

**FCC 15.247& RSS-247
2.4 GHz Report**

for

LG Electronics Inc.

**222 LG-ro Jinwi-myeon 451-713
Pyeongtaek-si, Gyeonggi-do 451-713, Korea**

Product Name : Notebook Computer
Brand : LG
Model Name : 13Z970
FCC ID : BEJNT-13Z970
IC : 2703H-13Z970

**Prepared by: : AUDIX Technology Corporation,
EMC Department**



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APPENDIX A TEST PHOTOGRAPHS
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TEST REPORT CERTIFICATION

Applicant : LG Electronics Inc.
Factory : LG Electronics Nanjing New Technology Co., Ltd.
Product Name : Notebook Computer
Model No. : 13Z970
Serial No. : N/A
Brand Name : LG
Power Supply : DC 19V

Applicable Standards:

47 CFR FCC Part 15 Subpart C: 2016
RSS-Gen (Issue 4), November 2014
RSS-247 (Issue 1), May 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. 11. 07 ~ 29

Date of Report: 2016. 11. 29

Producer: Sabrina Wang
(Sabrina Wang/Administrator)

Signatory: Ben Cheng
(Ben Cheng/Manager)

1. REPORT HISTORY

Revision	Date	Revision Summary	Report Number
0	2016. 11. 29	Original Report.	EM-F160758

2. SUMMARY OF TEST RESULTS

Rule		Description	Results
FCC	IC		
15.207	RSS-Gen §8.8	Conducted Emission	PASS
15.247(d)/ 15.205	RSS-Gen §8.9 RSS-247 §5.5	Radiated Band Edge and Radiated Spurious Emission	PASS
15.247(a)(2)	RSS-247 §5.2(1)	6dB Bandwidth	PASS
15.247(b)(3)	RSS-247 §5.4(4)	Maximum Peak Output	PASS
15.247(d)	RSS-247 §5.5	Conducted Band Edges and Conducted Spurious Emission	PASS
15.247 (e)	RSS-247 §5.2(2)	Peak Power Spectral Density	PASS
15.203	----	Antenna Requirement	PASS

3. GENERAL INFORMATION

3.1. Description of EUT

Product	Notebook Computer													
Model Number	13Z970													
Serial Number	N/A													
Brand	LG													
Applicant	LG Electronics Inc. 222 LG-ro Jinwi-myeon 451-713 Pyeongtaek-si,Gyeonggi-do 451-713, Korea													
Factory	LG Electronics Nanjing New Technology Co., Ltd. No.346,Yaoxin Road, Economic & Technical Development Zone, Nanjing, China.													
RF Features	WLAN:802.11b/g/n Bluetooth: BT and BLE													
Transmit Type	<table><tr><th colspan="2">2.4 GHz</th></tr><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><tr><td>BT/BLE</td><td>1T1R</td></tr></table>		2.4 GHz		802.11b	1T1R	802.11g	1T1R	802.11n-HT20	2T2R	802.11n-HT40	2T2R	BT/BLE	1T1R
	2.4 GHz													
	802.11b	1T1R												
	802.11g	1T1R												
	802.11n-HT20	2T2R												
	802.11n-HT40	2T2R												
	BT/BLE	1T1R												
	<table><tr><th colspan="2">UNII Bands</th></tr><tr><td>802.11a</td><td>1T1R</td></tr><tr><td>802.11n-HT20/ 802.11ac-VHT20</td><td>2T2R</td></tr><tr><td>802.11n-HT40/ 802.11ac-VHT40</td><td>2T2R</td></tr><tr><td>802.11ac-VHT80</td><td>2T2R</td></tr></table>		UNII Bands		802.11a	1T1R	802.11n-HT20/ 802.11ac-VHT20	2T2R	802.11n-HT40/ 802.11ac-VHT40	2T2R	802.11ac-VHT80	2T2R		
	UNII Bands													
	802.11a	1T1R												
	802.11n-HT20/ 802.11ac-VHT20	2T2R												
	802.11n-HT40/ 802.11ac-VHT40	2T2R												
	802.11ac-VHT80	2T2R												
Date of Receipt of Sample	2016. 11. 07													

3.2. List of Key Components of EUT

Item	Vendor	Model name	Description
System	Microsoft	Windows 10	---
Main Board	LGIT	13/14/15Z970 Main	LGIT
	E&E	13/14/15Z970 Main	E&E
CPU (Socket: BGA1356)	Intel	i7-7500U	2.70GHz, up to 2.90GHz
	Intel	i5-7200U	2.50GHz, up to 2.71GHz
Memory	SAMSUNG	M471A1K43BB0-CPB	8GB DDR4 2133MHz
	SK hynix	HMA81GS6AFR8N-TF	8GB DDR4 2133MHz
LCD Panel	LG Display	LP133WF5-SPC1	Resolution: 1920 x 1080, 60Hz HDMI: 4K; (Including touch)
	LG Display	LP133WF4-SPC1	(Non touch)
Storage	SAMSUNG	MZ-NLN512A (P/N:MZNLN512HMJP)	512GB
	SK hynix	HFS512G39MND-3510A (P/N:HFS512G39MND)	512GB
Web Camera	Namuga	LC121 / LC119	1.00M/HD
WLAN Combo Card	Intel	8265D2W	802.11a/b/g/n/ac 2.4GHz/5GHz + BT 4.2 BLE FCC ID: PD98265D2 IC: 1000M-8265D2
Wireless LAN Antenna	LG (INPAQ)	WA-F-LBLB-04-047	FPCB Type Main: Black, Aux: Gray
Wireless LAN Board	HANNSTAR	13Z970 WLAN SUB	---
	E&E	13Z970 WLAN SUB	
HDMI Board	HANNSTAR	13Z970 HDMI SUB	---
	E&E	13Z970 HDMI SUB	
Keyboard	LG	13Z970 KR HMB8150ELB13	---
Touch Pad	LG	EBD62827901 FA167D-16H0	---
	LG	EBD61685203 SA167D-26H5	---
Type C to LAN	LG	10/100 Megabit Ethernet	---
	Type C to LAN: Shielded, Undetached, 0.12m		

Item	Vendor	Model name	Description
Battery Pack	LG	LBR1223E	60.06Wh, DC7.7V, 7800mAh
	LG	LBP7221E	34.61Wh, DC7.7V, 4495mAh
AC Adapter	LG (Lien Chang)	LCAP25B	I/P: AC 100-240V, 50-60Hz, 1.0A, O/P: DC 19V, 2.1A
	DC Power Cord: Non-Shielded, Undetached, 1.5m, Bonded a ferrite core AC Power Cord: Non-Shielded, Detached, 1.5m (2C)		

Remark: For a more detailed features description, please refer to the manufacturer's specifications or the user manual.

3.3. Antenna Information

2.4G Antenna					
No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	WA-F-LBLB-04-047 (Main)	INPAQ	FPCB	2400	0.76
				2450	2.31
				2500	3.26
2	WA-F-LBLB-04-047 (AUX)			2400	2.64
				2450	2.22
				2500	2.37

5G Antenna					
No.	Antenna Part Number	Manufacture	Antenna Type	Frequency (MHz)	Max Gain (dBi)
1	WA-F-LBLB-04-047 (Main)	INPAQ	FPCB	5100	1.49
				5400	2.74
				5800	2.48
2	WA-F-LBLB-04-047 (AUX)			5100	2.98
				5400	1.98
				5800	4.76

3.4. EUT Specifications Assessed in Current Report

Mode	Fundamental Range (MHz)	Channel Number	Modulation	Data Rate (Mbps)
802.11b	2412-2472	13	DSSS (DBPSK/DQPSK/CCK)	Up to 11
802.11g		13	OFDM (BPSK/QPSK/16QAM/64QAM)	Up to 54
802.11n-HT20				Up to 300
802.11n-HT40	2422-2462	9		
BLE	2402-2480	40	GFSK	1

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		
4	2427	3	2422
5	2432	4	2427
6	2437	5	2432
7	2442	6	2437
8	2447	7	2442
9	2452	8	2447
10	2457	9	2452
11	2462	10	2457
12	2467	11	2462
13	2472		

Channel List			
BLE			
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
37	2402	18	2442
00	2404	19	2444
01	2406	20	2446
02	2408	21	2448
03	2410	22	2450
04	2412	23	2452
05	2414	24	2454
06	2416	25	2456
07	2418	26	2458
08	2420	27	2460
09	2422	28	2462
10	2424	29	2464
38	2426	30	2466
11	2428	31	2468
12	2430	32	2470
13	2432	33	2472
14	2434	34	2474
15	2436	35	2476
16	2438	36	2478
17	2440	39	2480

3.5. Data Rate Relative to Output Power

802.11b			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	DBPSK	1	18.85
1	DQPSK	2	18.79
1	CCK	5.5	18.72
1	CCK	11	18.64

802.11g			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	BPSK	6	17.06
1	BPSK	9	17.03
1	QPSK	12	16.99
1	QPSK	18	16.94
1	16-QAM	24	16.9
1	16-QAM	36	16.82
1	64-QAM	48	16.75
1	64-QAM	54	16.68

802.11n-HT20				802.11n-HT40			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)	Channel	Modulation	Date Rate (Mbps)	Power (dBm)
1	BPSK	MCS8	15.96	3	BPSK	MCS8	13.99
1	QPSK	MCS9	15.88	3	QPSK	MCS9	13.92
1	QPSK	MCS10	15.82	3	QPSK	MCS10	13.87
1	16-QAM	MCS11	15.76	3	16-QAM	MCS11	13.78
1	16-QAM	MCS12	15.72	3	16-QAM	MCS12	13.74
1	64-QAM	MCS13	15.63	3	64-QAM	MCS13	13.65
1	64-QAM	MCS14	15.59	3	64-QAM	MCS14	13.61
1	64-QAM	MCS15	15.55	3	64-QAM	MCS15	13.56

BLE			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
0	GFSK	1	4.287

Note: Above results are assessed in peak power.

3.6. Test Configuration

Mode	Duty Cycle (x)	T (ms)	Duty Cycle Factor (dB)
802.11b	1.00	12.33	0
802.11g	1.00	2.030	0
802.11n-HT20	0.97	0.970	0.132
802.11n-HT40	0.94	0.490	0.269
BLE	0.8275	0.400	0.822

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 ^{Note1}	802.11b	1Mbps	1/2/10/11/12/13
		802.11g	6Mbps	1/2/10/11/12/13
		802.11n-HT20	MCS8	1/2/10/11/12/13
		802.11n-HT40	MCS8	3/4/8/9/10/11
		BLE	1Mbps	37/39
	Radiated Spurious Emission ^{Note1 & 2}	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
		BLE	1Mbps	37/17/39

Item		Mode	Data Rate	Test Channel
Conducted Test Case	6dB Bandwidth	802.11b	1Mbps	1/6/11/13
		802.11g	6Mbps	1/6/11/13
		802.11n-HT20	MCS8	1/6/11/13
		802.11n-HT40	MCS8	3/6/9/11
		BLE	1Mbps	37/17/39
	Peak Power Spectral Density	802.11b	1Mbps	1/6/11/13
		802.11g	6Mbps	1/6/11/13
		802.11n-HT20	MCS8	1/6/11/13
		802.11n-HT40	MCS8	3/6/9/11
		BLE	1Mbps	37/17/39
	Peak Output Power	802.11b	1Mbps	1/2/6/10/11/12/13
		802.11g	6Mbps	1/2/6/10/11/12/13
		802.11n-HT20	MCS8	1/2/6/10/11/12/13
		802.11n-HT40	MCS8	3/4/6/10/11
		BLE	1Mbps	37/17/39
	Band Edge	802.11b	1Mbps	1/11/13
		802.11g	6Mbps	1/11/13
		802.11n-HT20	MCS8	1/11/13
		802.11n-HT40	MCS8	3/9/11
		BLE	1Mbps	37/39
	Spurious Emission	802.11b	1Mbps	1/11/13
		802.11g	6Mbps	1/11/13
		802.11n-HT20	MCS8	1/11/13
		802.11n-HT40	MCS8	3/9/11
		BLE	1Mbps	37/17/39

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.

3.7. Tested Supporting System List

3.7.1. Support Peripheral Unit

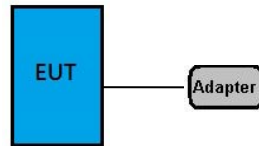
No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	SD Card	ADATA	N/A	N/A	N/A
2.	Earphone	APPLE	N/A	N/A	N/A
3.	LCD Monitor	VIEWSONIC	VP2780-4K	U8K153600277	N/A
4.	External HDD	SONY	HD-E1	3GDL0T155151 A12	N/A
5.	USB Mouse	DELL	MS111-T	CN-0KW2YH-7 1616-282-0XYP	N/A
6.	Earphone	HTC	Max300	N/A	N/A
7.	USB Mouse	ASUS	N6-mimi	N/A	N/A
8.	LCD TV	LG	22LK330-DB	N/A	N/A
9.	USB Storage	Transcend	N/A	N/A	N/A

3.7.2. Cable Lists

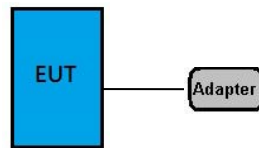
No.	Cable Description Of The Above Support Units
1.	N/A
2.	Earphone Cable: Unshielded, Detachable, 0.9m
3.	HDMI Cable: Shielded, Detachable, 1.8m
4.	USB Cable: Shielded, Detachable, 0.5m
5.	USB Cable: Shielded, Detachable, 1.8m
6.	Earphone Cable: Unshielded, Detachable, 1.5m
7.	USB Cable: Shielded, Detachable, 1.5m
8.	Power Cord: Shielded, Detachable, 1.5m HDMI Cable: Shielded, Detachable, 1.5m
9.	N/A

3.8. Setup Configuration

3.8.1. EUT Configuration for Power Line & Radiated Emission



3.8.2. EUT Configuration for Conducted Test Items



3.9. Operating Condition of EUT

Test program “DRTU” is used for enabling EUT WLAN function under continues transmitting and choosing data rate/ channel.

3.10. 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. 7 Shielded Room No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan Semi-Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan IC Test Site Registration No.: 5183B-1 Renewal on September 17, 2014 Fully Anechoic Chamber No. 53-11, Dingfu, Linkou Dist., New Taipei City 244, Taiwan IC Test Site Registration No.: 5183B-4 Renewal on August 31, 2015
NVLAP Lab. Code	:	200077-0
TAF Accreditation No	:	1724
FCC OET Designation	:	TW1004 & TW1090

3.11.Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conduction Test	150kHz~30MHz	±3.5dB
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	ESCI	101276	2016. 03. 31	1 Year
2.	A.M.N.	R&S	ESH2-Z5	100366	2016. 07. 27	1 Year
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1539-3	2016. 01. 21	1 Year
4.	Pulse Limiter	R&S	ESH3-Z2	101495	2016. 01. 17	1 Year
5.	Test Software	Audix	e3	V.120619C	N.C.R.	N.C.R.

4.2. Radiated Emission Measurement

4.2.1. Frequency Range 9kHz~1000MHz (Semi-Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	N9010A-526	MY53400071	2016. 09. 19	1 Year
2.	Test Receiver	R & S	ESCS30	100338	2016. 06. 22	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.120619C	N.C.R.	N.C.R.

4.2.2. Frequency Range Above 1GHz (Fully Anechoic Chamber)

Item	Type	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	2016. 08. 19	1 Year
2.	Amplifier	Agilent	8449B	3008A02678	2016. 03. 04	1 Year
3.	2.4GHz Notch Filter	K&L	7NSL10-2441.5E130.5-00	1	2016. 07. 27	1 Year
4.	Horn Antenna	ETS-Lindgren	3117	00135902	2016. 03. 05	1 Year
5.	Horn Antenna	EMCO	3116	2653	2016. 10. 24	1 Year
6.	Test Software	Audix	e3	V.6.110601	N.C.R.	N.C.R.

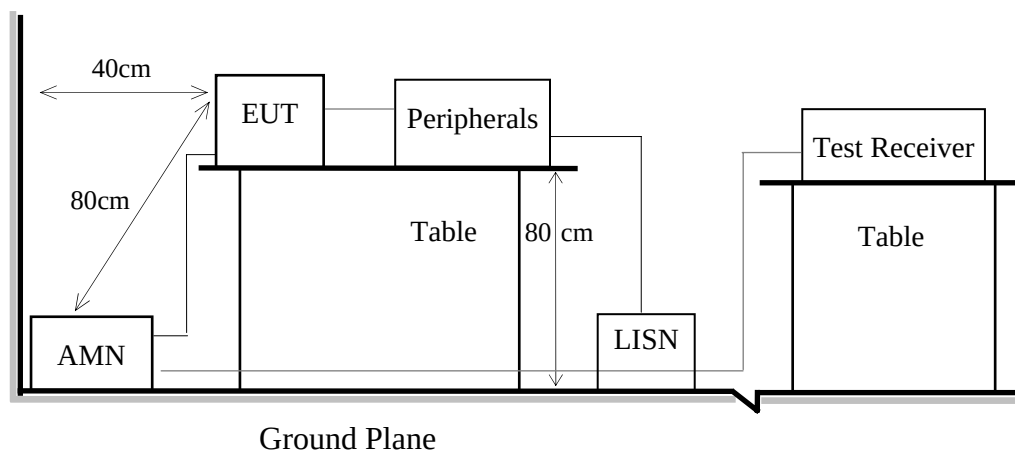
4.3. RF Conducted Measurement

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	2016. 10. 27	1 Year
3.	Power Sensor	Anritsu	MA2411B	1126096	2016. 10. 27	1 Year

5. CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup

Shielded Room Setup Diagram



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.

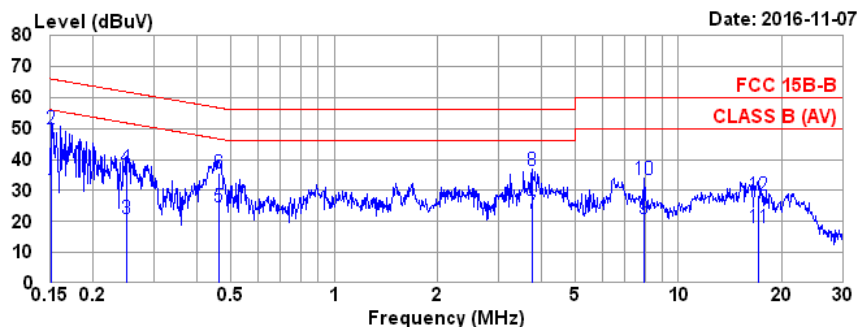
5.3. Test Procedure

- 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	2016/11/07	Temp./Hum.	24°C/53%
Test Voltage	AC 120V, 60Hz (via AC Adapter)		



Site no. : No.7 Shielded Room Data no. : 2
Condition : ESH2-Z5 366(ADAPTER) Phase : NEUTRAL
Limit : FCC 15B-B
Env. / Ins. : 24°C / 53% ESCI (1276) Engineer : Nick Du
EUT : 13Z970
Power Rating : 120Vac/60Hz
Test Mode : Operating

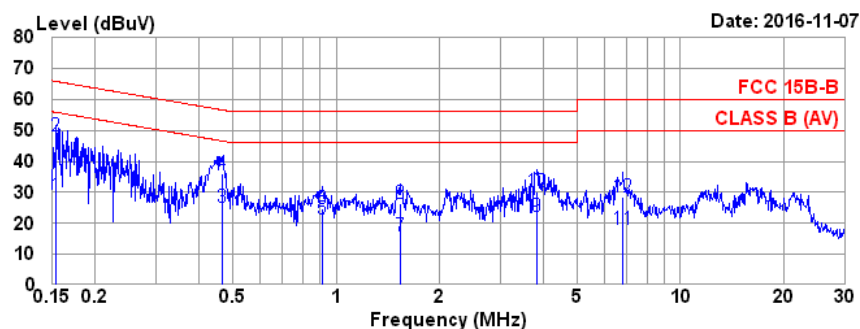
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Pulse Att. (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.151	0.19	0.03	9.85	20.16	30.23	55.96	25.73	Average
2	0.151	0.19	0.03	9.85	39.99	50.06	65.96	15.90	QP
3	0.251	0.18	0.04	9.85	10.95	21.02	51.73	30.71	Average
4	0.251	0.18	0.04	9.85	27.40	37.47	61.73	24.26	QP
5	0.464	0.19	0.04	9.85	14.83	24.91	46.63	21.72	Average
6	0.464	0.19	0.04	9.85	25.59	35.67	56.63	20.96	QP
7	3.759	0.31	0.11	9.89	12.23	22.54	46.00	23.46	Average
8	3.759	0.31	0.11	9.89	26.02	36.33	56.00	19.67	QP
9	7.977	0.48	0.16	9.87	10.36	20.87	50.00	29.13	Average
10	7.977	0.48	0.16	9.87	23.04	33.55	60.00	26.45	QP
11	17.018	0.88	0.23	9.91	7.12	18.14	50.00	31.86	Average
12	17.018	0.88	0.23	9.91	17.32	28.34	60.00	31.66	QP

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

AUDIX Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2016/11/07	Temp./Hum.	24°C/53%
Test Voltage	AC 120V, 60Hz (via AC Adapter)		



Site no. : No.7 Shielded Room Data no. : 1
Condition : ESH2-Z5 366(ADAPTER) Phase : LINE
Limit : FCC 15B-B
Env. / Ins. : 24°C / 53% ESCI (1276) Engineer : Nick Du
EUT : 13Z970
Power Rating : 120Vac/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	0.154	0.18	0.03	9.85	18.88	28.94	55.78	26.84	Average
2	0.154	0.18	0.03	9.85	37.99	48.05	65.78	17.73	QP
3	0.466	0.19	0.04	9.85	15.09	25.17	46.58	21.41	Average
4	0.466	0.19	0.04	9.85	26.15	36.23	56.58	20.35	QP
5	0.909	0.21	0.06	9.90	11.01	21.18	46.00	24.82	Average
6	0.909	0.21	0.06	9.90	14.63	24.80	56.00	31.20	QP
7	1.535	0.23	0.07	9.94	5.51	15.75	46.00	30.25	Average
8	1.535	0.23	0.07	9.94	16.13	26.37	56.00	29.63	QP
9	3.840	0.33	0.11	9.89	12.09	22.42	46.00	23.58	Average
10	3.840	0.33	0.11	9.89	19.87	30.20	56.00	25.80	QP
11	6.805	0.47	0.14	9.87	7.49	17.97	50.00	32.03	Average
12	6.805	0.47	0.14	9.87	18.23	28.71	60.00	31.29	QP

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

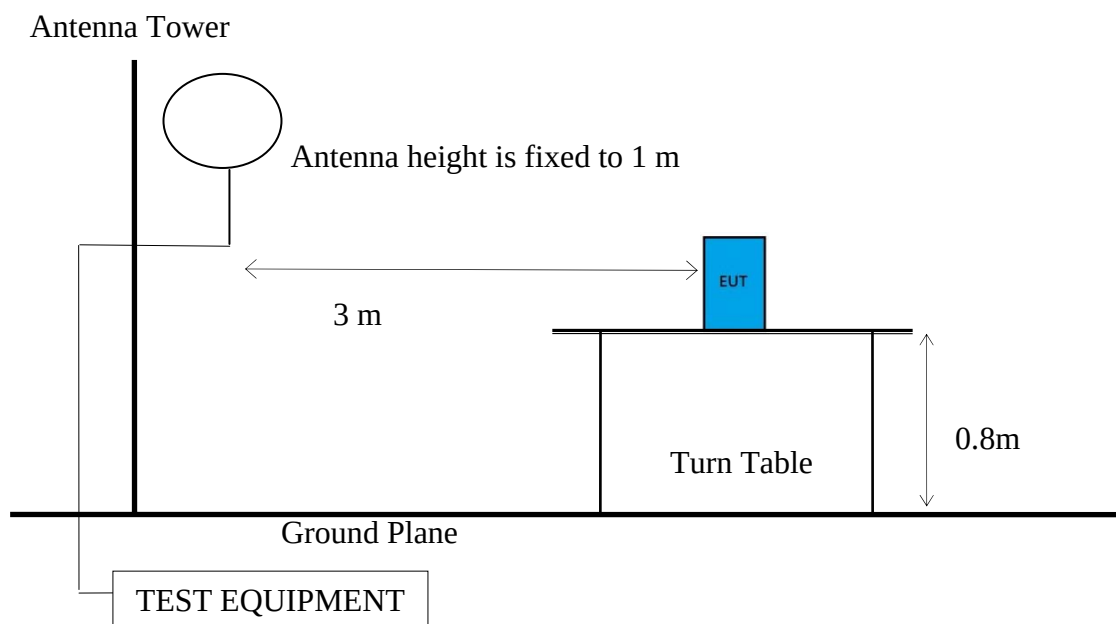
6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup

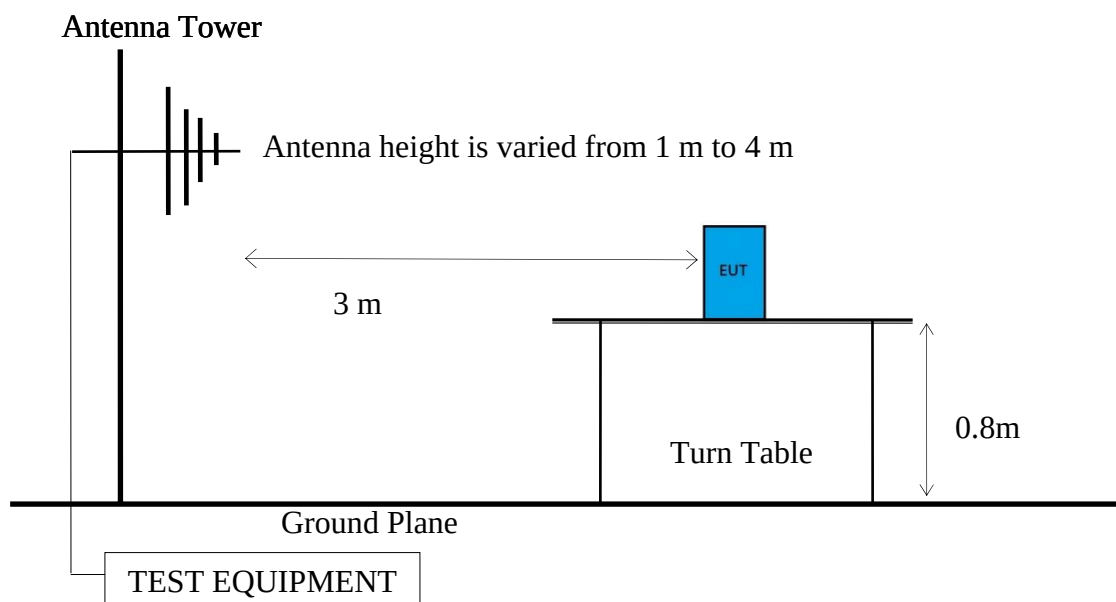
6.1.1. Block Diagram of connection between EUT and simulators

Indicated as section 3.7

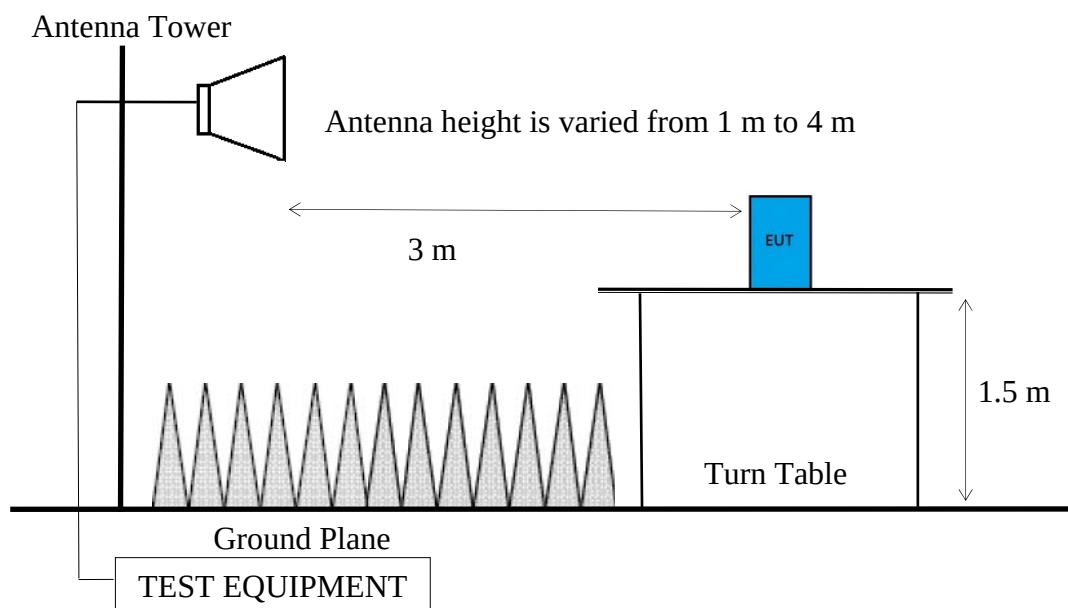
6.1.2. Semi Anechoic Chamber (3m) Setup Diagram for 9kHz-30MHz



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(kHz)
802.11b	12.33	0.081	0.081
802.11g	2.030	0.493	0.493
802.11n-HT20	0.970	1.031	1.031
802.11n-HT40	0.490	2.041	2.041
BLE	0.400	2.500	2.500

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+ DCCFDuty 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	2016/11/29	Temp./Hum.	25°C/56%
Test Voltage	AC 120V, 60Hz (via AC Adapter)		

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 Below 1 GHz

Worse mode as representative.

Mode	802.11g	Frequency	TX 2437MHz
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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
30.97	18.07	2.34	2.55	22.96	40.00	17.04	Peak
91.11	9.31	3.16	12.89	25.36	43.50	18.14	Peak
245.34	12.11	4.30	14.08	30.49	46.00	15.51	Peak
328.76	13.90	4.98	12.01	30.89	46.00	15.11	Peak
609.09	18.37	6.53	1.72	26.62	46.00	19.38	Peak
780.78	19.78	7.08	1.30	28.16	46.00	17.84	Peak

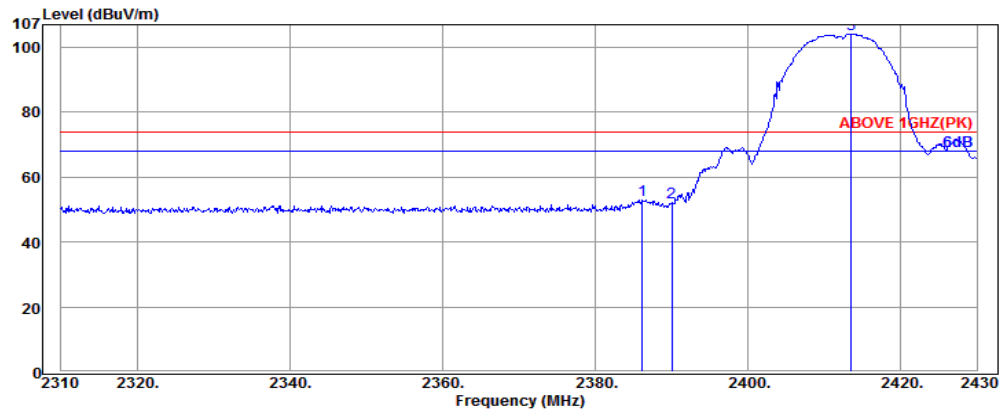
Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
30.97	18.07	2.34	16.84	37.25	40.00	2.75	Peak
42.61	11.98	2.55	11.45	25.98	40.00	14.02	Peak
244.37	12.06	4.29	16.60	32.95	46.00	13.05	Peak
330.70	13.93	4.99	10.01	28.93	46.00	17.07	Peak
677.96	18.65	6.67	1.38	26.70	46.00	19.30	Peak
768.17	19.65	7.03	2.51	29.19	46.00	16.81	Peak

6.5.2. Frequency Above 1 GHz to 10th harmonics

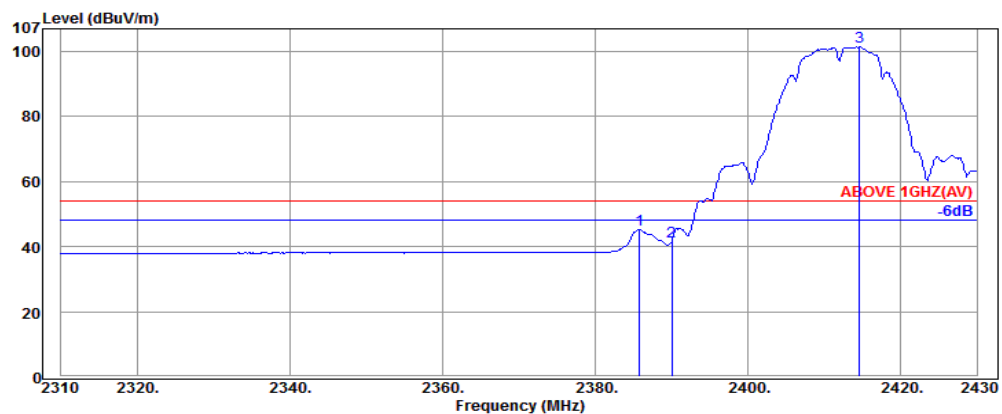
Band Edge:

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

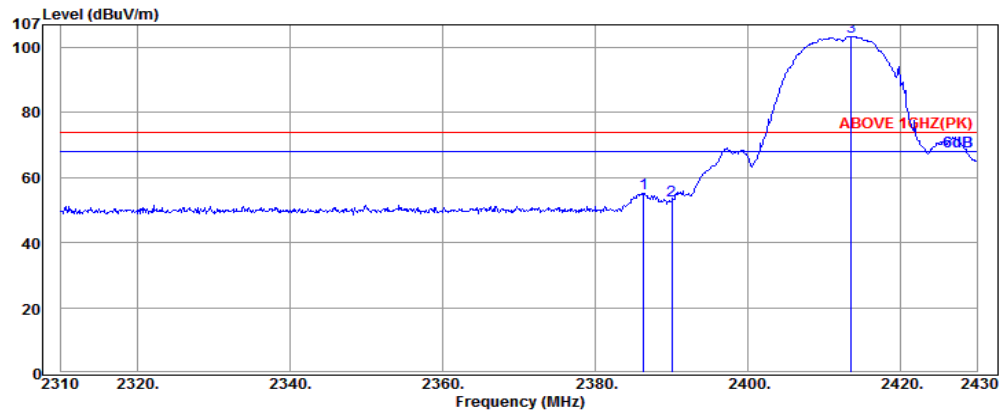
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.20	32.16	5.72	15.16	53.04	74.00	20.96	Peak
2390.04	32.16	5.72	14.37	52.25	74.00	21.75	Peak
2413.56	32.18	5.74	66.25	104.17	---	---	Peak



Antenna at Horizontal Polarization

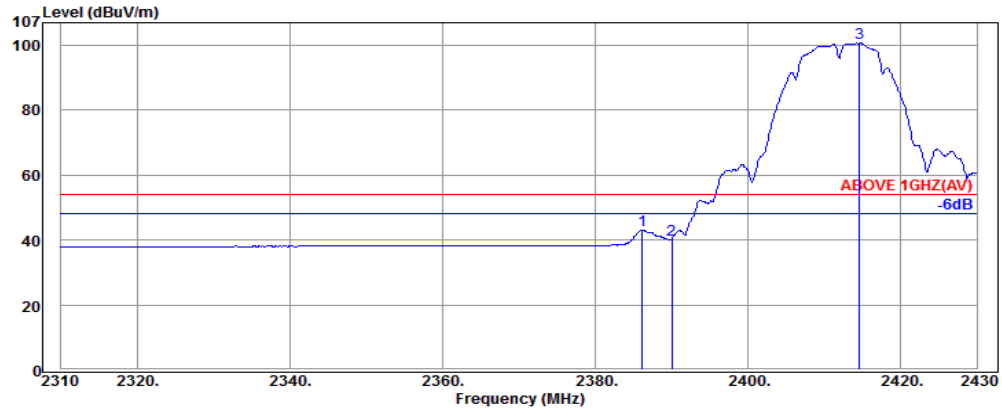
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.84	32.16	5.72	7.28	45.16	54.00	8.84	Average
2390.04	32.16	5.72	3.82	41.70	54.00	12.30	Average
2414.64	32.18	5.74	63.51	101.43	---	---	Average

Mode	802.11b	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

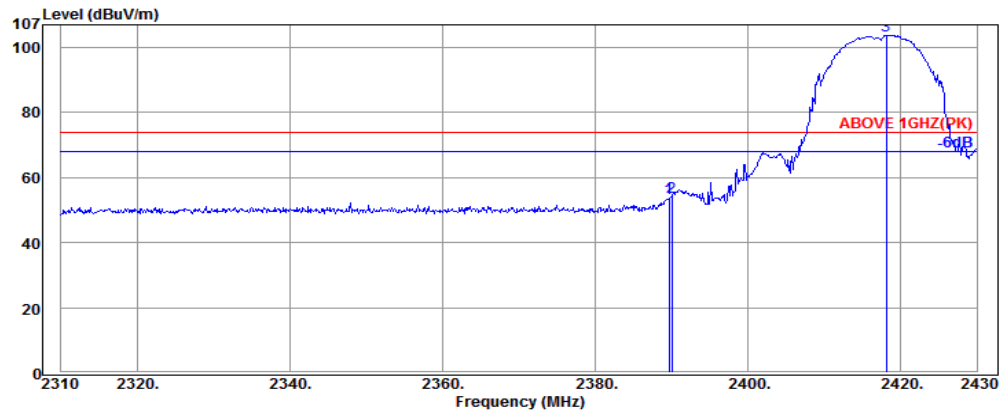
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	imits (dBμV/m)	Margin (dB)	Detector
2386.32	32.16	5.72	17.42	55.30	74.00	18.70	Peak
2390.04	32.16	5.72	15.12	53.00	74.00	21.00	Peak
2413.56	32.18	5.74	65.51	103.43	---	---	Peak



Antenna at Vertical Polarization

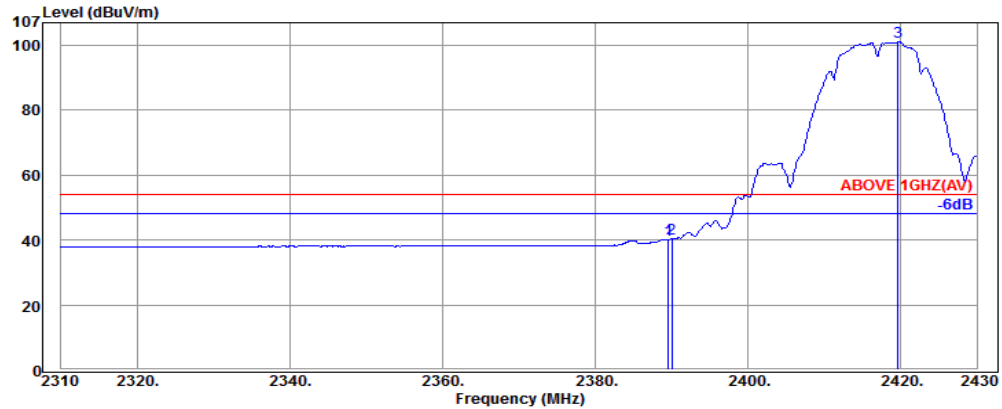
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2386.20	32.16	5.72	5.10	42.98	54.00	11.02	Average
2390.04	32.16	5.72	2.34	40.22	54.00	13.78	Average
2414.64	32.18	5.74	62.80	100.72	---	---	Average

Mode	802.11b	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

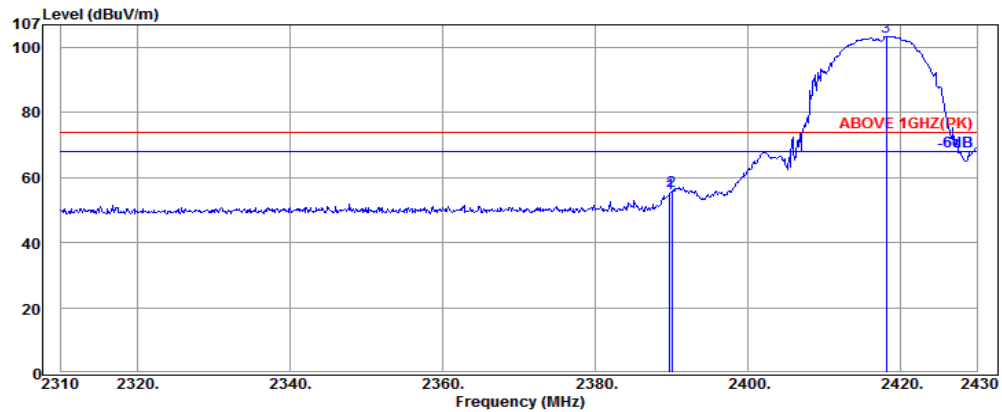
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	5.72	15.96	53.84	74.00	20.16	Peak
2390.04	32.16	5.72	16.04	53.92	74.00	20.08	Peak
2418.12	32.18	5.74	65.88	103.80	---	---	Peak



Antenna at Horizontal Polarization

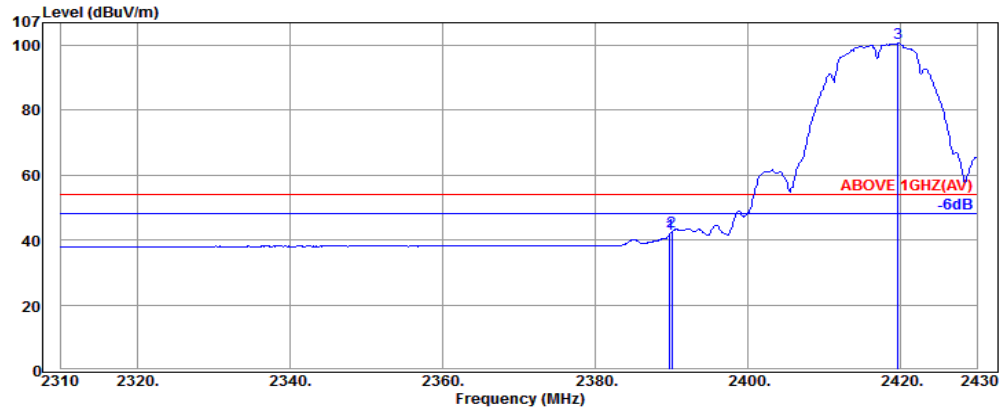
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.56	32.16	5.72	2.26	40.14	54.00	13.86	Average
2390.04	32.16	5.72	2.44	40.32	54.00	13.68	Average
2419.68	32.20	5.76	63.18	101.14	---	---	Average

Mode	802.11b	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

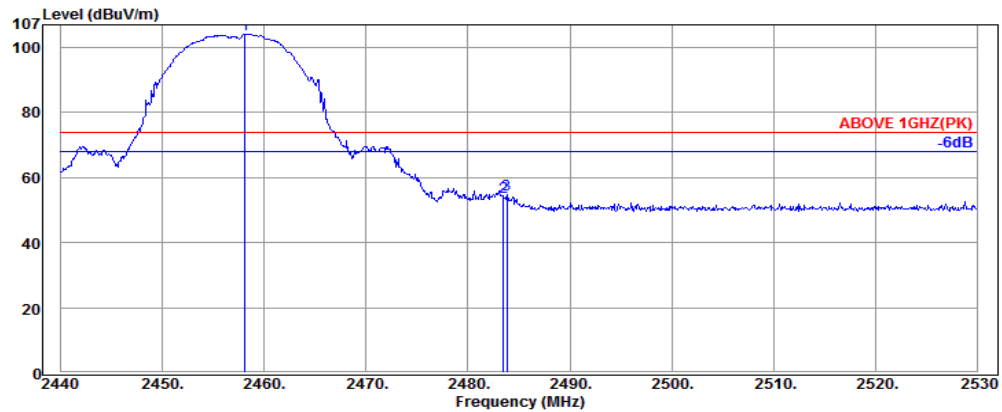
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	5.72	17.15	55.03	74.00	18.97	Peak
2390.04	32.16	5.72	18.08	55.96	74.00	18.04	Peak
2418.12	32.18	5.74	65.49	103.41	---	---	Peak



Antenna at Vertical Polarization

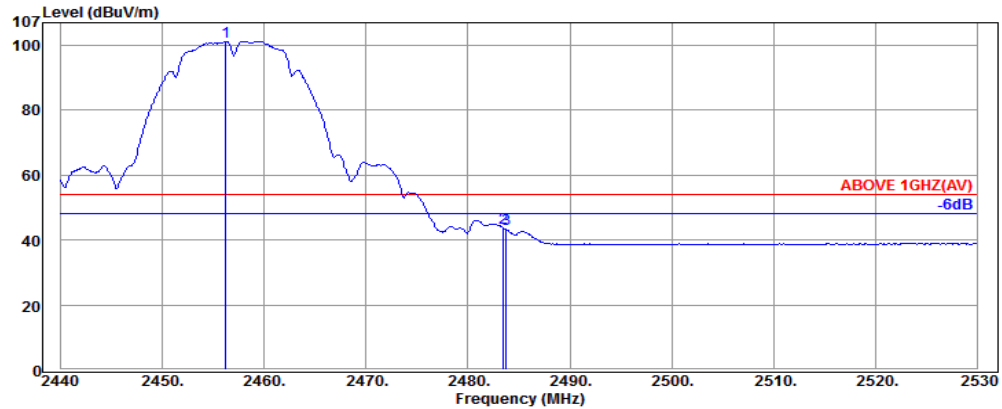
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	5.72	3.85	41.73	54.00	12.27	Average
2390.04	32.16	5.72	4.63	42.51	54.00	11.49	Average
2419.68	32.20	5.76	62.72	100.68	---	---	Average

Mode	802.11b	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

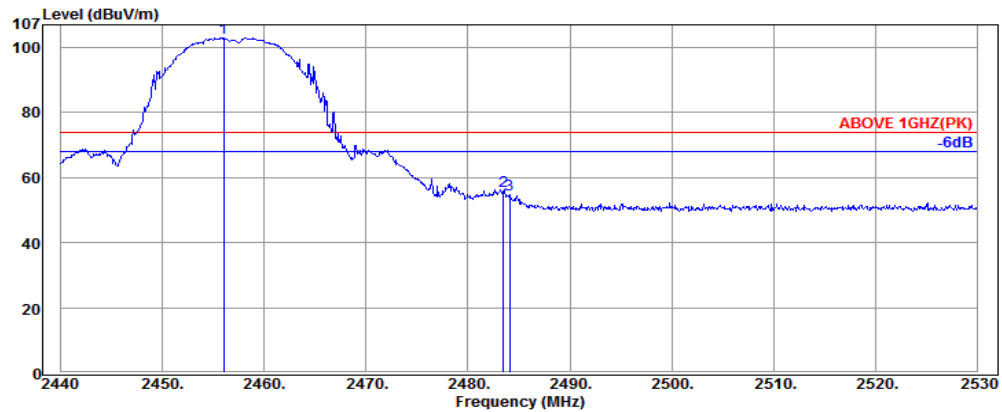
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.09	32.25	5.80	65.98	104.03	---	---	Peak
2483.47	32.28	5.82	16.00	54.10	74.00	19.90	Peak
2483.83	32.28	5.82	16.66	54.76	74.00	19.24	Peak



Antenna at Horizontal Polarization

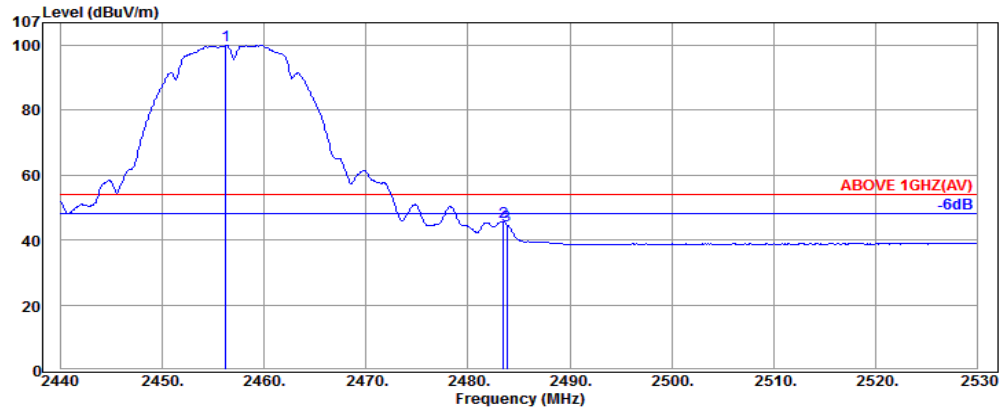
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.20	32.25	5.80	63.12	101.17	---	---	Average
2483.47	32.28	5.82	5.56	43.66	54.00	10.34	Average
2483.74	32.28	5.82	5.12	43.22	54.00	10.78	Average

Mode	802.11b	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

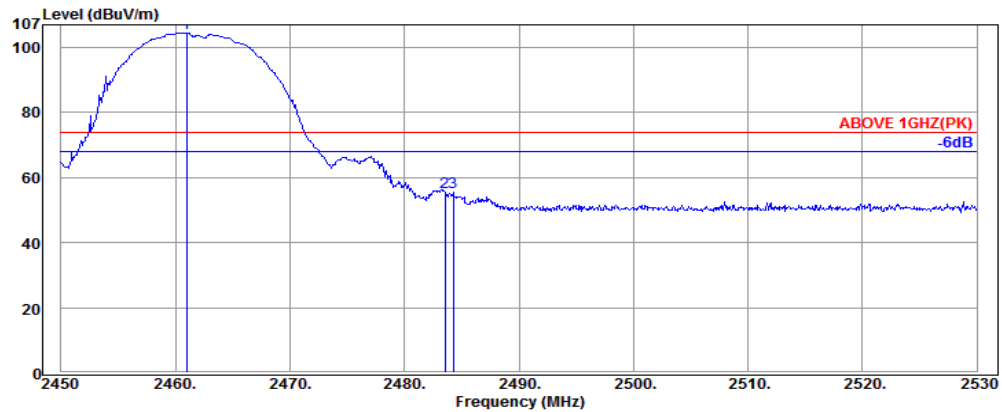
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.02	32.25	5.80	64.99	103.04	---	---	Peak
2483.47	32.28	5.82	17.97	56.07	74.00	17.93	Peak
2484.10	32.28	5.82	16.85	54.95	74.00	19.05	Peak



Antenna at Vertical Polarization

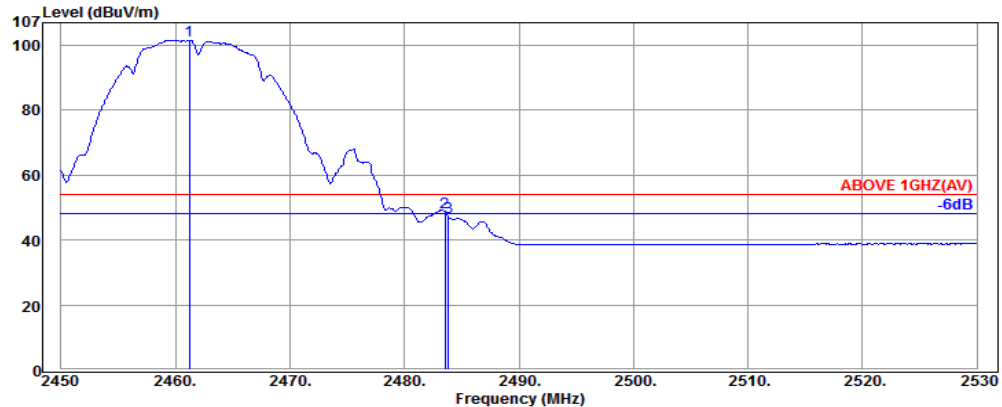
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2456.20	32.25	5.80	61.93	99.98	---	---	Average
2483.47	32.28	5.82	7.44	45.54	54.00	8.46	Average
2483.83	32.28	5.82	6.51	44.61	54.00	9.39	Average

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

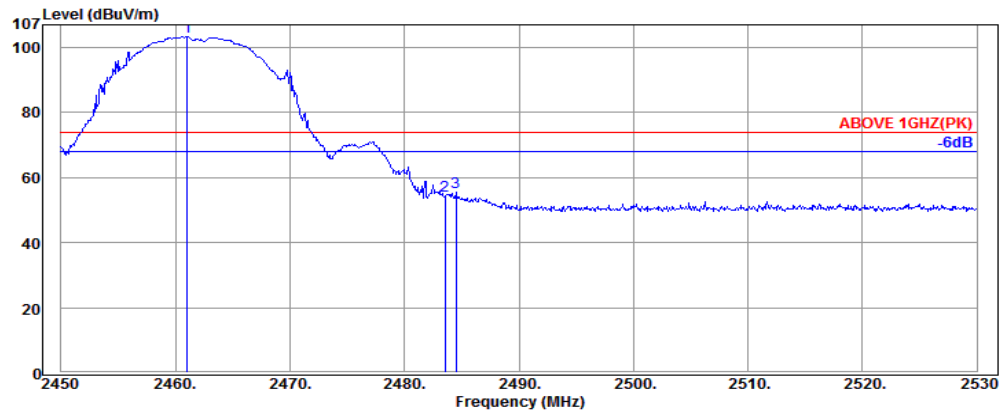
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.96	32.25	5.80	66.37	104.42	---	---	Peak
2483.52	32.28	5.82	17.31	55.41	74.00	18.59	Peak
2484.24	32.28	5.82	17.27	55.37	74.00	18.63	Peak



Antenna at Horizontal Polarization

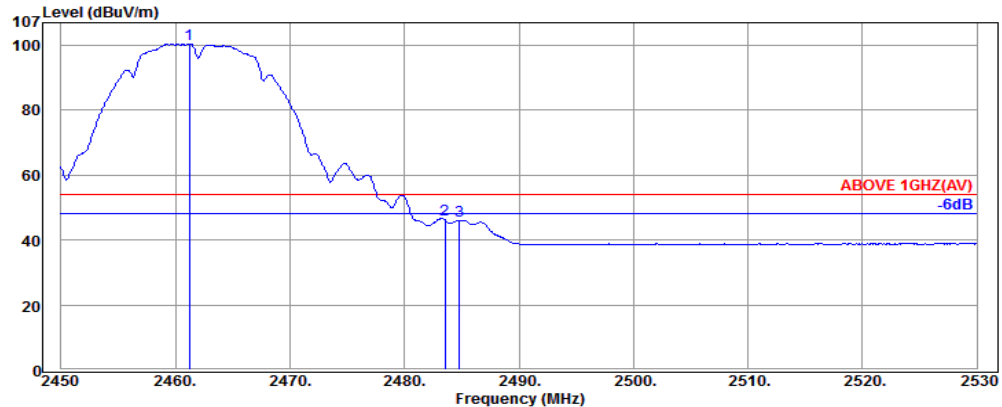
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	5.80	63.60	101.65	---	---	Average
2483.52	32.28	5.82	10.60	48.70	54.00	5.30	Average
2483.84	32.28	5.82	9.00	47.10	54.00	6.90	Average

Mode	802.11b	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

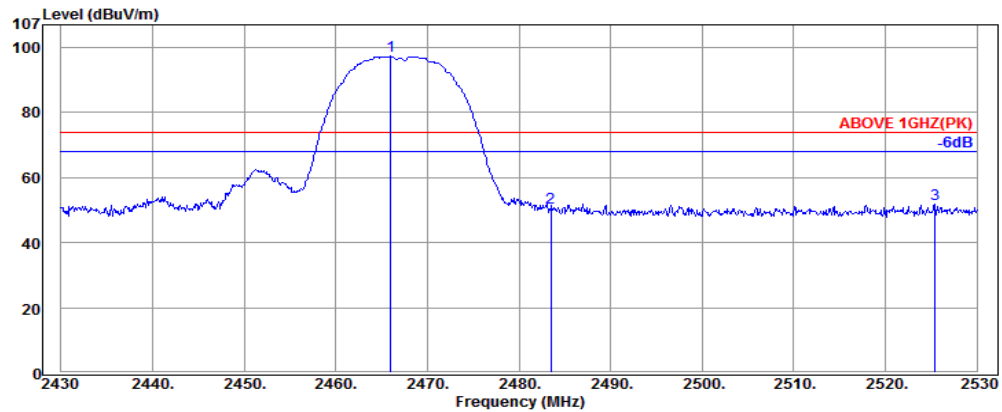
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.04	32.25	5.80	65.20	103.25	---	---	Peak
2483.52	32.28	5.82	16.16	54.26	74.00	19.74	Peak
2484.48	32.28	5.82	17.47	55.57	74.00	18.43	Peak



Antenna at Vertical Polarization

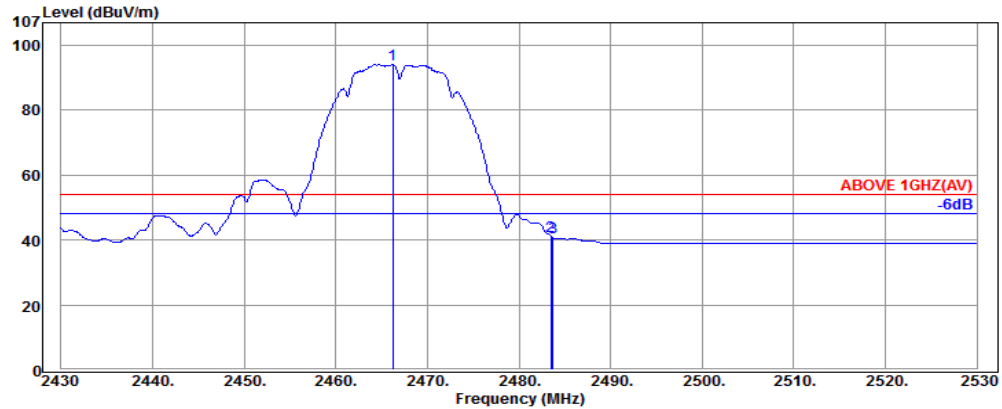
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.20	32.25	5.80	62.46	100.51	---	---	Average
2483.52	32.28	5.82	8.18	46.28	54.00	7.72	Average
2484.80	32.28	5.82	8.02	46.12	54.00	7.88	Average

Mode	802.11b	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

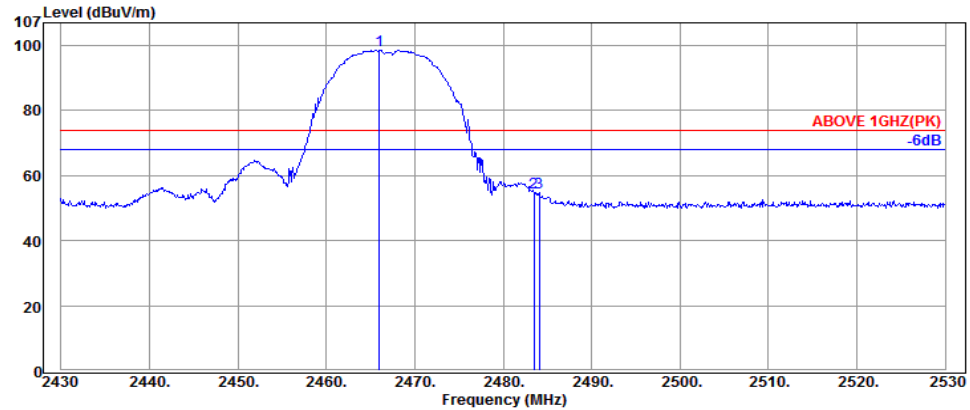
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2466.00	32.25	6.16	58.85	97.26	---	---	Peak
2483.50	32.28	6.19	12.16	50.63	74.00	23.37	Peak
2525.40	32.34	6.25	13.35	51.94	74.00	22.06	Peak



Antenna at Horizontal Polarization

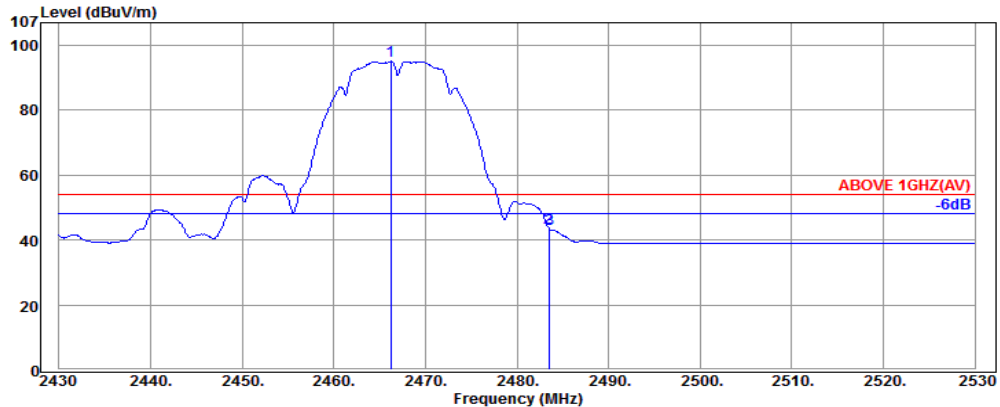
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2466.20	32.25	6.16	55.72	94.13	---	---	Average
2483.50	32.28	6.19	2.81	41.28	54.00	12.72	Average
2483.70	32.28	6.19	2.31	40.78	54.00	13.22	Average

Mode	802.11b	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

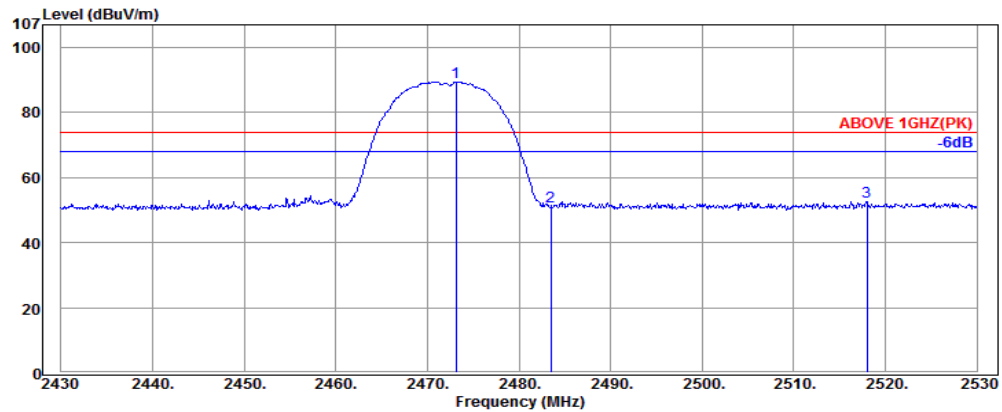
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2466.00	32.25	6.16	60.09	98.50	---	---	Peak
2483.50	32.28	6.19	16.19	54.66	74.00	19.34	Peak
2484.10	32.28	6.19	16.45	54.92	74.00	19.08	Peak



Antenna at Vertical Polarization

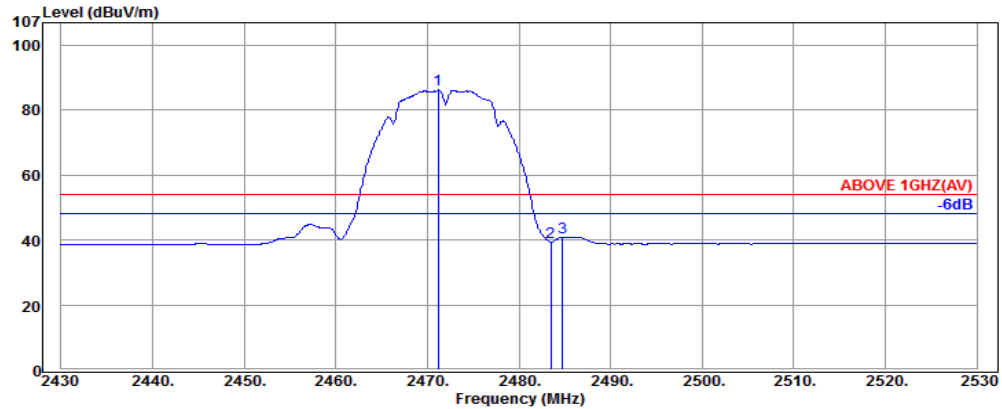
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2466.20	32.25	6.16	56.72	95.13	---	---	Average
2483.50	32.28	6.19	5.20	43.67	54.00	10.33	Average
2483.60	32.28	6.19	4.79	43.26	54.00	10.74	Average

Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

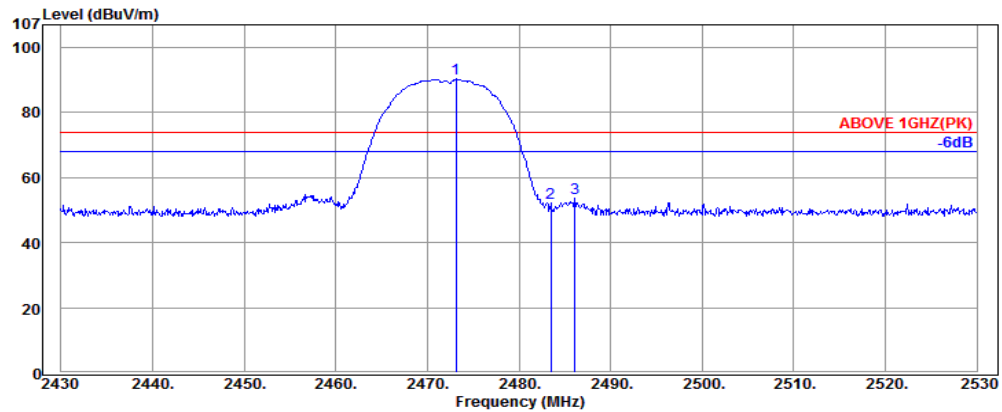
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2473.10	32.28	6.17	50.98	89.43	---	---	Peak
2483.50	32.28	6.19	12.53	51.00	74.00	23.00	Peak
2518.00	32.32	6.23	14.16	52.71	74.00	21.29	Peak



Antenna at Horizontal Polarization

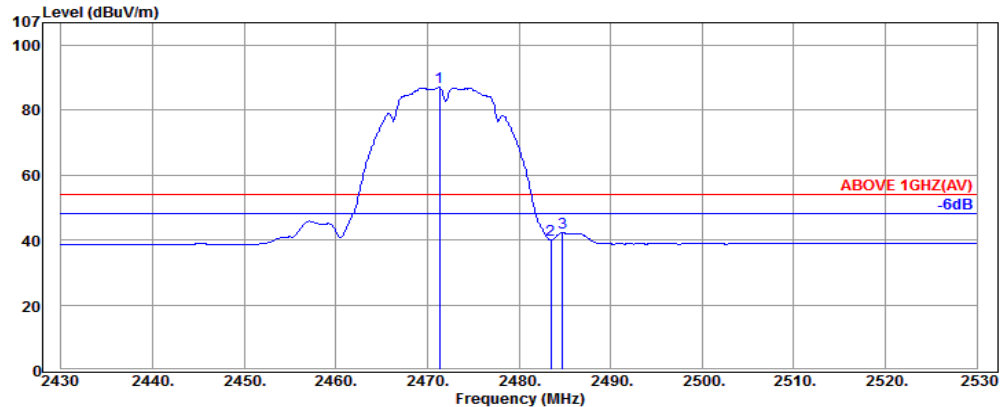
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2471.20	32.28	6.17	47.80	86.25	---	---	Average
2483.50	32.28	6.19	0.91	39.38	54.00	14.62	Average
2484.80	32.28	6.19	2.50	40.97	54.00	13.03	Average

Mode	802.11b	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

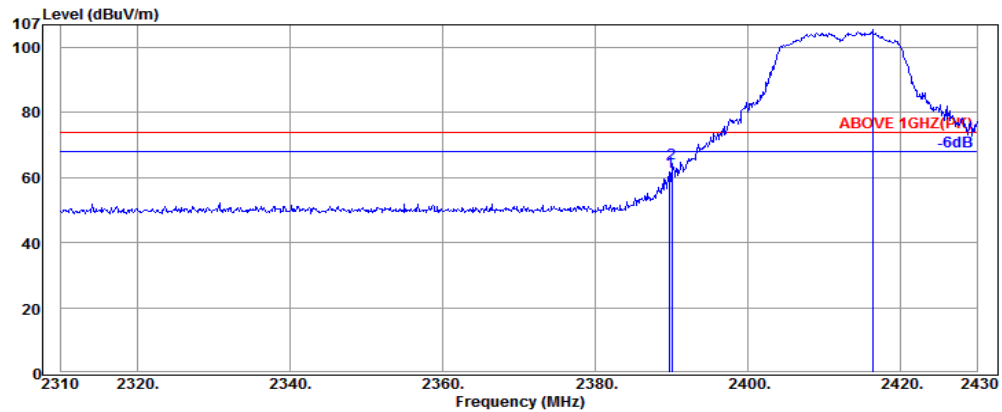
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2473.10	32.28	6.17	51.82	90.27	---	---	Peak
2483.50	32.28	6.19	13.83	52.30	74.00	21.70	Peak
2486.10	32.28	6.19	15.03	53.50	74.00	20.50	Peak



Antenna at Vertical Polarization

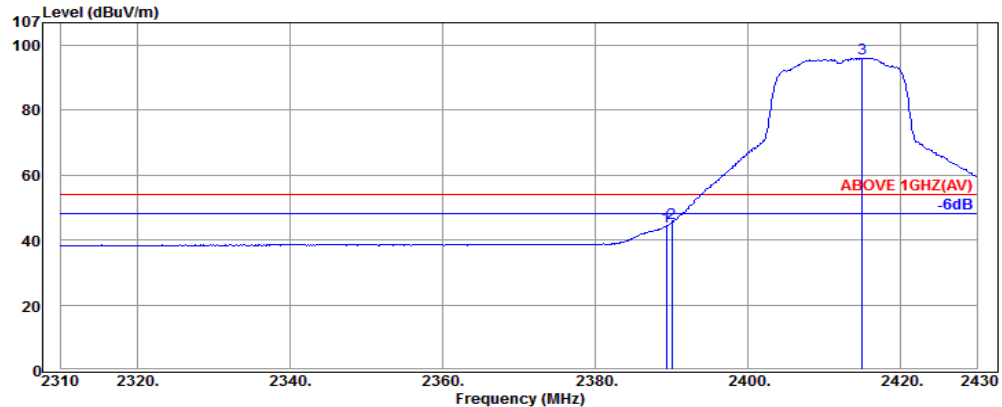
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2471.30	32.28	6.17	48.57	87.02	---	---	Average
2483.50	32.28	6.19	1.49	39.96	54.00	14.04	Average
2484.80	32.28	6.19	3.74	42.21	54.00	11.79	Average

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

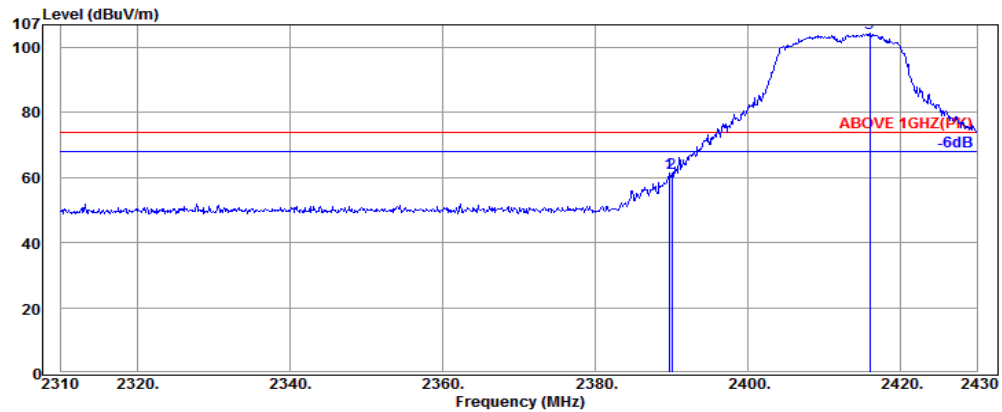
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.80	32.16	5.72	23.97	61.85	74.00	12.15	Peak
2390.04	32.16	5.72	26.35	64.23	74.00	9.77	Peak
2416.32	32.18	5.74	67.67	105.59	---	---	Peak



Antenna at Horizontal Polarization

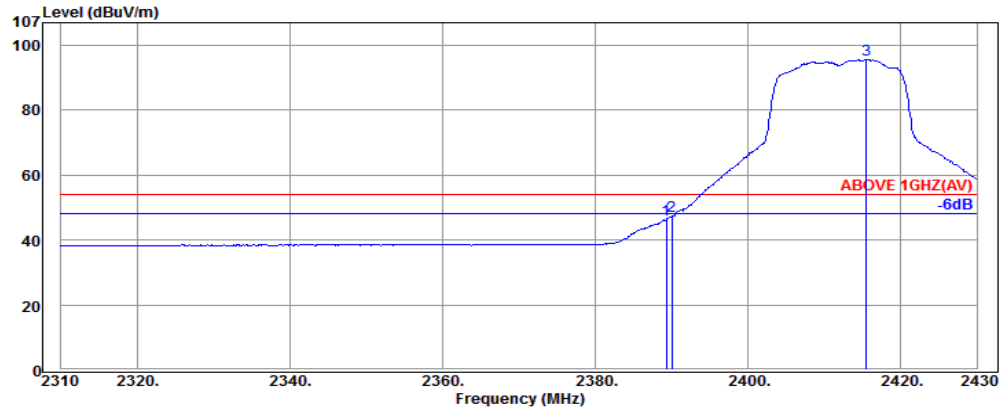
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.32	32.16	5.72	6.42	44.30	54.00	9.70	Average
2390.04	32.16	5.72	7.32	45.20	54.00	8.80	Average
2415.00	32.18	5.74	58.10	96.02	---	---	Average

Mode	802.11g	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

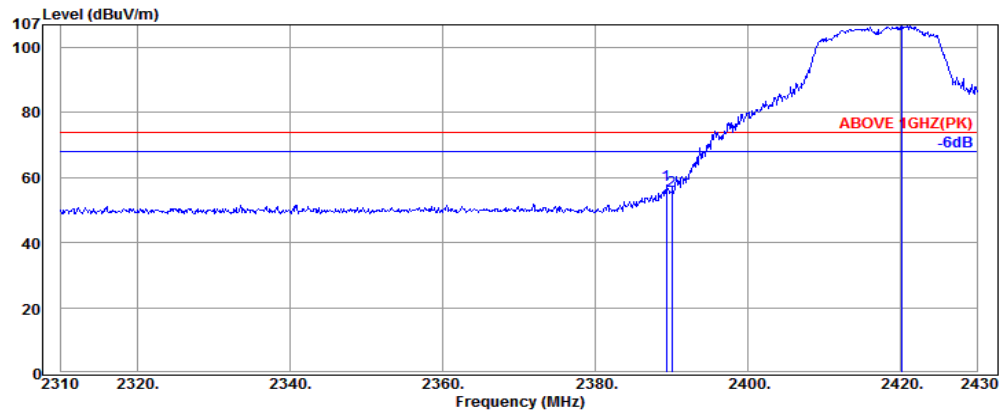
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.68	32.16	5.72	23.41	61.29	74.00	12.71	Peak
2390.04	32.16	5.72	23.62	61.50	74.00	12.50	Peak
2415.96	32.18	5.74	66.37	104.29	---	---	Peak



Antenna at Vertical Polarization

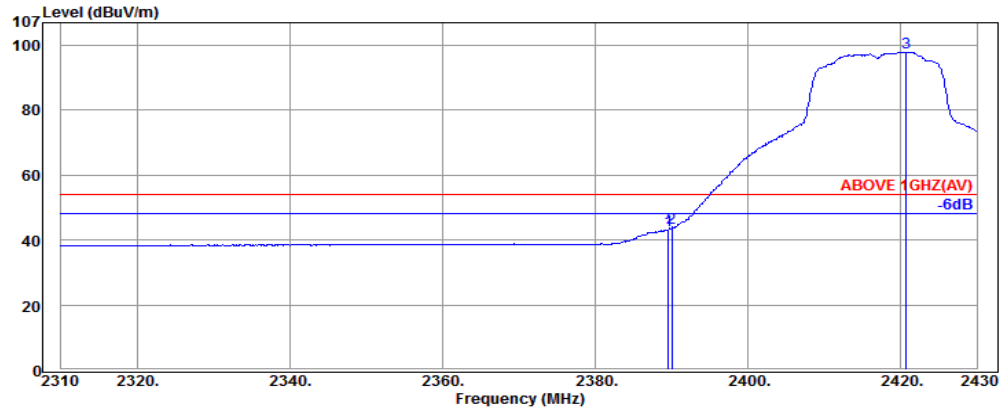
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.32	32.16	5.72	8.56	46.44	54.00	7.56	Average
2390.04	32.16	5.72	9.41	47.29	54.00	6.71	Average
2415.48	32.18	5.74	57.82	95.74	---	---	Average

Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

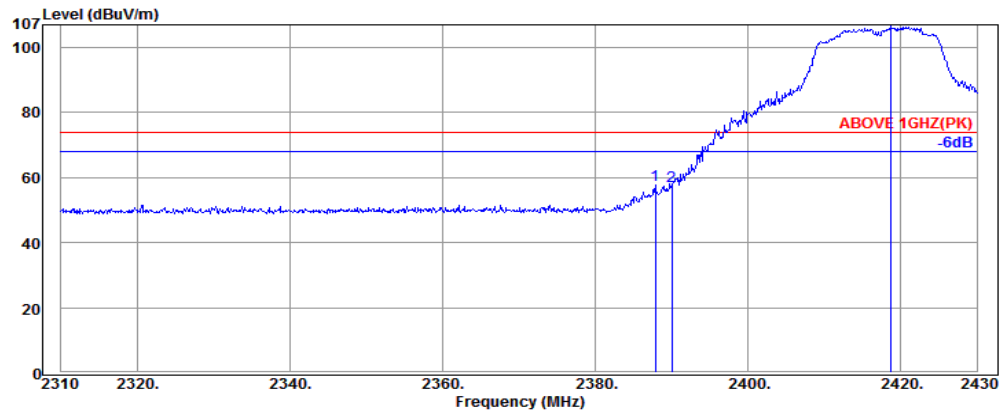
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.32	32.16	5.72	19.73	57.61	74.00	16.39	Peak
2390.04	32.16	5.72	17.93	55.81	74.00	18.19	Peak
2420.16	32.20	5.76	68.74	106.70	---	---	Peak



Antenna at Horizontal Polarization

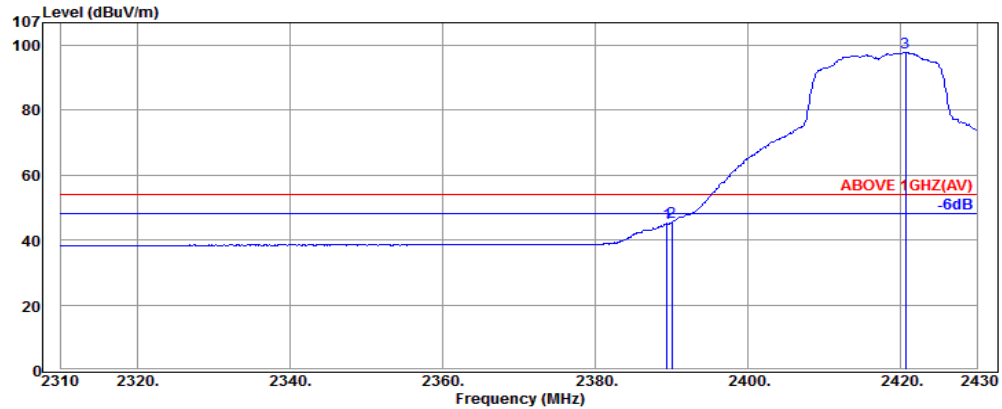
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.56	32.16	5.72	5.28	43.16	54.00	10.84	Average
2390.04	32.16	5.72	5.85	43.73	54.00	10.27	Average
2420.76	32.20	5.76	60.02	97.98	---	---	Average

Mode	802.11g	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

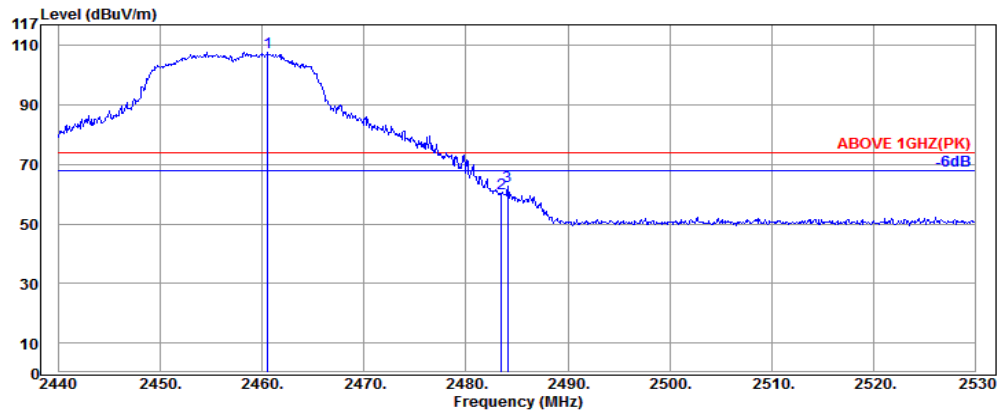
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.88	32.16	5.72	19.83	57.71	74.00	16.29	Peak
2390.04	32.16	5.72	19.32	57.20	74.00	16.80	Peak
2418.72	32.18	5.74	68.57	106.49	---	---	Peak



Antenna at Vertical Polarization

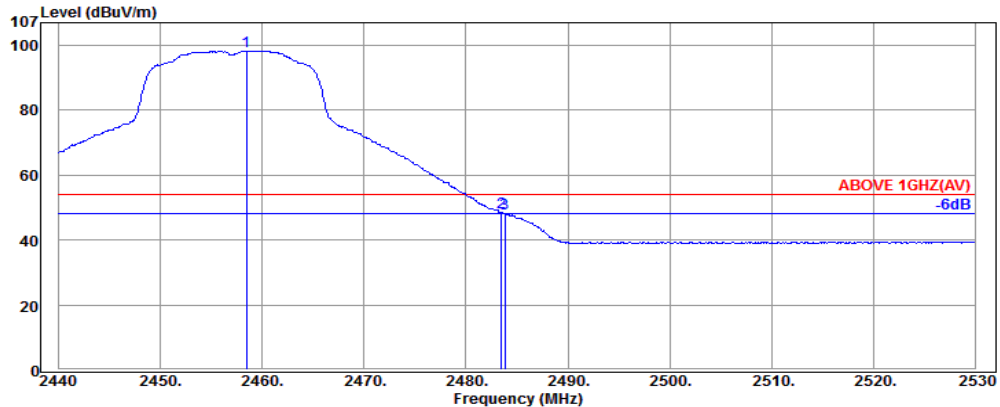
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.44	32.16	5.72	7.19	45.07	54.00	8.93	Average
2390.04	32.16	5.72	7.56	45.44	54.00	8.56	Average
2420.64	32.20	5.76	59.79	97.75	---	---	Average

Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

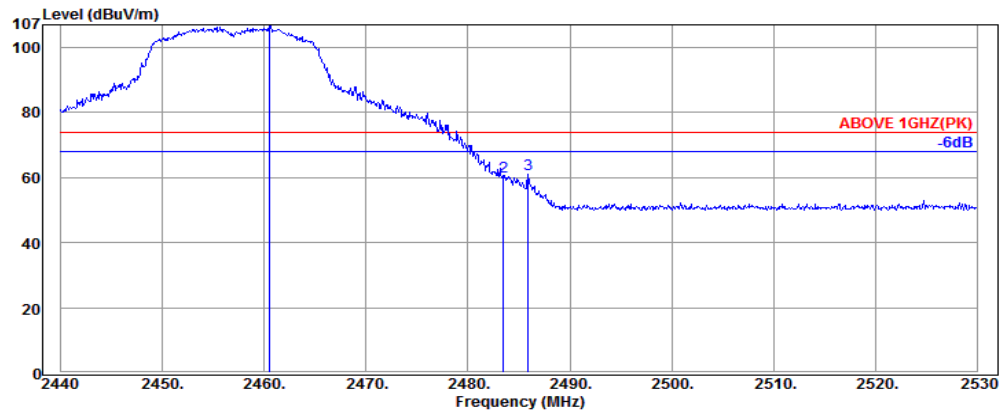
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.52	32.25	5.80	69.58	107.63	---	---	Peak
2483.47	32.28	5.82	22.40	60.50	74.00	13.50	Peak
2484.10	32.28	5.82	24.59	62.69	74.00	11.31	Peak



Antenna at Horizontal Polarization

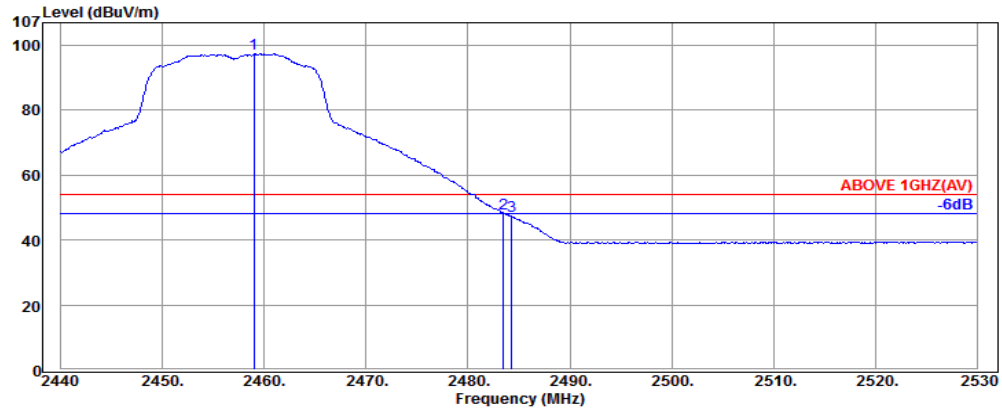
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.45	32.25	5.80	60.26	98.31	---	---	Average
2483.47	32.28	5.82	10.41	48.51	54.00	5.49	Average
2483.83	32.28	5.82	10.04	48.14	54.00	5.86	Average

Mode	802.11g	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

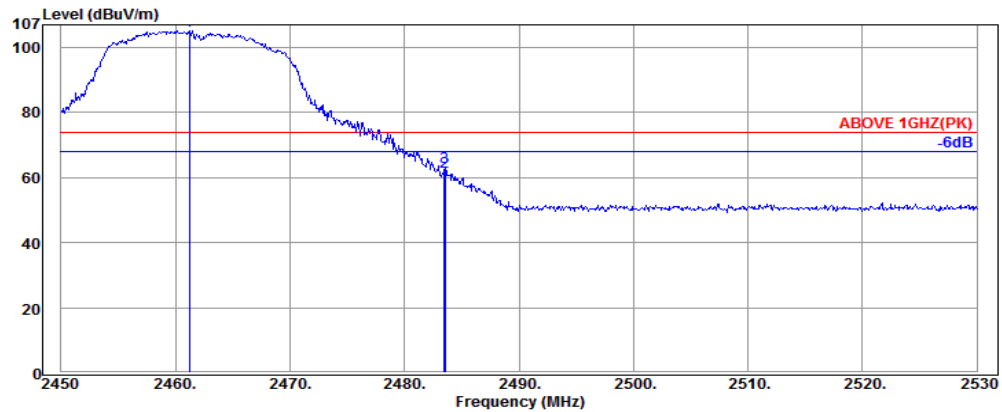
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.43	32.25	5.80	68.51	106.56	---	---	Peak
2483.47	32.28	5.82	22.16	60.26	74.00	13.74	Peak
2485.90	32.28	5.82	22.88	60.98	74.00	13.02	Peak



Antenna at Vertical Polarization

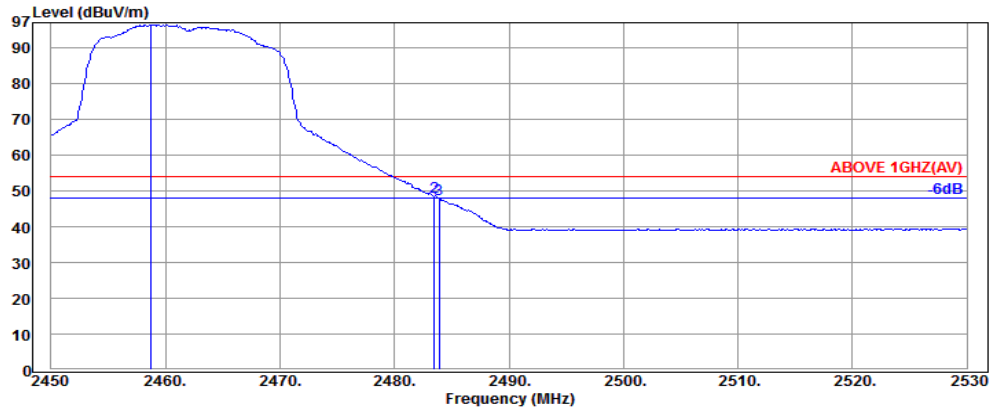
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.99	32.25	5.80	59.34	97.39	---	---	Average
2483.47	32.28	5.82	10.03	48.13	54.00	5.87	Average
2484.28	32.28	5.82	9.19	47.29	54.00	6.71	Average

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

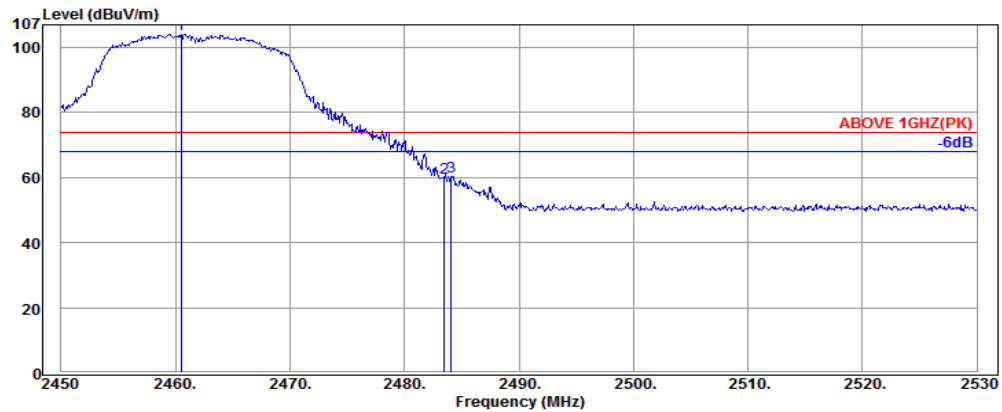
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2461.24	32.25	5.80	67.16	105.21	---	---	Peak
2483.47	32.28	5.82	23.78	61.88	74.00	12.12	Peak
2483.56	32.28	5.82	25.09	63.19	74.00	10.81	Peak



Antenna at Horizontal Polarization

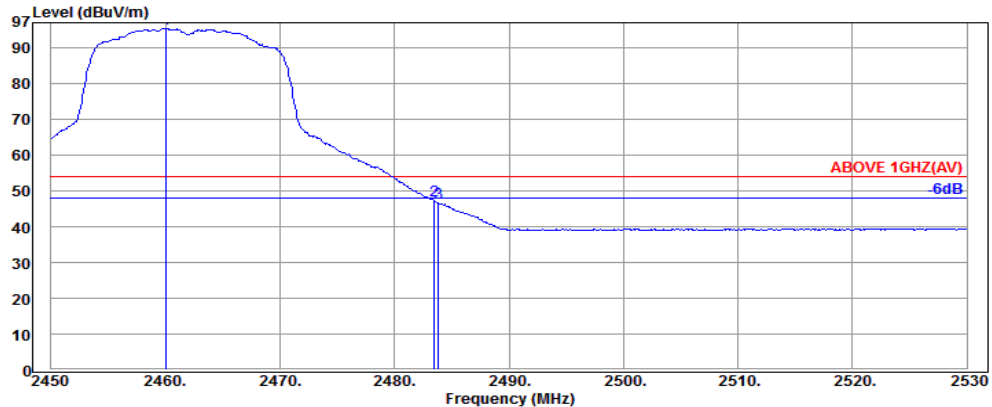
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.72	32.25	5.80	58.39	96.44	---	---	Average
2483.47	32.28	5.82	10.28	48.38	54.00	5.62	Average
2483.92	32.28	5.82	9.53	47.63	54.00	6.37	Average

Mode	802.11g	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

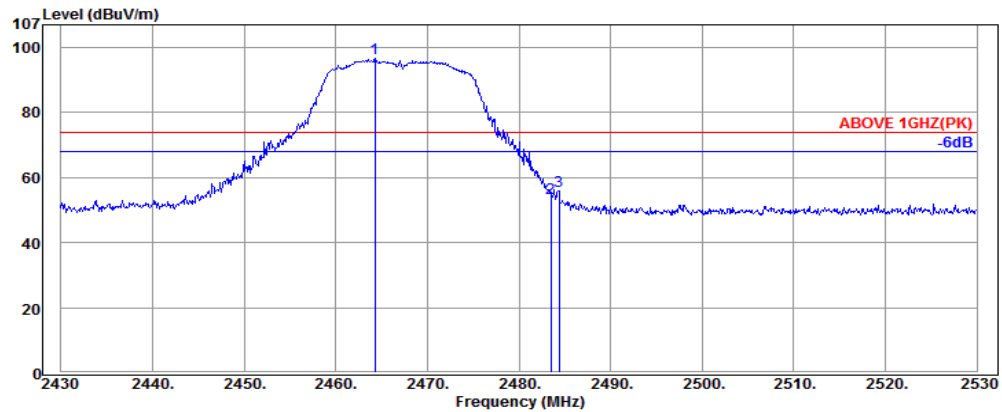
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.52	32.25	5.80	65.87	103.92	---	---	Peak
2483.47	32.28	5.82	21.78	59.88	74.00	14.12	Peak
2484.10	32.28	5.82	22.19	60.29	74.00	13.71	Peak



Antenna at Vertical Polarization

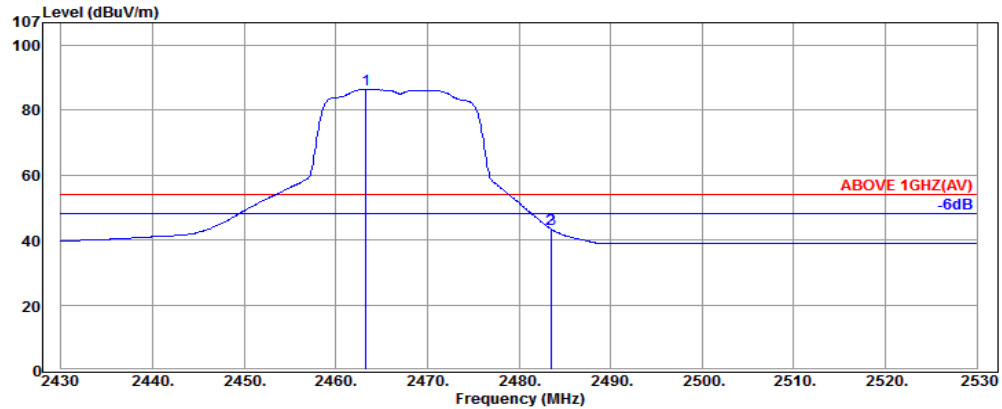
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.07	32.25	5.80	57.31	95.36	---	---	Average
2483.47	32.28	5.82	9.37	47.47	54.00	6.53	Average
2483.83	32.28	5.82	8.58	46.68	54.00	7.32	Average

Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

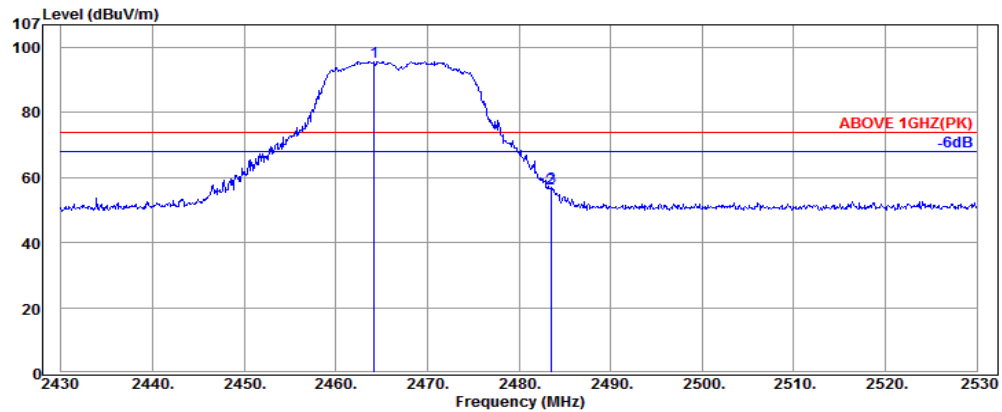
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.30	32.25	6.16	58.13	96.54	---	---	Peak
2483.50	32.28	6.19	15.31	53.78	74.00	20.22	Peak
2484.40	32.28	6.19	17.59	56.06	74.00	17.94	Peak



Antenna at Horizontal Polarization

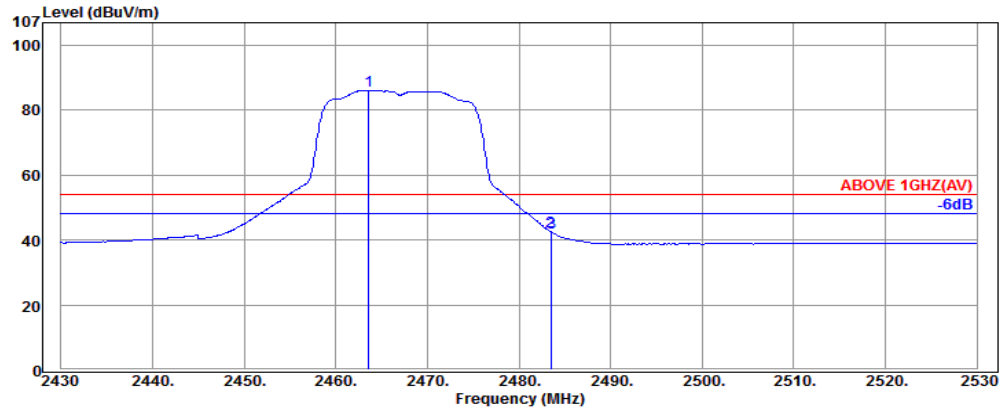
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.30	32.25	6.16	48.08	86.49	---	---	Average
2483.50	32.28	6.19	5.01	43.48	54.00	10.52	Average
2483.60	32.28	6.19	4.81	43.28	54.00	10.72	Average

Mode	802.11g	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

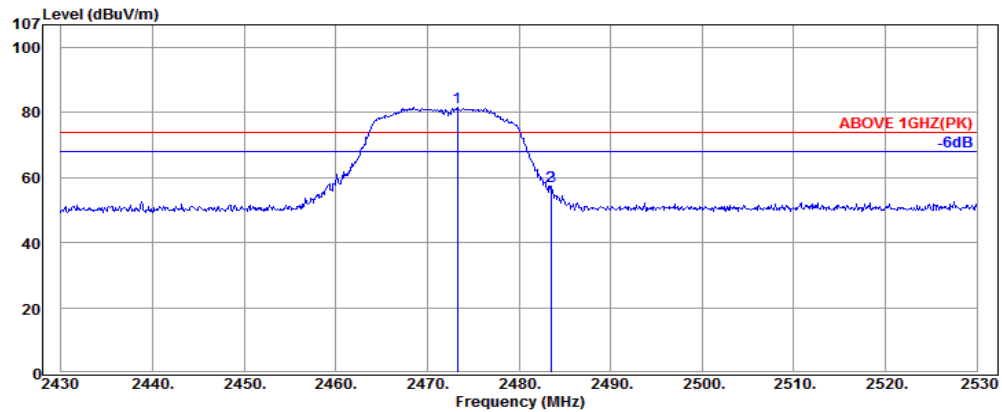
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.20	32.25	6.16	57.35	95.76	---	---	Peak
2483.50	32.28	6.19	17.99	56.46	74.00	17.54	Peak
2483.60	32.28	6.19	18.54	57.01	74.00	16.99	Peak



Antenna at Vertical Polarization

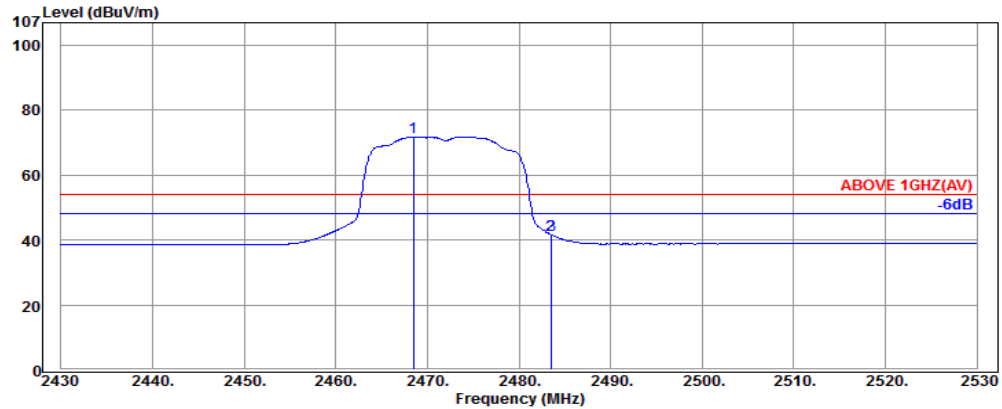
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.60	32.25	6.16	47.74	86.15	---	---	Average
2483.50	32.28	6.19	4.10	42.57	54.00	11.43	Average
2483.60	32.28	6.19	3.88	42.35	54.00	11.65	Average

Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

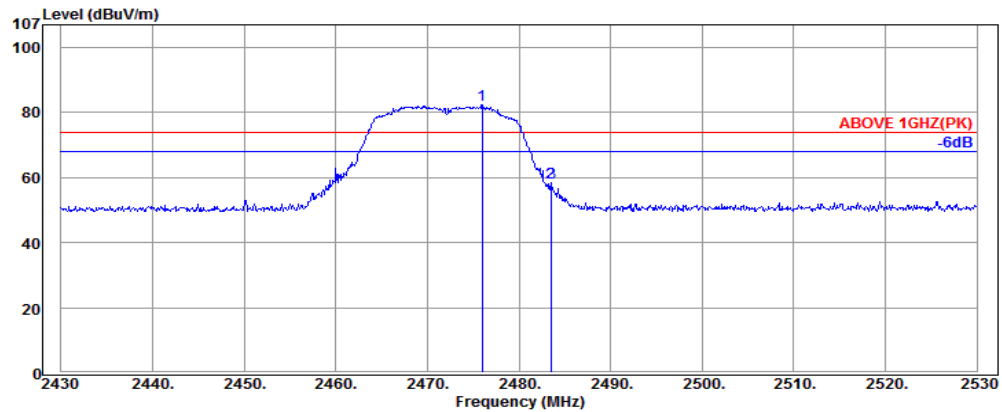
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2473.30	32.28	6.17	43.08	81.53	---	---	Peak
2483.50	32.28	6.19	18.78	57.25	74.00	16.75	Peak
2483.60	32.28	6.19	18.90	57.37	74.00	16.63	Peak



Antenna at Horizontal Polarization

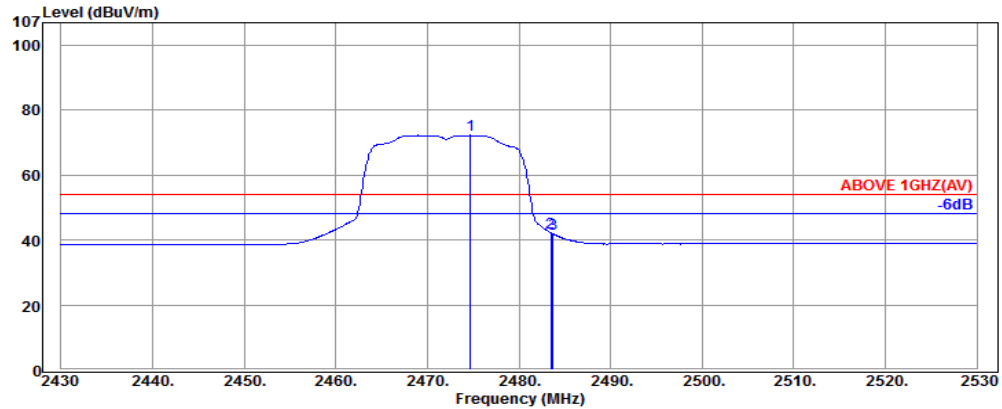
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2468.50	32.25	6.17	33.22	71.64	---	---	Average
2483.50	32.28	6.19	3.17	41.64	54.00	12.36	Average
2483.60	32.28	6.19	3.05	41.52	54.00	12.48	Average

Mode	802.11g	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

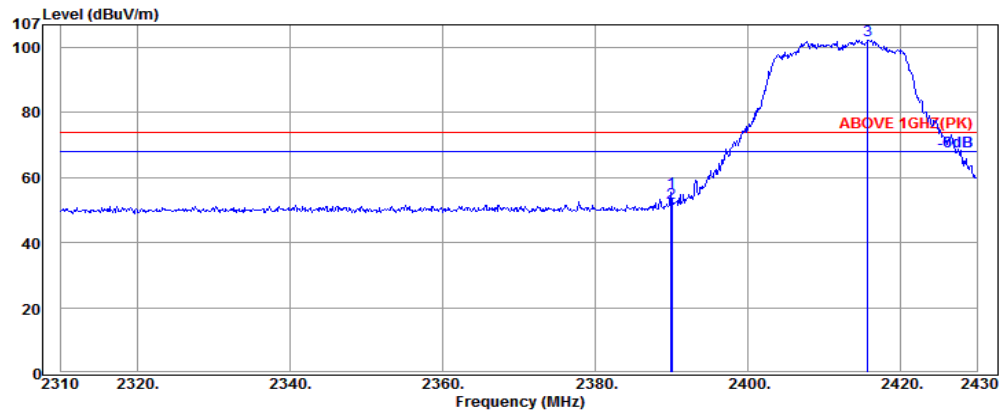
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2476.00	32.28	6.18	44.08	82.54	---	---	Peak
2483.50	32.28	6.19	19.99	58.46	74.00	15.54	Peak
2483.60	32.28	6.19	19.91	58.38	74.00	15.62	Peak



Antenna at Vertical Polarization

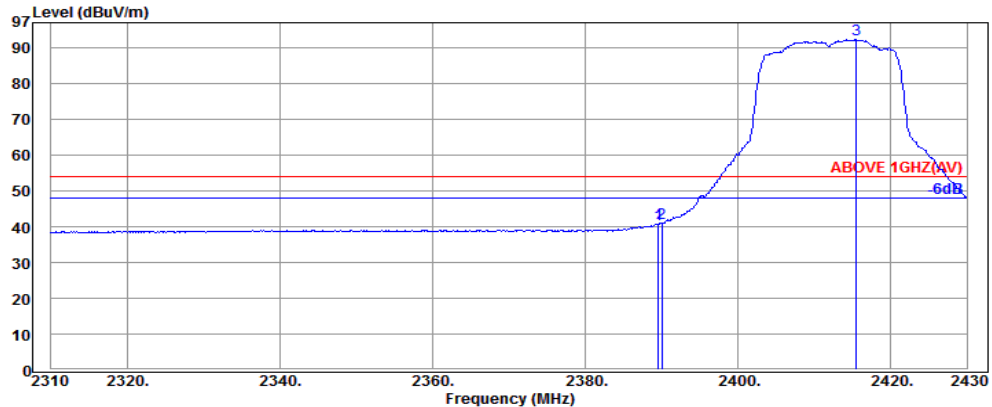
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2474.70	32.28	6.17	33.82	72.27	---	---	Average
2483.50	32.28	6.19	3.78	42.25	54.00	11.75	Average
2483.70	32.28	6.19	3.50	41.97	54.00	12.03	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Horizontal Polarization

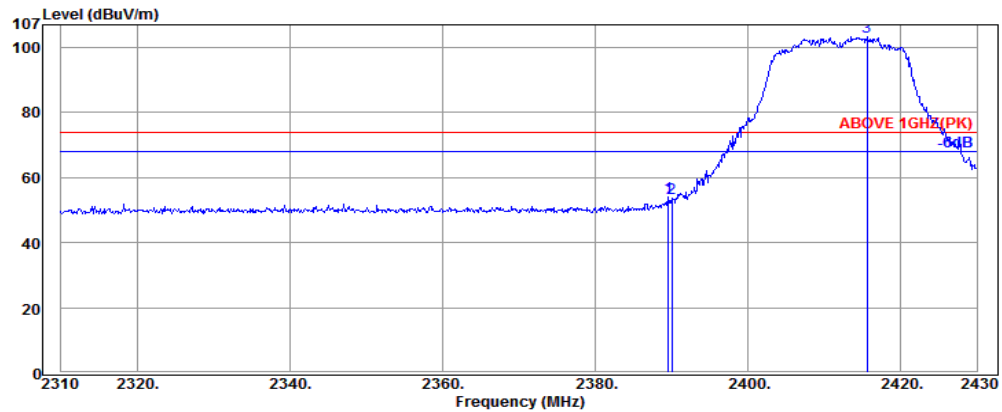
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.92	32.16	5.72	17.46	55.34	74.00	18.66	Peak
2390.04	32.16	5.72	14.33	52.21	74.00	21.79	Peak
2415.72	32.18	5.74	64.36	102.28	---	---	Peak



Antenna at Horizontal Polarization

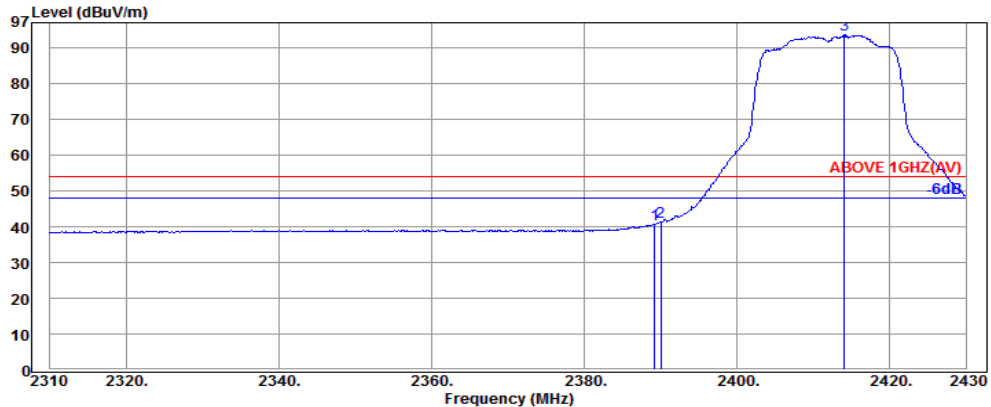
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.56	32.16	5.72	2.94	40.82	54.00	13.18	Average
2390.04	32.16	5.72	3.26	41.14	54.00	12.86	Average
2415.48	32.18	5.74	54.44	92.36	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2412MHz
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Antenna at Vertical Polarization

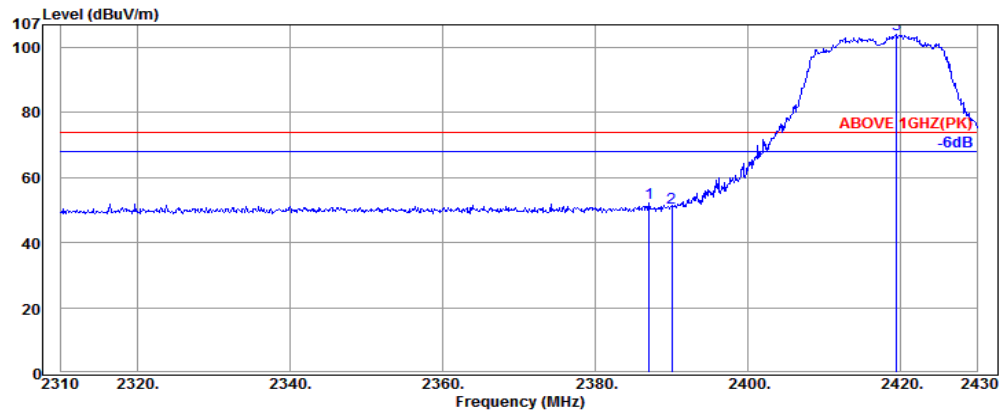
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.56	32.16	5.72	16.00	53.88	74.00	20.12	Peak
2390.04	32.16	5.72	15.68	53.56	74.00	20.44	Peak
2415.60	32.18	5.74	65.42	103.34	---	---	Peak



Antenna at Vertical Polarization

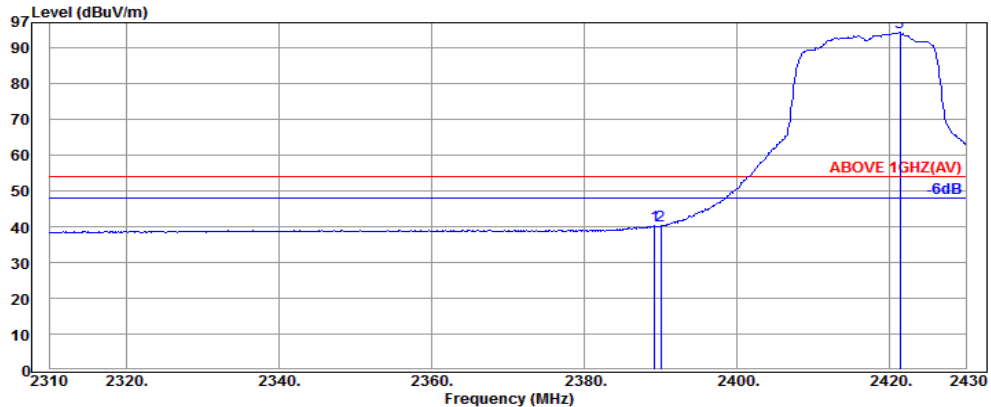
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	5.72	2.88	40.76	54.00	13.24	Average
2390.04	32.16	5.72	3.42	41.30	54.00	12.70	Average
2414.04	32.18	5.74	55.68	93.60	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2417MHz
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Antenna at Horizontal Polarization

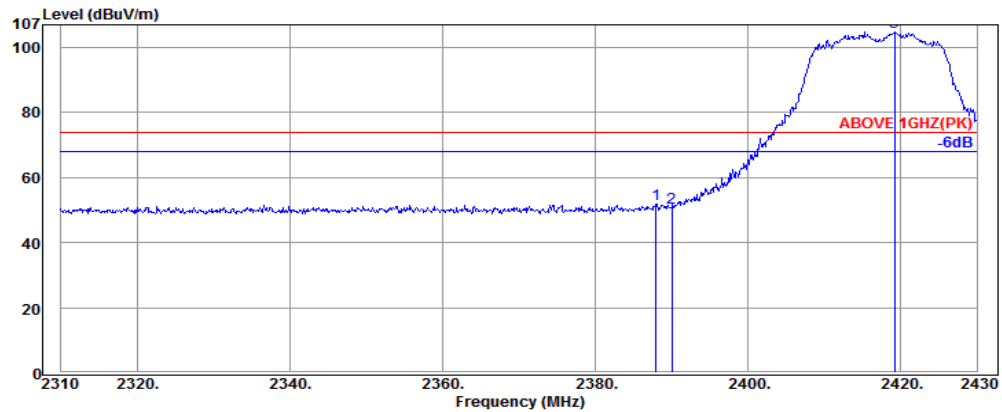
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.04	32.16	5.72	14.15	52.03	74.00	21.97	Peak
2390.04	32.16	5.72	12.88	50.76	74.00	23.24	Peak
2419.44	32.18	5.74	66.05	103.97	---	---	Peak



Antenna at Horizontal Polarization

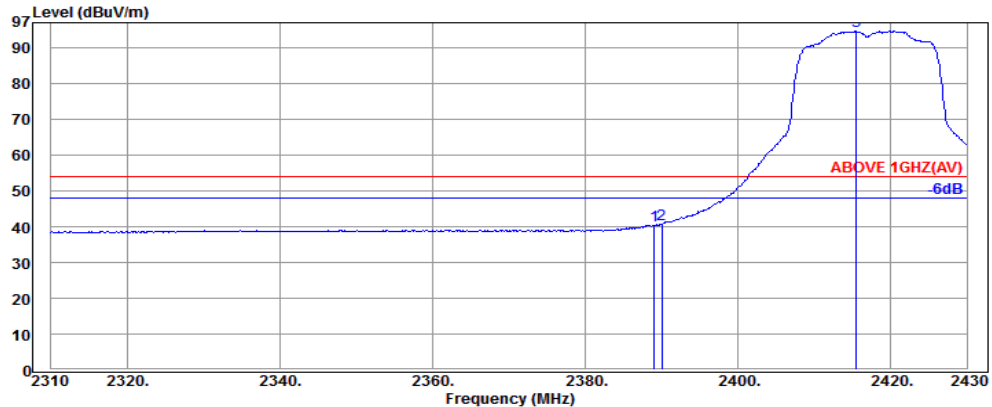
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.20	32.16	5.72	2.34	40.22	54.00	13.78	Average
2390.04	32.16	5.72	2.51	40.39	54.00	13.61	Average
2421.36	32.20	5.76	56.24	94.20	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2417MHz
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Antenna at Vertical Polarization

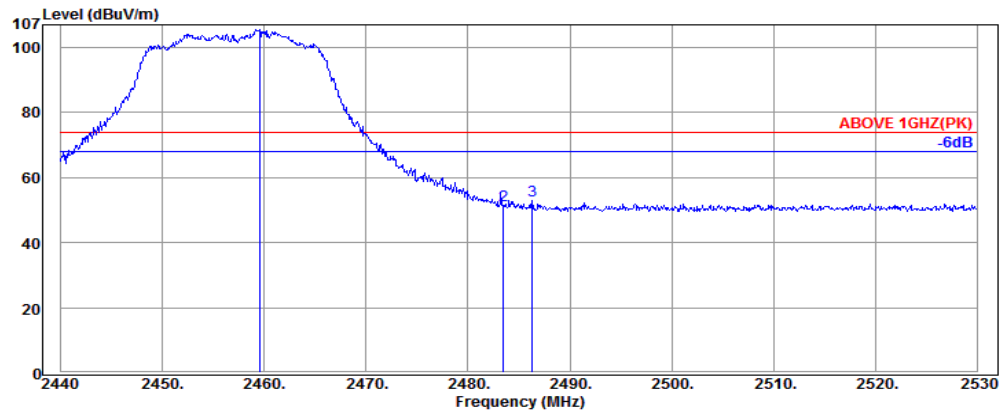
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.00	32.16	5.72	14.11	51.99	74.00	22.01	Peak
2390.04	32.16	5.72	12.87	50.75	74.00	23.25	Peak
2419.20	32.18	5.74	66.72	104.64	---	---	Peak



Antenna at Vertical Polarization

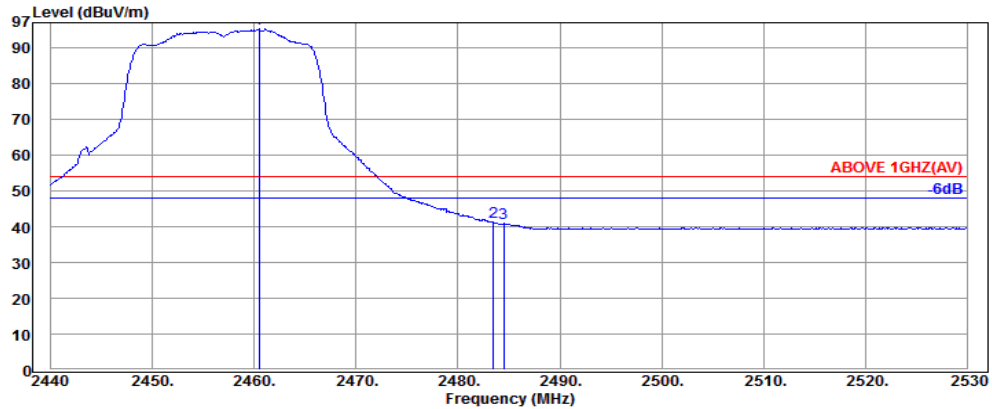
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.08	32.16	5.72	2.59	40.47	54.00	13.53	Average
2390.04	32.16	5.72	2.79	40.67	54.00	13.33	Average
2415.48	32.18	5.74	56.85	94.77	---	---	Average

Mode	802.11n-HT20	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

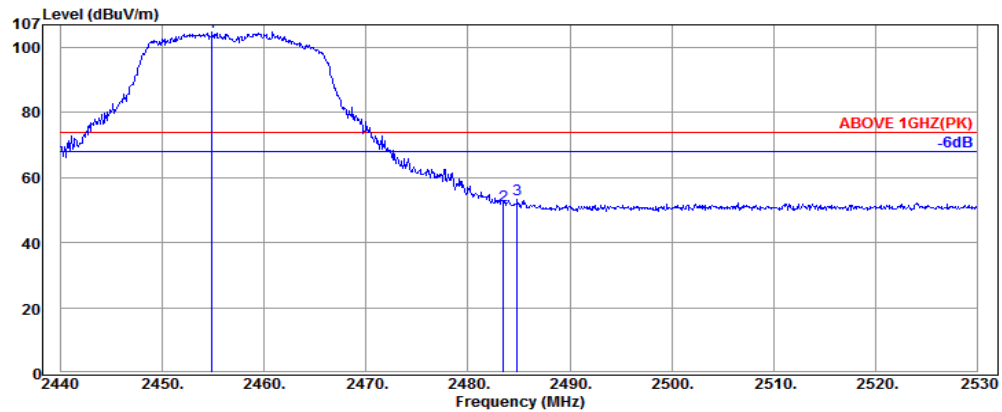
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2459.53	32.25	5.80	67.33	105.38	---	---	Peak
2483.47	32.28	5.82	13.31	51.41	74.00	22.59	Peak
2486.35	32.28	5.82	14.86	52.96	74.00	21.04	Peak



Antenna at Horizontal Polarization

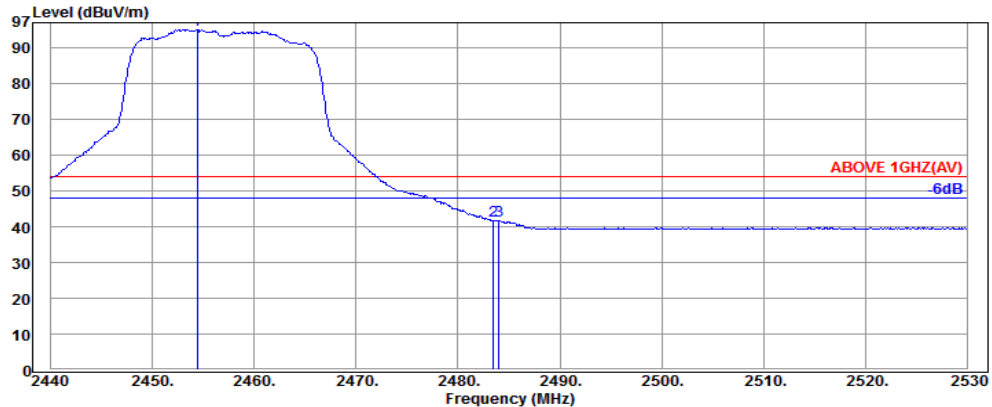
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2460.43	32.25	5.80	57.16	95.21	---	---	Average
2483.47	32.28	5.82	3.12	41.22	54.00	12.78	Average
2484.46	32.28	5.82	2.77	40.87	54.00	13.13	Average

Mode	802.11n-HT20	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

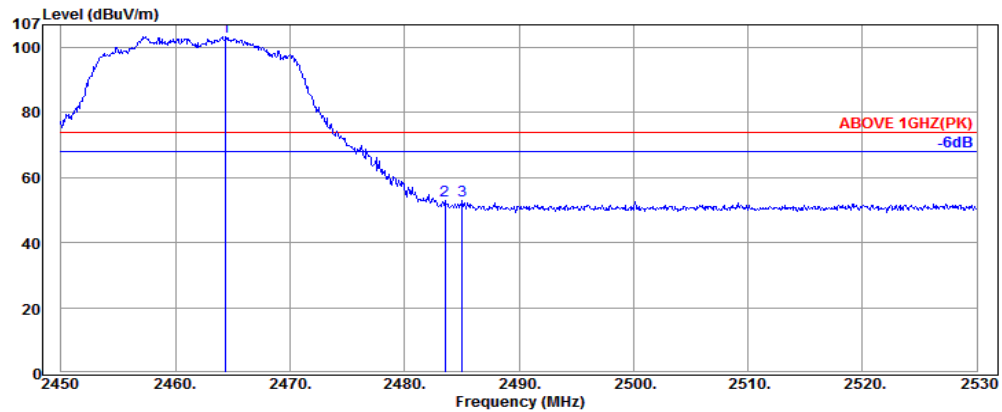
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2454.85	32.25	5.80	66.77	104.82	---	---	Peak
2483.47	32.28	5.82	13.37	51.47	74.00	22.53	Peak
2484.82	32.28	5.82	15.04	53.14	74.00	20.86	Peak



Antenna at Vertical Polarization

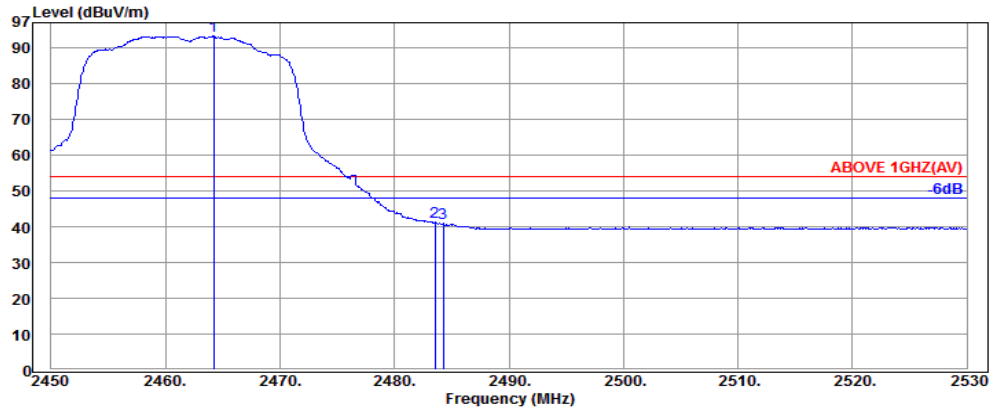
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2454.40	32.25	5.80	57.11	95.16	---	---	Average
2483.47	32.28	5.82	3.47	41.57	54.00	12.43	Average
2484.01	32.28	5.82	3.66	41.76	54.00	12.24	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Horizontal Polarization

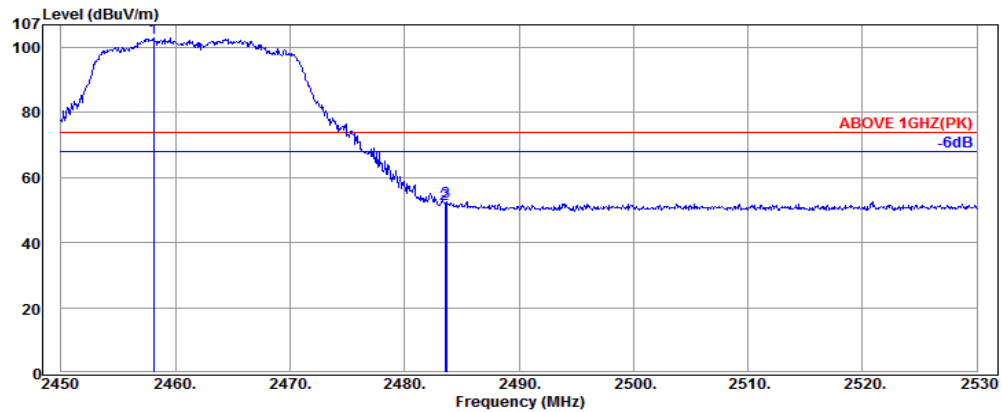
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.40	32.25	5.80	65.31	103.36	---	---	Peak
2483.52	32.28	5.82	14.85	52.95	74.00	21.05	Peak
2485.04	32.28	5.82	14.84	52.94	74.00	21.06	Peak



Antenna at Horizontal Polarization

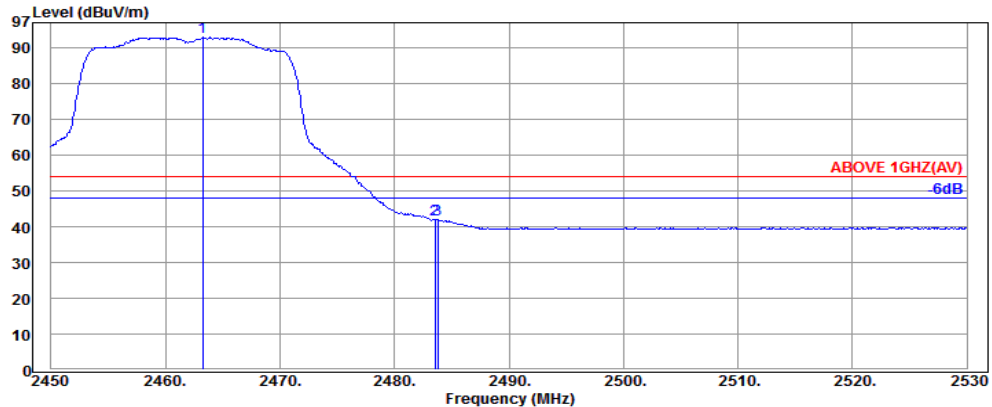
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2464.24	32.25	5.80	55.18	93.23	---	---	Average
2483.52	32.28	5.82	3.19	41.29	54.00	12.71	Average
2484.24	32.28	5.82	2.78	40.88	54.00	13.12	Average

Mode	802.11n-HT20	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

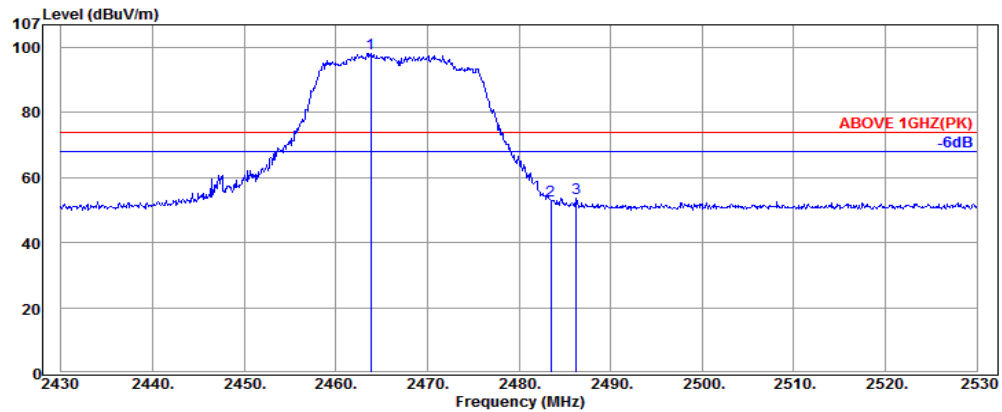
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.08	32.25	5.80	65.09	103.14	---	---	Peak
2483.52	32.28	5.82	13.88	51.98	74.00	22.02	Peak
2483.68	32.28	5.82	14.54	52.64	74.00	21.36	Peak



Antenna at Vertical Polarization

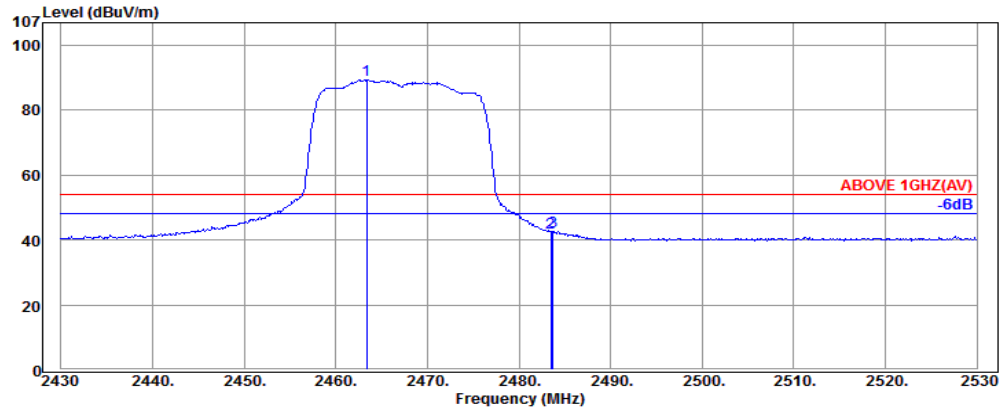
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.28	32.25	5.80	54.80	92.85	---	---	Average
2483.52	32.28	5.82	3.79	41.89	54.00	12.11	Average
2483.76	32.28	5.82	3.84	41.94	54.00	12.06	Average

Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Horizontal Polarization

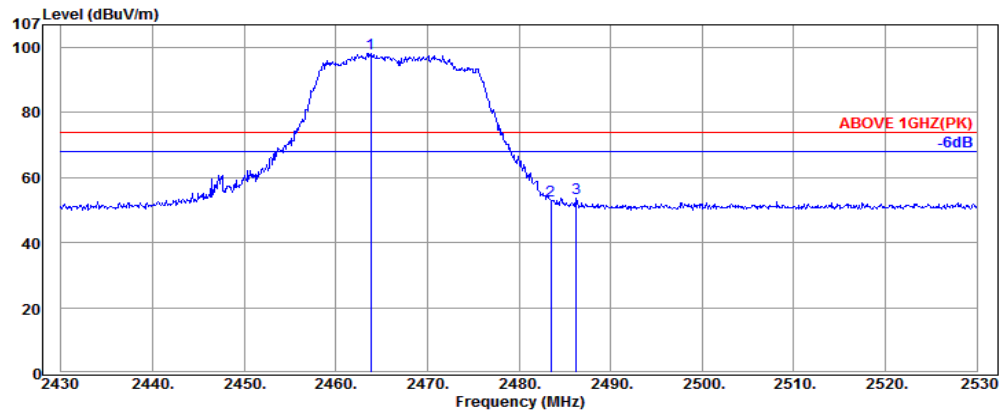
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.80	32.25	6.16	59.82	98.23	---	---	Peak
2483.50	32.28	6.19	14.55	53.02	74.00	20.98	Peak
2486.30	32.28	6.19	15.08	53.55	74.00	20.45	Peak



Antenna at Horizontal Polarization

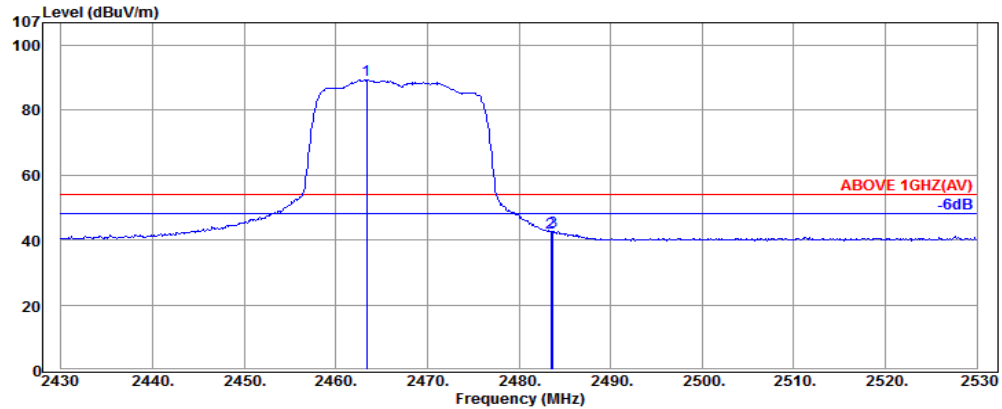
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.40	32.25	6.16	50.99	89.40	---	---	Average
2483.50	32.28	6.19	3.95	42.42	54.00	11.58	Average
2483.70	32.28	6.19	4.34	42.81	54.00	11.19	Average

Mode	802.11n-HT20	Frequency	TX 2467MHz
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Antenna at Vertical Polarization

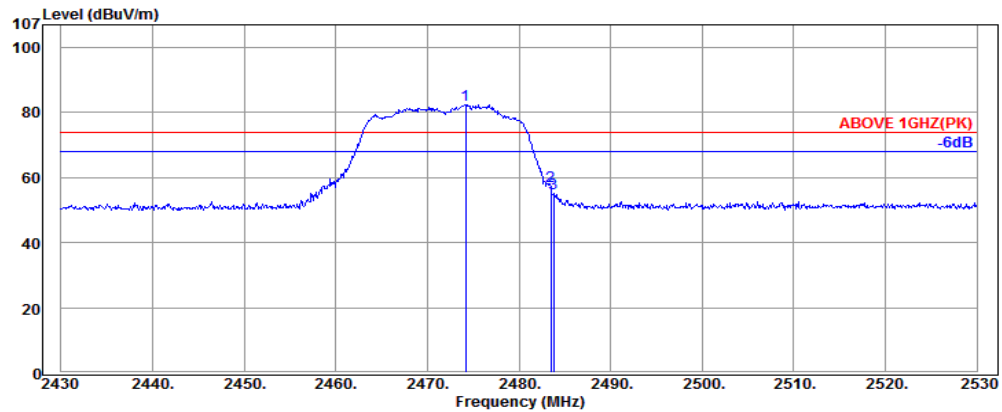
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.80	32.25	6.16	59.82	98.23	---	---	Peak
2483.50	32.28	6.19	14.55	53.02	74.00	20.98	Peak
2486.30	32.28	6.19	15.08	53.55	74.00	20.45	Peak



Antenna at Vertical Polarization

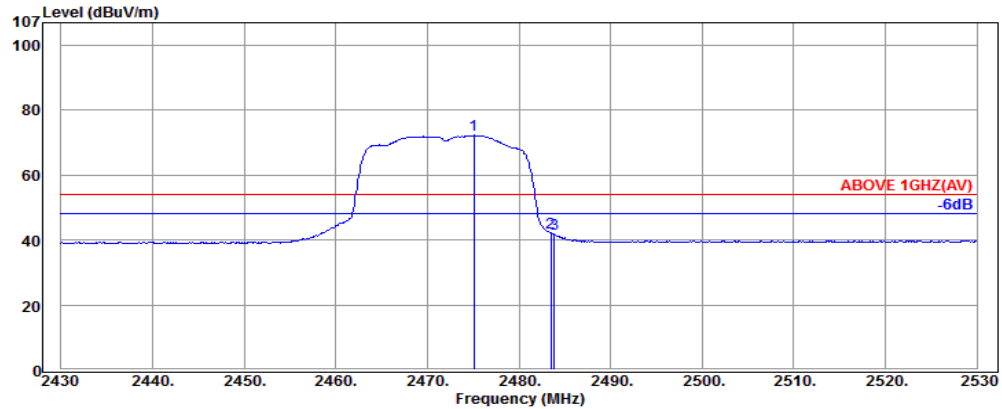
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2463.40	32.25	6.16	50.99	89.40	---	---	Average
2483.50	32.28	6.19	3.95	42.42	54.00	11.58	Average
2483.70	32.28	6.19	4.34	42.81	54.00	11.19	Average

Mode	802.11n-HT20	Frequency	TX 2472MHz
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Antenna at Horizontal Polarization

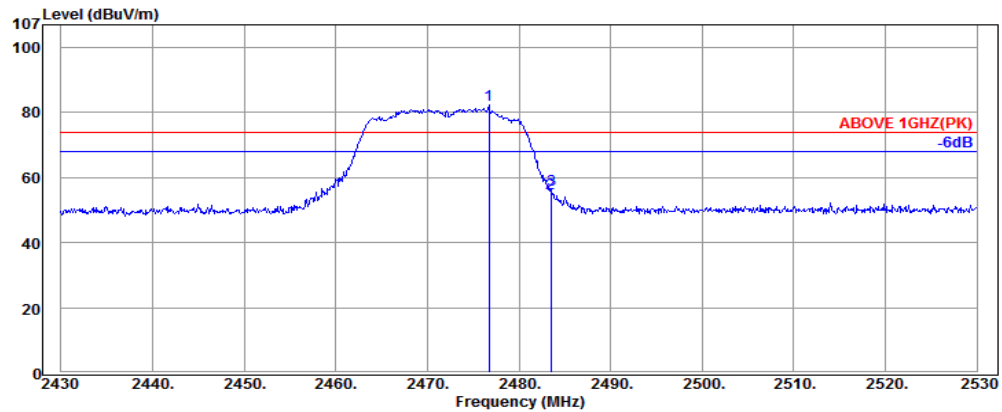
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2474.20	32.28	6.17	44.06	82.51	---	---	Peak
2483.50	32.28	6.19	18.91	57.38	74.00	16.62	Peak
2483.80	32.28	6.19	16.85	55.32	74.00	18.68	Peak



Antenna at Horizontal Polarization

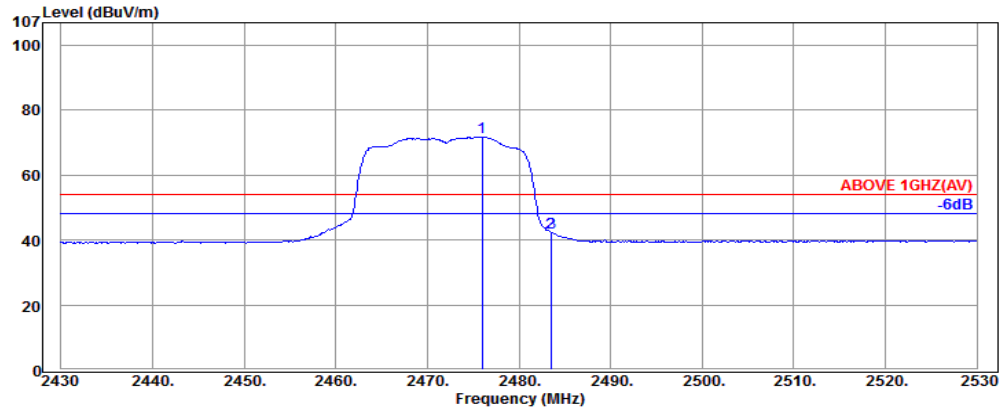
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2475.10	32.28	6.18	33.87	72.33	---	---	Average
2483.50	32.28	6.19	3.66	42.13	54.00	11.87	Average
2483.90	32.28	6.19	3.44	41.91	54.00	12.09	Average

Mode	802.11n-HT20	Frequency	TX 2472MHz
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Antenna at Vertical Polarization

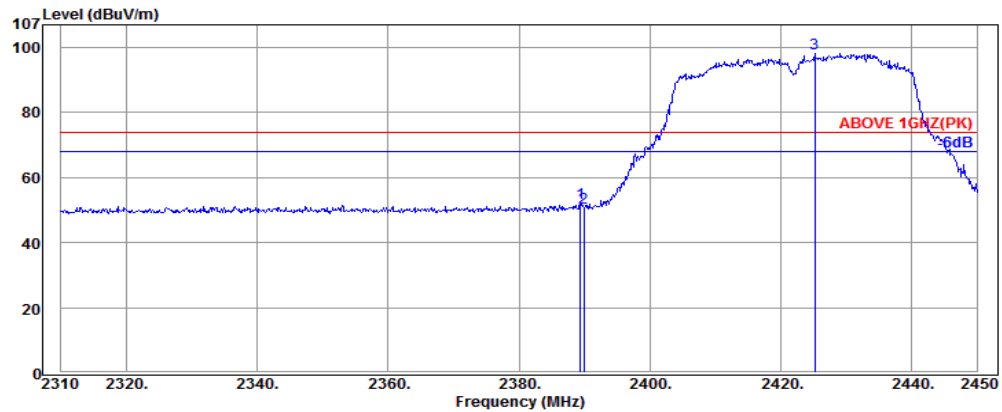
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2476.70	32.28	6.18	44.02	82.48	---	---	Peak
2483.50	32.28	6.19	16.53	55.00	74.00	19.00	Peak
2483.60	32.28	6.19	17.77	56.24	74.00	17.76	Peak



Antenna at Vertical Polarization

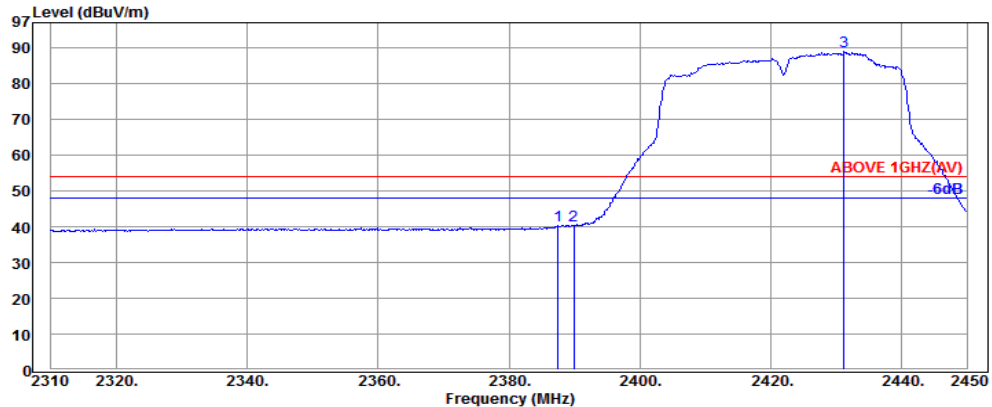
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2476.00	32.28	6.18	33.37	71.83	---	---	Average
2483.50	32.28	6.19	3.94	42.41	54.00	11.59	Average
2483.60	32.28	6.19	3.85	42.32	54.00	11.68	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Horizontal Polarization

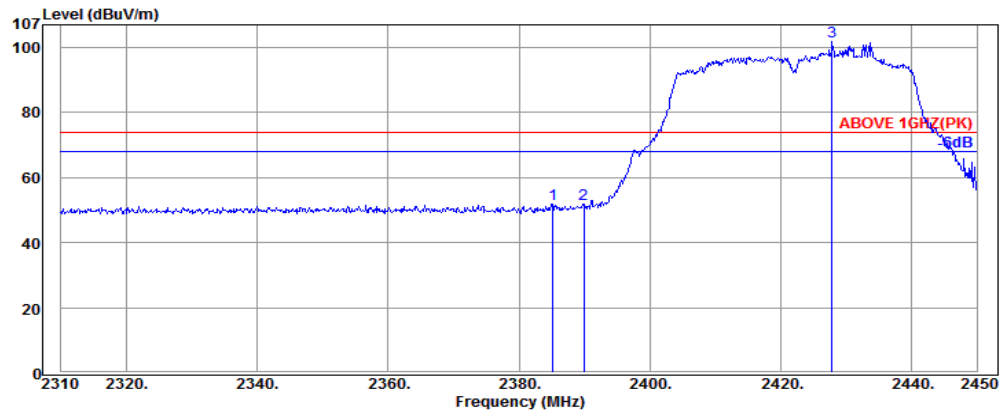
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.38	32.16	5.72	14.16	52.04	74.00	21.96	Peak
2389.94	32.16	5.72	12.72	50.60	74.00	23.40	Peak
2425.22	32.20	5.76	60.28	98.24	---	---	Peak



Antenna at Horizontal Polarization

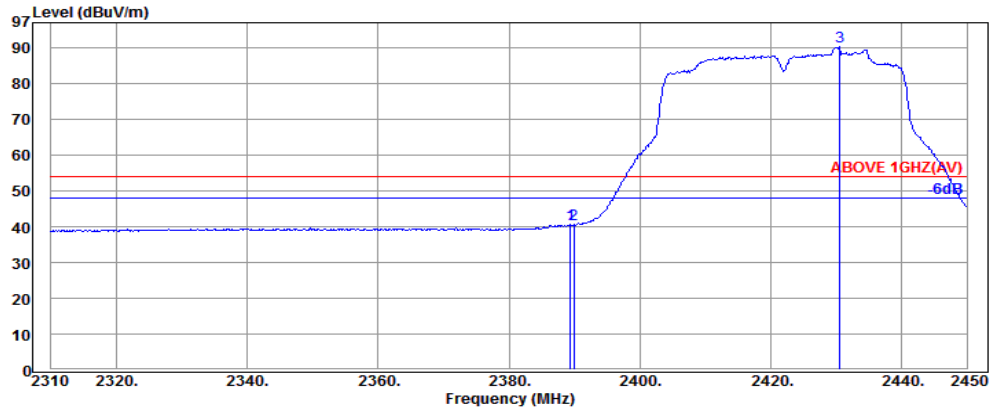
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2387.56	32.16	5.72	2.42	40.30	54.00	13.70	Average
2389.94	32.16	5.72	2.35	40.23	54.00	13.77	Average
2431.24	32.20	5.76	50.87	88.83	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2422MHz
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Antenna at Vertical Polarization

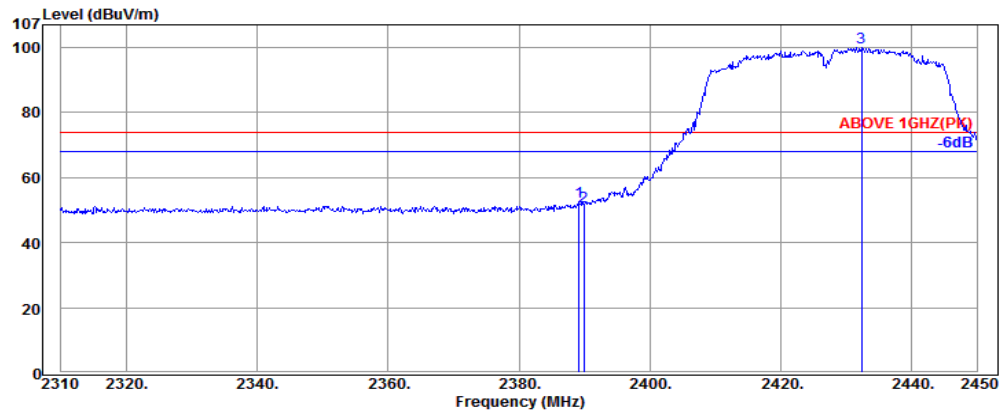
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2385.18	32.13	5.71	13.95	51.79	74.00	22.21	Peak
2389.94	32.16	5.72	13.87	51.75	74.00	22.25	Peak
2427.88	32.20	5.76	63.75	101.71	---	---	Peak



Antenna at Vertical Polarization

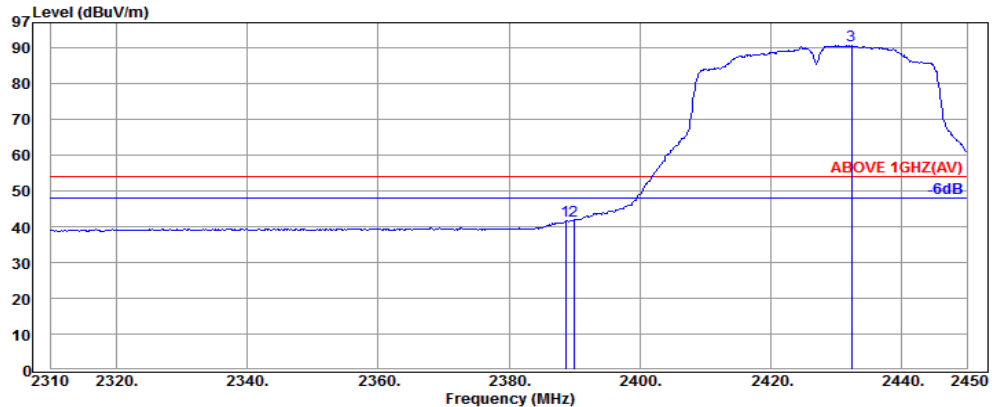
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.38	32.16	5.72	2.68	40.56	54.00	13.44	Average
2389.94	32.16	5.72	2.84	40.72	54.00	13.28	Average
2430.54	32.20	5.76	52.29	90.25	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2427MHz
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Antenna at Horizontal Polarization

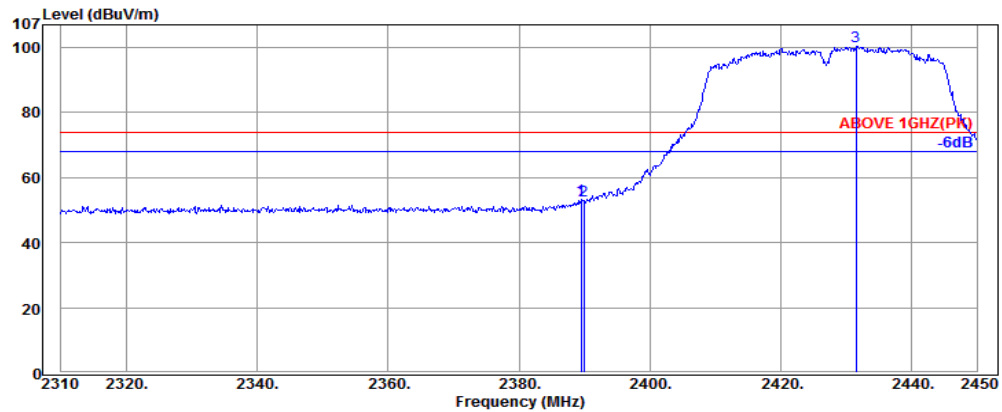
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.24	32.16	5.72	14.67	52.55	74.00	21.45	Peak
2389.94	32.16	5.72	13.33	51.21	74.00	22.79	Peak
2432.36	32.20	5.76	62.10	100.06	---	---	Peak



Antenna at Horizontal Polarization

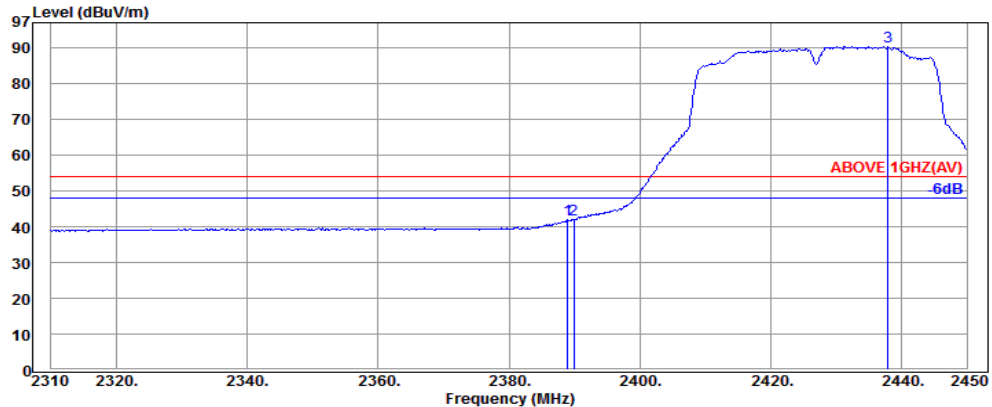
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.68	32.16	5.72	3.94	41.82	54.00	12.18	Average
2389.94	32.16	5.72	3.90	41.78	54.00	12.22	Average
2432.36	32.20	5.76	52.71	90.67	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2427MHz
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Antenna at Vertical Polarization

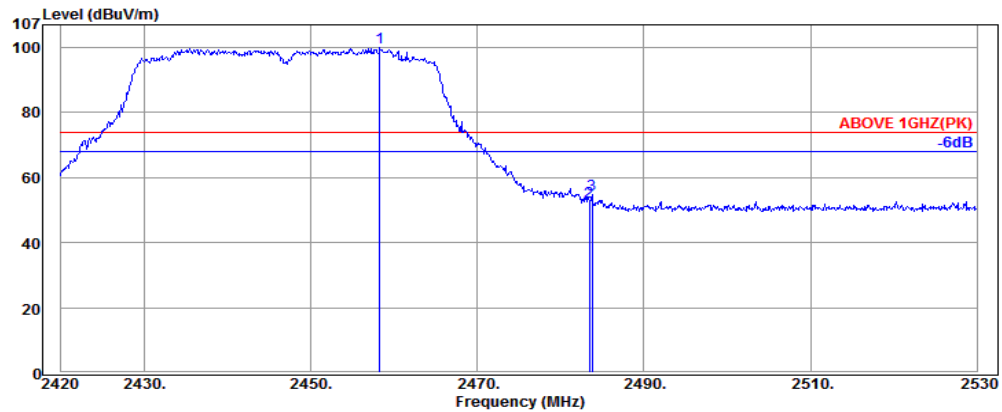
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2389.52	32.16	5.72	15.46	53.34	74.00	20.66	Peak
2389.94	32.16	5.72	15.10	52.98	74.00	21.02	Peak
2431.52	32.20	5.76	62.60	100.56	---	---	Peak



Antenna at Vertical Polarization

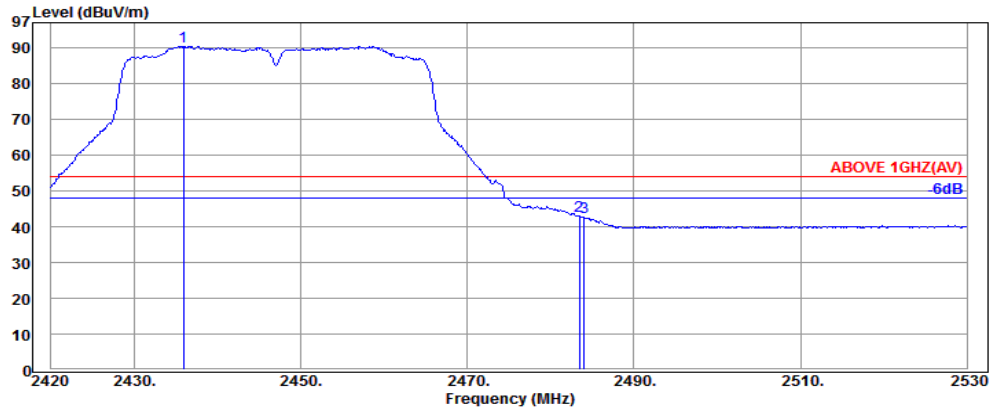
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2388.96	32.16	5.72	4.00	41.88	54.00	12.12	Average
2389.94	32.16	5.72	4.12	42.00	54.00	12.00	Average
2437.96	32.23	5.78	52.42	90.43	---	---	Average

Mode	802.11n-HT40	Frequency	TX 2447MHz
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Antenna at Horizontal Polarization

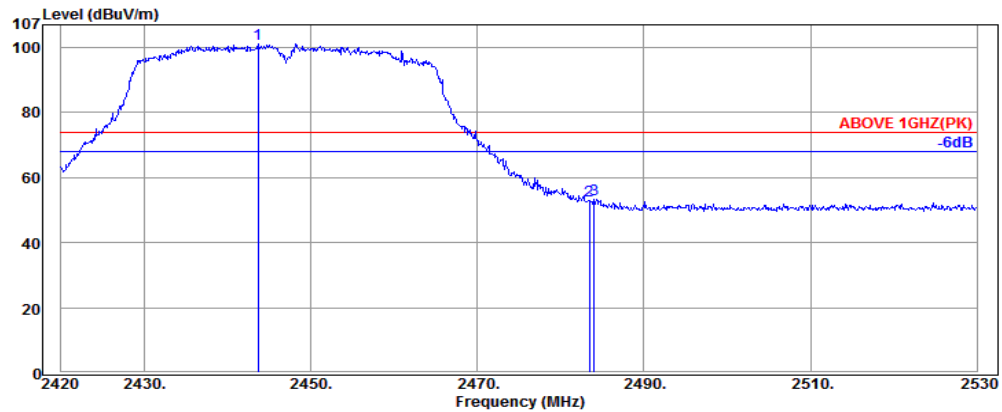
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.28	32.25	5.80	62.12	100.17	---	---	Peak
2483.47	32.28	5.82	14.53	52.63	74.00	21.37	Peak
2483.80	32.28	5.82	16.64	54.74	74.00	19.26	Peak



Antenna at Horizontal Polarization

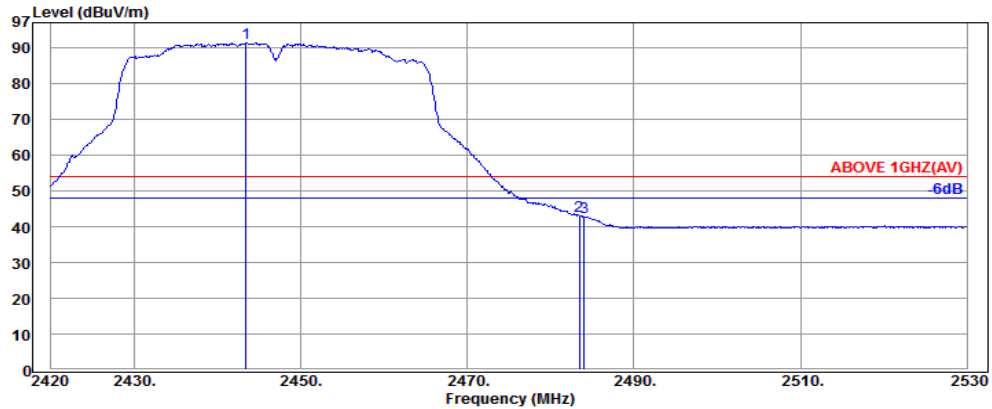
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2435.95	32.20	5.76	52.50	90.46	---	---	Average
2483.47	32.28	5.82	4.83	42.93	54.00	11.07	Average
2484.02	32.28	5.82	4.57	42.67	54.00	11.33	Average

Mode	802.11n-HT40	Frequency	TX 2447MHz
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Antenna at Vertical Polarization

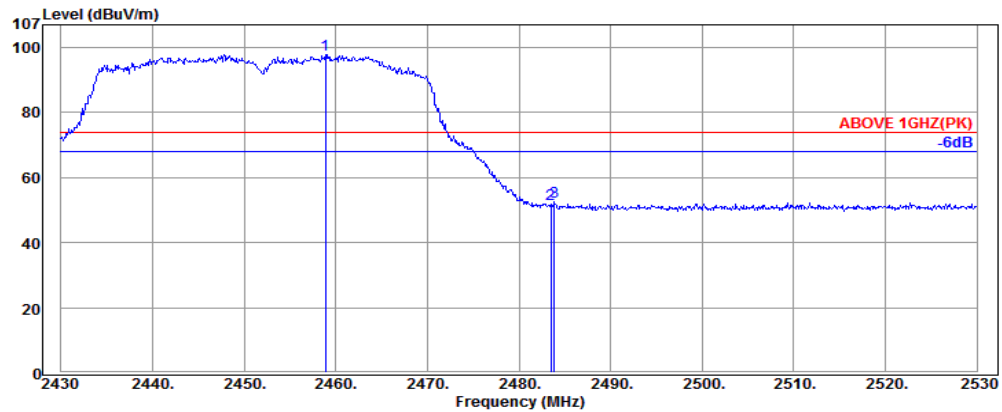
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2443.65	32.23	5.78	62.99	101.00	---	---	Peak
2483.47	32.28	5.82	14.96	53.06	74.00	20.94	Peak
2484.02	32.28	5.82	15.25	53.35	74.00	20.65	Peak



Antenna at Vertical Polarization

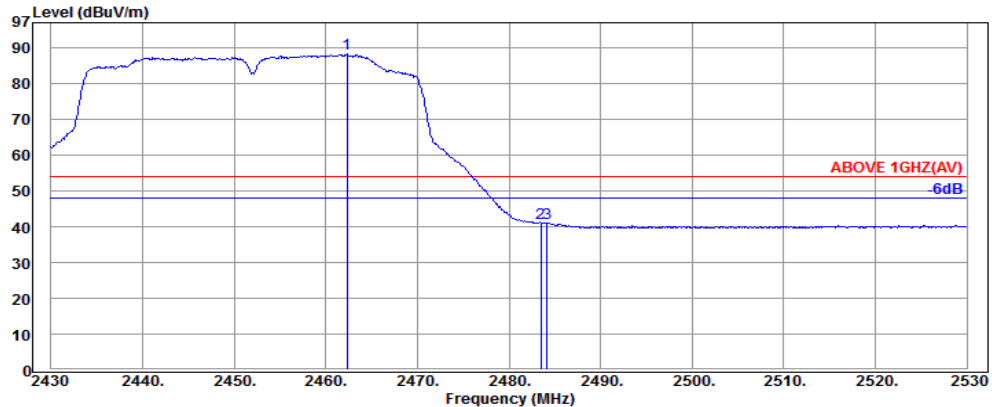
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2443.43	32.23	5.78	53.38	91.39	---	---	Average
2483.47	32.28	5.82	4.97	43.07	54.00	10.93	Average
2484.02	32.28	5.82	4.61	42.71	54.00	11.29	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Horizontal Polarization

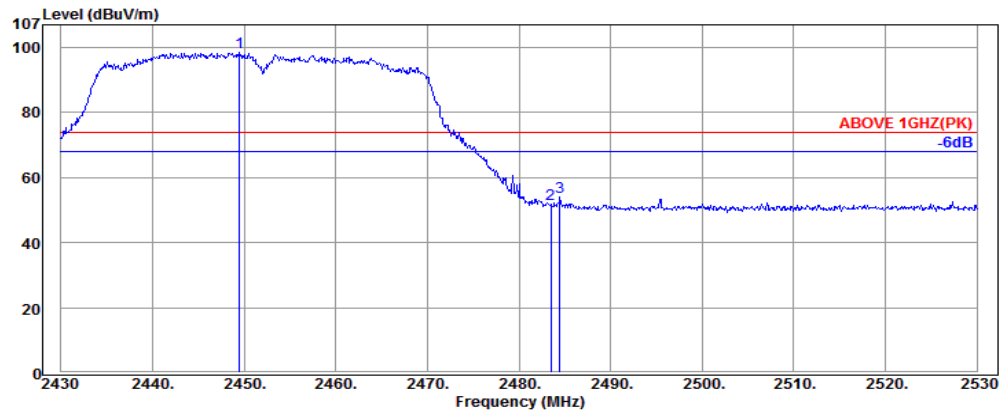
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2458.90	32.25	5.80	59.87	97.92	---	---	Peak
2483.50	32.28	5.82	13.82	51.92	74.00	22.08	Peak
2483.90	32.28	5.82	14.61	52.71	74.00	21.29	Peak



Antenna at Horizontal Polarization

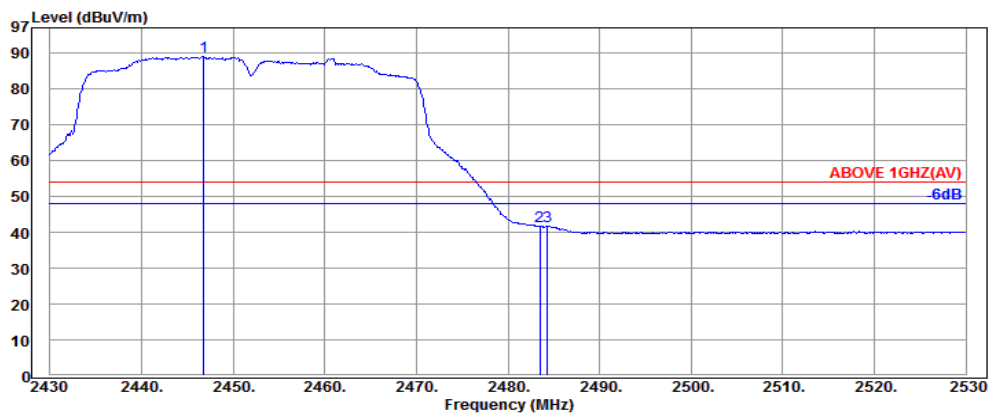
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2462.30	32.25	5.80	50.13	88.18	---	---	Average
2483.50	32.28	5.82	2.88	40.98	54.00	13.02	Average
2484.20	32.28	5.82	3.01	41.11	54.00	12.89	Average

Mode	802.11n-HT40	Frequency	TX 2452MHz
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Antenna at Vertical Polarization

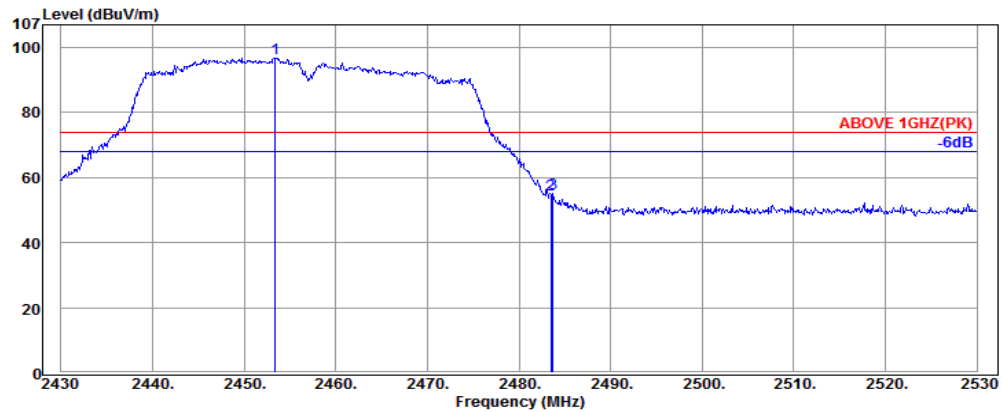
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2449.50	32.23	5.78	60.55	98.56	---	---	Peak
2483.50	32.28	5.82	13.83	51.93	74.00	22.07	Peak
2484.50	32.28	5.82	15.98	54.08	74.00	19.92	Peak



Antenna at Vertical Polarization

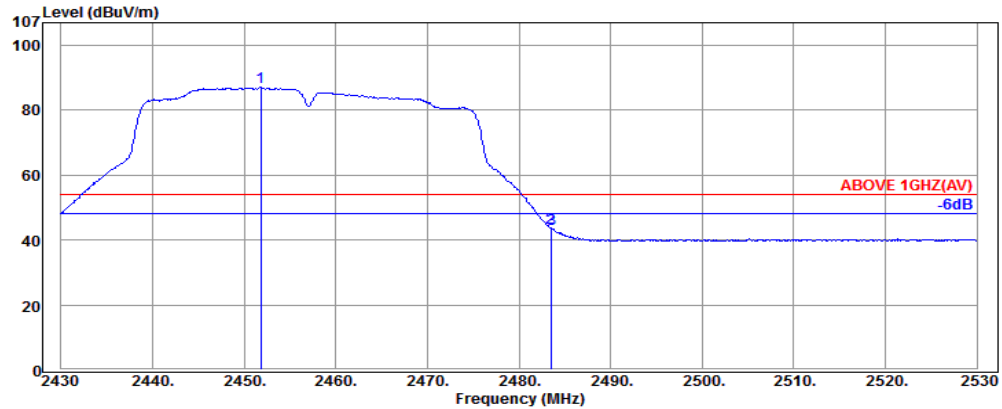
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2446.80	32.23	5.78	50.98	88.99	---	---	Average
2483.50	32.28	5.82	3.48	41.58	54.00	12.42	Average
2484.30	32.28	5.82	3.72	41.82	54.00	12.18	Average

Mode	802.11n-HT40	Frequency	TX 2457MHz
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Antenna at Horizontal Polarization

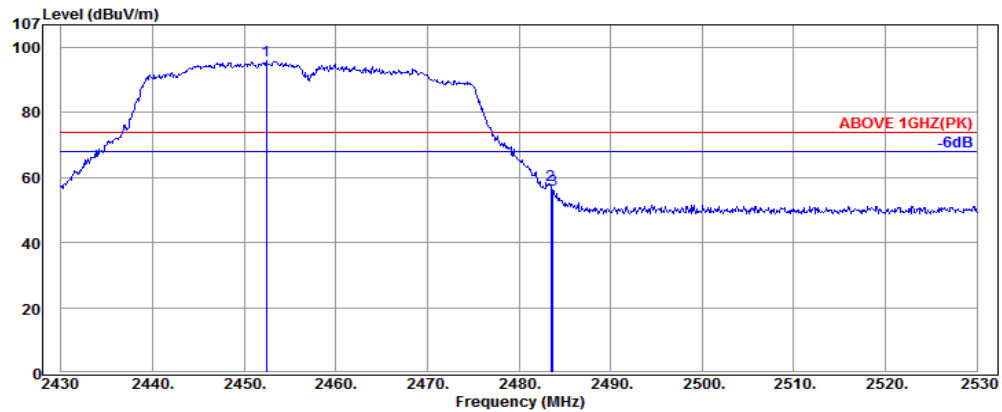
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2453.40	32.23	6.15	58.47	96.85	---	---	Peak
2483.50	32.28	6.19	16.15	54.62	74.00	19.38	Peak
2483.70	32.28	6.19	16.69	55.16	74.00	18.84	Peak



Antenna at Horizontal Polarization

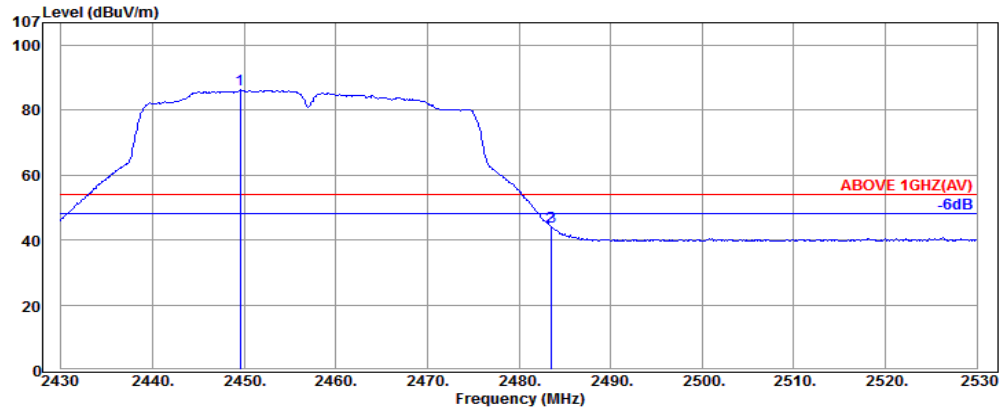
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2451.80	32.23	6.15	48.62	87.00	---	---	Average
2483.50	32.28	6.19	5.13	43.60	54.00	10.40	Average
2483.60	32.28	6.19	4.98	43.45	54.00	10.55	Average

Mode	802.11n-HT40	Frequency	TX 2457MHz
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Antenna at Vertical Polarization

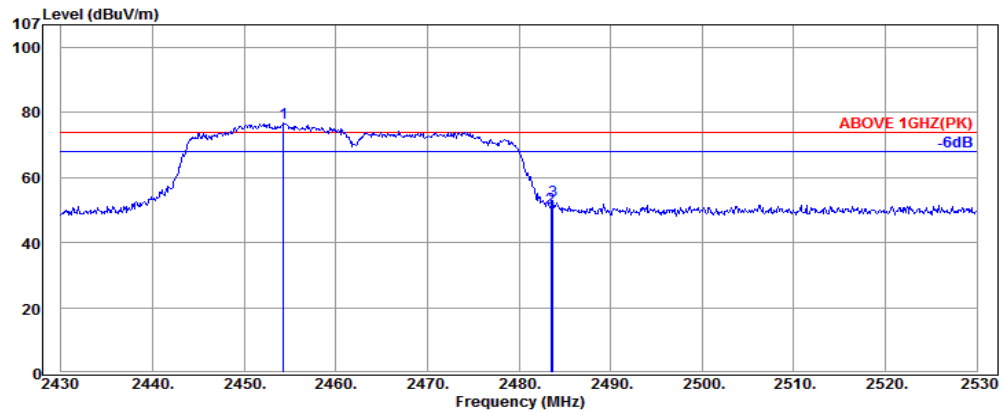
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2452.40	32.23	6.15	57.46	95.84	---	---	Peak
2483.50	32.28	6.19	19.17	57.64	74.00	16.36	Peak
2483.70	32.28	6.19	17.68	56.15	74.00	17.85	Peak



Antenna at Vertical Polarization

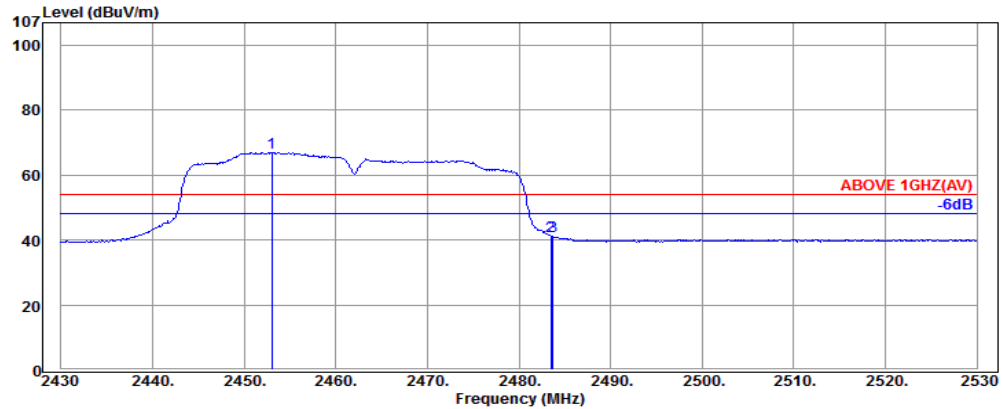
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2449.60	32.23	6.14	47.92	86.29	---	---	Average
2483.50	32.28	6.19	5.60	44.07	54.00	9.93	Average
2483.60	32.28	6.19	5.54	44.01	54.00	9.99	Average

Mode	802.11n-HT40	Frequency	TX 2462MHz
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Antenna at Vertical Polarization

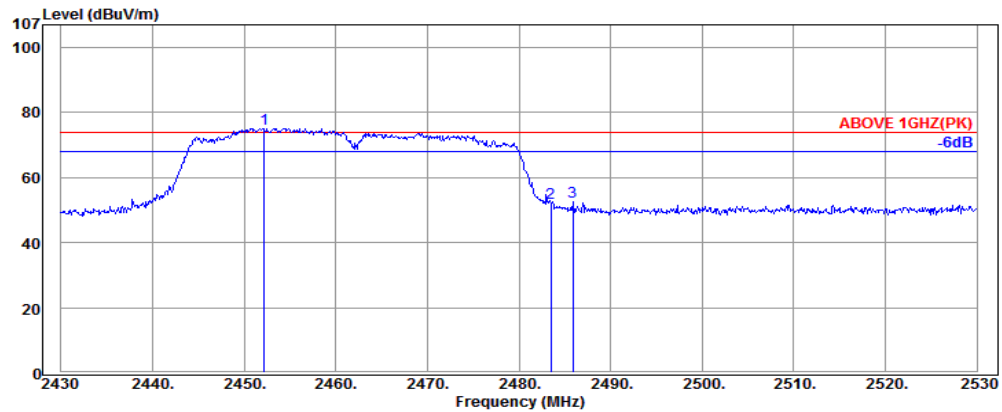
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2454.30	32.25	6.15	38.27	76.67	---	---	Peak
2483.50	32.28	6.19	12.44	50.91	74.00	23.09	Peak
2483.70	32.28	6.19	14.50	52.97	74.00	21.03	Peak



Antenna at Vertical Polarization

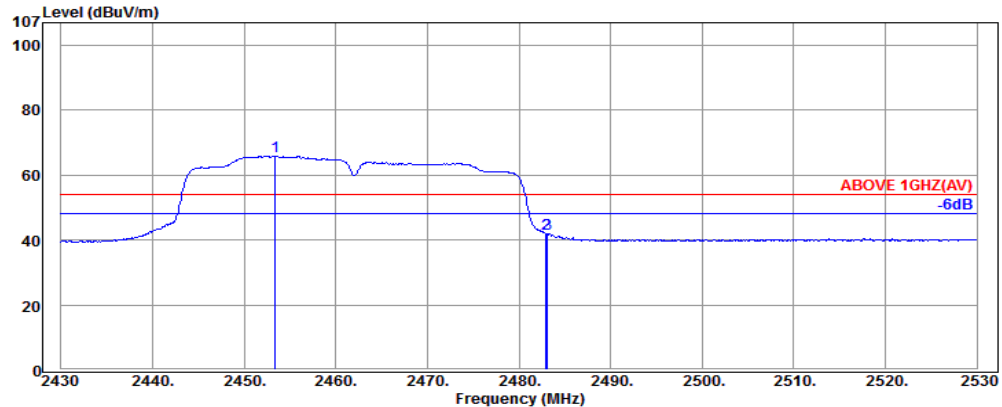
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2453.00	32.23	6.15	28.62	67.00	---	---	Average
2483.50	32.28	6.19	2.88	41.35	54.00	12.65	Average
2483.70	32.28	6.19	2.85	41.32	54.00	12.68	Average

Mode	BLE	Frequency	TX 2402MHz
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Antenna at Horizontal Polarization

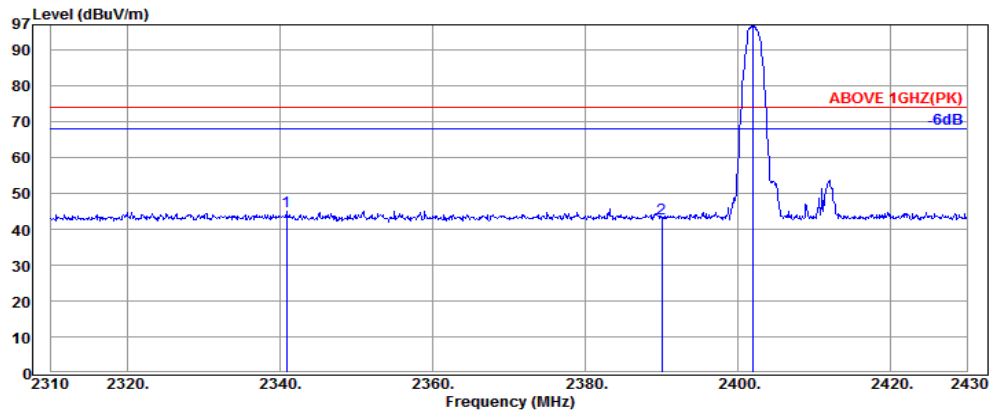
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2452.20	32.23	6.15	36.77	75.15	74.00	-1.15	Peak
2483.50	32.28	6.19	13.71	52.18	74.00	21.82	Peak
2485.90	32.28	6.19	14.16	52.63	---	---	Peak



Antenna at Horizontal Polarization

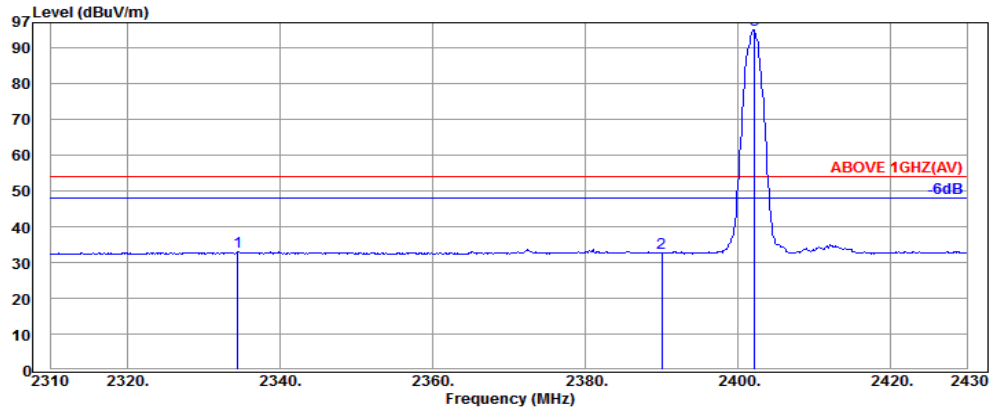
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2453.40	32.23	6.15	27.45	65.83	54.00	-11.83	Average
2483.00	32.28	6.19	3.34	41.81	54.00	12.19	Average
2483.10	32.28	6.19	3.57	42.04	---	---	Average

Mode	BLE	Frequency	TX 2402MHz
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Antenna at Vertical Polarization

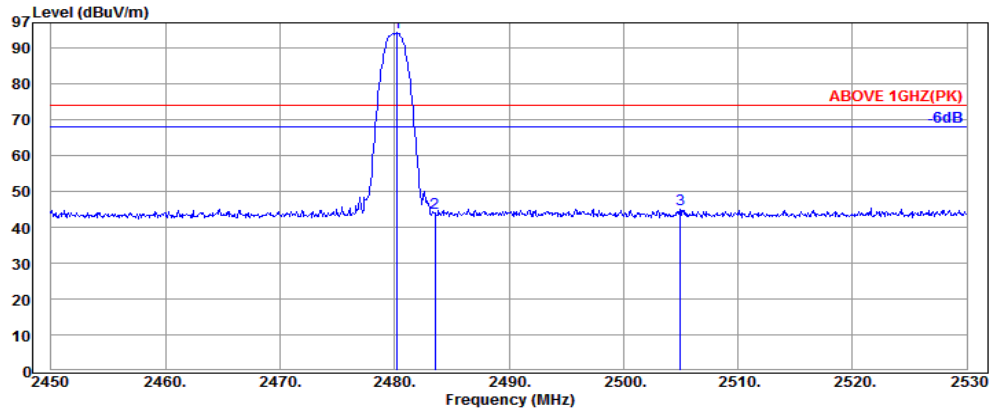
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2340.84	32.08	5.68	7.38	45.14	74.00	28.86	Peak
2390.04	32.16	5.72	5.20	43.08	74.00	30.92	Peak
2401.92	32.16	5.72	59.02	96.90	---	---	Peak



Antenna at Vertical Polarization

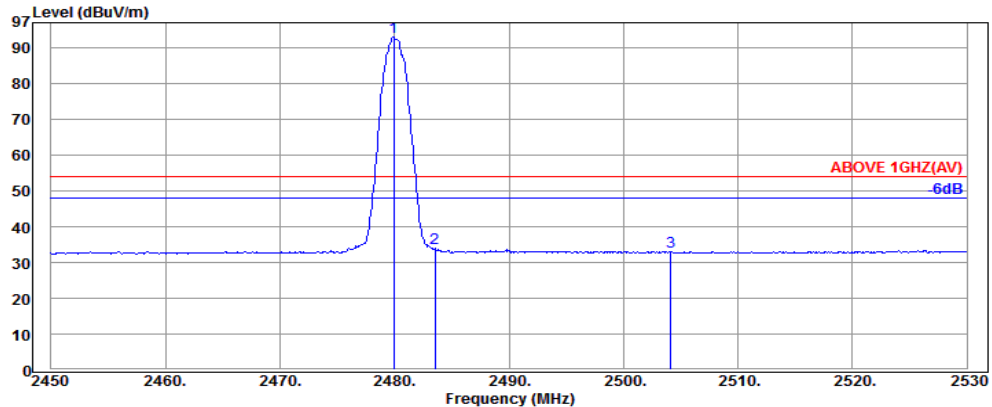
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2334.48	32.06	5.67	-4.75	32.98	54.00	21.02	Average
2390.04	32.16	5.72	-5.19	32.69	54.00	21.31	Average
2402.16	32.16	5.72	57.04	94.92	---	---	Average

Mode	BLE	Frequency	TX 2480MHz
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Antenna at Horizontal Polarization

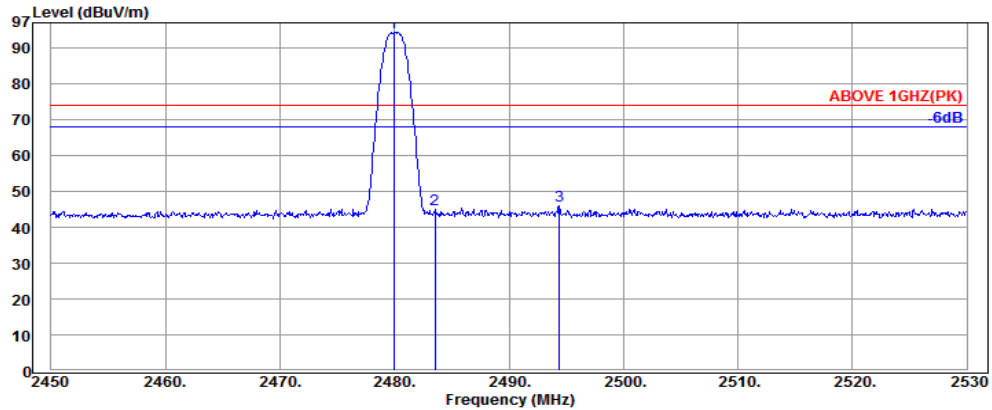
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2480.24	32.28	5.82	56.33	94.43	---	---	Peak
2483.52	32.28	5.82	5.97	44.07	74.00	29.93	Peak
2504.96	32.32	5.87	6.89	45.08	74.00	28.92	Peak



Antenna at Horizontal Polarization

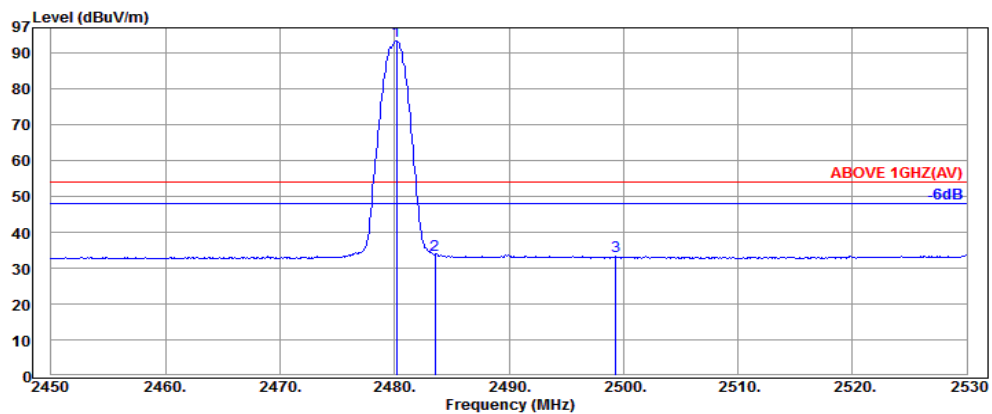
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
2479.92	32.28	5.82	54.96	93.06	---	---	Average
2483.52	32.28	5.82	-4.25	33.85	54.00	20.15	Average
2504.16	32.30	5.84	-4.97	33.17	54.00	20.83	Average

Mode	BLE	Frequency	TX 2480MHz
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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
2479.92	32.28	5.82	56.27	94.37	---	---	Peak
2483.52	32.28	5.82	6.97	45.07	74.00	28.93	Peak
2494.40	32.30	5.84	7.80	45.94	74.00	28.06	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
2480.16	32.28	5.82	55.36	93.46	---	---	Average
2483.52	32.28	5.82	-4.52	33.58	54.00	20.42	Average
2499.36	32.30	5.84	-4.77	33.37	54.00	20.63	Average

6.5.3. Emissions outside the frequency band:

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

Mode	802.11b	Frequency	TX 2437MHz
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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
4875.00	34.25	8.35	0.21	42.81	54.00	11.19	Peak
7555.00	35.81	10.92	0.72	47.45	54.00	6.55	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
4875.00	34.25	8.35	1.51	44.11	54.00	9.89	Peak
7355.00	35.80	10.02	-1.02	44.80	54.00	9.20	Peak

Mode	802.11g	Frequency	TX 2437MHz
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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
1062.00	28.09	3.42	9.30	40.81	54.00	13.19	Peak
2132.00	31.79	5.46	8.96	46.21	54.00	7.79	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
1064.00	28.09	3.42	17.51	49.02	54.00	4.98	Peak
2126.00	31.77	5.43	15.20	52.40	54.00	1.60	Peak

Mode	802.11n-HT20	Frequency	TX 2437MHz
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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
4875.00	34.25	8.35	0.55	43.15	54.00	10.85	Peak
7310.00	35.80	9.82	-1.79	43.83	54.00	10.17	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
4225.00	33.67	8.00	4.08	45.75	54.00	8.25	Peak
4875.00	34.25	8.35	0.27	42.87	54.00	11.13	Peak
7310.00	35.80	9.82	-2.71	42.91	54.00	11.09	Peak

Mode	802.11n-HT40	Frequency	TX 2437MHz
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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
4875.00	34.25	8.35	0.95	43.55	54.00	10.45	Peak
7310.00	35.80	9.82	-1.90	43.72	54.00	10.28	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
1066.00	28.09	3.42	12.75	44.26	54.00	9.74	Peak
4875.00	34.25	8.35	-0.02	42.58	54.00	11.42	Peak
7310.00	35.80	9.82	-2.30	43.32	54.00	10.68	Peak

Mode	BLE	Frequency	TX 2402MHz
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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
1064.00	28.09	3.42	11.86	43.37	54.00	10.63	Peak
2132.00	31.79	5.46	7.98	45.23	54.00	8.77	Peak
4120.00	33.51	7.76	3.80	45.07	54.00	8.93	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
1062.00	28.09	3.42	18.28	49.79	54.00	4.21	Peak
2126.00	31.77	5.43	15.93	53.13	54.00	0.87	Peak
3195.00	32.86	6.43	9.89	49.18	54.00	4.82	Peak
4255.00	33.70	8.00	4.73	46.43	54.00	7.57	Peak

Mode	BLE	Frequency	TX 2440MHz
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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
1066.00	28.09	3.42	12.72	44.23	54.00	9.77	Peak
2132.00	31.79	5.46	9.59	46.84	54.00	7.16	Peak
4230.00	33.67	8.00	3.42	45.09	54.00	8.91	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
1064.00	28.09	3.42	18.42	49.93	54.00	4.07	Peak
2124.00	31.77	5.43	16.42	53.62	54.00	0.38	Peak
3195.00	32.86	6.43	8.13	47.42	54.00	6.58	Peak
4265.00	33.73	8.00	5.64	47.37	54.00	6.63	Peak

Mode	BLE	Frequency	TX 2480MHz
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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
1066.00	28.09	3.83	12.88	44.80	54.00	9.20	Peak
2134.00	31.79	5.62	7.10	44.51	54.00	9.49	Peak

Antenna at Vertical Polarization

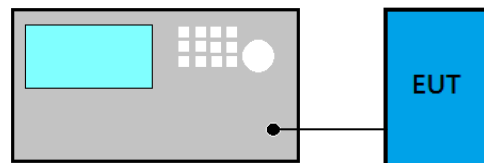
Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1062.00	28.09	3.82	17.36	49.27	54.00	4.73	Peak
2124.00	31.77	5.60	15.37	52.74	54.00	1.26	Peak
4255.00	33.70	8.72	4.47	46.89	54.00	7.11	Peak

6.5.4. Emissions in Non-restricted Frequency Bands

Pursuant to KDB 558074 D01 v03r03 that emission levels below the 15.209/RSS-Gen 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)**

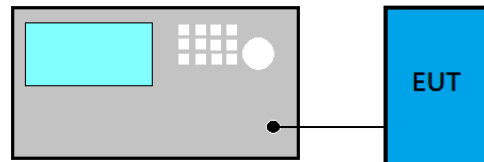
- (1) Set span to at least 1.5 times the OBW
- (2) Set RBW = 1 -5% of OBW
- (3) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- (4) Detector = RMS.
- (5) Trace mode = trace average at least 100 traces
- (6) Sweep = auto couple.
- (7) Compute power by integrating the spectrum across the OBW of the 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

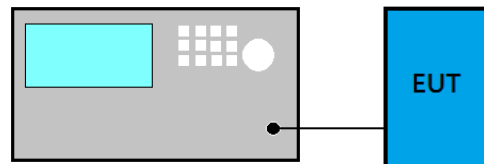
- (1) Set analyzer center frequency to DTS channel center frequency.
- (2) Set the span to 1.5 times the DTS bandwidth.
- (3) Set the RBW to: 100 kHz.
- (4) Set the VBW $\geq 3 \times$ RBW.
- (5) Detector = peak.
- (6) Sweep time = auto couple.
- (7) Trace mode = max hold.
- (8) Allow trace to fully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



AUDIX Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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Tel: +886 2 26099301
Fax: +886 2 26099303

APPENDIX A

TEST PLOTS

(Model: 13Z970)

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A.1 6dB BANDWIDTH MEASUREMENT

Test Date	2016/11/17 ~ 28	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)

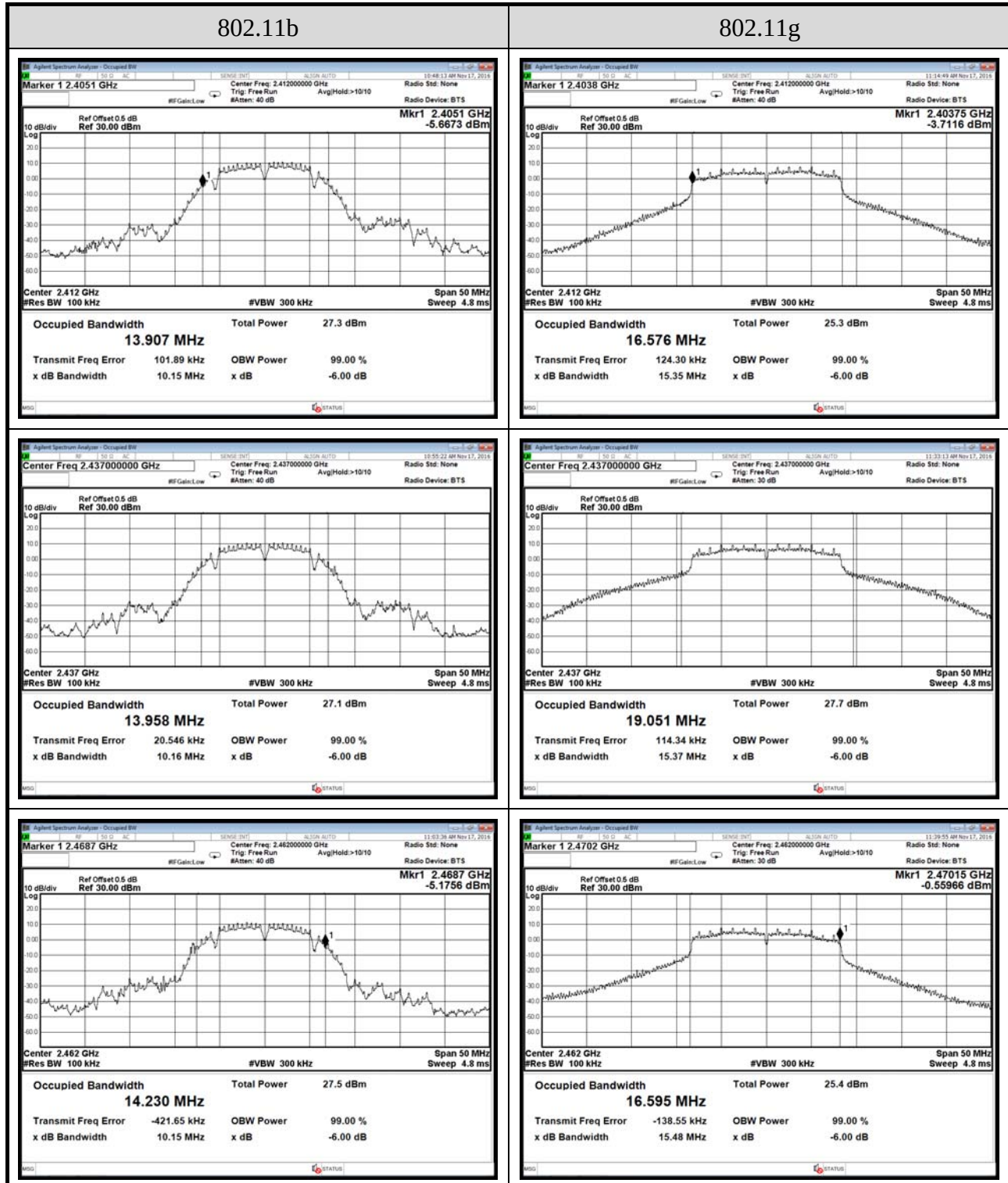
A.1.1 6dB Bandwidth Result

Modulation Type	Centre Frequency (MHz)	6 dB Bandwidth (MHz)	Limit
802.11b	2412	10.15	>500kHz
	2437	10.16	
	2462	10.15	
	2472	11.05	
802.11g	2412	15.35	
	2437	15.37	
	2462	15.48	
	2472	16.03	
802.11n-HT20	2412	16.68	
	2437	17.63	
	2462	16.40	
	2472	16.35	
802.11n-HT40	2422	35.14	
	2437	35.18	
	2452	35.12	
	2462	32.52	
BLE	2402	0.6450	
	2440	0.6573	
	2480	0.6655	

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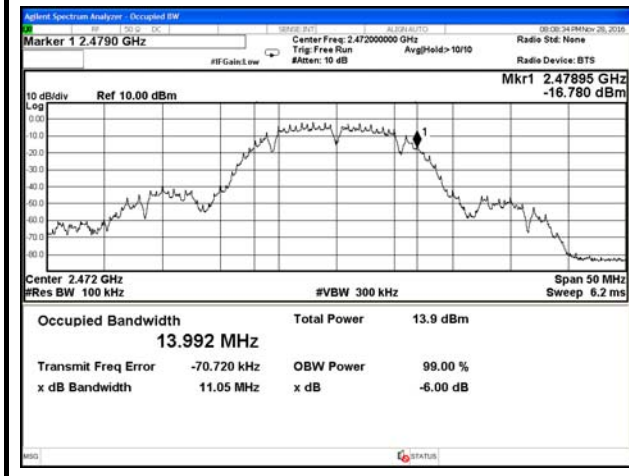
A.1.2 Measurement Plots



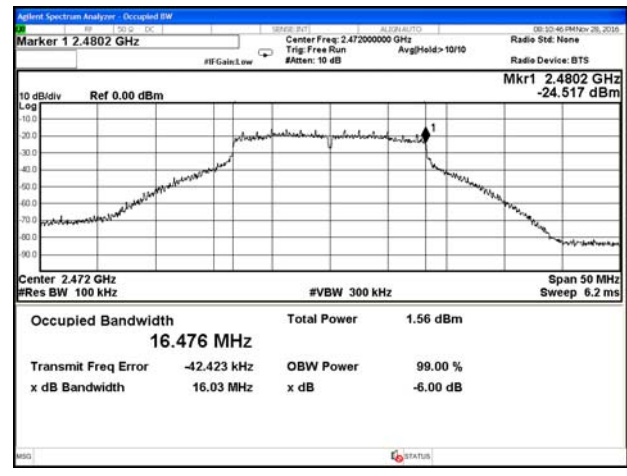
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Fax: +886 2 26099303

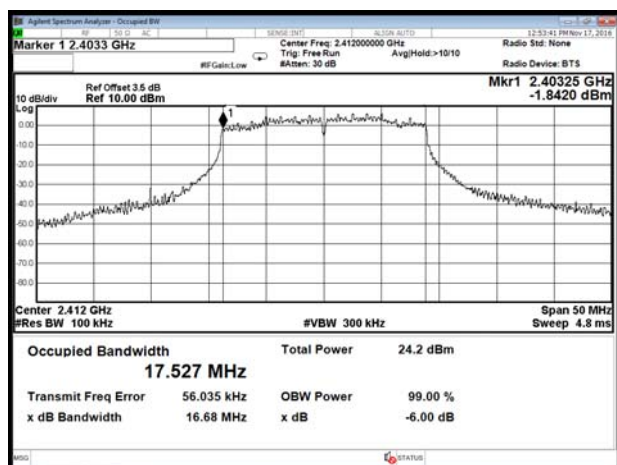
802.11b



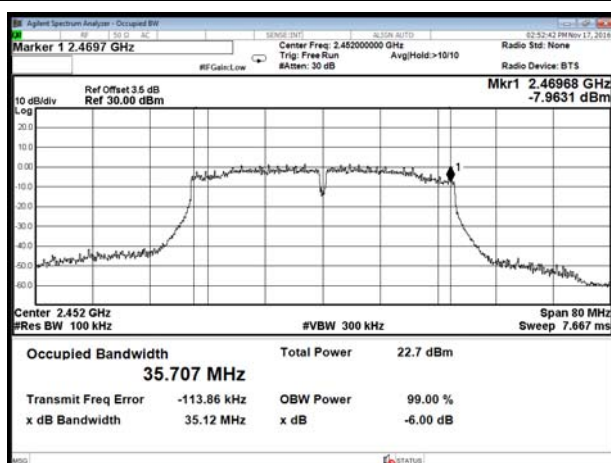
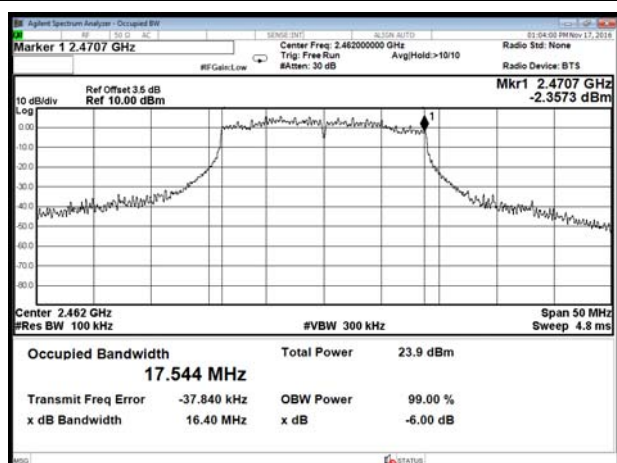
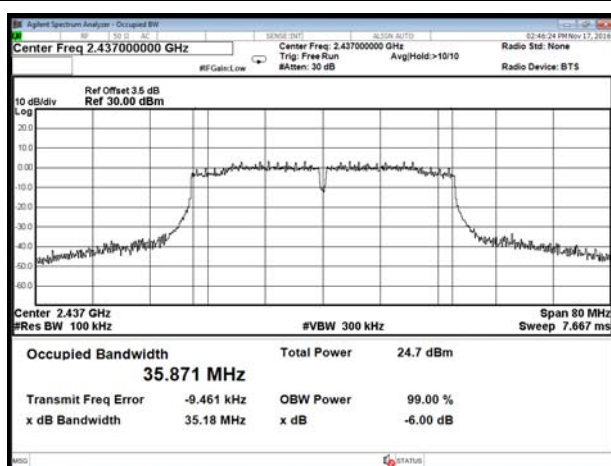
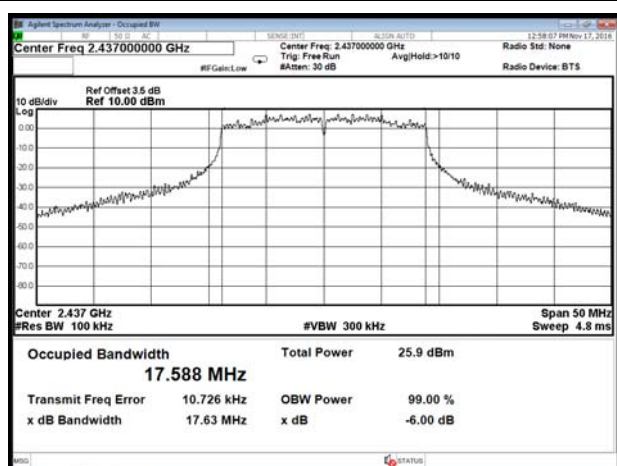
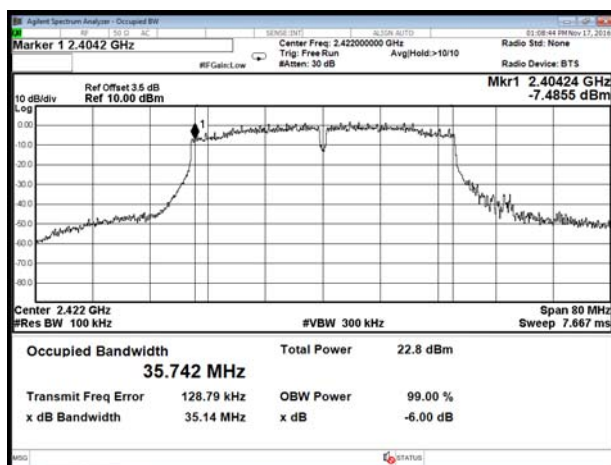
802.11g



802.11n-HT20



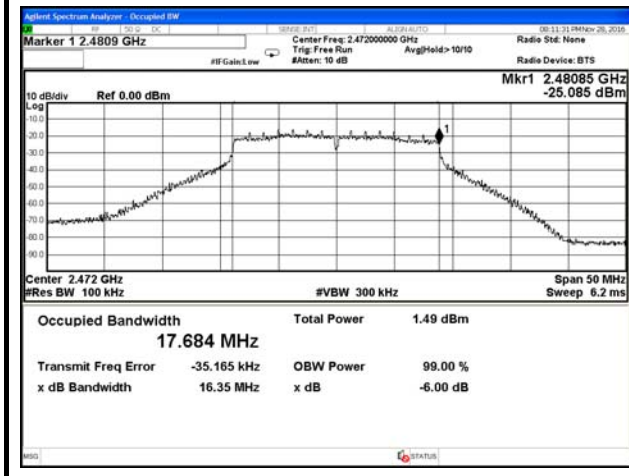
802.11n-HT40



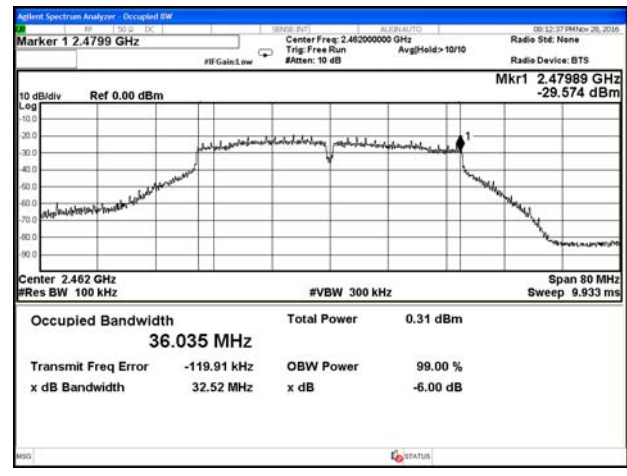
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New Taipei City 244, Taiwan

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Fax: +886 2 26099303

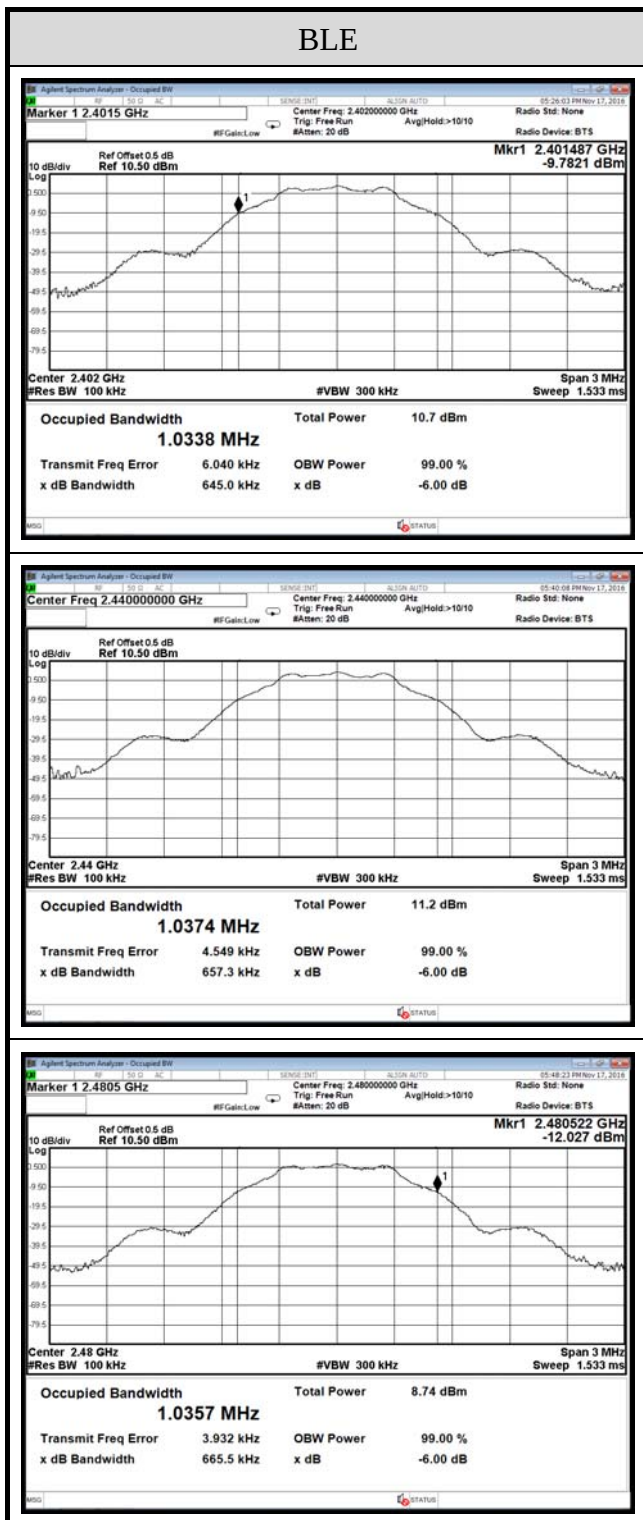
802.11n-HT20



802.11n-HT40



BLE



A.2 MAXIMUM PEAK OUTPUT POWER MEASUREMENT

Test Date	2016/11/17 ~ 28	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)

A.2.1 Peak Output Power

Modulation Type	Centre Frequency (MHz)	Output Power (dBm)		Maximum Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
802.11b	2412	21.28	21.11	21.28	0.134276	3.26	24.54	0.284446	< 30dBm (1W) (Maximum Peak Output Power) < 36dBm (4W) (E.I.R.P)
	2417	21.26	21.13	21.26	0.133660		24.52	0.283139	
	2437	21.29	21.09	21.29	0.134586		24.55	0.285102	
	2457	21.31	21.1	21.31	0.135207		24.57	0.286418	
	2462	21.18	20.05	21.18	0.131220		24.44	0.277971	
	2467	19.04	19.00	19.04	0.080168		22.30	0.169824	
	2472	11.12	10.96	11.12	0.012942		14.38	0.027416	
802.11g	2412	21.72	21.51	21.72	0.148594		24.98	0.314775	
	2417	22.23	22.17	22.23	0.167109		25.49	0.353997	
	2437	22.3	22.22	22.30	0.169824		25.56	0.359749	
	2457	22.29	22.25	22.29	0.169434		25.55	0.358922	
	2462	21.17	20.96	21.17	0.130918		24.43	0.277332	
	2467	17.03	16.01	17.03	0.050466		20.29	0.106905	
	2472	3.75	3.06	3.75	0.002371		7.01	0.005023	
802.11n-HT20	2412	18.46	18.46	21.47	0.140281		24.73	0.297167	
	2417	19.36	18.68	22.04	0.159956		25.30	0.338844	
	2437	19.37	18.72	22.07	0.161065		25.33	0.341193	
	2457	19.35	18.74	22.07	0.161065		25.33	0.341193	
	2462	17.24	17.28	20.27	0.106414		23.53	0.225424	
	2467	16.71	16.19	19.47	0.088512		22.73	0.187499	
	2472	-0.61	-0.32	2.55	0.001799		5.81	0.003811	
802.11n-HT40	2422	15.23	15.56	18.41	0.069343		21.67	0.146893	
	2427	17.12	17.36	20.25	0.105925		23.51	0.224388	
	2437	17.15	17.52	20.35	0.108393		23.61	0.229615	
	2447	17.09	17.49	20.30	0.107152		23.56	0.226986	
	2452	15.34	15.23	18.30	0.067608		21.56	0.143219	
	2457	15.79	16.70	19.28	0.084723		22.54	0.179473	
	2462	-2.18	-2.46	0.69	0.001172		3.95	0.002483	

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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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Fax: +886 2 26099303

Modulation Type	Centre Frequency (MHz)	Output Power (dBm)		Maximum Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)		Limit
		Chain 0	Chain 1	(dBm)	(W)		(dBm)	(W)	
BLE	2402	4.287	--	4.287	0.002683	2.64	6.93	0.004932	
	2440	4.633	--	4.633	0.002906		7.27	0.005333	
	2480	2.299	--	2.299	0.001698		4.94	0.003119	

Note: The results have been included cable loss.

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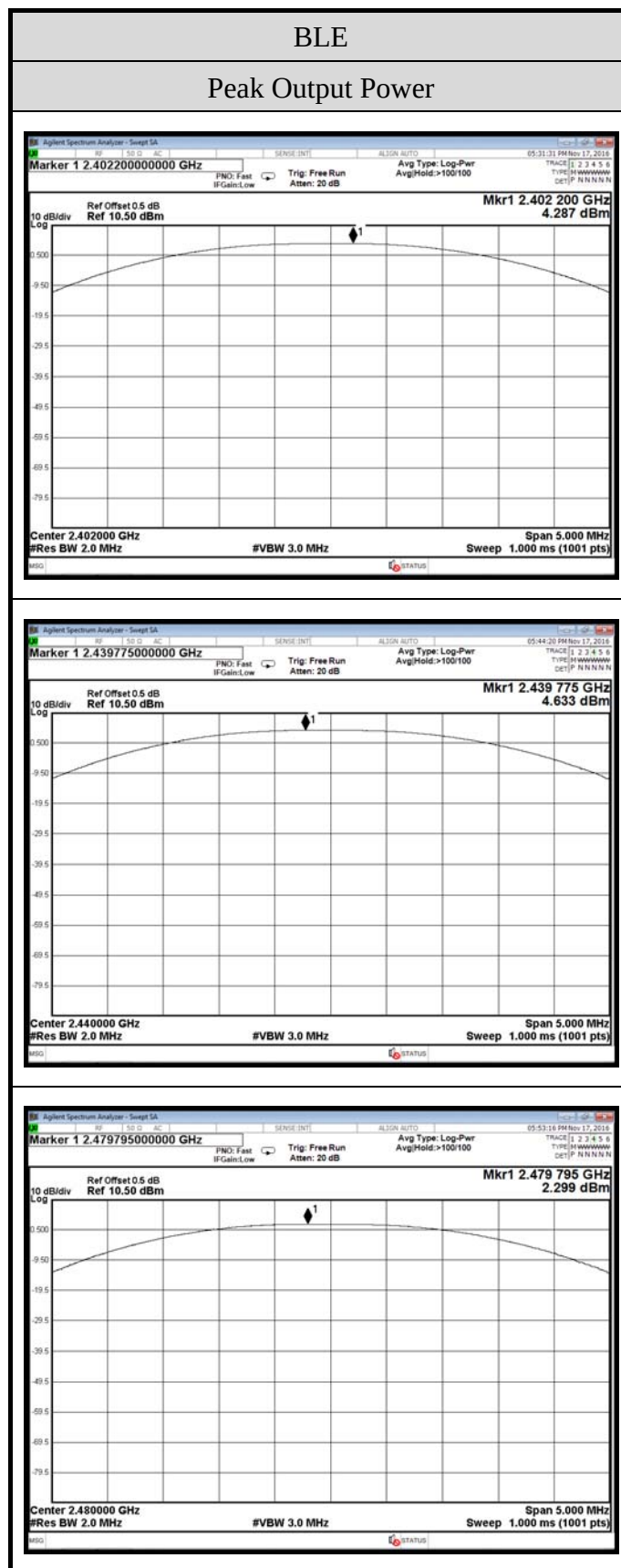
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A.2.2 Average Output Power (Reporting only)

Modulation Type	Centre Frequency (MHz)	Output Power (dBm)		10log (1/X)	Maximum Output Power		Antenna Gain (dBi)	Output Power (E.I.R.P.)	
		Chain 0	Chain 1		(dBm)	(W)		(dBm)	(W)
802.11b	2412	18.85	18.84	0	18.85	0.076736	3.26	22.11	0.162555
	2417	18.91	18.89		18.91	0.077804		22.17	0.164816
	2437	18.99	18.98		18.99	0.079250		22.25	0.167880
	2457	18.95	18.93		18.95	0.078524		22.21	0.166341
	2462	18.96	17.48		18.96	0.078705		22.22	0.166725
	2467	16.53	16.42		16.53	0.044978		19.79	0.095280
	2472	8.62	8.47		8.62	0.007278		11.88	0.015417
802.11g	2412	17.06	16.93	0	17.06	0.050816		20.32	0.107647
	2417	19.03	18.97		19.03	0.079983		22.29	0.169434
	2437	19.06	19.00		19.06	0.080538		22.32	0.170608
	2457	19.09	19.02		19.09	0.081096		22.35	0.171791
	2462	16.49	16.00		16.49	0.044566		19.75	0.094406
	2467	11.57	10.52		11.57	0.014355		14.83	0.030409
	2472	-1.98	-2.49		-1.98	0.000634		1.28	0.001343
802.11n-HT20	2412	12.84	12.79	0.13228 266	15.96	0.039446		19.22	0.083560
	2417	14.04	13.20		16.78	0.047643		20.04	0.100925
	2437	14.07	13.25		16.82	0.048084		20.08	0.101859
	2457	14.08	13.23		16.82	0.048084		20.08	0.101859
	2462	11.69	11.70		14.84	0.030479		18.10	0.064565
	2467	10.69	10.30		13.64	0.023121		16.90	0.048978
	2472	-6.16	-5.98		-2.93	0.000509		0.33	0.001079
802.11n-HT40	2422	10.50	10.92	0.26872 146	13.99	0.025061		17.25	0.053088
	2427	12.49	12.88		15.97	0.039537		19.23	0.083753
	2437	12.56	12.92		16.02	0.039994		19.28	0.084723
	2447	12.62	12.96		16.07	0.040458		19.33	0.085704
	2452	10.61	10.51		13.84	0.024210		17.10	0.051286
	2457	10.98	11.84		14.71	0.029580		17.97	0.062661
	2462	-6.66	-7.02		-3.56	0.000441		-0.30	0.000933

Note: The results have been included cable loss presented in section.

A.2.3 Peak Measurement Plots

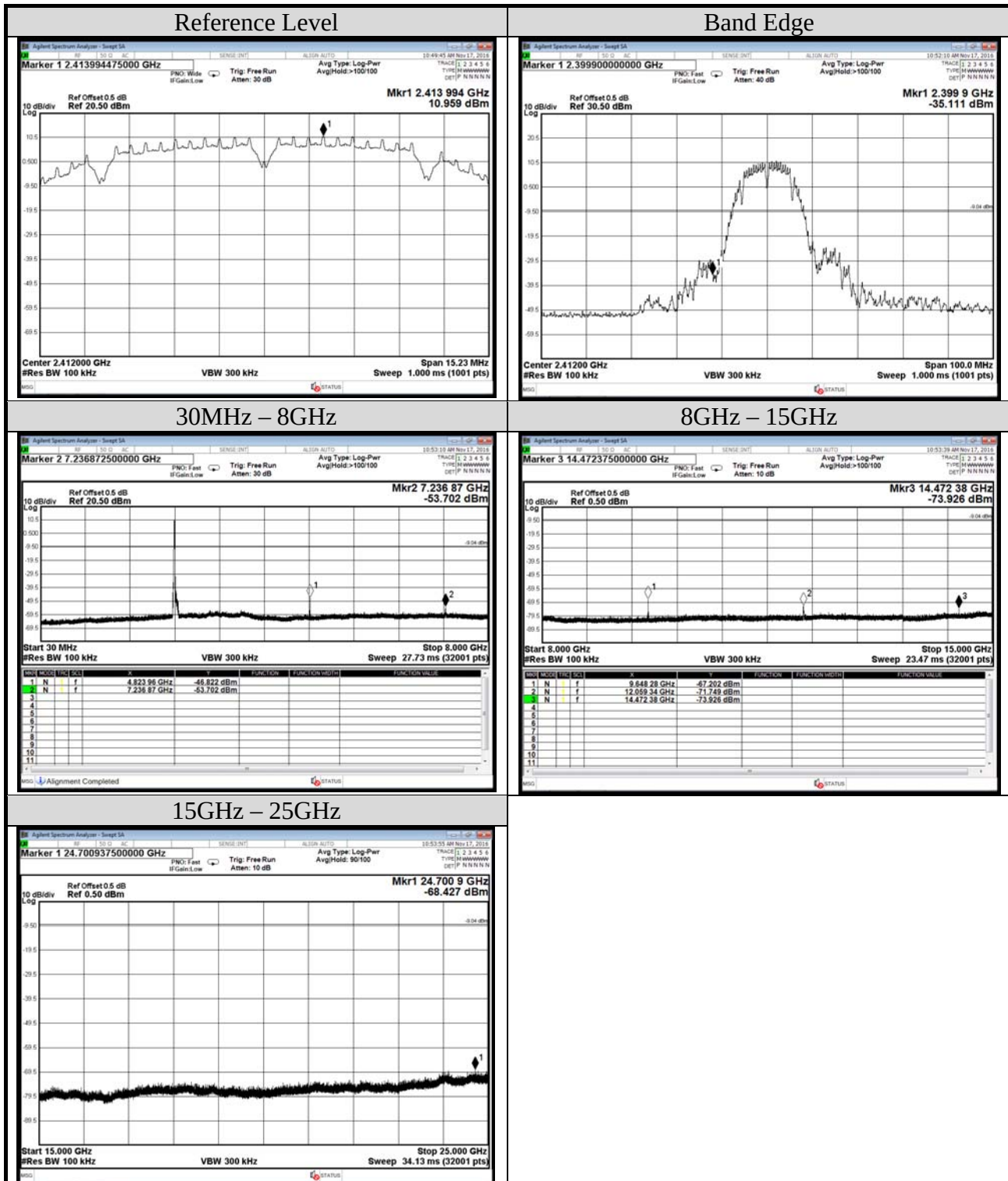


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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City 244, Taiwan

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Fax: +886 2 26099303

A.3 EMISSION LIMITATIONS MEASUREMENT

Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11b	Frequency	TX 2412MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)	0		



File Number: C1M1611057

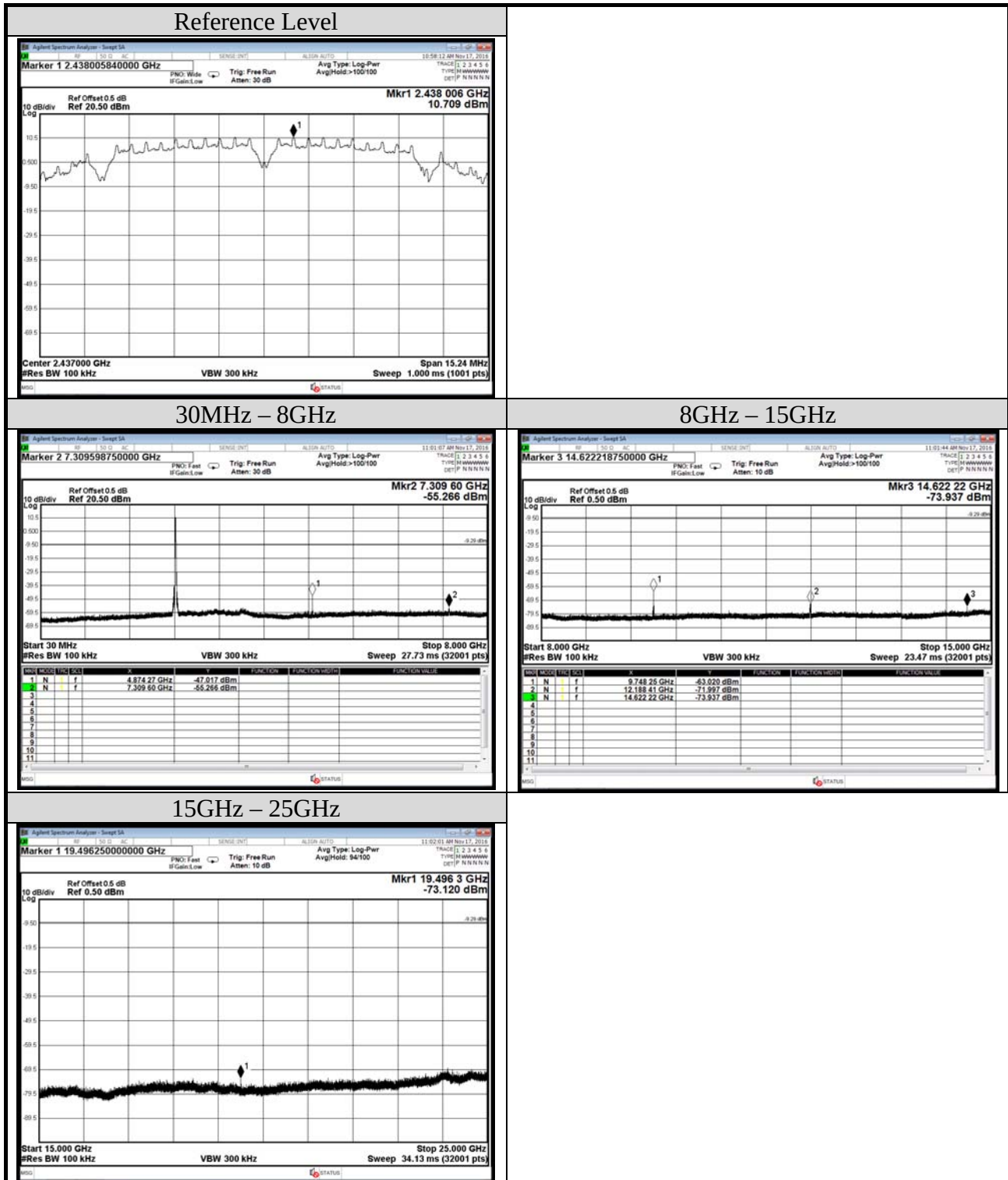
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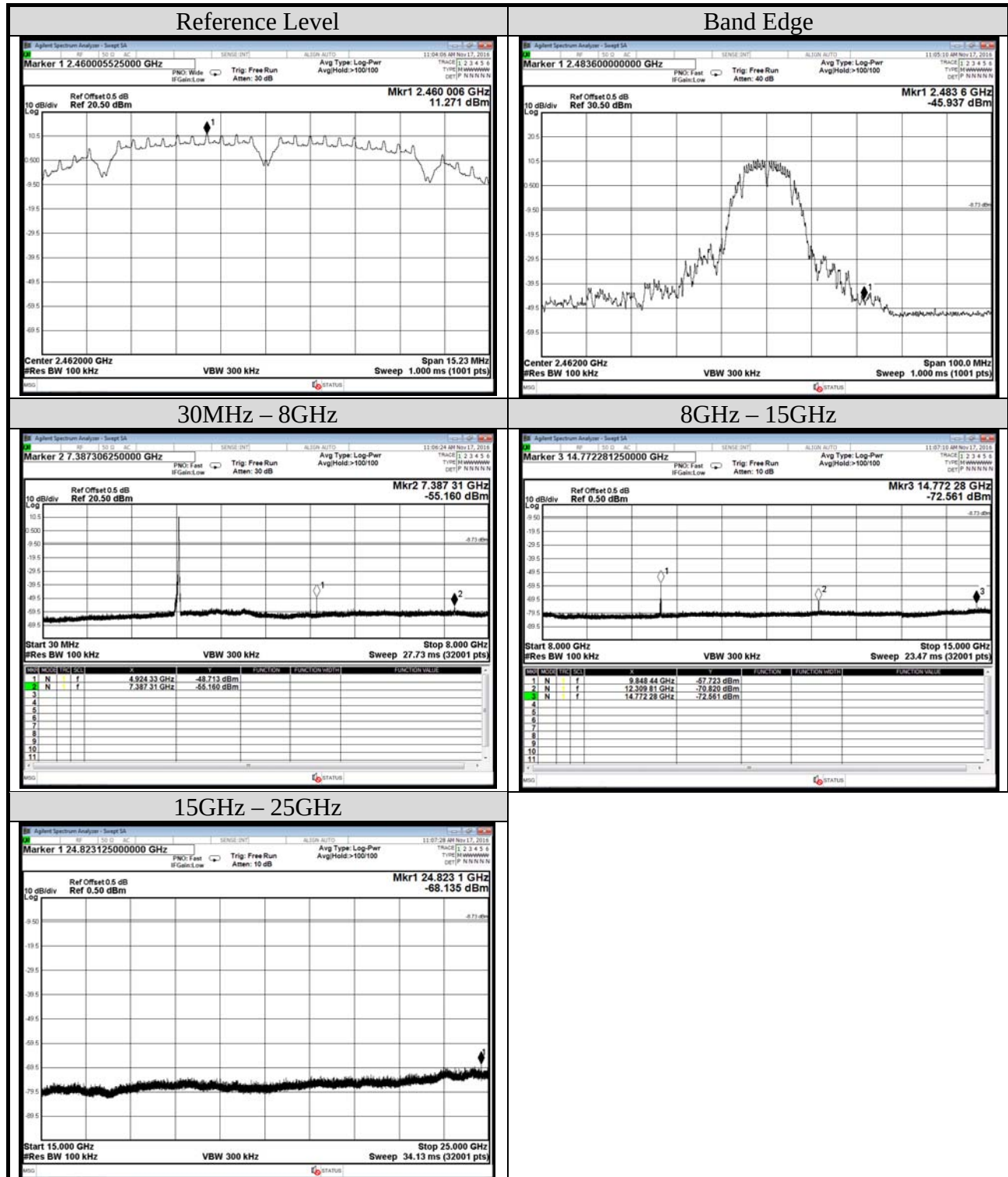
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11b	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)	0		



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Fax: +886 2 26099303

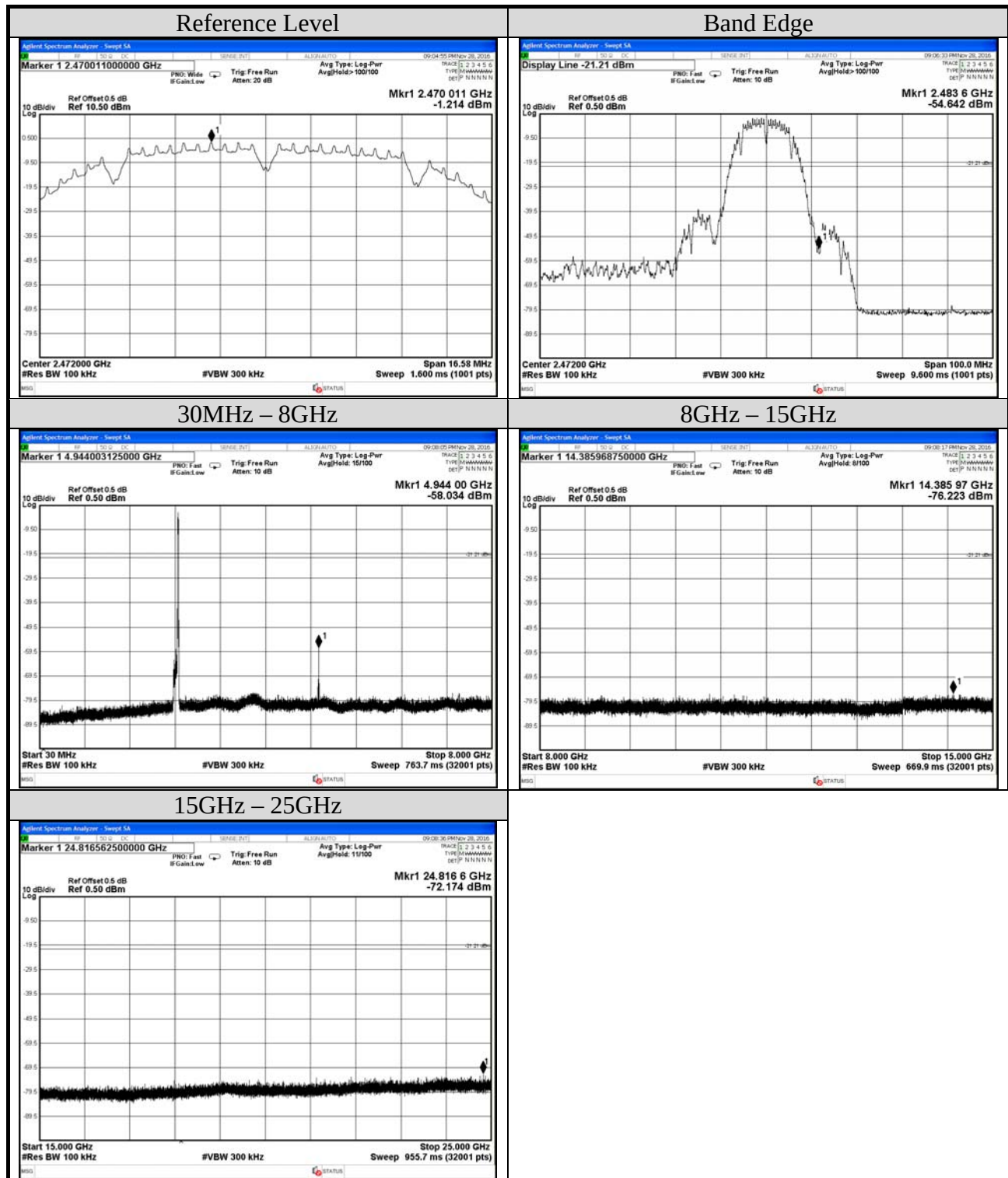
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11b	Frequency	TX 2462MHz
Simultaneous Factor	10 log(n) (Note: “n” is antenna number)		0



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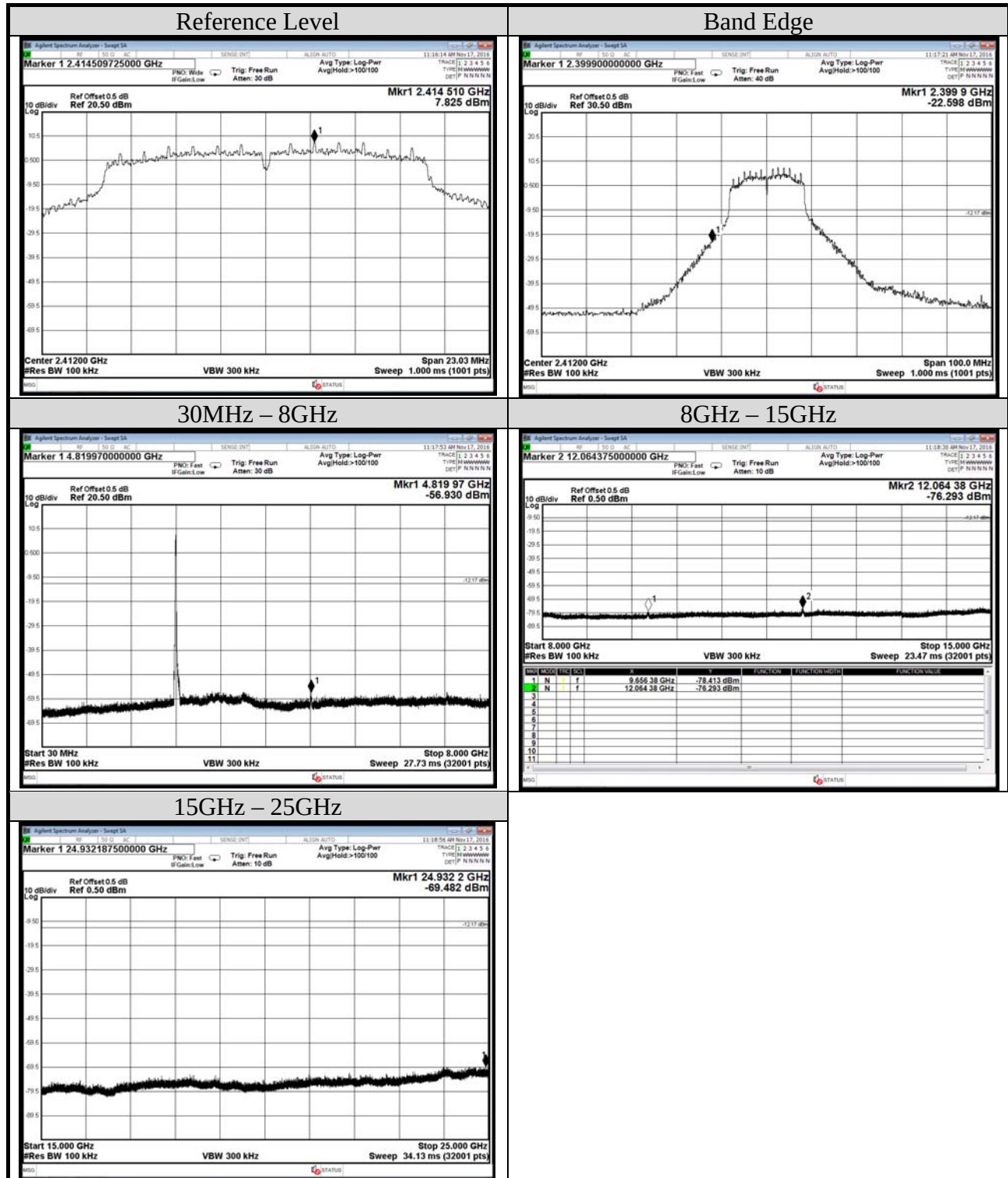
Test Date	2016/11/28	Temp./Hum.	25°C/55%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11b	Frequency	TX 2472MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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Tel: +886 2 26099301
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Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11g	Frequency	TX 2412MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



File Number: C1M1611057

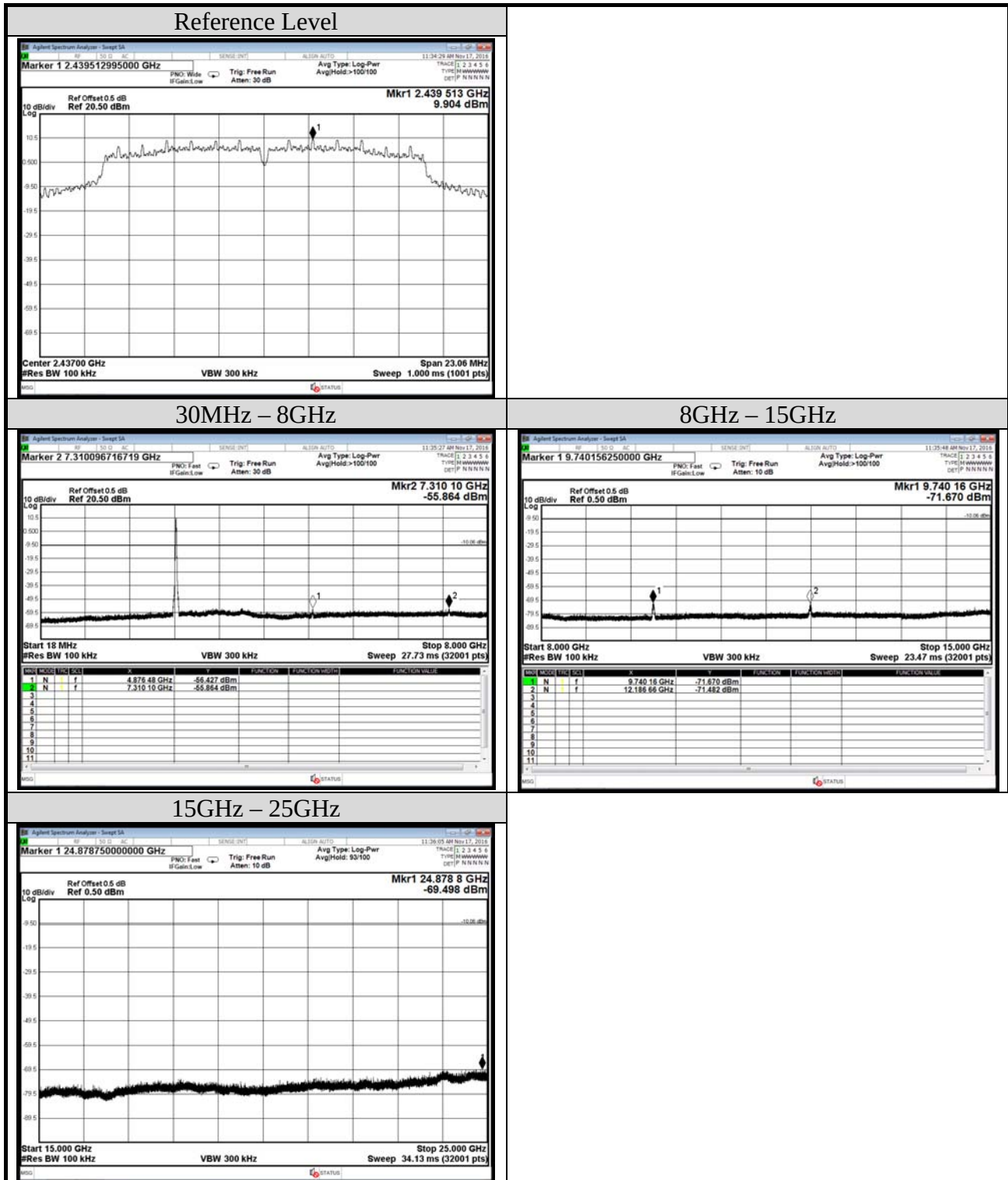
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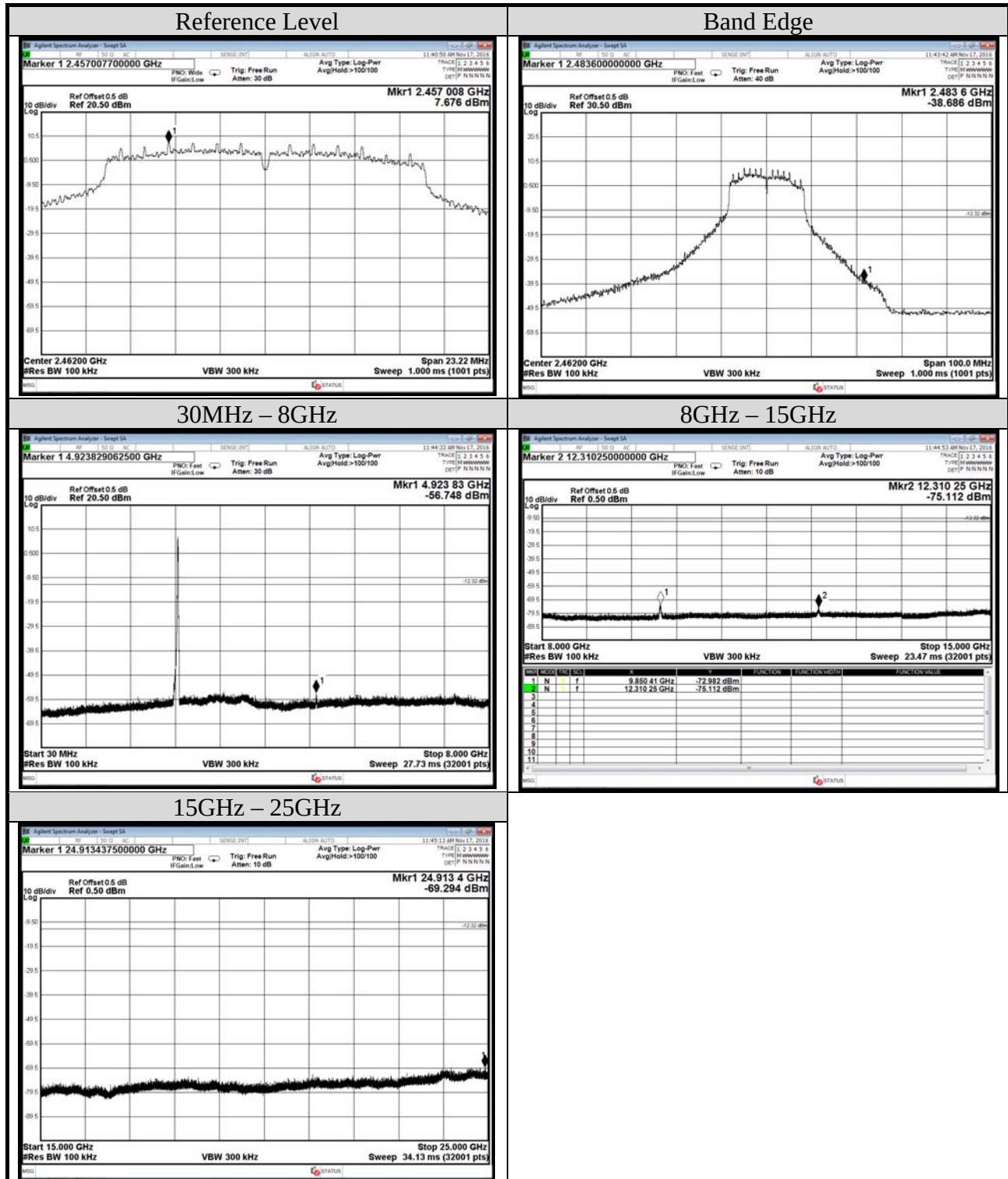
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11g	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: “n” is antenna number)	0		



AUDIX Technology Corp.
No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

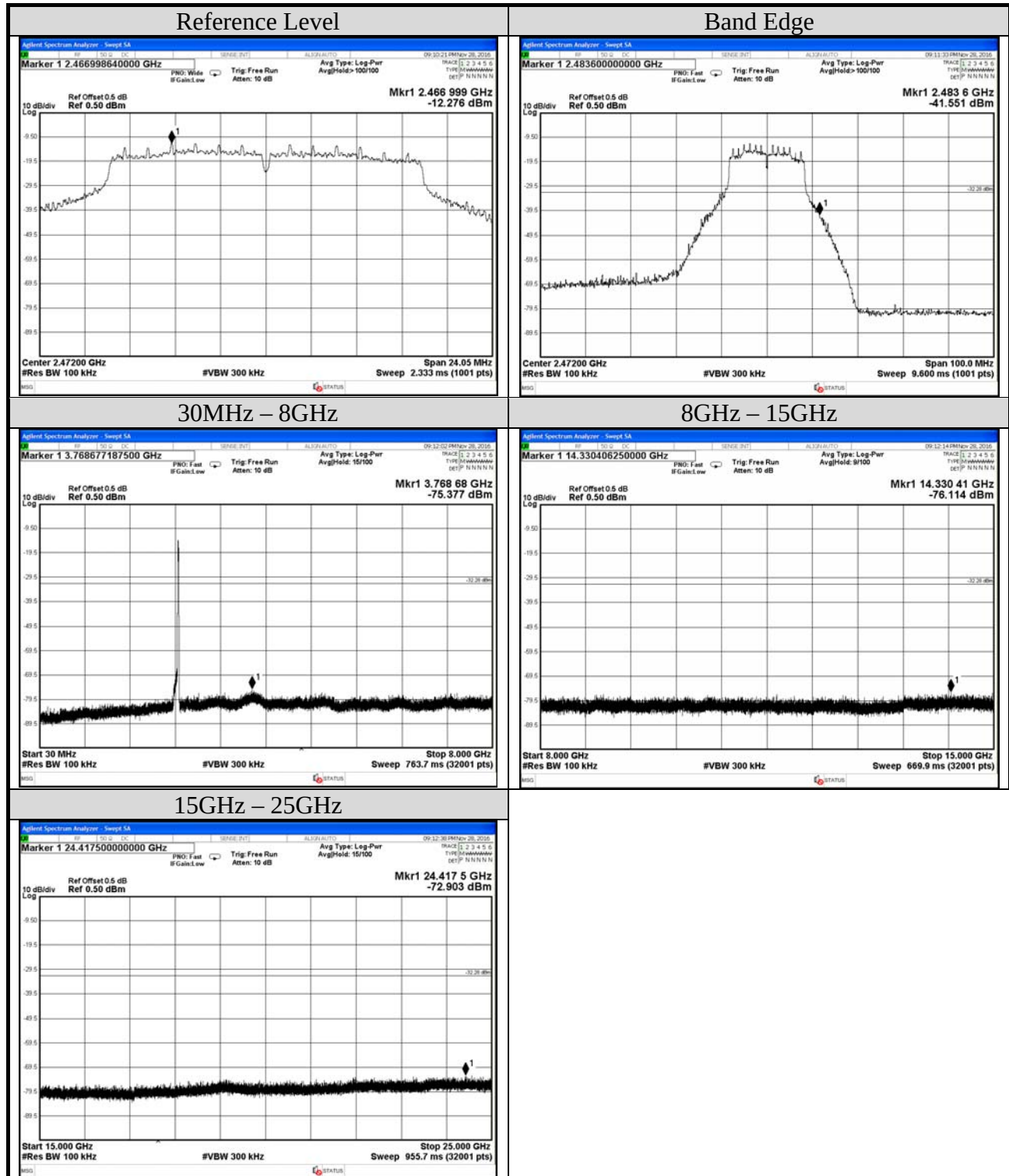
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11g	Frequency	TX 2462MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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No. 53-11, Dingfu, Linkou, Dist.,
New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

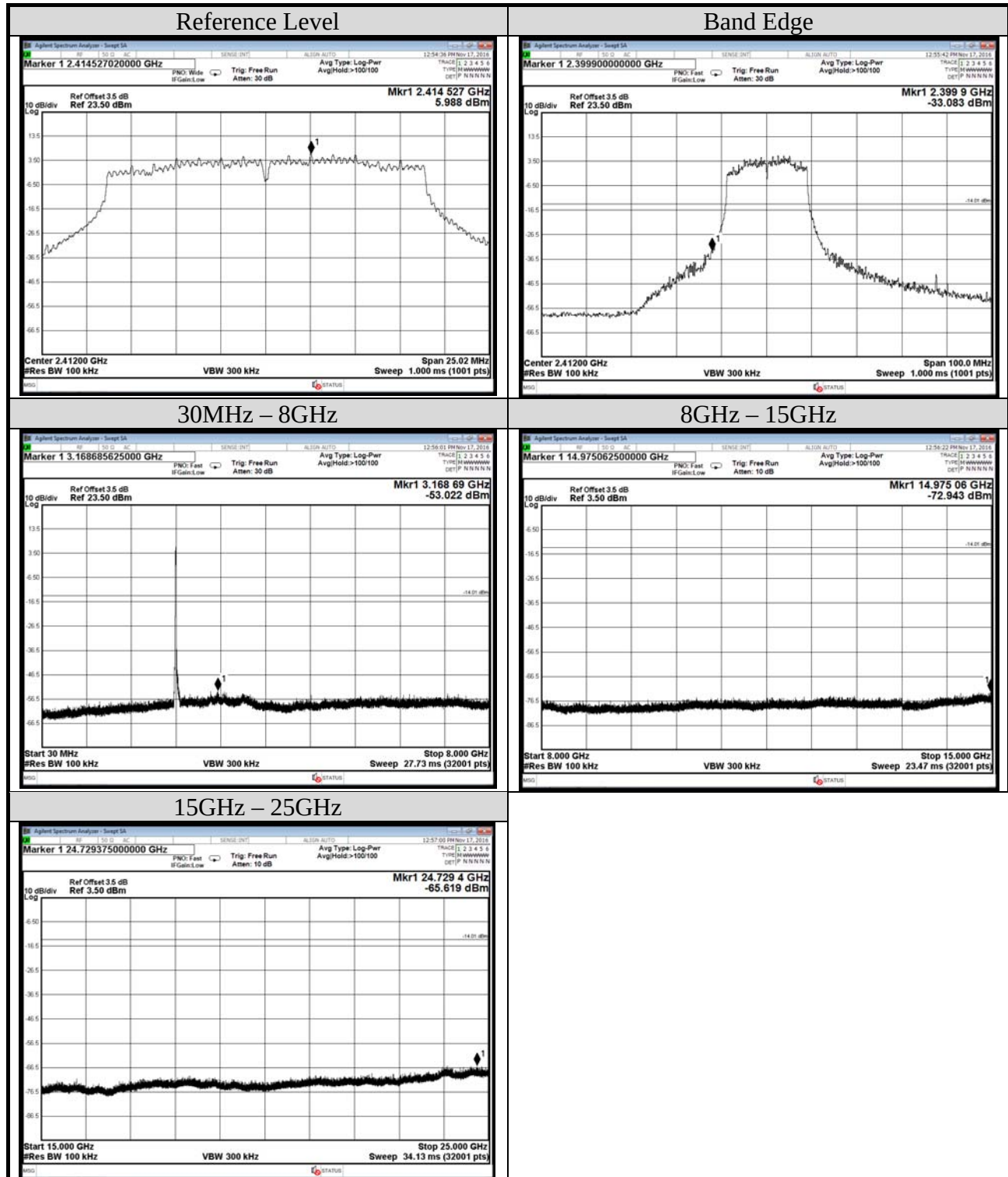
Test Date	2016/11/28	Temp./Hum.	25°C/55%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11g	Frequency	TX 2472MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		0



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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

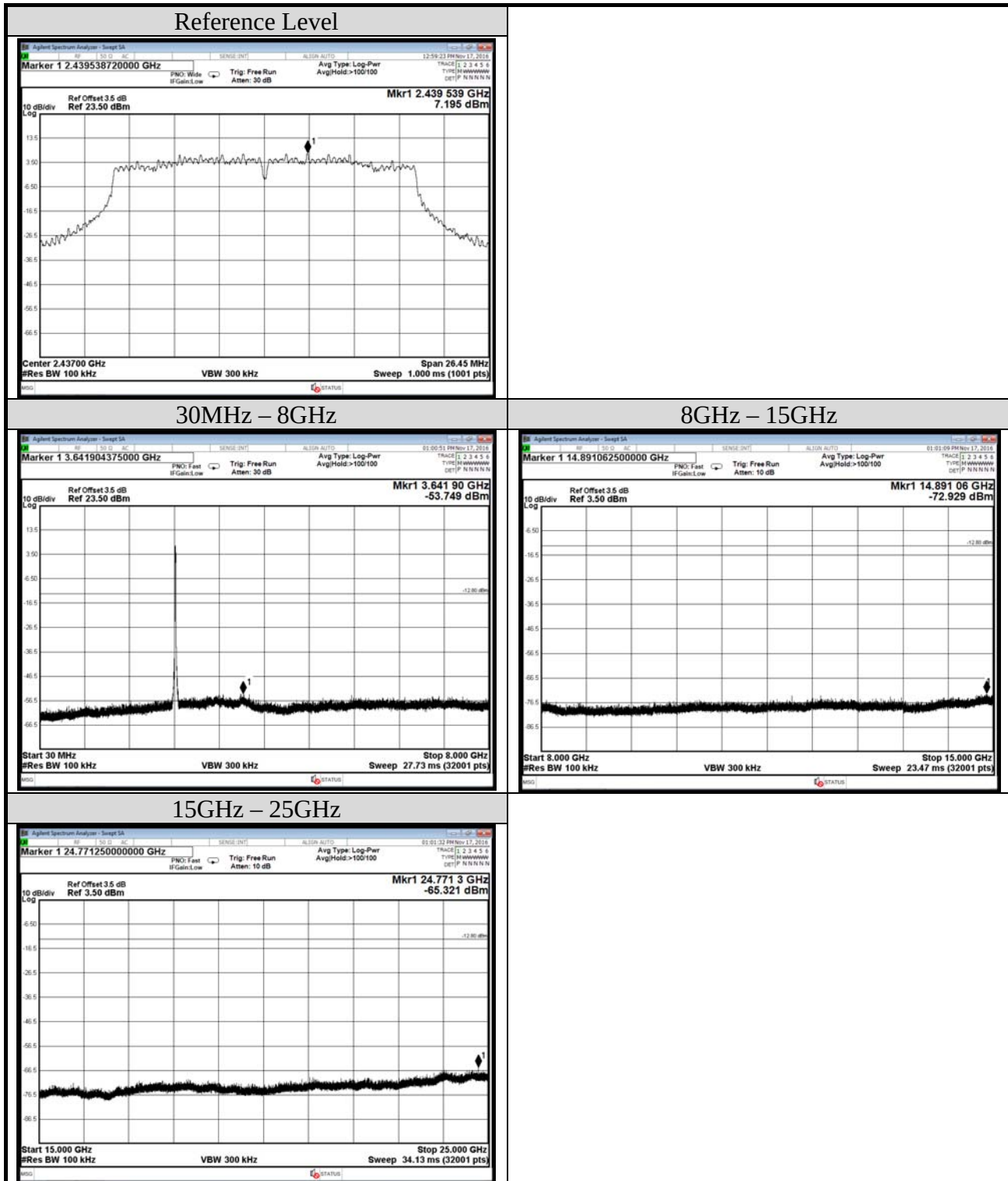
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT20	Frequency	TX 2412MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

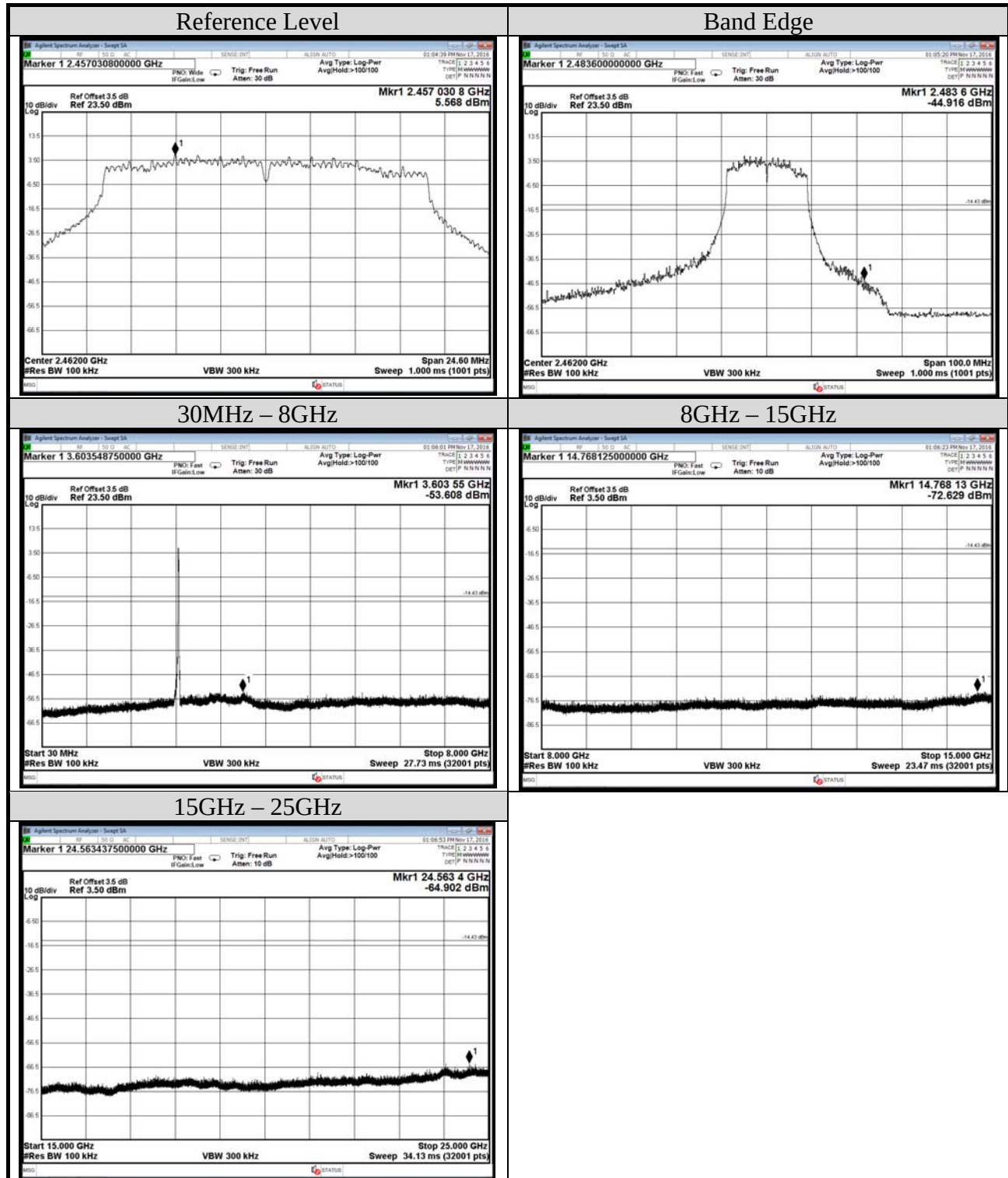
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT20	Frequency	TX 2437MHz
Simultaneous Factor10 log(n) (Note: "n" is antenna number)	3		



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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

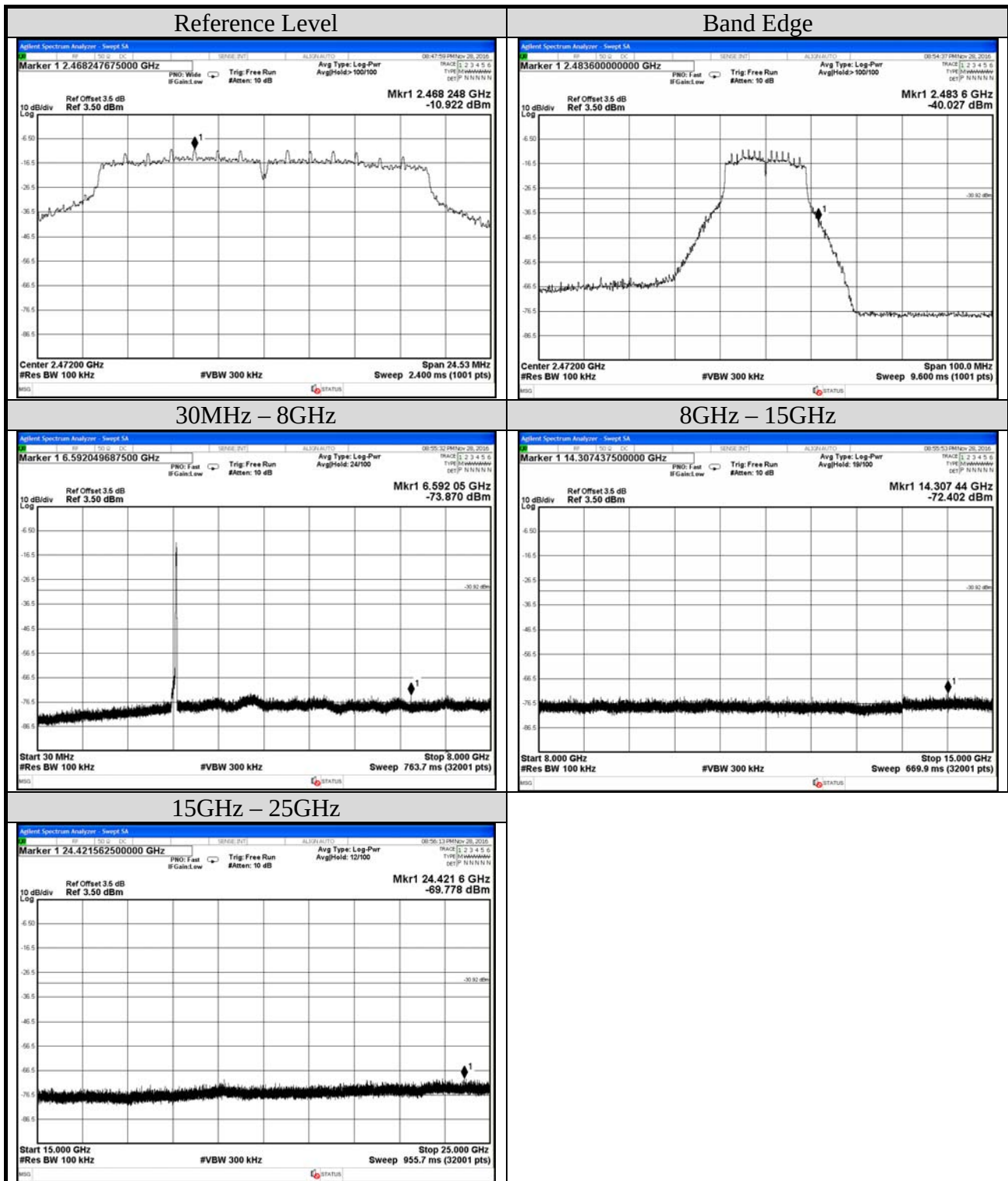
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT20	Frequency	TX 2462MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City244, Taiwan

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Fax: +886 2 26099303

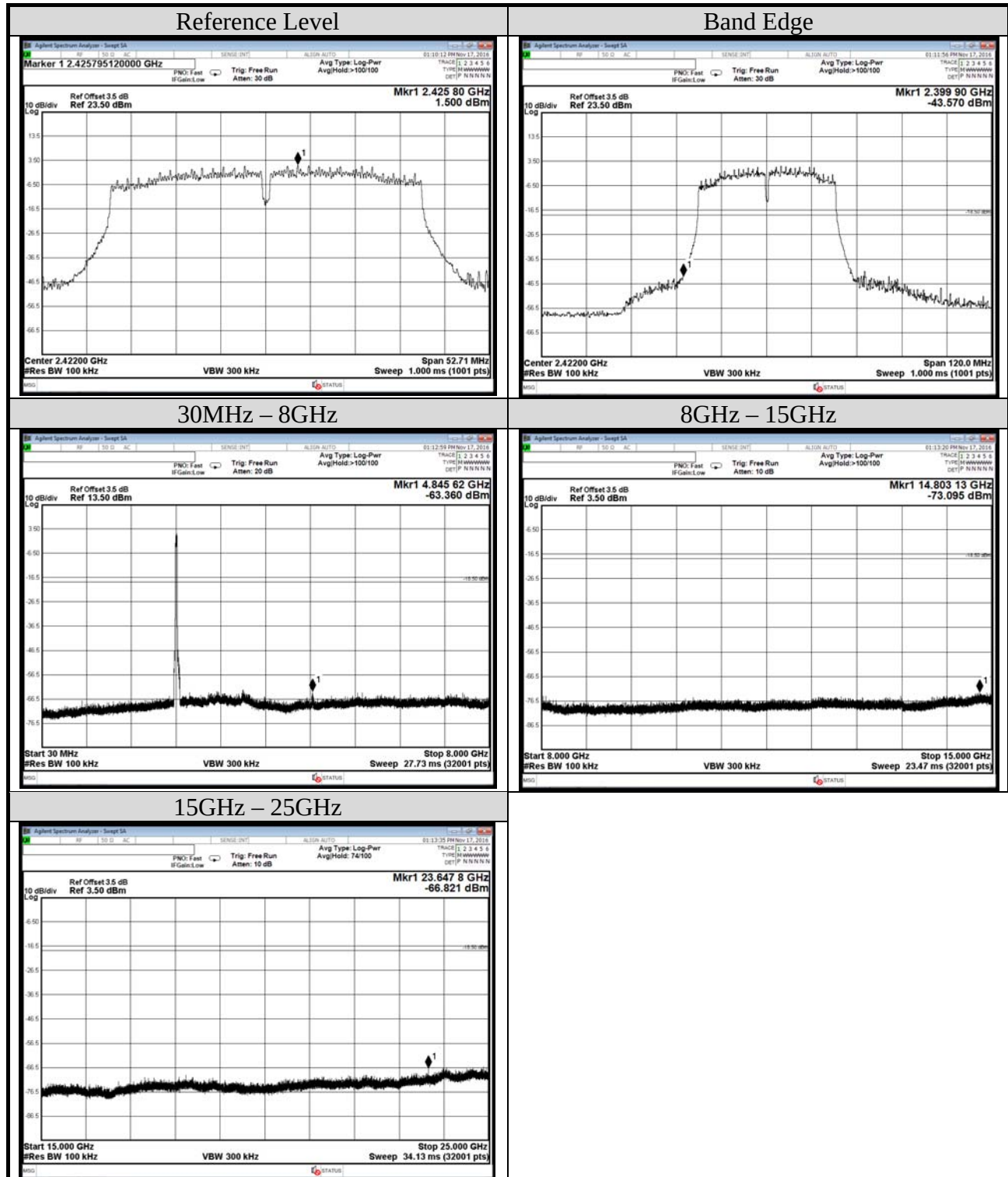
Test Date	2016/11/28	Temp./Hum.	25°C/55%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT20	Frequency	TX 2472MHz
Simultaneous Factor	10 log(n) (Note: “n” is antenna number)		3



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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

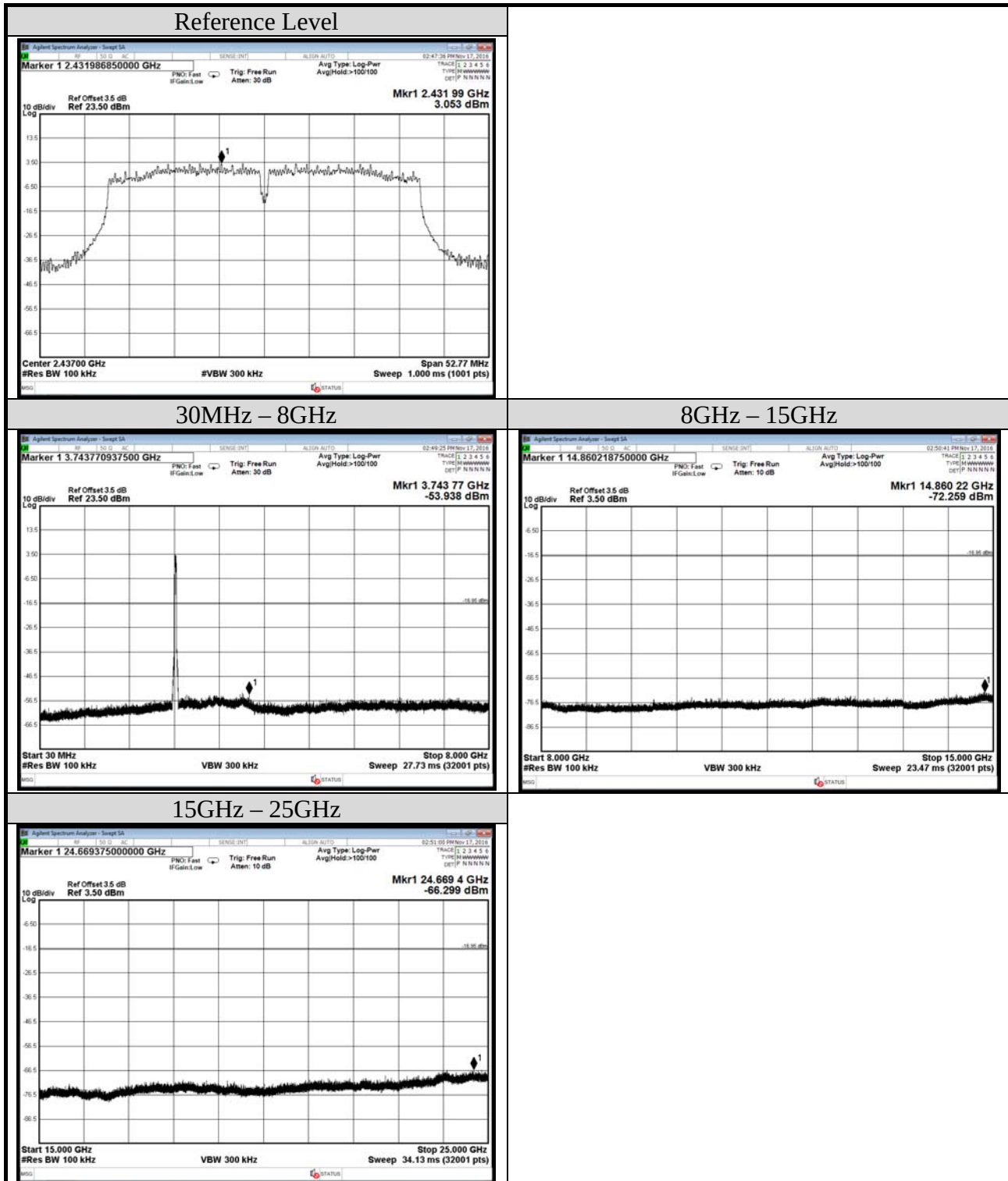
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT40	Frequency	TX 2422MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City244, Taiwan

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Fax: +886 2 26099303

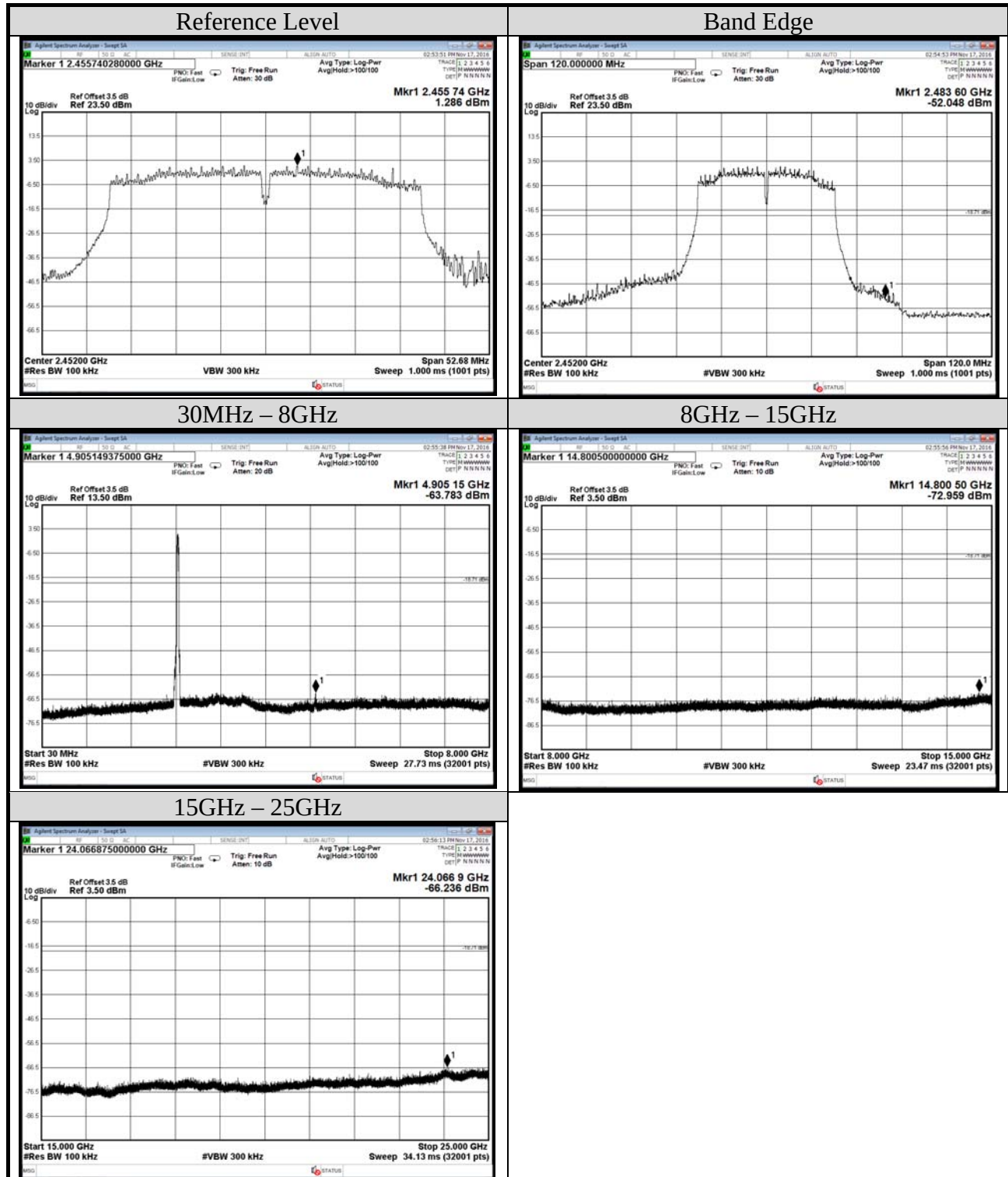
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT40	Frequency	TX 2437MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT40	Frequency	TX 2452MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



File Number: C1M1611057

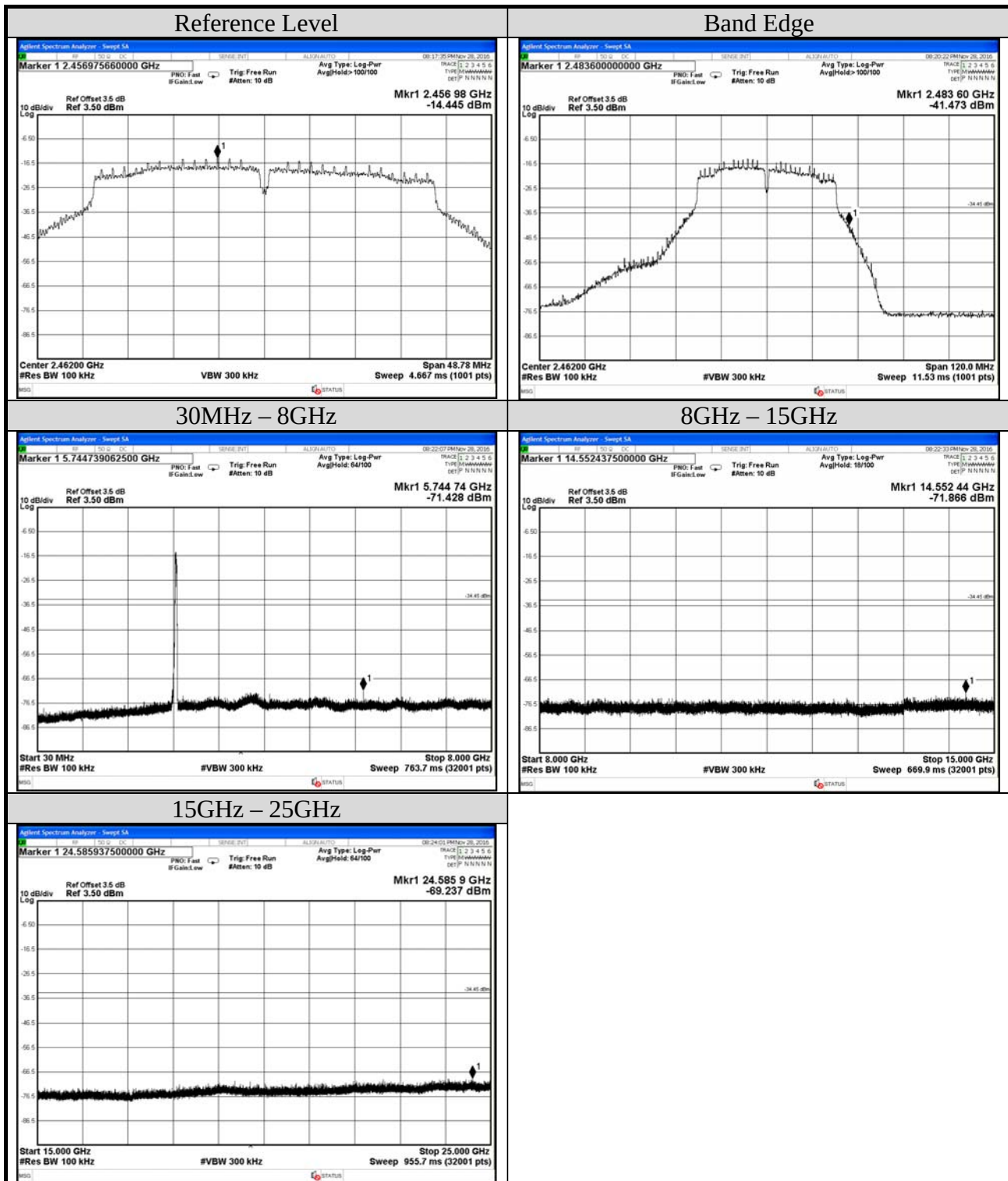
Report Number: EM-F160758

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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

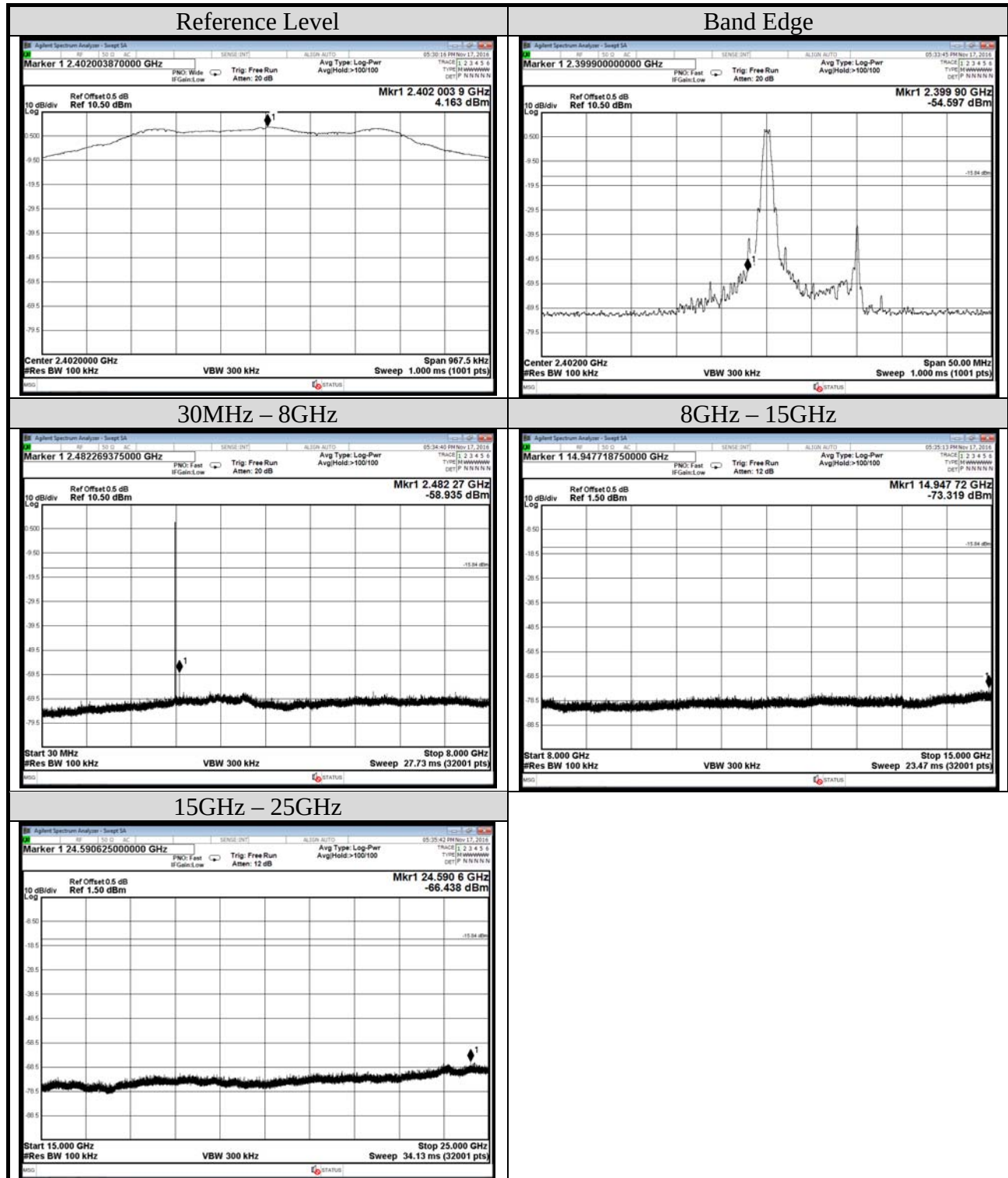
Test Date	2016/11/28	Temp./Hum.	25°C/55%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	802.11n-HT40	Frequency	TX 2462MHz
Simultaneous Factor	10 log(n) (Note: "n" is antenna number)		3



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New Taipei City244, Taiwan

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Fax: +886 2 26099303

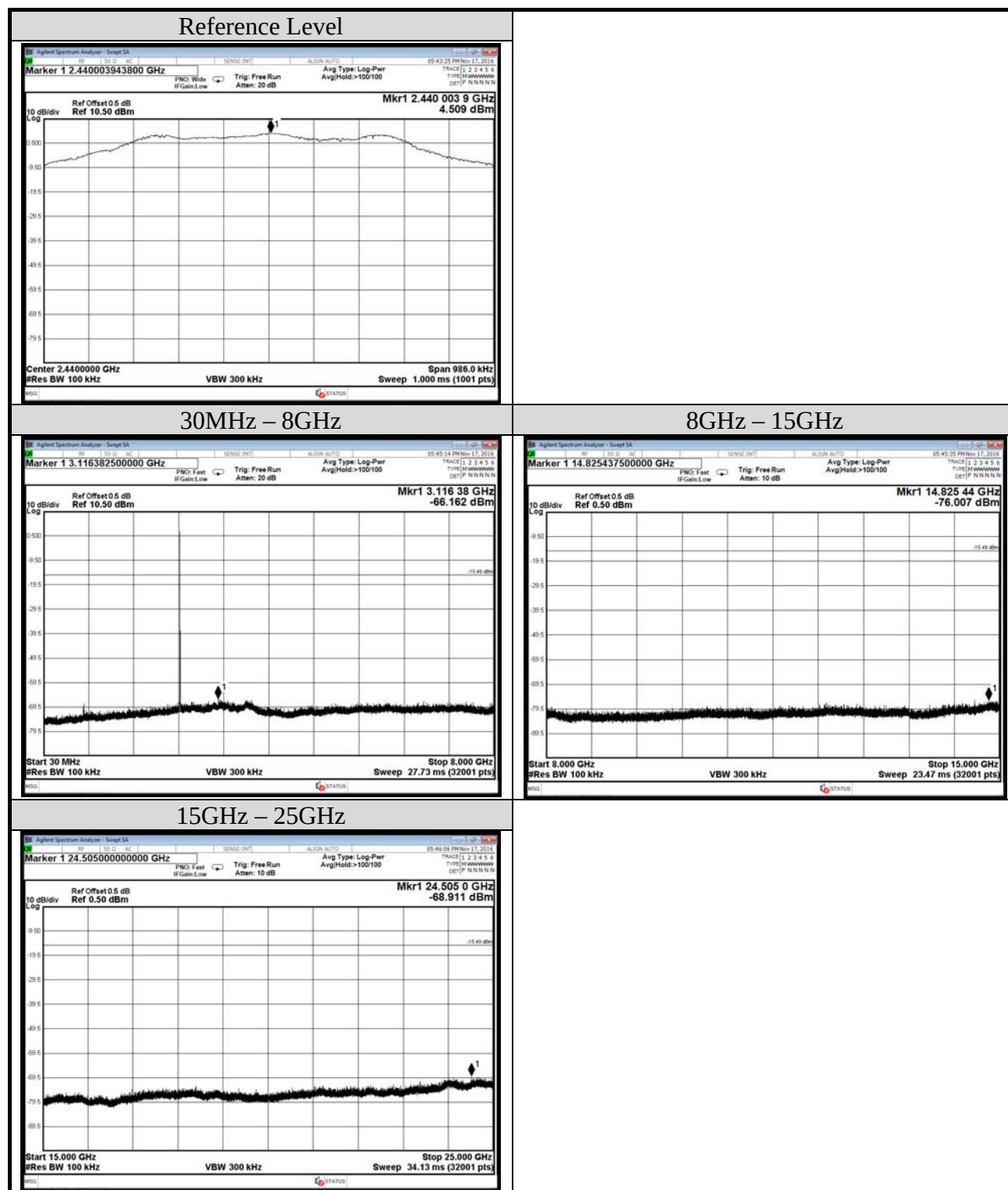
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	BLE	Frequency	TX 2402MHz
Simultaneous Factor	10 log(n) (Note: “n” is antenna number)		3



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Tel: +886 2 26099301
Fax: +886 2 26099303

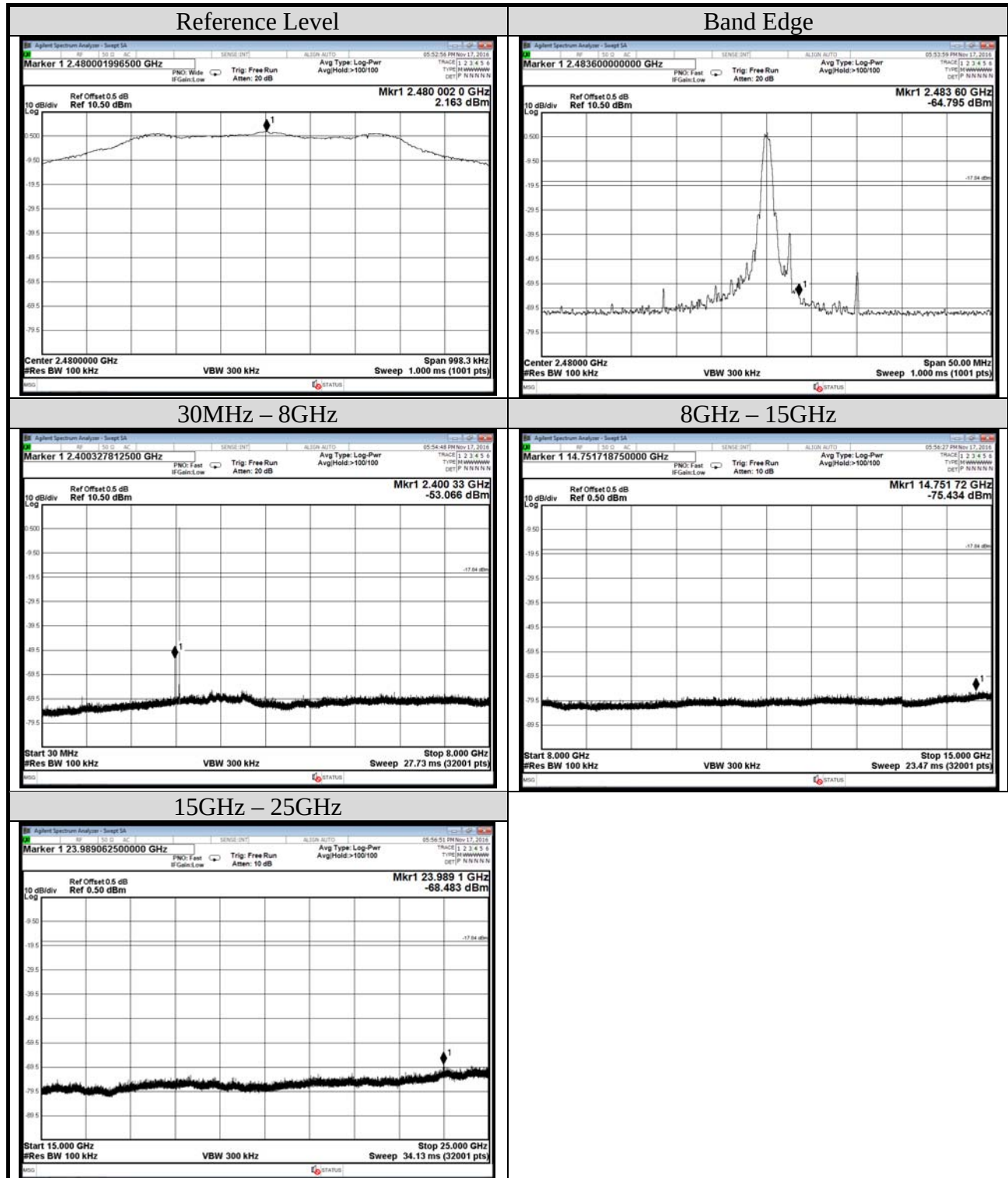
Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	BLE	Frequency	TX 2440MHz
Simultaneous Factor	10 log(n) (Note: “n” is antenna number)		0



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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

Test Date	2016/11/17	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Mode	BLE	Frequency	TX 2480MHz
Simultaneous Factor	10 log(n) (Note: “n” is antenna number)		0



A.4 POWER SPECTRAL DENSITY

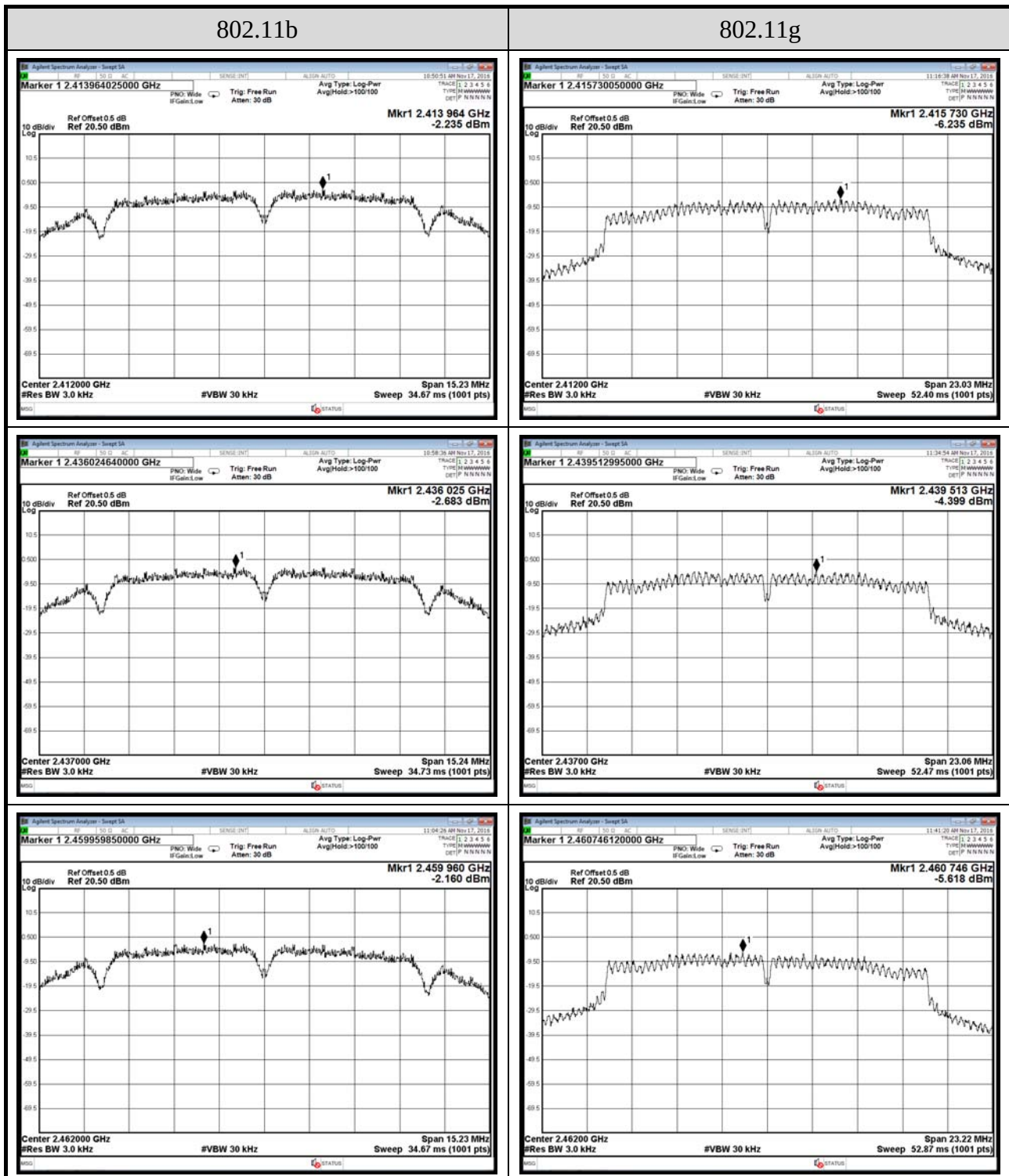
Test Date	2016/11/17 ~ 28	Temp./Hum.	25°C/58%
Cable Loss	0.5dB	Test Voltage	AC 120V, 60Hz (via AC Adapter)
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)			0

A.4.1 Power Spectral Density Result

Modulation Type	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11b	2412	-2.235	< 8 dBm/3kHz
	2437	-2.683	
	2462	-2.160	
	2472	-15.041	
802.11g	2412	-6.235	
	2437	-4.399	
	2462	-5.618	
	2472	-26.838	
802.11n-HT20	2412	-7.671	
	2437	-7.557	
	2462	-5.972	
	2472	-24.710	
802.11n-HT40	2422	-11.743	
	2437	-9.289	
	2452	-11.100	
	2462	-29.150	
BLE	2402	4.163	
	2440	4.509	
	2480	2.163	

Note: All results have been included cable loss and Simultaneous Factor.

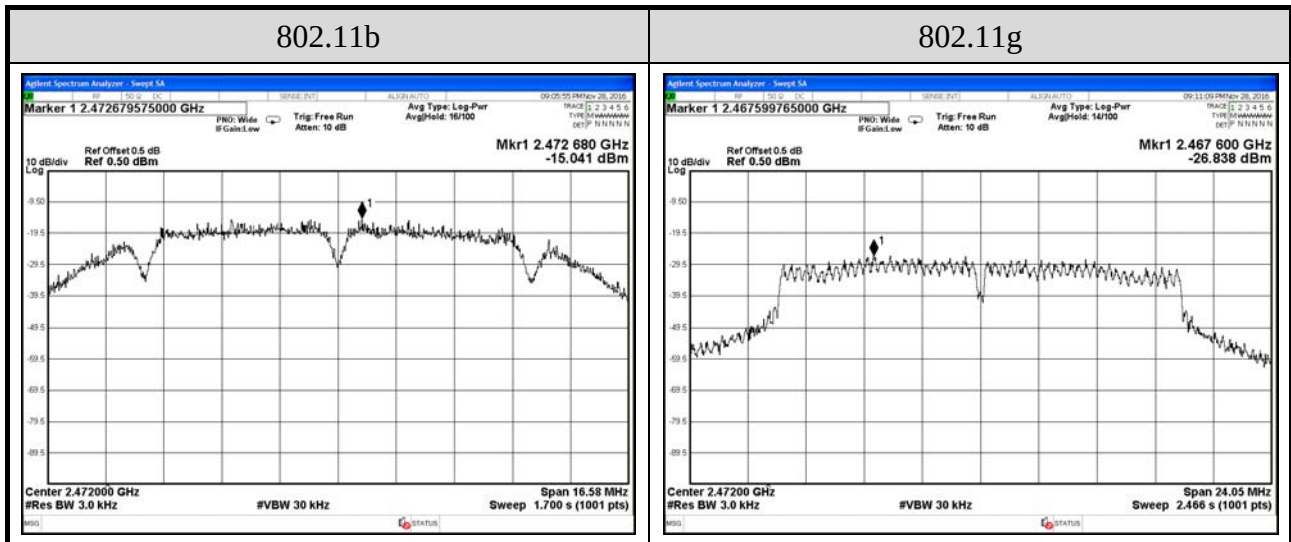
A.4.2 Measurement Plots



Note: All results have been included cable loss and Simultaneous Factor.

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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

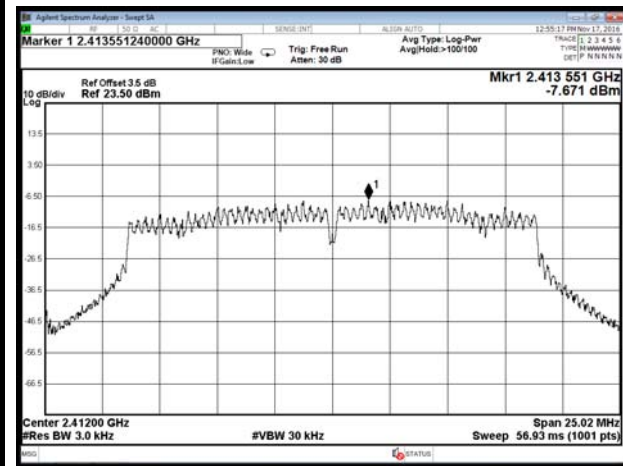


Note: All results have been included cable loss and Simultaneous Factor.

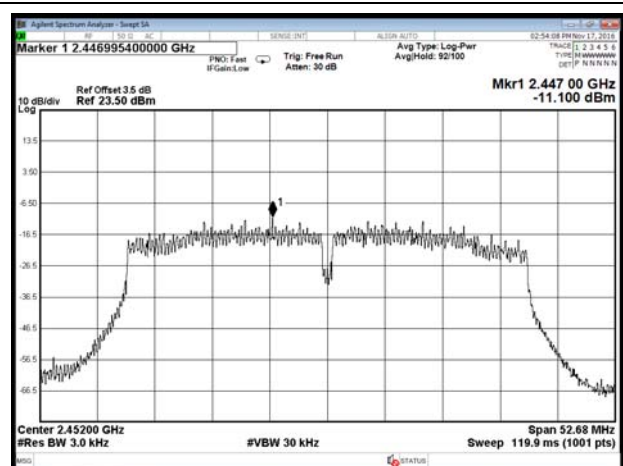
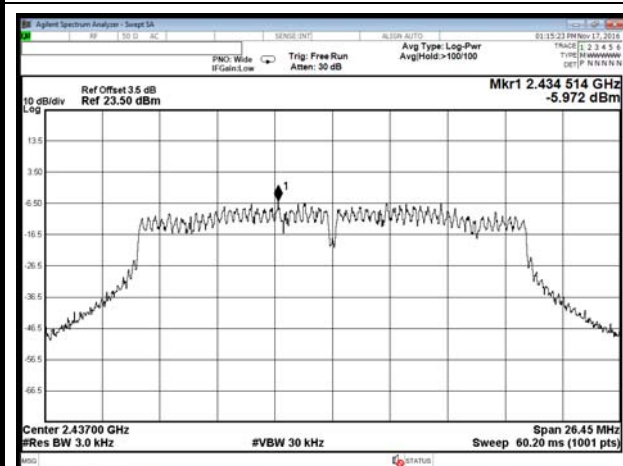
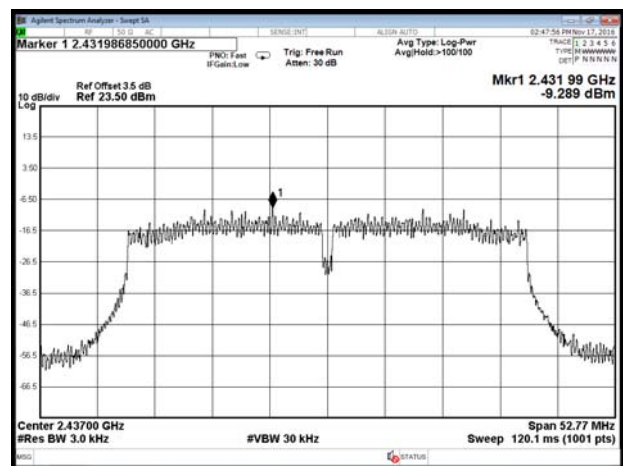
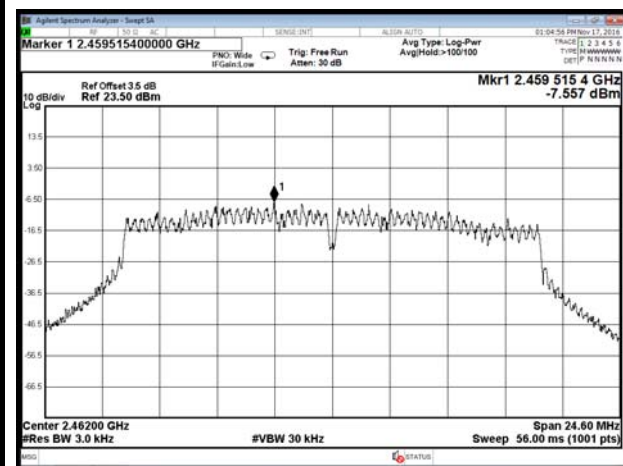
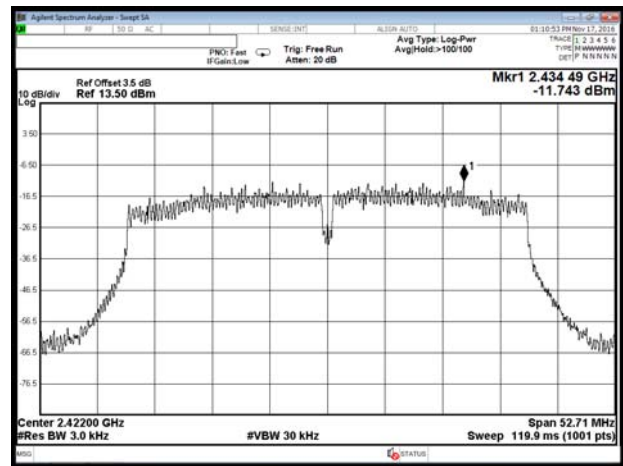
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Tel: +886 2 26099301
Fax: +886 2 26099303

802.11n-HT20



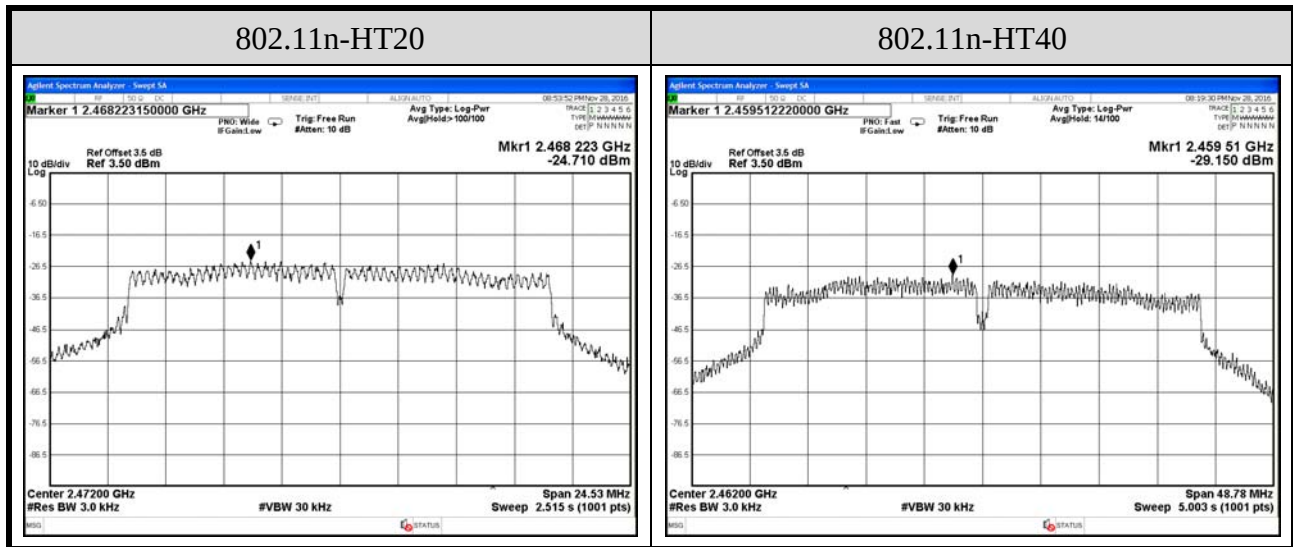
802.11n-HT40



Note: All results have been included cable loss and Simultaneous Factor.

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Fax: +886 2 26099303

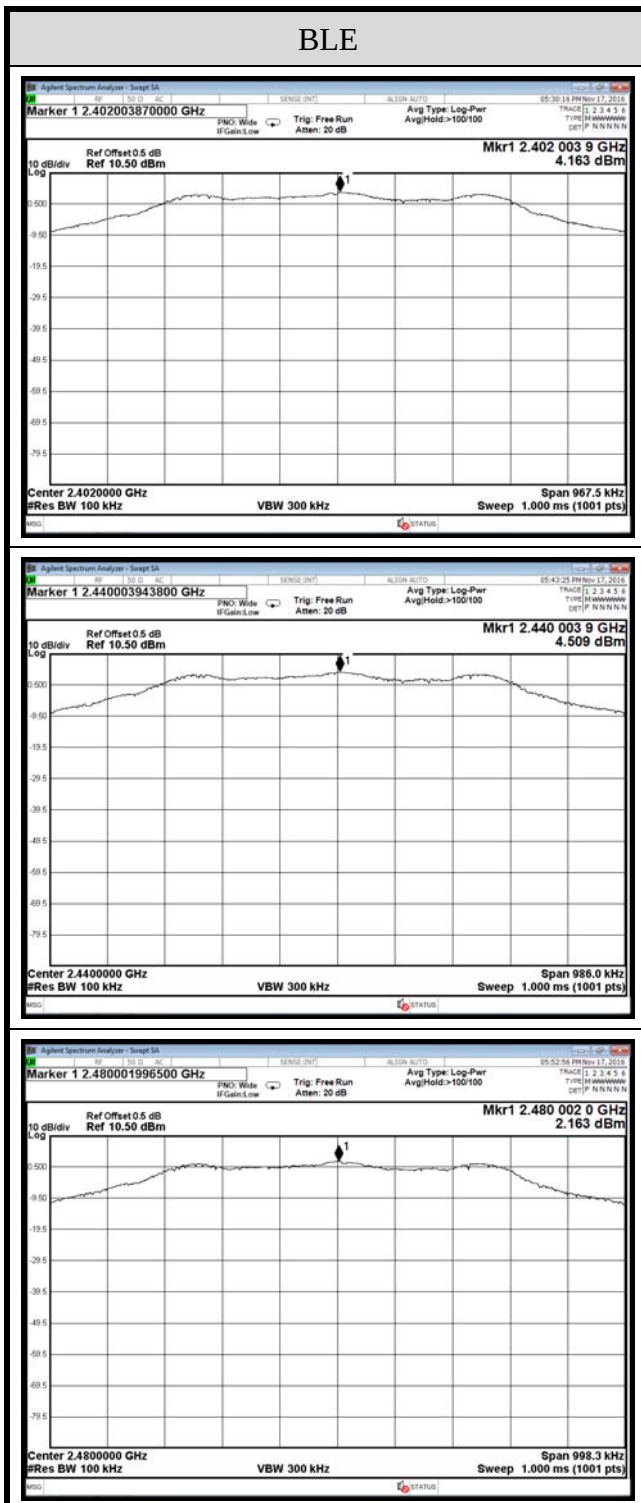


Note: All results have been included cable loss and Simultaneous Factor.

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New Taipei City244, Taiwan

Tel: +886 2 26099301
Fax: +886 2 26099303

BLE



Note: All results have been included cable loss and Simultaneous Factor.