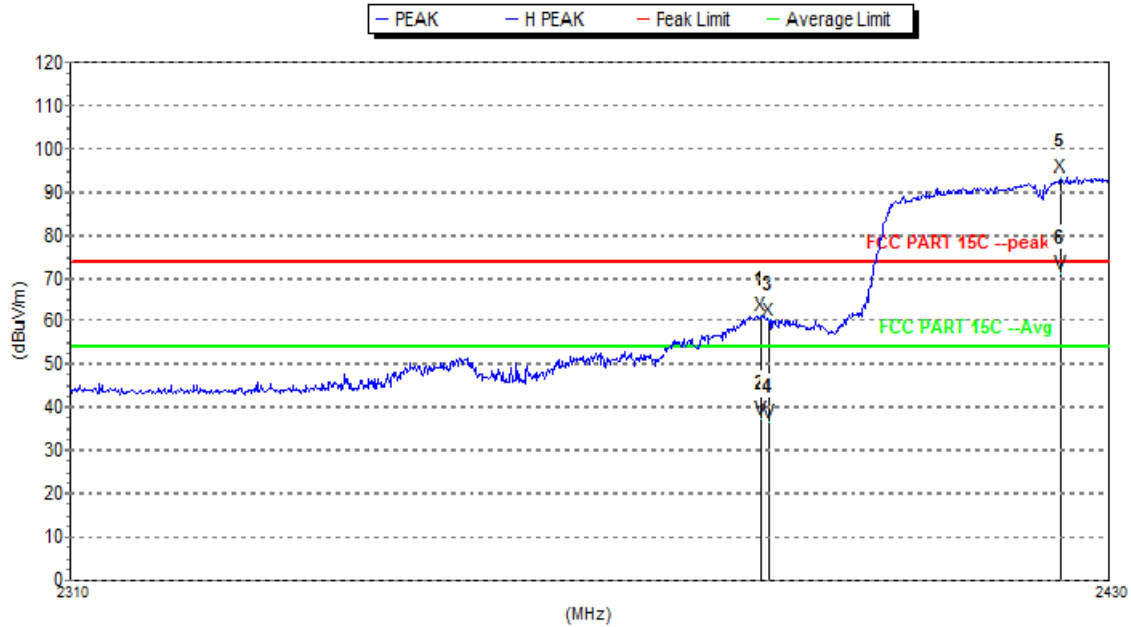
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2461.975	98.1	74.0	-24.1	32.5	0.0	-20.7	H
2	2483.5	65.2	74.0	8.8	32.5	0.0	-20.5	H
Avg								
1 F	2461.975	81.0	54.0	-27.0	32.5	0.0	-20.7	H
2	2483.5	39.8	54.0	14.2	32.5	0.0	-20.5	H



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2461.300	99.5	74.0	-25.5	32.5	0.0	-20.7	V
2	2483.5	67.3	74.0	6.7	32.5	0.0	-20.7	V
Avg								
1 F	2461.300	83.1	54.0	-29.1	32.5	0.0	-20.7	--
2	2483.5	40.3	54.0	13.7	32.5	0.0	-20.5	V



802.11n(HT40):



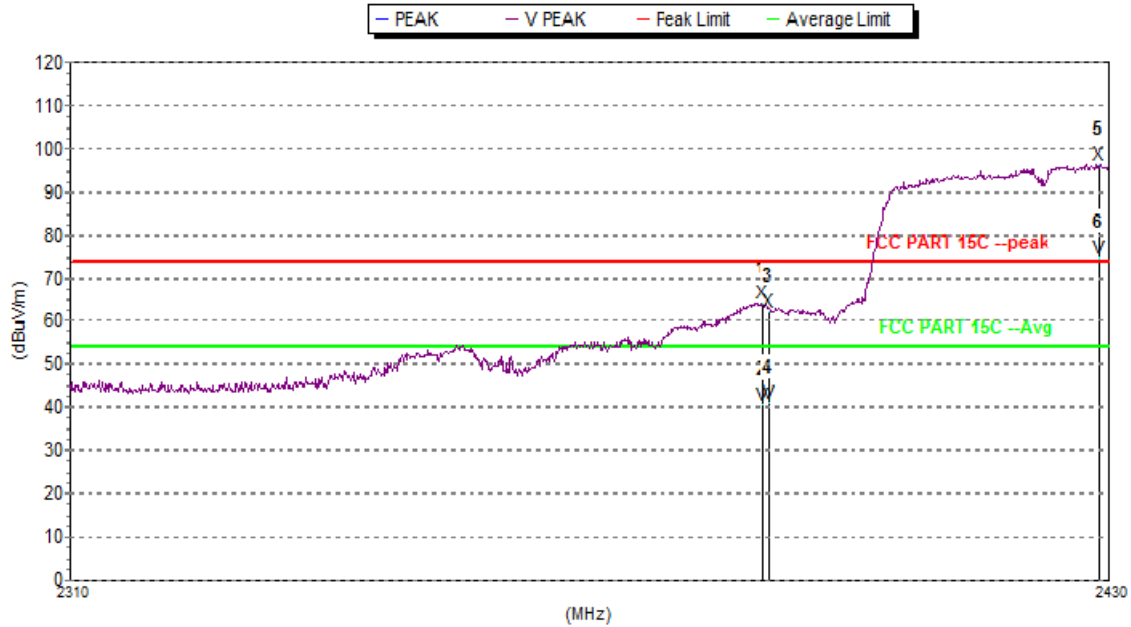
Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2389.200	61.3	74.0	12.7	32.5	0.0	-20.8	H
2	2390	60.0	74.0	14.0	32.5	0.0	-20.8	H
3 F	2424.360	93.5	74.0	-19.5	32.5	0.0	-21.4	H
Avg								
1	2389.200	37.4	54.0	16.6	32.5	0.0	-20.8	H
2	2390	36.5	54.0	17.5	32.5	0.0	-20.8	H
3 F	2424.360	71.1	54.0	-17.1	32.5	0.0	-21.4	H



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Report No.: SZEM150500255103

Page: 123 of 127



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1	2389.320	64.4	74.0	9.6	32.5	0.0	-20.8	V
2	2390	62.4	74.0	11.6	32.5	0.0	-20.8	V
3 F	2428.800	96.4	74.0	-22.4	32.5	0.0	-21.3	V
Avg								
1	2389.320	40.6	54.0	13.4	32.5	0.0	-20.8	V
2	2390	40.8	54.0	13.2	32.5	0.0	-20.8	V
3 F	2428.800	74.6	54.0	-20.6	32.5	0.0	-21.3	V

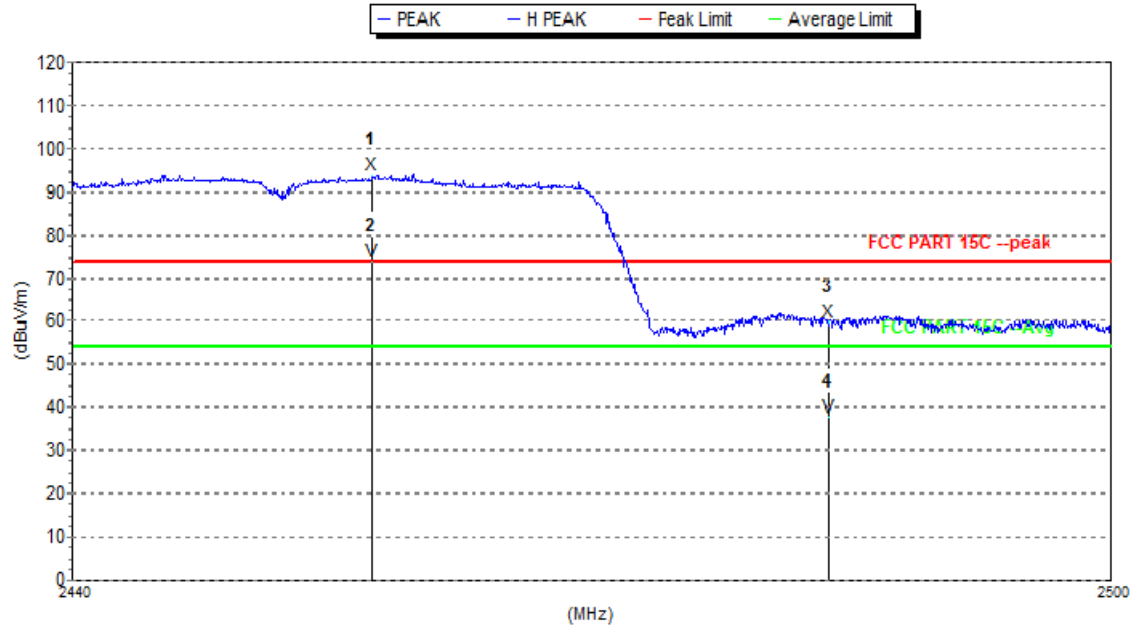
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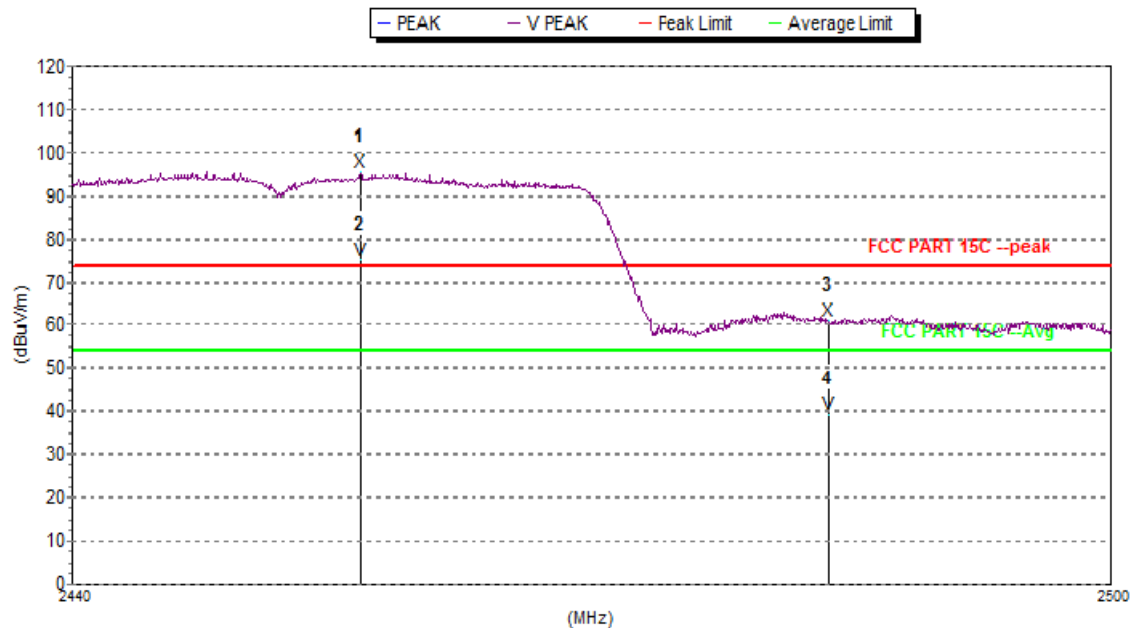
Report No.: SZEM150500255103

Page: 124 of 127



Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2457.220	94.0	74.0	-20.0	32.5	0.0	-20.8	H
2	2483.5	59.8	74.0	14.2	32.5	0.0	-20.5	H
Avg								
1 F	2457.220	73.7	54.0	-19.7	32.5	0.0	-20.8	--
2	2483.5	37.8	54.0	16.2	32.5	0.0	-20.5	H

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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Pol.
Peak:								
1 F	2456.560	95.4	74.0	-21.4	32.5	0.0	-20.8	V
2	2483.5	61.1	74.0	12.9	32.5	0.0	-20.5	V
Avg								
1 F	2456.560	75.0	54.0	-21.0	32.5	0.0	-20.8	--
2	2483.5	39.3	54.0	14.7	32.5	0.0	-20.5	V

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 Test Setup

Test model No.: A5007

7.1 Radiated Spurious Emission



7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1505002551HR.