

**FCC 15.247
2.4 GHz Report**

for

Contec Co., Ltd.

3-9-31, Himesato, Nishiyodogawa-ku, Osaka,
555-0025, Japan

Brand : CONTEC
**Product Name : IEEE802.11n/a/b/g Wireless LAN
Access Point Board**
Model Name : FXE3000-US
FCC ID : PQRFXE3000-US

TABLE OF CONTENTS

Description	Page
TEST REPORT CERTIFICATION	4
1. REPORT HISTORY.....	5
2. SUMMARY OF TEST RESULTS	6
3. GENERAL INFORMATION	7
3.1. Description of EUT	7
3.2. EUT Specifications Assessed in Current Report.....	8
3.3. Antenna Information.....	9
3.4. Data Rate Relative to Output Power.....	10
3.5. Test Configuration.....	11
3.6. Tested Supporting System List.....	13
3.7. Setup Configuration	13
3.8. Operating Condition of EUT	13
3.9. Description of Test Facility	14
3.10. Measurement Uncertainty	14
4. MEASUREMENT EQUIPMENT LIST.....	15
4.1. Conducted Emission Measurement.....	15
4.2. Radiated Emission Measurement.....	15
4.3. RF Conducted Measurement.....	15
5. CONDUCTED EMISSION MEASUREMENT.....	16
5.1. Block Diagram of Test Setup	16
5.2. Power Line Conducted Emission Limit	16
5.3. Test Procedure	16
5.4. Conducted Emission Measurement Results	17
6. RADIATED EMISSION MEASUREMENT	19
6.1. Block Diagram of Test Setup	19
6.2. Radiated Emission Limits	21
6.3. Test Procedure	22
6.4. Measurement Result Explanation	23
6.5. Test Results.....	23
7. 6dB BANDWIDTH MEASUREMENT	108
7.1. Block Diagram of Test Setup	108
7.2. Specification Limits	108
7.3. Test Procedure	108
7.4. Test Results.....	108
8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT	109
8.1. Block Diagram of Test Setup	109
8.2. Specification Limits	109
8.3. Test Procedure	109
8.4. Test Results.....	109
9. EMISSION LIMITATIONS MEASUREMENT	110
9.1. Block Diagram of Test Setup	110
9.2. Specification Limits	110

9.3. Test Procedure	110
9.4. Test Results	111
10. POWER SPECTRAL DENSITY	112
10.1. Block Diagram of Test Setup	112
10.2. Specification Limits	112
10.3. Test Procedure	112
10.4. Test Results	112
11. DEVIATION TO TEST SPECIFICATIONS.....	113

APPENDIX A TEST PHOTOGRAPHS
APPENDIX B TEST PLOTS

TEST REPORT CERTIFICATION

Applicant : Contec Co., Ltd.
Manufacture : Contec Co., Ltd.
Product Name : IEEE802.11n/a/b/g Wireless LAN Access Point Board
Model No. : FXE3000-US
Serial No. : N/A
Brand : CONTEC

Applicable Standards:

FCC Rules and Regulations Part 15 Subpart C:2015
ANSI C63.10:2013
KDB 558074 D01 DTS Meas Guidance v03r05

AUDIX Technology Corp. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report. **AUDIX Technology Corp.** does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens and samples.

Date of Test: 2016. 03. 22 ~ 24

Date of Report: 2016. 04. 07

Producer: Sabrina Wang
(Sabrina Wang/Administrator)

Signatory: Jarwei Wang
(Jarwei Wang/Section Manager)

1. REPORT HISTORY

Edition No.	Date of Rev.	Revision Summary	Report No.
0	2016. 04. 07	Original Report.	EM-F160206

2. SUMMARY OF TEST RESULTS

Rule	Description	Results
15.207	Conducted Emission	PASS
15.247(d)/15.205	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	6dB Bandwidth	PASS
15.247(b)(3)	Maximum Peak Output	PASS
15.247(d)	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	Peak Power Spectral Density	PASS
15.203	Antenna Requirement	PASS

3. GENERAL INFORMATION

3.1. Description of EUT

Product	IEEE802.11n/a/b/g Wireless LAN Access Point Board																		
Model Number	FXE3000-US																		
Serial Number	N/A																		
Brand Name	CONTEC																		
Applicant	Contec Co., Ltd. 3-9-31, Himesato, Nishiyodogawa-ku, Osaka, 555-0025, Japan																		
Manufacture	Contec Co., Ltd. 3-9-31, Himesato, Nishiyodogawa-ku, Osaka, 555-0025, Japan																		
RF Features	802.11a/b/g/n																		
Transmit Type	<table border="1"><thead><tr><th colspan="2">2.4 GHz</th></tr></thead><tbody><tr><td>802.11b</td><td>1T1R</td></tr><tr><td>802.11g</td><td>1T1R</td></tr><tr><td>802.11n-HT20</td><td>2T2R</td></tr><tr><td>802.11n-HT40</td><td>2T2R</td></tr></tbody></table> <table border="1"><thead><tr><th colspan="2">UNII Bands</th></tr></thead><tbody><tr><td>802.11a</td><td>1T1R</td></tr><tr><td>802.11n-HT20</td><td>2T2R</td></tr><tr><td>802.11n-HT40</td><td>2T2R</td></tr></tbody></table>	2.4 GHz		802.11b	1T1R	802.11g	1T1R	802.11n-HT20	2T2R	802.11n-HT40	2T2R	UNII Bands		802.11a	1T1R	802.11n-HT20	2T2R	802.11n-HT40	2T2R
2.4 GHz																			
802.11b	1T1R																		
802.11g	1T1R																		
802.11n-HT20	2T2R																		
802.11n-HT40	2T2R																		
UNII Bands																			
802.11a	1T1R																		
802.11n-HT20	2T2R																		
802.11n-HT40	2T2R																		
Date of Receipt of Sample	2016. 03. 11																		

3.2. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2462	11	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		11	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				MCS0~15
802.11n-HT40	2422-2452	7		

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

3.3. Antenna Information

2.4G Antenna							
No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)		Directional Gain (dBi)
					Chain 0	Chain 1	
1	MR-1700-W	Azure Solutions, Inc.	Low Profile Vertical	1700 to 2500	4	4	7.01 ^{Note1}
2	ANTDP-048A	SANSEI ELECTRIC CO., LTD	Dipole	2400 to 2500	2.14	2.14	5.15 ^{Note2}
3	ACM3-5036-A1-CC-S (FX-ANT-A8)	INPAQ TECHNOLOGY CO., LTD	Chip (ANT3, ANT4)	2400 to 2500	3.0	3.0	6.01 ^{Note3}
4	ACM3-5036-A1-CC-S (Integrated Antenna)	INPAQ TECHNOLOGY CO., LTD	Chip (ANT1, ANT2)	2400 to 2500	3.0	3.0	6.01 ^{Note3}

Note 1. Directional gain = $10 \log[(10^{4.0/20} + 10^{4.0/20})^2 / 2] = 7.01 \text{dBi}$
 Note 2. Directional gain = $10 \log[(10^{2.14/20} + 10^{2.14/20})^2 / 2] = 5.15 \text{dBi}$
 Note 3. Directional gain = $10 \log[(10^{3.0/20} + 10^{3.0/20})^2 / 2] = 6.01 \text{dBi}$

5G Antenna							
No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)		Directional Gain (dBi)
					Chain 0	Chain 1	
1	MR-6000	Azure Solutions, Inc.	Low Profile Vertical	4900 to 6000	4	4	7.01 ^{Note1}
2	ANTDP-048A	SANSEI ELECTRIC CO., LTD	Dipole	5100 to 5825	2.14	2.14	5.15 ^{Note2}
3	ACM3-5036-A1-CC-S (FX-ANT-A8)	INPAQ TECHNOLOGY CO., LTD	Chip (ANT3, ANT4)	5000 to 6000	3.3	3.3	6.31 ^{Note.3}
4	ACM3-5036-A1-CC-S (Integrated Antenna)	INPAQ TECHNOLOGY CO., LTD	Chip (ANT1, ANT2)	5000 to 6000	3.3	3.3	6.31 ^{Note3}

Note 1. Directional gain = $10 \log[(10^{4.0/20} + 10^{4.0/20})^2 / 2] = 7.01 \text{dBi}$
 Note 2. Directional gain = $10 \log[(10^{2.14/20} + 10^{2.14/20})^2 / 2] = 5.15 \text{dBi}$
 Note 3. Directional gain = $10 \log[(10^{3.3/20} + 10^{3.3/20})^2 / 2] = 6.31 \text{dBi}$

3.4. Data Rate Relative to Output Power

802.11b							
Channel	Modulation		Date Rate (Mbps)	Power (dBm)			
1	DBPSK		1	21.51			
1	DQPSK		2	21.48			
1	CCK		5.5	21.43			
1	CCK		11	21.36			
802.11g							
Channel	Modulation		Date Rate (Mbps)	Power (dBm)			
1	BPSK		6	18.28			
1	BPSK		9	18.24			
1	QPSK		12	18.21			
1	QPSK		18	18.16			
1	16-QAM		24	18.10			
1	16-QAM		36	18.03			
1	64-QAM		48	17.95			
1	64-QAM		54	17.87			
802.11n-HT20				802.11n-HT40			
Channel	Modulation	Date Rate	Power (dBm)	Channel	Modulation	Date Rate	Power (dBm)
1	BPSK	MCS0	18.10	3	BPSK	MCS0	15.82
1	QPSK	MCS1	18.04	3	QPSK	MCS1	15.74
1	QPSK	MCS2	18.01	3	QPSK	MCS2	15.71
1	16-QAM	MCS3	18.02	3	16-QAM	MCS3	15.76
1	16-QAM	MCS4	17.98	3	16-QAM	MCS4	15.74
1	64-QAM	MCS5	17.97	3	64-QAM	MCS5	15.73
1	64-QAM	MCS6	17.96	3	64-QAM	MCS6	15.68
1	64-QAM	MCS7	17.82	3	64-QAM	MCS7	15.54
1	BPSK	MCS8	18.17	3	BPSK	MCS8	15.95
1	QPSK	MCS9	18.14	3	QPSK	MCS9	15.90
1	QPSK	MCS10	18.09	3	QPSK	MCS10	15.86
1	16-QAM	MCS11	18.06	3	16-QAM	MCS11	15.81
1	16-QAM	MCS12	18.01	3	16-QAM	MCS12	15.77
1	64-QAM	MCS13	17.97	3	64-QAM	MCS13	15.72
1	64-QAM	MCS14	17.92	3	64-QAM	MCS14	15.64
1	64-QAM	MCS15	17.88	3	64-QAM	MCS15	15.61

Note: Above results are assessed in average power.

3.5. Test Configuration

Mode	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
802.11b	1	N/A	N/A
802.11g	1	N/A	N/A
802.11n-HT20	1	N/A	N/A
802.11n-HT40	1	N/A	N/A

Note: When duty cycle is less than 98% (0.98) that duty cycle factor $10\log(1/x)$ is needed to add in conducted test items measured in average detector.

AC Conduction	
Test Case	Normal operation

Item	Mode	Data Rate	Test Channel	
Radiated Test Case	Radiated Band Edge <small>Note1</small>	802.11b	1Mbps	1/11
		802.11g	6Mbps	1/11
		802.11n-HT20	MCS8	1/11
		802.11n-HT40	MCS8	3/9
	Radiated Spurious Emission <small>Note1 & 2</small>	802.11b	1Mbps	1/6/11
		802.11g	6Mbps	1/6/11
802.11n-HT40		MCS8	3/6/9	
Conducted Test Case <small>Note3</small>	6dB Bandwidth	802.11b	1Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS8	1/6/11
		802.11n-HT40	MCS8	3/6/9
	Peak Power Spectral Density	802.11b	1Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS8	1/6/11
		802.11n-HT40	MCS8	3/6/9
	Peak Output Power	802.11b	1Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS8	1/6/11
		802.11n-HT40	MCS8	3/6/9
	Band Edge	802.11b	1Mbps	1/11
		802.11g	6Mbps	1/11
		802.11n-HT20	MCS8	1/11
		802.11n-HT40	MCS8	3/9
	Spurious Emission	802.11b	1Mbps	1/6/11
		802.11g	6Mbps	1/6/11
		802.11n-HT20	MCS8	1/6/11
		802.11n-HT40	MCS8	3/6/9

Note 1:

Mobile Device

Portable Device, and 3 axis were assessed. The worst scenario for Radiated Spurious Emission as follow:

- Lie
- Side
- Stand

Note 2: Low, mid, and high channels were measured, only the worst channel of each modulation was presented in this report.

Note 3: We performed testing of the highest Antenna Type ACM3-5036-A1-CC-S (Integrated Antenna).

3.6. Tested Supporting System List

3.6.1. Support Peripheral Unit

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Notebook PC	ASUS	X5502E	N/A	PPD-AR5B225

3.6.2. Cable Lists

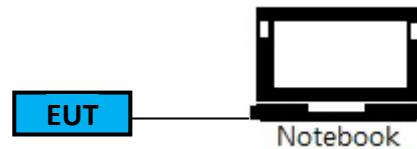
No.	Cable Description Of The Above Support Units
1.	LAN Cable: Unshielded, Detachable, 1.5m AC Adapter: Enerironix, M/N: EXA1208UH AC Power Cord: Unshielded, Detachable, 1.8m DC Power Cord: Unshielded, Undetachable, 1.8m

3.7. Setup Configuration

3.7.1. EUT Configuration for Power Line & Radiated Emission



3.7.2. EUT Configuration for Conducted Test Items



3.8. Operating Condition of EUT

Test program "artgui" is used for enabling EUT WLAN function under continues transmitting and choosing data rate/ channel.

3.9. Description of Test Facility

Test Firm Name	:	AUDIX Technology Corporation EMC Department No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan
Test Location & Facility	:	No. 8 Shielded Room & Semi Anechoic Chamber & Fully Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724

3.10. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	±3.50dB
Radiation Test (Distance: 3m)	30MHz~1000MHz	± 3.68dB
	Above 1GHz	± 5.82dB

Remark : Uncertainty = $k_{uc}(y)$

Test Item	Uncertainty
6dB Bandwidth	± 0.05kHz
Maximum peak output power	± 0.33dB
Power spectral density	± 0.13dB
Conducted Emission Limitations	± 0.13dB

4. MEASUREMENT EQUIPMENT LIST

4.1. Conducted Emission Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Test Receiver	R&S	ESR3	101774	2016. 02. 04	1 Year
2.	A.M.N.	R&S	ENV4200	825358/003	2015. 04. 07	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-855-9	2015. 12. 23	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	100354	2016. 01. 17	1 Year
5.	Test Software	Audix	e3	V.6.120424	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

4.2.1. Frequency Range 9kHz~1000MHz

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2015. 09. 14	1 Year
2.	Test Receiver	R & S	ESCS30	100338	2015. 06. 24	1 Year
3.	Amplifier	HP	8447D	2944A06305	2016. 02. 23	1 Year
4.	Bilog Antenna	CHASE	CBL6112D	33821	2016. 01. 30	1 Year
5.	Loop Antenna	R&S	HFH2-Z2	891847/27	2015. 12. 24	1 Year
6.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.2.2. Frequency Range Above 1GHz

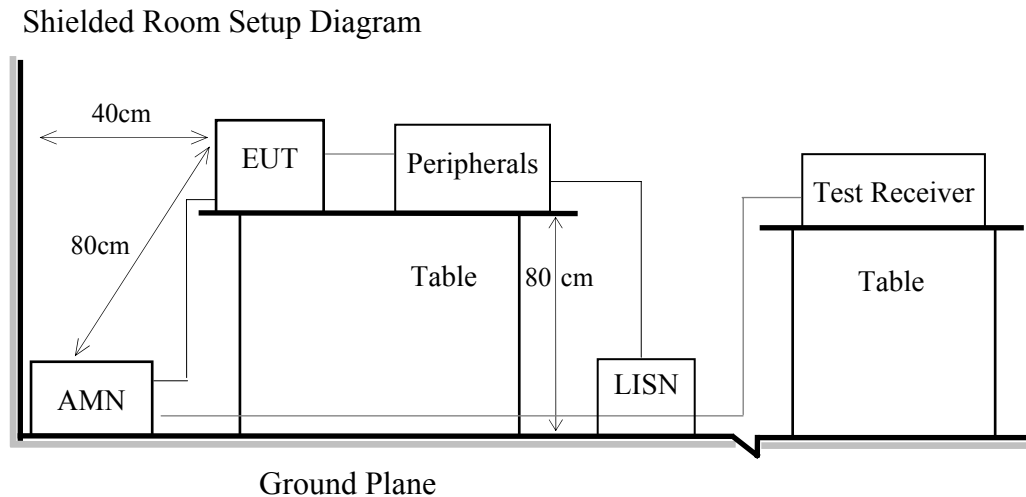
Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	2015. 08. 20	1 Year
2.	Amplifier	Sonoma	310N	187161	2015. 06. 17	1 Year
3.	Microwave Amplifier	Keysight	83051A	MY53010042	2015. 08. 13	1 Year
4.	2.4GHz Notch Filter	K&L	7NSL10-244 1.5E130.5-00	1	2015. 07. 28	1 Year
5.	Horn Antenna	ETS-Lindgren	3117	00135902	2016. 03. 05	1 Year
6.	Horn Antenna	EMCO	3116	2653	2015. 10. 20	1 Year
7.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

4.3. RF Conducted Measurement

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9030A-526	MY53310269	2015. 11. 28	1 Year
2.	Power Meter	Anritsu	ML2495A	1145008	2015. 10. 23	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2015. 10. 23	1 Year

5. CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Power Line Conducted Emission Limit

Frequency	Conducted Limit	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the measurement using the average detector is not required.

2.: The lower limit applies to the band edges.

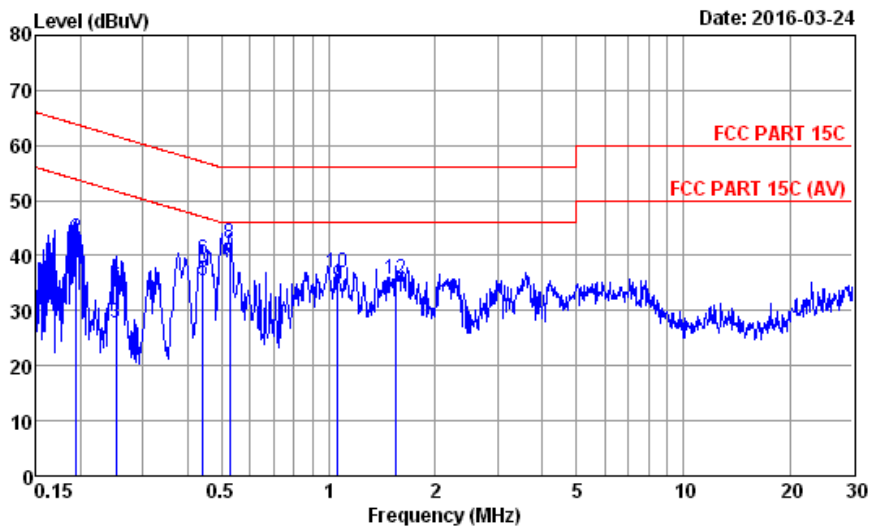
5.3. Test Procedure

- 5.3.1. To set up the EUT as indicated in ANSI C 63.10. The EUT was placed on the table which has 80 cm height to the ground and 40 cm distance to the conducting wall.
- 5.3.2. Power supplier of the EUT was connected to the AC mains through an Artificial Mains Network (A.M.N.).
- 5.3.3. The AC power supplies to all peripheral devices must be provided through line impedance stabilization network (L.I.S.N.)
- 5.3.4. Checking frequency range from 150 kHz to 30 MHz and record the emission which does not have 20 dB below limit.

5.4. Conducted Emission Measurement Results

PASSED.

Test Date	2015/03/24	Temp./Hum.	22°C/49%
Test Voltage	AC 120V, 60Hz		

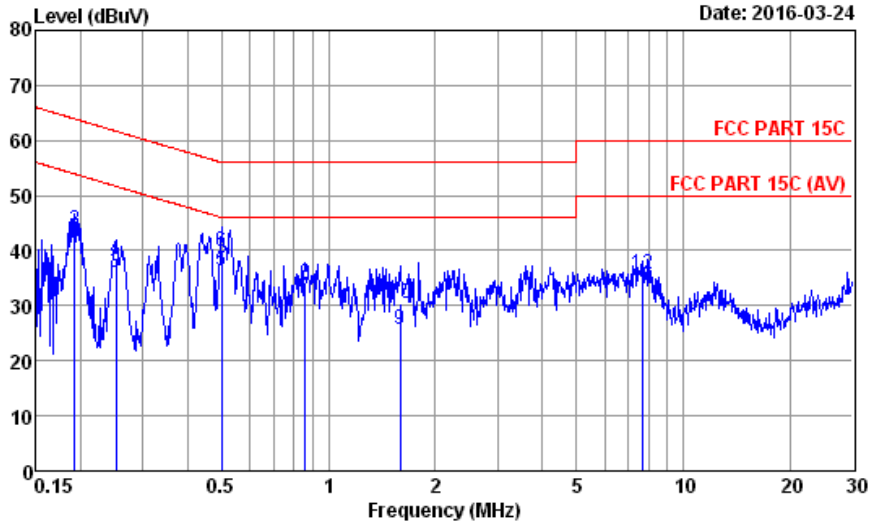


Site no. : No.8 Shielded Room Data no. : 2
 Condition : ENV4200 100169 Phase : NEUTRAL
 Limit : FCC PART 15C
 Env. / Ins. : 22°C / 49% ESR (1774) Engineer : Tim
 EUT : FXE3000-US
 Power Rating : 120V/60Hz
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.194	11.27	0.03	9.85	12.80	33.95	53.84	19.89	Average
2	0.194	11.27	0.03	9.85	21.96	43.11	63.84	20.73	QP
3	0.252	11.17	0.03	9.86	6.64	27.70	51.69	23.99	Average
4	0.252	11.17	0.03	9.86	14.93	35.99	61.69	25.70	QP
5	0.442	10.99	0.03	9.85	14.42	35.29	47.03	11.74	Average
6	0.442	10.99	0.03	9.85	18.26	39.13	57.03	17.90	QP
7	0.527	10.98	0.03	9.86	17.79	38.66	46.00	7.34	Average
8	0.527	10.98	0.03	9.86	21.39	42.26	56.00	13.74	QP
9	1.061	10.95	0.05	9.85	13.74	34.59	46.00	11.41	Average
10	1.061	10.95	0.05	9.85	15.98	36.83	56.00	19.17	QP
11	1.552	10.98	0.06	9.86	11.60	32.50	46.00	13.50	Average
12	1.552	10.98	0.06	9.86	14.84	35.74	56.00	20.26	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

Test Date	2015/03/24	Temp./Hum.	22°C/49%
Test Voltage	AC 120V, 60Hz		



Site no. : No.8 Shielded Room Data no. : 1
 Condition : ENV4200 100169 Phase : LINE
 Limit : FCC PART 15C
 Env. / Ins. : 22°C / 49% ESR (1774) Engineer : Tim
 EUT : FXE3000-US
 Power Rating : 120V/60Hz
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBμV)	Emission Level (dBμV)	Limits (dBμV)	Margin (dB)	Remark
1	0.192	10.69	0.03	9.85	19.09	39.66	53.93	14.27	Average
2	0.192	10.69	0.03	9.85	23.11	43.68	63.93	20.25	QP
3	0.252	10.64	0.03	9.86	15.41	35.94	51.69	15.75	Average
4	0.252	10.64	0.03	9.86	17.95	38.48	61.69	23.21	QP
5	0.500	10.55	0.03	9.86	15.84	36.28	46.00	9.72	Average
6	0.500	10.55	0.03	9.86	19.52	39.96	56.00	16.04	QP
7	0.862	10.54	0.05	9.86	10.82	31.27	46.00	14.73	Average
8	0.862	10.54	0.05	9.86	13.64	34.09	56.00	21.91	QP
9	1.593	10.56	0.06	9.86	5.32	25.80	46.00	20.20	Average
10	1.593	10.56	0.06	9.86	9.93	30.41	56.00	25.59	QP
11	7.687	11.06	0.13	9.88	11.41	32.48	50.00	17.52	Average
12	7.687	11.06	0.13	9.88	14.63	35.70	60.00	24.30	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Pulse Att. + Reading.

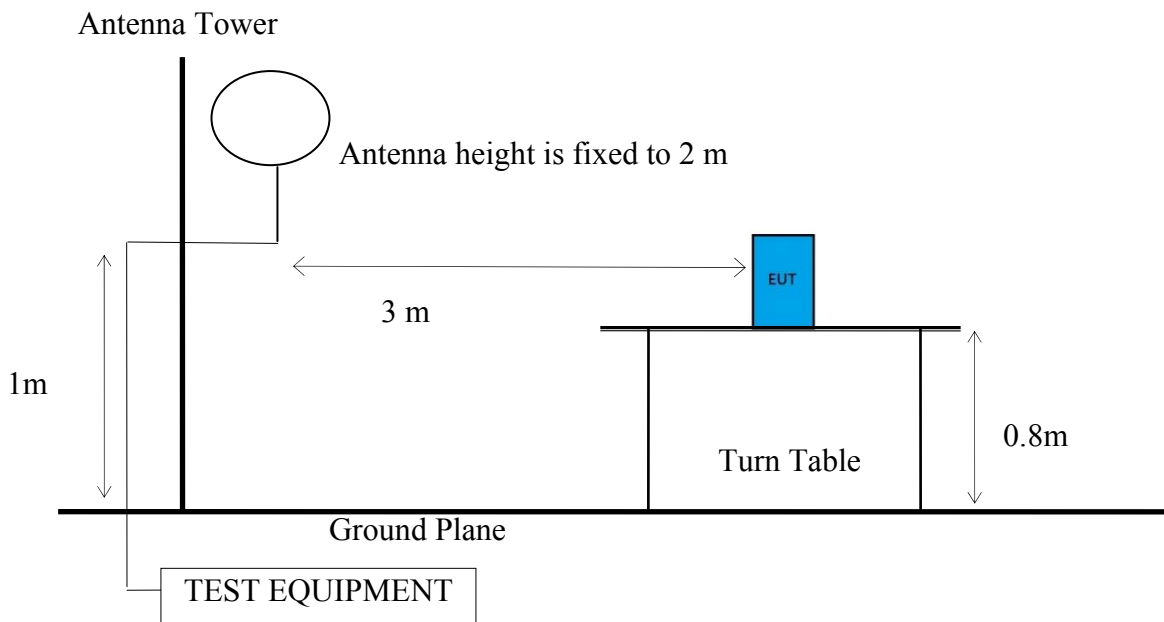
6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup

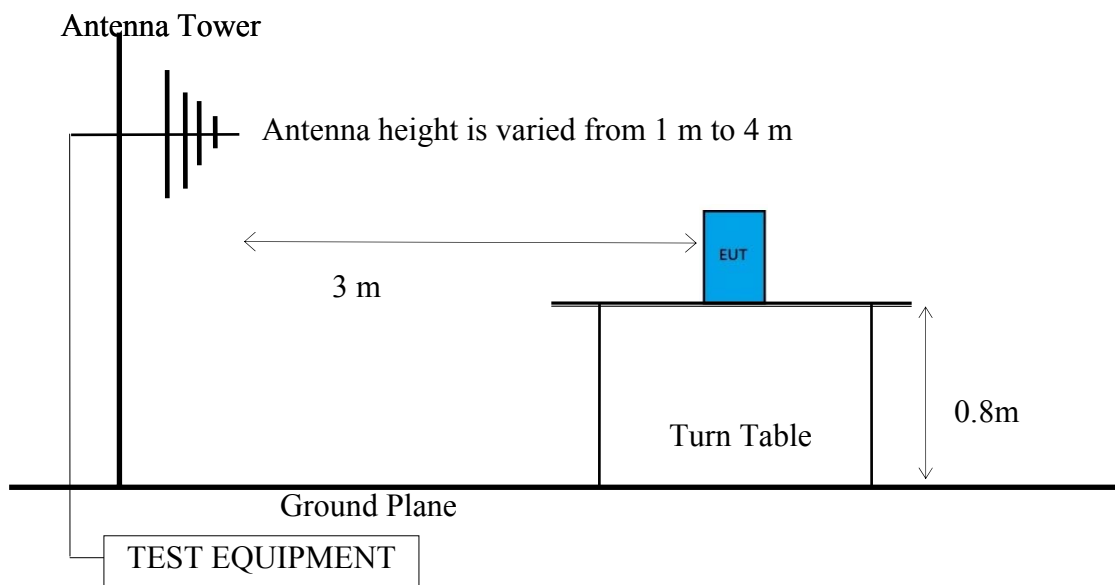
6.1.1. Block Diagram of connection between EUT and simulators

Indicated as section 3.7

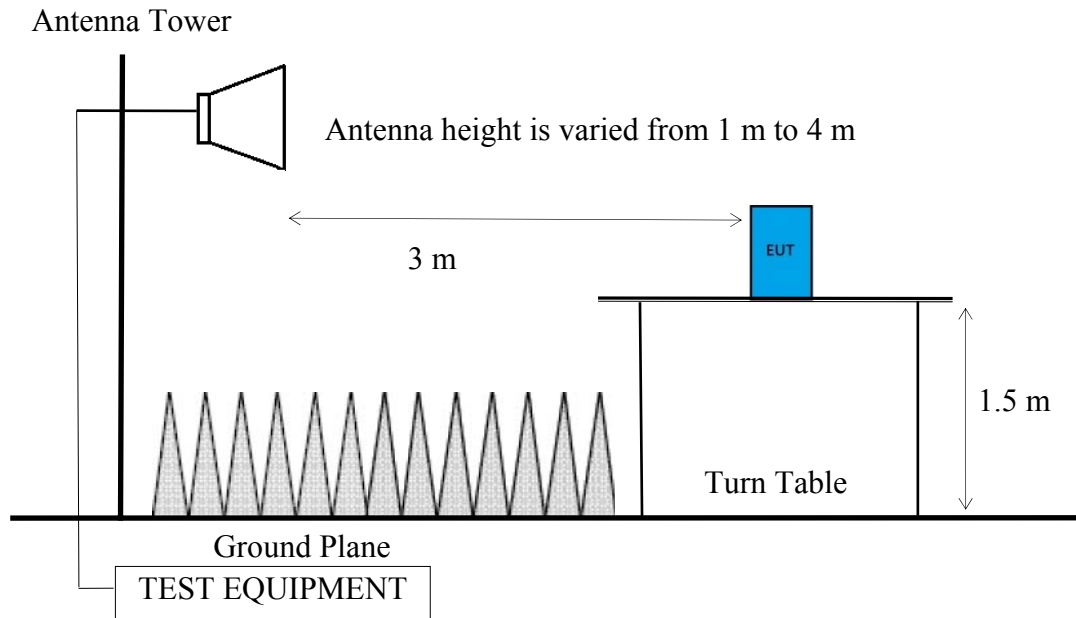
6.1.2. Semi Anechoic Chamber (3m) Setup Diagram for 9kHz-30MHz



6.1.3. Semi Anechoic Chamber (3m) Setup Diagram for 30-1000 MHz



6.1.4. Fully Anechoic Chamber (3m) Setup Diagram for above 1GHz



6.2. Radiated Emission Limits

In any 100kHz bandwidth outside the frequency band, the radio frequency power produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified as below.

Frequency (MHz)	Distance (m)	Limits	
		dB μ V/m	μ V/m
0.009 - 0.490	300	67.6	2400/kHz
0.490 - 1.705	30	87.6	24000/kHz
1.705 - 30	30	29.5	30
30 - 88	3	40.0	100
88- 216	3	43.5	150
216- 960	3	46.0	200
Above 960	3	54.0	500
Above 1000	3	74.0 dB μ V/m (Peak) 54.0 dB μ V/m (Average)	

Remark : (1) dB μ V/m = 20 log (μ V/m)

- (2) The tighter limit applies to the edge between two frequency bands.
- (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- (4) Fundamental and emission fall within operation band are exempted from this section.
- (5) Pursuant to ANSI C63.10: 6.6.4.3, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

6.3. Test Procedure

Frequency Range 9kHz~30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

- (1) RBW = 9kHz with peak and average detector.
- (2) Detector: average and peak (9kHz-490kHz)

Q.P. (490kHz-30MHz)

Frequency Range 30MHz ~ 40GHz:

The EUT setup on the turn find table which has 80 cm (for 30-1000 MHz) and 1.5m (for above 1GHz) height to the ground. The turn table rotated 360 degrees and antenna varied from 1 m to 4 m to find the maximum emission level. Both horizontal and vertical polarization are required. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10-2013 regulation.

Frequency below 1 GHz:

Spectrum Analyzer is used for pre-testing with following setting:

- (1) RBW = 120KHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the Q.P. detector is not required. Otherwise using Q.P. for finally measurement.

Frequency above 1GHz to 10th harmonic:

Peak Detector:

- (1) RBW = 1MHz
- (2) VBW $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Sweep time = auto.
- (5) Trace mode = max hold.
- (6) Allow sweeps to continue until the trace stabilizes.
- (7) When peak-detected value is lower than limit that the measurement using the average detector is not required. Otherwise using average for finally measurement.

Average Detector: **Option 1:**

- (1) RBW = 1MHz
 (2) VBW \geq 1/ T.

Modulation Type	T (ms)	1/ T (kHz)	VBW Setting
802.11b	N/A	N/A	10 Hz
802.11g	N/A	N/A	10 Hz
802.11n-HT20	N/A	N/A	10 Hz
802.11n-HT40	N/A	N/A	10 Hz

N/A: 1/ T is not implemented when duty cycle presented in section 3.5 is \geq 98 %.

- (1) Detector = Peak.
 (2) Sweep time = auto.
 (3) Trace mode = max hold.
 (4) Allow sweeps to continue until the trace stabilizes.

 Option 2:

Average Emission Level= Peak Emission Level+ D.C.C.F.

6.4. Measurement Result Explanation

- Peak Emission Level=Antenna Factor + Cable Loss + Meter Reading
 Average Emission Level=Antenna Factor + Cable Loss + Meter Reading
 Average Emission Level= Peak Emission Level+ DCCF
 Duty Cycle Correction Factor (DCCF)= $20\log(TX_{on}/TX_{on+off})$ presented in section 3.5
 EPR= Peak Emission Level-95.2dB-2.14dB

6.5. Test Results

PASSED.

Test Date	2016/04/06	Temp./Hum.	23°C/53%
Test Voltage	DC 3.3V		

6.5.1. Emissions within Restricted Frequency Bands

6.5.1.1. Frequency 9kHz~30MHz

The emissions (9kHz~30MHz) not reported for there is no emission be found.

6.5.1.2. Frequency 30MHz~1000MHz

[Note: We performed testing of the highest Antenna Type]

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
108.57	11.55	3.29	20.00	34.84	43.50	8.66	Peak
143.49	11.00	3.55	20.28	34.83	43.50	8.67	Peak
330.70	13.93	4.99	26.60	45.52	46.00	0.48	Peak
600.36	18.32	6.50	11.59	36.41	46.00	9.59	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
33.88	16.49	2.41	20.30	39.20	40.00	0.80	Peak
143.49	11.00	3.55	21.33	35.88	43.50	7.62	Peak
334.58	14.05	5.04	16.23	35.32	46.00	10.68	Peak
600.36	18.32	6.50	12.36	37.18	46.00	8.82	Peak

Mode	802.11g	Frequency	TX 2437MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
108.57	11.55	3.29	19.73	34.57	43.50	8.93	Peak
143.49	11.00	3.55	20.89	35.44	43.50	8.06	Peak
326.82	13.84	4.95	26.30	45.09	46.00	0.91	Peak
600.36	18.32	6.50	11.42	36.24	46.00	9.76	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
34.85	16.00	2.43	19.70	38.13	40.00	1.87	Peak
141.55	11.14	3.53	21.83	36.50	43.50	7.00	Peak
333.61	14.02	5.03	16.09	35.14	46.00	10.86	Peak
600.36	18.32	6.50	12.14	36.96	46.00	9.04	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
108.57	11.55	3.29	20.71	35.55	43.50	7.95	Peak
333.61	14.02	5.03	25.38	44.43	46.00	1.57	Peak
600.36	18.32	6.50	11.30	36.12	46.00	9.88	Peak
900.09	20.58	7.54	10.32	38.44	46.00	7.56	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
33.88	16.49	2.41	19.19	38.09	40.00	1.91	Peak
143.49	11.00	3.55	22.20	36.75	43.50	6.75	Peak
333.61	14.02	5.03	12.14	31.19	46.00	14.81	Peak
600.36	18.32	6.50	12.01	36.83	46.00	9.17	Peak

Mode	802.11n-HT40	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
108.57	11.55	3.29	20.71	35.55	43.50	7.95	Peak
329.73	13.93	4.99	26.18	45.10	46.00	0.90	Peak
600.36	18.32	6.50	11.57	36.39	46.00	9.61	Peak
900.09	20.58	7.54	8.45	36.57	46.00	9.43	Peak

Antenna at Vertical Polarization

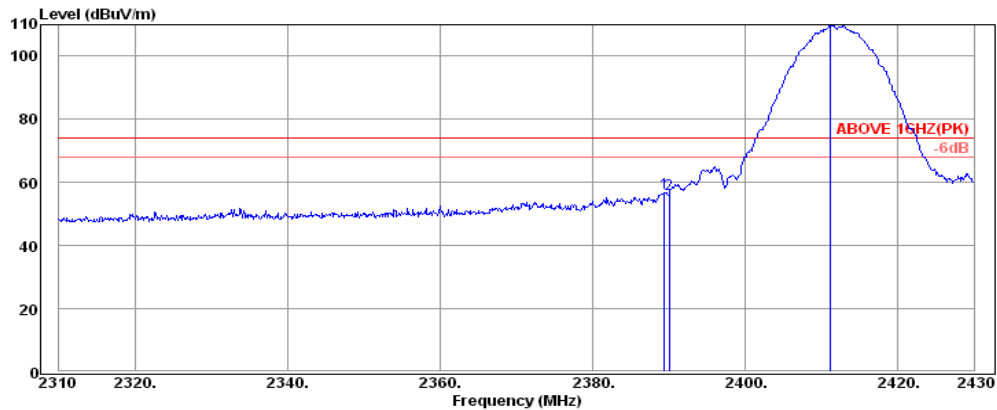
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
37.76	14.45	2.48	22.64	39.57	40.00	0.43	Peak
148.34	10.65	3.59	22.17	36.41	43.50	7.09	Peak
332.64	13.99	5.01	12.65	31.65	46.00	14.35	Peak
600.36	18.32	6.50	12.47	37.29	46.00	8.71	Peak

6.5.2. Frequency Above 1 GHz to 10th harmonics

Band Edge:

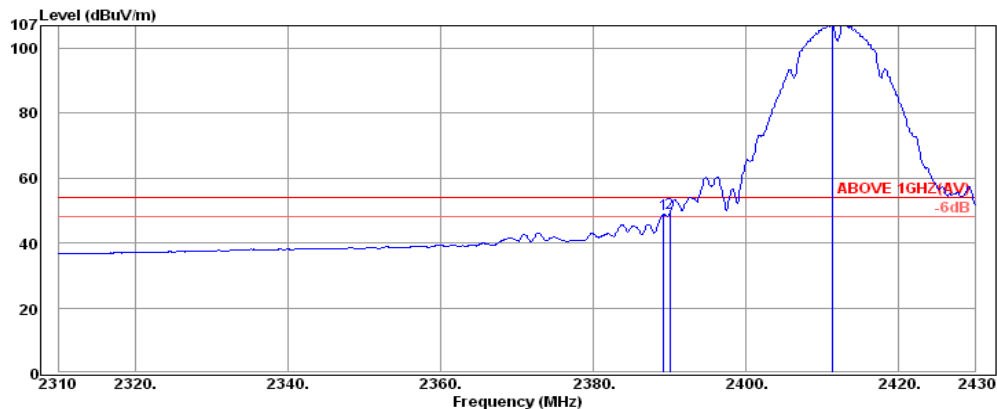
6.5.2.1. Antenna #1: ACM3-5036-A1-CC-S (Integrated Antenna)

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

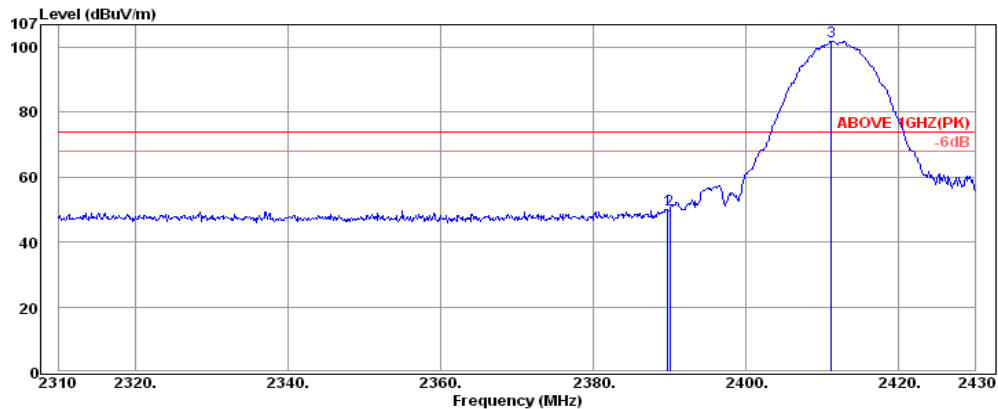
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.44	32.16	6.08	18.55	56.79	74.00	17.21	Peak
2390.04	32.16	6.08	18.18	56.42	74.00	17.58	Peak
2411.16	32.18	6.11	71.46	109.75	---	---	Peak



Antenna at Horizontal Polarization

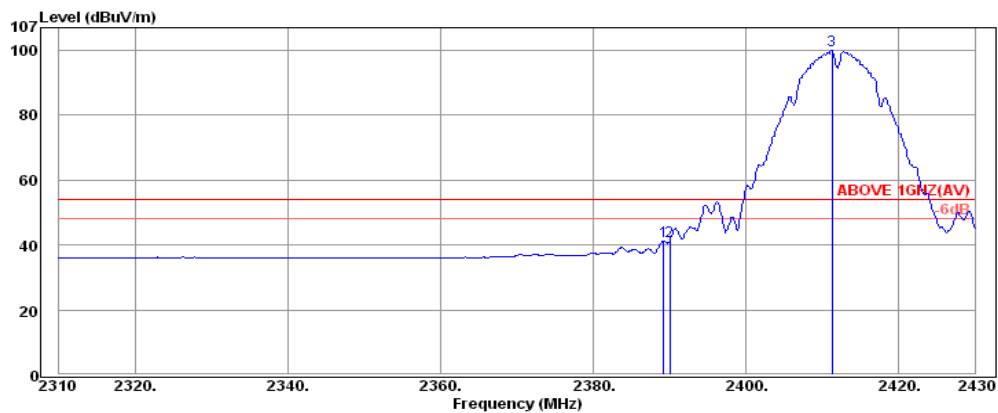
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	6.08	10.58	48.82	54.00	5.18	Average
2390.04	32.16	6.08	11.02	49.26	54.00	4.74	Average
2411.28	32.18	6.11	69.32	107.61	---	---	Average

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

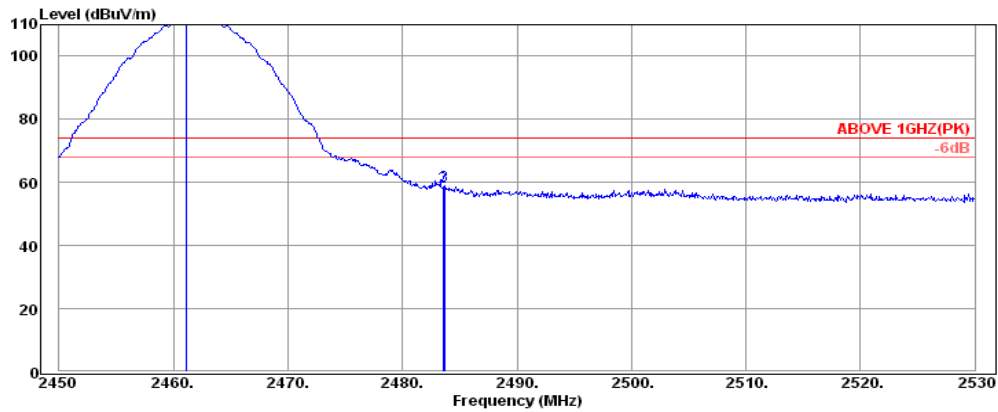
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	11.68	49.92	74.00	24.08	Peak
2390.04	32.16	6.08	11.73	49.97	74.00	24.03	Peak
2411.16	32.18	6.11	63.73	102.02	---	---	Peak



Antenna at Vertical Polarization

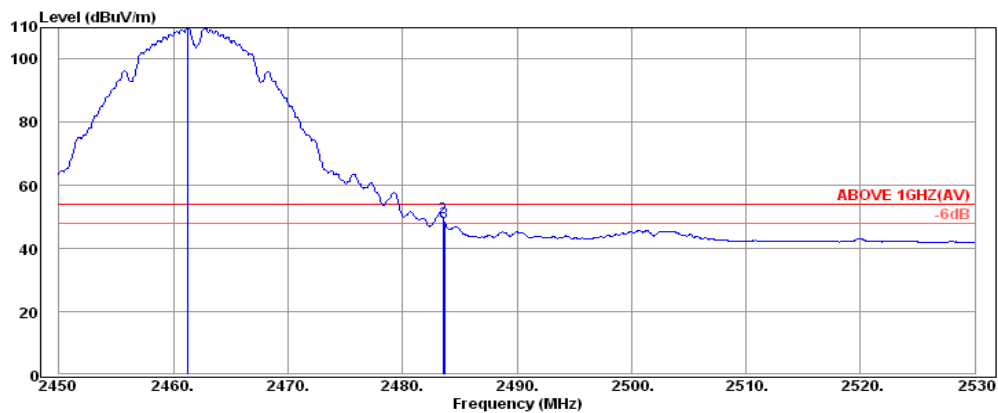
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	6.08	3.12	41.36	54.00	12.64	Average
2390.04	32.16	6.08	2.90	41.14	54.00	12.86	Average
2411.28	32.18	6.11	61.61	99.90	---	---	Average

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

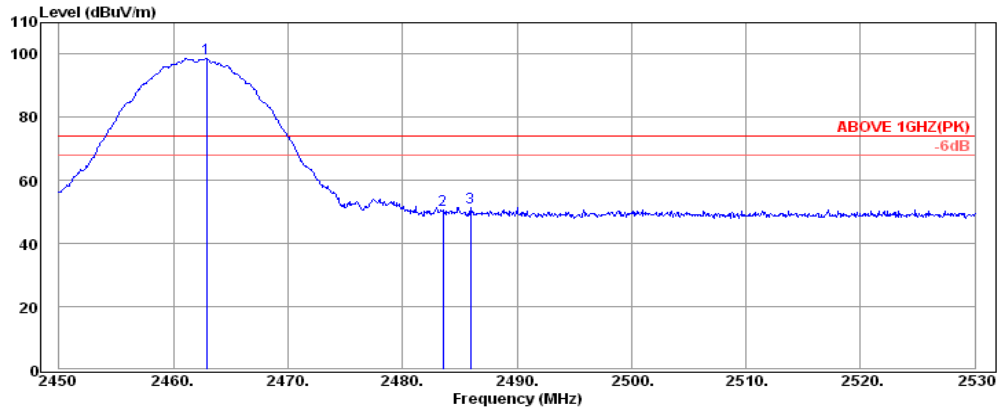
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.12	32.25	5.80	73.91	111.96	---	---	Peak
2483.52	32.28	5.82	20.60	58.70	74.00	15.30	Peak
2483.68	32.28	5.82	20.90	59.00	74.00	15.00	Peak



Antenna at Horizontal Polarization

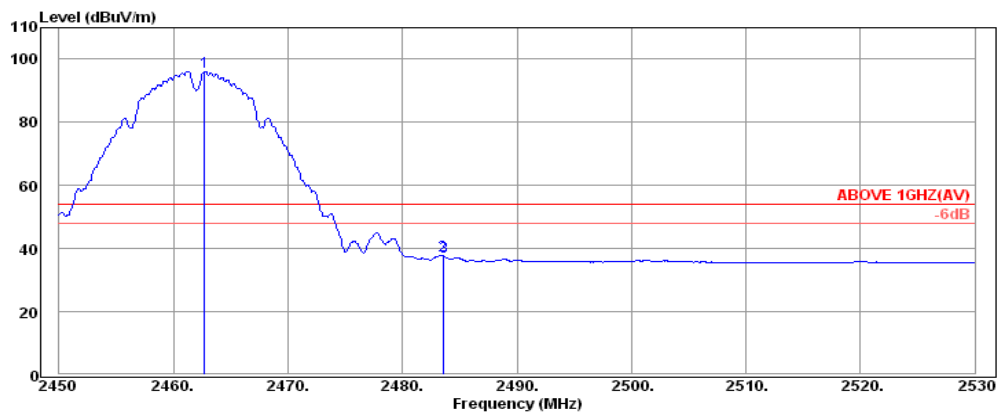
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	5.80	71.77	109.82	---	---	Average
2483.52	32.28	5.82	11.62	49.72	54.00	4.28	Average
2483.68	32.28	5.82	10.16	48.26	54.00	5.74	Average

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

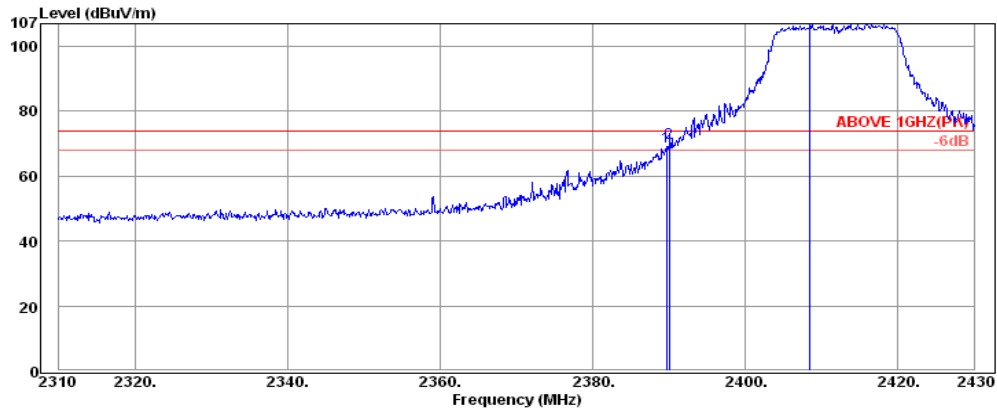
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.88	32.25	5.80	60.54	98.59	---	---	Peak
2483.52	32.28	5.82	12.43	50.53	74.00	23.47	Peak
2485.92	32.28	5.82	13.48	51.58	74.00	22.42	Peak



Antenna at Vertical Polarization

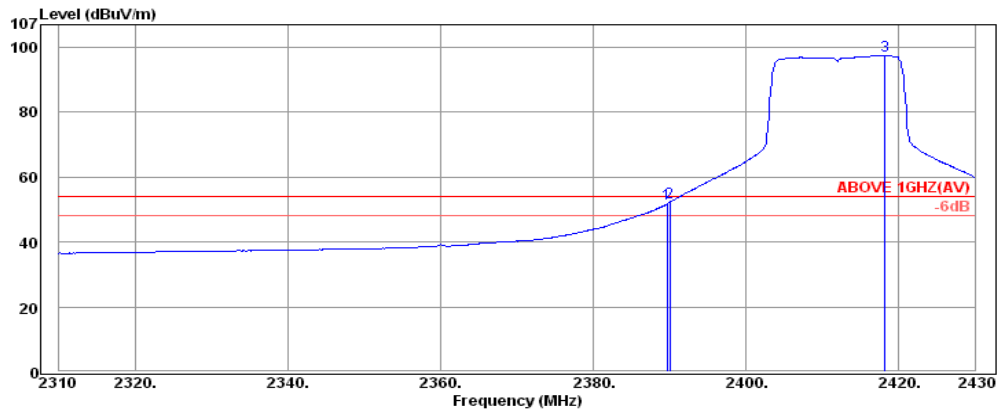
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.72	32.25	5.80	58.12	96.17	---	---	Average
2483.52	32.28	5.82	-0.48	37.62	54.00	16.38	Average
2483.60	32.28	5.82	-0.55	37.55	54.00	16.45	Average

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

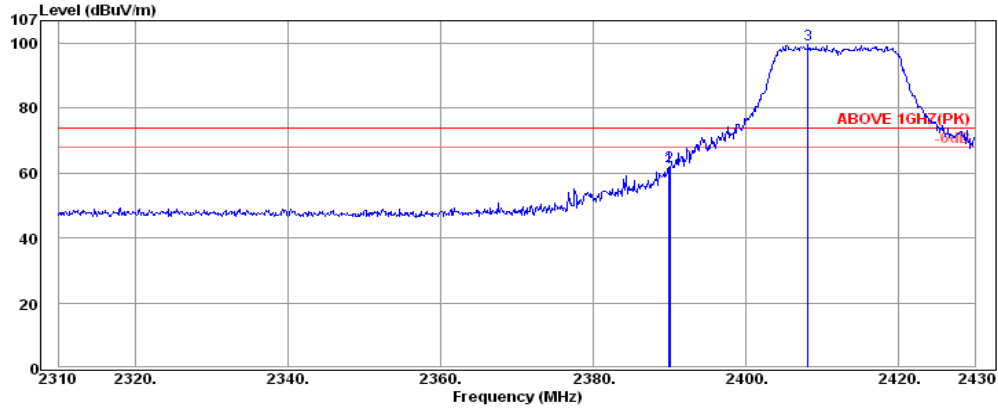
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.08	30.77	69.01	74.00	4.99	Peak
2390.04	32.16	6.08	31.90	70.14	74.00	3.86	Peak
2408.52	32.18	6.10	68.96	107.24	---	---	Peak



Antenna at Horizontal Polarization

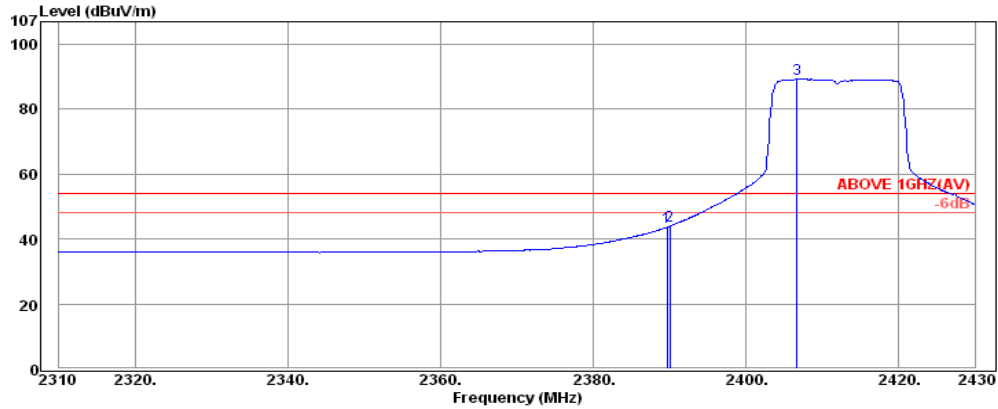
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.08	13.52	51.76	54.00	2.24	Average
2390.04	32.16	6.08	14.01	52.25	54.00	1.75	Average
2418.24	32.18	6.11	59.13	97.42	---	---	Average

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

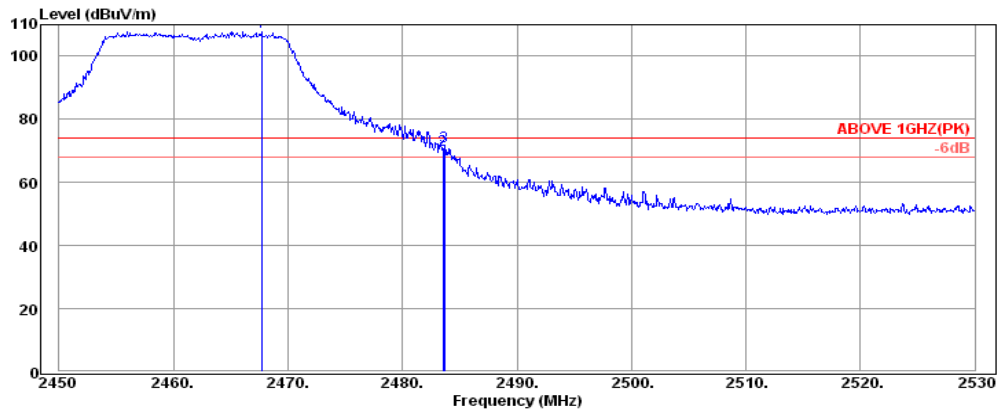
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	23.47	61.71	74.00	12.29	Peak
2390.04	32.16	6.08	23.86	62.10	74.00	11.90	Peak
2408.16	32.18	6.10	61.20	99.48	---	---	Peak



Antenna at Vertical Polarization

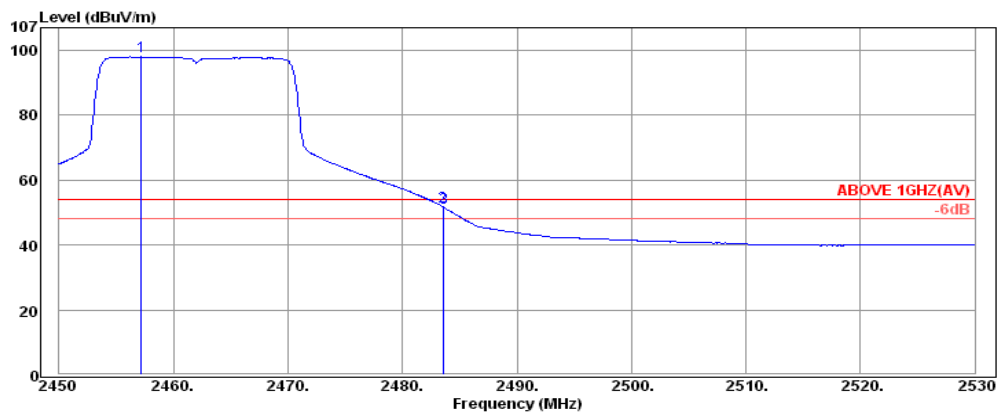
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.08	5.38	43.62	54.00	10.38	Average
2390.04	32.16	6.08	5.75	43.99	54.00	10.01	Average
2406.72	32.18	6.10	50.98	89.26	---	---	Average

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

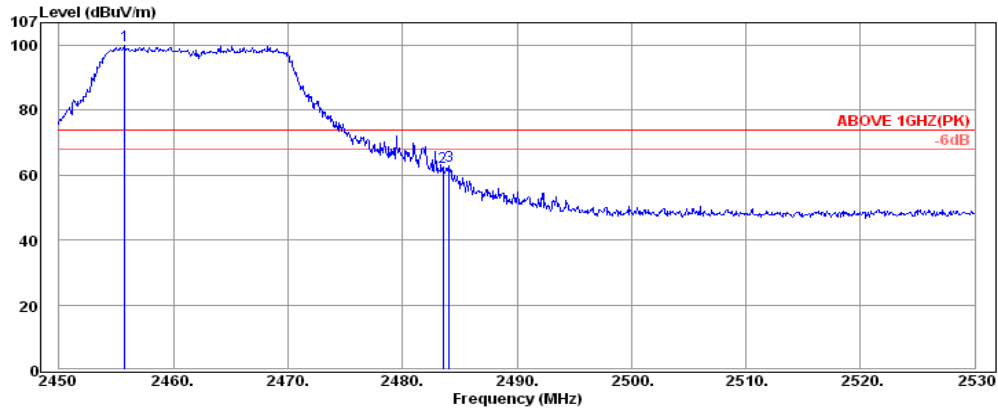
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.68	32.25	6.17	69.32	107.74	---	---	Peak
2483.52	32.28	6.19	31.96	70.43	74.00	3.57	Peak
2483.68	32.28	6.19	32.97	71.44	74.00	2.56	Peak



Antenna at Horizontal Polarization

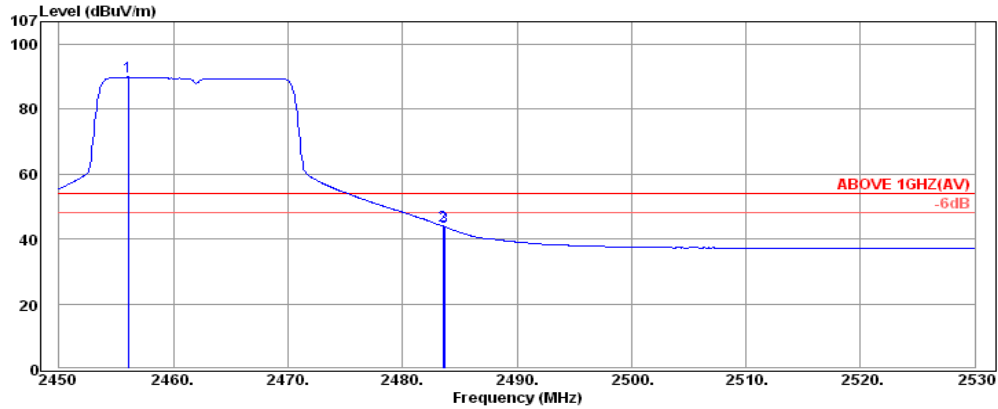
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2457.20	32.25	6.15	59.61	98.01	---	---	Average
2483.52	32.28	6.19	13.26	51.73	54.00	2.27	Average
2483.60	32.28	6.19	13.10	51.57	54.00	2.43	Average

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

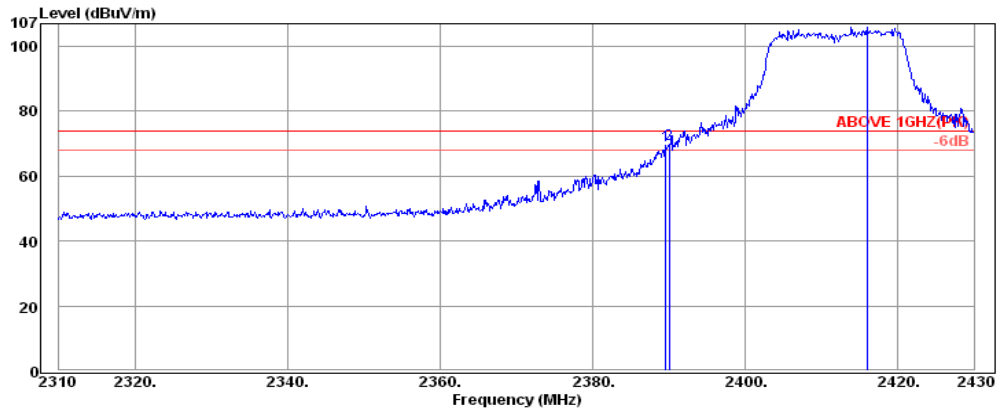
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2455.76	32.25	6.15	61.72	100.12	---	---	Peak
2483.52	32.28	6.19	24.22	62.69	74.00	11.31	Peak
2484.08	32.28	6.19	24.44	62.91	74.00	11.09	Peak



Antenna at Vertical Polarization

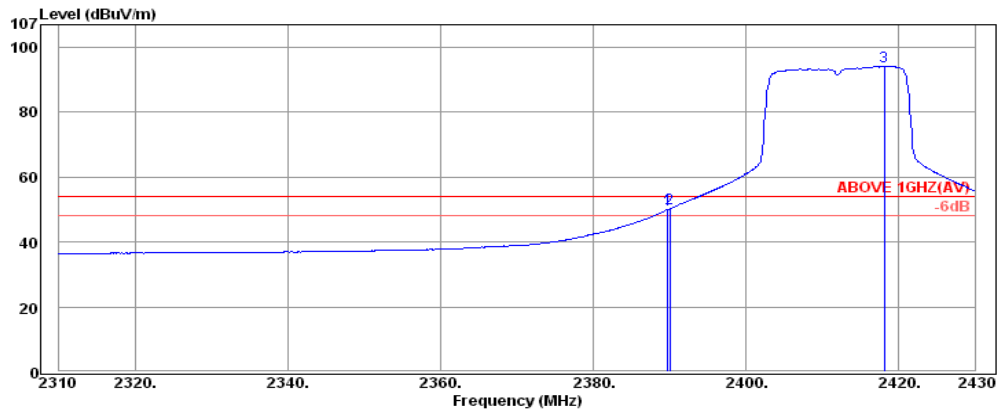
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.08	32.25	6.15	51.50	89.90	---	---	Average
2483.52	32.28	6.19	5.50	43.97	54.00	10.03	Average
2483.68	32.28	6.19	5.30	43.77	54.00	10.23	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

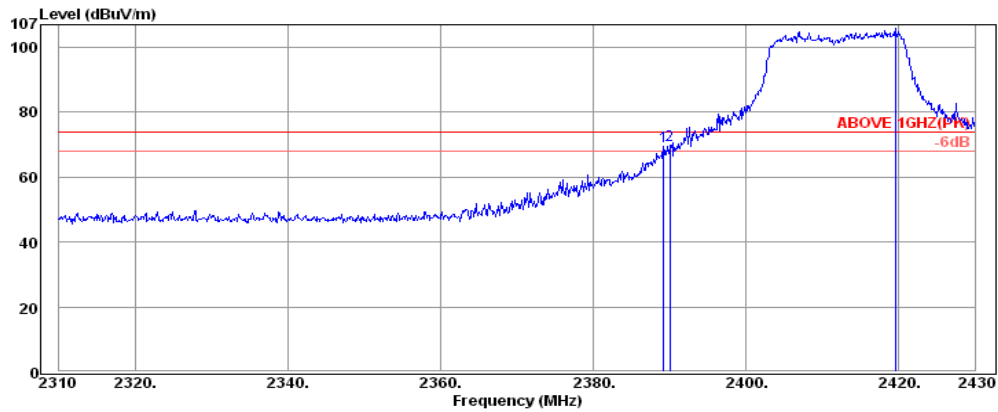
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.56	32.16	6.08	31.32	69.56	74.00	4.44	Peak
2390.04	32.16	6.08	31.71	69.95	74.00	4.05	Peak
2415.96	32.18	6.11	67.65	105.94	---	---	Peak



Antenna at Horizontal Polarization

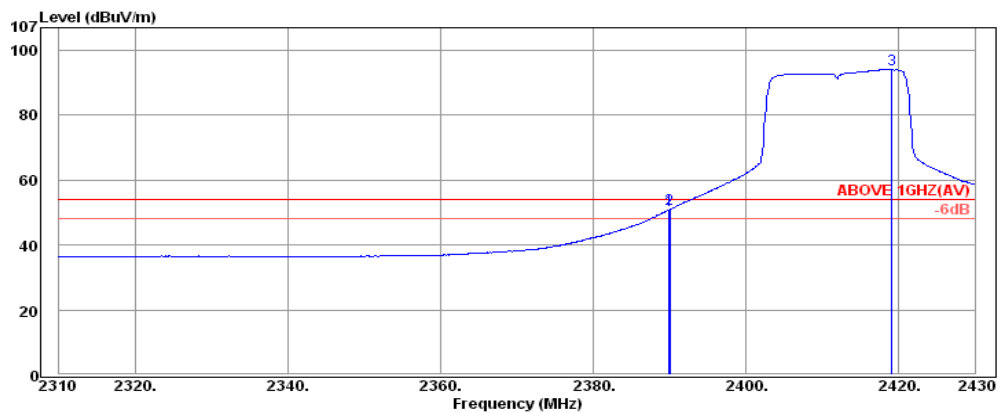
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	11.90	50.14	54.00	3.86	Average
2390.04	32.16	6.08	12.06	50.30	54.00	3.70	Average
2418.12	32.18	6.11	55.89	94.18	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

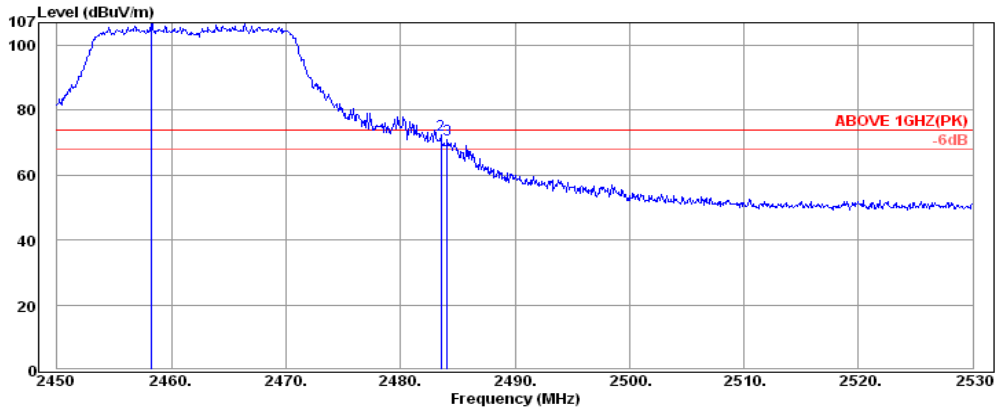
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	6.08	31.25	69.49	74.00	4.51	Peak
2390.04	32.16	6.08	31.78	70.02	74.00	3.98	Peak
2419.56	32.20	6.12	67.70	106.02	---	---	Peak



Antenna at Vertical Polarization

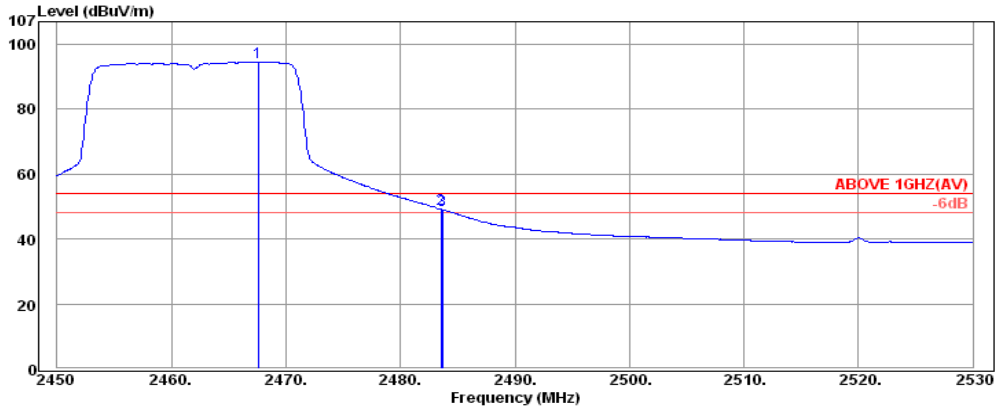
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	12.58	50.82	54.00	3.18	Average
2390.04	32.16	6.08	12.76	51.00	54.00	3.00	Average
2419.08	32.18	6.12	55.77	94.07	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

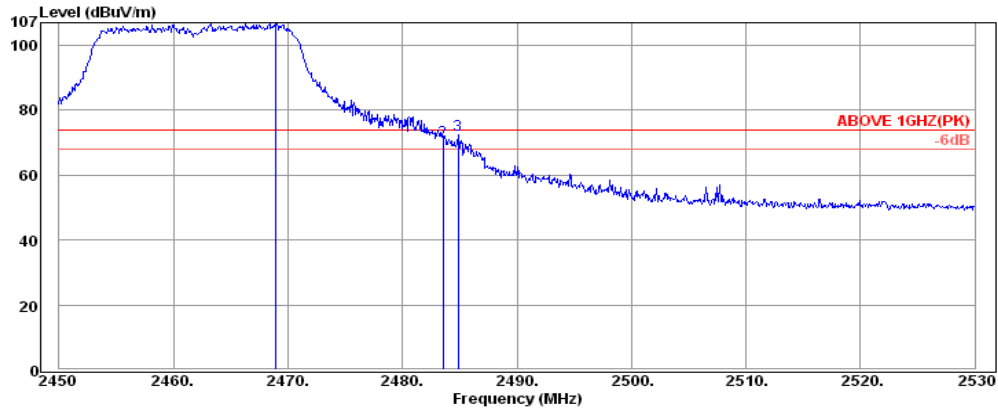
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.24	32.25	6.15	68.37	106.77	---	---	Peak
2483.52	32.28	6.19	34.15	72.62	74.00	1.38	Peak
2484.08	32.28	6.19	32.41	70.88	74.00	3.12	Peak



Antenna at Horizontal Polarization

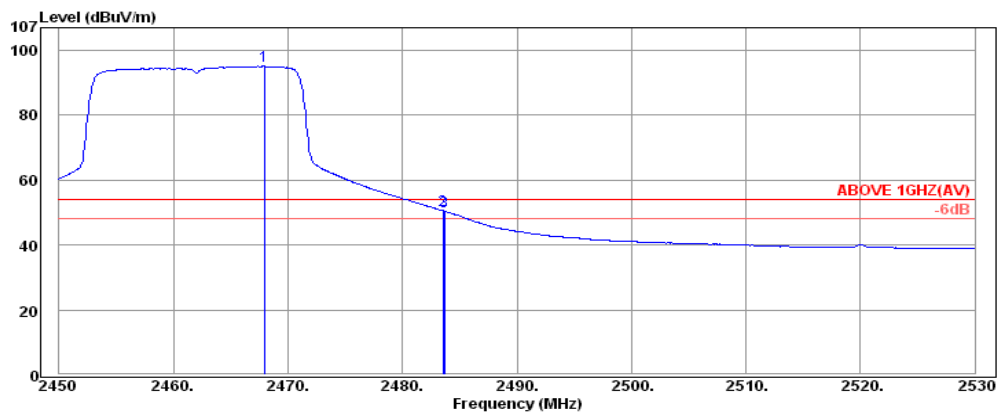
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.60	32.25	6.17	56.18	94.60	---	---	Average
2483.52	32.28	6.19	10.66	49.13	54.00	4.87	Average
2483.68	32.28	6.19	10.57	49.04	54.00	4.96	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

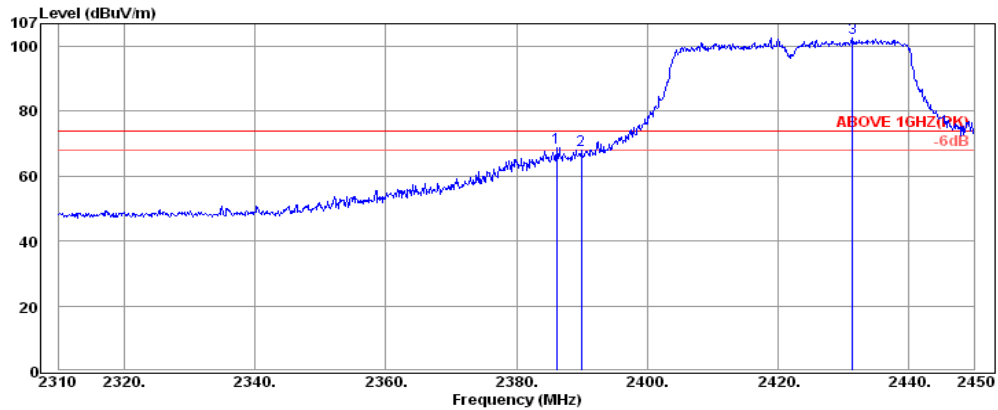
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.88	32.25	6.17	68.24	106.66	---	---	Peak
2483.52	32.28	6.19	32.16	70.63	74.00	3.37	Peak
2484.88	32.28	6.19	34.12	72.59	74.00	1.41	Peak



Antenna at Vertical Polarization

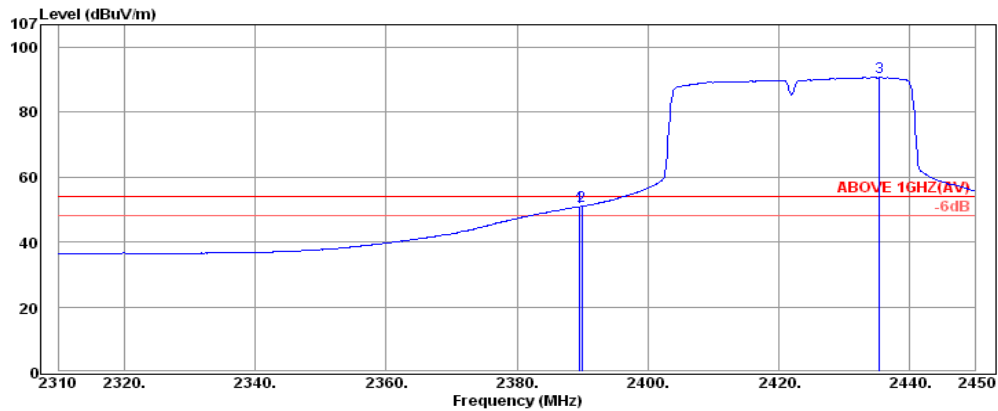
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.92	32.25	6.17	56.66	95.08	---	---	Average
2483.52	32.28	6.19	12.10	50.57	54.00	3.43	Average
2483.68	32.28	6.19	11.90	50.37	54.00	3.63	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

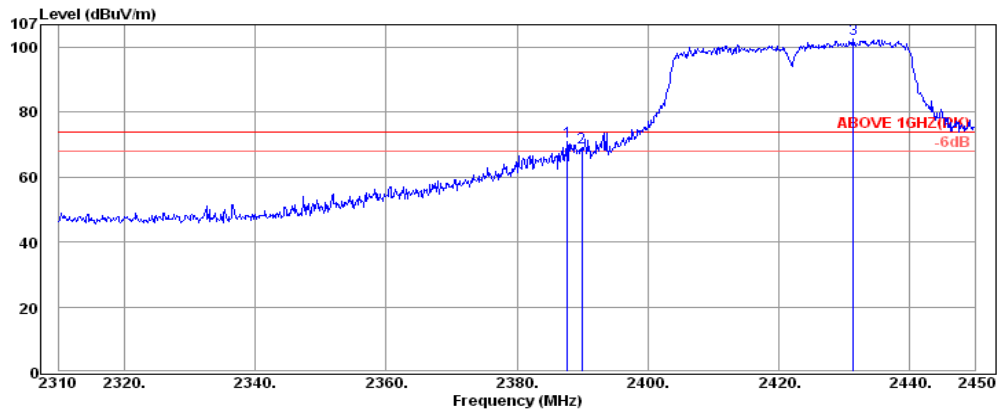
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.16	32.16	6.07	30.62	68.85	74.00	5.15	Peak
2389.94	32.16	6.08	29.85	68.09	74.00	5.91	Peak
2431.38	32.20	6.13	64.17	102.50	---	---	Peak



Antenna at Horizontal Polarization

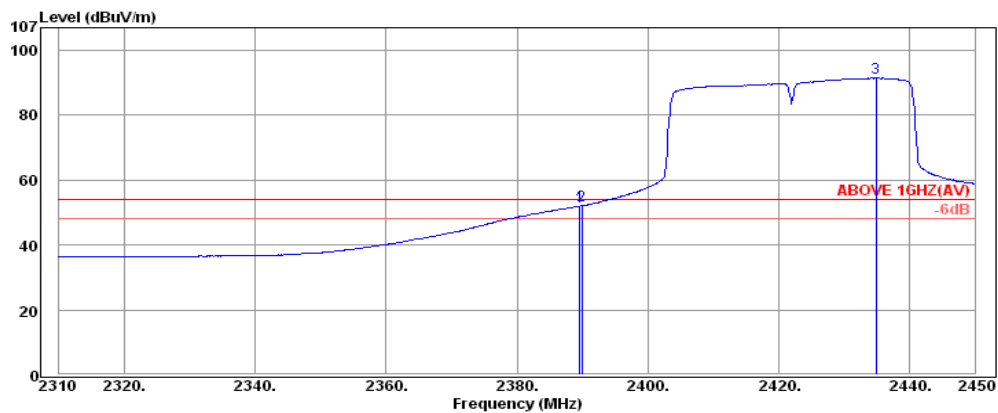
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.66	32.16	6.08	12.62	50.86	54.00	3.14	Average
2389.94	32.16	6.08	12.79	51.03	54.00	2.97	Average
2435.44	32.20	6.13	52.38	90.71	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

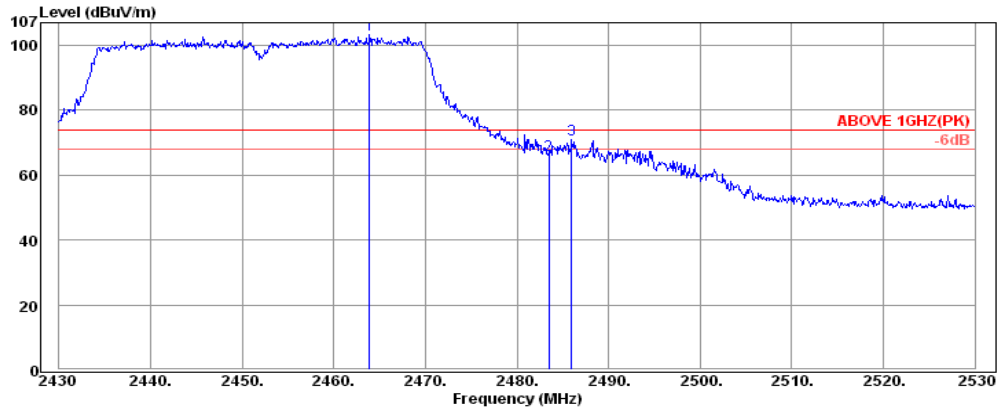
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.70	32.16	6.08	32.79	71.03	74.00	2.97	Peak
2389.94	32.16	6.08	30.75	68.99	74.00	5.01	Peak
2431.38	32.20	6.13	64.29	102.62	---	---	Peak



Antenna at Vertical Polarization

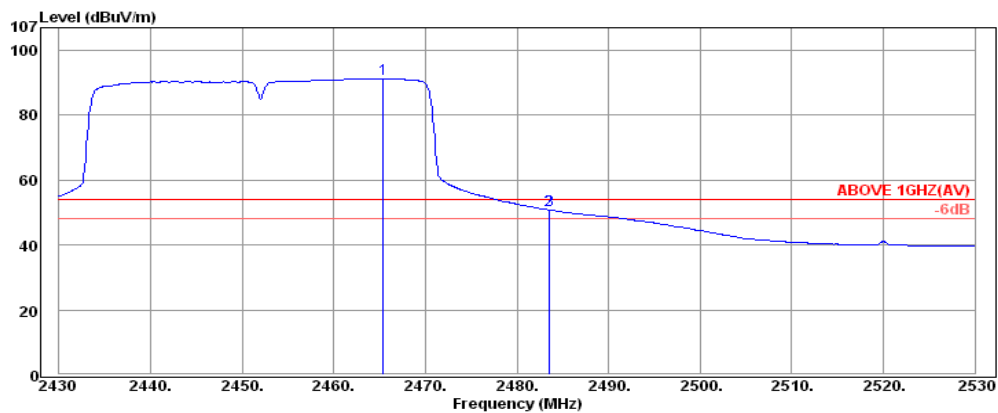
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.66	32.16	6.08	13.76	52.00	54.00	2.00	Average
2389.94	32.16	6.08	13.85	52.09	54.00	1.91	Average
2434.88	32.20	6.13	53.10	91.43	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

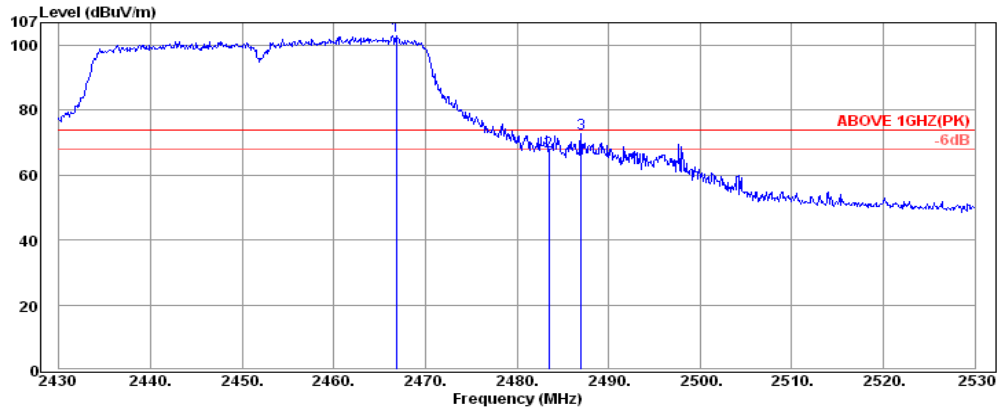
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.90	32.25	6.16	64.90	103.31	---	---	Peak
2483.50	32.28	6.19	27.72	66.19	74.00	7.81	Peak
2486.00	32.28	6.19	32.44	70.91	74.00	3.09	Peak



Antenna at Horizontal Polarization

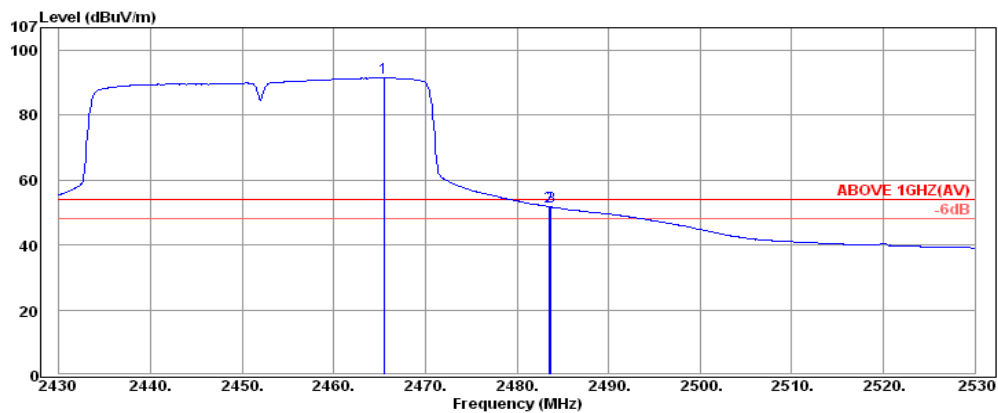
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2465.40	32.25	6.16	52.86	91.27	---	---	Average
2483.50	32.28	6.19	12.44	50.91	54.00	3.09	Average
2483.60	32.28	6.19	12.41	50.88	54.00	3.12	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2466.80	32.25	6.17	64.60	103.02	---	---	Peak
2483.50	32.28	6.19	28.84	67.31	74.00	6.69	Peak
2487.00	32.28	6.19	34.37	72.84	74.00	1.16	Peak

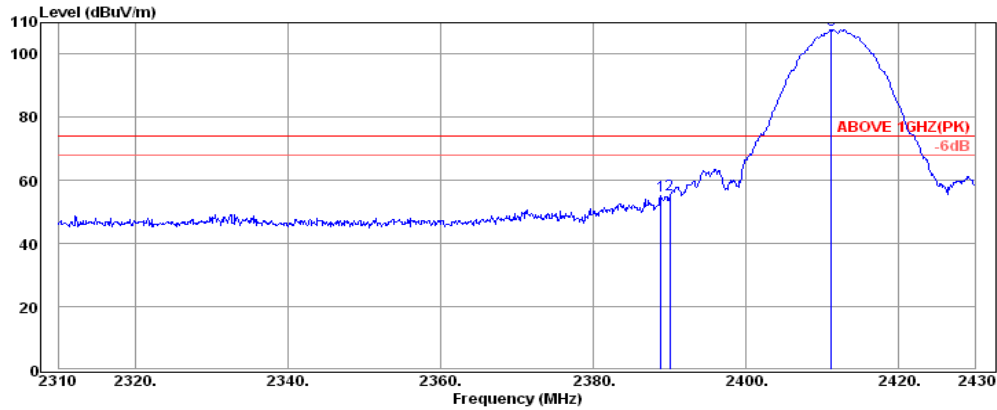


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2465.50	32.25	6.16	53.09	91.50	---	---	Average
2483.50	32.28	6.19	13.30	51.77	54.00	2.23	Average
2483.70	32.28	6.19	13.30	51.77	54.00	2.23	Average

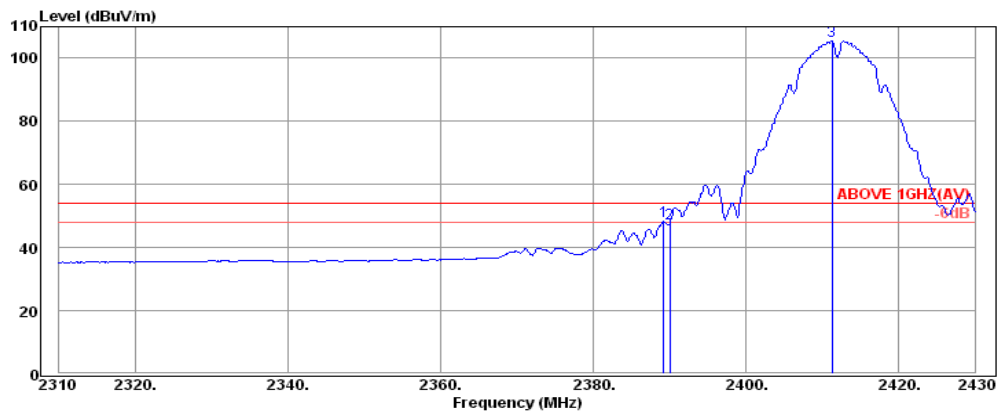
6.5.2.2. Antenna #2: ACM3-5036-A1-CC-S (FX-ANT-A8)

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

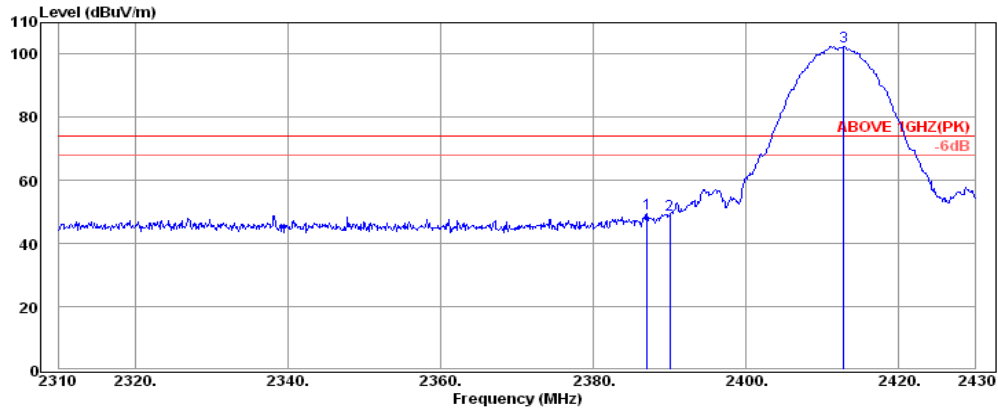
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.84	32.16	5.72	17.16	55.04	74.00	18.96	Peak
2390.04	32.16	5.72	17.75	55.63	74.00	18.37	Peak
2411.16	32.18	5.74	69.87	107.79	---	---	Peak



Antenna at Horizontal Polarization

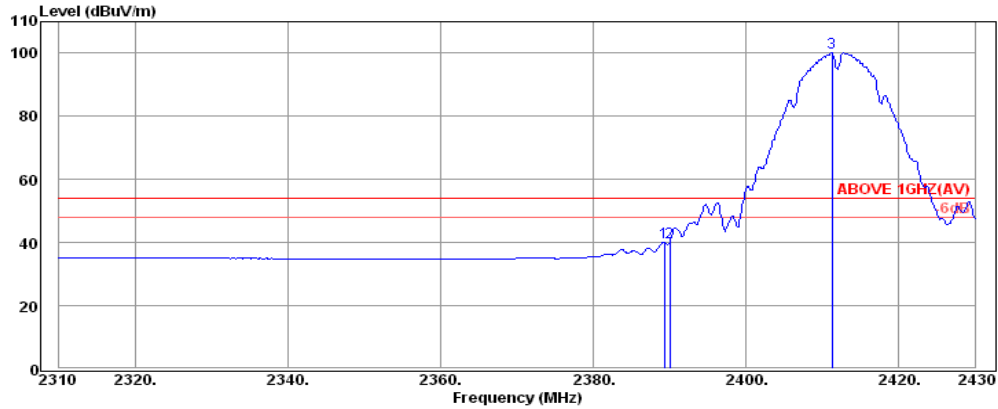
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	5.72	10.32	48.20	54.00	5.80	Average
2390.04	32.16	5.72	9.91	47.79	54.00	6.21	Average
2411.28	32.18	5.74	67.65	105.57	---	---	Average

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

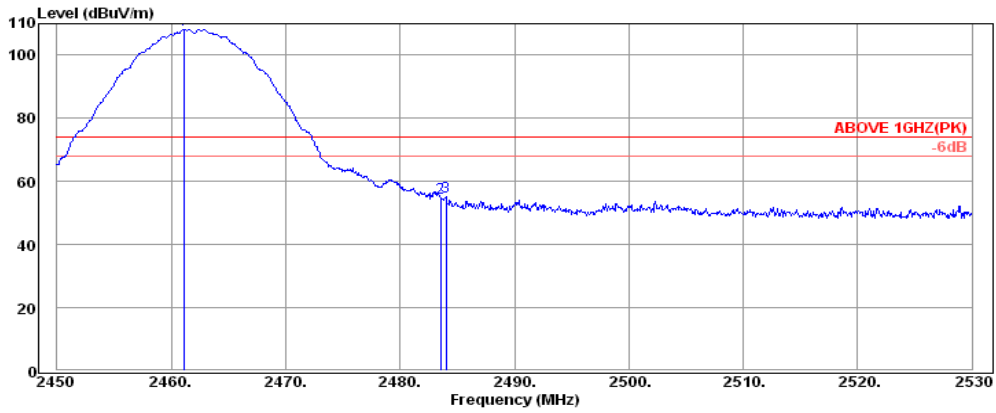
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.04	32.16	5.72	11.56	49.44	74.00	24.56	Peak
2390.04	32.16	5.72	11.15	49.03	74.00	24.97	Peak
2412.84	32.18	5.74	64.57	102.49	---	---	Peak



Antenna at Vertical Polarization

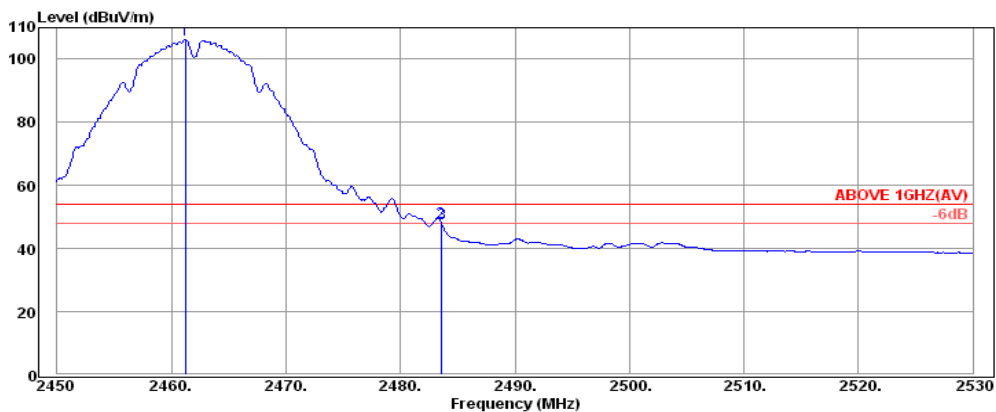
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.32	32.16	5.72	2.14	40.02	54.00	13.98	Average
2390.04	32.16	5.72	2.25	40.13	54.00	13.87	Average
2411.28	32.18	5.74	62.28	100.20	---	---	Average

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

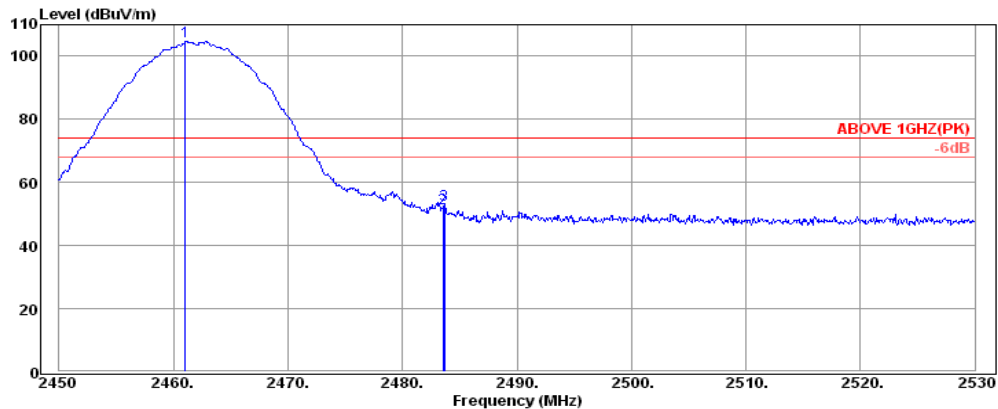
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.12	32.25	5.80	70.22	108.27	---	---	Peak
2483.52	32.28	5.82	16.70	54.80	74.00	19.20	Peak
2484.00	32.28	5.82	17.07	55.17	74.00	18.83	Peak



Antenna at Horizontal Polarization

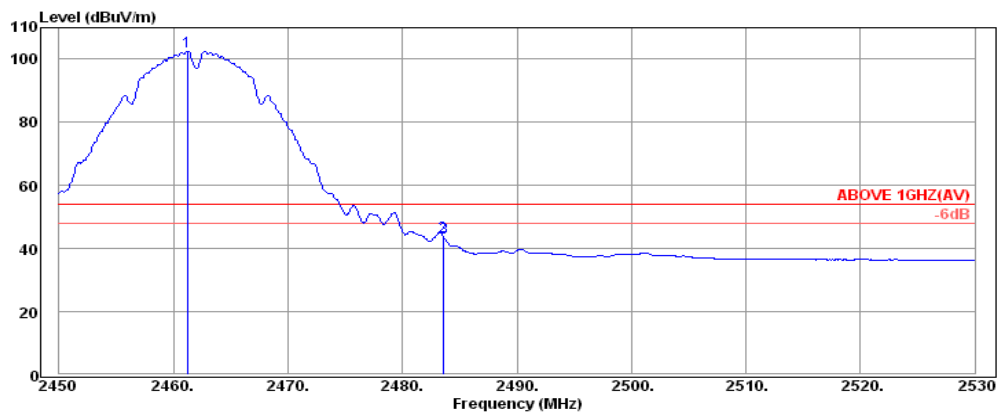
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	5.80	68.10	106.15	---	---	Average
2483.52	32.28	5.82	10.41	48.51	54.00	5.49	Average
2483.60	32.28	5.82	9.77	47.87	54.00	6.13	Average

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

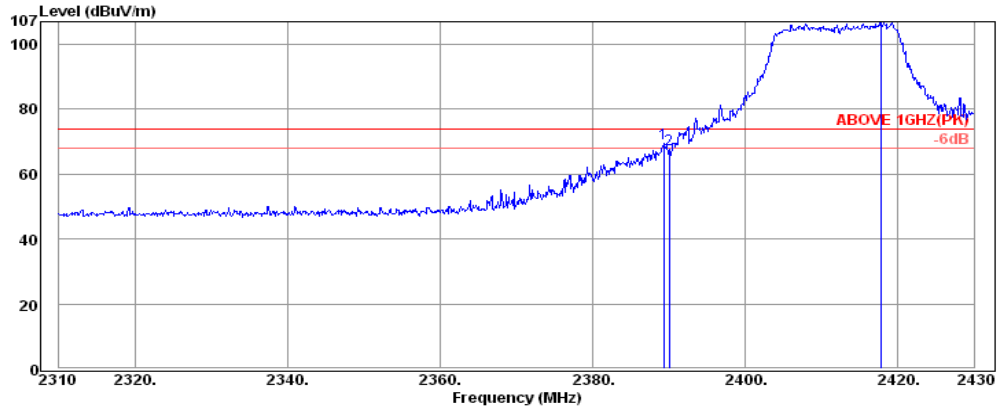
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.04	32.25	5.80	66.55	104.60	74.00	-30.60	Peak
2483.52	32.28	5.82	13.65	51.75	74.00	22.25	Peak
2483.68	32.28	5.82	14.96	53.06	---	---	Peak



Antenna at Vertical Polarization

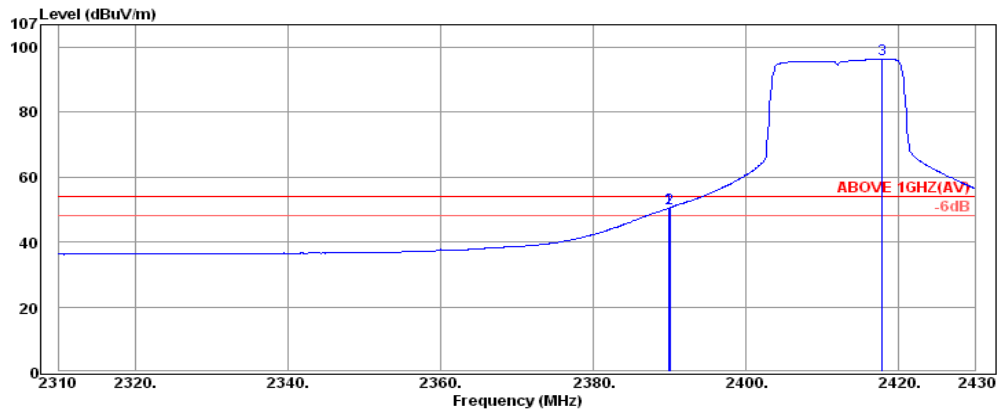
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	5.80	64.54	102.59	54.00	-48.59	Average
2483.52	32.28	5.82	5.90	44.00	54.00	10.00	Average
2483.60	32.28	5.82	5.45	43.55	---	---	Average

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

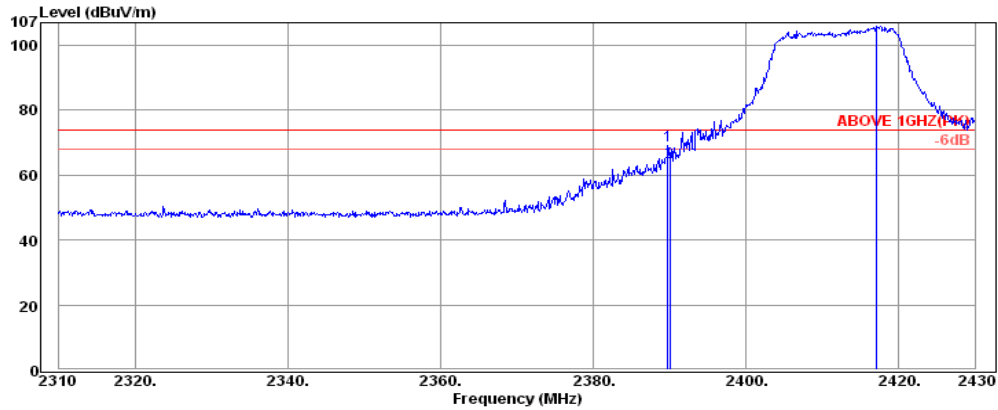
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.32	32.16	6.08	31.26	69.50	74.00	4.50	Peak
2390.04	32.16	6.08	29.50	67.74	74.00	6.26	Peak
2417.76	32.18	6.11	69.03	107.32	---	---	Peak



Antenna at Horizontal Polarization

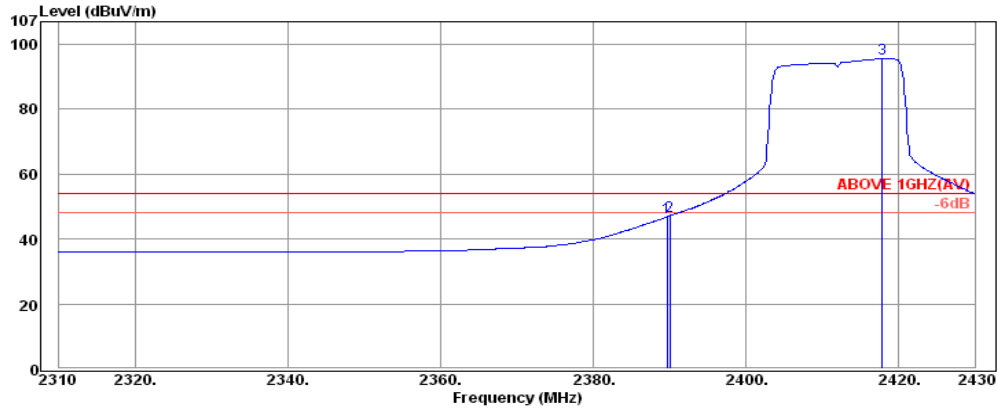
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	12.16	50.40	54.00	3.60	Average
2390.04	32.16	6.08	12.23	50.47	54.00	3.53	Average
2417.88	32.18	6.11	58.20	96.49	---	---	Average

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

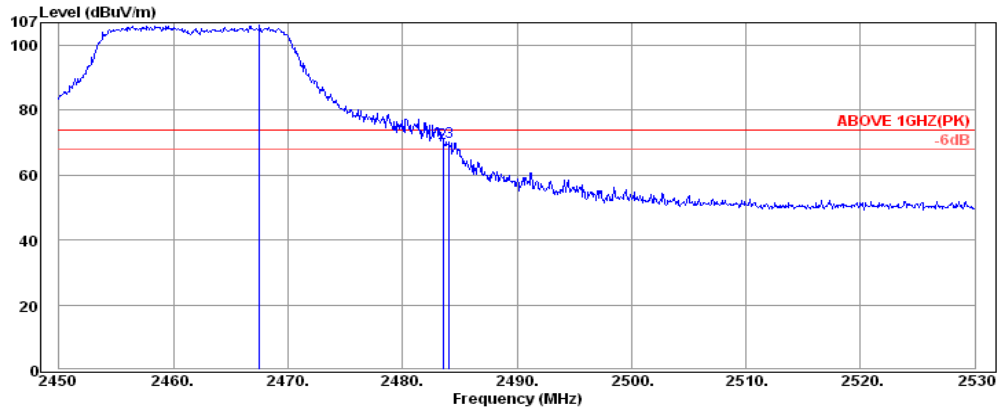
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	30.72	68.96	74.00	5.04	Peak
2390.04	32.16	6.08	25.61	63.85	74.00	10.15	Peak
2417.04	32.18	6.11	67.74	106.03	---	---	Peak



Antenna at Vertical Polarization

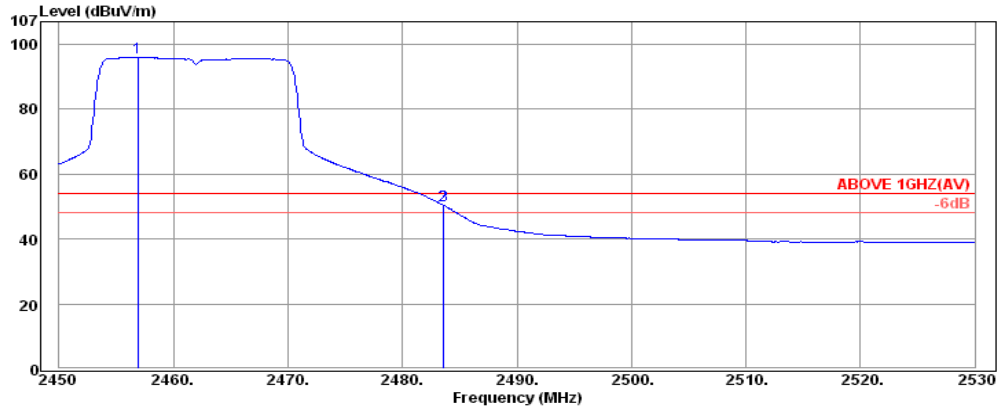
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.08	8.63	46.87	54.00	7.13	Average
2390.04	32.16	6.08	8.93	47.17	54.00	6.83	Average
2417.88	32.18	6.11	57.35	95.64	---	---	Average

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

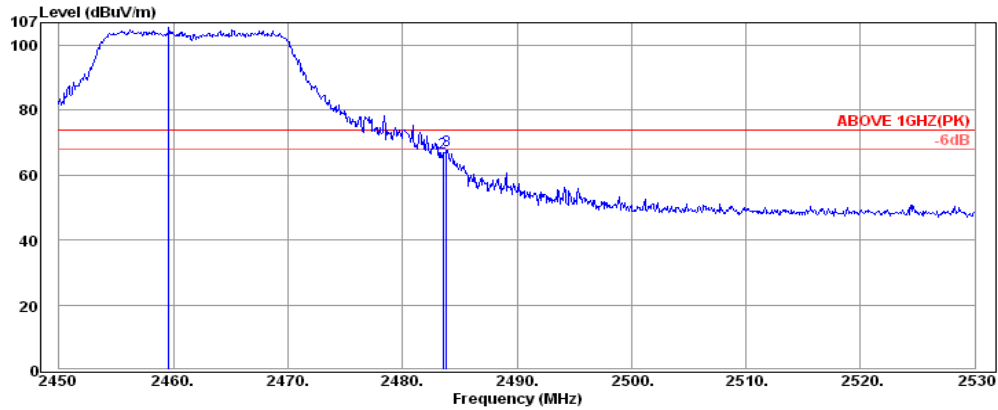
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.52	32.25	6.17	67.94	106.36	---	---	Peak
2483.52	32.28	6.19	31.53	70.00	74.00	4.00	Peak
2484.08	32.28	6.19	31.91	70.38	74.00	3.62	Peak



Antenna at Horizontal Polarization

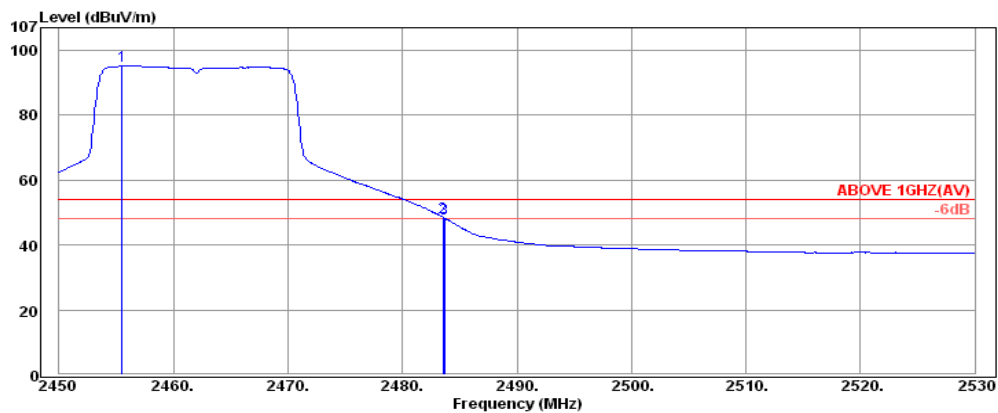
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.88	32.25	6.15	57.55	95.95	---	---	Average
2483.52	32.28	6.19	11.98	50.45	54.00	3.55	Average
2483.60	32.28	6.19	11.85	50.32	54.00	3.68	Average

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

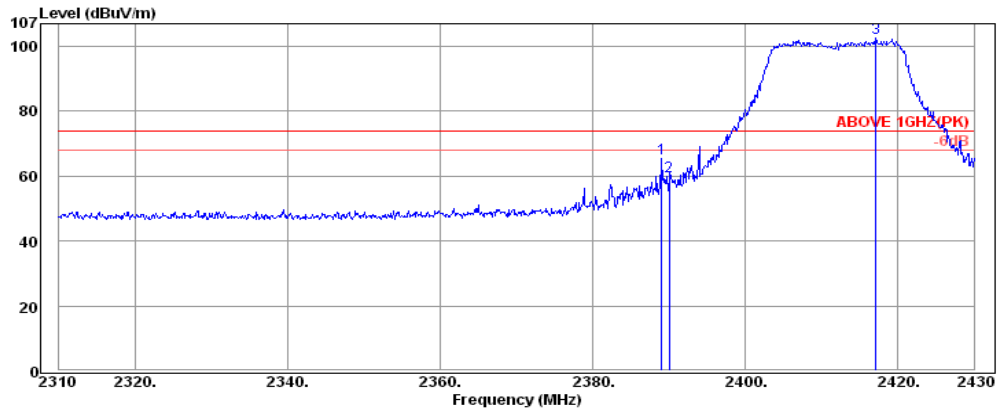
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2459.60	32.25	6.16	67.06	105.47	---	---	Peak
2483.52	32.28	6.19	28.38	66.85	74.00	7.15	Peak
2483.84	32.28	6.19	29.34	67.81	74.00	6.19	Peak



Antenna at Vertical Polarization

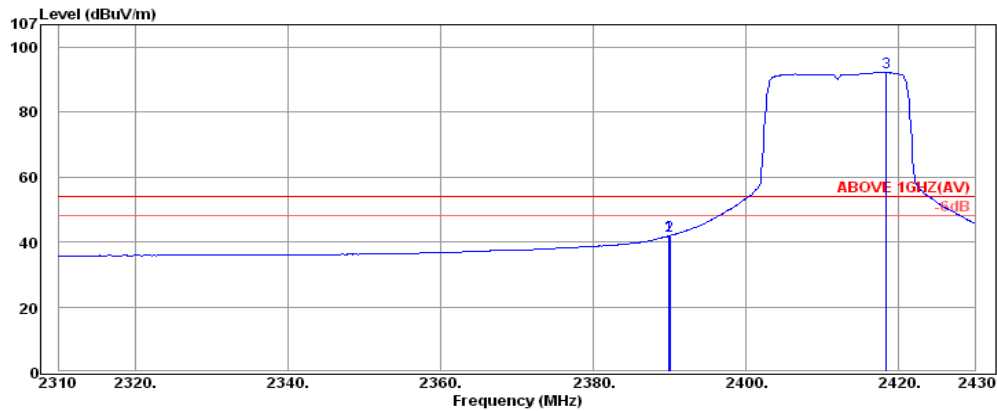
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2455.52	32.25	6.15	56.79	95.19	---	---	Average
2483.52	32.28	6.19	10.14	48.61	54.00	5.39	Average
2483.68	32.28	6.19	9.79	48.26	54.00	5.74	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

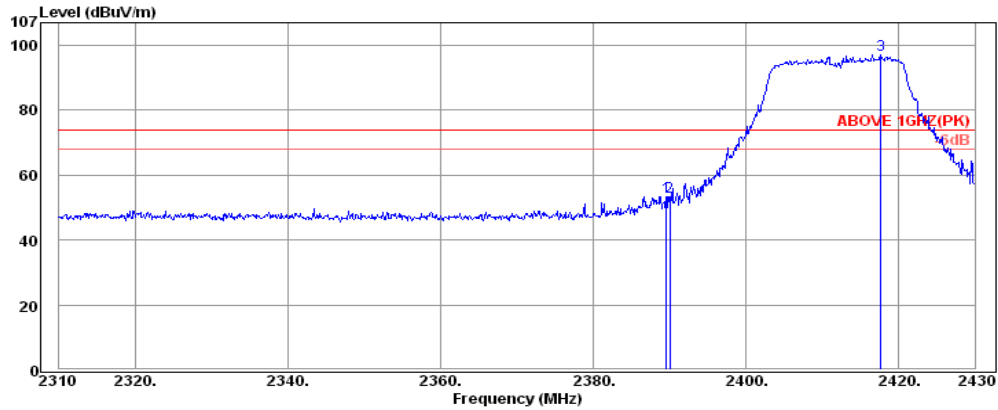
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.08	32.16	6.08	27.07	65.31	74.00	8.69	Peak
2390.04	32.16	6.08	21.53	59.77	74.00	14.23	Peak
2417.16	32.18	6.11	64.31	102.60	---	---	Peak



Antenna at Horizontal Polarization

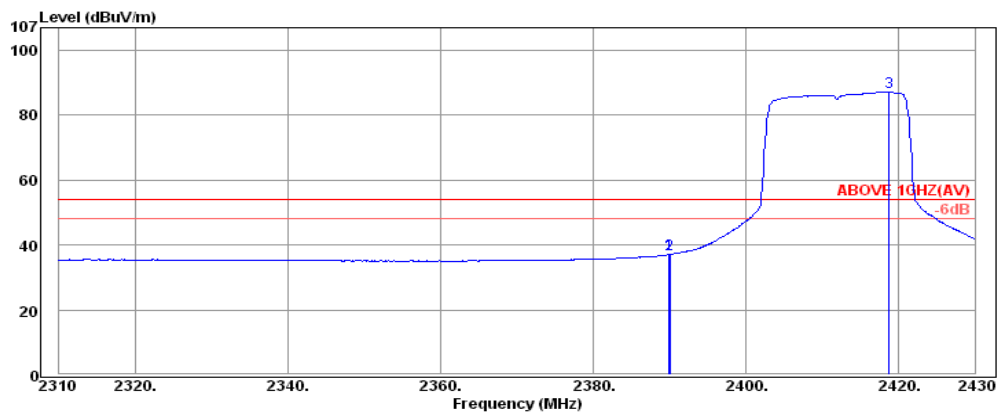
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	3.65	41.89	54.00	12.11	Average
2390.04	32.16	6.08	3.68	41.92	54.00	12.08	Average
2418.36	32.18	6.11	53.97	92.26	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

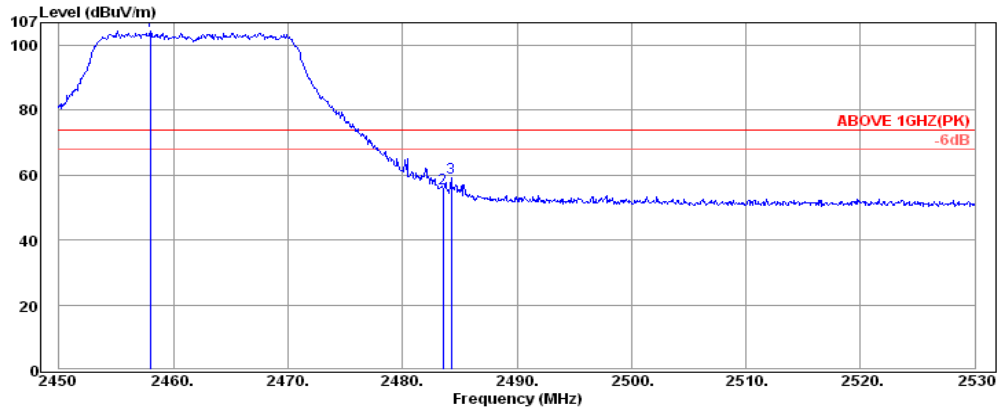
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.56	32.16	6.08	15.22	53.46	74.00	20.54	Peak
2390.04	32.16	6.08	15.04	53.28	74.00	20.72	Peak
2417.64	32.18	6.11	58.82	97.11	---	---	Peak



Antenna at Vertical Polarization

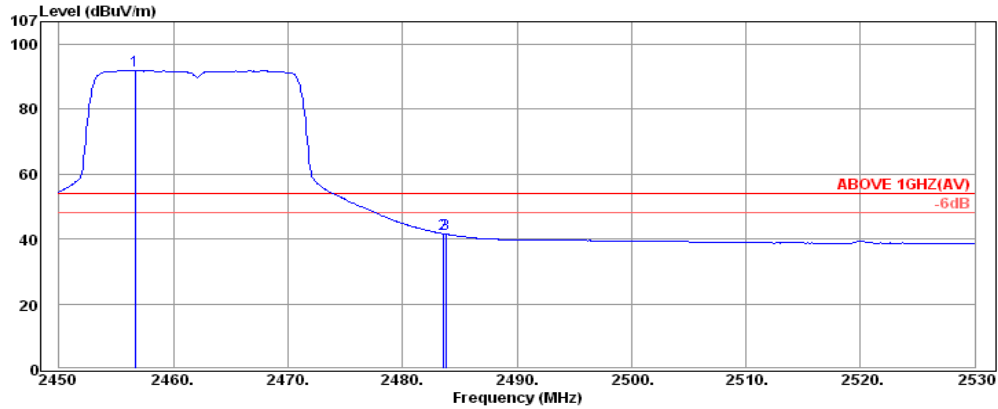
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	-1.20	37.04	54.00	16.96	Average
2390.04	32.16	6.08	-1.14	37.10	54.00	16.90	Average
2418.72	32.18	6.12	48.81	87.11	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

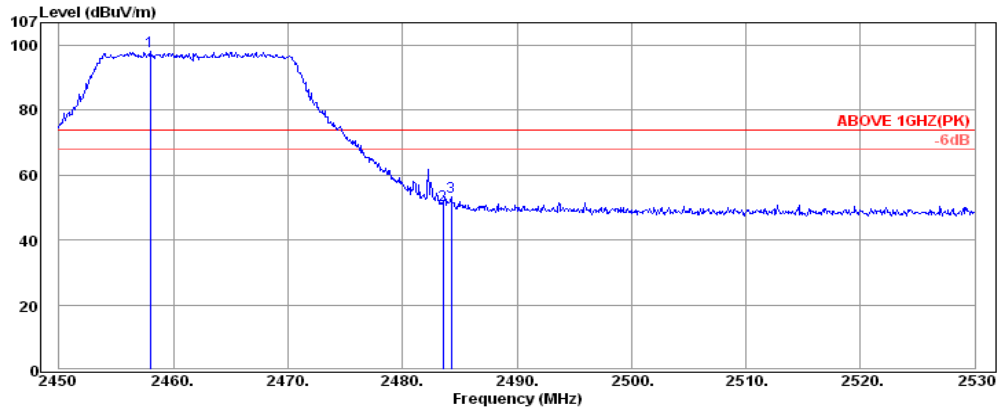
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.00	32.25	6.15	66.00	104.40	---	---	Peak
2483.52	32.28	6.19	17.36	55.83	74.00	18.17	Peak
2484.24	32.28	6.19	20.66	59.13	74.00	14.87	Peak



Antenna at Horizontal Polarization

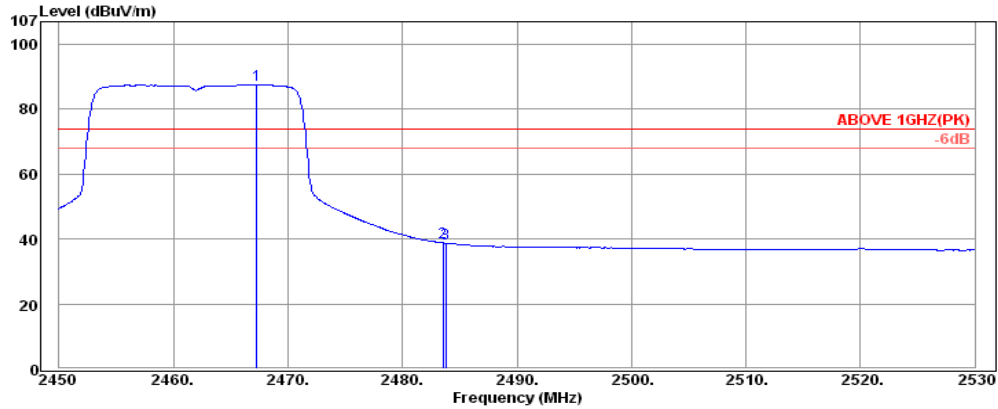
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.64	32.25	6.15	53.53	91.93	---	---	Average
2483.52	32.28	6.19	3.21	41.68	54.00	12.32	Average
2483.76	32.28	6.19	3.04	41.51	54.00	12.49	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

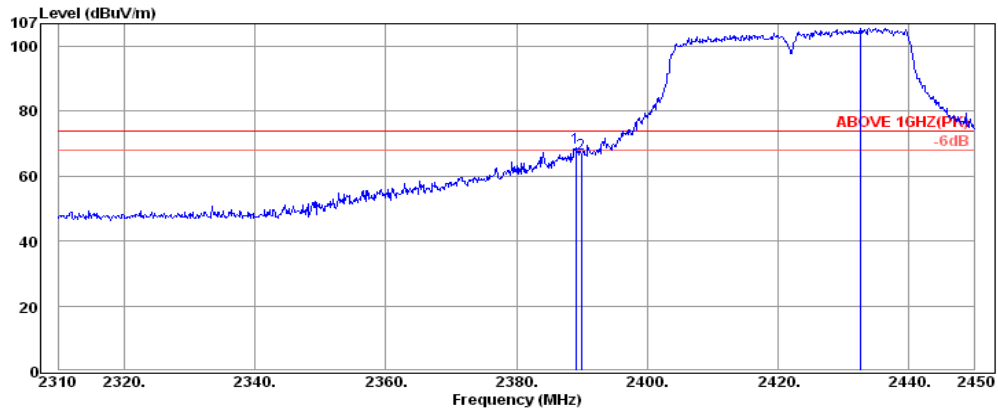
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.00	32.25	6.15	59.73	98.13	---	---	Peak
2483.52	32.28	6.19	12.15	50.62	74.00	23.38	Peak
2484.24	32.28	6.19	14.83	53.30	74.00	20.70	Peak



Antenna at Vertical Polarization

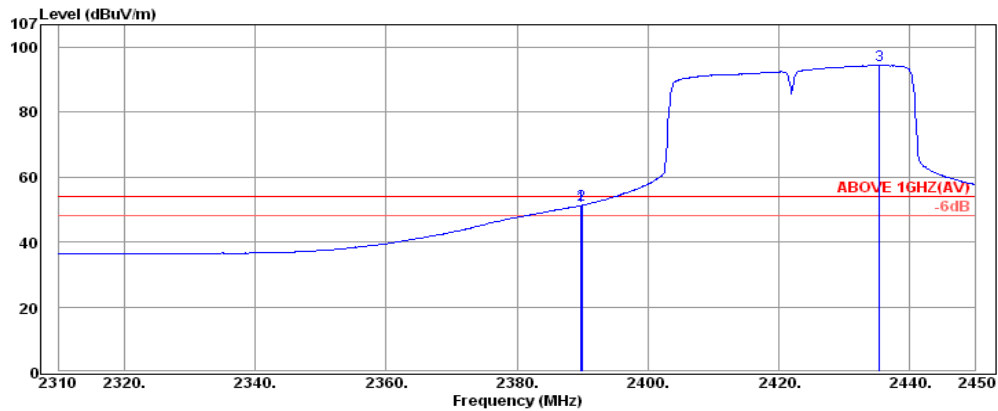
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.28	32.25	6.17	49.08	87.50	---	---	Average
2483.52	32.28	6.19	0.40	38.87	54.00	15.13	Average
2483.76	32.28	6.19	0.29	38.76	54.00	15.24	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

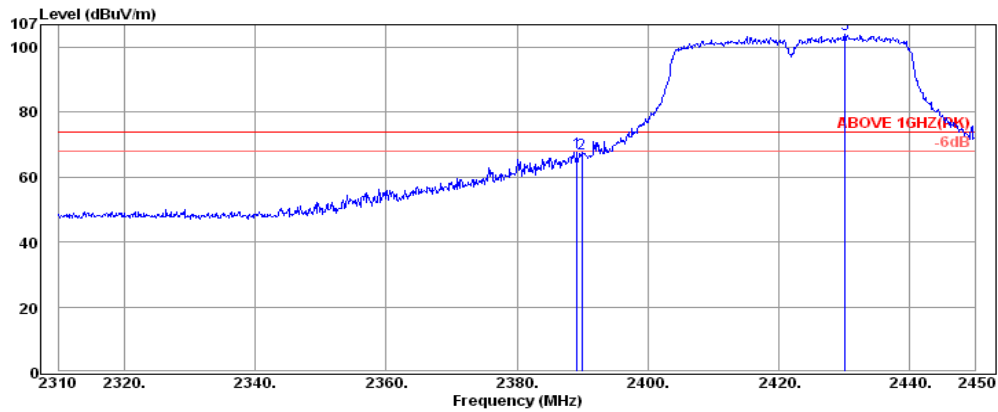
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.10	32.16	6.08	30.63	68.87	74.00	5.13	Peak
2389.94	32.16	6.08	28.83	67.07	74.00	6.93	Peak
2432.64	32.20	6.13	67.18	105.51	---	---	Peak



Antenna at Horizontal Polarization

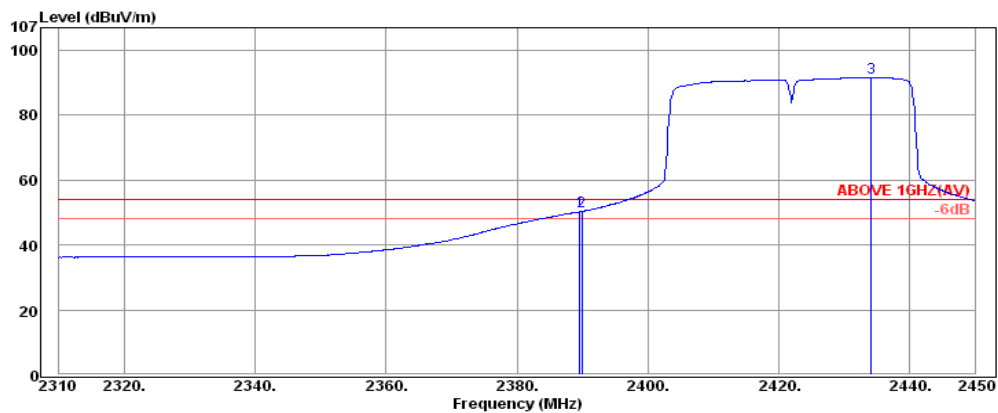
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	13.03	51.27	54.00	2.73	Average
2389.94	32.16	6.08	13.11	51.35	54.00	2.65	Average
2435.44	32.20	6.13	56.10	94.43	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

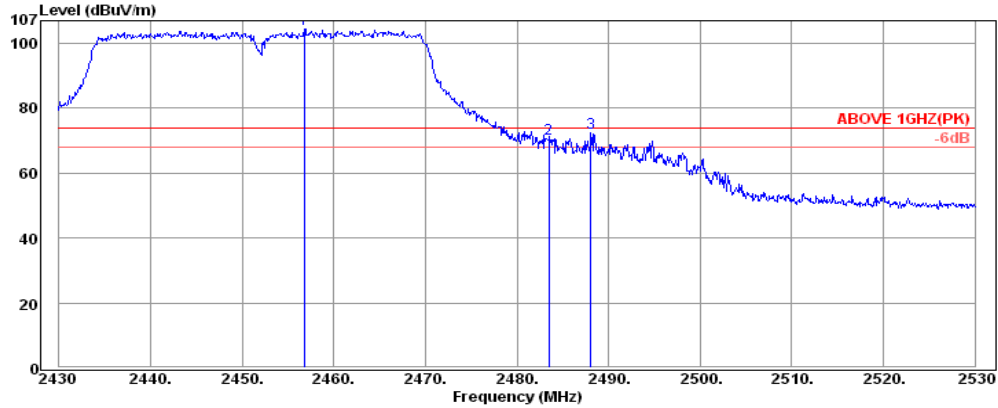
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.24	32.16	6.08	29.49	67.73	74.00	6.27	Peak
2389.94	32.16	6.08	29.19	67.43	74.00	6.57	Peak
2430.12	32.20	6.13	65.56	103.89	---	---	Peak



Antenna at Vertical Polarization

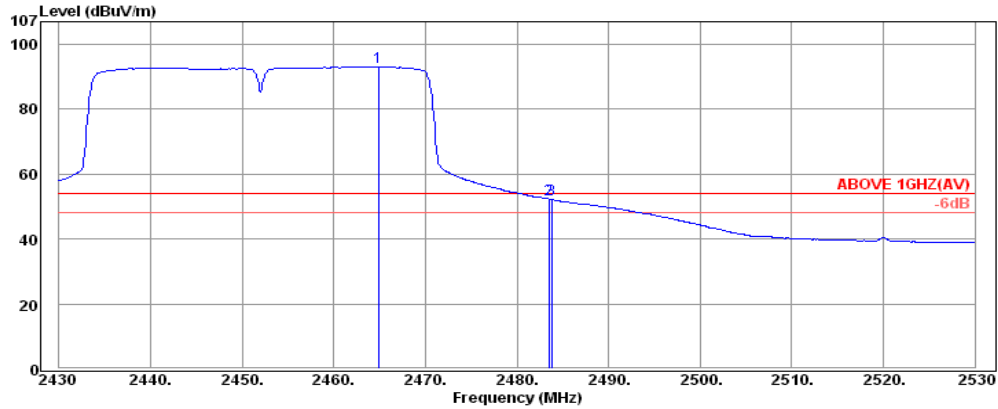
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.66	32.16	6.08	12.02	50.26	54.00	3.74	Average
2389.94	32.16	6.08	12.10	50.34	54.00	3.66	Average
2434.18	32.20	6.13	53.31	91.64	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

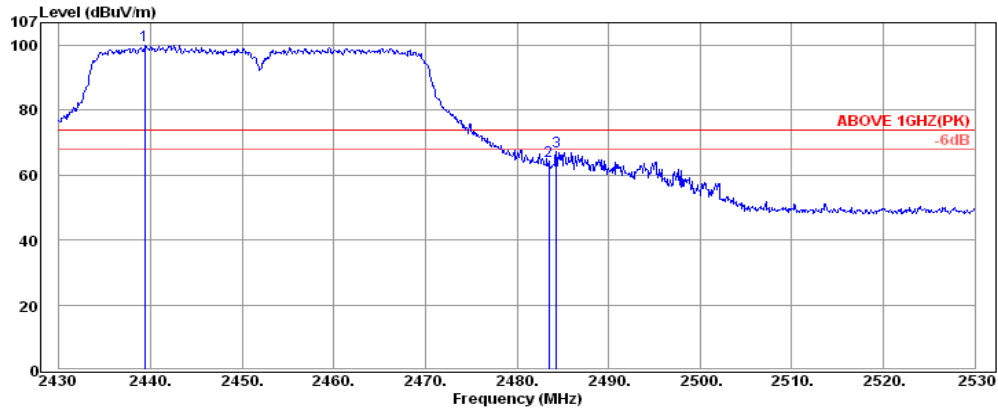
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.80	32.25	6.15	66.04	104.44	---	---	Peak
2483.50	32.28	6.19	32.04	70.51	74.00	3.49	Peak
2488.10	32.30	6.19	33.80	72.29	74.00	1.71	Peak



Antenna at Horizontal Polarization

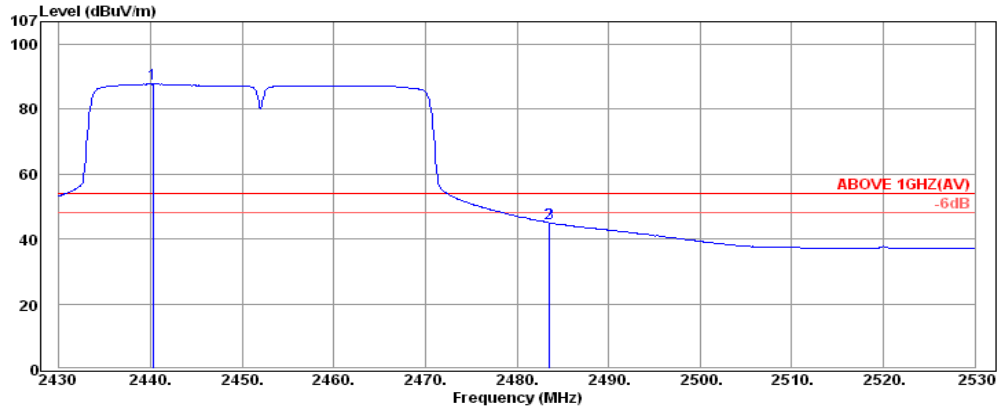
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.90	32.25	6.16	54.63	93.04	---	---	Average
2483.50	32.28	6.19	13.89	52.36	54.00	1.64	Average
2483.80	32.28	6.19	13.64	52.11	54.00	1.89	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2439.40	32.23	6.13	61.60	99.96	---	---	Peak
2483.50	32.28	6.19	25.80	64.27	74.00	9.73	Peak
2484.30	32.28	6.19	28.73	67.20	74.00	6.80	Peak

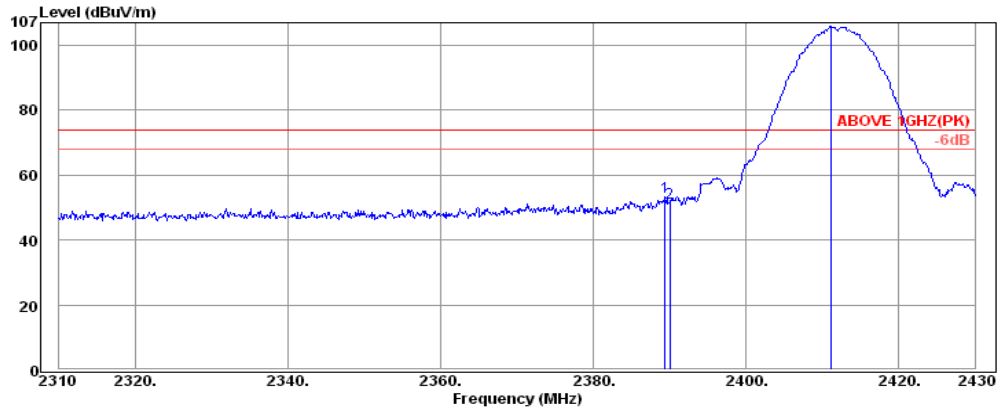


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2440.30	32.23	6.13	49.39	87.75	---	---	Average
2483.50	32.28	6.19	6.53	45.00	54.00	9.00	Average
2483.60	32.28	6.19	6.48	44.95	54.00	9.05	Average

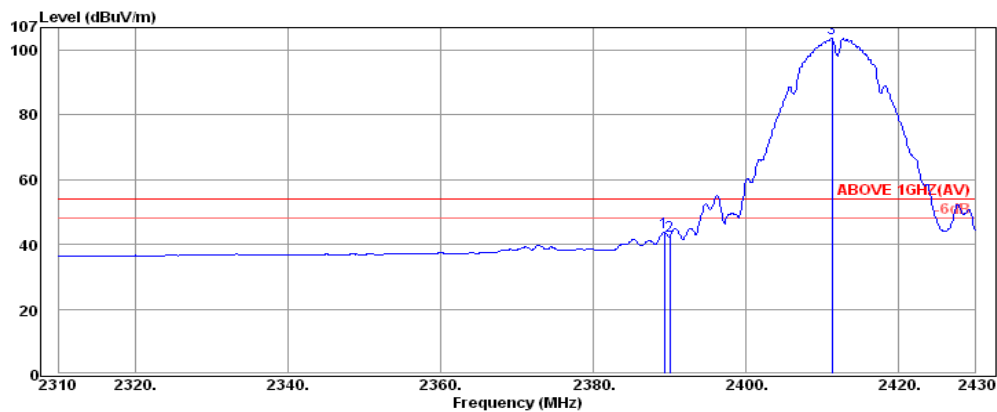
6.5.2.3. Antenna #3: ANTDP-048A

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

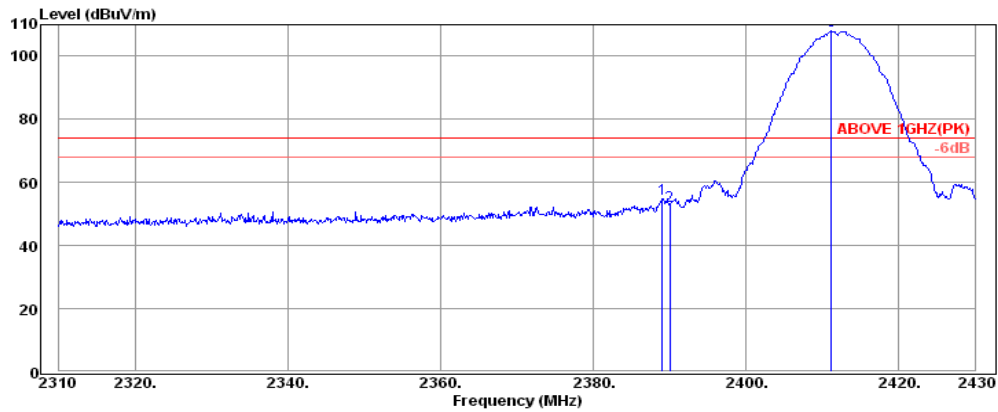
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.44	32.16	5.72	15.38	53.26	74.00	20.74	Peak
2390.04	32.16	5.72	13.55	51.43	74.00	22.57	Peak
2411.16	32.18	5.74	67.85	105.77	---	---	Peak



Antenna at Horizontal Polarization

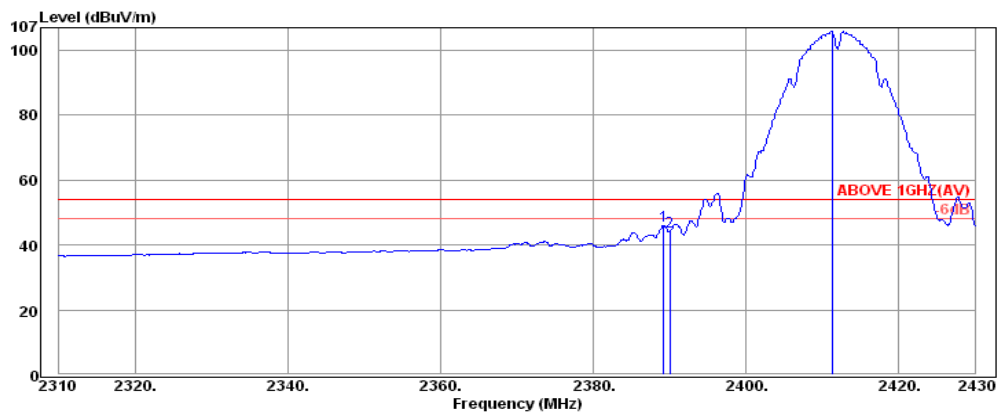
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.32	32.16	5.72	5.85	43.73	54.00	10.27	Average
2390.04	32.16	5.72	4.68	42.56	54.00	11.44	Average
2411.28	32.18	5.74	65.80	103.72	---	---	Average

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

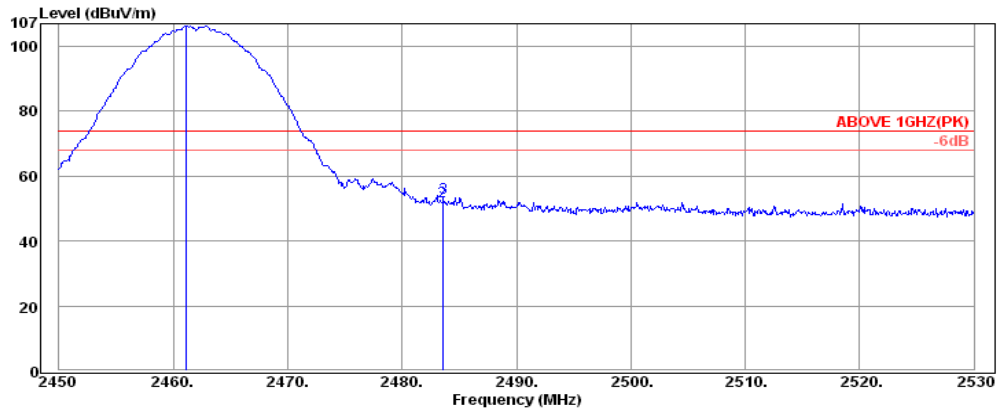
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.08	32.16	5.72	16.96	54.84	74.00	19.16	Peak
2390.04	32.16	5.72	14.62	52.50	74.00	21.50	Peak
2411.16	32.18	5.74	70.04	107.96	---	---	Peak



Antenna at Vertical Polarization

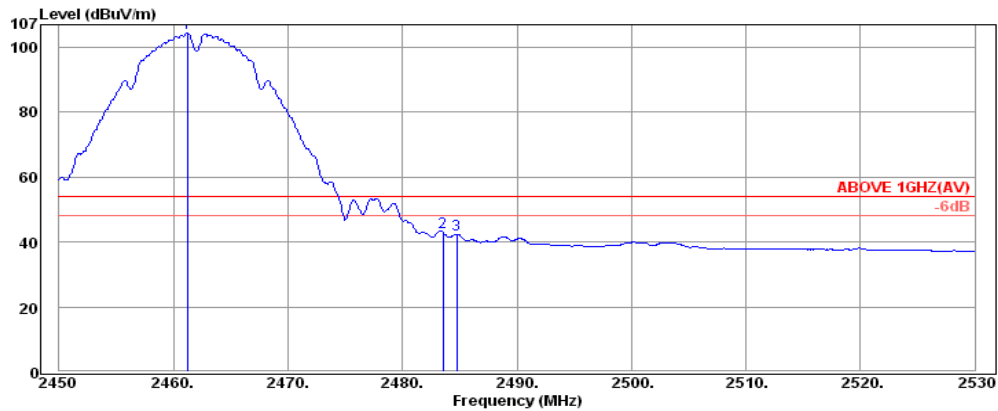
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	5.72	8.04	45.92	54.00	8.08	Average
2390.04	32.16	5.72	6.21	44.09	54.00	9.91	Average
2411.28	32.18	5.74	68.00	105.92	---	---	Average

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

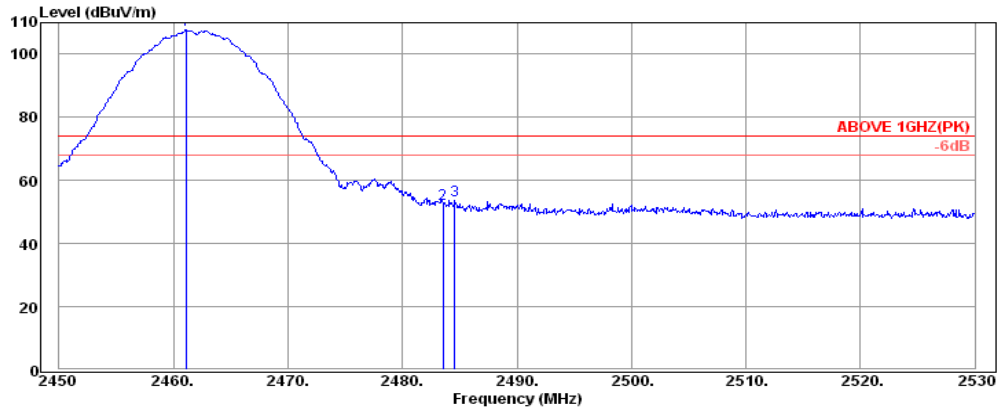
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.12	32.25	5.80	68.25	106.30	---	---	Peak
2483.52	32.28	5.82	14.07	52.17	74.00	21.83	Peak
2483.60	32.28	5.82	15.39	53.49	74.00	20.51	Peak



Antenna at Horizontal Polarization

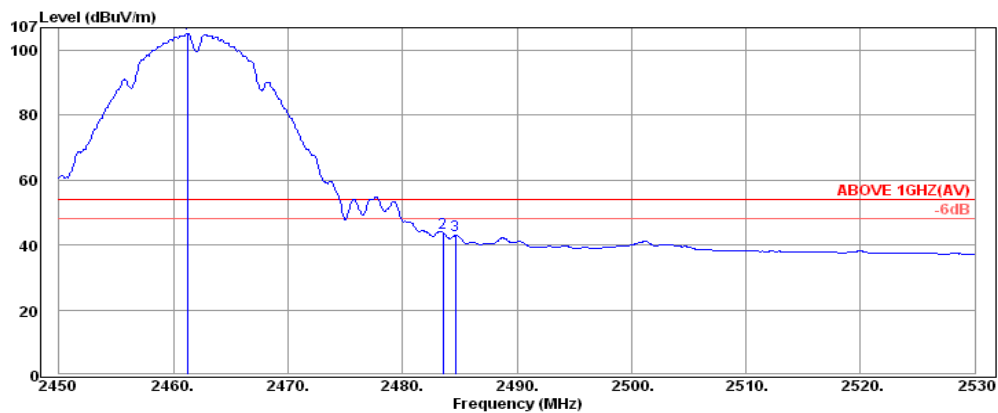
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	5.80	66.28	104.33	---	---	Average
2483.52	32.28	5.82	4.90	43.00	54.00	11.00	Average
2484.72	32.28	5.82	4.34	42.44	54.00	11.56	Average

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

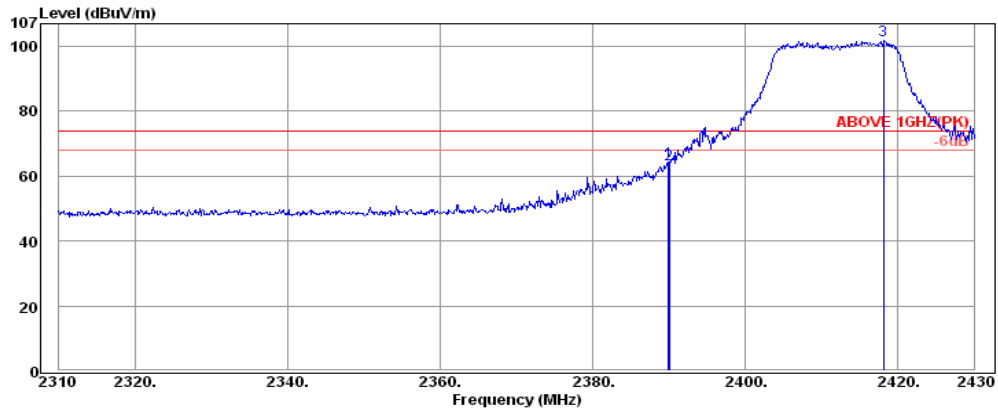
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.12	32.25	5.80	69.56	107.61	---	---	Peak
2483.52	32.28	5.82	14.50	52.60	74.00	21.40	Peak
2484.56	32.28	5.82	15.62	53.72	74.00	20.28	Peak



Antenna at Vertical Polarization

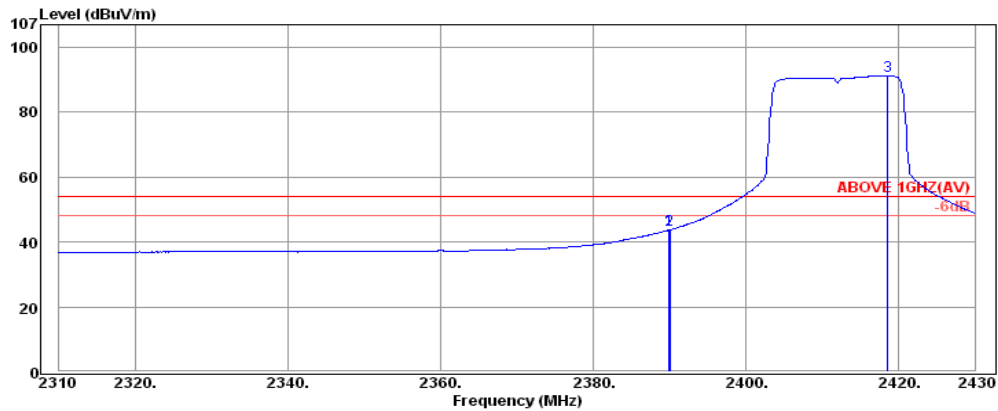
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	5.80	67.17	105.22	---	---	Average
2483.52	32.28	5.82	5.76	43.86	54.00	10.14	Average
2484.64	32.28	5.82	4.84	42.94	54.00	11.06	Average

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

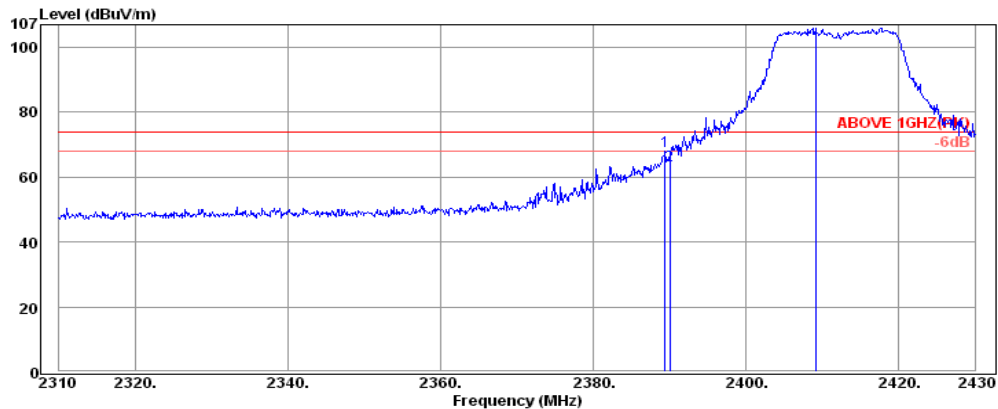
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	25.97	64.21	74.00	9.79	Peak
2390.04	32.16	6.08	25.34	63.58	74.00	10.42	Peak
2418.12	32.18	6.11	63.42	101.71	---	---	Peak



Antenna at Horizontal Polarization

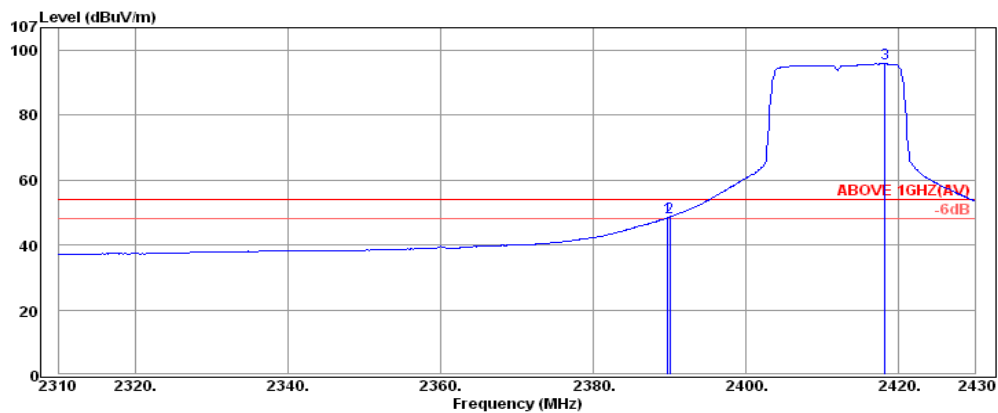
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	5.44	43.68	54.00	10.32	Average
2390.04	32.16	6.08	5.53	43.77	54.00	10.23	Average
2418.60	32.18	6.11	52.96	91.25	---	---	Average

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

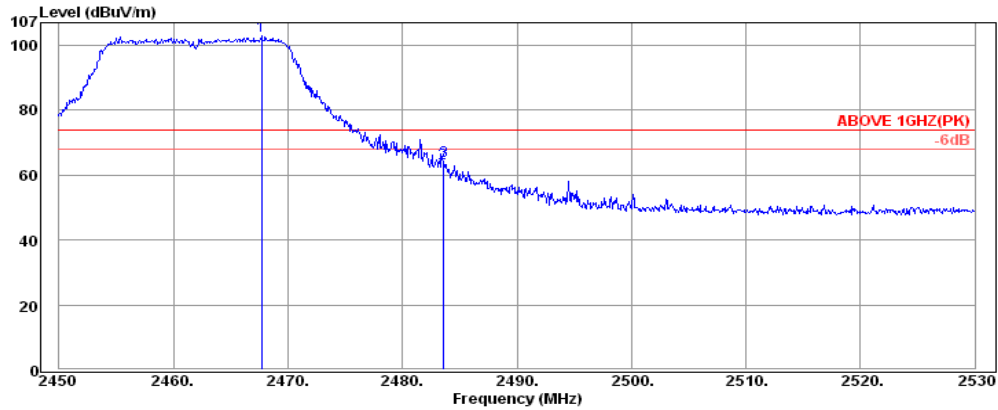
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.44	32.16	6.08	29.72	67.96	74.00	6.04	Peak
2390.04	32.16	6.08	25.34	63.58	74.00	10.42	Peak
2409.12	32.18	6.10	67.71	105.99	---	---	Peak



Antenna at Vertical Polarization

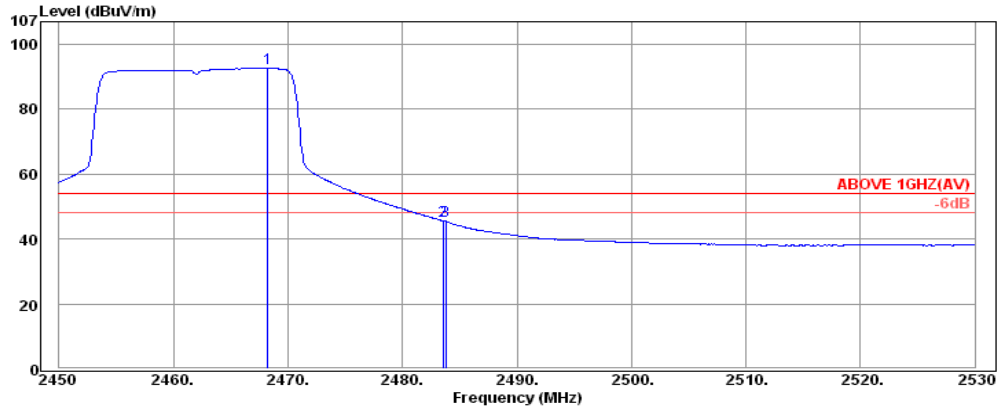
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	10.18	48.42	54.00	5.58	Average
2390.04	32.16	6.08	10.44	48.68	54.00	5.32	Average
2418.24	32.18	6.11	57.59	95.88	---	---	Average

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

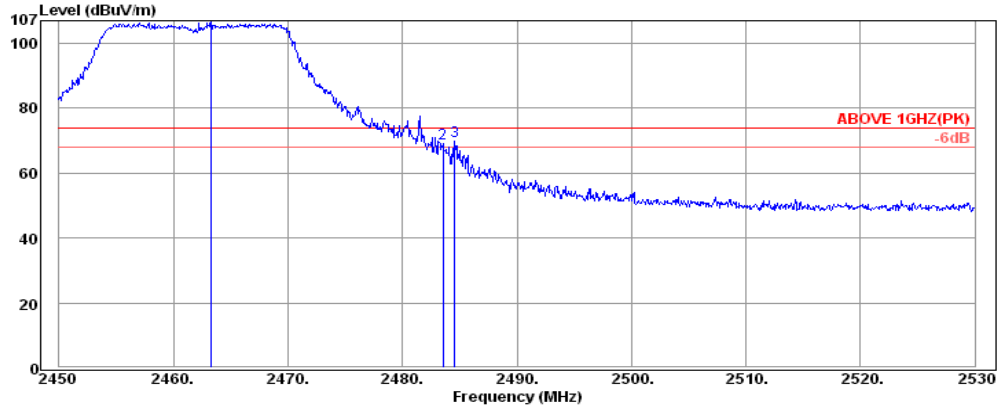
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.68	32.25	6.17	64.62	103.04	---	---	Peak
2483.52	32.28	6.19	25.08	63.55	74.00	10.45	Peak
2483.60	32.28	6.19	26.06	64.53	74.00	9.47	Peak



Antenna at Horizontal Polarization

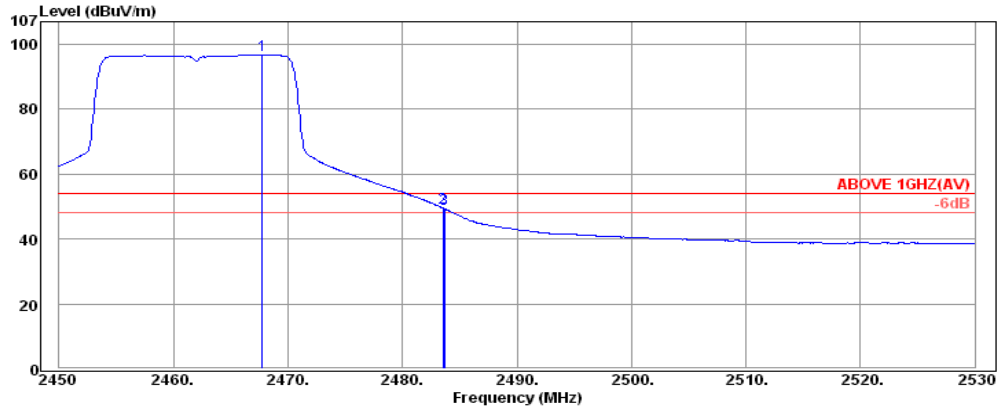
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.24	32.25	6.17	54.30	92.72	---	---	Average
2483.52	32.28	6.19	7.13	45.60	54.00	8.40	Average
2483.76	32.28	6.19	6.95	45.42	54.00	8.58	Average

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

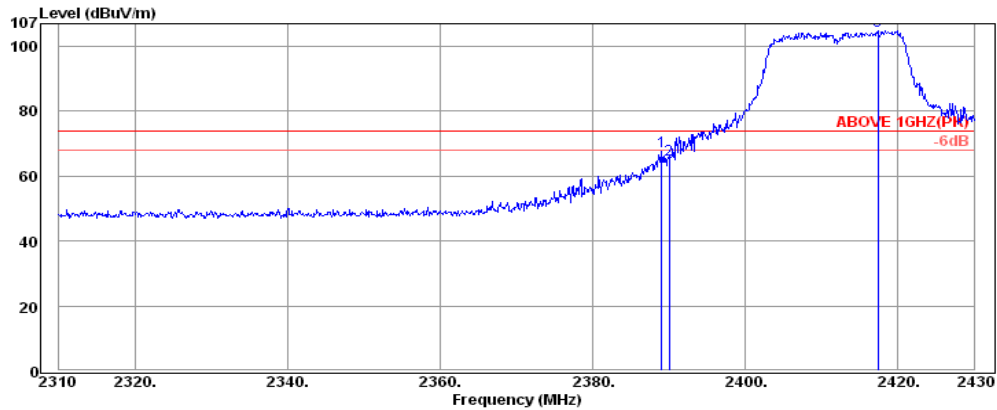
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.28	32.25	6.16	68.12	106.53	---	---	Peak
2483.52	32.28	6.19	30.58	69.05	74.00	4.95	Peak
2484.56	32.28	6.19	31.42	69.89	74.00	4.11	Peak



Antenna at Vertical Polarization

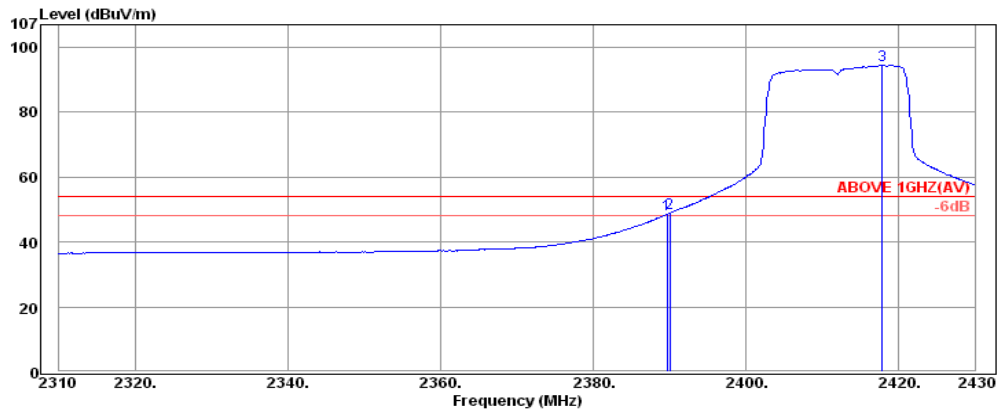
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.76	32.25	6.17	58.34	96.76	---	---	Average
2483.52	32.28	6.19	11.12	49.59	54.00	4.41	Average
2483.68	32.28	6.19	10.94	49.41	54.00	4.59	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

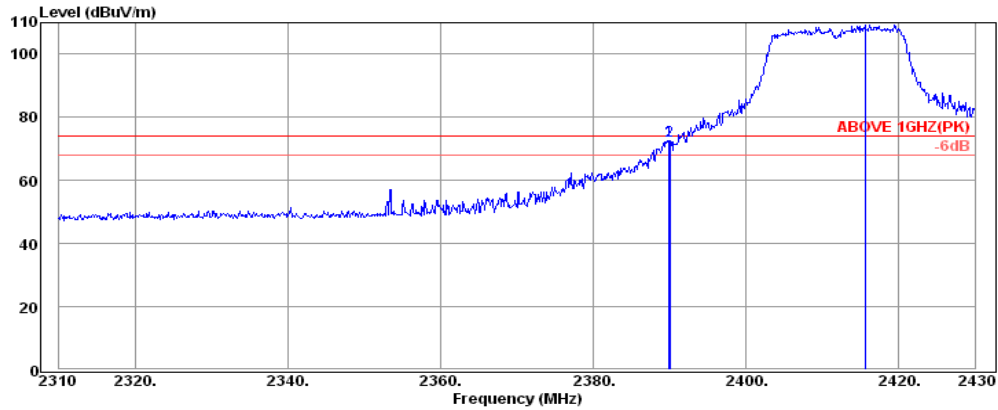
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.08	32.16	6.08	29.38	67.62	74.00	6.38	Peak
2390.04	32.16	6.08	26.96	65.20	74.00	8.80	Peak
2417.40	32.18	6.11	66.63	104.92	---	---	Peak



Antenna at Horizontal Polarization

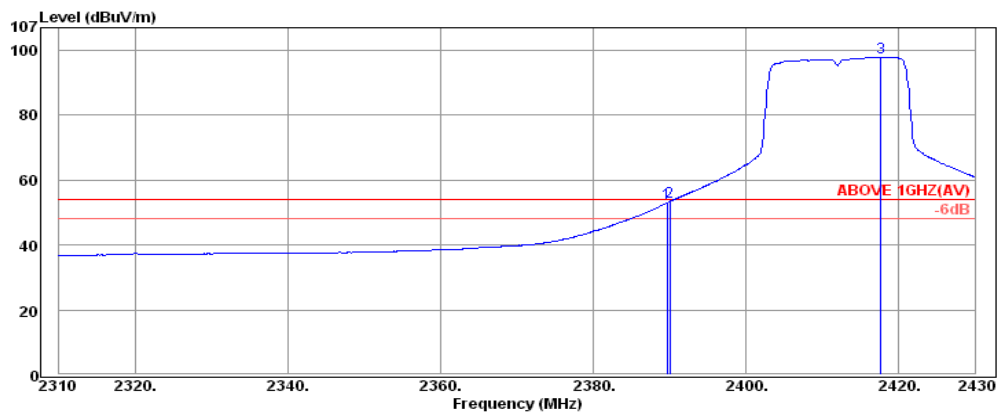
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.08	10.34	48.58	54.00	5.42	Average
2390.04	32.16	6.08	10.62	48.86	54.00	5.14	Average
2417.88	32.18	6.11	56.16	94.45	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

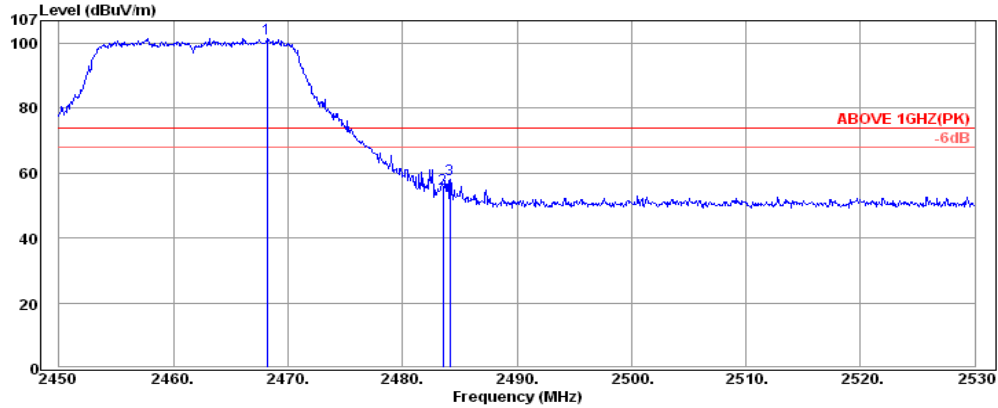
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	34.34	72.58	74.00	1.42	Peak
2390.04	32.16	6.08	34.37	72.61	74.00	1.39	Peak
2415.60	32.18	6.11	70.97	109.26	---	---	Peak



Antenna at Vertical Polarization

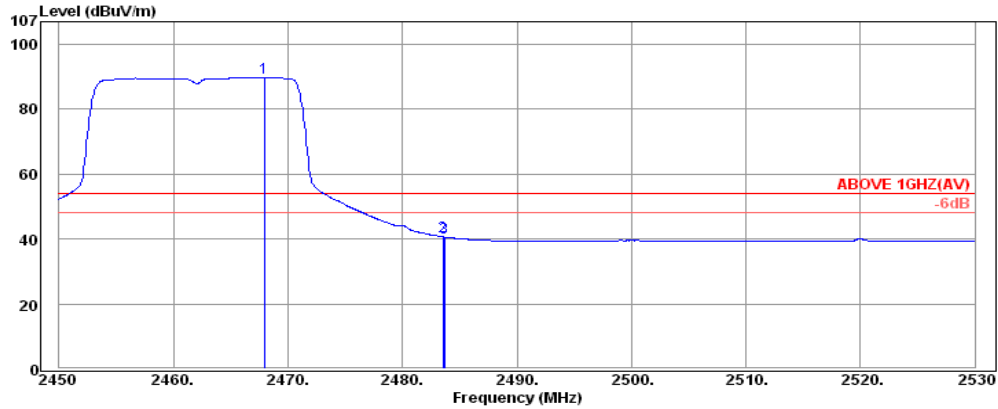
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.08	14.77	53.01	54.00	0.99	Average
2390.04	32.16	6.08	15.14	53.38	54.00	0.62	Average
2417.64	32.18	6.11	59.69	97.98	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

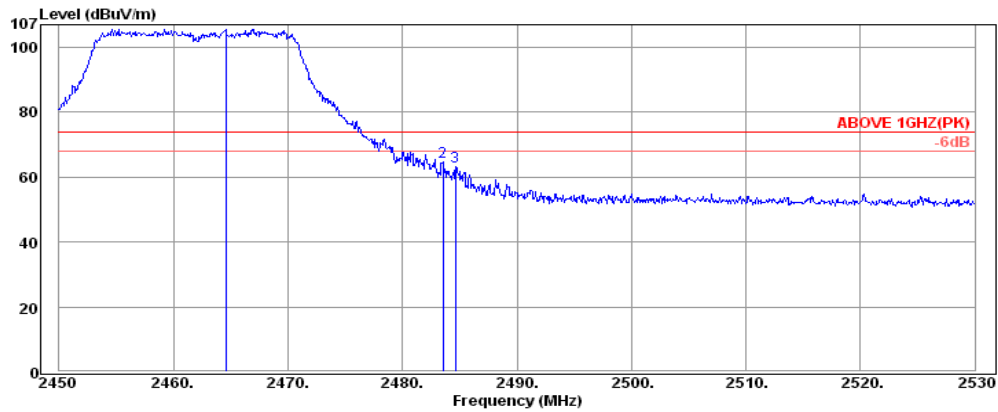
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.16	32.25	5.80	63.53	101.58	---	---	Peak
2483.52	32.28	5.82	16.98	55.08	74.00	18.92	Peak
2484.16	32.28	5.82	20.16	58.26	74.00	15.74	Peak



Antenna at Horizontal Polarization

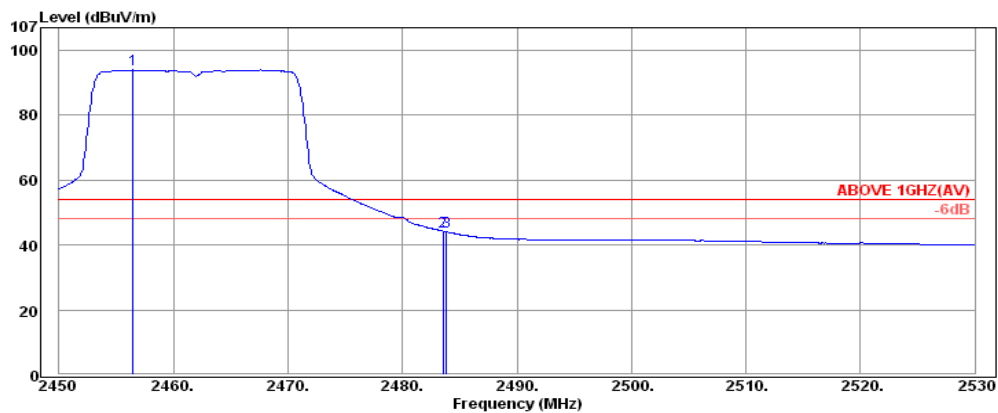
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2467.92	32.25	5.80	51.82	89.87	---	---	Average
2483.52	32.28	5.82	2.58	40.68	54.00	13.32	Average
2483.68	32.28	5.82	2.53	40.63	54.00	13.37	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

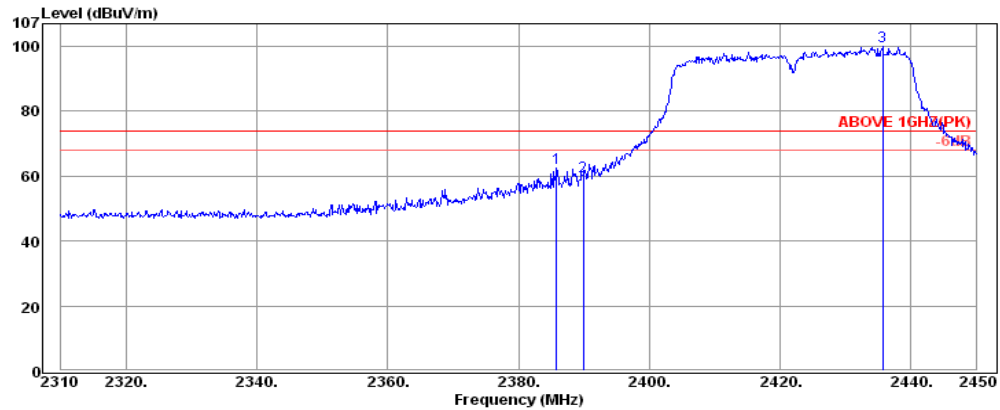
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.56	32.25	5.80	67.57	105.62	---	---	Peak
2483.52	32.28	5.82	26.49	64.59	74.00	9.41	Peak
2484.64	32.28	5.82	25.14	63.24	74.00	10.76	Peak



Antenna at Vertical Polarization

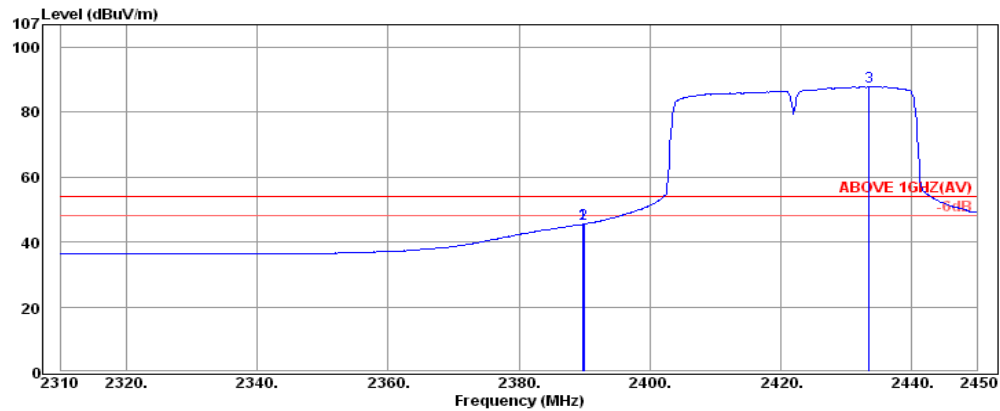
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.48	32.25	5.80	55.91	93.96	---	---	Average
2483.52	32.28	5.82	6.19	44.29	54.00	9.71	Average
2483.84	32.28	5.82	5.96	44.06	54.00	9.94	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

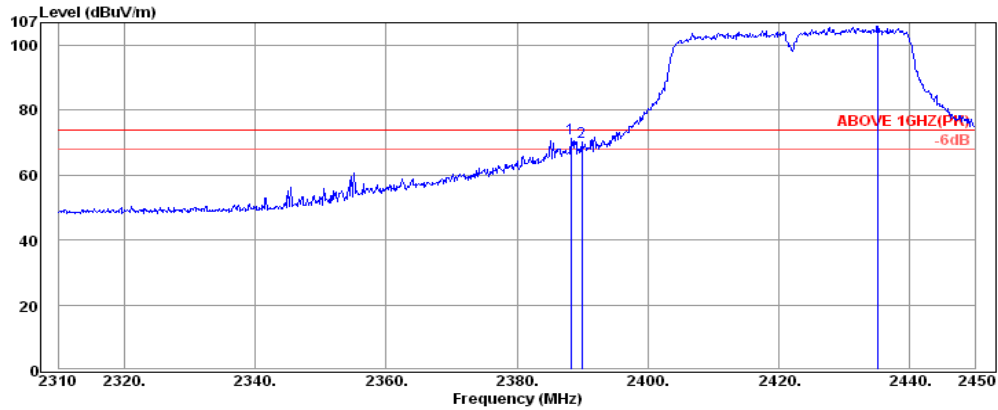
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.88	32.16	6.07	24.17	62.40	74.00	11.60	Peak
2389.94	32.16	6.08	21.68	59.92	74.00	14.08	Peak
2435.72	32.20	6.13	61.68	100.01	---	---	Peak



Antenna at Horizontal Polarization

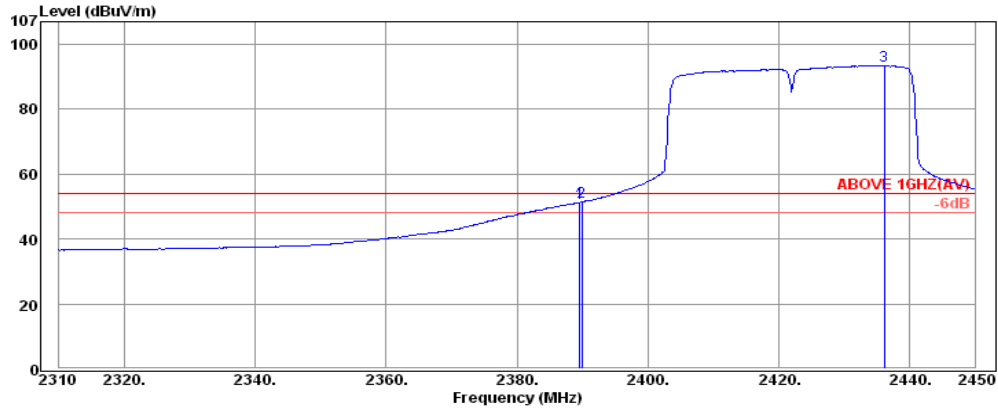
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	7.24	45.48	54.00	8.52	Average
2389.94	32.16	6.08	7.30	45.54	54.00	8.46	Average
2433.48	32.20	6.13	49.55	87.88	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

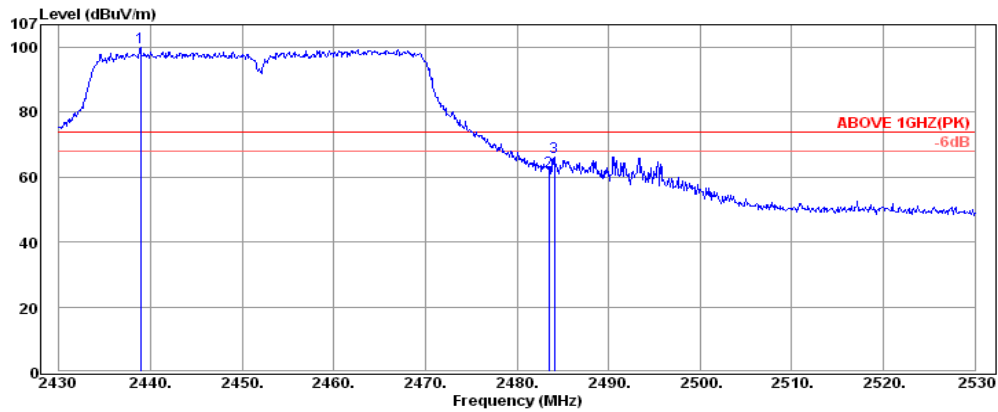
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.26	32.16	6.08	32.99	71.23	74.00	2.77	Peak
2389.94	32.16	6.08	32.09	70.33	74.00	3.67	Peak
2435.16	32.20	6.13	67.63	105.96	---	---	Peak



Antenna at Vertical Polarization

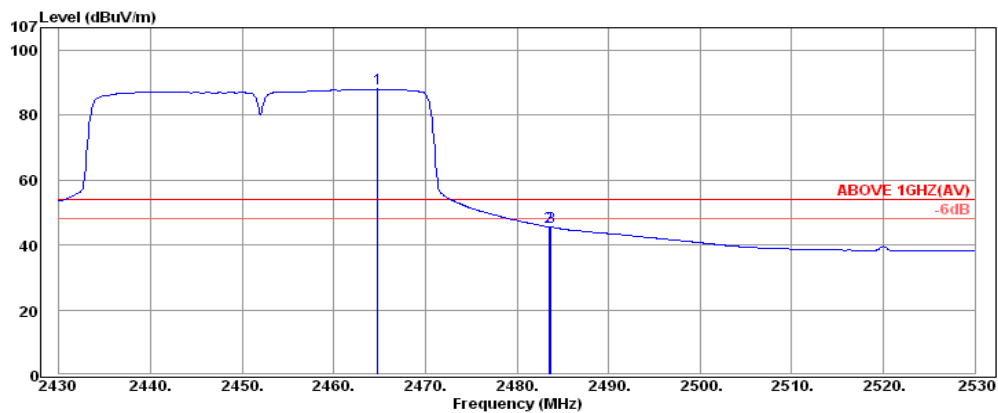
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.66	32.16	6.08	13.03	51.27	54.00	2.73	Average
2389.94	32.16	6.08	13.15	51.39	54.00	2.61	Average
2436.14	32.20	6.13	55.05	93.38	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

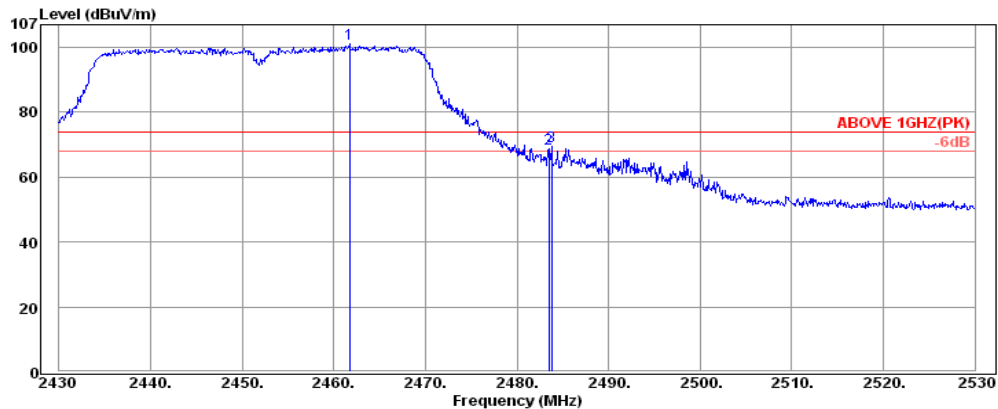
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2438.90	32.23	6.13	61.71	100.07	---	---	Peak
2483.50	32.28	6.19	23.47	61.94	74.00	12.06	Peak
2484.10	32.28	6.19	27.72	66.19	74.00	7.81	Peak



Antenna at Horizontal Polarization

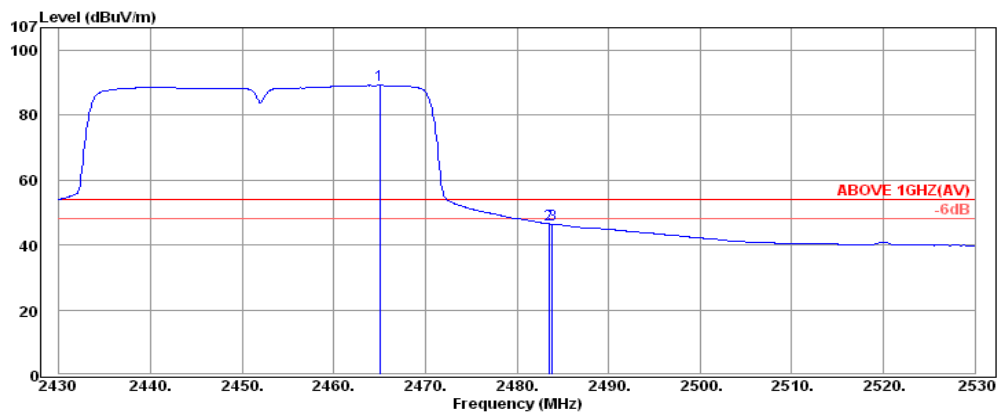
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.80	32.25	6.16	49.65	88.06	---	---	Average
2483.50	32.28	6.19	7.13	45.60	54.00	8.40	Average
2483.70	32.28	6.19	7.05	45.52	54.00	8.48	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.70	32.25	6.16	62.86	101.27	---	---	Peak
2483.50	32.28	6.19	30.19	68.66	74.00	5.34	Peak
2483.80	32.28	6.19	31.01	69.48	74.00	4.52	Peak

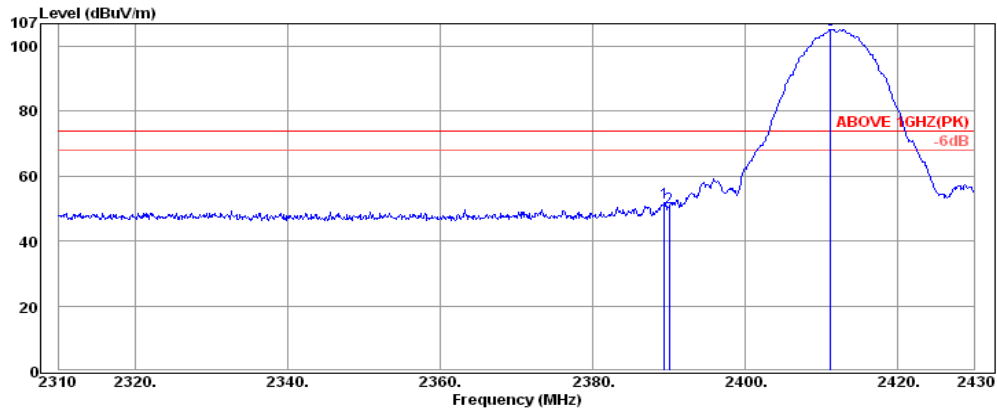


Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2465.00	32.25	6.16	50.84	89.25	---	---	Average
2483.50	32.28	6.19	8.04	46.51	54.00	7.49	Average
2483.90	32.28	6.19	8.01	46.48	54.00	7.52	Average

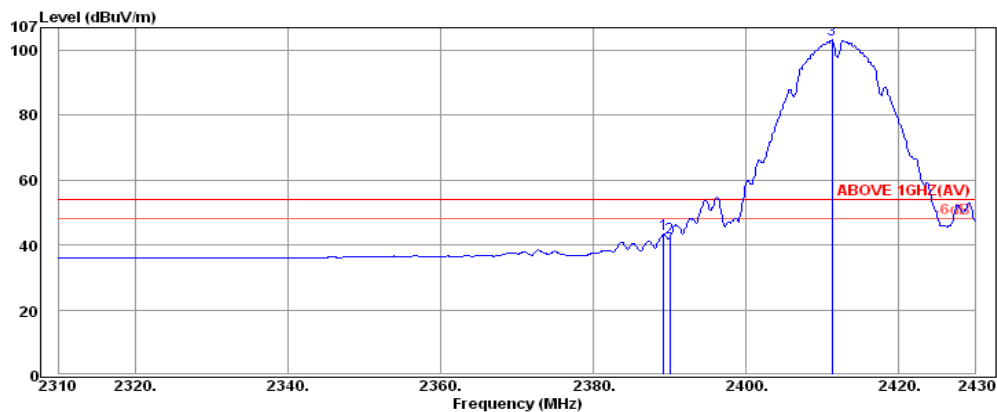
6.5.2.4. Antenna #4: MR-1700-W

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

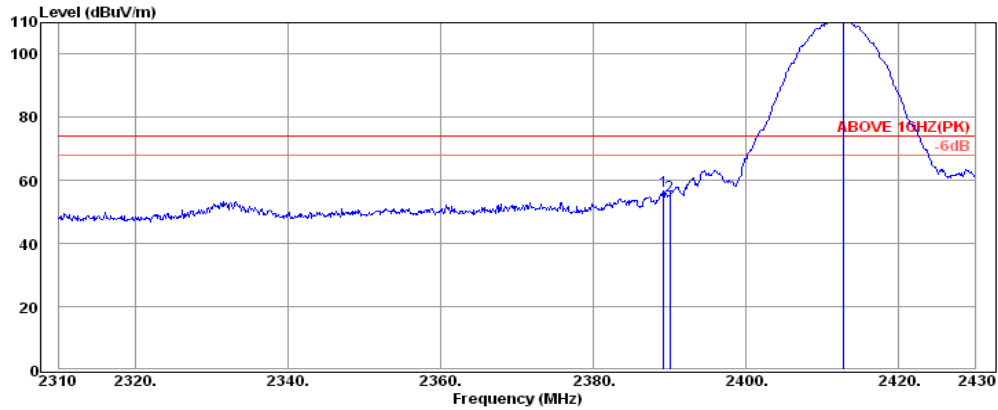
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.44	32.16	5.72	13.99	51.87	74.00	22.13	Peak
2390.04	32.16	5.72	12.46	50.34	74.00	23.66	Peak
2411.16	32.18	5.74	67.30	105.22	---	---	Peak



Antenna at Horizontal Polarization

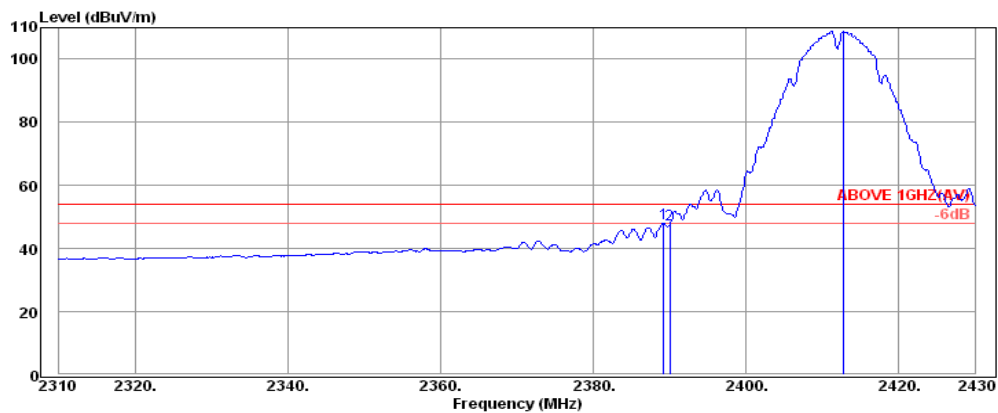
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	5.72	5.45	43.33	54.00	10.67	Average
2390.04	32.16	5.72	4.27	42.15	54.00	11.85	Average
2411.28	32.18	5.74	65.23	103.15	---	---	Average

Mode	802.11b	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

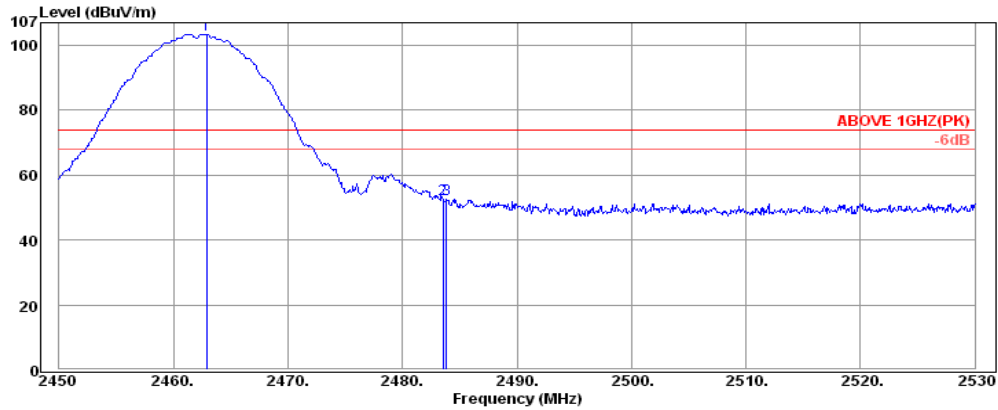
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	5.72	18.73	56.61	74.00	17.39	Peak
2390.04	32.16	5.72	17.38	55.26	74.00	18.74	Peak
2412.84	32.18	5.74	73.10	111.02	---	---	Peak



Antenna at Vertical Polarization

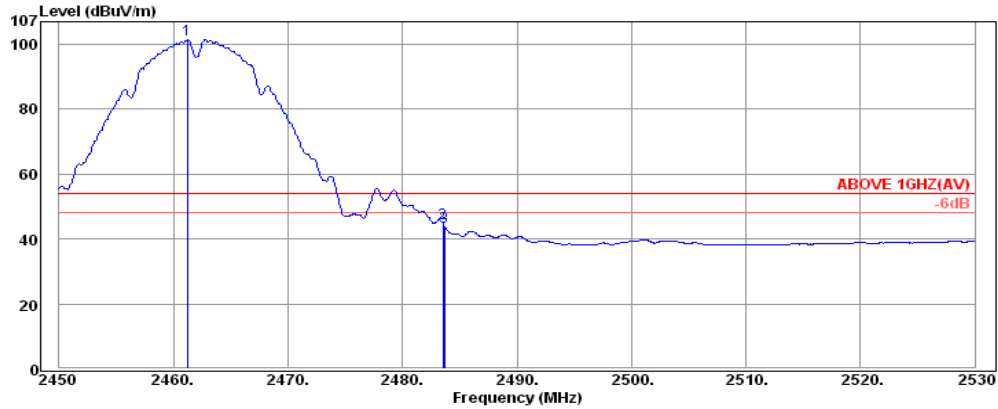
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	5.72	10.23	48.11	54.00	5.89	Average
2390.04	32.16	5.72	9.78	47.66	54.00	6.34	Average
2412.72	32.18	5.74	70.92	108.84	---	---	Average

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

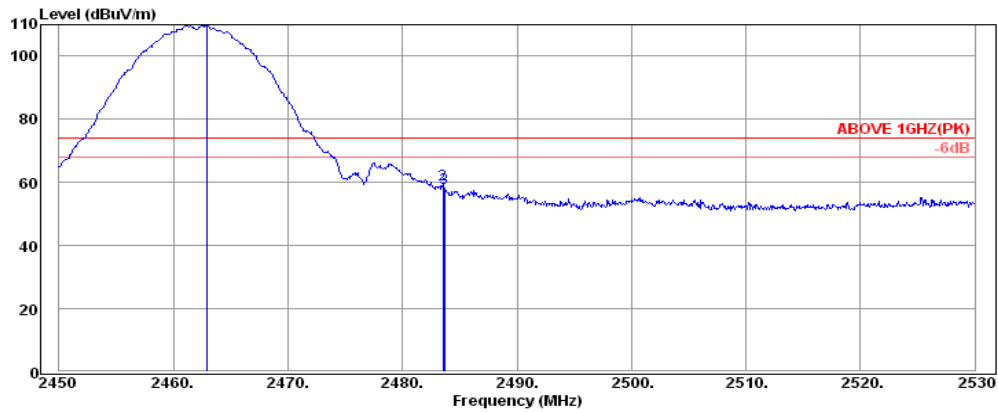
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.88	32.25	5.80	65.43	103.48	---	---	Peak
2483.52	32.28	5.82	14.57	52.67	74.00	21.33	Peak
2483.84	32.28	5.82	14.54	52.64	74.00	21.36	Peak



Antenna at Horizontal Polarization

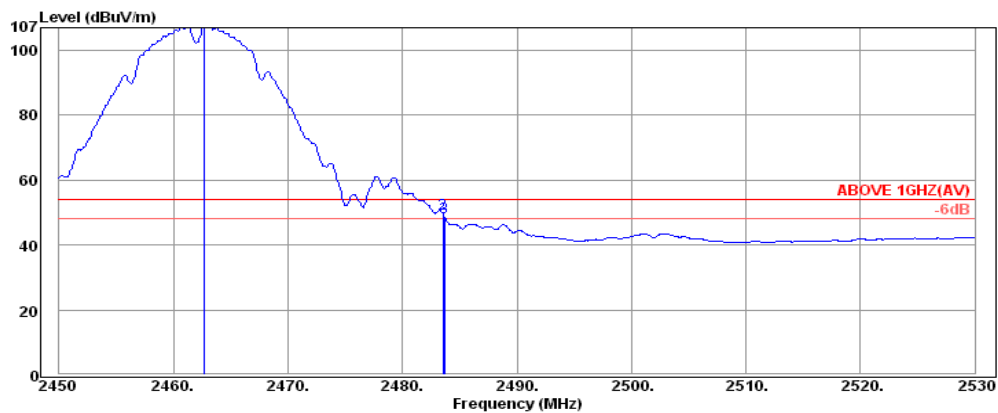
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	5.80	63.34	101.39	---	---	Average
2483.52	32.28	5.82	6.72	44.82	54.00	9.18	Average
2483.68	32.28	5.82	5.70	43.80	54.00	10.20	Average

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

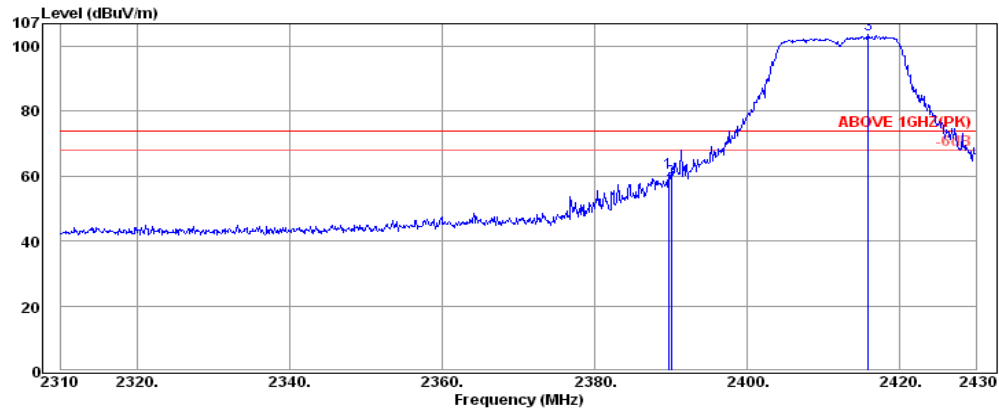
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.88	32.25	5.80	71.69	109.74	---	---	Peak
2483.52	32.28	5.82	21.27	59.37	74.00	14.63	Peak
2483.68	32.28	5.82	20.19	58.29	74.00	15.71	Peak



Antenna at Vertical Polarization

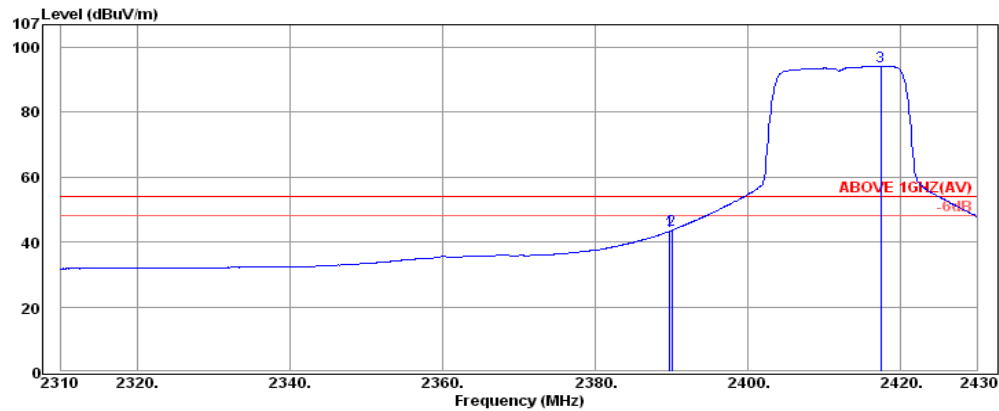
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.72	32.25	5.80	69.47	107.52	---	---	Average
2483.52	32.28	5.82	11.44	49.54	54.00	4.46	Average
2483.68	32.28	5.82	10.47	48.57	54.00	5.43	Average

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

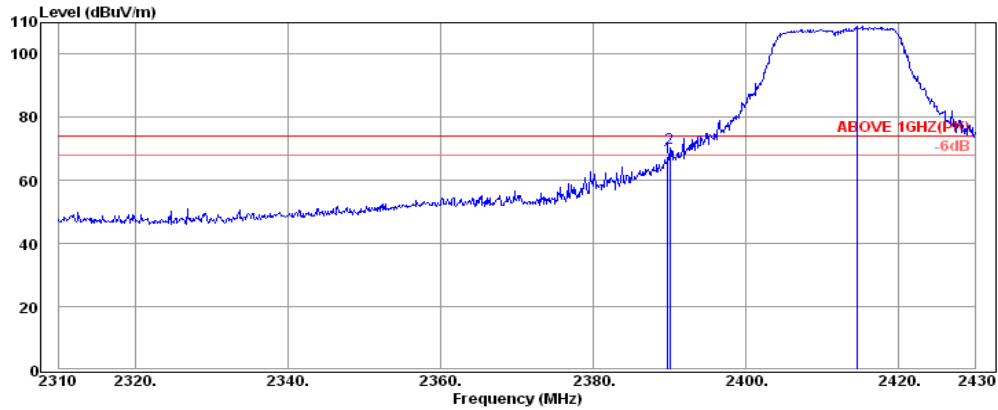
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	6.08	22.64	60.88	74.00	13.12	Peak
2390.04	32.16	6.08	20.55	58.79	74.00	15.21	Peak
2415.84	32.18	6.11	65.32	103.61	---	---	Peak



Antenna at Horizontal Polarization

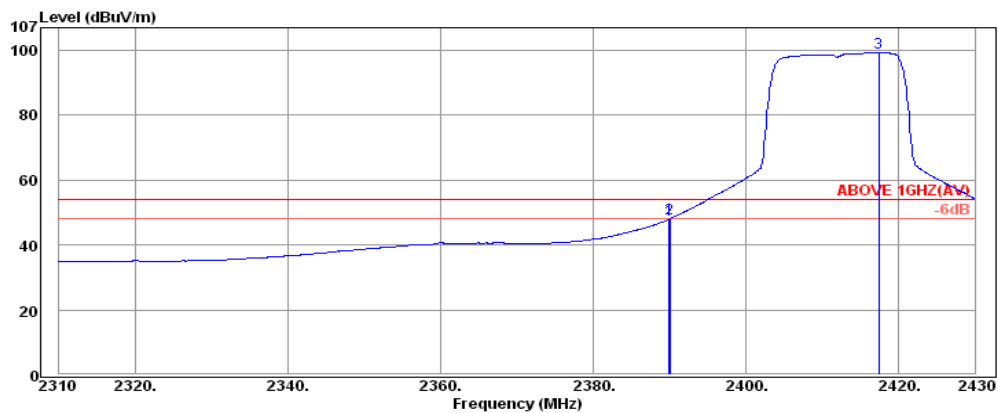
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	5.16	43.40	54.00	10.60	Average
2390.04	32.16	6.08	5.35	43.59	54.00	10.41	Average
2417.40	32.18	6.11	55.94	94.23	---	---	Average

Mode	802.11g	Frequency	TX 2412MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

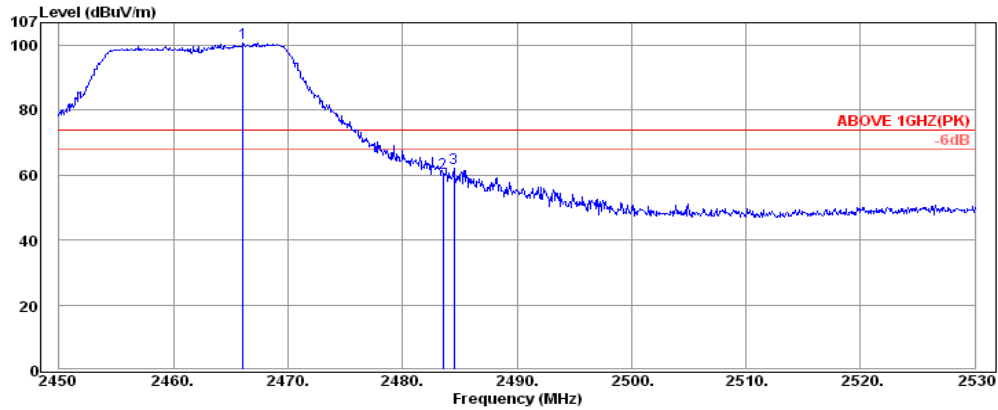
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	6.08	29.23	67.47	74.00	6.53	Peak
2390.04	32.16	6.08	31.92	70.16	74.00	3.84	Peak
2414.64	32.18	6.11	70.70	108.99	---	---	Peak



Antenna at Vertical Polarization

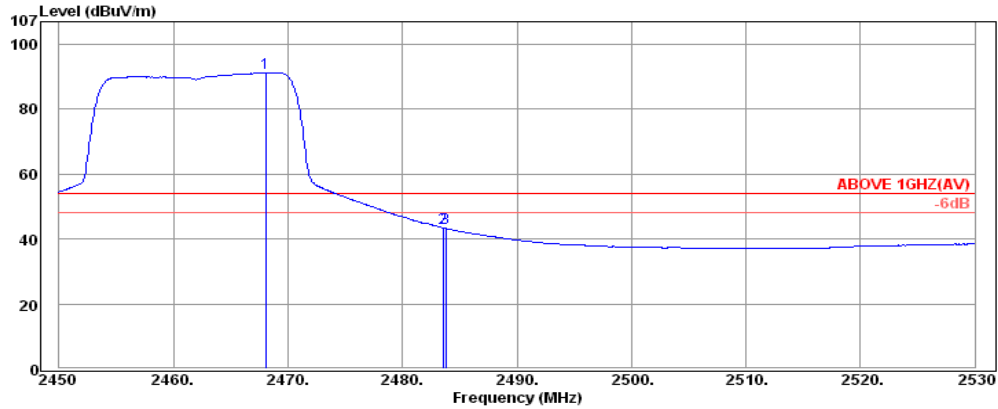
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	6.08	9.72	47.96	54.00	6.04	Average
2390.04	32.16	6.08	9.86	48.10	54.00	5.90	Average
2417.40	32.18	6.11	61.01	99.30	---	---	Average

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Horizontal Polarization

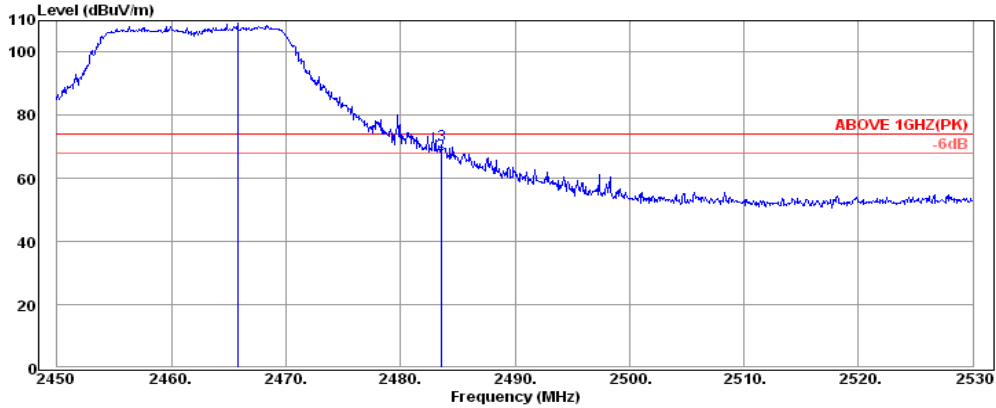
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2466.08	32.25	6.16	62.31	100.72	---	---	Peak
2483.52	32.28	6.19	22.15	60.62	74.00	13.38	Peak
2484.48	32.28	6.19	23.85	62.32	74.00	11.68	Peak



Antenna at Horizontal Polarization

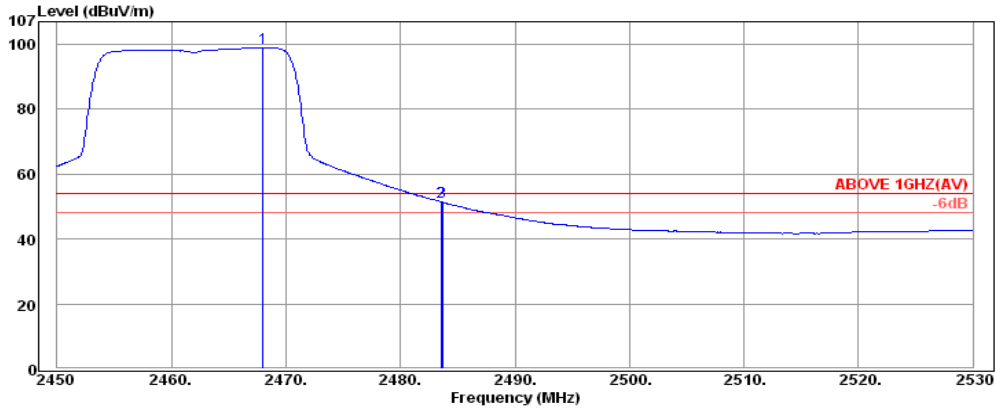
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.08	32.25	6.17	52.85	91.27	---	---	Average
2483.52	32.28	6.19	5.05	43.52	54.00	10.48	Average
2483.76	32.28	6.19	4.79	43.26	54.00	10.74	Average

Mode	802.11g	Frequency	TX 2462MHz
------	---------	-----------	------------



Antenna at Vertical Polarization

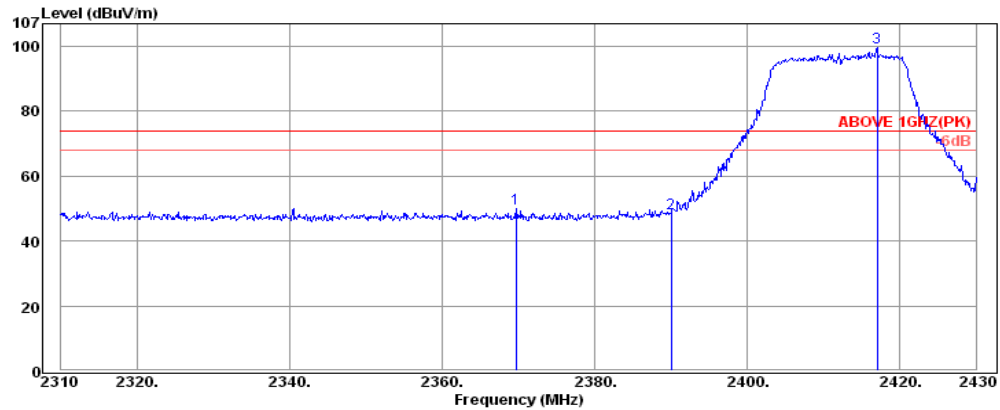
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2465.76	32.25	6.16	70.77	109.18	---	---	Peak
2483.52	32.28	6.19	29.29	67.76	74.00	6.24	Peak
2483.60	32.28	6.19	32.30	70.77	74.00	3.23	Peak



Antenna at Vertical Polarization

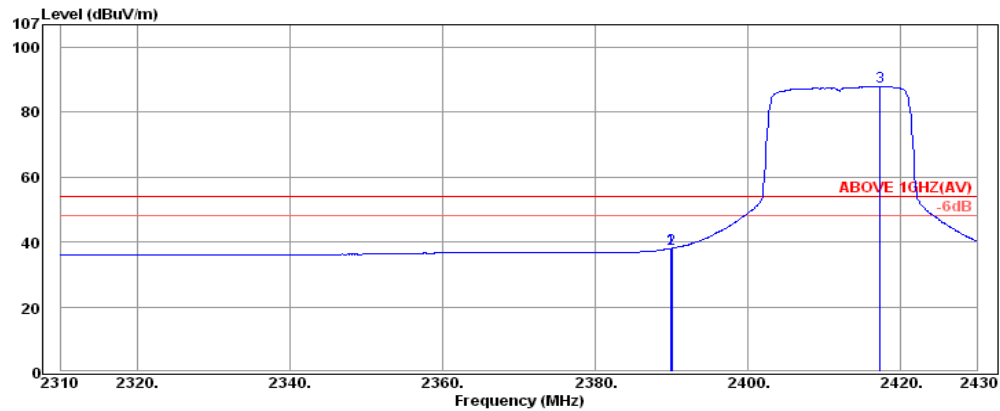
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.00	32.25	6.17	60.54	98.96	---	---	Average
2483.52	32.28	6.19	12.98	51.45	54.00	2.55	Average
2483.68	32.28	6.19	12.87	51.34	54.00	2.66	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

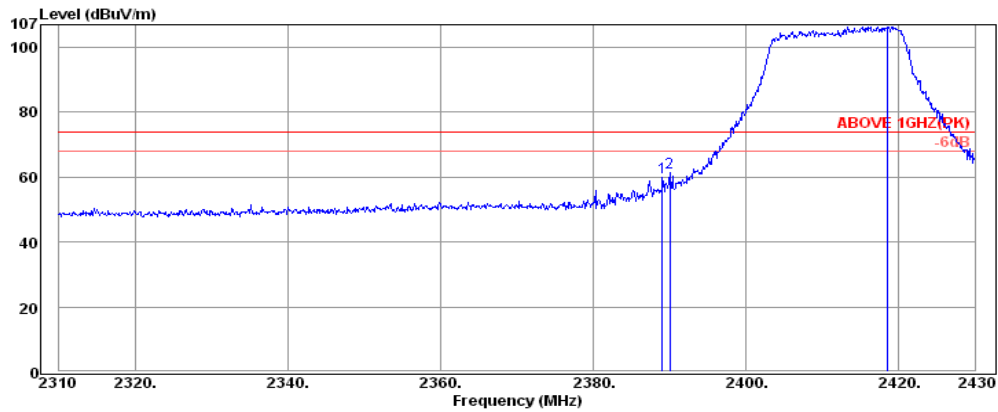
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2369.64	32.13	5.71	12.16	50.00	74.00	24.00	Peak
2390.04	32.16	5.72	10.78	48.66	74.00	25.34	Peak
2417.04	32.18	5.74	61.68	99.60	---	---	Peak



Antenna at Horizontal Polarization

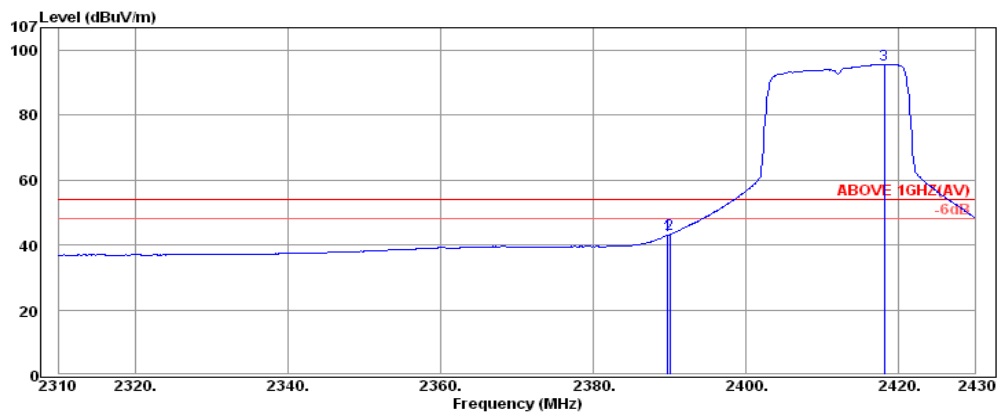
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	5.72	0.12	38.00	54.00	16.00	Average
2390.04	32.16	5.72	0.16	38.04	54.00	15.96	Average
2417.28	32.18	5.74	50.04	87.96	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

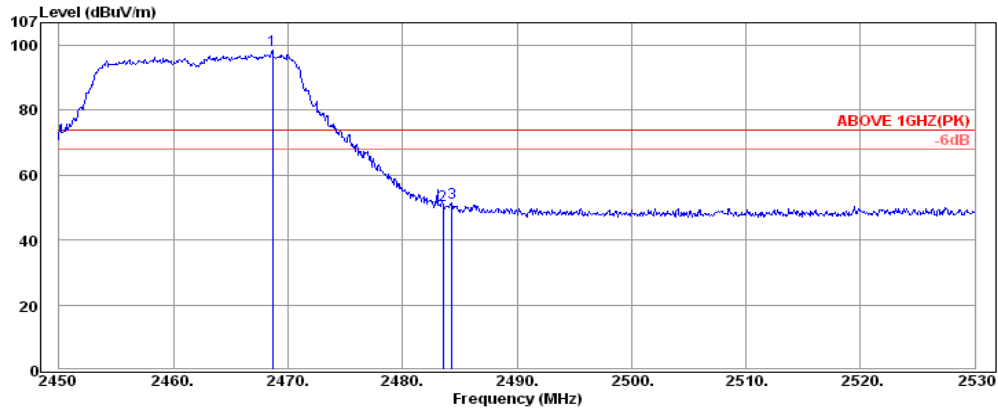
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.08	32.16	5.72	21.91	59.79	74.00	14.21	Peak
2390.04	32.16	5.72	23.45	61.33	74.00	12.67	Peak
2418.60	32.18	5.74	68.52	106.44	---	---	Peak



Antenna at Vertical Polarization

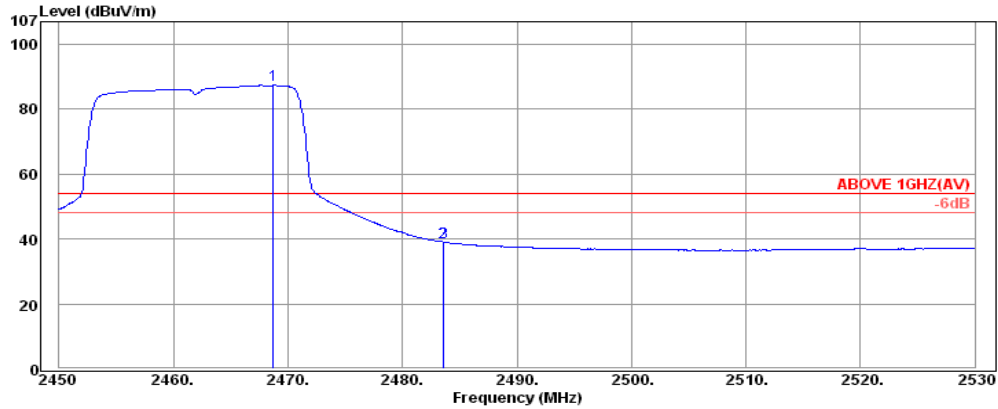
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	5.72	5.22	43.10	54.00	10.90	Average
2390.04	32.16	5.72	5.37	43.25	54.00	10.75	Average
2418.12	32.18	5.74	57.86	95.78	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

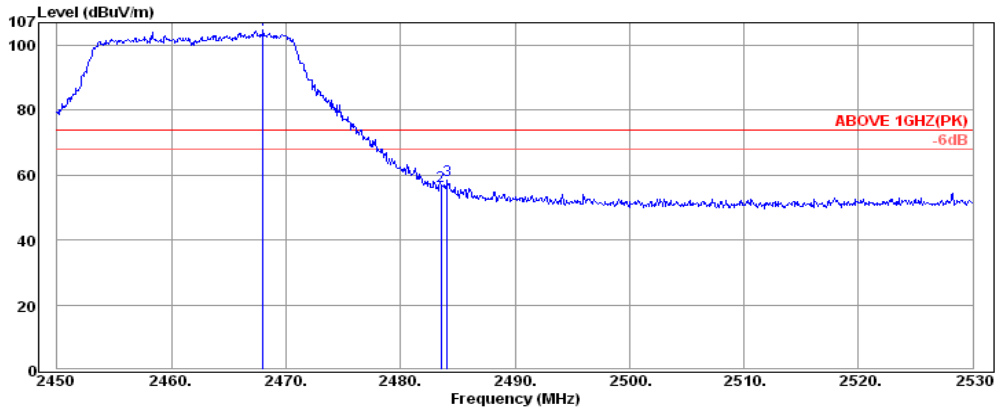
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.64	32.25	5.80	60.33	98.38	---	---	Peak
2483.52	32.28	5.82	12.53	50.63	74.00	23.37	Peak
2484.32	32.28	5.82	13.25	51.35	74.00	22.65	Peak



Antenna at Horizontal Polarization

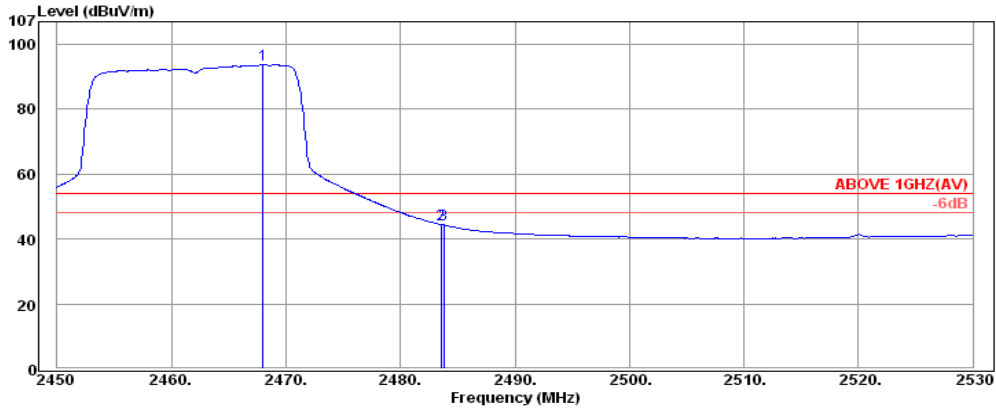
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.72	32.25	5.80	49.35	87.40	---	---	Average
2483.52	32.28	5.82	1.00	39.10	54.00	14.90	Average
2483.60	32.28	5.82	0.96	39.06	54.00	14.94	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

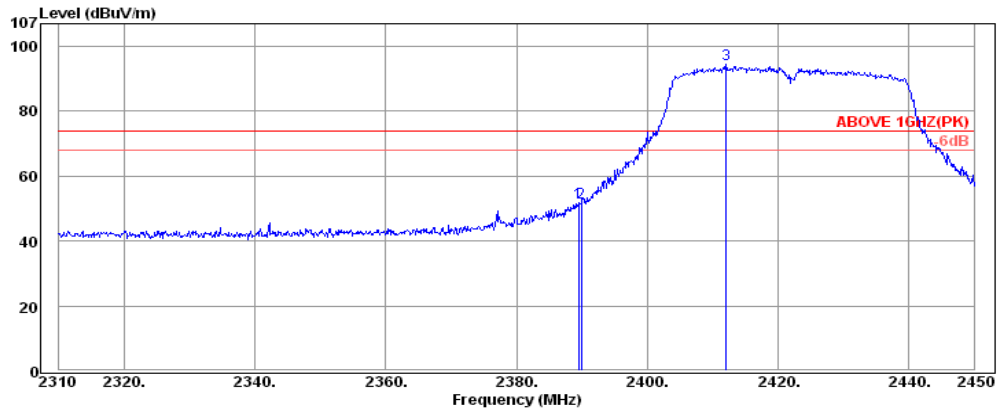
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.00	32.25	5.80	66.60	104.65	---	---	Peak
2483.52	32.28	5.82	18.35	56.45	74.00	17.55	Peak
2484.08	32.28	5.82	20.27	58.37	74.00	15.63	Peak



Antenna at Vertical Polarization

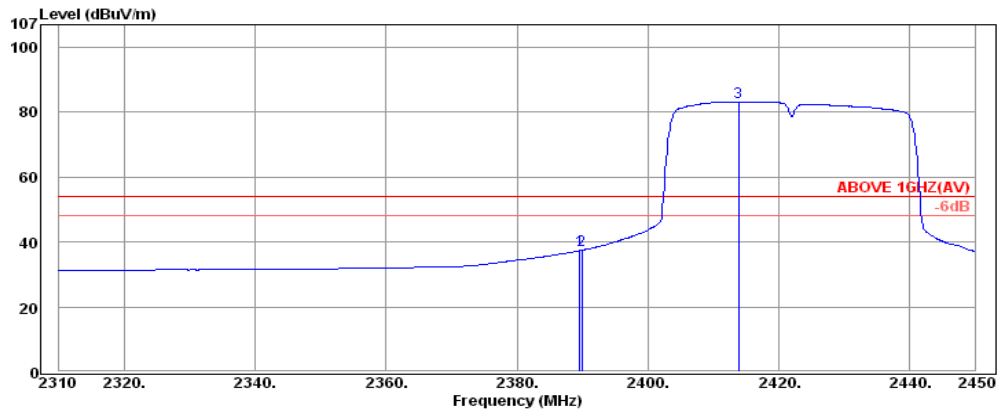
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.00	32.25	5.80	55.67	93.72	---	---	Average
2483.52	32.28	5.82	6.39	44.49	54.00	9.51	Average
2483.76	32.28	5.82	6.21	44.31	54.00	9.69	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

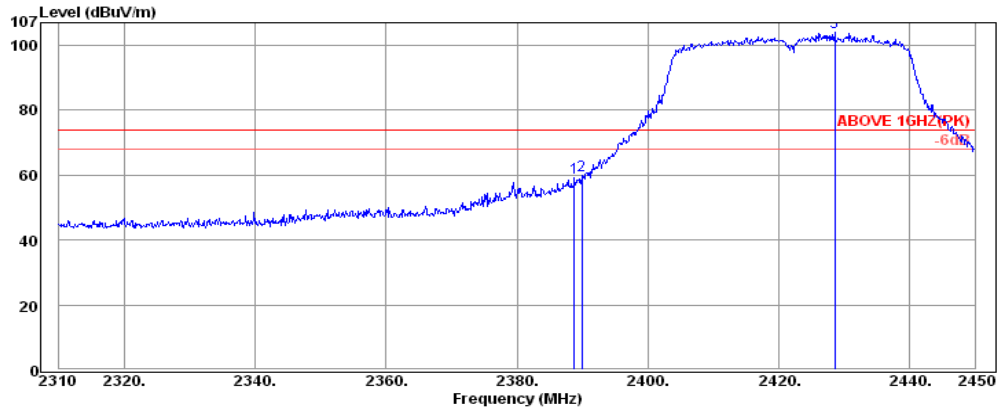
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.52	32.16	6.08	13.78	52.02	74.00	21.98	Peak
2389.94	32.16	6.08	13.62	51.86	74.00	22.14	Peak
2412.06	32.18	6.11	56.22	94.51	---	---	Peak



Antenna at Horizontal Polarization

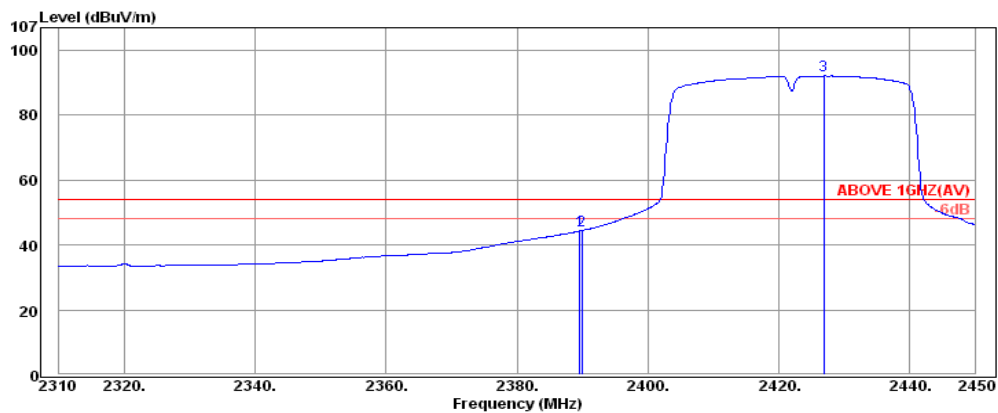
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.66	32.16	6.08	-0.84	37.40	54.00	16.60	Average
2389.94	32.16	6.08	-0.70	37.54	54.00	16.46	Average
2413.88	32.18	6.11	44.90	83.19	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

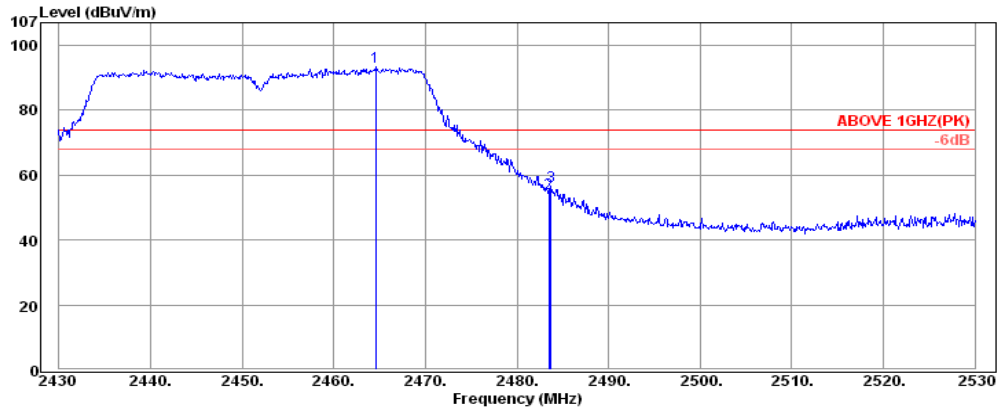
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.82	32.16	6.08	20.90	59.14	74.00	14.86	Peak
2389.94	32.16	6.08	21.66	59.90	74.00	14.10	Peak
2428.58	32.20	6.13	65.68	104.01	---	---	Peak



Antenna at Vertical Polarization

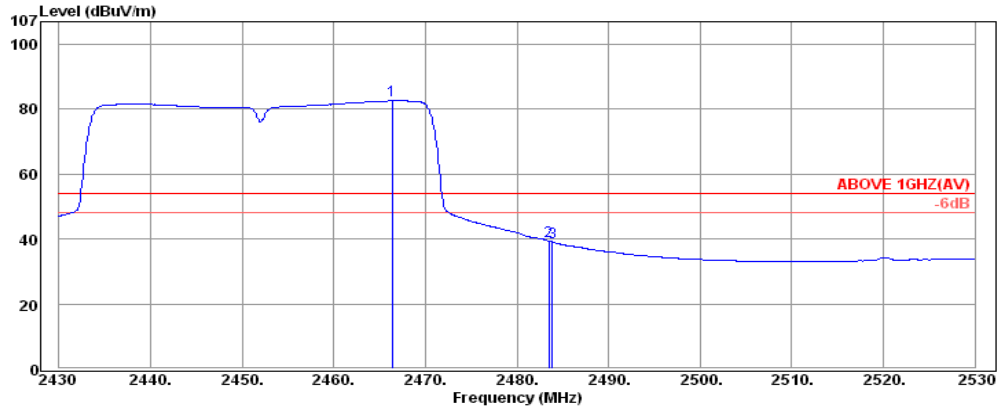
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.66	32.16	6.08	6.11	44.35	54.00	9.65	Average
2389.94	32.16	6.08	6.25	44.49	54.00	9.51	Average
2426.90	32.20	6.13	53.79	92.12	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
------	--------------	-----------	------------



Antenna at Horizontal Polarization

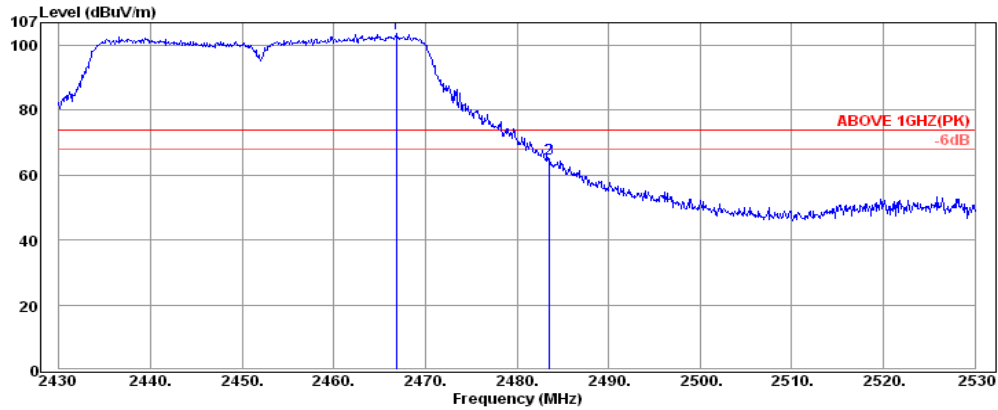
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.60	32.25	6.16	54.86	93.27	---	---	Peak
2483.50	32.28	6.19	15.97	54.44	74.00	19.56	Peak
2483.70	32.28	6.19	18.22	56.69	74.00	17.31	Peak



Antenna at Horizontal Polarization

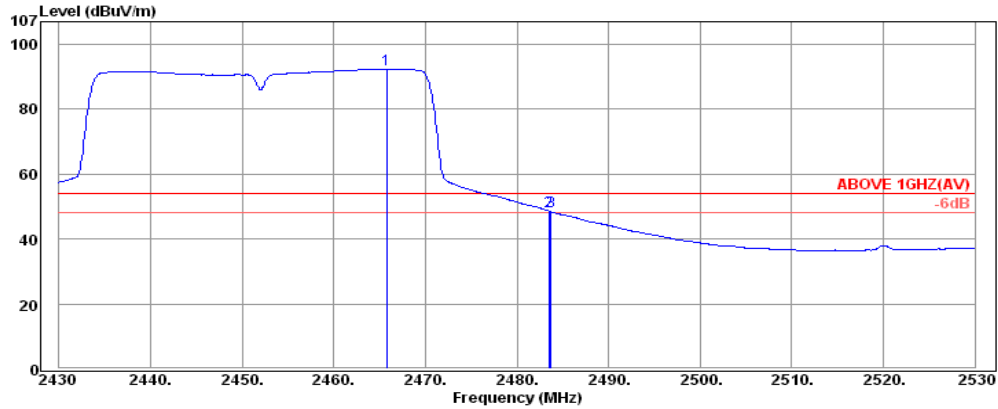
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2466.40	32.25	6.16	44.23	82.64	---	---	Average
2483.50	32.28	6.19	0.95	39.42	54.00	14.58	Average
2483.90	32.28	6.19	0.60	39.07	54.00	14.93	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
------	--------------	-----------	------------



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2466.80	32.25	6.17	65.12	103.54	---	---	Peak
2483.50	32.28	6.19	26.79	65.26	74.00	8.74	Peak
2483.60	32.28	6.19	26.74	65.21	74.00	8.79	Peak



Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2465.80	32.25	6.16	54.05	92.46	---	---	Average
2483.50	32.28	6.19	10.17	48.64	54.00	5.36	Average
2483.70	32.28	6.19	9.96	48.43	54.00	5.57	Average

6.5.3. Emissions outside the frequency band:

The emissions (up to 25GHz) not reported for there is no emission be found.

6.5.3.1. Antenna #1: ACM3-5036-A1-CC-S (Integrated Antenna)

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4925.00	34.27	8.57	6.94	49.78	54.00	4.22	Peak
7385.00	35.80	10.15	-0.99	44.96	54.00	9.04	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4925.00	34.27	8.57	6.94	49.78	54.00	4.22	Peak
7385.00	35.80	10.15	-0.99	44.96	54.00	9.04	Peak

Mode	802.11g	Frequency	TX 2437MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4865.00	34.24	8.23	8.70	51.17	54.00	2.83	Peak
7300.00	35.80	9.82	3.12	48.74	54.00	5.26	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4885.00	34.26	8.47	4.87	47.60	54.00	6.40	Peak
7310.00	35.80	9.82	0.04	45.66	54.00	8.34	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4865.00	34.24	8.23	10.65	53.12	54.00	0.88	Peak
7300.00	35.80	9.82	1.57	47.19	54.00	6.81	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	3.24	45.84	54.00	8.16	Peak
7310.00	35.80	9.82	-1.19	44.43	54.00	9.57	Peak

Mode	802.11n-HT40	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	7.18	49.78	54.00	4.22	Peak
7290.00	35.80	9.72	1.52	47.04	54.00	6.96	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	2.86	45.46	54.00	8.54	Peak
7300.00	35.80	9.82	0.34	45.96	54.00	8.04	Peak

6.5.3.2. Antenna #2: ACM3-5036-A1-CC-S (FX-ANT-A8)

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4925.00	34.27	8.57	11.04	53.88	54.00	0.12	Peak
7385.00	35.80	10.15	-1.55	44.40	54.00	9.60	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4925.00	34.27	8.57	1.35	44.19	54.00	9.81	Peak
7385.00	35.80	10.15	-2.12	43.83	54.00	10.17	Peak

Mode	802.11g	Frequency	TX 2437MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4885.00	34.26	8.47	11.86	54.59	74.00	19.41	Peak
4885.00	34.26	8.47	1.80	44.53	54.00	9.47	Average
7300.00	35.80	9.82	2.31	47.93	54.00	6.07	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4885.00	34.26	8.47	11.86	54.59	74.00	19.41	Peak
4885.00	34.26	8.47	1.80	44.53	54.00	9.47	Average
7300.00	35.80	9.82	2.31	47.93	54.00	6.07	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	7.99	50.59	54.00	3.41	Peak
7310.00	35.80	9.82	-0.18	45.44	54.00	8.56	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	1.89	44.49	54.00	9.51	Peak
7310.00	35.80	9.82	-1.52	44.10	54.00	9.90	Peak

Mode	802.11n-HT40	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	6.00	48.60	54.00	5.40	Peak
7300.00	35.80	9.82	0.50	46.12	54.00	7.88	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4885.00	34.26	8.47	1.53	44.26	54.00	9.74	Peak
7310.00	35.80	9.82	-0.61	45.01	54.00	8.99	Peak

6.5.3.3. Antenna #3: ANTDP-048A

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4925.00	34.27	8.57	11.52	54.36	74.00	19.64	Peak
4925.00	34.27	8.57	8.51	51.35	54.00	2.65	Average
7385.00	35.80	10.15	-0.74	45.21	54.00	8.79	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4925.00	34.27	8.57	9.25	52.09	54.00	1.91	Peak
7385.00	35.80	10.15	-1.88	44.07	54.00	9.93	Peak

Mode	802.11g	Frequency	TX 2437MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	11.29	53.89	54.00	0.11	Peak
7310.00	35.80	9.82	-1.15	44.47	54.00	9.53	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	10.49	53.09	54.00	0.91	Peak
7310.00	35.80	9.82	-0.51	45.11	54.00	8.89	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	8.39	50.99	54.00	3.01	Peak
7310.00	35.80	9.82	-1.89	43.73	54.00	10.27	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	6.64	49.24	54.00	4.76	Peak
7300.00	35.80	9.82	1.20	46.82	54.00	7.18	Peak

Mode	802.11n-HT40	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	7.19	49.79	54.00	4.21	Peak
7310.00	35.80	9.82	-0.22	45.40	54.00	8.60	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	4.51	47.11	54.00	6.89	Peak
7290.00	35.80	9.72	1.23	46.75	54.00	7.25	Peak

6.5.3.4. Antenna #4: MR-1700-W

Mode	802.11b	Frequency	TX 2462MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4925.00	34.27	8.57	2.25	45.09	54.00	8.91	Peak
7385.00	35.80	10.15	-1.87	44.08	54.00	9.92	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4925.00	34.27	8.57	3.25	46.09	54.00	7.91	Peak
7385.00	35.80	10.15	-1.04	44.91	54.00	9.09	Peak

Mode	802.11g	Frequency	TX 2437MHz
------	---------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	10.32	52.92	54.00	1.08	Peak
7310.00	35.80	9.82	0.56	46.18	54.00	7.82	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	9.05	51.65	54.00	2.35	Peak
7310.00	35.80	9.82	-0.62	45.00	54.00	9.00	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	5.88	48.48	54.00	5.52	Peak
7310.00	35.80	9.82	-1.20	44.42	54.00	9.58	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	5.88	48.48	54.00	5.52	Peak
7310.00	35.80	9.82	-1.20	44.42	54.00	9.58	Peak

Mode	802.11n-HT40	Frequency	TX 2437MHz
------	--------------	-----------	------------

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	3.80	46.40	54.00	7.60	Peak
7310.00	35.80	9.82	-0.05	45.57	54.00	8.43	Peak

Antenna at Vertical Polarization

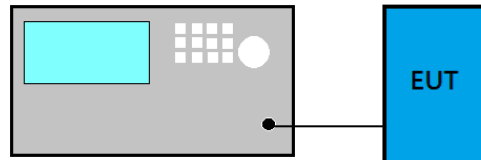
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
4875.00	34.25	8.35	3.43	46.03	54.00	7.97	Peak
7310.00	35.80	9.82	-1.42	44.20	54.00	9.80	Peak

6.5.4. Emissions in Non-restricted Frequency Bands

Pursuant to KDB 558074 D01 v03r05 that emission levels below the 15.209 Section 8.9 table 4 general radiated emissions limits is not required.

7. 6dB BANDWIDTH MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. Specification Limits

The minimum 6dB bandwidth shall be at least 500kHz.

7.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r05:

■ Option 2

- (1) Set RBW = 100 kHz.
- (2) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (3) Detector = Peak.
- (4) Trace mode = max hold.
- (5) Sweep = auto couple.
- (6) Allow the trace to stabilize.
- (7) Setting channel bandwidth function x dB to -6 dB to record the final bandwidth.

7.4. Test Results

Please refer to Appendix A

8. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Specification Limits

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm), and E.I.R.P.: 4Watt (36dBm)

8.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r05:

PKPM1 Peak power meter method:

EUT is connected to power sensor and record the maximum output power.

Method AVGPM (Measurement using an RF average power meter):

EUT is connected to power sensor and record the maximum average output power and duty cycle factor is added when duty cycle presented in section 3.5 is < 98%.

Method AVGSA-2 (Spectrum channel power)

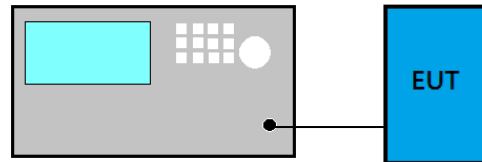
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.
- (8) Duty cycle factor is added when duty cycle presented in section 3.5 is < 98%.

8.4. Test Results

Please refer to Appendix A

9. EMISSION LIMITATIONS MEASUREMENT

9.1. Block Diagram of Test Setup



9.2. Specification Limits

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 is not required. In addition, radiated emissions which fall in restricted bands, as defined in Section 15.205(a)/RSS-Gen Section 8.10 table 6, must also comply with the radiated emission limits specified in Section 15.209(a)/RSS-Gen Section 8.9 table 4 (See Section 15.205(c)).

9.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r05:

■ Reference Level

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max PSD as reference level.

■ Emission Level Measurement

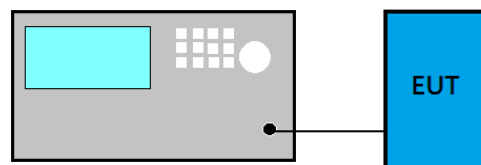
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize to find the max level.

9.4. Test Results

Please refer to Appendix A

10. POWER SPECTRAL DENSITY

10.1. Block Diagram of Test Setup



10.2. Specification Limits

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

10.3. Test Procedure

Following measurement procedure is reference to KDB 558074 D01 DTS Meas Guidance v03r05:

Method PKPSD (peak PSD)

- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- (4) Set the VBW $\geq 3 \times \text{RBW}$.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully stabilize.
- (9) Use the peak marker function to determine the maximum amplitude level.
- (10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Method AVGPSD-2

- (1) Using peak PSD procedure step 1 to step 4.
- (2) Detector = RMS detector
- (3) Sweep time = auto couple
- (4) Trace mode = trace averaging over a minimum of 100 traces
- (5) Use the peak marker function to determine the maximum amplitude level.
- (6) Duty cycle factor is added when duty cycle presented in section 3.5 $< 98\%$.
- (7) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

10.4. Test Results

Please refer to Appendix A

11.DEVIATION TO TEST SPECIFICATIONS

【NONE】