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1 Cover Page

FCC Part 15E TEST REPORT

Application No.:	SHEM1704002127CR			
Applicant:	Apollo Tech USA Inc.			
FCC ID:	2AML4-MOCAM720			
Equipment Under Test NOTE: The following sa	t (EUT): ample(s) was/were submitted and identified by the client as			
Product Name:	Dual Band Wifi Video Camera			
Model No.(EUT):	MOCAM-720-01			
Add Model No.:	MOGA-001			
Standards:	FCC PART 15 Subpart E: 2016			
Date of Receipt:	2017-04-17			
Date of Test:	2017-06-13 to 2017-06-16			
Date of Issue:	2017-06-16			
Test Result:	Pass*			

^{*}In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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

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	Revision Record							
Version Chapter Date Modifier Remark								
00		2017-06-16		Original				

Authorized for issue by:			
Tested By	Vincent Zhu	2017-06-16	
	Vincent Zhu /Project Engineer	Date	
Checked By	Parlam Zhan	2017-06-16	
	Parlam Zhan /Reviewer	Date	



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2 Test Summary

Test Item	FCC Requirement Test method		Result
Antenna Requirement	15.203 & 15.407 a(1)&(3)	-	PASS
AC Power Line Conducted Emission	15.407 b(6)	ANSI C63.10 (2013) Clause 6.2	PASS
26 dB Emission bandwidth	15.403 i		PASS
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	15.407 (e)		PASS
Maximum Conducted output power	15.407 a(1)&(3)		PASS
Transmitter Power Control	15.407 (h)(1)	KDB 789033 D02 KDB 644545	N/A
Peak Power spectrum density	15.407 a(1)&(3)	KDB 644343 KDB662911 D01	PASS
Radiated Spurious emissions and Band-edge	15.209 & 15.407		PASS
Transmission in the Absence of Data	15.407 (c)		PASS
Frequency Stability	15.407 (g)		PASS
Dynamic Frequency Selection	15.407 (h)(2)	KDB 905462 D02 KDB 905462 D03	N/A

Notes: N/A: The device no DFS Band.



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4 General Information

4.1 Client Information

Applicant:	Apollo Tech USA Inc.
Address of Applicant:	Tech USA Inc. 8608 Utica Ave #220 Rancho Cucamonga, CA 91730
Manufacturer:	Apollo Tech USA Inc.
Address of Manufacturer:	Tech USA Inc. 8608 Utica Ave #220 Rancho Cucamonga, CA 91730
Factory:	Hangzhou Hikvision Technology Co., Ltd. Hangzhou Hikvision Electronics Co., Ltd.
Address of Factory:	1. No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy,Zhejiang, 310052, China 2. No.299, Qiushi Road,Tonglu Economic Development Zone,Tonglu County, Hangzhou,Zhejiang,310052,China.

4.2 General Description of E.U.T.

Product Description:	Fixed product with 5GHz WiFi function	
Rated Input:	DC 5V via adapter	
Test Voltage:	AC 120V 60Hz for adapter	

Parameter of adapter:

•				
	Manufacturer:	Mass Power	r Electronic Limited	
	Model No.:	ED1-050100UA		
	Rated Input:	AC 100~240V, 50/60Hz 0.2A		
Adapter:	Rated Output:	DC 5V 1.0A		
	Cable langth:	AC port:	2 wires	
	Cable length:	DC port:	250 cm	

4.3 Technical Specifications

Operation Frequency:	802.11a/n(HT20)/ac(HT20): 5180-5240MHz, 5745MHz-5825MHz 802.11n(HT40)/ac(HT40): 5190-5230MHz, 5755MHz-5795MHz 802.11ac(HT80): 5210MHz, 5775MHz
Modulation Technique:	OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) Remark: 256QAM for 802.11 ac only
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0-7 802.11ac: MCS0-9
Number of Channel:	802.11 a/n(HT20)/ac(HT20): 9 Channel 36, 40, 44, 48, 149, 153, 157, 161, 165 802.11 n(HT40)/ac(HT40): 4 Channel 38, 46, 151, 159 802.11 ac(HT80): 2 Channel 42, 155
Antenna Type	PIFA
Antenna Gain	0.4 dBi

4.4 Test Mode

Test Mode	Description of Test Mode
Engineering mode	Using test software to control EUT working in continuous transmitting, and select channel and modulation type.



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4.5 Test Channel

Preliminary tests were performed in all tests in different data rata and antenna configurations at lowest channel, the data rates of worse case as below were chosen for final test.

Chann	channel, the data rates of worse case as below were chosen for final test.								
Band	802.11a		802.11 n(HT20)			802.11n(HT40)			
Danu	Channel	Freq	Rate	Chan	Freq	Rate	Channel	Freq	Rate
	36	5180	6 Mbps	36	5180	MSC0	38	5190	MSC0
U-NII 1	44	5220	6 Mbps	44	5220	MSC0	-	-	-
	48	5240	6 Mbps	48	5240	MSC0	46	5230	MSC0
	149	5745	6 Mbps	149	5745	MSC0	151	5755	MSC0
U-NII 3	157	5785	6 Mbps	157	5785	MSC0	-	•	-
	165	5825	6Mbps	165	5825	MSC0	159	5795	MSC0
Band	802.11ac(HT20)		802.11 ac(HT40)		802.11ac(HT80)				
Danu	Channel	Freq	Rate	Chan	Freq	Rate	Channel	Freq	Rate
	36	5180	MSC0	38	5190	MSC0	42	5210	MSC0
U-NII 1	44	5220	MSC0	-	-	-	-	-	-
	48	5240	MSC0	46	5230	MSC0			
	149	5745	MSC0	151	5755		155	5775	MSC0
U-NII 3	157	5785	MSC0	-	-	-	-	-	-
	165	5825	MSC0	159	5795	MSC0	-	-	-

4.6 Description of Support Units

The EUT has been tested with support equipments as below.

Description	Manufacturer	Model No.	Supplied By
Laptop	Lenovo	ThinkPad X100e	SGS
Serial port adapter plate	/	Test Plate 3	SGS

Software name	Manufacturer	Version	Supplied By
SecureCRT	VanDyke	V 6.2.0	SGS



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4.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

No.588 West Jindu Road, Songjiang District, Shanghai, China.201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC - Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively.

4.9 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	< ±1 x 10 ⁻⁵
2	Total RF power, conducted	< ±1.5 dB
3	RF power density, conducted	< ±3 dB
4	Spurious emissions, conducted	< ±3 dB
5	All emissions, radiated	< ±6 dB (30MHz – 1GHz) < ±6 dB (above 1GHz)
6	Temperature	< ±1°C
7	Humidity	< ±5 %
8	DC and low frequency voltages	< ±3 %



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5 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	Power meter	Rohde & Schwarz	NRP	101641	2017-01-14	2018-01-13
2	Power Sensor	Rohde & Schwarz	NRP-Z22	101096	2016-08-06	2017-08-05
3	Spectrum Analyzer	Rohde & Schwarz	FSP-30	2705121009	2017-01-14	2018-01-13
4	EMI test receiver	Rohde & Schwarz	ESU40	100109	2017-02-13	2018-01-15
5	Active Loop Antenna (9kHz to 30MHz)	Rohde & Schwarz	FMZB1519	1519-034	2017-02-13	2018-01-15
6	Broadband UHF-VHF ANTENNA (25MHz to 2GHz)	SCHWARZBECK	VULB9168	9168-313	2017-02-13	2018-01-15
7	Ultra broadband antenna (25MHz to3GHz)	Rohde & Schwarz	HL562	100227	2016-08-30	2017-08-29
8	Horn Antenna (1GHz to 18GHz)	Rohde & Schwarz	HF906	100284	2017-02-13	2018-01-15
9	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	9120D-679	2017-02-13	2018-01-15
10	Horn Antenna(14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	BBHA917-0373	2017-02-13	2018-01-15
11	Pre-amplifier (9KHz – 2GHz)	LNA6900	TESEQ	71033	/	/
12	Pre-amplifier (1GHz – 26.5GHz)	SCHWARZBECK	SCU-F0118- G40-BZ4- CSS(F)	10001	2017-01-14	2018-01-13
13	Pre-amplifie (14GHz – 40GHz)	SCHWARZBECK	SCU-F1840- G35-BZ3- CSS(F)	10001	2017-01-14	2018-01-13
14	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT800.0/880	170397 169777 169780 192507	/	/
15	High pass Filter	FSCW	HP 12/2800- 5AA2	19A45-02	/	/
16	High-low temperature cabinet	Suzhou Zhihe	TL-40	50110050	2016-09-11	2017-09-10
17	AC power stabilizer	WOCEN	6100	51122	2017-01-14	2018-01-13
18	DC power	QJE	QJ30003SII	3573/4/3	2017-01-14	2018-01-13
19	Signal Generator (Interferer)	Rohde & Schwarz	SMR40	100555	2016-08-13	2017-08-12
20	Signal Generator (Blocker)	Rohde & Schwarz	SMJ100A	101394	2017-01-14	2018-01-13
21	Splitter	Anritsu	MA1612A	M12265	/	/
22	Coupler	e-meca	803-S-1	900-M01	1	/



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6 Test Results

6.1 E.U.T. Test Conditions

Requirements:

15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:

	, ,
Temperature:	20.0 -25.0 °C
Humidity:	35-75 % RH
Atmospheric Pressure:	99.2 -102.0 kPa

Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. if required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which	Number of	Location in the range of
device operates	frequencies	operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top. 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported



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6.2 Antenna Requirement

Standard requirement:

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

This requirement does not apply to carrier current devices. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is PIFA Antenna. The gain is less than 0.4 dBi.





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6.3 Conducted Emissions on Mains Terminals

Frequency Range: 150 KHz to 30 MHz

Class/Severity: Class B

Limit:

Frequency range	Class B Limits: dB (µV)				
MHz	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

Note1: The limit decreases linearly with the logarithm of the frequency in the range

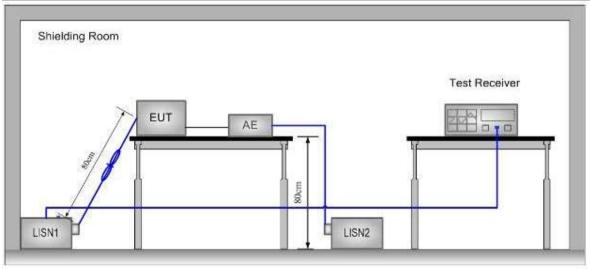
0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test site/setup: Test ins

Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
9KHz to 150Hz	Quasi-peak	200Hz	500Hz
150KHz to 30MHz	Quasi-peak	9kHz	30kHz



Ground Reference Plane

Test Procedure:

- a) The mains terminal disturbance voltage was measured with the EUT in a shielded room.
- b) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
- c) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- d) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to

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the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Pretest under all modes; choose the worst case mode (802.11a in Middle channel) record on the report. Please see the attached Quasi-peak and Average test results.

Test Result: Pass

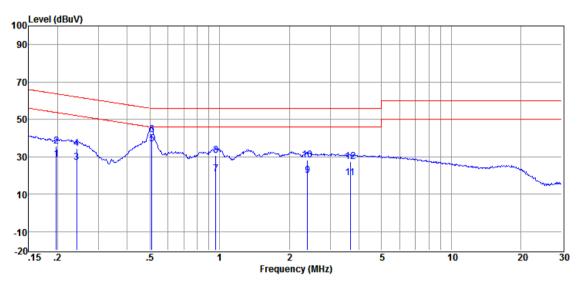


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Test Data:

Test Mode:	802.11a	Test Channel:	Channel 157
Test Port:	AC Live Line		



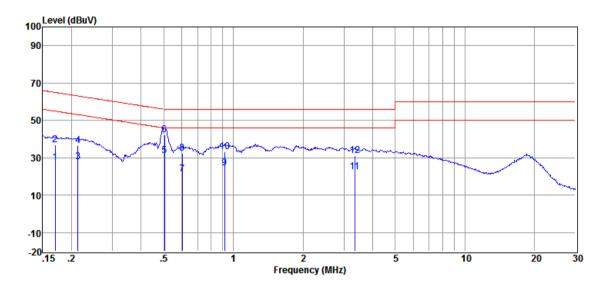
Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.198	18.86	0.09	9.81	28.76	53.71	-24.95	Average
2	0.198	25.95	0.09	9.81	35.85	63.71	-27.86	QP
3	0.242	16.92	0.09	9.81	26.82	52.04	-25.22	Average
4	0.242	24.58	0.09	9.81	34.48	62.04	-27.56	QP
5	0.510	26.84	0.10	9.82	36.76	46.00	-9.24	Average
6	0.510	31.93	0.10	9.82	41.85	56.00	-14.15	QP
7	0.963	10.85	0.08	9.84	20.77	46.00	-25.23	Average
8	0.963	20.72	0.08	9.84	30.64	56.00	-25.36	QP
9	2.396	9.85	0.09	9.85	19.79	46.00	-26.21	Average
10	2.396	18.42	0.09	9.85	28.36	56.00	-27.64	QP
11	3.661	8.63	0.13	9.85	18.61	46.00	-27.39	Average
12	3.661	17.26	0.13	9.85	27.24	56.00	-28.76	QP



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Test Port: AC Neutral Line



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.170	17.58	0.05	9.81	27.44	54.94	-27.50	Average
2	0.170	27.19	0.05	9.81	37.05	64.94	-27.89	QP
3	0.213	17.99	0.05	9.81	27.85	53.10	-25.25	Average
4	0.213	26.53	0.05	9.81	36.39	63.10	-26.71	QP
5	0.505	21.41	0.04	9.82	31.27	46.00	-14.73	Average
6	0.505	32.22	0.04	9.82	42.08	56.00	-13.92	QP
7	0.601	11.33	0.05	9.82	21.20	46.00	-24.80	Average
8	0.601	22.31	0.05	9.82	32.18	56.00	-23.82	QP
9	0.918	14.46	0.05	9.83	24.34	46.00	-21.66	Average
10	0.918	23.50	0.05	9.83	33.38	56.00	-22.62	QP
11	3.346	12.68	0.13	9.85	22.66	46.00	-23.34	Average
12	3.346	21.14	0.13	9.85	31.12	56.00	-24.88	QP

Remark: Level = Read Level + LISN/ISN Factor + Cable Loss.



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6.4 Duty Cycle

In order to assist with the determination of the average level of fundamental and spurious emissions field strength, measurements were made of duty cycle to determine the transmission duration and the silent period time of the transmitter. The transmitter duty cycle was measured using a spectrum analyser in the time domain and calculated by using the following calculation:

Duty cycle= T on time / Period

Duty factor = 10 * log (1/Duty cycle)

If duty cycle of test signal is > 98%, duty factor is not required.

If duty cycle of test signal is < 98%, duty factor shall be considered.

Test Data:



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6.5 Emission Bandwidth

Test Configuration:

EUT cable Spectrum
(Antenna Port Analyzer

Test Procedure:

- a) Place the EUT on the table and set it in transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- c) Set the spectrum analyzer as RBW= approximately 1% of the emission bandwidth or 100KHz(for 5.725-5.85 GHz band), VBW≥3* RBW, Span=40/80/160MHz, Sweep=auto couple
- d) Mark the peak frequency and -6dB (upper and lower) frequency.
- e) Repeat above procedures until all frequency measured was complete.

Limit: ≥ 500 kHz (For 5.725-5.85 GHz band)

Test Result: Pass

Test Data:



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6.6 Maximum Conducted output power

Test Setup:

Connected cable Spectrum Analyzer

Test Procedure:

- a) Place the EUT on the table and set it in transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.
- c) Set the spectrum analyzer as RBW=1MHz, VBW≥3* RBW, Span=40/80MHz, Sweep=auto, Detector = RMS
- d) Set the occur band to the entire emission 26dB bandwidth of the signal.
- e) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- f) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 26dB occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges.
- g) Record the max. Power channel reading.
- h) Repeat above procedures until all the frequency measured were complete.

Test Limit:

Frequency Band	EUT Category	Limit		
		1W(30dBm)		
	Outdoor Access Point	The maximum e.i.r.p≤125 mW(21 dBm)		
		at any elevation angle above 30		
		degrees as measured from the horizon.		
U-NII-1	☐ Fixed Point-to-point			
	Access Point	1W(30dBm)		
	☐ Mobile and Portable	250mW (24dBm)		
	client device	23011111 (2400111)		
U-NII-2a		Lesser of 250mW (24dBm) or 11dBm +		
U-NII-2c	-	10log B*		
U-NII-3		1W (30dBm)		
Note1: *Where B is the 26dB emission bandwidth in MHz.				

Test Result:

Pass

Test Data:

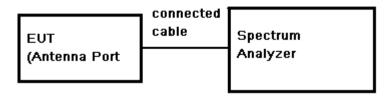


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6.7 Peak Power Spectral Density

Test Setup:



Test Procedure:

- a) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- b) 5.15GHz-5.25GHz set span ≥ 1.5*OBW; RBW = 1 MHz; VBW ≥ 3 MHz,5.725GHz-5.85GHz, set span ≥ 1.5*OBW; RBW = 0.51 MHz; VBW ≥ 1.5 MHz
- c) Number of points in sweep ≥ 2 Span / RBW; Sweep time = auto.
- d) Detector = RMS, Trigger = Free run Record the marker level for the particular mode.
- e) Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- f) Repeat these steps for other channel and device modes.

Test Limit:

1) Repeat these steps for earlier sharmer and device medical					
Frequency Band	EUT Category	Limit			
	Outdoor Access Point	17dBm/MHz			
LI NIII 4	☐ Fixed Point-to-point Access Point	44 dDm/MU=			
U-NII-1	☐ Indoor Access Point	11 dBm/MHz			
	☐ Mobile and Portable client device	11 dBm/MHz			
U-NII-2a		11 dBm/MHz			
U-NII-2c	-	I I UDIII/IVITIZ			
U-NII-3		30 dBm/500KHz			

Test Result:

Pass

Test Data:



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6.8 Radiated Spurious Emissions and Band-edge

Test site/setup: Measurement Distance: 3m
Test instrumentation set-up:

Frequency Range(MHz)	Detector	RBW	VBW
0.009-0.090	Peak	10kHz	30kHz
0.009-0.090	Average	10kHz	30kHz
0.090-0.110	Quasi-peak	10kHz	30kHz
0.110-0.490MHz	Peak	10kHz	30kHz
0.110-0.490	Average	10kHz	30kHz
0.490 -30	Quasi-peak	10kHz	30kHz
30-1000	Quasi-peak	100kHz	300kHz
Above 1000	Peak	RBW=1MHz	VBW≥RBW
Above 1000	Average	KDVV=1IVIMZ	VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency(MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)
0.009-0.490	2400/F(KHz)	128.5 ~ 93.8
0.490-1.705	24000/F(KHz)	73.8 ~63.0
1.705-30	30	69.5
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
960-1000	500	54.0
Above 1000	500	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

15.407 Limit:

Operation Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength (dBµV/m)
5150-5250		-
5250-5350	-27	68.3
5470-5725		
5725-5850	-27* ¹	68.3* ¹
3723-3830	-17* ²	78.3* ²

Note: The following formula is used to convert the EIRP to field strength $E = \frac{1000\,000\sqrt{30P}}{2}$ uV/m, where P is the EIRP (Watts).

Remark: *1 Without 10MHz of band edge; *2 Within 10MHz of band edge



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Test Setup:

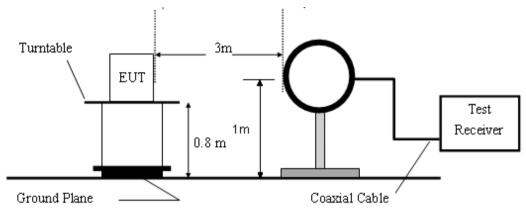


Figure 1. Below 30MHz radiated emissions test configuration

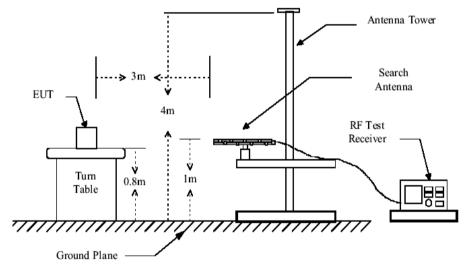


Figure 2. 30MHz to 1GHz radiated emissions test configuration

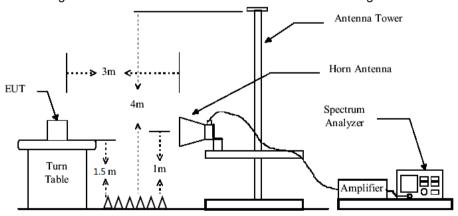


Figure 3. Above 1GHz radiated emissions test configuration



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Test Procedure:

- 1) The procedure used was ANSI Standard C63.10. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.
- Low noise amplifier was used below 1GHz, High pass Filter and amplifier was used above 3GHz. We did not use any amplifier or filter between 1G and 3GHz.
- 3) Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.
 - a) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
 - b) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 4) Pretest under all modes during 30MHz to 1GHz; choose the worst case mode (Middle channel of 802.11a on band 1) record on the report.
- 5) No spurious emissions were detected within 20dB of limit below 30MHz.

Test Result: Pass



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6.8.1 Radiated Spurious Emissions

30MHz-1GHz:

802.11 a Channel: 149 of Antenna 1

Item	Freq.	Read	Antenna	Preamp Factor	Cable		Limit	Over Limit	Detector	Polarization
	-	Level	Factor	racioi	Loss	Level	Line	Limit		
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		
1	160.91	57.66	12.93	42.56	0.64	28.67	43.50	-14.83	QP	Horizontal
2	193.09	56.25	10.00	42.50	0.68	24.43	43.50	-19.07	QP	Horizontal
3	258.33	61.93	11.79	42.41	0.78	32.09	46.00	-13.91	QP	Horizontal
4	290.02	54.57	12.87	42.35	0.83	25.92	46.00	-20.08	QP	Horizontal
5	355.43	54.20	14.31	42.19	0.92	27.24	46.00	-18.76	QP	Horizontal
6	386.63	56.83	14.87	42.12	0.97	30.55	46.00	-15.45	QP	Horizontal
1	35.25	50.66	15.86	42.68	0.20	24.04	40.00	-15.96	QP	Vertical
2	128.56	50.07	12.43	42.63	0.57	20.44	43.50	-23.06	QP	Vertical
3	160.91	55.90	12.93	42.56	0.64	26.91	43.50	-16.59	QP	Vertical
4	193.09	59.11	10.00	42.50	0.68	27.29	43.50	-16.21	QP	Vertical
5	225.31	52.23	10.51	42.46	0.73	21.01	46.00	-24.99	QP	Vertical
6	257.42	60.58	11.76	42.42	0.78	30.70	46.00	-15.30	QP	Vertical

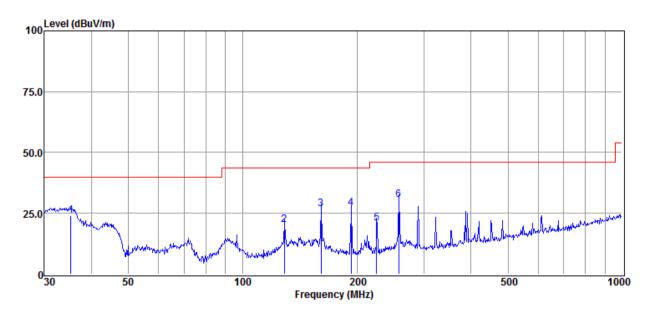
Remark: 1. Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



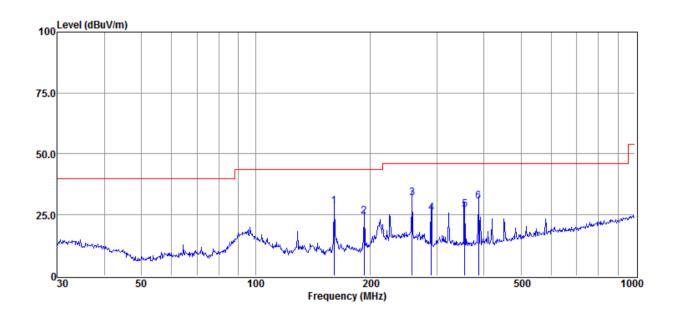
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Below is the plot of worst case: Vertical:



Horizontal:





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Above 1GHz

802.11a Channel: 36

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6418	40.28	8.14	48.42	54	-5.58	peak	Horizontal
2	9505	36.49	14.42	50.91	54	-3.09	peak	Horizontal
3	10360	32.93	14.28	47.21	54	-6.79	peak	Horizontal
4	7627.6	37.96	12.02	49.98	54	-4.02	peak	Vertical
5	10360	30.59	14.28	44.87	54	-9.13	peak	Vertical
6	13096	34.86	15.33	50.19	54	-3.81	peak	Vertical

802.11a Channel: 44

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7753.6	36.52	12.21	48.73	54	-5.27	peak	Horizontal
2	9517.6	34.35	14.41	48.76	54	-5.24	peak	Horizontal
3	10400	29.84	14.22	44.06	54	-9.94	peak	Horizontal
4	6342.4	42.37	7.84	50.21	54	-3.79	peak	Vertical
5	9555.4	37.04	14.39	51.43	54	-2.57	peak	Vertical
6	10400	30.46	14.22	44.68	54	-9.32	peak	Vertical

802.11a Channel: 48

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization	
1	9542.8	34.5	14.41	48.91	54	-5.09	peak	Horizontal	
2	10480	35.06	14.08	49.14	54	-4.86	peak	Horizontal	
3	13058.2	33.85	15.25	49.1	54	-4.9	peak	Horizontal	
4	6405.4	41.48	8.09	49.57	54	-4.43	peak	Vertical	
5	9605.8	36.49	14.38	50.87	54	-3.13	peak	Vertical	
6	10480	34.93	14.08	49.01	54	-4.99	peak	Vertical	

802.11a Channel: 149

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9505	34.13	14.42	48.55	54	-5.45	peak	Horizontal
2	11490	34.55	14.41	48.96	54	-5.04	peak	Horizontal
3	13096	35.3	15.33	50.63	54	-3.37	peak	Horizontal
4	6418	42.31	8.14	50.45	54	-3.55	peak	Vertical
5	7867	37.44	12.37	49.81	54	-4.19	peak	Vertical
6	11490	35.28	14.41	49.69	54	-4.31	peak	Vertical



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802.11a Channel: 157

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6418	42.78	8.14	50.92	54	-3.08	peak	Horizontal
2	11570	32.17	14.25	46.42	54	-7.58	peak	Horizontal
3	13234.6	36.26	15.61	51.87	54	-2.13	peak	Horizontal
4	6518.8	41.16	8.45	49.61	54	-4.39	peak	Vertical
5	9580.6	36.36	14.39	50.75	54	-3.25	peak	Vertical
6	11570	32.04	14.25	46.29	54	-7.71	peak	Vertical

802.11a Channel: 165

	0.000.000							
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7816.6	37.22	12.29	49.51	54	-4.49	peak	Horizontal
2	11650	34.17	14.06	48.23	54	-5.77	peak	Horizontal
3	13259.8	36.03	15.66	51.69	54	-2.31	peak	Horizontal
4	6418	39.98	8.14	48.12	54	-5.88	peak	Vertical
5	9605.8	36.71	14.38	51.09	54	-2.91	peak	Vertical
6	11650	35.36	14.06	49.42	54	-4.58	peak	Vertical

802.11 n(HT20) Channel: 36

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6405.4	42.61	8.09	50.7	54	-3.3	peak	Horizontal
2	9505	35.74	14.42	50.16	54	-3.84	peak	Horizontal
3	10360	32.18	14.28	46.46	54	-7.54	peak	Horizontal
4	6468.4	43.21	8.31	51.52	54	-2.48	peak	Vertical
5	10360	35.27	14.28	49.55	54	-4.45	peak	Vertical
6	11836	36.21	13.74	49.95	54	-4.05	peak	Vertical

802.11 n(HT20) Channel: 44

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7665.4	36.72	12.07	48.79	54	-5.21	peak	Horizontal
2	9631	36.74	14.36	51.1	54	-2.9	peak	Horizontal
3	10400	32.74	14.22	46.96	54	-7.04	peak	Horizontal
4	7375.6	37.54	11.37	48.91	54	-5.09	peak	Vertical
5	10400	31.06	14.22	45.28	54	-8.72	peak	Vertical
6	12970	36.15	15.07	51.22	54	-2.78	peak	Vertical



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802.11 n(HT20) Channel: 48

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization		
1	6329.8	42.14	7.79	49.93	54	-4.07	peak	Horizontal		
2	7287.4	37.62	10.98	48.6	54	-5.4	peak	Horizontal		
3	10480	34.25	14.08	48.33	54	-5.67	peak	Horizontal		
4	7879.6	39.07	12.39	51.46	54	-2.54	peak	Vertical		
5	10480	33.24	14.08	47.32	54	-6.68	peak	Vertical		
6	12730.6	35.69	14.42	50.11	54	-3.89	peak	Vertical		

802.11 n(HT20) Channel: 149

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6342.4	42.07	7.84	49.91	54	-4.09	peak	Horizontal
2	9353.8	37.03	14.34	51.37	54	-2.63	peak	Horizontal
3	11490	33.75	14.41	48.16	54	-5.84	peak	Horizontal
4	8383.6	38.43	11.93	50.36	54	-3.64	peak	Vertical
5	11490	31.3	14.41	45.71	54	-8.29	peak	Vertical
6	11722.6	37.7	13.89	51.59	54	-2.41	peak	Vertical

802.11 n(HT20) Channel: 157

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7287.4	37.87	10.98	48.85	54	-5.15	peak	Horizontal
2	9668.8	36.02	14.36	50.38	54	-3.62	peak	Horizontal
3	11570	37.71	14.25	51.96	54	-2.04	peak	Horizontal
4	8484.4	38.87	12.12	50.99	54	-3.01	peak	Vertical
5	11570	31.71	14.25	45.96	54	-8.04	peak	Vertical
6	11735.2	37.32	13.87	51.19	54	-2.81	peak	Vertical

802.11 n(HT20) Channel: 165

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7438.6	39.07	11.64	50.71	54	-3.29	peak	Horizontal
2	9568	36.34	14.4	50.74	54	-3.26	peak	Horizontal
3	11650	33.36	14.06	47.42	54	-6.58	peak	Horizontal
4	6468.4	42.59	8.31	50.9	54	-3.1	peak	Vertical
5	7312.6	39.49	11.09	50.58	54	-3.42	peak	Vertical
6	11650	34.62	14.06	48.68	54	-5.32	peak	Vertical



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802.11 n(HT40) Channel: 38

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6468.4	39.86	8.31	48.17	54	-5.83	peak	Horizontal
2	9618.4	35.47	14.37	49.84	54	-4.16	peak	Horizontal
3	10380	32.74	14.25	46.99	54	-7.01	peak	Horizontal
4	6405.4	41.99	8.09	50.08	54	-3.92	peak	Vertical
5	9517.6	35.24	14.41	49.65	54	-4.35	peak	Vertical
6	10380	34.51	14.25	48.76	54	-5.24	peak	Vertical

802.11 n(HT40) Channel: 46

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization	
1	7426	40.23	11.58	51.81	54	-2.19	peak	Horizontal	
2	10460	33.15	14.11	47.26	54	-6.74	peak	Horizontal	
3	11710	36.58	13.92	50.5	54	-3.5	peak	Horizontal	
4	7665.4	36.22	12.07	48.29	54	-5.71	peak	Vertical	
5	9605.8	35.61	14.38	49.99	54	-4.01	peak	Vertical	
6	10460	31.67	14.11	45.78	54	-8.22	peak	Vertical	

802.11 n(HT40) Channel: 151

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9593.2	36.8	14.38	51.18	54	-2.82	peak	Horizontal
2	11510	33.28	14.4	47.68	54	-6.32	peak	Horizontal
3	11760.4	34.79	13.8	48.59	54	-5.41	peak	Horizontal
4	6342.4	43.54	7.84	51.38	54	-2.62	peak	Vertical
5	7879.6	36.98	12.39	49.37	54	-4.63	peak	Vertical
6	11510	31.64	14.4	46.04	54	-7.96	peak	Vertical

802.11 n(HT40) Channel: 159

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6405.4	41.79	8.09	49.88	54	-4.12	peak	Horizontal
2	7665.4	37.18	12.07	49.25	54	-4.75	peak	Horizontal
3	11590	32.35	14.2	46.55	54	-7.45	peak	Horizontal
4	5422.6	40.51	7.25	47.76	54	-6.24	peak	Vertical
5	7867	37.72	12.37	50.09	54	-3.91	peak	Vertical
6	11590	32.1	14.2	46.3	54	-7.7	peak	Vertical



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802.11 ac(VHT20) Channel: 36

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7627.6	38.19	12.02	50.21	54	-3.79	peak	Horizontal
2	9593.2	36.52	14.38	50.9	54	-3.1	peak	Horizontal
3	10360	31.74	14.28	46.02	54	-7.98	peak	Horizontal
4	6418	41.8	8.14	49.94	54	-4.06	peak	Vertical
5	7665.4	35.76	12.07	47.83	54	-6.17	peak	Vertical
6	10360	31.47	14.28	45.75	54	-8.25	peak	Vertical

802.11 ac(VHT20) Channel: 40

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7438.6	37.07	11.64	48.71	54	-5.29	peak	Horizontal
2	9694	35.27	14.34	49.61	54	-4.39	peak	Horizontal
3	10400	31.54	14.22	45.76	54	-8.24	peak	Horizontal
4	6594.4	40.06	8.55	48.61	54	-5.39	peak	Vertical
5	7879.6	36.33	12.39	48.72	54	-5.28	peak	Vertical
6	10400	34.01	14.22	48.23	54	-5.77	peak	Vertical

802.11 ac(VHT20) Channel: 48

	55=111 HIQ1111=0)									
Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization		
1	7892.2	36.15	12.42	48.57	54	-5.43	peak	Horizontal		
2	9517.6	35.1	14.41	49.51	54	-4.49	peak	Horizontal		
3	10480	30.73	14.08	44.81	54	-9.19	peak	Horizontal		
4	6493.6	42.22	8.4	50.62	54	-3.38	peak	Vertical		
5	9530.2	36.33	14.4	50.73	54	-3.27	peak	Vertical		
6	10480	31.05	14.08	45.13	54	-8.87	peak	Vertical		

802.11 ac(VHT20) Channel: 149

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7930	37.58	12.3	49.88	54	-4.12	peak	Horizontal
2	11490	30.83	14.41	45.24	54	-8.76	peak	Horizontal
3	13121.2	35.32	15.38	50.7	54	-3.3	peak	Horizontal
4	7526.8	37.46	11.92	49.38	54	-4.62	peak	Vertical
5	9492.4	36.5	14.42	50.92	54	-3.08	peak	Vertical
6	11490	33.93	14.41	48.34	54	-5.66	peak	Vertical



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802.11 ac(VHT20) Channel: 157

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7892.2	36.99	12.42	49.41	54	-4.59	peak	Horizontal
2	9530.2	34.55	14.4	48.95	54	-5.05	peak	Horizontal
3	11570	35.1	14.25	49.35	54	-4.65	peak	Horizontal
4	9542.8	36.41	14.41	50.82	54	-3.18	peak	Vertical
5	11570	32.42	14.25	46.67	54	-7.33	peak	Vertical
6	13133.8	35.01	15.4	50.41	54	-3.59	peak	Vertical

802.11 ac(VHT20) Channel: 165

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization		
1	6468.4	40.07	8.31	48.38	54	-5.62	peak	Horizontal		
2	9366.4	35.43	14.36	49.79	54	-4.21	peak	Horizontal		
3	11650	33.84	14.06	47.9	54	-6.1	peak	Horizontal		
4	9605.8	36.84	14.38	51.22	54	-2.78	peak	Vertical		
5	11650	33.01	14.06	47.07	54	-6.93	peak	Vertical		
6	13133.8	33.83	15.4	49.23	54	-4.77	peak	Vertical		



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802.11 ac(VHT40) Channel: 38

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6418	41.53	8.14	49.67	54	-4.33	peak	Horizontal
2	7816.6	39.68	12.29	51.97	54	-2.03	peak	Horizontal
3	10380	32.92	14.25	47.17	54	-6.83	peak	Horizontal
4	6418	40.38	8.14	48.52	54	-5.48	peak	Vertical
5	9542.8	36.55	14.41	50.96	54	-3.04	peak	Vertical
6	10380	35.01	14.25	49.26	54	-4.74	peak	Vertical

802.11 ac(VHT40) Channel: 46

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9618.4	34.33	14.37	48.7	54	-5.3	peak	Horizontal
2	10460	33.16	14.11	47.27	54	-6.73	peak	Horizontal
3	13310.2	35.13	15.87	51	54	-3	peak	Horizontal
4	6401	53.93	8.08	62.01	74	-11.99	peak	Vertical
5	8645	47.48	12.6	60.08	74	-13.92	peak	Vertical
6	10460	47.13	14.11	61.24	74	-12.76	peak	Vertical

802.11 ac(VHT40) Channel: 151

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7791.4	38.46	12.26	50.72	54	-3.28	peak	Horizontal
2	9580.6	34.88	14.39	49.27	54	-4.73	peak	Horizontal
3	11510	35.62	14.4	50.02	54	-3.98	peak	Horizontal
4	6418	41.8	8.14	49.94	54	-4.06	peak	Vertical
5	7375.6	38.29	11.37	49.66	54	-4.34	peak	Vertical
6	11510	37.05	14.4	51.45	54	-2.55	peak	Vertical

802.11 ac(VHT40) Channel: 159

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6392.8	43.73	8.05	51.78	54	-2.22	peak	Horizontal
2	7892.2	35.95	12.42	48.37	54	-5.63	peak	Horizontal
3	11590	34.43	14.2	48.63	54	-5.37	peak	Horizontal
4	9505	35.87	14.42	50.29	54	-3.71	peak	Vertical
5	10563.4	37.37	14.05	51.42	54	-2.58	peak	Vertical
6	11590	31.53	14.2	45.73	54	-8.27	peak	Vertical



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802.11 ac(VHT80) Channel:42

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	6405.4	43.45	8.09	51.54	54	-2.46	peak	Horizontal
2	8308	37.36	11.78	49.14	54	-4.86	peak	Horizontal
3	10420	34.91	14.17	49.08	54	-4.92	peak	Horizontal
4	7879.6	37.72	12.39	50.11	54	-3.89	peak	Vertical
5	9593.2	34.76	14.38	49.14	54	-4.86	peak	Vertical
6	10420	36.87	14.17	51.04	54	-2.96	peak	Vertical

802.11 ac(VHT80) Channel: 155

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	7753.6	38.64	12.21	50.85	54	-3.15	peak	Horizontal
2	9505	34.55	14.42	48.97	54	-5.03	peak	Horizontal
3	11550	33.37	14.3	47.67	54	-6.33	peak	Horizontal
4	7879.6	36.79	12.39	49.18	54	-4.82	peak	Vertical
5	9542.8	36.02	14.41	50.43	54	-3.57	peak	Vertical
6	11550	34.83	14.3	49.13	54	-4.87	peak	Vertical



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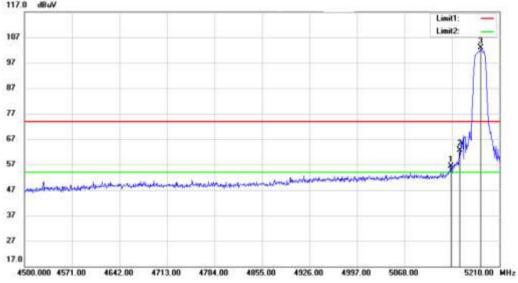
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6.8.2 Radiated Band-edge

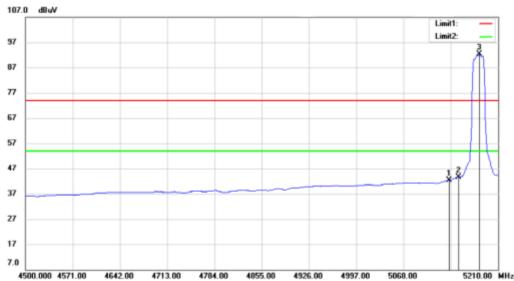
802.11 a Channel: 5180

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5137.58	49.46	6.99	56.45	74	-17.55	Peak	Horizontal
2	5150	55.66	6.92	62.58	74	-11.42	Peak	Horizontal
3	5182.31	96.12	6.75	102.87	74	28.87	Peak	Horizontal
1	5136.87	35.46	7	42.46	54	-11.54	Average	Horizontal
2	5150	36.73	6.92	43.65	54	-10.35	Average	Horizontal
3	5181.6	85.51	6.75	92.26	54	38.26	Average	Horizontal





Average





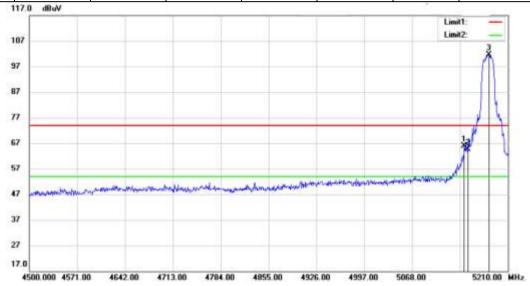
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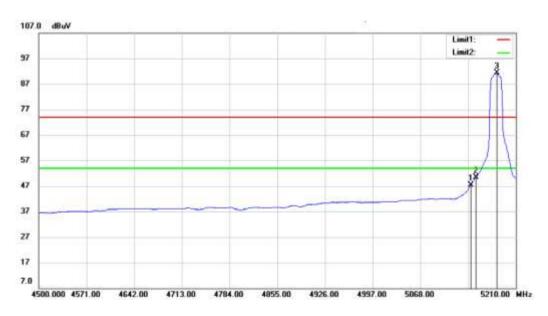
802.11 a Channel: 5180

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5145.39	58.85	6.95	65.8	74	-8.2	Peak	Vertical
2	5150	57.67	6.92	64.59	74	-9.41	Peak	Vertical
3	5181.6	94.91	6.75	101.66	74	27.66	Peak	Vertical
1	5143.26	40.53	6.96	47.49	54	-6.51	Average	Vertical
2	5150	43.47	6.92	50.39	54	-3.61	Average	Vertical
3	5181.6	84.71	6.75	91.46	54	37.46	Average	Vertical

Peak



Average





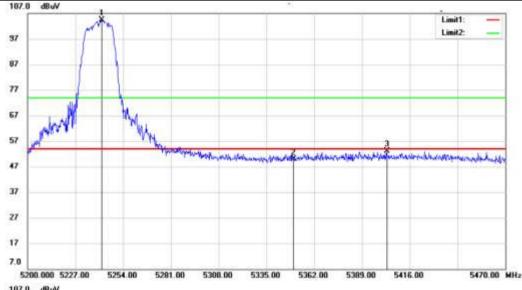
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802.11 a Channel: 5240

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5241.85	97.65	6.65	104.3	54	50.3	Peak	Horizontal
2	5350	42.84	6.98	49.82	54	-4.18	Peak	Horizontal
3	5403.04	45.86	7.31	53.17	54	-0.83	Peak	Horizontal
1	5241.31	96.49	6.65	103.14	54	49.14	Peak	Vertical
2	5350	43.92	6.98	50.9	54	-3.1	Peak	Vertical
3	5409.79	46.14	7.29	53.43	54	-0.57	Peak	Vertical

Horizontal



Vertical





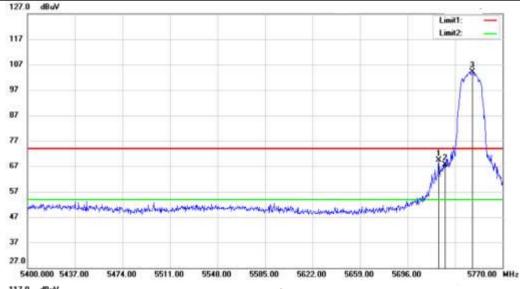
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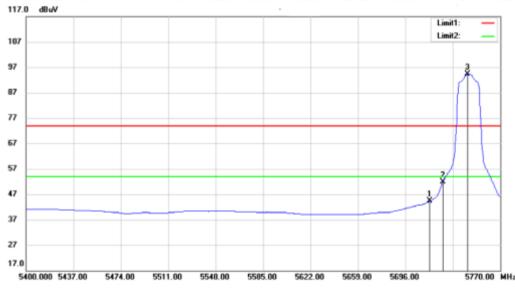
802.11 a Channel: 5745

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5720.42	62.55	6.82	69.37	74	-4.63	Peak	Horizontal
2	5725	60.91	6.82	67.73	74	-6.27	Peak	Horizontal
3	5746.69	97.37	6.77	104.14	74	30.14	Peak	Horizontal
1	5714.87	37.43	6.84	44.27	54	-9.73	Average	Horizontal
2	5725	44.96	6.82	51.78	54	-2.22	Average	Horizontal
3	5744.47	87.64	6.78	94.42	54	40.42	Average	Horizontal





Average





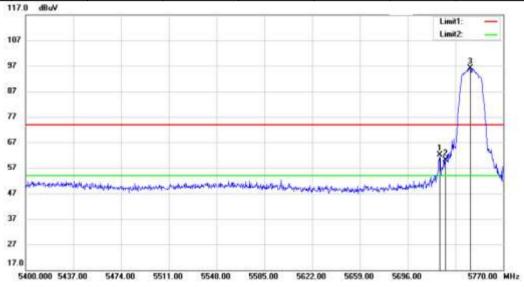
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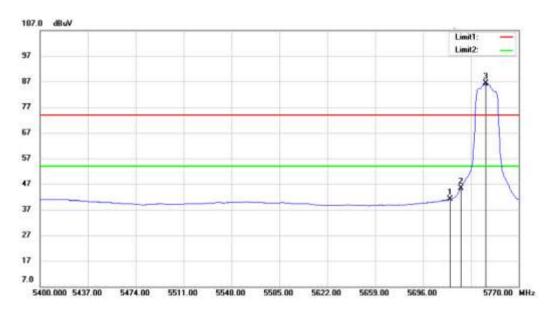
802.11 a Channel: 5745

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5720.79	55.38	6.82	62.2	74	-11.8	Peak	Vertical
2	5725	53.37	6.82	60.19	74	-13.81	Peak	Vertical
3	5744.47	89.37	6.78	96.15	74	22.15	Peak	Vertical
1	5717.09	34.31	6.84	41.15	54	-12.85	Average	Vertical
2	5725	38.66	6.82	45.48	54	-8.52	Average	Vertical
3	5744.47	79.48	6.78	86.26	54	32.26	Average	Vertical

Vertical



Average





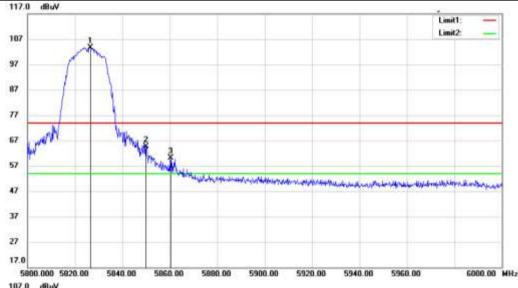
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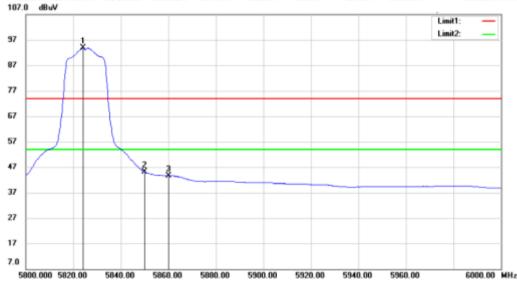
802.11 a Channel: 5825

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5826.4	97.06	6.66	103.72	74	29.72	Peak	Horizontal
2	5850	58.08	6.64	64.72	74	-9.28	Peak	Horizontal
3	5860.4	53.59	6.63	60.22	74	-13.78	Peak	Horizontal
1	5824.2	87.22	6.65	93.87	54	39.87	Average	Horizontal
2	5850	38.52	6.64	45.16	54	-8.84	Average	Horizontal
3	5860.2	37.09	6.63	43.72	54	-10.28	Average	Horizontal

Peak



Average



802.11 a Channel: 5825

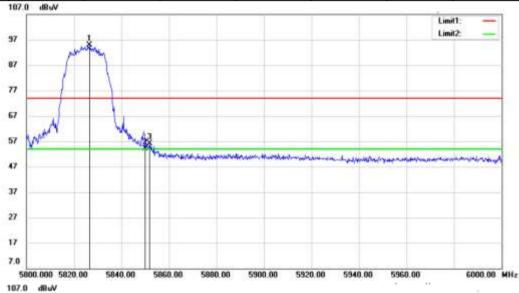


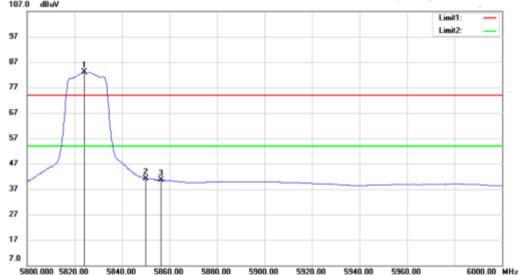
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MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5826.6	88.19	6.66	94.85	74	20.85	Peak	Vertical
2	5850	47.4	6.64	54.04	74	-19.96	Peak	Vertical
3	5851.8	49.56	6.64	56.2	74	-17.8	Peak	Vertical
1	5824.2	76.44	6.65	83.09	54	29.09	Average	Vertical
2	5850	34.57	6.64	41.21	54	-12.79	Average	Vertical
3	5856.4	33.98	6.63	40.61	54	-13.39	Average	Vertical

Peak







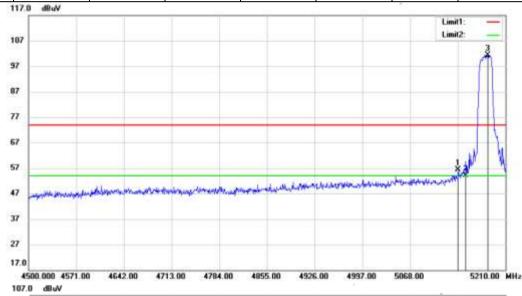
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Channel: 5180

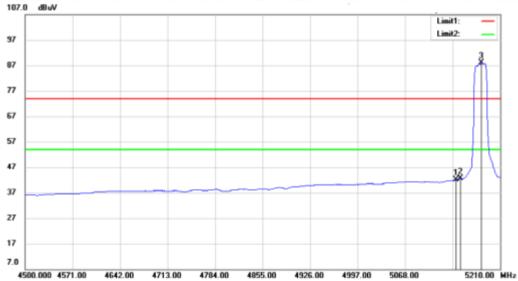
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802.11 n(HT20)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5139.71	49.35	6.98	56.33	74	-17.67	Peak	Horizontal
2	5150	47.1	6.92	54.02	74	-19.98	Peak	Horizontal
3	5183.73	94.71	6.74	101.45	74	27.45	Peak	Horizontal
1	5143.97	35.15	6.96	42.11	54	-11.89	Average	Horizontal
2	5150	35.63	6.92	42.55	54	-11.45	Average	Horizontal
3	5181.6	81.48	6.75	88.23	54	34.23	Average	Horizontal



Peak Average





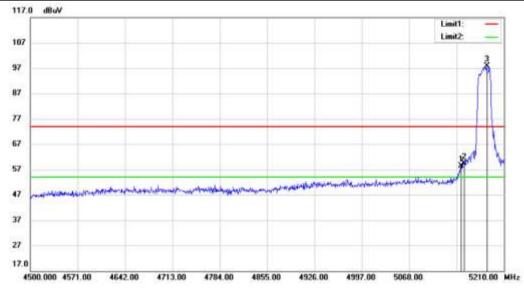
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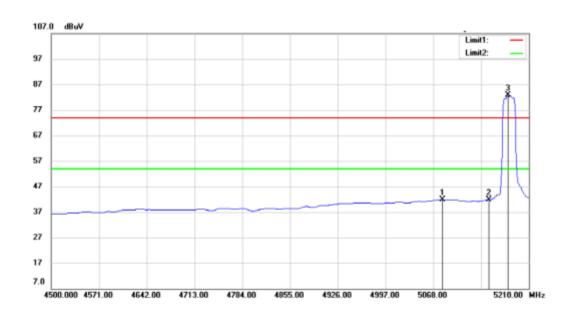
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802.11 n(HT20) Channel: 5180

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5146.1	51.42	6.94	58.36	74	-15.64	Peak	Vertical
2	5150	52.39	6.92	59.31	74	-14.69	Peak	Vertical
3	5184.44	91.04	6.74	97.78	74	23.78	Peak	Vertical
	5081.49	34.62	7.29	41.91	54	-12.09	Average	Vertical
	5150	35.03	6.92	41.95	54	-12.05	Average	Vertical
	5179.47	76.22	6.76	82.98	54	28.98	Average	Vertical

Peak





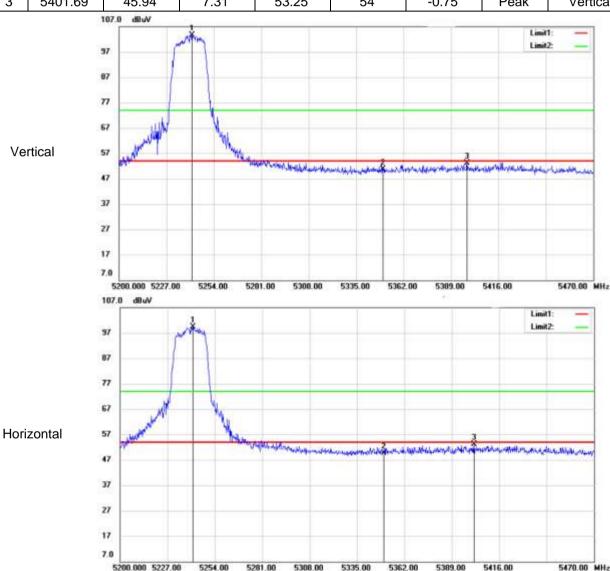


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802.11 n(HT20) Channel: 5240

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5241.58	97.05	6.65	103.7	54	49.7	Peak	Horizontal
2	5350	43.73	6.98	50.71	54	-3.29	Peak	Horizontal
3	5398.18	45.86	7.32	53.18	54	-0.82	Peak	Horizontal
1	5241.58	92.84	6.65	99.49	54	45.49	Peak	Vertical
2	5350	42.71	6.98	49.69	54	-4.31	Peak	Vertical
3	5401.69	45.94	7.31	53.25	54	-0.75	Peak	Vertical





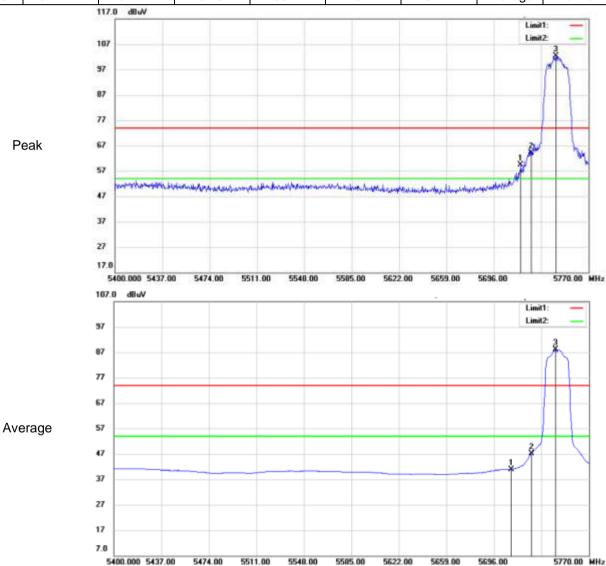
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Channel: 5745

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802.11 n(HT20)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5717.09	52.57	6.84	59.41	74	-14.59	Peak	Horizontal
2	5725	57.43	6.82	64.25	74	-9.75	Peak	Horizontal
3	5744.47	95.5	6.78	102.28	74	28.28	Peak	Horizontal
1	5709.69	34.1	6.85	40.95	54	-13.05	Average	Horizontal
2	5725	40.43	6.82	47.25	54	-6.75	Average	Horizontal
3	5744.1	81.42	6.78	88.2	54	34.2	Average	Horizontal



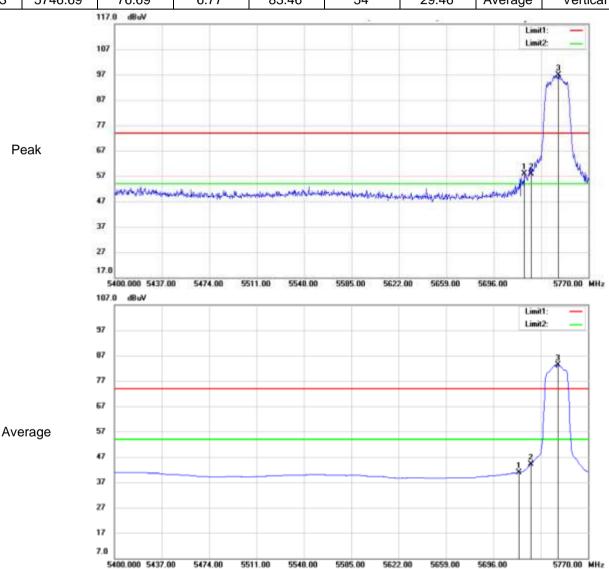


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802.11 n(HT20) Channel: 5745

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5719.68	51.05	6.82	57.87	74	-16.13	Peak	Vertical
2	5725	51.13	6.82	57.95	74	-16.05	Peak	Vertical
3	5746.32	90.08	6.77	96.85	74	22.85	Peak	Vertical
1	5715.98	34.11	6.84	40.95	54	-13.05	Average	Vertical
2	5725	37.36	6.82	44.18	54	-9.82	Average	Vertical
3	5746.69	76.69	6.77	83.46	54	29.46	Average	Vertical



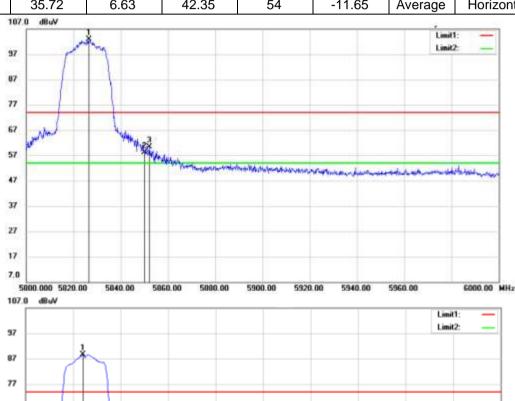


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802.11 n(HT20) Channel: 5825

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5826.4	96.21	6.66	102.87	74	28.87	Peak	Horizontal
2	5850	51.38	6.64	58.02	74	-15.98	Peak	Horizontal
3	5852	53.81	6.64	60.45	74	-13.55	Peak	Horizontal
1	5824	81.97	6.65	88.62	54	34.62	Average	Horizontal
2	5850	36.36	6.64	43	54	-11	Average	Horizontal
3	5857	35.72	6.63	42.35	54	-11.65	Average	Horizontal



Average

67

57

Peak

37 27 17 7.0 5800.000 5820.00 5840.00 5860.00 5880.00 5900.00 5920.00 5940.00 5960.00 6000.00 MHz



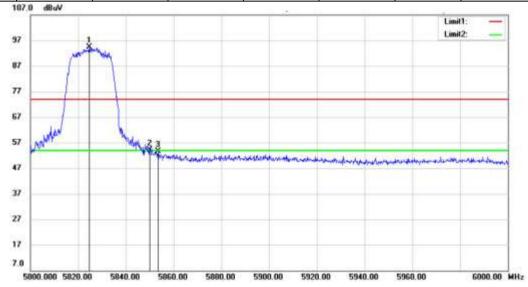
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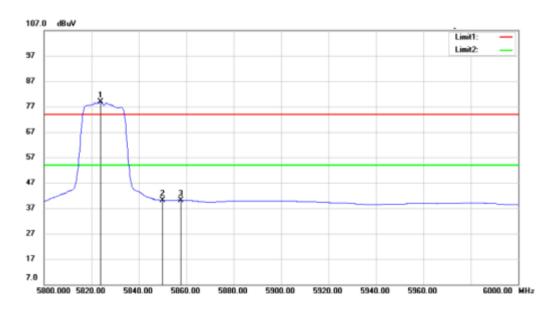
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802.11 n(HT20) Channel: 5825

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5824.6	87.79	6.65	94.44	74	20.44	Peak	Vertical
2	5850	47.38	6.64	54.02	74	-19.98	Peak	Vertical
3	5853.4	46.88	6.64	53.52	74	-20.48	Peak	Vertical
1	5823.8	72.3	6.65	78.95	54	24.95	Average	Vertical
2	5850	33.51	6.64	40.15	54	-13.85	Average	Vertical
3	5857.6	33.62	6.63	40.25	54	-13.75	Average	Vertical







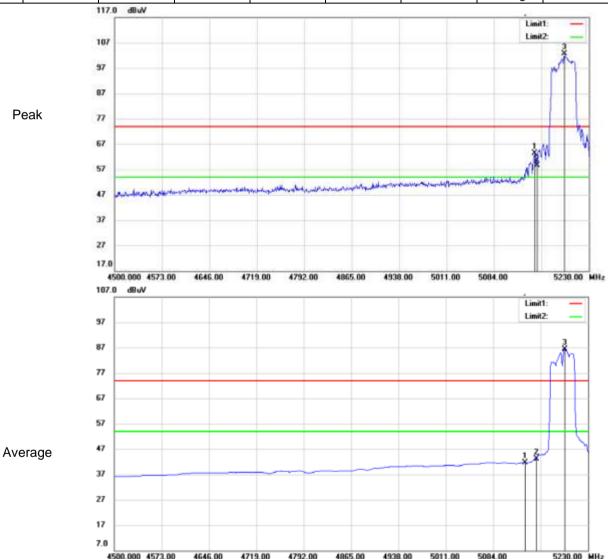


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802.11 n(HT40) Channel: 5190

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5146.78	56.32	6.94	63.26	74	-10.74	Peak	Horizontal
2	5150	51.76	6.92	58.68	74	-15.32	Peak	Horizontal
3	5192.04	95.99	6.7	102.69	74	28.69	Peak	Horizontal
1	5132.91	34.69	7.01	41.7	54	-12.3	Average	Horizontal
2	5150	36.16	6.92	43.08	54	-10.92	Average	Horizontal
3	5194.23	79.65	6.68	86.33	54	32.33	Average	Horizontal



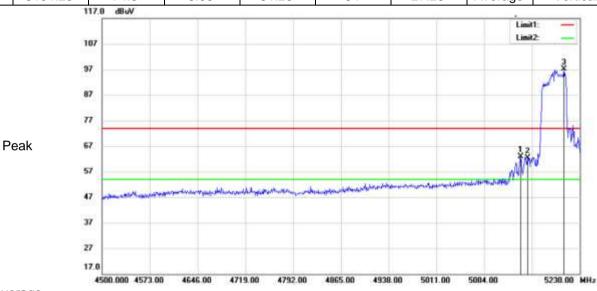


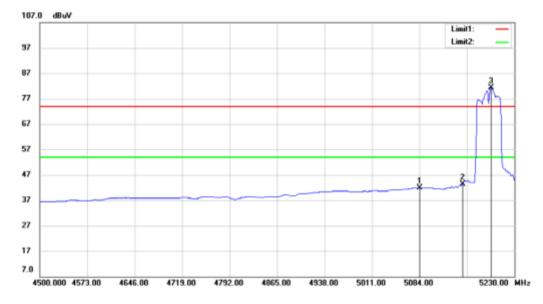
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802.11 n(HT40) Channel: 5190

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5140.21	55.91	6.98	62.89	74	-11.11	Peak	Vertical
2	5150	55.42	6.92	62.34	74	-11.66	Peak	Vertical
3	5205.91	90.43	6.65	97.08	74	23.08	Peak	Vertical
1	5084	34.67	7.28	41.95	54	-12.05	Average	Vertical
2	5150	36.47	6.92	43.39	54	-10.61	Average	Vertical
3	5194.23	74.6	6.68	81.28	54	27.28	Average	Vertical







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802.11 n(HT40) Channel: 5230

	. ,							
MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5231.32	93.82	6.65	100.47	54	46.47	Peak	Horizontal
2	5350	43.36	6.98	50.34	54	-3.66	Peak	Horizontal
3	5395.21	46.12	7.29	53.41	54	-0.59	Peak	Horizontal
1	5227.81	91.04	6.64	97.68	54	43.68	Peak	Vertical
2	5350	43.96	6.98	50.94	54	-3.06	Peak	Vertical
3	5396.29	46.13	7.29	53.42	54	-0.58	Peak	Vertical



Horizontal

Vertical





Report No.: SHEM170400212703

Channel: 5755

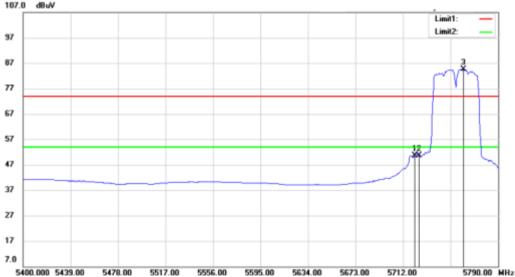
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802.11 n(HT40)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5719.41	61.29	6.82	68.11	74	-5.89	Peak	Horizontal
2	5725	62.86	6.82	69.68	74	-4.32	Peak	Horizontal
3	5758.8	92.76	6.75	99.51	74	25.51	Peak	Horizontal
1	5721.75	43.88	6.83	50.71	54	-3.29	Average	Horizontal
2	5725	43.78	6.82	50.6	54	-3.4	Average	Horizontal
3	5761.53	77.9	6.74	84.64	54	30.64	Average	Horizontal







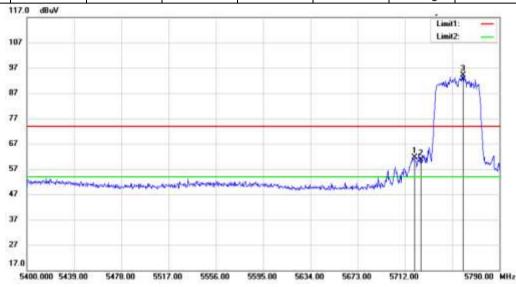


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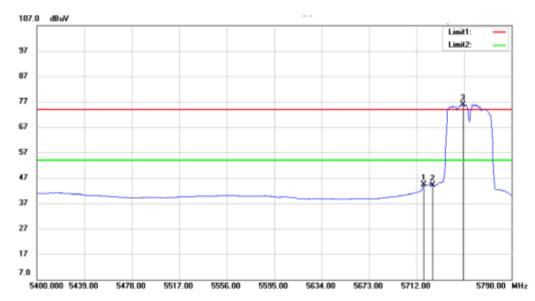
802.11 n(HT40) Channel: 5755

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5719.8	54.7	6.82	61.52	74	-12.48	Peak	Vertical
2	5725	53.69	6.82	60.51	74	-13.49	Peak	Vertical
3	5759.97	87.44	6.75	94.19	74	20.19	Peak	Vertical
1	5717.85	37.6	6.84	44.44	54	-9.56	Average	Vertical
2	5725	37.27	6.82	44.09	54	-9.91	Average	Vertical
3	5750.22	69.16	6.77	75.93	54	21.93	Average	Vertical



Average

Peak





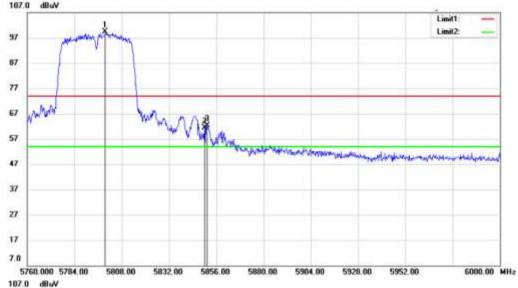
Report No.: SHEM170400212703

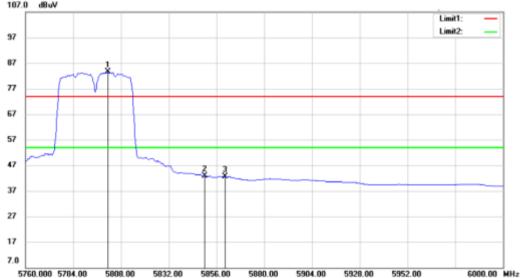
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802.11 n(HT40) Channel: 5795

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5799.6	92.61	6.67	99.28	74	25.28	Peak	Horizontal
2	5850	54.71	6.64	61.35	74	-12.65	Peak	Horizontal
3	5851.2	55.64	6.64	62.28	74	-11.72	Peak	Horizontal
1	5801.28	76.89	6.67	83.56	54	29.56	Average	Horizontal
2	5850	36.12	6.64	42.76	54	-11.24	Average	Horizontal
3	5860.32	35.97	6.63	42.6	54	-11.4	Average	Horizontal

Peak





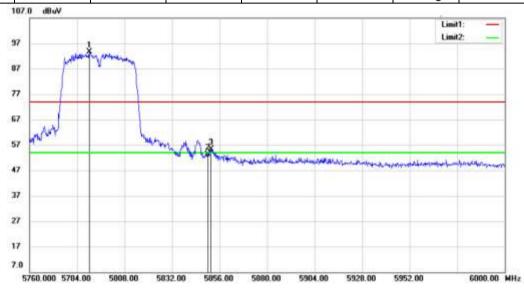


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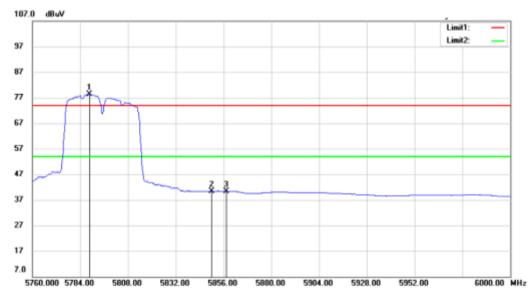
802.11 n(HT40) Channel: 5795

	, ,							
MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5790.24	86.89	6.69	93.58	74	19.58	Peak	Vertical
2	5850	46.8	6.64	53.44	74	-20.56	Peak	Vertical
3	5851.68	48.84	6.64	55.48	74	-18.52	Peak	Vertical
1	5788.56	71.66	6.69	78.35	54	24.35	Average	Vertical
2	5850	33.68	6.64	40.32	54	-13.68	Average	Vertical
3	5857.44	33.84	6.63	40.47	54	-13.53	Average	Vertical



Average

Peak





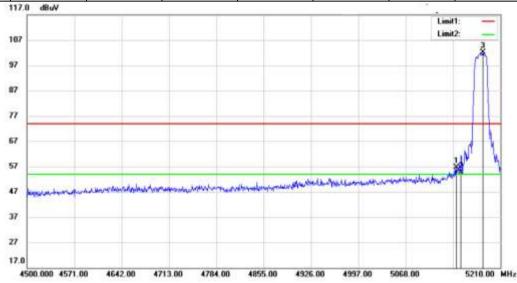
Report No.: SHEM170400212703

Channel: 5180

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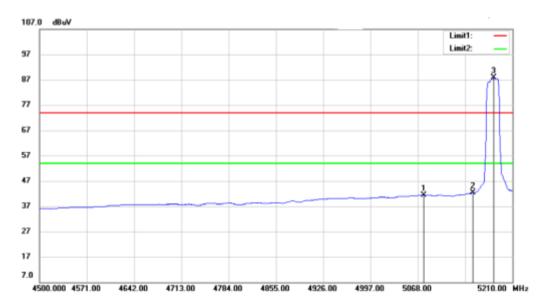
802.11 ac(VHT20)

		-,				•		-
MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5143.97	49.69	6.96	56.65	74	-17.35	Peak	Horizontal
2	5150	47.8	6.92	54.72	74	-19.28	Peak	Horizontal
3	5183.73	95.39	6.74	102.13	74	28.13	Peak	Horizontal
1	5076.52	34.14	7.32	41.46	54	-12.54	Average	Horizontal
2	5150	35.57	6.92	42.49	54	-11.51	Average	Horizontal
3	5181.6	81.23	6.75	87.98	54	33.98	Average	Horizontal



Average

Peak





Report No.: SHEM170400212703

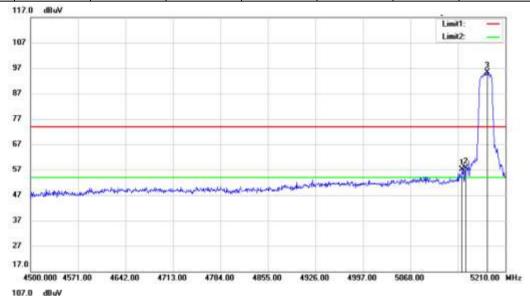
Channel: 5180

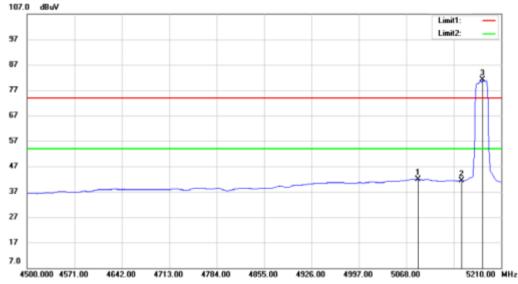
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802.11 ac(VHT20)

		-,				74 -16.81 Peak Vertical			
MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)		Detector	Polarization	
1	5145.39	50.24	6.95	57.19	74	-16.81	Peak	Vertical	
2	5150	50.83	6.92	57.75	74	-16.25	Peak	Vertical	
3	5183.02	88.57	6.74	95.31	74	21.31	Peak	Vertical	
1	5085.04	34.63	7.28	41.91	54	-12.09	Average	Vertical	
2	5150	34.44	6.92	41.36	54	-12.64	Average	Vertical	
3	5181.6	74.36	6.75	81.11	54	27.11	Average	Vertical	

Peak







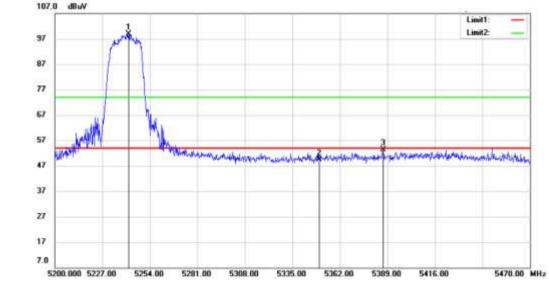
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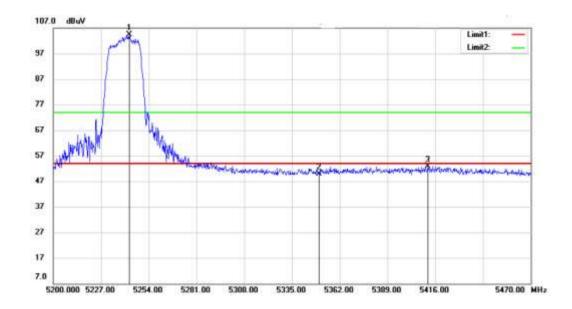
802.11 ac(VHT20)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5242.93	97.66	6.65	104.31	54	50.31	Peak	Horizontal
2	5350	42.99	6.98	49.97	54	-4.03	Peak	Horizontal
3	5411.95	45.7	7.28	52.98	54	-1.02	Peak	Horizontal
1	5241.85	92.26	6.65	98.91	54	44.91	Peak	Vertical
2	5350	42.41	6.98	49.39	54	-4.61	Peak	Vertical
3	5386.57	46.1	7.23	53.33	54	-0.67	Peak	Vertical



Vertical





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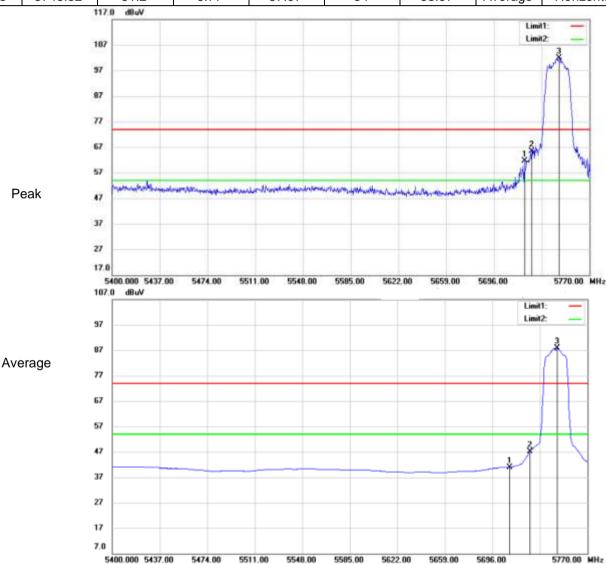
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Channel: 5745

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802.11 ac(VHT20)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5719.68	54.91	6.82	61.73	74	-12.27	Peak	Horizontal
2	5725	58.51	6.82	65.33	74	-8.67	Peak	Horizontal
3	5746.32	95.18	6.77	101.95	74	27.95	Peak	Horizontal
1	5709.69	34.11	6.85	40.96	54	-13.04	Average	Horizontal
2	5725	40.28	6.82	47.1	54	-6.9	Average	Horizontal
3	5746.32	81.2	6.77	87.97	54	33.97	Average	Horizontal





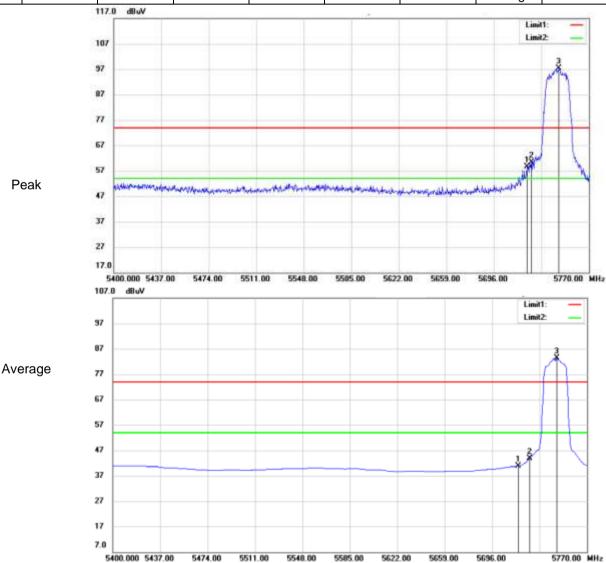
Report No.: SHEM170400212703

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802.11 ac(VHT20)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5721.9	51.88	6.83	58.71	74	-15.29	Peak	Vertical
2	5725	53.61	6.82	60.43	74	-13.57	Peak	Vertical
3	5746.69	90.5	6.77	97.27	74	23.27	Peak	Vertical
1	5716.35	34.07	6.84	40.91	54	-13.09	Average	Vertical
2	5725	37.06	6.82	43.88	54	-10.12	Average	Vertical
3	5746.69	76.51	6.77	83.28	54	29.28	Average	Vertical





Report No.: SHEM170400212703

Channel: 5825

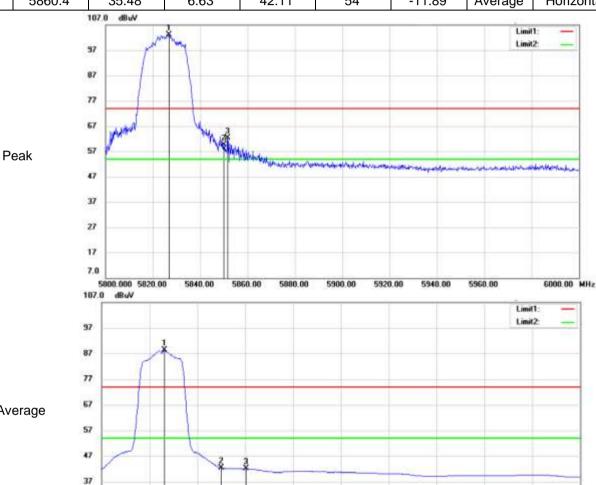
5960.00

6000.00 MHz

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802.11 ac(VHT20)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5826.8	96.39	6.66	103.05	74	29.05	Peak	Horizontal
2	5850	52.88	6.64	59.52	74	-14.48	Peak	Horizontal
3	5851.6	55.66	6.64	62.3	74	-11.7	Peak	Horizontal
1	5826.2	81.61	6.66	88.27	54	34.27	Average	Horizontal
2	5850	35.83	6.64	42.47	54	-11.53	Average	Horizontal
3	5860.4	35.48	6.63	42.11	54	-11.89	Average	Horizontal



Average

27 17 7.0



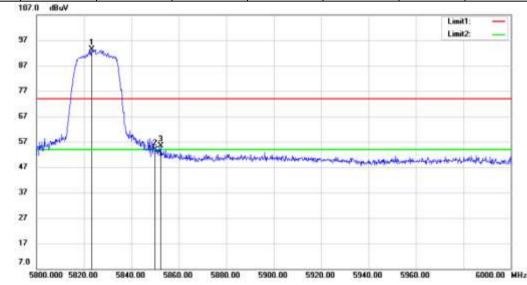
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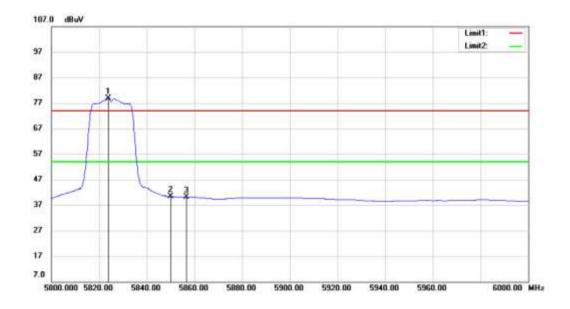
802.11 ac(VHT20)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5823.4	86.72	6.65	93.37	74	19.37	Peak	Vertical
2	5850	47.15	6.64	53.79	74	-20.21	Peak	Vertical
3	5852.4	48.64	6.64	55.28	74	-18.72	Peak	Vertical
1	5823.8	72.13	6.65	78.78	54	24.78	Average	Vertical
2	5850	33.66	6.64	40.3	54	-13.7	Average	Vertical
3	5856.6	33.57	6.63	40.2	54	-13.8	Average	Vertical





Peak



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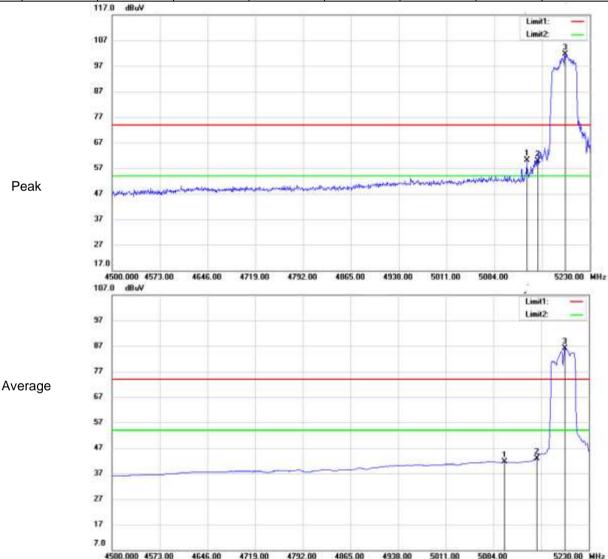
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802.11 ac(VHT40)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5133.64	53.03	7.01	60.04	74	-13.96	Peak	Horizontal
2	5150	53.06	6.92	59.98	74	-14.02	Peak	Horizontal
3	5192.04	94.96	6.7	101.66	74	27.66	Peak	Horizontal
1	5100.79	34.4	7.2	41.6	54	-12.4	Average	Horizontal
2	5150	36.06	6.92	42.98	54	-11.02	Average	Horizontal
3	5193.5	79.32	6.69	86.01	54	32.01	Average	Horizontal





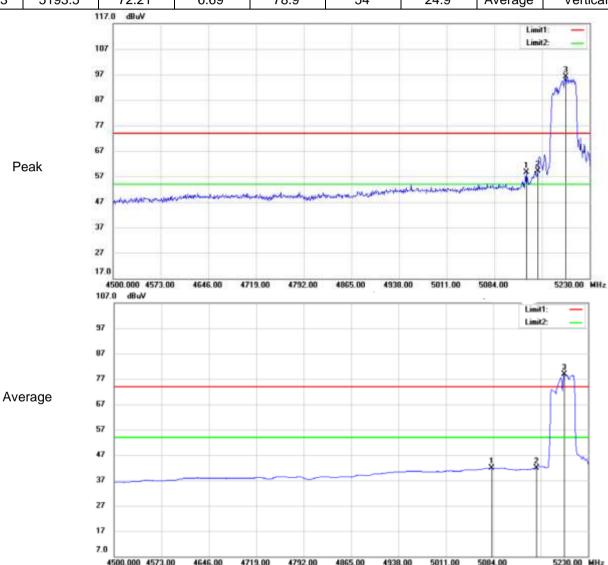
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802.11 ac(VHT40)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5132.91	51.53	7.01	58.54	74	-15.46	Peak	Vertical
2	5150	52.15	6.92	59.07	74	-14.93	Peak	Vertical
3	5193.5	89.35	6.69	96.04	74	22.04	Peak	Vertical
1	5081.08	34.64	7.29	41.93	54	-12.07	Average	Vertical
2	5150	35.08	6.92	42	54	-12	Average	Vertical
3	5193.5	72.21	6.69	78.9	54	24.9	Average	Vertical





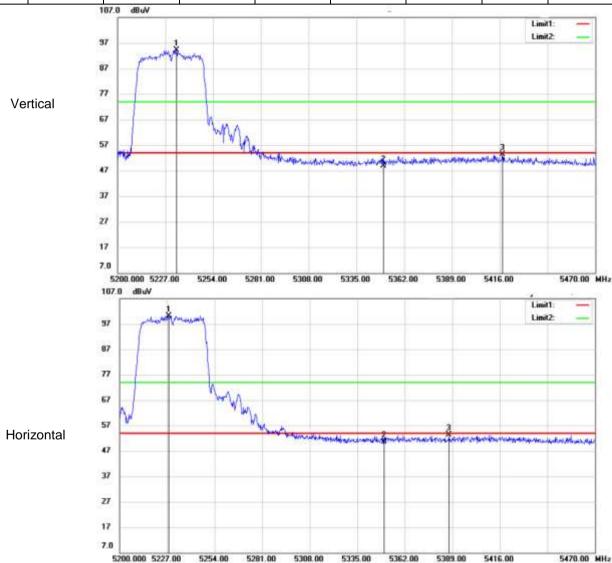
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Channel: 5230

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802.11 ac(VHT40)

		-,							
MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization	
1	5227.81	93.58	6.64	100.22	54	46.22	Peak	Horizontal	
2	5350	43.58	6.98	50.56	54	-3.44	Peak	Horizontal	
3	5387.11	46.19	7.24	53.43	54	-0.57	Peak	Horizontal	
1	5233.21	87.57	6.65	94.22	54	40.22	Peak	Vertical	
2	5350	41.91	6.98	48.89	54	-5.11	Peak	Vertical	
3	5417.62	46.14	7.27	53.41	54	-0.59	Peak	Vertical	





Report No.: SHEM170400212703

Channel: 5755

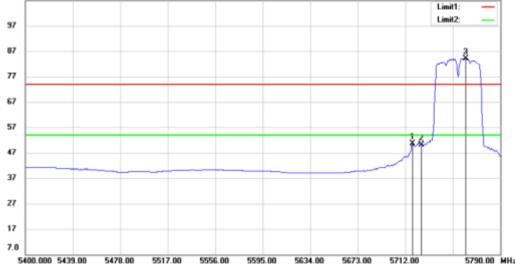
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802.11 ac(VHT40)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5717.85	63.06	6.84	69.9	74	-4.1	Peak	Horizontal
2	5725	60.87	6.82	67.69	74	-6.31	Peak	Horizontal
3	5756.85	93.58	6.75	100.33	74	26.33	Peak	Horizontal
1	5717.85	43.8	6.84	50.64	54	-3.36	Average	Horizontal
2	5725	43.34	6.82	50.16	54	-3.84	Average	Horizontal
3	5761.53	77.4	6.74	84.14	54	30.14	Average	Horizontal









Report No.: SHEM170400212703

Channel: 5755

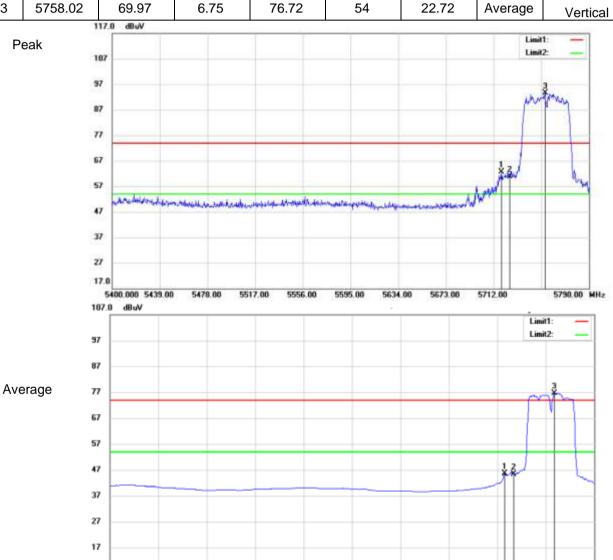
5712.00

5790.00 MHz

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802.11 ac(VHT40)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5718.24	55.81	6.84	62.65	74	-11.35	Peak	Vertical
2	5725	54.02	6.82	60.84	74	-13.16	Peak	Vertical
3	5754.12	86.85	6.77	93.62	74	19.62	Peak	Vertical
1	5717.85	38.74	6.84	45.58	54	-8.42	Average	Vertical
2	5725	38.66	6.82	45.48	54	-8.52	Average	Vertical
3	5758.02	69.97	6.75	76.72	54	22.72	Average	Vertical



5400.000 5439.00



Report No.: SHEM170400212703

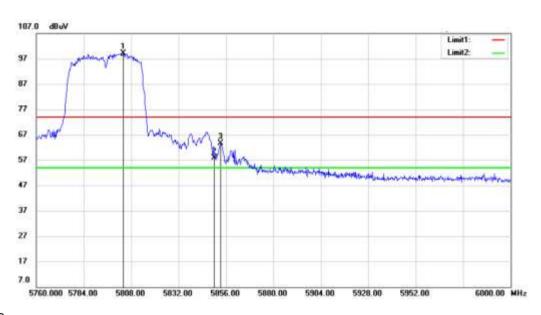
Channel: 5795

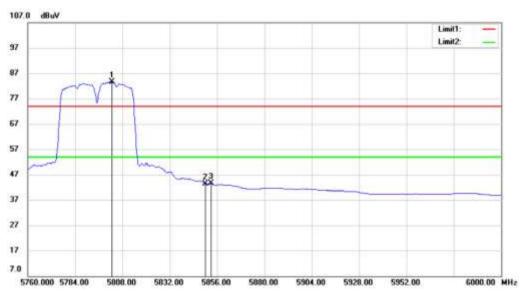
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802.11 ac(VHT40)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5803.92	92.38	6.67	99.05	74	25.05	Peak	Horizontal
2	5850	51.31	6.64	57.95	74	-16.05	Peak	Horizontal
3	5853.36	57.09	6.64	63.73	74	-10.27	Peak	Horizontal
1	5802.72	76.98	6.67	83.65	54	29.65	Average	Horizontal
2	5850	36.69	6.64	43.33	54	-10.67	Average	Horizontal
3	5852.88	37.1	6.64	43.74	54	-10.26	Average	Horizontal

Peak







Report No.: SHEM170400212703

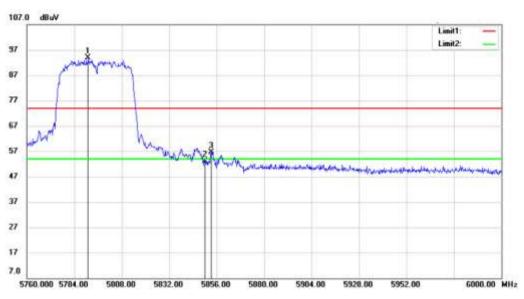
Channel: 5795

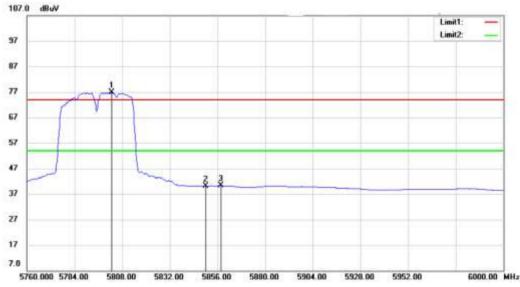
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802.11 ac(VHT40)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5790.96	87.09	6.69	93.78	74	19.78	Peak	Vertical
2	5850	46.48	6.64	53.12	74	-20.88	Peak	Vertical
3	5853.36	50.06	6.64	56.7	74	-17.3	Peak	Vertical
1	5802.72	70.15	6.67	76.82	54	22.82	Average	Vertical
2	5850	33.41	6.64	40.05	54	-13.95	Average	Vertical
3	5857.68	33.66	6.63	40.29	54	-13.71	Average	Vertical

Peak







Report No.: SHEM170400212703

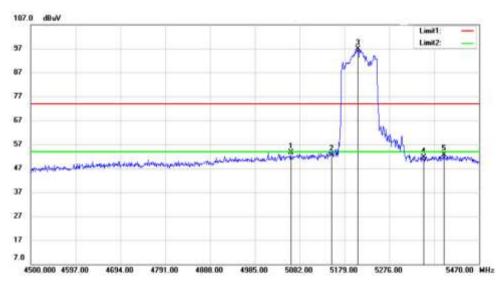
Channel: 5210

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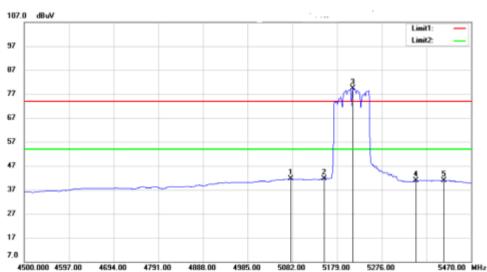
802.11 ac(VHT80)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5062.6	46.2	7.39	53.59	74	-20.41	Peak	Horizontal
2	5150	45.6	6.92	52.52	74	-21.48	Peak	Horizontal
3	5208.1	90.24	6.64	96.88	74	22.88	Peak	Horizontal
4	5350	44.67	6.98	51.65	74	-22.35	Peak	Horizontal
5	5394.34	45.43	7.29	52.72	74	-21.28	Peak	Horizontal
1	5079.09	34.23	7.31	41.54	54	-12.46	Average	Horizontal
2	5150	34.7	6.92	41.62	54	-12.38	Average	Horizontal
3	5212.95	72.65	6.65	79.3	54	25.3	Average	Horizontal
4	5350	33.78	6.98	40.76	54	-13.24	Average	Horizontal
5	5410.83	33.65	7.29	40.94	54	-13.06	Average	Horizontal

Peak



Average



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Report No.: SHEM170400212703

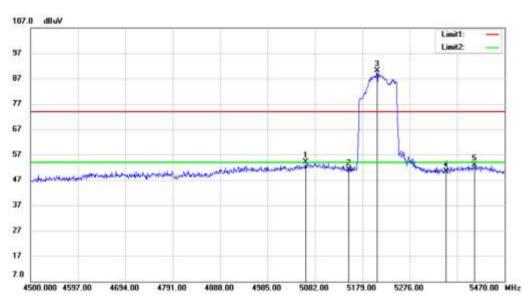
Channel: 5210

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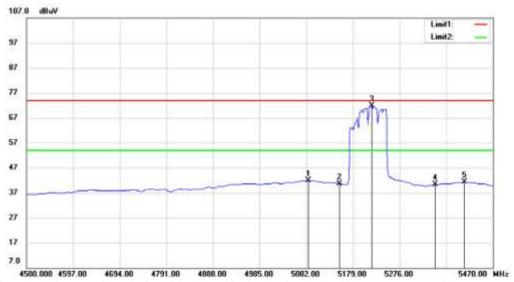
802.11 ac(VHT80)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5063.57	46.66	7.38	54.04	74	-19.96	Peak	Vertical
2	5150	44.19	6.92	51.11	74	-22.89	Peak	Vertical
3	5209.07	83.55	6.64	90.19	74	16.19	Peak	Vertical
4	5350	43.5	6.98	50.48	74	-23.52	Peak	Vertical
5	5407.92	45.53	7.3	52.83	74	-21.17	Peak	Vertical
1	5085.88	34.61	7.28	41.89	54	-12.11	Average	Vertical
2	5150	33.8	6.92	40.72	54	-13.28	Average	Vertical
3	5217.8	65.24	6.65	71.89	54	17.89	Average	Vertical
4	5350	33.3	6.98	40.28	54	-13.72	Average	Vertical
5	5410.83	33.98	7.29	41.27	54	-12.73	Average	Vertical

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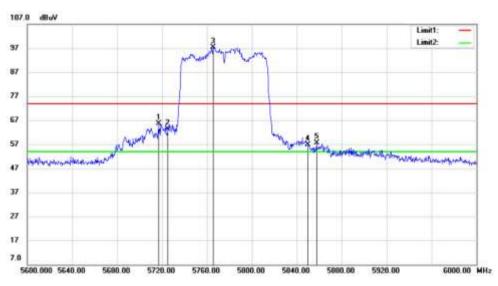
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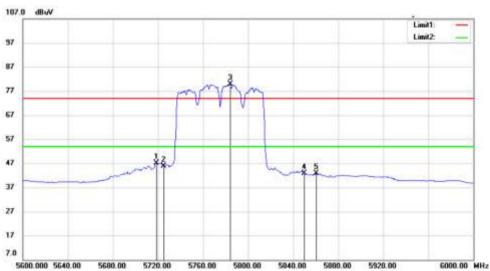
802.11 ac(VHT80)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5717.2	58.68	6.84	65.52	74	-8.48	Peak	Horizontal
2	5725	56.54	6.82	63.36	74	-10.64	Peak	Horizontal
3	5765.6	90.69	6.75	97.44	74	23.44	Peak	Horizontal
4	5850	50.26	6.64	56.9	74	-17.1	Peak	Horizontal
5	5857.6	50.96	6.63	57.59	74	-16.41	Peak	Horizontal
1	5718.8	40.34	6.82	47.16	54	-6.84	Average	Horizontal
2	5725	39.04	6.82	45.86	54	-8.14	Average	Horizontal
3	5784	73.18	6.7	79.88	54	25.88	Average	Horizontal
4	5850	36.25	6.64	42.89	54	-11.11	Average	Horizontal
5	5860.4	36.28	6.63	42.91	54	-11.09	Average	Horizontal

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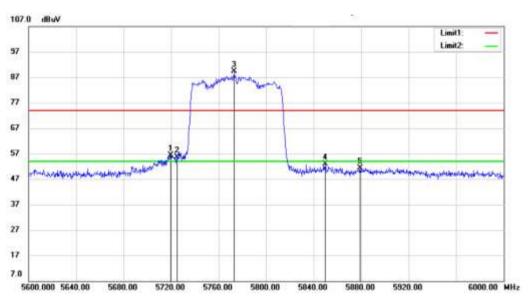
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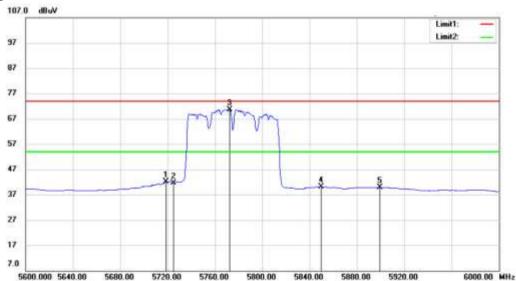
802.11 ac(VHT80)

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5719.6	49.58	6.82	56.4	74	-17.6	Peak	Vertical
2	5725	48.71	6.82	55.53	74	-18.47	Peak	Vertical
3	5772.8	82.68	6.72	89.4	74	15.4	Peak	Vertical
4	5850	46.23	6.64	52.87	74	-21.13	Peak	Vertical
5	5879.2	44.69	6.63	51.32	74	-22.68	Peak	Vertical
1	5718.8	35.38	6.82	42.2	54	-11.8	Average	Vertical
2	5725	34.93	6.82	41.75	54	-12.25	Average	Vertical
3	5772.4	63.98	6.72	70.7	54	16.7	Average	Vertical
4	5850	33.52	6.64	40.16	54	-13.84	Average	Vertical
5	5899.2	33.35	6.61	39.96	54	-14.04	Average	Vertical

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Remark: 1. Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

- 2. No any other emission which falls in restricted bands can be detected and be reported.
- 3. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Section 15.205 Restricted bands of operation.

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

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			



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6.9 Transmission in the Absence of Data

6.9.1 Standard Applicable

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

6.9.2 Test Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

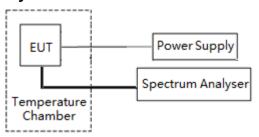


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6.10 Frequency stability

Test setup:



Test Procedure:

- a) The EUT was place in the temperature chamber, the DC leads and RF output cable exited the chamber though an opening made for that purpose.
- b) After operate the equipment in standby conditions for 15 minutes before proceeding. The temperature was varied from -20°C to +55°C at intervals of not more than 10°C. The frequency stability was read from the spectrum analyzer and the frequency stability and input voltage was record.

Test Limit:

The frequency of carrier signal shall be maintained within the band of operation

Test Data:

Band	Test Co	nditions	Operation	Test Frequency	Freq. Dev.	Limit	Result
Danu	Volt (V AC)	Temp (℃)	Frequency(MHz)	(MHz)	(MHz)	(GHz)	Result
		Extreme(-20)		5179.9854	0.0146		Pass
		Extreme(-10)		5179.9867	0.0133		Pass
		Extreme(0)		5179.9862	0.0138		Pass
	Normal(120)	Extreme(+10)		5179.9853	0.0147	5.15-5.25	Pass
Band	Nomal(120)	Extreme(+20)	5180	5179.9873	0.0127		Pass
U-NII 1		Extreme(+30)	3100	5179.9869	0.0131	5.15-5.25	Pass
		Extreme(+40)		5179.9859	0.0141		Pass
		Extreme(+55)		5179.9862	0.0138		Pass
	Extreme(102)	Norma(+20)		5179.9877	0.0123		Pass
	Extreme(138)	Norma(+20)		5179.9841	0.0159		Pass
		Extreme(-20)		5824.9799	0.0201		Pass
		Extreme(-10)		5824.9792	0.0208		Pass
		Extreme(0)		5824.9794	0.0206		Pass
	Normal(120)	Extreme(+10)		5824.9802	0.0198		Pass
Band	Nomiai(120)	Extreme(+20)	5825	5824.9794	0.0206	5.725-5.85	Pass
U-NII 3		Extreme(+30)	3623	5824.9785	0.0215	5.725-5.65	Pass
		Extreme(+40)		5824.9779	0.0221		Pass
		Extreme(+55)		5824.9772	0.0228		Pass
	Extreme(102)	Norma(20)		5824.9782	0.0218		Pass
	Extreme(138)	inullia(20)		5824.9782	0.0218		Pass

Remark: Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



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7 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

8 EUT Constructional Details

Refer to the <External Photos > & < Internal Photos >.

-- End of the Report--