

Produkte
Products



Prüfbericht - Nr.: 14042596 001			Seite 1 von 19		
<i>Test Report No.:</i>			<i>Page 1 of 19</i>		
Auftraggeber: <i>Client:</i>		Stadlbauer Marketing + Vertrieb GmbH Rennbahn Allee1 5412 Puch, Salzburg Austria			
Gegenstand der Prüfung: <i>Test Item:</i>		WLAN camera			
Bezeichnung: <i>Identification:</i>		370410215	Serien-Nr.: <i>Serial No.:</i>		Engineering sample
Wareneingangs-Nr.: <i>Receipt No.:</i>		A000292183-001, A000292183-002	Eingangsdatum: <i>Date of Receipt:</i>		08.12.2015
Prüfört: <i>Testing Location:</i>		TÜV Rheinland Hong Kong Ltd. 8/F, First Group Centre, 14 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong Shenzhen Huatongwei International Inspection Co., Ltd. 1/F, Bldg 3, Hongfa Hi-tech, Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of test item at delivery:</i>			Test samples are not damaged and suitable for testing.		
Prüfgrundlage: <i>Test Specification:</i>		FCC Part 15 Subpart C ANSI C63.10-2013			
Prüfergebnis: <i>Test Results:</i>		Das vorstehend beschriebene Gerät wurde geprüft und entspricht oben genannter Prüfgrundlage. The above mentioned product was tested and passed .			
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland Hong Kong Ltd. 8 - 10/F., Goldin Financial Global Square, 7 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong			
geprüft/ tested by:			kontrolliert/ reviewed by:		
15.02.2016		Hugo Wan Senior Project Manager		15.02.2016	
Datum <i>Date</i>		Name/Stellung <i>Name/Position</i>		Datum <i>Date</i>	
		Unterschrift <i>Signature</i>		Sharon Li Department Manager	
					
		Unterschrift <i>Signature</i>		Unterschrift <i>Signature</i>	
Sonstiges: <i>Other Aspects</i>		FCC ID: YFA370410215			
Abkürzungen:		<i>P(ass) = entspricht Prüfgrundlage</i>		Abbreviations:	
<i>F(ail) = entspricht nicht Prüfgrundlage</i>		<i>N/A = nicht anwendbar</i>		<i>P(ass) = passed</i>	
<i>N/T = nicht getestet</i>				<i>F(ail) = failed</i>	
				<i>N/A = not applicable</i>	
				<i>N/T = not tested</i>	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

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Product information

Manufacturers declarations

	IEEE 802.11 Transceiver
Operating frequency range	2412 - 2462 MHz
Type of modulation	IEEE 802.11b: CCK, DQPSK, DBPSK IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM IEEE 802.11n: BPSK, QPSK, 16QAM, 64QAM
Number of channels	IEEE 802.11b/g/n HT20: 11 IEEE 802.11n HT40: 7
Channel separation	5 MHz
Type of antenna	External fixed Antenna
Antenna gain (dBi)	0 dBi
Power level	fix
Type of equipment	stand alone radio device
Connection to public utility power line	No
Nominal voltage	V_{nor} : 3.7V DC
Independent Operation Modes	Transmitting mode

Product function and intended use

The equipment under test (EUT) is wireless LAN camera which is designed to be connected with a smartphone in order to transfer the video signal from the EUT camera to the smartphone using wireless LAN technology.

The wireless LAN radio is operating between 2412MHz and 2462MHz frequency, supports 11 frequency channels and 20MHz bandwidth at IEEE802.11b/g/n HT20 mode. In addition, at mode IEEE802.11 n HT40, it is operating from 2422MHz to 2452MHz with 7 channels and 40MHz bandwidth in each channel. It is powered by DC power port from host device.

FCC ID: YFA370410215

Model	Product description
370410215	WLAN camera

Submitted documents

Circuit Diagram
Block Diagram
Bill of material
User manual
Label

Independent Operation Modes

The basic operation modes are:

- IEEE 802.11b/g/n communication mode.

For further information refer to User Manual

Related Submittal(s) Grants

This is a single application for certification of the transmitters.

Remark

Nil

Test Set-up and Operation Mode

Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Test Operation and Test Software

Test operation should refer to test methodology.

- Special software is provided by the grantee to set the device to operate in a fixed frequency channel and maximum RF output power level.
- Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate.

Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

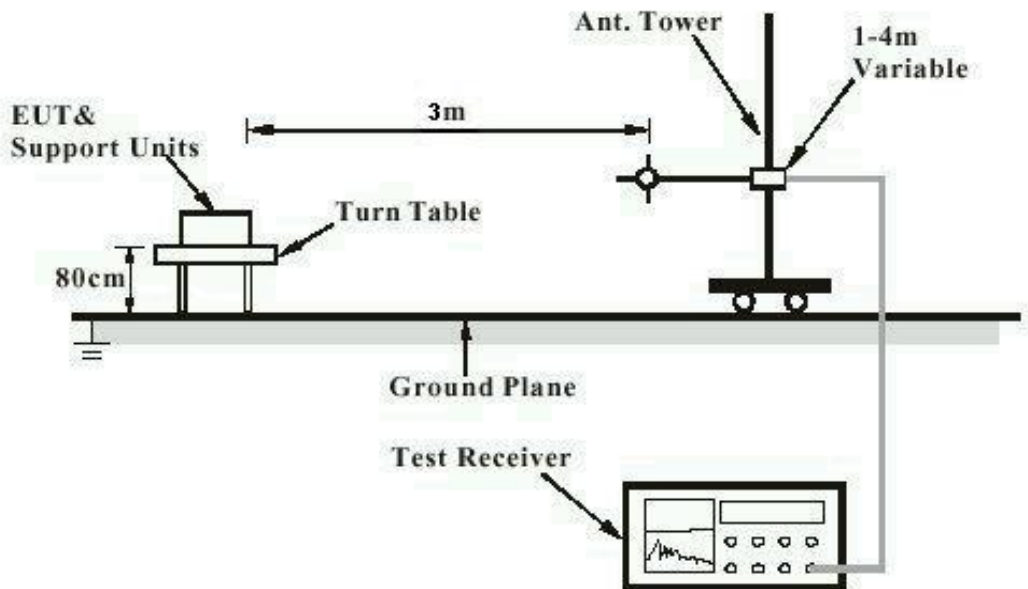
- Laptop computer to control the test mode of EUT.
- Radio controlled toy quadcopter as host to power up the EUT camera.

Countermeasures to achieve EMC Compliance

- none

Test Setup Diagram

Diagram of Measurement Configuration for Radiated Emission Test



Note: Measurements above 1 GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Configuration for Conducted RF Test

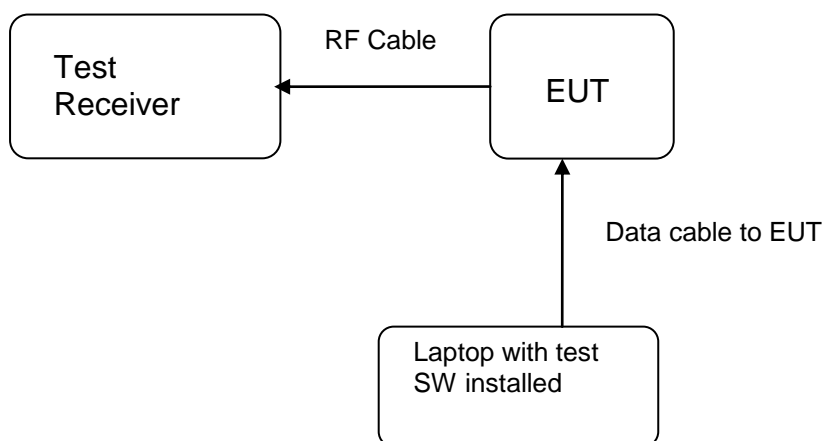
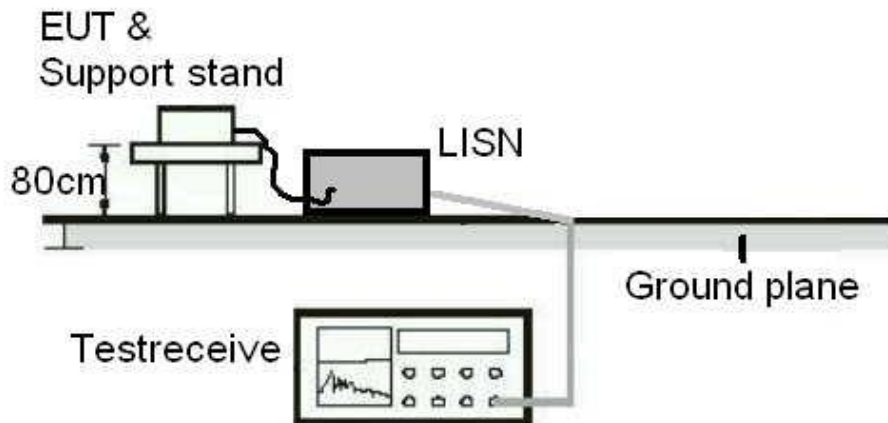


Diagram of Measurement Equipment Configuration for AC Mains Conducted Emission Test (if applicable)



List of Test and Measurement Instruments

Shenzhen Huatongwei International Inspection Co., Ltd.
(Registration number: 317478)

Radiated Emission

Equipment	Manufacturer	Type	Cal. Date	Due Date
Ultrar-Broadband Antenna	Rohde&Schwarz	HL562	3 Nov 2015	3 Nov 2016
Horn Antenna	Rohde&Schwarz	HF906	3 Nov 2015	3 Nov 2016
Loop Antenna	Rohde&Schwarz	HFH2-Z2	11 May 2014	11 Apr 2017
Antenna Mast	ETS	2075	N/A	N/A
EMI Test Receiver	Rohde&Schwarz	ESI 26	3 Nov 2015	3 Nov 2016
RF Test Panel	Rohde&Schwarz	TS / RSP	N/A	N/A
Turetable	ETS	2088	N/A	N/A
EMI Test Software	Rohde&Schwarz	ESK1	N/A	N/A

TÜV Rheinland Hong Kong Ltd

Radio Test

Equipment	Manufacturer	Type	Cal. Date	Due Date
Spectrum Analyzer	R & S	FSP30	13 Jan 2015	13 Jan 2017
Power meter	Dijkstra Advice, Research & EMC Instruments B.V.	RPR3006W	09 Jul 2015	08 Jul 2016

Results FCC Part 15 Subpart C

FCC 15.203 – Antenna Requirement 1		Pass
FCC Requirement:	No antenna other than that furnished by the responsible party shall be used with the device	
Results:	a) Antenna type:	Fixed external antenna
	b) Manufacturer and model no:	N/A
	c) Peak Gain:	0 dBi
Verdict:	Pass	

FCC 15.204 – Antenna Requirement 2		N/A
FCC Requirement:	<p>A transmission system consisting of an intentional radiator, an external radio frequency power amplifier, and an antenna, may be authorized, marketed and used under this part. Except as described otherwise in this section, when a transmission system is authorized as a system, it must always be marketed as a complete system and must always be used in the configuration in which it was authorized.</p> <p>An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator. An intentional radiator may be authorized with multiple antenna types.</p>	
Results:	Only one fixed antenna can be used.	
Verdict:	N/A	

FCC 15.207 – Conducted Emission on AC Mains						N/A
Test Specification : ANSI C63.10 – 2013 Mode of operation : -- Port of testing : -- Detector : Quasi-peak and Average RBW : 9 kHz Supply voltage : -- Temperature : 23°C Humidity : 50%						
Requirement: 15.207(a)						
Results: --						
Live measurement						
Frequency range (MHz)	Frequency (MHz)	Quasi-peak dBµV	Average dBµV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0,15 – 0,5	--	--	--	66 - 56	56 - 46	--
> 0,5 - 5	--	--	--	56	46	--
> 5 - 30	--	--	--	60	50	--
Neutral measurement						
Frequency range (MHz)	Frequency (MHz)	Quasi-peak dBµV	Average dBµV	Limit QP (dBµV)	Limit AV (dBµV)	Verdict
0,15 – 0,5	--	--	--	66 - 56	56 - 46	--
> 0,5 - 5	--	--	--	56	46	--
> 5 - 30	--	--	--	60	50	--

FCC 15.247 (a)(2) – 6dB Bandwidth Measurement		Pass	
<p>FCC Requirement: Systems using digital modulation techniques may operate in the 902 – 928 MHz, 2400 – 2483.5 MHz, and 5725 – 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500kHz.</p> <p>IC Requirement: The minimum -6 dB bandwidth shall be at least 500 kHz.</p>			
<p>Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r04 section 8.1 Option 1 Mode of operation : TX mode Port of testing : Temporary antenna port Detector : Peak RBW/VBW : 100KHz/ 300KHz Supply voltage : 3.7V DC power supply Temperature : 23°C Humidity : 50%</p>			
<p>Results: For test protocols please refer to Appendix 1.</p>			
802.11b			
Channel frequency (MHz)	6 dB left (MHz)	6 dB right (MHz)	6dB bandwidth (MHz)
2412	2406.960	2417.000	10.040
2437	2431.960	2441.600	9.640
2462	2456.960	2467.000	10.040
802.11g			
Channel frequency (MHz)	6 dB left (MHz)	6 dB right (MHz)	6dB bandwidth (MHz)
2412	2403.720	2420.280	16.560
2437	2428.720	2445.320	16.600
2462	2453.720	2470.280	16.560
802.11n HT20			
Channel frequency (MHz)	6 dB left (MHz)	6 dB right (MHz)	6dB bandwidth (MHz)
2412	2403.120	2420.920	17.800
2437	2428.120	2445.880	17.760
2462	2453.080	2470.920	17.840
802.11n HT40			
Channel frequency (MHz)	6 dB left (MHz)	6 dB right (MHz)	6dB bandwidth (MHz)
2422	2403.700	2440.300	36.600
2437	2418.700	2455.300	36.600
2452	2433.700	2470.400	36.700

FCC 15.247(b)(3) – Maximum Peak Conducted Output Power					Pass
FCC Requirement: For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt (30dBm)					
Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r04 section 9.1.2 Mode of operation : TX mode Port of testing : Temporary antenna port Detector : Peak Supply voltage : 3.7V DC power supply Temperature : 23°C Humidity : 50%					
802.11b					
Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2412	11.99	0	11.99	1 / 30.0	Pass
2437	11.96	0	11.96	1 / 30.0	Pass
2462	11.97	0	11.97	1 / 30.0	Pass
802.11g					
Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2412	11.61	0	11.61	1 / 30.0	Pass
2437	11.45	0	11.45	1 / 30.0	Pass
2462	11.50	0	11.50	1 / 30.0	Pass
802.11n HT20					
Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2412	11.52	0	11.52	1 / 30.0	Pass
2437	11.25	0	11.25	1 / 30.0	Pass
2462	11.36	0	11.36	1 / 30.0	Pass
802.11n HT40					
Frequency (MHz)	Maximum peak output power (dBm)	Cable attenuation (dB)	Output power (dBm)	Limit (W/dBm)	Verdict
2422	11.75	0	11.75	1 / 30.0	Pass
2437	11.57	0	11.57	1 / 30.0	Pass
2452	11.15	0	11.15	1 / 30.0	Pass

FCC 15.247(e) – Power Spectral Density			Pass
FCC Requirement: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.			
Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r04 section 10.2 Mode of operation : TX mode Port of testing : Temporary antenna port Detector : Peak RBW/VBW : ≥100 KHz / ≥3xRBW span : ≥1.5 x DTS BW Supply voltage : 3.7V DC from power supply Temperature : 23°C Humidity : 50%			
Results: For test protocols please refer to Appendix 1.			
802.11b			
Operating frequency (MHz)	Power density (dBm)	Limit (dBm)	Verdict
2412	5.53	8.0	Pass
2437	4.71	8.0	Pass
2462	5.15	8.0	Pass
802.11g			
Operating frequency (MHz)	Power density (dBm)	Limit (dBm)	Verdict
2412	1.66	8.0	Pass
2437	1.82	8.0	Pass
2462	2.20	8.0	Pass
802.11n HT20			
Operating frequency (MHz)	Power density (dBm)	Limit (dBm)	Verdict
2412	1.67	8.0	Pass
2437	1.15	8.0	Pass
2462	1.98	8.0	Pass
802.11n HT40			
Operating frequency (MHz)	Power density (dBm)	Limit (dBm)	Verdict
2422	0.14	8.0	Pass
2437	-0.54	8.0	Pass
2452	-1.23	8.0	Pass

FCC 15.247(d) – Spurious Conducted Emissions						Pass
Test Specification : KDB 558074 D01 DTS Measurement Guidance v03r04 section 11.1 Mode of operation : TX mode Port of testing : Temporary antenna port Detector : Peak RBW/VBW : 100 kHz / 300 kHz Supply voltage : 3.7V DC from power supply Temperature : 23 °C Humidity : 50 %						
FCC Requirement: In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.						
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. Only the worst cases is shown below. For test protocols refer to Appendix 1.						
802.11b						
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict	
2412	--	--	--	--	Pass	
2437	--	--	--	--	Pass	
2462	--	--	--	--	Pass	
802.11g						
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict	
2412	--	--	--	--	Pass	
2437	--	--	--	--	Pass	
2462	--	--	--	--	Pass	
802.11n HT20						
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict	
2412	--	--	--	--	Pass	
2437	4432.000	-32.59	1.15	-33.74	Pass	
2462	--	--	--	--	Pass	
802.11n HT40						
Operating frequency (MHz)	Spurious frequency (MHz)	Spurious Level (dBm)	Reference value (dBm)	Delta (dB)	Verdict	
2422	9256.000	-31.07	0.14	-31.21	Pass	
2437	--	--	--	--	Pass	
2452	--	--	--	--	Pass	

FCC 15.247(d) or 15.205 – Radiated Emissions in Restricted Frequency Bands		Pass
Test Specification : ANSI C63.10 – 2013 Mode of operation : TX mode Port of testing : Enclosure Detector : Peak RBW/VBW : 100 kHz / 300 kHz for f < 1 GHz 1 MHz / 3 MHz for f > 1 GHz Supply voltage : 3.7V DC from host device Temperature : 23°C Humidity : 50%		
FCC Requirement: In any 100kHz bandwidth outside the frequency band at least 20dB below the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).		
Results: Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations and data rate. All three transmit frequency modes comply with the field strength within the restricted bands. There is no spurious found below 30MHz.		
Mode: 802.11b 2412MHz TX		Vertical Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4024.520	38.01	54.0 / AV
4821.760	63.86	74.0 / PK
4821.760	38.54	54.0 / AV
Mode: 802.11b 2412MHz TX		Horizontal Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4014.290	42.12	74.0 / PK
4024.520	38.01	54.0 / AV
4821.760	65.73	74.0 / PK
4834.050	38.55	54.0 / AV
Mode: 802.11b 2437MHz TX		Vertical Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4871.100	60.47	74.0 / PK
4871.100	38.57	54.0 / AV
Mode: 802.11b 2437MHz TX		Horizontal Polarization
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m
4871.100	62.86	74.0 / PK
4871.100	38.57	54.0 / AV

Mode: 802.11b 2462MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4920.960	66.30	74.0 / PK	
4920.960	38.60	54.0 / AV	
Mode: 802.11b 2462MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4920.960	66.35	74.0 / PK	
4920.960	38.60	54.0 / AV	
Mode: 802.11g 2412MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4834.050	61.12	74.0 / PK	
4821.760	38.54	54.0 / AV	
Mode: 802.11g 2412MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4821.760	62.20	74.0 / PK	
4821.760	38.54	54.0 / AV	
Mode: 802.11g 2437MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4871.100	60.39	74.0 / PK	
4883.520	38.58	54.0 / AV	
Mode: 802.11g 2437MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4871.100	66.12	74.0 / PK	
4883.520	38.58	54.0 / AV	
Mode: 802.11g 2462MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4933.500	64.33	74.0 / PK	
4920.960	38.60	54.0 / AV	
Mode: 802.11g 2462MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4920.960	65.54	74.0 / PK	
4920.960	38.60	54.0 / AV	
Mode: 802.11n HT20 2412MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4834.050	60.67	74.0 / PK	
4821.760	38.54	54.0 / AV	

Mode: 802.11n HT20 2412MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4834.050	63.75	74.0 / PK	
4821.760	38.54	54.0 / AV	
Mode: 802.11n HT20 2437MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4871.100	59.82	74.0 / PK	
4871.100	38.57	54.0 / AV	
Mode: 802.11n HT20 2437MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4871.100	64.49	74.0 / PK	
4871.100	38.57	54.0 / AV	
Mode: 802.11n HT20 2462MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
2484.320	61.55	74.0 / PK	
2496.210	45.76	54.0 / AV	
4933.500	62.82	74.0 / PK	
4933.500	38.61	54.0 / AV	
Mode: 802.11n HT20 2462MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
2484.160	66.52	74.0 / PK	
2483.480	46.00	54.0 / AV	
4933.500	63.39	74.0 / PK	
4920.960	38.60	54.0 / AV	
Mode: 802.11n HT40 2422MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4834.050	56.80	74.0 / PK	
4871.100	42.99	54.0 / AV	
Mode: 802.11n HT40 2422MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4846.370	63.43	74.0 / PK	
4858.720	38.56	54.0 / AV	
Mode: 802.11n HT40 2437MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4883.520	59.64	74.0 / PK	
4871.100	48.45	54.0 / AV	

Mode: 802.11n HT40 2437MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
4883.520	63.15	74.0 / PK	
4883.520	38.58	54.0 / AV	
Mode: 802.11n HT40 2452MHz TX		Vertical Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
2485.950	66.56	74.0 / PK	
2489.270	45.82	54.0 / AV	
4908.440	59.03	74.0 / PK	
4908.440	44.02	54.0 / AV	
Mode: 802.11n HT40 2452MHz TX		Horizontal Polarization	
Freq MHz	Level dBuV/m	Limit/ Detector dBuV/m	
2489.620	69.16	74.0 / PK	
2485.750	46.04	54.0 / AV	
4908.440	56.60	74.0 / PK	
4920.960	44.39	54.0 / AV	