FCC RADIO TEST REPORT

Applicant : Open Mesh, Inc.

Address 5 Centerpointe Drive, Suite 400, Lake Oswego,

Oregon, United States, 97035

Equipment : WiFi Access Point

Model No. : A60

Trade Name :

FCC ID : WT8OMA60

I HEREBY CERTIFY THAT:

The sample was received on Nov. 10, 2016 and the testing was carried out on Dec. 15, 2016 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by: Tested by:

Mark Liao / Assistant Manager Spree Yei / Engineer

Laboratory Accreditation:

Cerpass Technology Corporation Test Laboratory







Report No.: TEFI1609105

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History of this test report

Report No.	Issue Date	Description
TEFI1609105	Dec. 16, 2016	Original

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1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.4:2014

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

KDB558074

KDB662911

FCC Rule	. Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. AC Power Line Conducted Emission	Pass
15.209 15.205	. Radiated Spurious Emission	Pass
15.247(d)	. Conducted Spurious Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak and Average Output Power	Pass
15.247(e)	. Power Spectral Density	Pass

This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report.

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2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Modulation Type	DSSS, OFDM
Frequency Range	802.11b/g/n: 2412-2462MHz
Frequency Range	802.11a/an/ac: 5150-5250MHz, 5725-5850MHz
	802.11b: 1, 2, 5.5, 11Mbps
	802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
Data Rate	802.11n: MCS0 – MCS23, HT20/40
	802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	802.11ac: MCS0 – MCS9, VHT 20/40/80)
Antenna Type	PIFA Antenna
	802.11b/g/n:
	Antenna 1: 3.0 dBi
	Antenna 2: 4.6 dBi
Antenna Gain	Antenna 3: 3.3 dBi
Antenna Gam	802.11a/an/ac:
	Antenna 1: 5.1 dBi
	Antenna 2: 4.7 dBi
	Antenna 3: 4.8 dBi

2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT 20, 802.11ac VHT 20 (2412MHz~2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	*11	2462
*06	2437		

802.11n HT40 (2422MHz~2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
		07	2442
		08	2447
*03	2422	*09	2452
04	2427		
05	2432		
*06	2437		

Note: Channels remarked * are selected to perform test.

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2.3 Test Mode and Test Software

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.

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- b. The complete test system included remote workstation and EUT for RF test. The remote workstation included Notebook.
- c. An executive program,"ART2-GUI" under WIN 7 was executed to transmit and receive data via WI AN
- d. The following test modes were performed for the test:

Test Mode 1: 802.11b (1Mbps) Test Mode 2: 802.11g (6Mbps)

Test Mode 3: 802.11n HT20 (6.5Mbps) Test Mode 4: 802.11n HT40 (13.5Mbps)

For conduction test, caused "Test Mode 3" generated the worst case, it was reported as the final data.

For radiated test (below 1GHz), caused "Test Mode 3" generated the worst case, it was reported as the final data.

For radiated test (above 1GHz), caused "Test Mode 1~4" generated the worst case, they were reported as the final data.

2.4 Description of Test System

Device Manufacturer		Model No.	Description	
Remote workstation				
Notebook	DELL	Latitude E6430	Power Cable, Unshielding, 1.8m	

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2.5 General Information of Test

	Cerpass	Technology Corporation Test Laboratory		
	Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848,			
	Taiwan (R.O.C.)			
	Tel:+886	-3-3226-888		
	Fax:+88	6-3-3226-881		
	Address	: No.68-1, Shihbachongsi, Shihding Township,		
	New Taipei City 223, Taiwan, R.O.C.			
Test Site	Tel: +886-2-2663-8582			
	FCC	TW1079, TW1061, 390316, 228391, 641184		
	IC	4934E-1, 4934E-2		
	VCCI	T-2205 for Telecommunication Test		
		C-4663 for Conducted emission test		
		R-4218, R-4399 for Radiated emission test		
		G-812, G-813 for radiated disturbance above 1GHz		
Frequency Range	Conducted: from 150kHz to 30 MHz			
Investigated:	Radiatio	n: from 30 MHz to 25,000MHz		
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.			

2.6 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	Line / Neutral	±2.9076 dB
Radiated Emission	9 kHz ~ 25,000 MHz	Vertical / Horizontal	±0.948 dB
Spurious Emission (Conducted)	-	-	±4.011 dB
Maximum Peak and Average Output Power	-	-	±0.322 dB
Power Spectral Density	-	-	±0.322 dB
Bandwidth	-	-	74.224Hz

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3. Test Equipment and Ancillaries Used for Tests

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI3	100443	2016/03/28	2017/03/27
LISN	Schwarzbeck	NSLK 8127	8127-740	2016/08/30	2017/08/29
LISN	Schwarzbeck	NSLK 8127	8127-516	2016/09/06	2017/09/05
Pulse Limiter	R&S	ESH3-Z2	101934	2016/03/09	2017/03/08
Bilog Antenna	Schwarzbeck	VULB9168	369	2016/03/22	2017/03/21
Active Loop Antenna	EMCO	6507	40855	2016/05/11	2017/05/10
Horn Antenna	EMCO	3115	31601	2016/09/05	2017/09/04
Horn Anrenna	EMCO	3116	31970	2016/03/18	2017/03/17
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2016/03/16	2017/03/15
Preamplifier	EM	EM330	60660	2016/03/16	2017/03/15
Preamplifier	EMC INSTRUMENTS	EMC051845SE	980333	2016/09/13	2017/09/12
Preamplifier	Agilent	8449B	3008A01954	2016/03/04	2017/03/03
Preamplifier	MITEQ	AMF-7D-001010 0-30-10P	1860212	2016/03/16	2017/03/15
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2016/11/04	2017/11/03
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2016/03/18	2017/03/17
Spectrum Analyzer	R&S	FSP40	100219	2016/09/01	2017/08/31
BLUETOOTH TESTER	R&S	СВТ	101133	2016/03/18	2017/03/17
Attenuator	KEYSIGHT	8491B	MY39250703	2016/03/07	2017/03/06
Rotary Attenuator	Agilent	8494B	MY42154466	2016/03/08	2017/03/07
Rotary Attenuator	Agilent	8495B	MY42146680	2016/03/08	2017/03/07
Temp & Humi chamber	T-MACHINE	TMJ-9712	T-12-040111	2016/09/05	2017/09/04
Series Power Meter	Anritsu	ML2495A	1224005	2016/03/03	2017/03/02
Power Sensor	Anritsu	MA2411B	1207295	2016/03/03	2017/03/02
Cable	HUBER SUHNER	SUCOFLEX 102	28422/2	2016/03/15	2017/03/14
Cable	HUBER SUHNER	SUCOFLEX 102	28418/2	2016/03/16	2017/03/15
Cable	HUBER SUHNER	SUCOFLEX 102	28417/2	2016/03/04	2017/03/03
Software	Farad	Ez-EMC	ver.ct3a1	N/A	N/A
Software	AUDIX	E3	V8.2014-8-6	N/A	N/A
Software	Keysight	N7607B Signal Studio	v2.0.0.1	N/A	N/A
Software	Keysight	Inservice MonitorUtility	N/A	N/A	N/A

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4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

Antenna Type	Antenna Gain	
	Antenna 1: 3.0 dBi	
PIFA Antenna	Antenna 2: 4.6 dBi	
	Antenna 3: 3.3 dBi	

For Power directional gain= G_{ant} = 4.6 dBi For PSD directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20}$)²/NANT] = 8.43 (dBi)

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5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz. according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB µ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 - 5.0	56	46
5.0 – 30.0	60	50

^{*}Decreases with the logarithm of the frequency.

5.2 Test Procedures

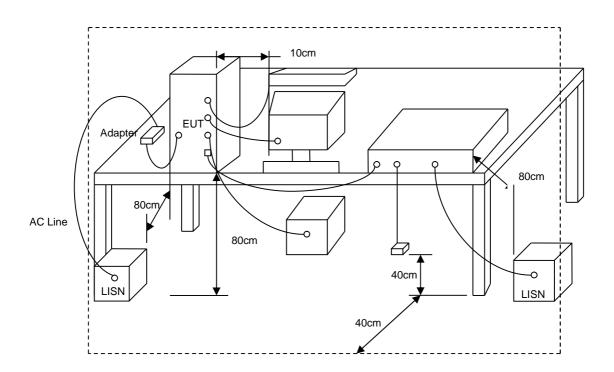
- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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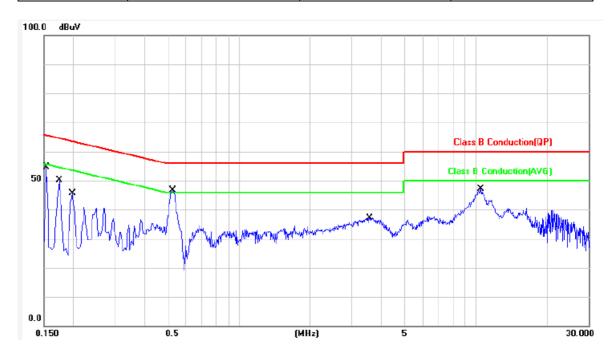
5.3 Typical Test Setup



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5.4 Test Result and Data

Power	:	PoE	Pol/Phase :	:	LINE
Test Mode	:	Mode 3	Temperature :	:	20 °C
Test date	:	Dec. 15, 2016	Humidity :	:	52 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	9.98	42.03	52.01	65.78	-13.77	QP	Р
2	0.1539	9.98	23.95	33.93	55.78	-21.85	AVG	Р
3	0.1740	9.98	37.96	47.94	64.76	-16.82	QP	Р
4	0.1740	9.98	20.00	29.98	54.76	-24.78	AVG	Р
5	0.1980	9.97	33.44	43.41	63.69	-20.28	QP	Р
6	0.1980	9.97	15.99	25.96	53.69	-27.73	AVG	Р
7	0.5260	9.98	35.52	45.50	56.00	-10.50	QP	Р
8	0.5260	9.98	30.92	40.90	46.00	-5.10	AVG	Р
9	3.5660	10.14	24.14	34.28	56.00	-21.72	QP	Р
10	3.5660	10.14	19.54	29.68	46.00	-16.32	AVG	Р
11	10.5420	10.28	32.62	42.90	60.00	-17.10	QP	Р
12	10.5420	10.28	27.64	37.92	50.00	-12.08	AVG	Р

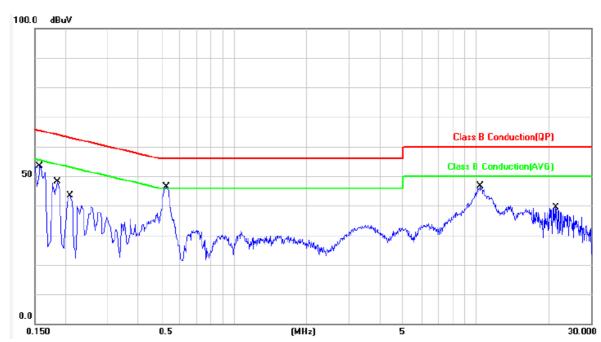
Note: Level = Reading + Factor Margin = Level - Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator

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Power	ower : PoE		Pol/Phase :	NEUTRAL
Test Mode		Mode 3	Temperature :	20 °C
Test date		Dec. 15, 2016	Humidity :	52 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	9.98	40.84	50.82	65.56	-14.74	QP	Р
2	0.1580	9.98	22.49	32.47	55.56	-23.09	AVG	Р
3	0.1860	9.98	35.67	45.65	64.21	-18.56	QP	Р
4	0.1860	9.98	18.46	28.44	54.21	-25.77	AVG	Р
5	0.2100	9.98	31.47	41.45	63.20	-21.75	QP	Р
6	0.2100	9.98	16.13	26.11	53.20	-27.09	AVG	Р
7	0.5260	9.95	35.29	45.24	56.00	-10.76	QP	Р
8	0.5260	9.95	30.69	40.64	46.00	-5.36	AVG	Р
9	10.4860	10.34	31.70	42.04	60.00	-17.96	QP	Р
10	10.4860	10.34	26.73	37.07	50.00	-12.93	AVG	Р
11	21.5980	10.62	27.15	37.77	60.00	-22.23	QP	Р
12	21.5980	10.62	25.75	36.37	50.00	-13.63	AVG	Р

Note: Level = Reading + Factor Margin = Level – Limit

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss+ Attenuator

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6. Test of Radiated Spurious Emission

6.1 Test Limit

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. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

6.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

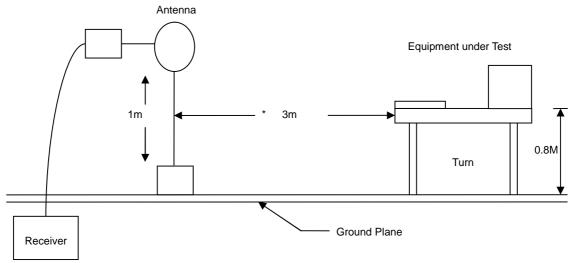
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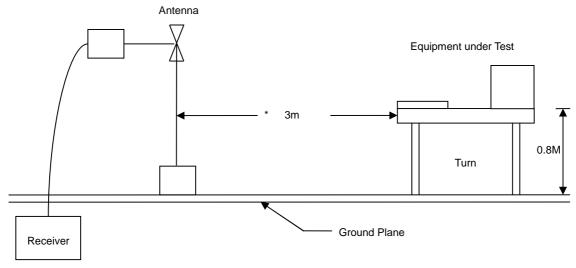


6.3 Typical Test Setup

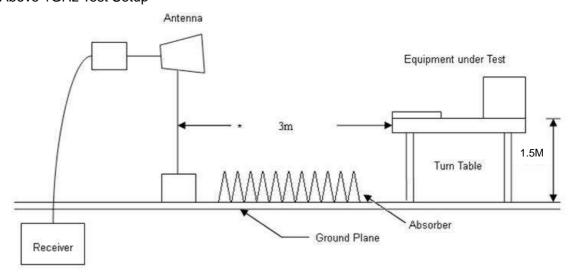
Below 30MHz test setup



30MHz-1GHz Test Setup



Above 1GHz Test Setup



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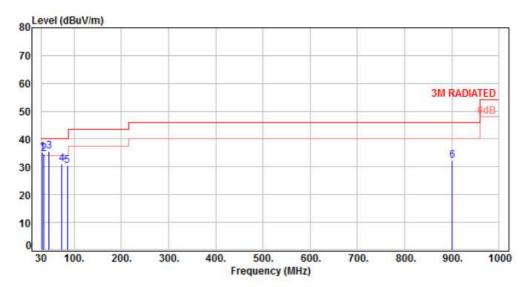


6.4 Test Result and Data (9KHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz ~ 1GHz)

Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 3	Temperature :	23 °C
Test Date	:	Dec. 13, 2016	Humidity :	66 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	31.94	-10.66	45.95	35.29	40.00	-4.71	QP	100	288	P
2	35.82	-10.47	45.28	34.81	40.00	-5.19	QP	100	269	P
3	46.49	-9.75	45.21	35.46	40.00	-4.54	QP	129	189	P
4	73.65	-13.35	44.29	30.94	40.00	-9.06	QP	100	266	P
5	85.29	-15.60	45.98	30.38	40.00	-9.62	QP	100	267	P
6	900.09	2.13	30.09	32.22	46.00	-13.78	QP	164	196	P

Note: Level=Reading+Factor Margin=Level-Limit

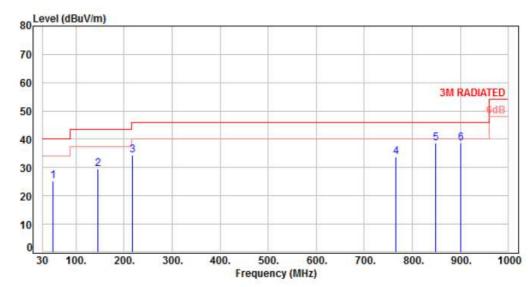
Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode		Mode 3	Temperature :	23 °C
Test Date		Dec. 13, 2016	Humidity :	66 %



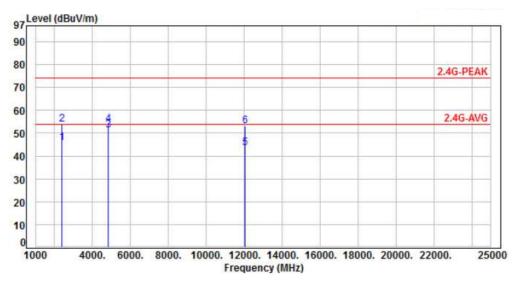
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	51.34	-9.83	35.01	25.18	40.00	-14.82	Peak	400	0	Р
2	145.43	-10.18	39.60	29.42	43.50	-14.08	Peak	400	0	Р
3	218.18	-12.68	47.03	34.35	46.00	-11.65	Peak	400	0	Р
4	766.23	0.53	33.37	33.90	46.00	-12.10	Peak	400	0	P
5	848.68	1.56	37.08	38.64	46.00	-7.36	Peak	400	0	P
6	900.09	2.13	36.58	38.71	46.00	-7.29	Peak	400	0	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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6.6 Test Result and Data (1GHz ~ 25GHz)

Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 1, CH01	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	61.33	45.58	54.00	-8.42	Average	100	279	Р
2	2390.00	-15.75	69.53	53.78	74.00	-20.22	Peak	100	279	P
3	4824.00	-7.58	58.92	51.34	54.00	-2.66	Average	318	323	P
4	4824.00	-7.58	61.52	53.94	74.00	-20.06	Peak	318	323	P
5	12060.00	2.28	41.16	43.44	54.00	-10.56	Average	400	339	P
6	12060.00	2.28	51.00	53.28	74.00	-20.72	Peak	400	339	P

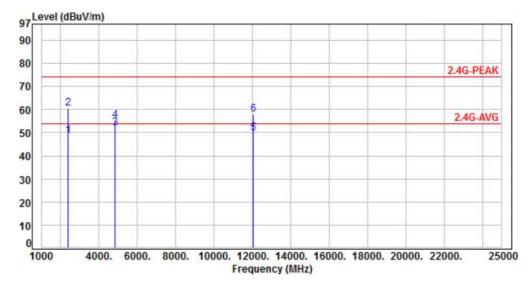
Note: Level=Reading+Factor Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

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FCC ID. : WT8OMA60

Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 1, CH01	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



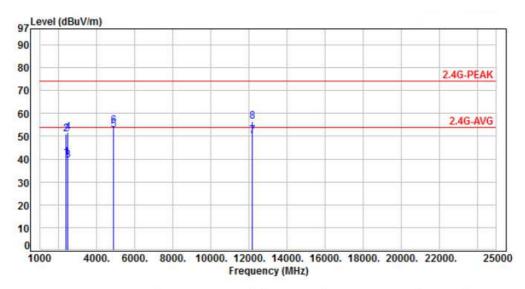
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	64.30	48.55	54.00	-5.45	Average	336	35	Р
2	2390.00	-15.75	76.32	60.57	74.00	-13.43	Peak	336	35	P
3	4824.00	-7.58	59.72	52.14	54.00	-1.86	Average	135	59	P
4	4824.00	-7.58	62.77	55.19	74.00	-18.81	Peak	135	59	P
5	12060.00	2.28	47.66	49.94	54.00	-4.06	Average	100	292	P
6	12060.00	2.28	55.54	57.82	74.00	-16.18	Peak	100	292	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode		Mode 1, CH06	Temperature :	25 °C
Test Date		Nov. 10, 2016	Humidity :	63 %



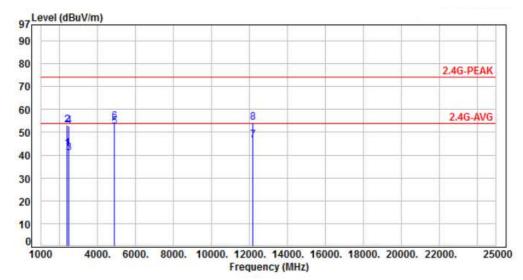
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	56.38	40.63	54.00	-13.37	Average	400	346	Р
2	2390.00	-15.75	66.47	50.72	74.00	-23.28	Peak	400	346	P
3	2483.50	-15.48	54.94	39.46	54.00	-14.54	Average	400	346	Р
4	2483.50	-15.48	67.21	51.73	74.00	-22.27	Peak	400	346	P
5	4874.00	-7.39	60.08	52.69	54.00	-1.31	Average	399	313	P
6	4874.00	-7.39	62.03	54.64	74.00	-19.36	Peak	399	313	P
7	12185.00	2.37	47.89	50.26	54.00	-3.74	Average	271	344	P
8	12185.00	2.37	54.02	56.39	74.00	-17.61	Peak	271	344	P

Factor=Antenna Factor + cable loss - Amplifier Factor

Issued date : Dec. 16, 2016 Page No. : 22 of 87 FCC ID. : WT8OMA60



Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 1, CH06	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %

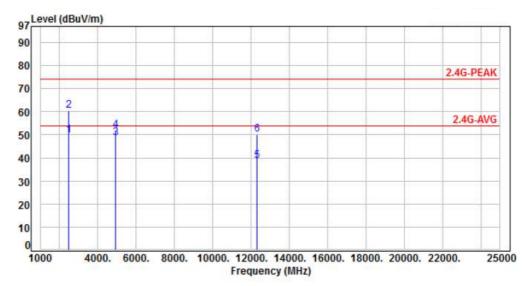


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	58.64	42.89	54.00	-11.11	Average	204	337	P
2	2390.00	-15.75	69.04	53.29	74.00	-20.71	Peak	204	337	P
3	2483.50	-15.48	56.50	41.02	54.00	-12.98	Average	204	337	P
4	2483.50	-15.48	68.38	52.90	74.00	-21.10	Peak	204	337	P
5	4874.00	-7.39	59.77	52.38	54.00	-1.62	Average	188	301	P
6	4874.00	-7.39	62.04	54.65	74.00	-19.35	Peak	188	301	P
7	12185.00	2.37	43.97	46.34	54.00	-7.66	Average	100	348	P
8	12185.00	2.37	51.87	54.24	74.00	-19.76	Peak	100	348	P
8	12185.00	2.3/	51.8/	54.24	74.00	-19.76	Peak	100	34	0

Factor=Antenna Factor + cable loss - Amplifier Factor

Issued date : Dec. 16, 2016
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FCC ID. : WT8OMA60

Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 1, CH11	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



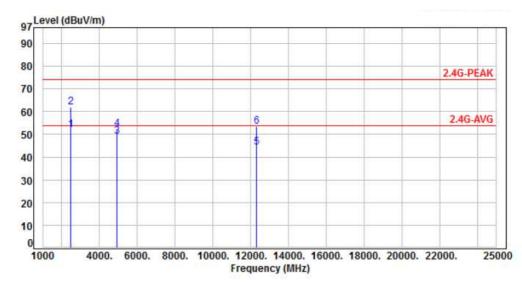
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	65.12	49.64	54.00	-4.36	Average	368	302	Р
2	2483.50	-15.48	75.92	60.44	74.00	-13.56	Peak	368	302	P
3	4924.00	-7.19	55.87	48.68	54.00	-5.32	Average	386	323	P
4	4924.00	-7.19	59.22	52.03	74.00	-21.97	Peak	386	323	P
5	12310.00	2.46	36.37	38.83	54.00	-15.17	Average	400	299	P
6	12310.00	2.46	47.78	50.24	74.00	-23.76	Peak	400	299	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 1, CH11	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
- 1	2483.50	-15.48	67.49	52.01	54.00	-1.99	Average	133	286	Р
2	2483.50	-15.48	77.33	61.85	74.00	-12.15	Peak	133	286	P
3	4924.00	-7.19	56.30	49.11	54.00	-4.89	Average	7.7.0	299	P
4	4924.00	-7.19	59.65	52.46	74.00	-21.54	Peak	210	299	P
5	12310.00	2.46	41.81	44.27	54.00	-9.73	Average	100	283	P
6	12310.00	2.46	51.17	53.63	74.00	-20.37	Peak	100	283	P

Note: Level=Reading+Factor

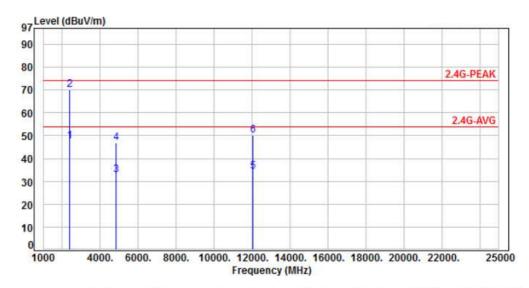
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor

Cerpass Technology Corp.

Issued date : Dec. 16, 2016
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FCC ID. : WT8OMA60

Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 2, CH01	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



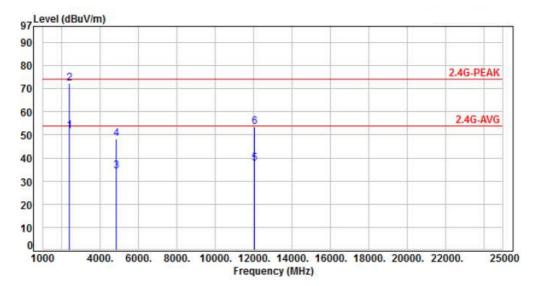
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	63.33	47.58	54.00	-6.42	Average	351	296	Р
2	2390.00	-15.75	85.75	70.00	74.00	-4.00	Peak	351	296	P
3	4824.00	-7.58	40.25	32.67	54.00	-21.33	Average	312	298	P
4	4824.00	-7.58	54.36	46.78	74.00	-27.22	Peak	312	298	P
5	12060.00	2.28	32.05	34.33	54.00	-19.67	Average	324	337	P
6	12060.00	2.28	47.98	50.26	74.00	-23.74	Peak	324	337	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 2, CH01	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



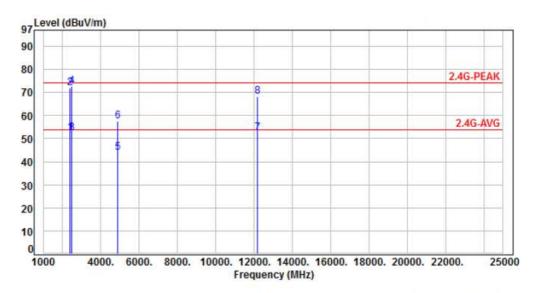
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	67.36	51.61	54.00	-2.39	Average	212	284	Р
2	2390.00	-15.75	88.22	72.47	74.00	-1.53	Peak	212	284	P
3	4824.00	-7.58	41.73	34.15	54.00	-19.85	Average	219	312	P
4	4824.00	-7.58	55.82	48.24	74.00	-25.76	Peak	219	312	P
5	12060.00	2.28	35.50	37.78	54.00	-16.22	Average	179	242	P
6	12060.00	2.28	51.32	53.60	74.00	-20.40	Peak	179	242	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 2, CH06	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



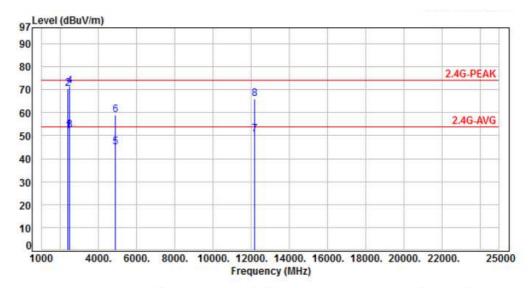
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	68.25	52.50	54.00	-1.50	Average	379	357	Р
2		-15.75	87.55	71.80	74.00	-2.20	Peak	379	357	P
3		-15.48	67.75	52.27	54.00	-1.73	Average		320	P
4	2483.50	-15.48	87.98	72.50	74.00	-1.50	Peak	382	320	P
5	4874.00	-7.39	51.44	44.05	54.00	-9.95	Average	166	271	P
6	4874.00	-7.39	65.10	57.71	74.00	-16.29	Peak	166	271	P
7	12185.00	2.37	50.08	52.45	54.00	-1.55	Average	199	343	P
8	12185.00	2.37	65.73	68.10	74.00	-5.90	Peak	199	343	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 2, CH06	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %

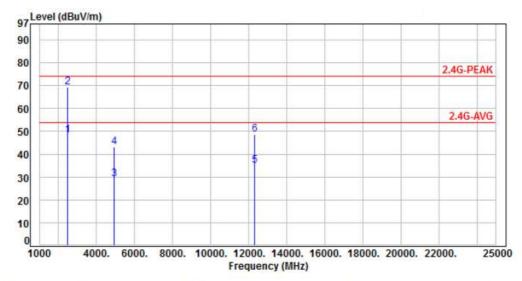


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	67.79	52.04	54.00	-1.96	Average	228	312	Р
2	2390.00	-15.75	86.17	70.42	74.00	-3.58	Peak	228	312	P
3	2483.50	-15.48	67.68	52.20	54.00	-1.80	Average	321	277	P
4	2483.50	-15.48	87.21	71.73	74.00	-2.27	Peak	321	277	P
5	4874.00	-7.39	52.37	44.98	54.00	-9.02	Average	100	301	P
6	4874.00	-7.39	66.36	58.97	74.00	-15.03	Peak	100	301	P
7	12185.00	2.37	48.04	50.41	54.00	-3.59	Average	100	290	P
8	12185.00	2,37	63.69	66.06	74.00	-7.94	Peak	100	290	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2, CH11	Temperature	:	25 °C
Test Date	:	Nov. 10, 2016	Humidity	:	63 %



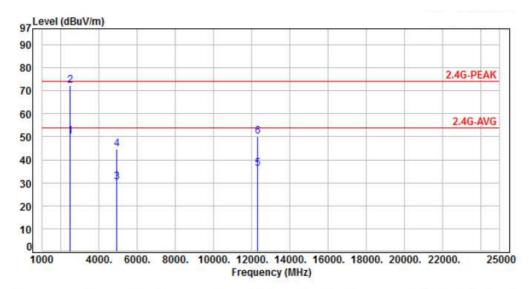
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	63.67	48.19	54.00	-5.81	Average	395	3	Р
2	2483.50	-15.48	84.95	69.47	74.00	-4.53	Peak	395	3	P
3	4924.00	-7.19	36.31	29.12	54.00	-24.88	Average	335	314	P
4	4924.00	-7.19	50.28	43.09	74.00	-30.91	Peak	335	314	P
5	12310.00	2.46	32.47	34.93	54.00	-19.07	Average	400	356	P
6	12310.00	2.46	46.21	48.67	74.00	-25.33	Peak	400	356	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 2, CH11	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %

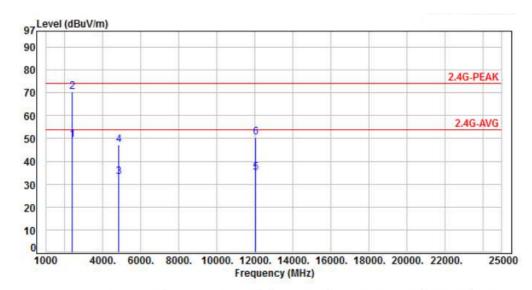


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	65.56	50.08	54.00	-3.92	Average	127	289	Р
2	100000000000000000000000000000000000000	-15.48	87.67	72.19	74.00	-1.81	Peak	127	289	Р
3	4924.00	-7.19	37.60	30.41	54.00	-23.59	Average	141	317	P
4	4924.00	-7.19	51.78	44.59	74.00	-29.41	Peak	141	317	P
5	12310.00	2.46	33.66	36.12	54.00	-17.88	Average	100	332	P
6	12310.00	2.46	47.64	50.10	74.00	-23,90	Peak	100	332	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 3, CH01	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %

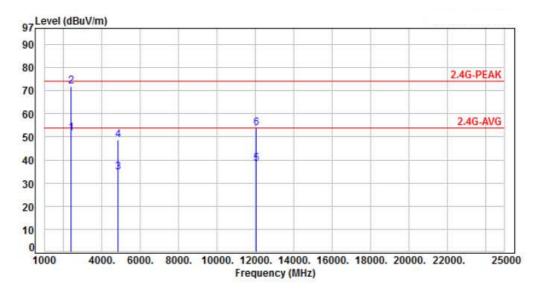


Р
P
P
P
P
P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	 PoE	Pol/Phase :	HORIZONTAL
Test Mode	 Mode 3, CH01	Temperature :	25 °C
Test Date	 Nov. 10, 2016	Humidity :	63 %

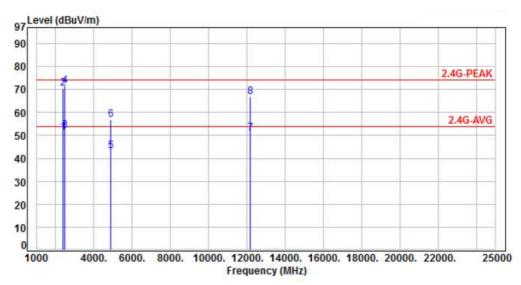


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
	2200 00	15.75	67.22	F1 F0	F4 00	2 42	*	251	207	Р
1	2390.00	-15.75 -15.75	67.33 87.76	51.58 72.01	54.00 74.00	-2.42	Average Peak	251 251	283 283	P
-		6 T T T T T T T T T T T T T T T T T T T								7.5
3	4824.00	-7.58	42.41	34.83	54.00	-19.17	Average		345	P
4	4824.00	-7.58	56.24	48.66	74.00	-25.34	Peak	289	345	P
5	12060.00	2.28	36.11	38.39	54.00	-15.61	Average	183	256	P
6	12060.00	2.28	51.72	54.00	74.00	-20.00	Peak	183	256	P

Factor=Antenna Factor + cable loss - Amplifier Factor

Issued date : Dec. 16, 2016
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FCC ID. : WT8OMA60

Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 3, CH06	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



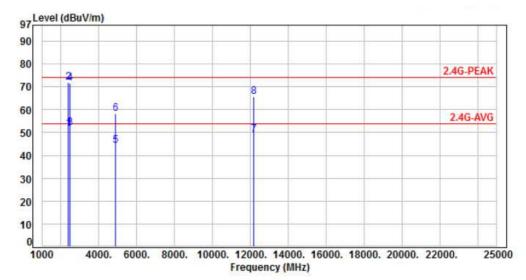
No.	Frequency (MHz)			Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	66.87	51.12	54.00	-2.88	Average	400	328	Р
2	2390.00	-15.75	86.11	70.36	74.00	-3.64	Peak	400	328	P
3	2483.50	-15.48	67.32	51.84	54.00	-2.16	Average	252	308	P
4	2483.50	-15.48	87.01	71.53	74.00	-2.47	Peak	252	308	P
5	4874.00	-7.39	50.57	43.18	54.00	-10.82	Average	172	285	P
6	4874.00	-7.39	64.30	56.91	74.00	-17.09	Peak	172	285	P
7	12185.00	2.37	48.63	51.00	54.00	-3.00	Average	380	347	P
8	12185.00	2.37	64.53	66.90	74.00	-7.10	Peak	380	347	P

Factor=Antenna Factor + cable loss - Amplifier Factor

Issued date : Dec. 16, 2016
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FCC ID. : WT8OMA60



Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 3, CH06	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %

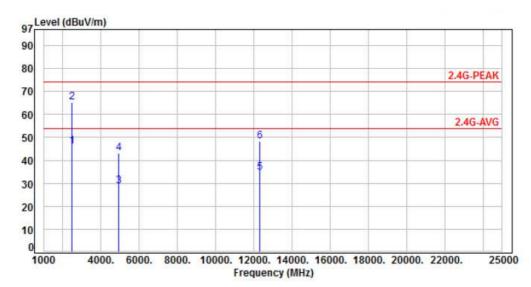


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	67.34	51.59	54.00	-2.41	Average	225	316	P
2	2390.00	-15.75	87.77	72.02	74.00	-1.98	Peak	225	316	P
3	2483.50	-15.48	67.59	52.11	54.00	-1.89	Average	223	258	P
4	2483.50	-15.48	86.92	71.44	74.00	-2.56	Peak	223	258	P
5	4874.00	-7.39	51.49	44.10	54.00	-9.90	Average	112	298	P
6	4874.00	-7.39	65.82	58.43	74.00	-15.57	Peak	112	298	P
7	12185.00	2.37	46.73	49.10	54.00	-4.90	Average	335	294	P
8	12185.00	2.37	63.27	65.64	74.00	-8.36	Peak	335	294	P

Factor=Antenna Factor + cable loss - Amplifier Factor

Issued date : Dec. 16, 2016
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FCC ID. : WT8OMA60

Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 3, CH11	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15,48	61.48	46.00	54.00	-8.00	Average	212	278	P
2	2483.50	-15.48	80.63	65.15	74.00	-8.85	Peak	212	278	P
3	4924.00	-7.19	36.12	28.93	54.00	-25.07	Average	331	289	P
4	4924.00	-7.19	50.16	42.97	74.00	-31.03	Peak	331	289	P
5	12310.00	2.46	32.28	34.74	54.00	-19.26	Average	366	303	P
6	12310.00	2.46	45.89	48.35	74.00	-25.65	Peak	366	303	P

Factor=Antenna Factor + cable loss - Amplifier Factor

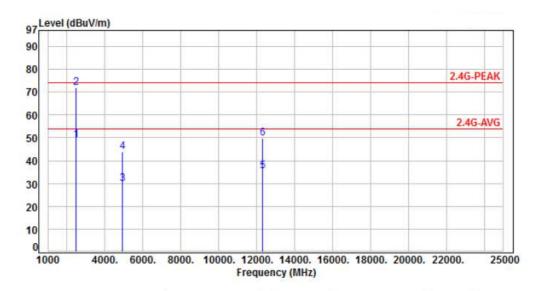
Issued date : Dec. 16, 2016
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Test Date

Nov. 10, 2016

Ī	Power	:	PoE	Pol/Phase	:	HORIZONTAL
ſ	Test Mode	:	Mode 3, CH11	Temperature	:	25 °C

Humidity



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	64.60	49.12	54.00	-4.88	Average	172	281	Р
2	2483.50	-15.48	87.57	72.09	74.00	-1.91	Peak	172	281	P
3	4924.00	-7.19	37.13	29.94	54.00	-24.06	Average	102	298	P
4	4924.00	-7.19	51.26	44.07	74.00	-29.93	Peak	102	298	P
5	12310.00	2.46	32.87	35.33	54.00	-18.67	Average	124	271	P
6	12310.00	2.46	47.18	49.64	74.00	-24.36	Peak	124	271	P

Note: Level=Reading+Factor Margin=Level-Limit

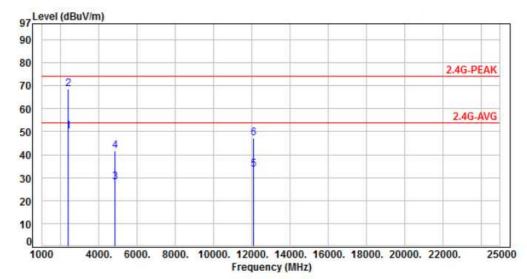
Factor=Antenna Factor + cable loss - Amplifier Factor

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Report No.: TEFI1609105

63 %

Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 4, CH03	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



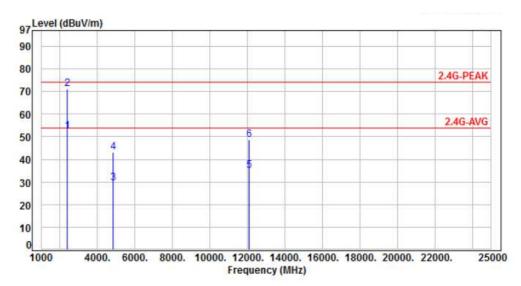
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	65.79	50.04	54.00	-3.96	Average	302	324	Р
2	2390.00	-15.75	84.19	68.44	74.00	-5.56	Peak	302	324	P
3	4844.00	-7.50	35.65	28.15	54.00	-25.85	Average	312	298	P
4	4844.00	-7.50	49.17	41.67	74.00	-32.33	Peak	312	298	P
5	12110.00	2.32	31.26	33.58	54.00	-20.42	Average	284	311	P
6	12110.00	2.32	44.97	47.29	74.00	-26.71	Peak	284	311	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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0	
	CERPASS TECHNOLOGY C

Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 4, CH03	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %

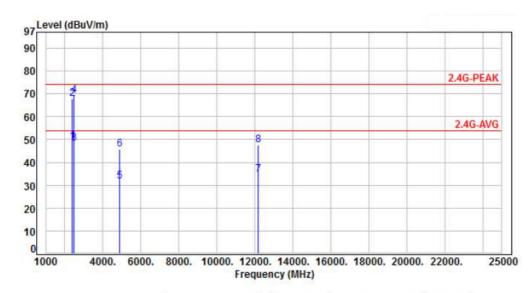


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	68.24	52.49	54.00	-1.51	Average	166	292	Р
2	2390.00	-15.75	86.76	71.01	74.00	-2.99	Peak	166	292	P
3	4844.00	-7.50	37.13	29.63	54.00	-24.37	Average	215	49	P
4	4844.00	-7.50	50.63	43.13	74.00	-30.87	Peak	215	49	P
5	12110.00	2.32	32.71	35.03	54.00	-18.97	Average	134	185	Р
6	12110.00	2.32	46.52	48.84	74.00	-25.16	Peak	134	185	P

Factor=Antenna Factor + cable loss - Amplifier Factor

Issued date : Dec. 16, 2016 Page No. : 39 of 87 FCC ID. : WT8OMA60

Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 4, CH06	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



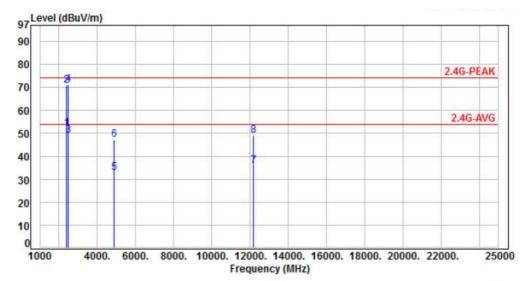
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-15.75	64.88	49.13	54.00	-4.87	Average	365	300	Р
2	2390.00	-15.75	83.59	67.84	74.00	-6.16	Peak	365	300	Р
3	2483.50	-15.48	63.88	48.40	54.00	-5.60	Average	307	299	P
4	2483.50	-15.48	84.91	69.43	74.00	-4.57	Peak	307	299	P
5	4874.00	-7.39	39.19	31.80	54.00	-22.20	Average	312	335	P
6	4874.00	-7.39	53.25	45.86	74.00	-28.14	Peak	312	335	P
7	12185.00	2.37	32.36	34.73	54.00	-19.27	Average	342	356	P
8	12185.00	2.37	45.28	47.65	74.00	-26.35	Peak	342	356	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 4, CH06	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %

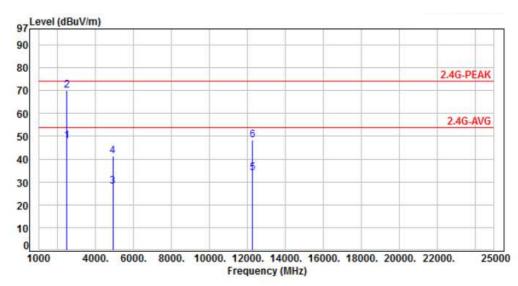


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F	
1	2390.00	-15.75	67.82	52.07	54.00	-1.93	Average	399	39	Р	
2	2390.00	-15.75	86.62	70.87	74.00	-3.13	Peak	399	39	P	
3	2483.50	-15.48	64.47	48.99	54.00	-5.01	Average	399	326	P	
4	2483.50	-15.48	86.69	71.21	74.00	-2.79	Peak	399	326	P	
5	4874.00	-7.39	40.21	32.82	54.00	-21.18	Average	100	308	P	
6	4874.00	-7.39	54.53	47.14	74.00	-26.86	Peak	100	308	P	
7	12185.00	2.37	33.52	35.89	54.00	-18.11	Average	142	318	P	
8	12185.00	2.37	46.54	48.91	74.00	-25.09	Peak	142	318	P	

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	VERTICAL
Test Mode	:	Mode 4, CH09	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



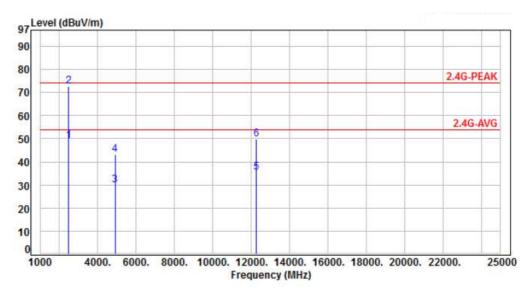
3.50 -15.48	63.27	47.79	54.00	-6.21	Average	383	294	Р
3.50 -15.48	85.47	69.99	74.00	-4.01	Peak	383	294	P
4.00 -7.26	35.43	28.17	54.00	-25.83	Average	253	282	P
4.00 -7.26	48.74	41.48	74.00	-32.52	Peak	253	282	P
0.00 2.43	31.34	33.77	54.00	-20.23	Average	324	315	P
0.00 2.43	45.89	48.32	74.00	-25.68	Peak	324	315	P
	3.50 -15.48 4.00 -7.26	3.50 -15.48 85.47 4.00 -7.26 35.43 4.00 -7.26 48.74 0.00 2.43 31.34	3.50 -15.48 85.47 69.99 4.00 -7.26 35.43 28.17 4.00 -7.26 48.74 41.48 0.00 2.43 31.34 33.77	3.50 -15.48 85.47 69.99 74.00 4.00 -7.26 35.43 28.17 54.00 4.00 -7.26 48.74 41.48 74.00 0.00 2.43 31.34 33.77 54.00	3.50 -15.48 85.47 69.99 74.00 -4.01 4.00 -7.26 35.43 28.17 54.00 -25.83 4.00 -7.26 48.74 41.48 74.00 -32.52 0.00 2.43 31.34 33.77 54.00 -20.23	3.50 -15.48 85.47 69.99 74.00 -4.01 Peak 4.00 -7.26 35.43 28.17 54.00 -25.83 Average 4.00 -7.26 48.74 41.48 74.00 -32.52 Peak 0.00 2.43 31.34 33.77 54.00 -20.23 Average	3.50 -15.48 85.47 69.99 74.00 -4.01 Peak 383 4.00 -7.26 35.43 28.17 54.00 -25.83 Average 253 4.00 -7.26 48.74 41.48 74.00 -32.52 Peak 253 0.00 2.43 31.34 33.77 54.00 -20.23 Average 324	3.50 -15.48 85.47 69.99 74.00 -4.01 Peak 383 294 4.00 -7.26 35.43 28.17 54.00 -25.83 Average 253 282 4.00 -7.26 48.74 41.48 74.00 -32.52 Peak 253 282 0.00 2.43 31.34 33.77 54.00 -20.23 Average 324 315

Factor=Antenna Factor + cable loss - Amplifier Factor

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Power	:	PoE	Pol/Phase :	HORIZONTAL
Test Mode	:	Mode 4, CH09	Temperature :	25 °C
Test Date	:	Nov. 10, 2016	Humidity :	63 %



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-15.48	64.57	49.09	54.00	-4,91	Average	360	281	Р
2	2483.50	-15.48	88.01	72.53	74.00	-1.47	Peak	360	281	P
3	4904.00	-7.26	37.09	29.83	54.00	-24.17	Average	198	267	P
4	4904.00	-7.26	50.33	43.07	74.00	-30.93	Peak	198	267	P
5	12260.00	2.43	32.99	35.42	54.00	-18.58	Average	121	158	P
6	12260.00	2.43	47.52	49.95	74.00	-24.05	Peak	121	158	P

Factor=Antenna Factor + cable loss - Amplifier Factor

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6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 - 0.11000	16.42000 - 16.42300	399.9 – 410.0	4.500 - 5.250
0.49500 - 0.505**	16.69475 - 16.69525	608.0 - 614.0	5.350 - 5.460
2.17350 - 2.19050	16.80425 - 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 - 4.12800	25.50000 - 25.67000	1300.0 - 1427.0	8.025 - 8.500
4.17725 – 4.17775	37.50000 - 38.25000	1435.0 – 1626.5	9.000 - 9.200
4.20725 - 4.20775	73.00000 - 74.60000	1645.5 – 1646.5	9.300 - 9.500
6.21500 - 6.21800	74.80000 - 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 - 6.26825	108.00000 - 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 - 6.31225	123.00000 - 138.00000	2200.0 - 2300.0	14.470 – 14.500
8.29100 - 8.29400	149.90000 - 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 - 8.36600	156.52475 - 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 - 8.38675	156.70000 - 156.90000	2655.0 - 2900.0	22.010 – 23.120
8.41425 - 8.41475	162.01250 - 167.17000	3260.0 - 3267.0	23.600 – 24.000
12.29000 - 12.29300	167.72000 - 173.20000	3332.0 - 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 - 285.00000	3345.8 - 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 - 335.40000	3600.0 - 4400.0	Above 38.6
13.36000 - 13.41000			

^{**:} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

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7. Test of Conducted Spurious Emission

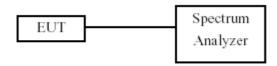
7.1 Test Limit

Below –20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

7.3 Test Setup Layout



7.4 Test Result and Data

Test Result : PASS Temperature : 24°C Test Date : Nov. 30, 2016 Humidity : 65%

Note: Test plots refers to the following pages.

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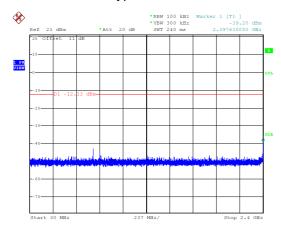
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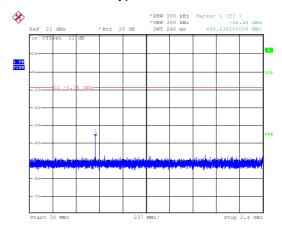
Antenna 1

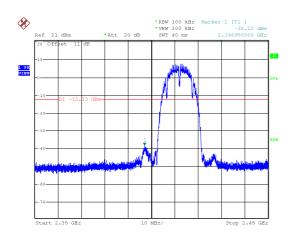
Modulation Type: 802.11b, CH 01

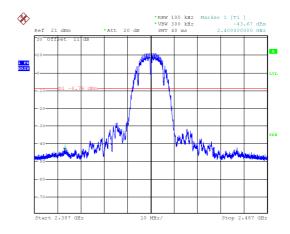


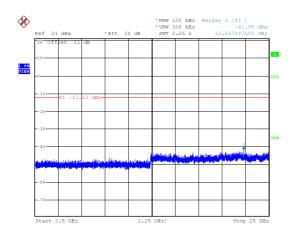
Modulation Type: 802.11b, CH 06

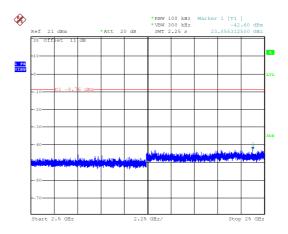
Report No.: TEFI1609105







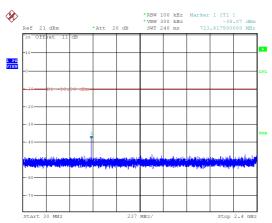


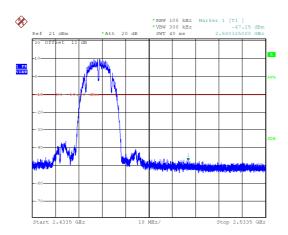


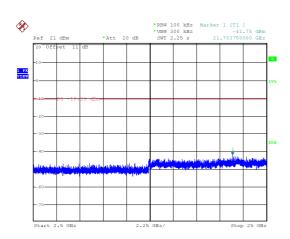
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Modulation Type: 802.11b, CH 11



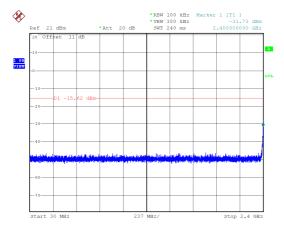




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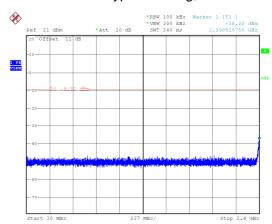


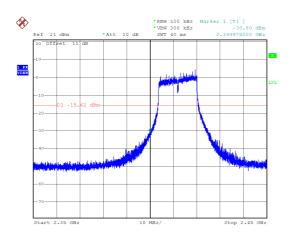
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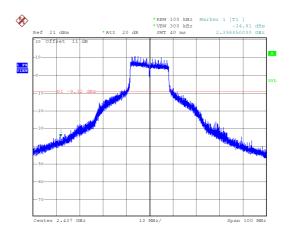


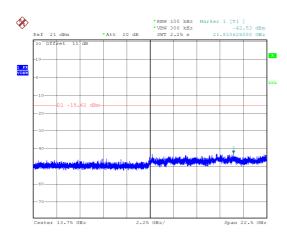
Modulation Type: 802.11g, CH 06

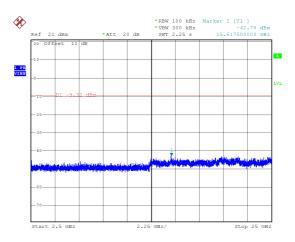
Report No.: TEFI1609105







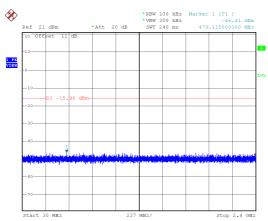


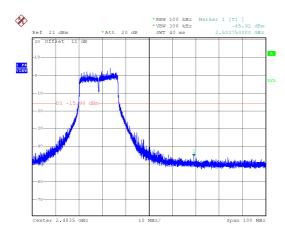


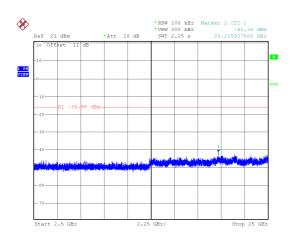
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Modulation Type: 802.11g, CH 11



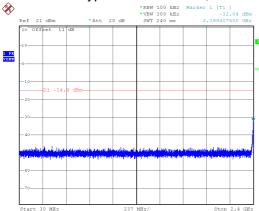




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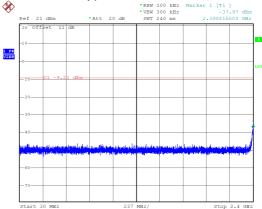


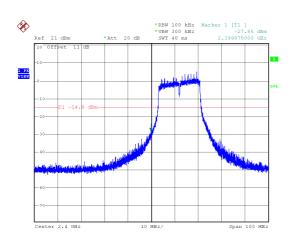
Modulation Type: 802.11n HT20, CH01

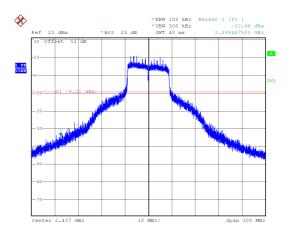


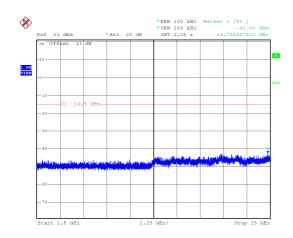


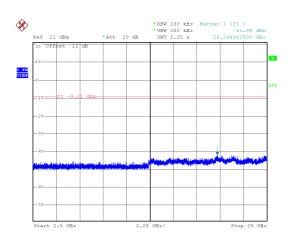
Report No.: TEFI1609105







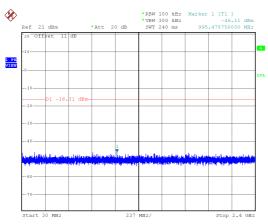


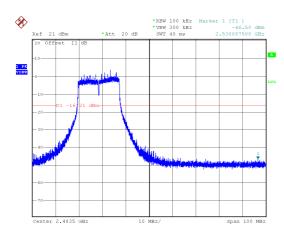


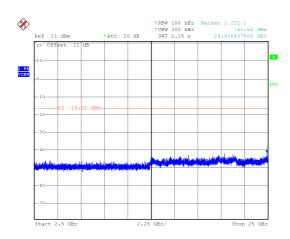
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Modulation Type: 802.11n HT20, CH11



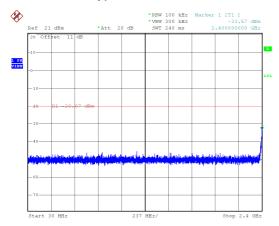




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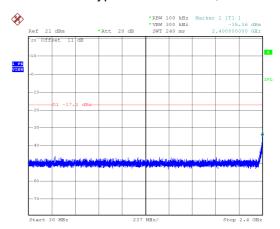


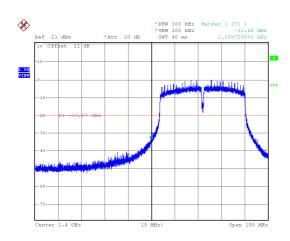
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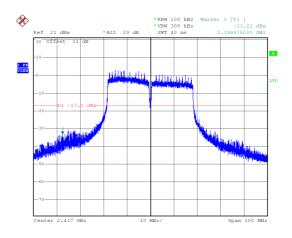


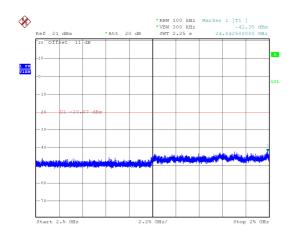
Modulation Type: 802.11n HT40, CH06

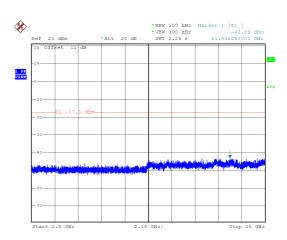
Report No.: TEFI1609105







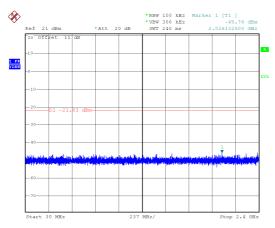


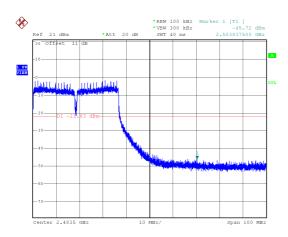


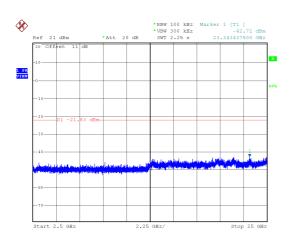
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Modulation Type: 802.11n HT40, CH09



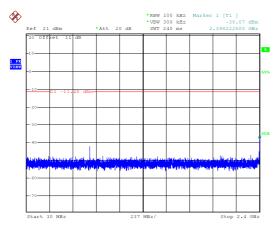




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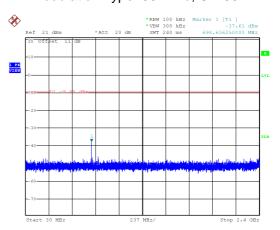


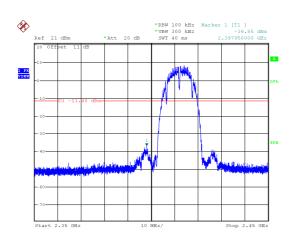
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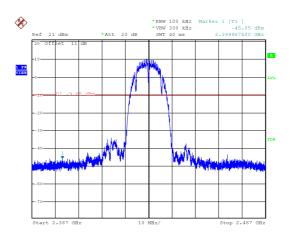


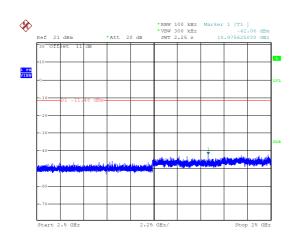
Modulation Type: 802.11b, CH 06

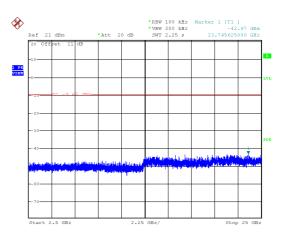
Report No.: TEFI1609105







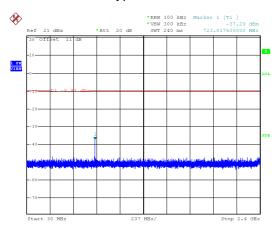


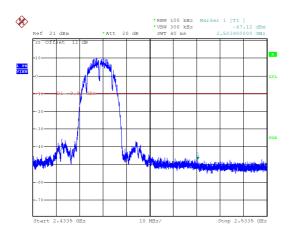


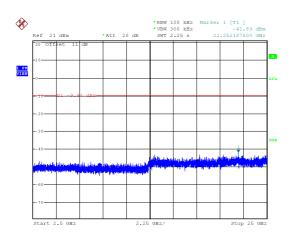
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Modulation Type: 802.11b, CH 11



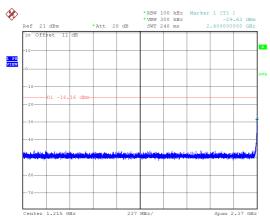




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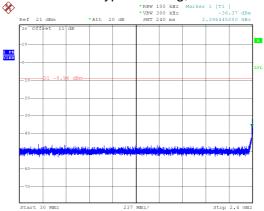


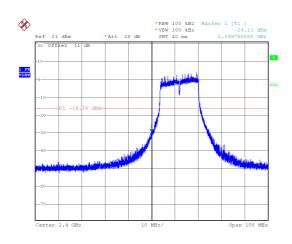
Modulation Type: 802.11g, CH 01

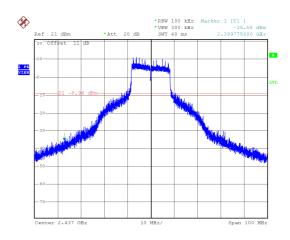


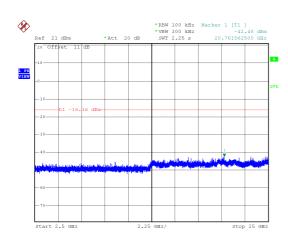
Modulation Type: 802.11g, CH 06

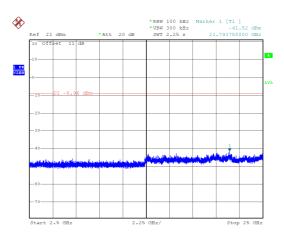
Report No.: TEFI1609105







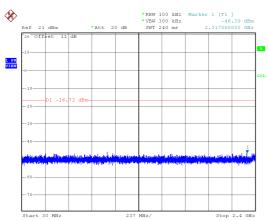


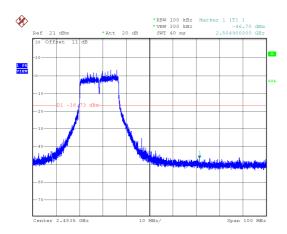


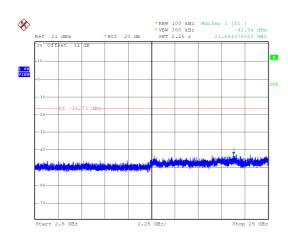
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Modulation Type: 802.11g, CH 11



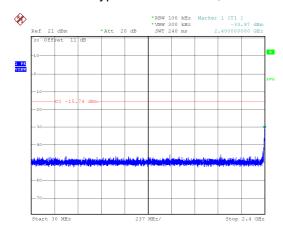




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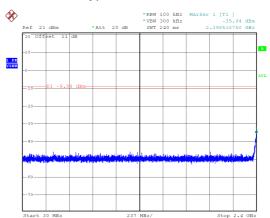


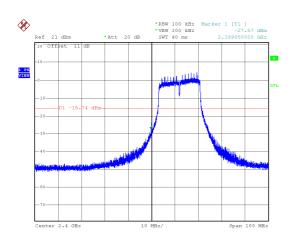
Modulation Type: 802.11n HT20, CH01

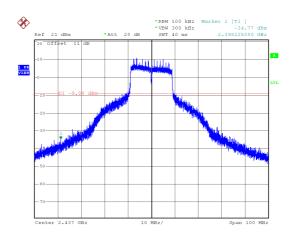


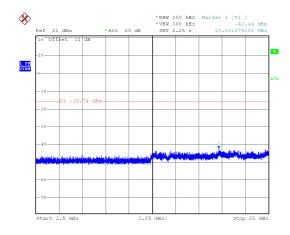
Modulation Type: 802.11n HT20, CH06

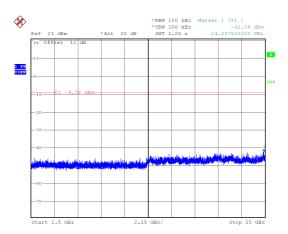
Report No.: TEFI1609105







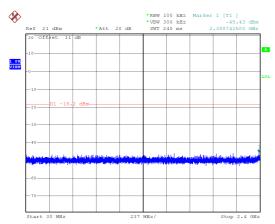


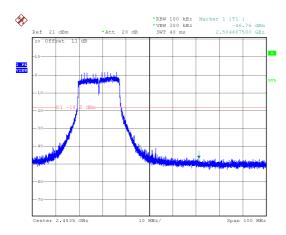


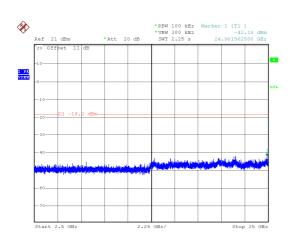
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Modulation Type: 802.11n HT20, CH11



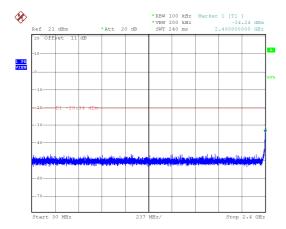




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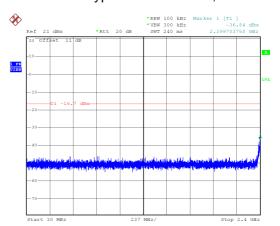


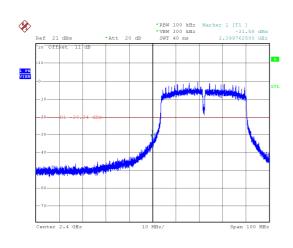
Modulation Type: 802.11n HT40, CH03

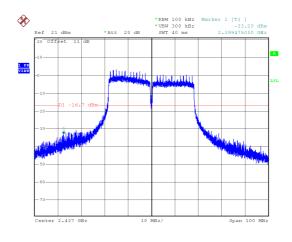


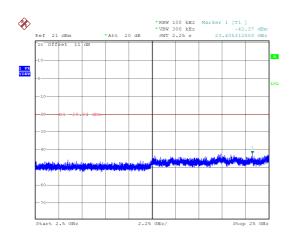
Modulation Type: 802.11n HT40, CH06

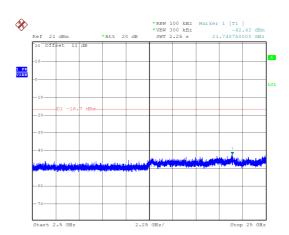
Report No.: TEFI1609105







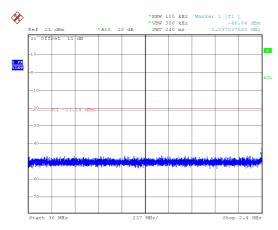


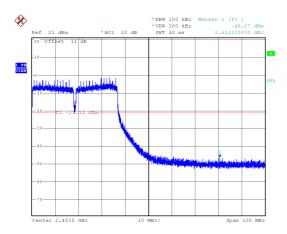


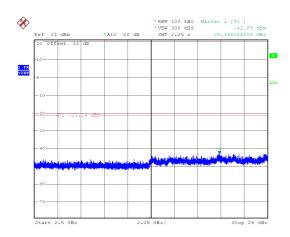
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Modulation Type: 802.11n HT40, CH09



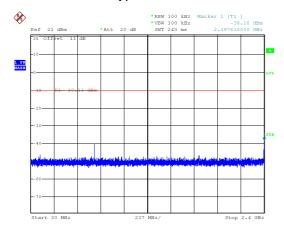




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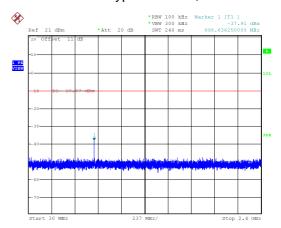


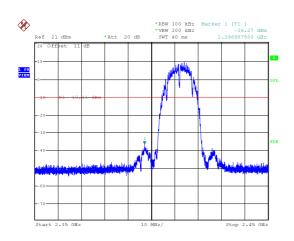
Modulation Type: 802.11b, CH 01

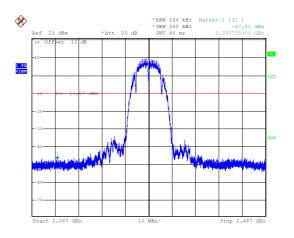


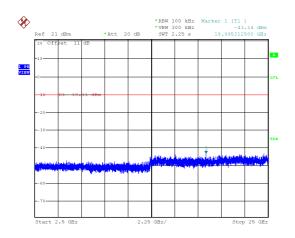
Modulation Type: 802.11b, CH 06

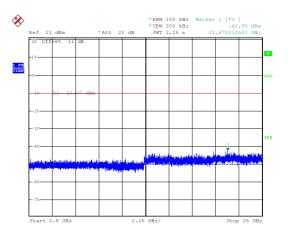
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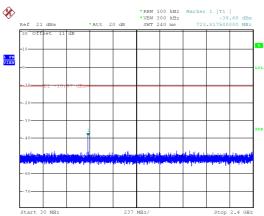


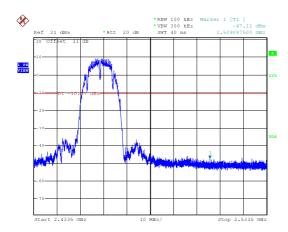


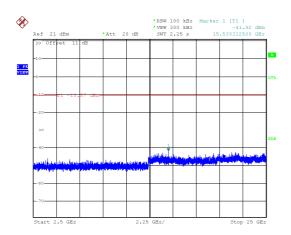
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Modulation Type: 802.11b, CH 11



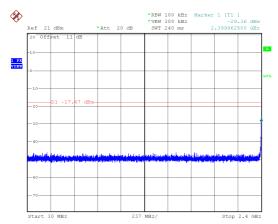




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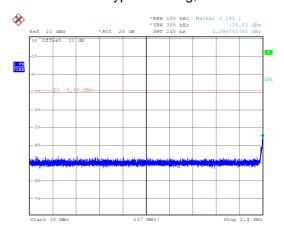


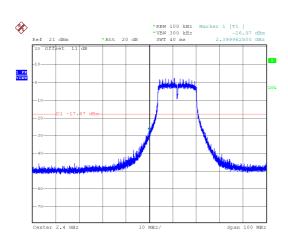
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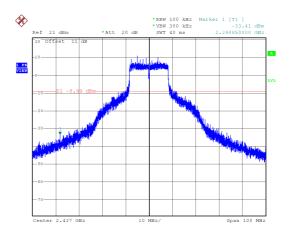


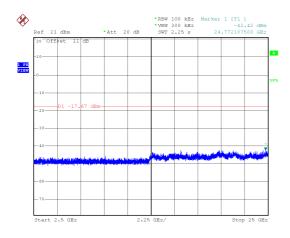
Modulation Type: 802.11g, CH 06

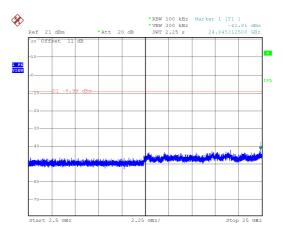
Report No.: TEFI1609105







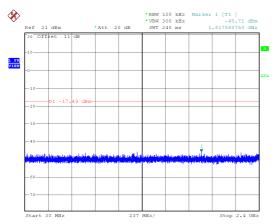


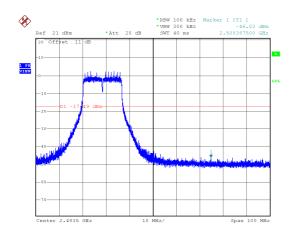


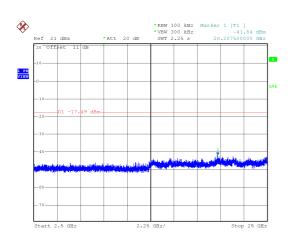
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Modulation Type: 802.11g, CH 11



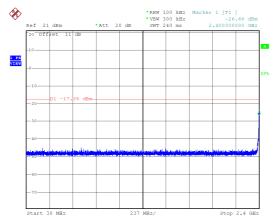




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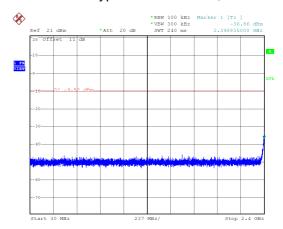


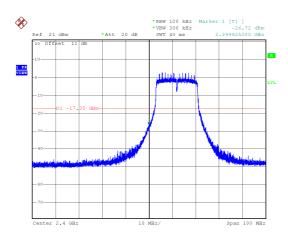
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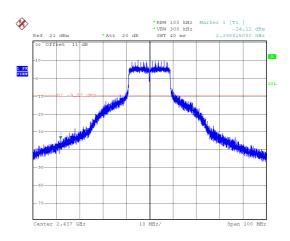


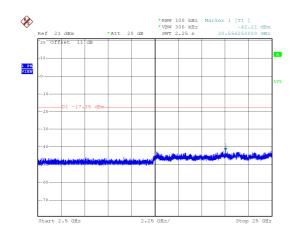
Modulation Type: 802.11n HT20, CH06

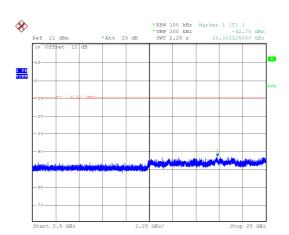
Report No.: TEFI1609105







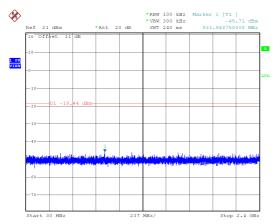


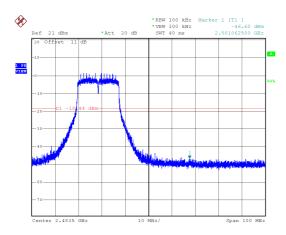


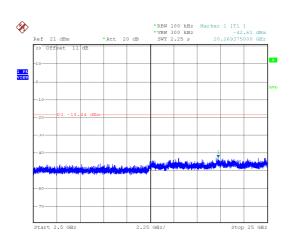
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Modulation Type: 802.11n HT20, CH11



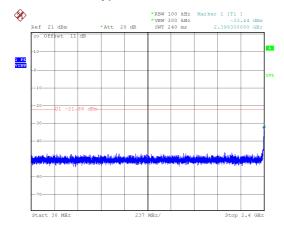




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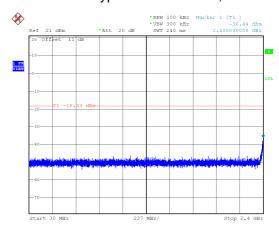


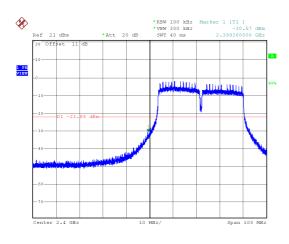
Modulation Type: 802.11n HT40, CH03

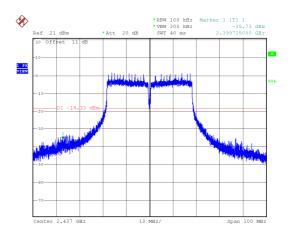


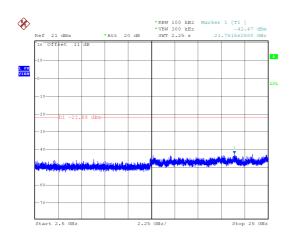
Modulation Type: 802.11n HT40, CH06

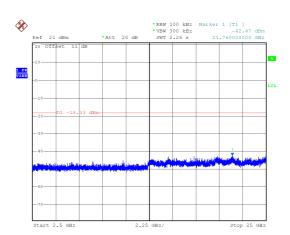
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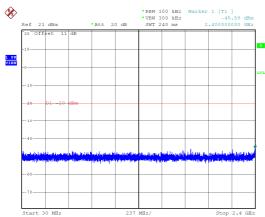


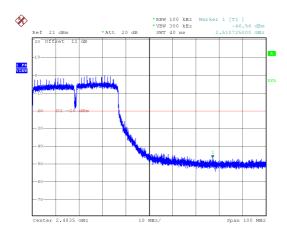


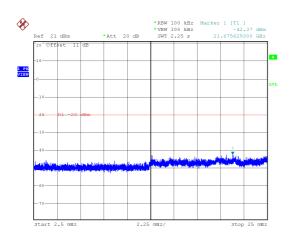
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Modulation Type: 802.11n HT40, CH09







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8. 6dB Bandwidth Measurement Data

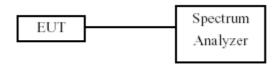
8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

8.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to $1\sim5\%$ of the emission bandwidth and VBW $\geq 3x$ RBW.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

8.3 Test Setup Layout



8.4 Test Result and Data

: 24°C Temperature Humidity : 65%

Test Date : Nov. 30, 2016

Maria Lagran Torri	Channel	Frequency (MHz)	6dB Bandwidth (MHz)			Limits
Modulation Type			ANT 1	ANT 2	ANT 3	(MHz)
IEEE 000 44h	01	2412	10.00	10.00	10.00	30
IEEE 802.11b	06	2437	10.00	10.00	10.00	30
(1Mbps)	11	2462	10.00	10.00	10.00	30
IEEE 000 44 ~	01	2412	16.50	16.40	15.80	30
IEEE 802.11g	06	2437	16.40	16.00	16.00	30
(6Mbps)	11	2462	16.40	16.50	16.30	30
IEEE 000 44 - LIT00	01	2412	17.60	16.60	16.50	30
IEEE 802.11n HT20	06	2437	17.60	17.10	16.90	30
(6.5Mbps)	11	2462	17.60	17.60	17.70	30
IEEE 000 44 = LIT40	03	2422	36.00	36.00	35.80	30
IEEE 802.11n HT40	06	2437	36.20	36.00	36.00	30
(13.5Mbps)	09	2452	36.20	36.40	36.40	30

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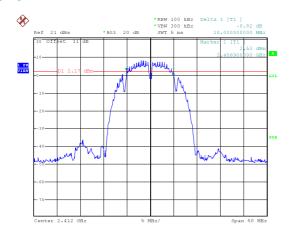
FCC ID. : WT8OMA60



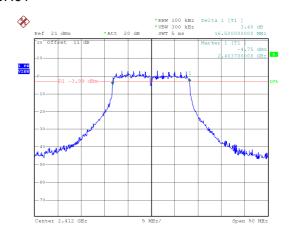
CERPASS TECHNOLOGY CORP.

Antenna 1

Modulation Type: 802.11b CH01

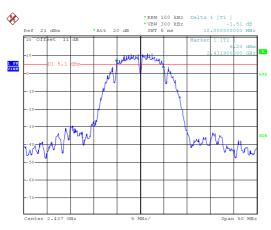


Modulation Type: 802.11g CH01

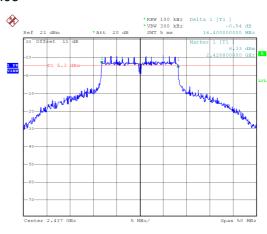


Report No.: TEFI1609105

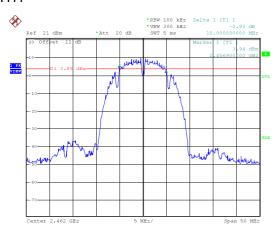
CH06



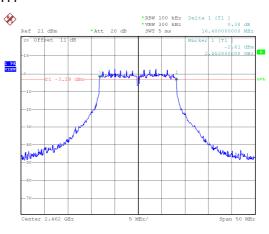
CH06



CH11



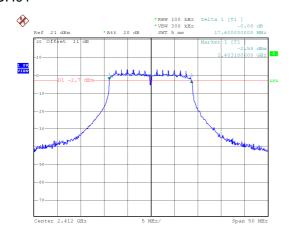
CH11



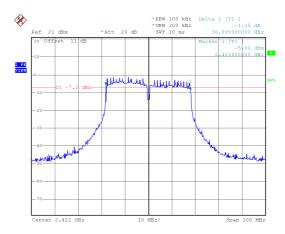
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Antenna 1 Modulation Type: 802.11n HT20 CH01

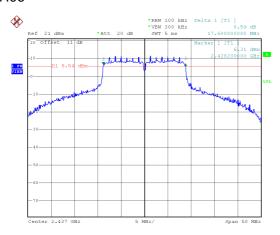


Modulation Type: 802.11n HT40 CH03

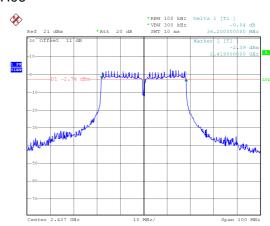


Report No.: TEFI1609105

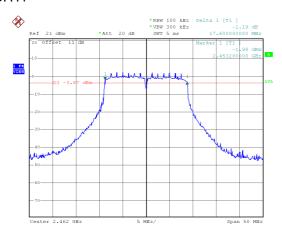
CH06



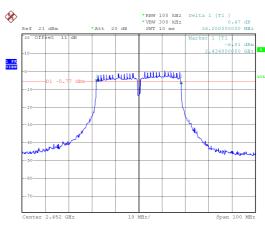
CH06



CH11



CH09



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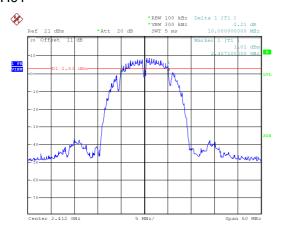


CERPASS TECHNOLOGY CORP.

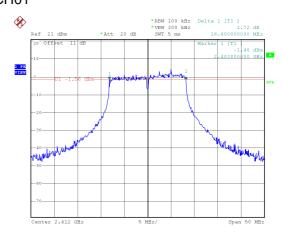
Report No.: TEFI1609105

Antenna 2

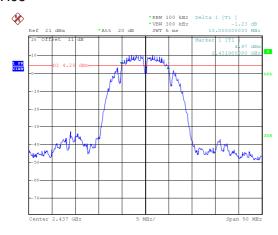
Modulation Type: 802.11b CH01



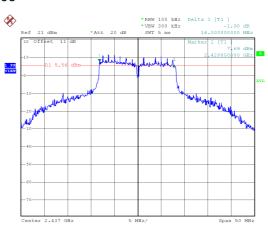
Modulation Type: 802.11g CH01



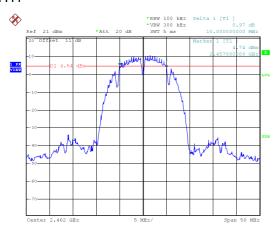
CH06



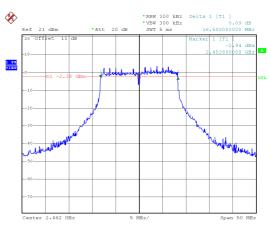
CH06



CH11



CH11



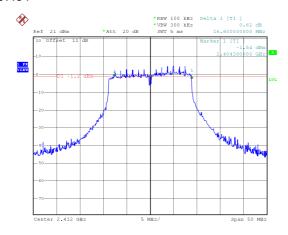
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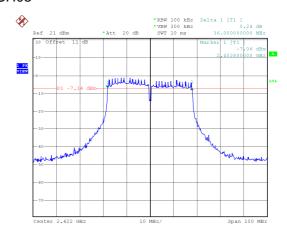


Antenna 2

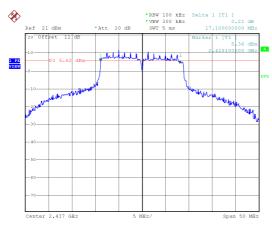
Modulation Type: 802.11n HT20 CH01



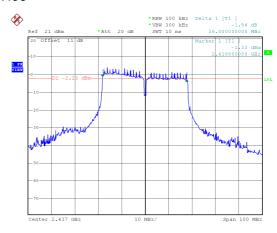
Modulation Type: 802.11n HT40 CH03



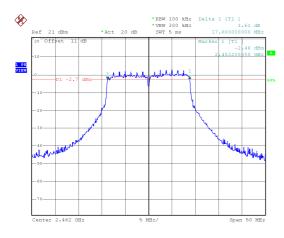
CH06



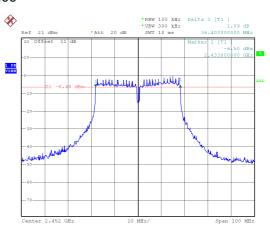
CH06



CH11



CH09



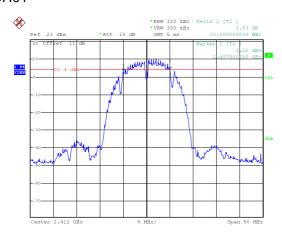
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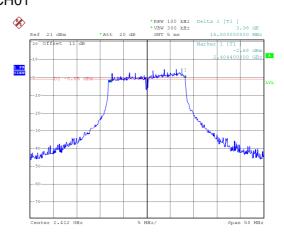
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Antenna 3

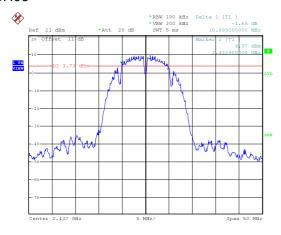
Modulation Type: 802.11b CH01



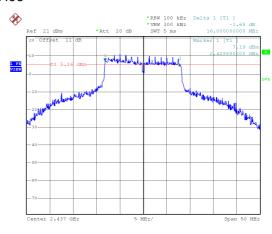
Modulation Type: 802.11g CH01



CH06



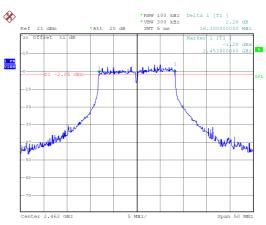
CH06



CH11



CH11

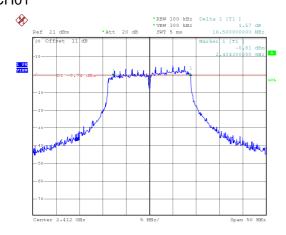


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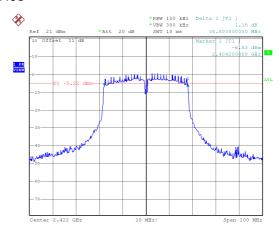




Antenna 3 Modulation Type: 802.11n HT20 CH01

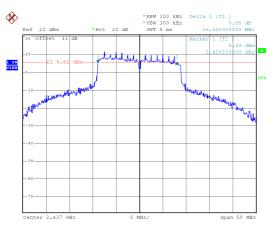


Modulation Type: 802.11n HT40 CH03

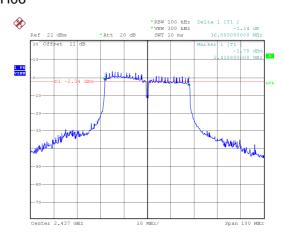


Report No.: TEFI1609105

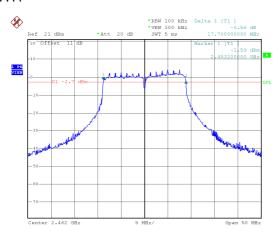
CH06



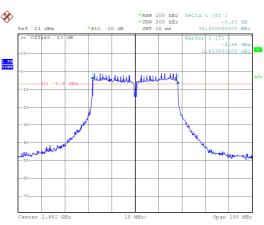
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9. Maximum Peak and Average Output Power

9.1 Test Limit

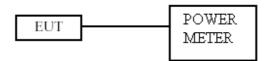
The Maximum Peak Output Power Measurement is 30dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

9.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

9.3 Test Setup Layout



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9.4 Test Result and Data

Temperature : 24°C Humidity : 65%

Test Date : Nov. 30, 2016

Modulation Type	Channel	Frequency (MHz)	Pea	ak Power	Output (Peak Power Output (mW)	Power Limit		
			ANT 1	ANT 2	ANT 3	1+2+3	ANT 1+2+3	(dBm)	
IEEE 802.11b (1Mbps)	01	2412	21.64	22.02	22.16	26.72	469.54	30.00	
	06	2437	22.80	22.44	22.21	27.26	532.28	30.00	
	11	2462	22.08	21.73	22.13	26.75	473.68	30.00	
IEEE 802.11g (6Mbps)	01	2412	23.24	23.54	23.59	28.23	665.37	30.00	
	06	2437	24.98	25.12	24.45	29.63	918.47	30.00	
	11	2462	23.05	23.12	23.27	27.92	619.28	30.00	
IEEE 802.11n HT20 (6.5Mbps)	01	2412	23.12	23.57	23.61	28.21	662.24	30.00	
	06	2437	24.92	25.01	24.72	29.66	923.90	30.00	
	11	2462	22.49	22.91	22.88	27.54	566.94	30.00	
IEEE 802.11n HT40 (13.5Mbps)	03	2422	21.07	22.27	22.84	26.89	488.90	30.00	
	06	2437	24.02	24.29	23.97	28.87	770.34	30.00	
	09	2452	22.6	21.83	21.57	26.79	477.92	30.00	

Modulation Type	Channel	Frequency (MHz)	Av	g. Power	Output (Avg. Power Output (mW)	Power Limit		
			ANT 1	ANT 2	ANT 3	1+2+3	ANT 1+2+3	(dBm)	
IEEE 802.11b (1Mbps)	01	2412	19.28	19.6	19.91	24.38	273.87	30.00	
	06	2437	20.60	20.21	19.95	25.03	318.62	30.00	
	11	2462	19.79	19.47	19.83	24.47	279.95	30.00	
IEEE 802.11g (6Mbps)	01	2412	14.62	14.85	15.28	19.70	93.25	30.00	
	06	2437	21.85	21.64	21.13	26.32	428.71	30.00	
	11	2462	14.32	14.4	14.9	19.32	85.48	30.00	
IEEE 802.11n HT20 (6.5Mbps)	01	2412	14.35	14.97	15.37	19.69	93.07	30.00	
	06	2437	21.58	21.45	21.05	26.14	410.87	30.00	
	11	2462	13.67	14.04	14.24	18.76	75.18	30.00	
IEEE 802.11n HT40 (13.5Mbps)	03	2422	12.06	13.29	14.14	18.02	63.34	30.00	
	06	2437	16.17	16.51	16.35	21.12	129.32	30.00	
	09	2452	13.75	12.77	12.65	17.86	61.04	30.00	

Note: Average power is for reference only.

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10. Power Spectral Density

10.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

- a. The transmitter output was connected to spectrum analyzer.
- b. The spectrum analyzer's resolution bandwidth were set at 3kHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- c. The power spectral density was measured and recorded.

10.3 Test Setup Layout



10.4 Test Result and Data

Temperature : 24°C Humidity : 65%

Test Date : Nov. 30, 2016

Modulation Type	Channel Frequency (MHz)		Maximum Power Density of 3 kHz Bandwidth (dBm)			Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
	0.4	0440	ANT1	ANT 2	ANT 3	` ,	` ′	` ′	0.00
IEEE 802.11b (1Mbps)	01	2412	-6.03	-5.53	-4.89	-0.69	0.00	-0.69	8.00
	06	2437	-4.79	-4.49	-3.97	0.37	0.00	0.37	8.00
	11	2462	-4.22	-4.51	-3.94	0.55	0.00	0.55	8.00
IEEE 802.11g (6Mbps)	01	2412	-10.8	-9.81	-10.33	-5.52	0.00	-5.52	8.00
	06	2437	-3.58	-2.98	-3.08	1.57	0.00	1.57	8.00
	11	2462	-10.43	-10.62	-8.53	-4.98	0.00	-4.98	8.00
IEEE 802.11n HT20 (6.5Mbps)	01	2412	-9.58	-10.51	-11.06	-5.57	0.00	-5.57	8.00
	06	2437	-3.33	-4.53	-3.57	0.99	0.00	0.99	8.00
	11	2462	-10.66	-11.17	-10.59	-6.03	0.00	-6.03	8.00
IEEE 802.11n HT40 (13.5Mbps)	03	2422	-9.32	-14.11	-16.41	-7.48	0.00	-7.48	8.00
	06	2437	-12.09	-10.17	-13.27	-6.88	0.00	-6.88	8.00
	09	2452	-14.12	-15.21	-13.42	-9.42	0.00	-9.42	8.00

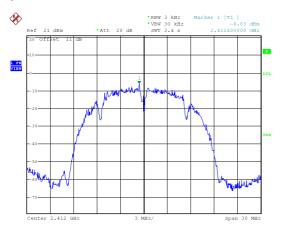
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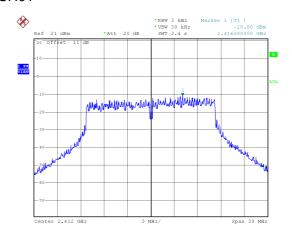
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Antenna 1 Modulation Type: 802.11b CH01



Modulation Type: 802.11g CH01

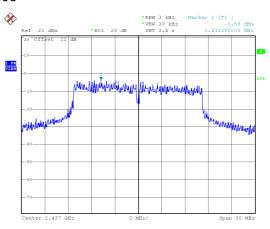


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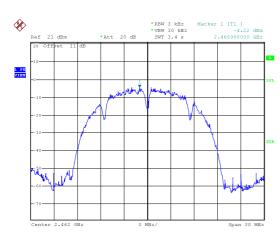
CH06



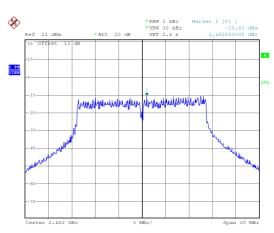
CH06



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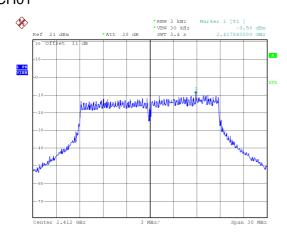


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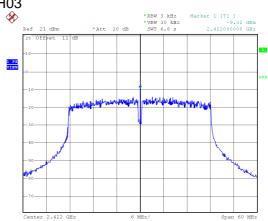


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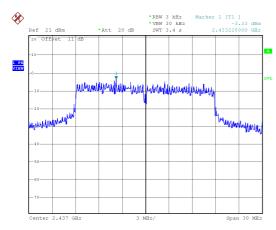
Antenna 1 Modulation Type: 802.11n HT20 CH01



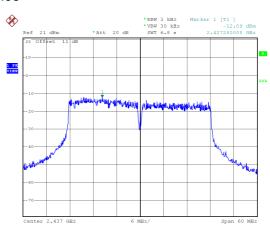
Modulation Type: 802.11n HT40 CH03



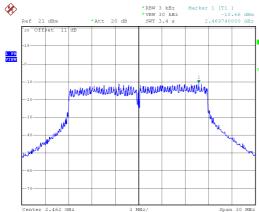
CH06



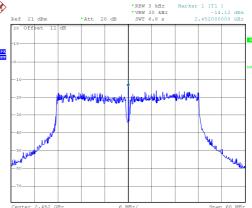
CH06







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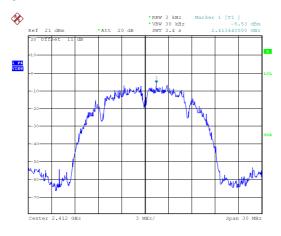


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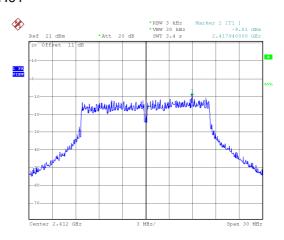


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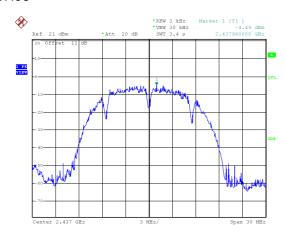
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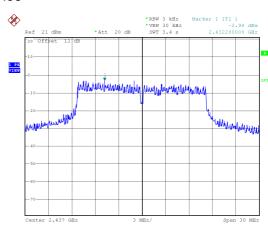
Modulation Type: 802.11g CH01



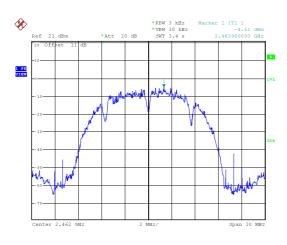
CH06



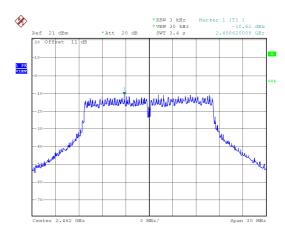
CH06



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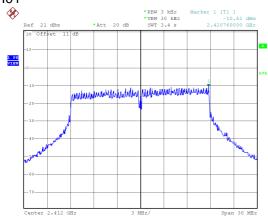


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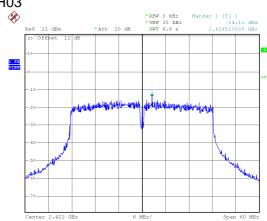


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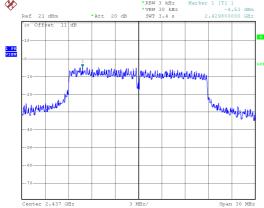
Antenna 2 Modulation Type: 802.11n HT20 CH01



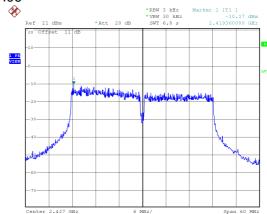
Modulation Type: 802.11n HT40 CH03



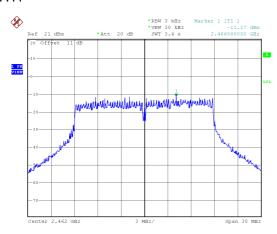




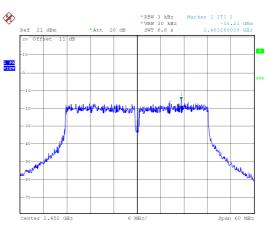
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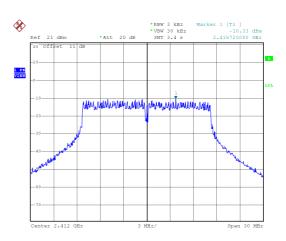


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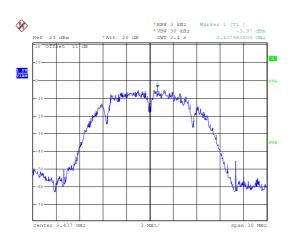
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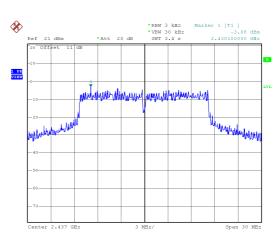
Modulation Type: 802.11g CH01



CH06



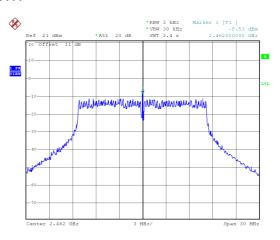
CH06



CH11



CH11

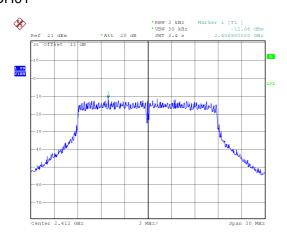


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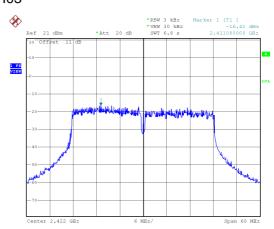


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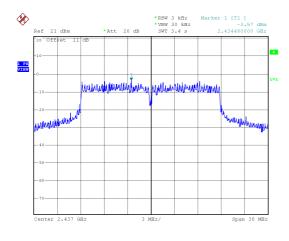
Antenna 3 Modulation Type: 802.11n HT20 CH01



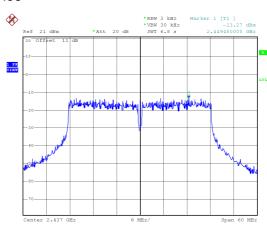
Modulation Type: 802.11n HT40 CH03



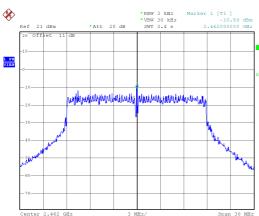
CH06



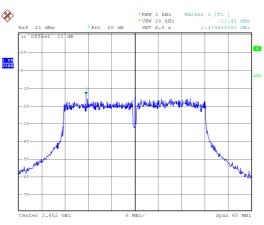
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