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### ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

### INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

**Product Name: Tablet Computer** 

**Marketing Name:** GP8

**Brand Name:** acer

Model No.: A6201 **Model Difference:** N/A

FCC ID: **HLZA6201** 

E2/2016/A0032 Report No.: **Issue Date:** Nov. 09, 2016

**FCC Rule Part:** §15.407

**Acer Incorporated Prepared for:** 

8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi,

New Taipei City 22181, Taiwan (R.O.C)

Prepared by: SGS Taiwan Ltd.

> **Electronics & Communication Laboratory** No.2, Keji 1st Rd., Guishan

Taoyuan City, Taiwan 333





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### VERIFICATION OF COMPLIANCE

**Applicant:** Acer Incorporated

8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181,

Taiwan (R.O.C)

**Tablet Computer Product Name:** 

GP8 **Marketing Name:** 

**Brand Name:** acer

Model No.: A6201

**Model Difference:** N/A

HLZA6201 FCC ID:

**File Number:** E2/2016/A0032

**Date of Test:** Oct. 07, 2016 ~ Nov. 04, 2016

Date of EUT Received: Oct. 07, 2016

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

1 11

Test By:	Vit	Date:	Nov. 09, 2016
_	Vito Pei / Sr. Engineer		
Prepared By:	Allen Isai	Date:	Nov. 09, 2016
Approved By:	Allen Tsai / Engineer  Jim Ch ang	Date:	Nov. 09, 2016
	Jim Chang / Asst. Manager		

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# **Revision History**

Report Number	Revision	Description	Issue Date
E2/2016/A0032	Rev.00	Initial creation of document	Nov. 09, 2016

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### 1. GENERAL INFORMATION

### 1.1 Product Description

General:

Product Name:	Tablet Computer		
Marketing Name:	GP8		
Brand Name:	acer		
Model No.:	A6201		
Model difference:	N/A		
Product SW/HW version:	: Acer_AV0M0_A6201_RV10RC01_PA_VERIZON/ V03		
Radio SW/HW version:	MPSS.TA.2.2.c1-00190-8953_GEN_PACK-1 / WCN3660B		
USB Cable:	Model No: 3080199058 Supplier: Component USER INDUCTRY		
WPC Docking:	Model No: WCD02005B Supplier: CWT		
WPC Docking adapter:	apter: Model No: 2AAJ012F Supplier: Channel Well		
	3.8 Vdc from Rechargeable Li-polymer Battery or 5 V from AC/DC Adapter		
Power Supply:	Battery: Model No.: AP14F8K(1ICP4/101/110), Supplier:LG Chem, Ltd.		
	Adapter: Model No.: NSS050200BU, Supplier: Tamura.		

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### WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology	
	5150~5250	4	15.42 dBm		
110	5250~5350	4	15.46 dBm	OFDM	
11a	5470~5725	12	15.48 dBm	OFDM	
	5725-5850	5	15.42 dBm		
11n_20M	5150~5250	4	15.34 dBm		
	5250~5350	4	15.46 dBm	OFDM	
	5470~5725	11	15.41 dBm	OFDM	
	5725-5850	5	15.44 dBm		
	5150~5250	2	12.98 dBm		
11n_40M -	5250~5350	2	12.95 dBm	OFDM	
	5470~5725	5	12.95 dBm	OFDM	
	5725-5850	2	12.93 dBm		

Antenna Designation	PIFA Antenna, Peak Gain: 0.6dBi
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps

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### 1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

KDB648474D03 Wireless Chargers Battery Cover

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

### Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

### 1.4 Special Accessories

There are no special accessories used while test was conducted.

#### **Equipment Modifications** 1.5

There was no modification incorporated into the EUT.

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### 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

#### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plan. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

## 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### Note:

= RF cable loss (2.4dB)+ attenuation factor(10dB) =12.4(dB)

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### 2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

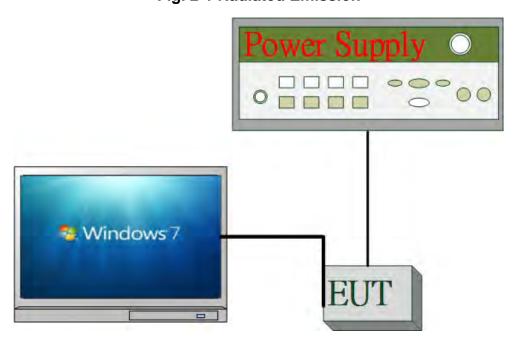
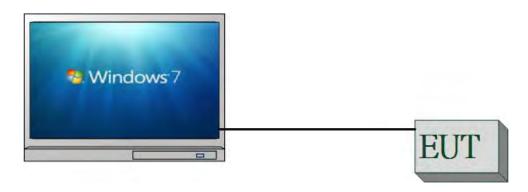


Fig. 2-2 Conducted (Antenna Port) Configuration Emission



**Table 2-1 Equipment Used in Tested System** 

Ite m	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L440	R9-007LAZ	Shielded	Unshielded
3.	DC Power Sup- ply	Agilent	E3640A	MY53140006	N/A	Unshielded

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### **SUMMARY OF TEST RESULT**

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant

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### **DESCRIPTION OF TEST MODES**

### 4.1 Operated in U-NII Bands

### Operated band in 5150 MHz ~5250 MHz:

Operated barra in 3130 mil		
802.11a / n HT20 Mode		
Channel	Frequency	
36	5180	
40	5200	
44	5220	
48	5240	

802.11 n HT40 Mode		
channel	Frequency	
38	5190	
46	5230	

### Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode		
channel Frequency		
52	5260	
56	5280	
60	5300	
64	5320	

802.11 n HT40 Mode			
channel	Frequency		
54	5270		
62	5310		

### Operated band in 5500 MHz ~5700 MHz:

Operated band in 5500 im			
802.11a / n HT20 Mode			
Channel	Frequency		
100	5500		
104	5520		
108	5540		
112	5560		
116	5580		
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		

802.11 n HT40 Mode			
channel	Frequency		
102	5510		
110	5550		
118	5590		
126	5630		
134	5670		

### Operated band in 5745 MHz ~5825 MHz:

802.11a / n HT20 Mode			
Channel	Frequency		
149	5745		
153	5765		
157	5785		
161	5805		
165	5825		

802.11 n HT40 Mode			
channel	Frequency		
151	5755		
159	5795		

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### 4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

### **RADIATED EMISSION TEST:**

IN LED ENITODION	ATED EMISSION TEST.						
RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY AVAILABLE TESTED MODULATION BAND (MHz) CHANNEL CHANNEL		DATA RATE (Mbps)				
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6		
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6		
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6		
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6		
	RADIATE	D EMISSION	TEST (ABOVE	E 1 GHz)			
MODE FREQUENCY AVAILABLE BAND (MHz) CHANNEL		TESTED CHANNEL	MODULATION	DATA RATE (Mbps)			
802.11a	E100 E240	26 to 49	26 44 49	OFDM	6		
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS0		
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0		
802.11a	5260 <b>5</b> 220	52 to 64	52 60 64	OFDM	6		
802.11n_HT20	5260~5320	52 to 64	52,60,64	OFDM	MCS0		
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0		

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MODE	FREQUENCY BAND (MHz)		TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6
802.11n_HT20	5500~5720			OFDM	MCS0
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6
802.11n_HT20	5745~5625			OFDM	MCS0
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0

#### Note:

Per KDB 648474 D03, spurious emissions measurement data was investigated with the wireless charging battery cover. Additional emissions testing were performed per KDB 648474 D03 and the worst case emissions are reported herein and identified as normal mode.

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

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### ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
802.11a	5180~5240	36 to 48	26 44 49	OFDM	6	
802.11n_HT20	3160~3240	30 10 40	36,44,48	OFDM	MCS0	
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	
802.11a	E360 E330	F2 to 64	50.00.04	OFDM	6	
802.11n_HT20	5260~5320	52 to 64	52,60,64	OFDM	MCS0	
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	
802.11a	5500 5700	100 to 140	0 400 446 440	OFDM	6	
802.11n_HT20	5500~5700	100 10 140	100,116,140	OFDM	MCS0	
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	
802.11a	E74E E92E	149 to 165	4.40.457.405	OFDM	6	
802.11n_HT20	5745~5825	149 (0 100	149,157,165	OFDM	MCS0	
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	

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### **MEASUREMENT UNCERTAINTY**

Test Items	Uncertainty	
AC Power Line Conducted Emission	+/- 2.586 dB	
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz	
The Maximum Output Power Measurement	+/- 0.96 dB	
Peak Power Spectral Density Measurement	+/- 1.67 dB	
Frequency Stability	+/- 123.36 Hz	
Temperature	+/- 0.65 °C	
Humidity	+/- 4.6 %	
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%	

Radiated Spurious Emission:

	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
Measurement uncertainty	180MHz -417MHz: +/- 3.19dB
(Polarization : <b>Vertical</b> )	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB
(Polarization : Horizontal)	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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### **CONDUCTED EMISSION TEST**

### 6.1. Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range	Limits dB(uV)		
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	

#### Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 6.2. Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT MFR MODEL SERIAL LAST CAL DU						
TYPE		NUMBER	NUMBER	CAL.		
EMI Test Receiver	R&S	ESCI 7	100950	12/08/2015	12/07/2016	
Coaxial Cables	N/A	N30N30-1042- 150cm	N/A	02/07/2016	02/06/2017	
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017	
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.	

### 6.3. EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The LISN was connected with 120Vac/60Hz power source.

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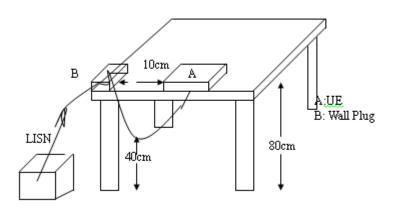
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#### 6.4. Test SET-UP



#### 6.5. Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed.

#### 6.6. Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closet to the limit

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### AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	operation mode	Test By:	Vito
Model No.:	NSS050200BU		

Site: Conduction Room

Phase:

L1

Temperature:

25 ℃

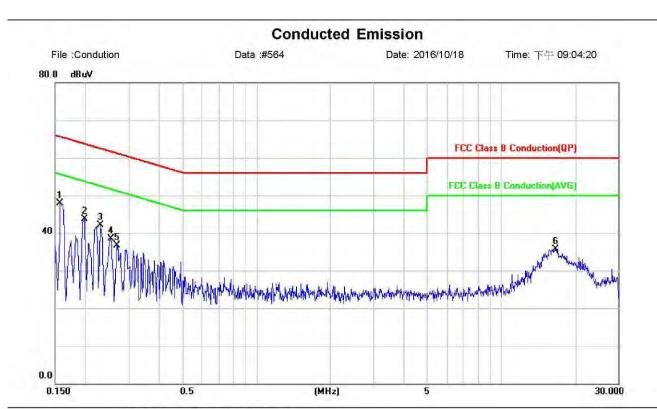
Limit: FCC Class B Conduction(QP)

Power:

AC 120V/60Hz

Humidity: 56 %

Mode: Note:



No. M	1k. Freq.	Read Lev		Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu	V	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.158	80 28.1	16	19.72	47.88	65.57	-17.69	peak	
2	0.198	30 24.0	)6	19.71	43.77	63.69	-19.92	peak	
3	0.230	0 22.3	34	19.73	42.07	62.45	-20.38	peak	
4	0.254	0 18.7	73	19.75	38.48	61.63	-23.15	peak	_
5	0.270	0 16.9	98	19.76	36.74	61.12	-24.38	peak	
6	16.646	0 15.4	13	20.37	35.80	60.00	-24.20	peak	

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Site: Conduction Room

Limit: FCC Class B Conduction(QP)

Mode: Note:

0.150

Phase:

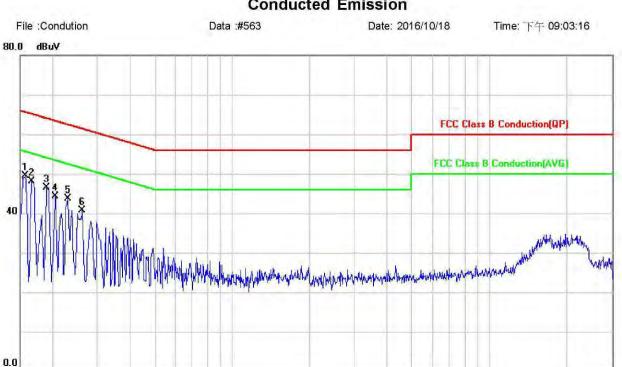
Power:

N AC 120V/60Hz Temperature: 25 °C

Humidity: 56 %

30.000

### **Conducted Emission**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	*	0.1580	29.72	19.73	49.45	65.57	-16.12	peak		
2	3	0.1660	28.31	19.73	48.04	65.16	-17.12	peak		
3		0.1900	26.87	19.72	46.59	64.04	-17.45	peak		
4		0.2060	24.61	19.72	44.33	63.37	-19.04	peak		
5		0.2300	23.93	19.74	43.67	62.45	-18.78	peak		
6	1	0.2620	20.99	19.76	40.75	61.37	-20.62	peak		

(MHz)

0.5

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Operation Mode:	operation mode with WPC	Test By:	Vito
Model No.:	NSS050200BU		

Site: Conduction Room

Limit: FCC Class B Conduction(QP)

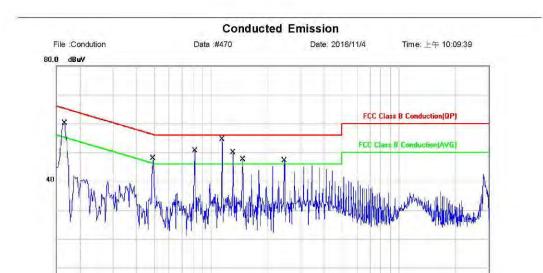
Mode: WPC Note:

> 0.0 0.150

Phase: L1 Power: AC 120V/60Hz Temperature: 23 ℃

30.000

Humidity: 60 %



(MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		2 1 2 2
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1660	39.40	19.72	59.12	65.16	-6.04	QP	
2		0.1660	34.40	19.72	54.12	55.16	-1.04	AVG	
3		0.4900	26.70	19.89	46.59	56.17	-9.58	QP	
4		0.4900	23.40	19.89	43.29	46.17	-2.88	AVG	
5		0.8180	29.10	19.91	49.01	56.00	-6.99	QP	
6	*	0.8180	25.20	19.91	45.11	46.00	-0.89	AVG	
7		1.1460	30.40	19.91	50.31	56.00	-5.69	QP	
8		1.1460	20.50	19.91	40.41	46.00	-5.59	AVG	
9		1.3100	22.70	19.92	42.62	56.00	-13.38	QP	
10		1.3100	16.60	19.92	36,52	46,00	-9.48	AVG	
11		1.4740	27.10	19.92	47.02	56.00	-8.98	QP	
12		1.4740	23.50	19.92	43.42	46.00	-2.58	AVG	
13	f .	2.4580	26.50	19.94	46.44	56.00	-9.56	QP	

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	MHz dBuV	dB dBuV	dBuV	dB Det	Detector	Comment		
14	1	2.4580	22.80	19.94	42.74	46.00	-3.26	AVG		
_										

S

0.5

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Site: Conduction Room

Limit: FCC Class B Conduction(QP)

Mode: WPC

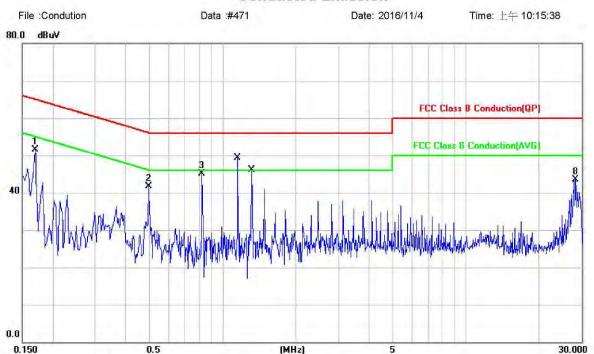
Note:

Phase: N AC 120V/60Hz Temperature: 23 °C

Humidity: 60 %

### **Conducted Emission**

Power:



No. N	1k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	31.76	19.73	51.49	64.96	-13.47	peak	
2		0.4980	21.78	19.91	41.69	56.03	-14.34	peak	
3		0.8260	25.25	19.92	45.17	56.00	-10.83	peak	
4		1.1580	28.70	19.92	48.62	56.00	-7.38	QP	
5 *	0.00	1.1580	22.20	19.92	42.12	46.00	-3.88	AVG	
6	13	1.3220	23.10	19.93	43.03	56.00	-12.97	QP	
7	- 3	1.3220	17.80	19.93	37.73	46.00	-8.27	AVG	
8	2	8.4260	22.51	20.95	43.46	60.00	-16.54	peak	

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### **DUTY CYCLE TEST SIGNAL**

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### Formula:

Duty Cycle = Ton / (Ton+Toff)

#### **Measurement Procedure:**

- Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz.
- Detector = Peak

### **Duty Cycle:**

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log ( 1/Duty Cycle )
802.11a	87.24	0.59
802.11n_20	86.64	0.62
802.11n_40	76.05	1.19

Duty Cycle Factor:  $10 * \log(1/0.8724) = 0.59$ Duty Cycle Factor:  $10 * \log(1/0.8664) = 0.62$ Duty Cycle Factor:  $10 * \log(1/0.7605) = 1.19$ 

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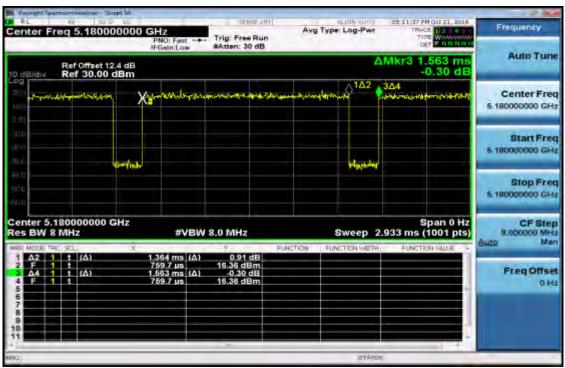
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### **DUTY CYCLE TEST SIGNAL Measurement Result** 802.11a



### 802.11n HT20



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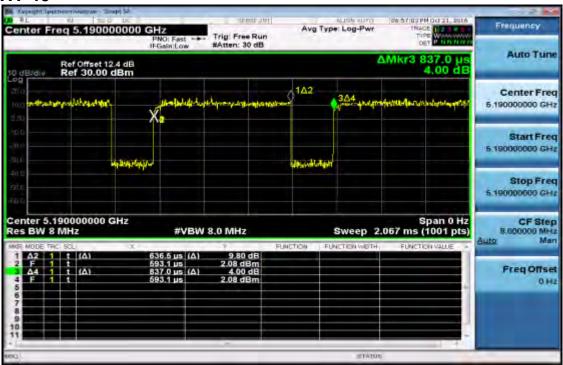
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### 802.11n HT 40



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### 8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

#### 8.2 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
  - b. Mark the peak frequency and -26dB (upper and lower) frequency.
- 4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
- 5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
  - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3\*RBW, Span = 30M/50MHz, Detector=Peak,
    - Sweep=auto
  - b. Mark the peak frequency and –6dB (upper and lower) frequency.
- 6. Repeat above procedures until all test default channel measured were complete.

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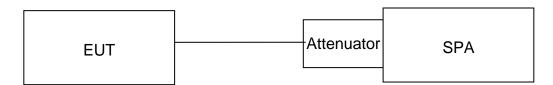


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#### 8.3 Measurement Equipment Used

Measurement L	SGS Conducted Room											
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due							
Spectrum Ana- lyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017							
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017							
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017							
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017							
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016							
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016							
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016							
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016							
DC Power Sup- ply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017							

### 8.4 Test Set-up



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### 8.5 Measurement Result 26dB and 6dB Bandwidth

#### 802 11a Main

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Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)			
5180	20.16	13.045			
5220	20.22	13.058			
5240	19.47	12.894	802.11a_Mai	n	
5260	20.06	13.023	Fraguenay	6dB	10 Log (B)
5300	19.59	12.920	Frequency (MHz)	BW	10 Log (B) (dB)
5320	19.86	12.980	(141112)	(MHz)	(ub)
5500	20.49	13.115	5745	16.37	12.140
5580	19.83	12.973	5785	16.36	12.138
5700	19.85	12.978	5825	16.37	12.140

#### 802.11n HT20 Main

002.1111 <u>1</u> 1112					
Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)			
5180	20.28	13.071			
5220	20.45	13.107			
5240	20.59	13.137	802.11n_HT2	20_Main	
5260	20.55	13.128	Fraguanay	6dB	10 Log (B)
5300	20.38	13.092	Frequency (MHz)	BW	10 Log (B) (dB)
5320	20.55	13.128	(1411-12)	(MHz)	(ub)
5500	20.49	13.115	5745	17.58	12.450
5580	20.05	13.021	5785	17.61	12.458
5700	20.64	13.147	5825	17.58	12.450

#### 802.11n HT40 Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)			
5190	39.05	15.916			
5230	38.75	15.883	802.11n_HT4	40_Main	
5270	38.62	15.868	F	6dB	40 L a m (D)
5310	38.73	15.880	Frequency	BW	10 Log (B)
5510	38.55	15.860	(MHz)	(MHz)	(dB)
5550	38.53	15.858	5755	35.12	15.456
5670	38.56	15.861	5795	35.40	15.490

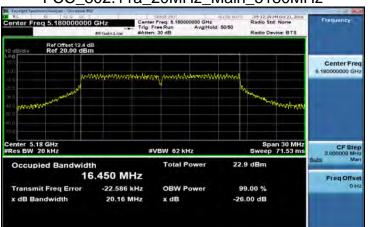
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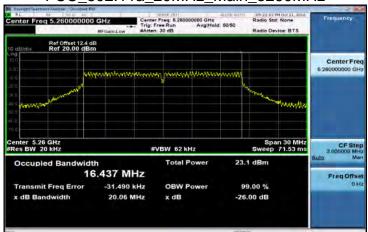


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### FCC 802.11a 20MHz Main 5180MHz



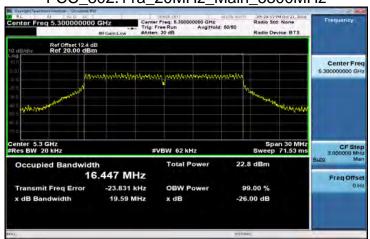
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FCC 802.11a 20MHz Main 5220MHz



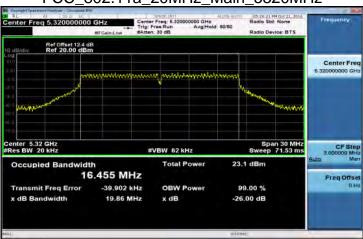
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FCC 802.11a 20MHz Main 5240MHz



FCC 802.11a 20MHz Main 5320MHz



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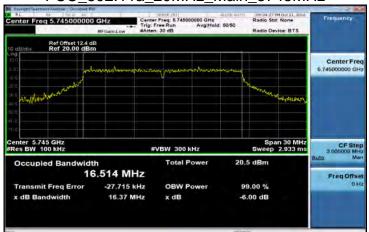


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### FCC 802.11a 20MHz Main 5500MHz



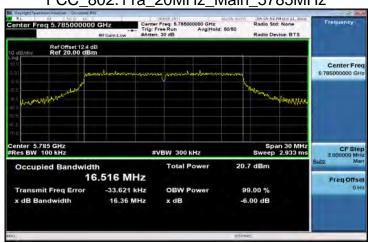
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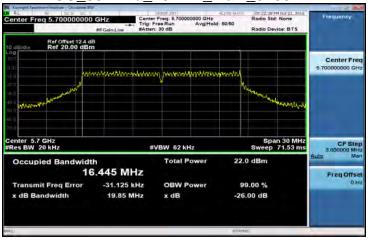
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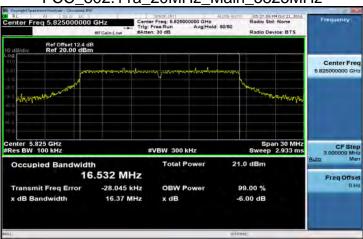
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FCC 802.11a 20MHz Main 5700MHz



### FCC 802.11a 20MHz Main 5825MHz



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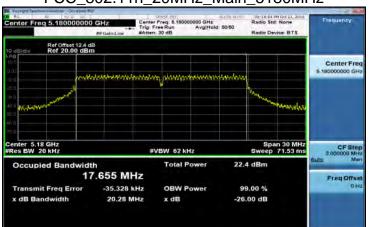
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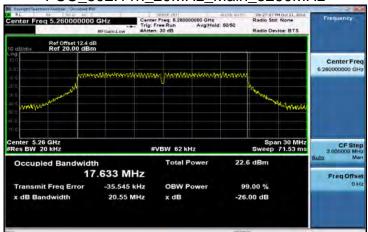


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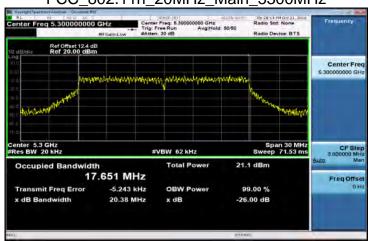
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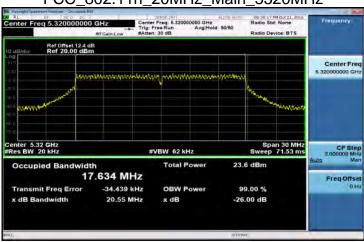
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### FCC 802.11n 20MHz Main 5240MHz



FCC 802.11n 20MHz Main 5320MHz



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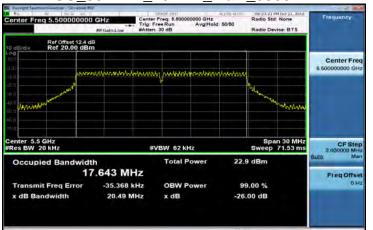
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### FCC 802.11n 20MHz Main 5500MHz



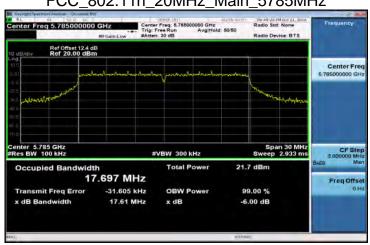
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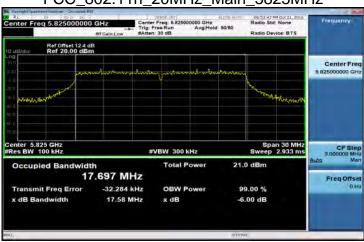
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### FCC 802.11n 20MHz Main 5700MHz



### FCC 802.11n 20MHz Main 5825MHz



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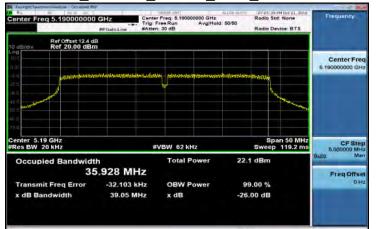
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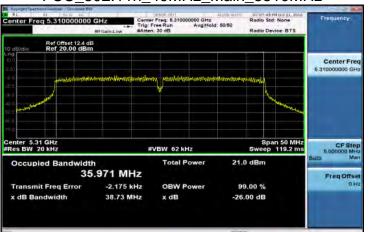


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### FCC 802.11n 40MHz Main 5190MHz



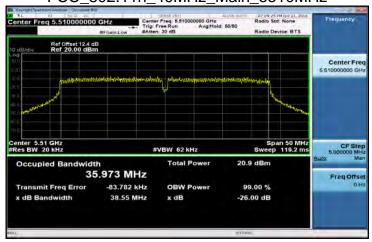
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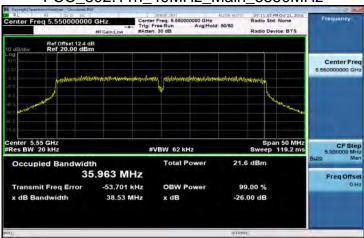
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FCC 802.11n 40MHz Main 5270MHz



FCC 802.11n 40MHz Main 5550MHz



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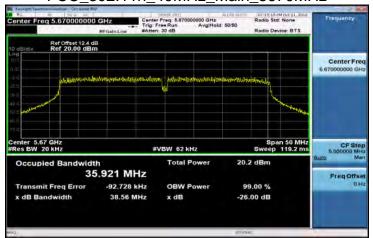
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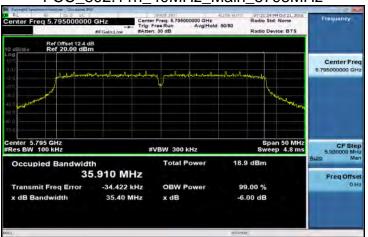
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### FCC 802.11n 40MHz Main 5755MHz



### FCC\_802.11n\_40MHz\_Main\_5795MHz



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### MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### **Standard Applicable**

OPERZTION Band		EUT CATEGORY	LIMIT		
U-NII-1		Access Point (Mater device )	1 Watt(30dBm)		
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)		
	<b>√</b>	Mobile and portable clinet device	250mW(23.98dBm)		
U-NII-2A	V		250mW(23.98dBm) or 11dBm+10 log B		
U-NII-2C	V		250mW(23.98dBm) or 11dBm+10 log B		
U-NII-3	V		1 Watt(30dBm)		

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the direction-al gain of the antenna exceeds 6 dBi.

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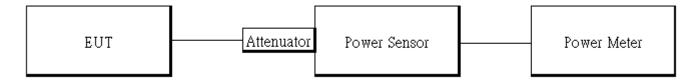
#### 9.2 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
- 4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
- 5. Record the max. reading and add 10 log(1/duty cycle).
- 6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

### 9.3 Measurement Equipment Used

SGS Conducted Room								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
Spectrum An- alyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017			
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017			
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017			
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017			
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016			
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016			
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016			
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017			

### 9.4 Test Set-up



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## 9.5 Measurement Result Conducted output power (FCC)

### 802.11a Main

002.114_Walli								
СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT	
36	5180	MCS0	15.36	34.356		23.98		PASS
44	5220	MCS0	15.38	34.514	23.98		PASS	
48	5240	MCS0	15.42	34.834	23.98		PASS	
52	5260	MCS0	15.46	35.156	23.98	or 11+10log(B) =	24.02	PASS
60	5300	MCS0	15.19	33.037	23.98	or 11+10log(B) =	23.92	PASS
64	5320	MCS0	15.24	33.420	23.98	or 11+10log(B) =	23.98	PASS
100	5500	MCS0	15.48	35.318	23.98	or 11+10log(B) =	24.12	PASS
116	5580	MCS0	15.35	34.277	23.98	or 11+10log(B) =	23.97	PASS
140	5700	MCS0	15.47	35.237	23.98	or 11+10log(B) =	23.98	PASS
149	5745	MCS0	15.39	34.594	30		PASS	
157	5785	MCS0	15.33	34.119	30		PASS	
165	5825	MCS0	15.42	34.834		30		PASS

### 802.11n\_HT20\_Main

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT	
36	5180	MCS0	15.34	34.198	23.98		PASS	
44	5220	MCS0	15.34	34.198	23.98		PASS	
48	5240	MCS0	15.32	34.041	23.98		PASS	
52	5260	MCS0	15.33	34.119	23.98	or 11 +10log(B) =	24.13	PASS
60	5300	MCS0	15.40	34.674	23.98	or 11 +10log(B) =	24.09	PASS
64	5320	MCS0	15.46	35.156	23.98	or 11 +10log(B) =	24.13	PASS
100	5500	MCS0	15.32	34.041	23.98	or 11 +10log(B) =	24.12	PASS
116	5580	MCS0	15.36	34.356	23.98	or 11 +10log(B) =	24.02	PASS
140	5700	MCS0	15.41	34.754	23.98	or 11 +10log(B) =	24.15	PASS
149	5745	MCS0	15.43	34.914	30		PASS	
157	5785	MCS0	15.44	34.995	30		PASS	
165	5825	MCS0	15.36	34.356		30		PASS

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#### 802.11n HT40 Main

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT	
38	5190	MCS0	12.98	19.861	23.98			PASS
46	5230	MCS0	12.96	19.770	23.98			PASS
54	5270	MCS0	12.95	19.724	23.98	or 11+10log(B) =	26.87	PASS
62	5310	MCS0	12.76	18.880	23.98	or 11+10log(B) =	26.88	PASS
102	5510	MCS0	12.77	18.923	23.98	or 11+10log(B) =	26.86	PASS
110	5550	MCS0	12.95	19.724	23.98	or 11+10log(B) =	26.86	PASS
134	5670	MCS0	12.70	18.621	23.98	or 11+10log(B) =	26.86	PASS
151	5755	MCS0	12.79	19.011		30		PASS
159	5795	MCS0	12.93	19.634		30		PASS

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#### 10. PEAK POWER SPECTRAL DENSITY

# 10.1 Standard Applicable

OPERZTION Band		EUT CATEGORY	LIMIT
U-NII-1		Access Point (Mater device )	17dBm/ MHz
		Fixed point-to-point Acess Ponit	
	V	Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	V		11dBm/ MHz
U-NII-2C	V		11dBm/ MHz
U-NII-3			30dBm/ 500kHz

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

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#### 10.2 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.

# 4. For U-NII1, U-NII-2A, U-NII-2C Band:

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

#### For U-NII-3 Band:

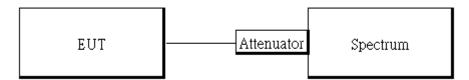
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

- User the cursor on spectrum to peak search the highest level of trace
- 6. Record the max. reading and add 10 log(1/duty cycle).
- 7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

#### 10.3 Measurement Equipment Used

SGS Conducted Room								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due			
Spectrum Ana- lyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017			
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016			
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016			

#### 10.4 Test Set-up



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#### 10.5 Measurement Result

POWER DENSITY 802.11a MODE					
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)		
5180	-0.42	17	-17.42		
5220	1.62	17	-15.38		
5240	0.23	17	-16.77		
5260	2.75	11	-8.25		
5300	0.01	11	-10.99		
5320	-1.38	11	-12.38		
5500	-1.53	11	-12.53		
5580	-0.87	11	-11.87		
5700	-1.46	11	-12.46		
5745	7.62	30	-22.38		
5785	8.10	30	-21.90		
5825	7.79	30	-22.21		

POWER DENSITY 802.11n HT20 MODE						
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)			
5180	-0.30	17	-17.30			
5220	-1.06	17	-18.06			
5240	-2.42	17	-19.42			
5260	3.55	11	-7.45			
5300	1.32	11	-9.68			
5320	-0.94	11	-11.94			
5500	-3.36	11	-14.36			
5580	-2.94	11	-13.94			
5700	3.13	11	-7.87			
5745	7.43	30	-22.57			
5785	7.56	30	-22.44			
5825	7.66	30	-22.34			

POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)				
5190	-8.24	17	-25.24				
5230	-7.8	17	-24.80				
5270	-8.49	11	-19.49				
5310	-13.54	11	-24.54				
5510	-13.84	11	-24.84				
5550	-10.16	11	-21.16				
5670	-8.54	11	-19.54				
5755	3.14	30	-26.86				
5795	2.78	30	-27.22				

Note:

SISO offset= 12.4 dB

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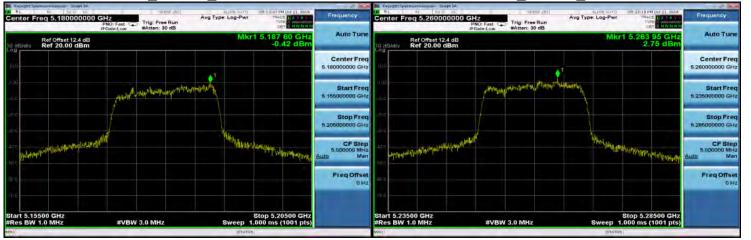
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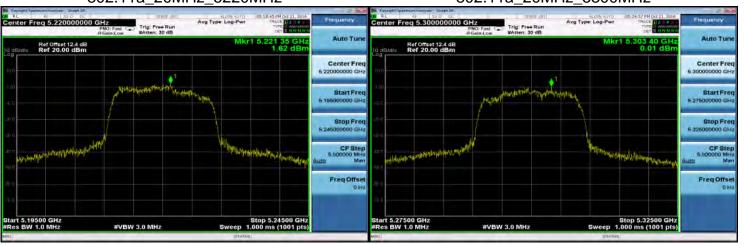
# 802.11a\_20MHz\_5180MHz

# 802.11a\_20MHz\_5260MHz



# 802.11a\_20MHz\_5220MHz

# 802.11a\_20MHz\_5300MHz



#### 802.11a 20MHz 5240MHz

# 802.11a\_20MHz\_5320MHz



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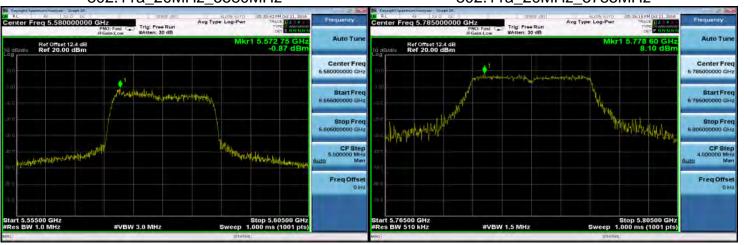
# 802.11a\_20MHz\_5500MHz

# 802.11a\_20MHz\_5745MHz



# 802.11a\_20MHz\_5580MHz

#### 802.11a\_20MHz\_5785MHz



#### 802.11a 20MHz 5700MHz

# 802.11a\_20MHz\_5825MHz



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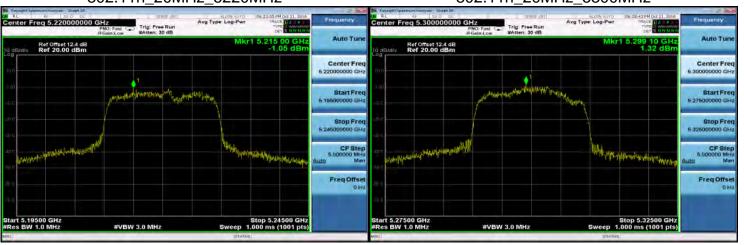


# 802.11n\_20MHz\_5260MHz



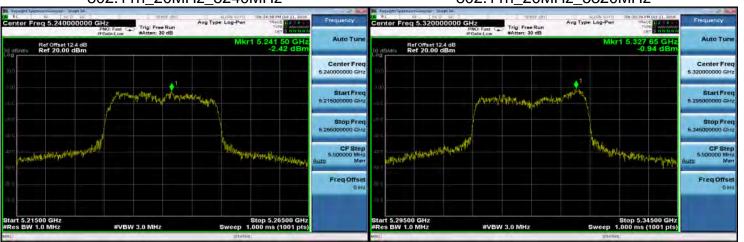
# 802.11n\_20MHz\_5220MHz

# 802.11n\_20MHz\_5300MHz



#### 802.11n 20MHz 5240MHz

# 802.11n\_20MHz\_5320MHz



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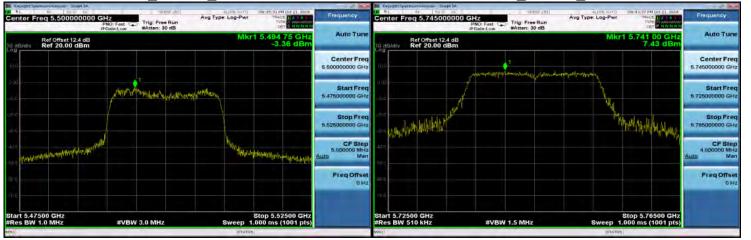
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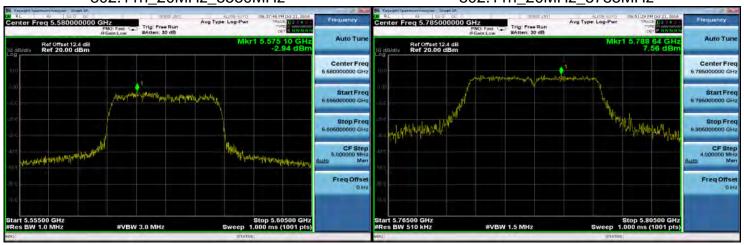
# 802.11n\_20MHz\_5500MHz

# 802.11n\_20MHz\_5745MHz



# 802.11n\_20MHz\_5580MHz

# 802.11n\_20MHz\_5785MHz



#### 802.11n 20MHz 5700MHz

# 802.11n\_20MHz\_5825MHz



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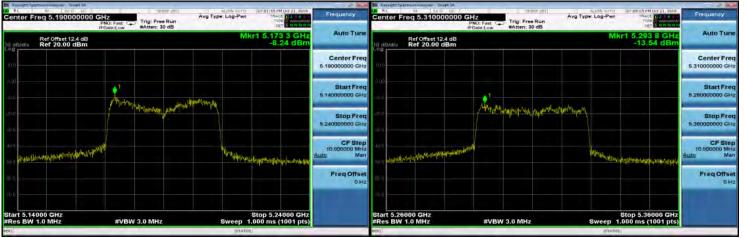
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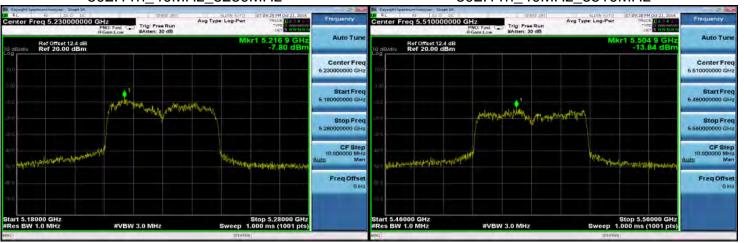


# 802.11n\_40MHz\_5310MHz



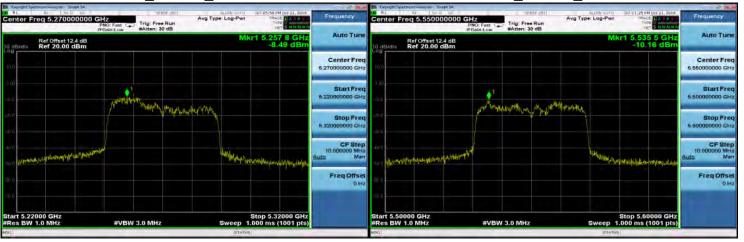
# 802.11n\_40MHz\_5230MHz

# 802.11n\_40MHz\_5510MHz



#### 802.11n 40MHz 5270MHz

#### 802.11n 40MHz 5550MHz



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# 802.11n\_40MHz\_5670MHz



# 802.11n\_40MHz\_5755MHz



# 802.11n 40MHz 5795MHz



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#### 11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

# **Standard Applicable**

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- 1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LII	MIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRE	NGTH AT 3m	
	PK: 74 (dBµV/m)	AV 54 (dBμV/m)	
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m	
15.407(b)(1)			
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)	
15.407(b)(3)			
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBµV/m) *1 PK:105.2 (dBµV/m) *2 PK: 110.8(dBµV/m) *3 PK:122.2 (dBµV/m) *4	

<sup>\*1</sup> beyond 75 MHz or more above of the bandedge.

EIRP =  $((E^*d)^2) / 30$ , where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts...

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<sup>\*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

<sup>\*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

<sup>\*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)				
0.009-0.490	2400/F(KHz)	300				
0.490-1.705	24000/F(KHz)	30				
1.705-30	30	30				
30-88	100	3				
88-216	150	3				
216-960	200	3				
Above 960	500	3				

#### Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level  $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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# 11.2 Measurement Equipment Used

SGS SAC-III								
Name of Equipment	Manufacturer	Model	Serial Num- ber	Calibration Date	Calibration Due			
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017			
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016			
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017			
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016			
Horn Antenna	Schwarzbeck	BBHA9170	185	07/18/2016	07/17/2017			
Pre Amplifier	EMC Instru- ments	EMC330	980096	12/12/2015	12/11/2016			
Pre Amplifier	EMC Instru- ments	EMC0011830	980199	12/12/2015	12/11/2016			
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016			
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016			
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016			
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016			
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016			
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016			
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016			
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016			
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016			
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017			
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017			
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017			
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.			
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.			
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.			
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.			

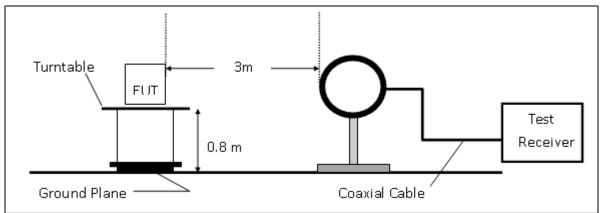
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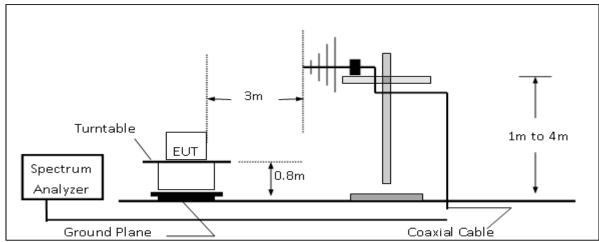
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#### 11.3 Test SET-UP

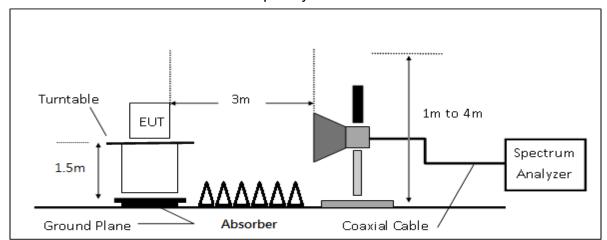
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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#### 11.4 Measurement Procedure

- The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequen-3. cy> 1GHz above ground plane.
- The turn table shall rotate 360 degrees to determine the position of maximum emission 4. level.
- EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) 6. and Quasi-peak (QP) at frequency below 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency 7. above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 11. Repeat above procedures until all frequency measured were complete.

#### 11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

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#### Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

# 11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

#### 11.7 **Measurement Result**

Refer to attach tabular data sheets.

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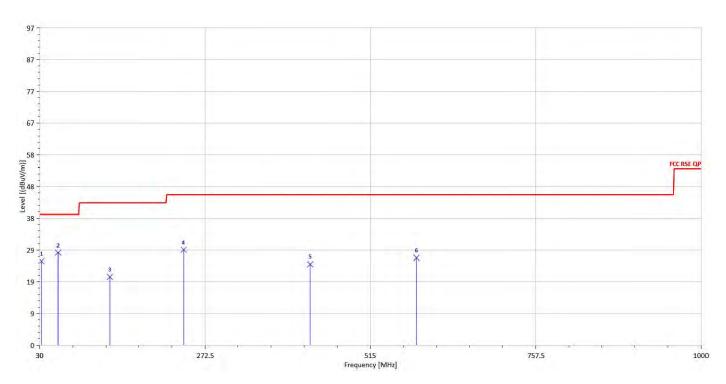
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# **Radiated Spurious Emission Measurement Result Below 1GHz Worst-Case Data:** 802.11a 5150~5250 MHz

802.11a 2016/10/19 Operation Mode: Test Date:

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
32.91	S	Peak	34.46	-8.75	25.71	40	-14.29
57.16	S	Peak	50.24	-21.98	28.25	40	-11.75
132.82	S	Peak	36.65	-15.76	20.89	43.5	-22.61
241.46	S	Peak	44.36	-15.21	29.15	46	-16.85
426.73	S	Peak	33.92	-9.14	24.79	46	-21.21
582.90	S	Peak	32.78	-6.08	26.70	46	-19.30

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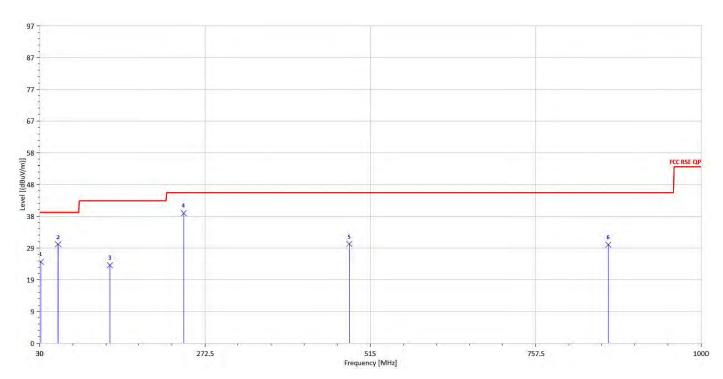


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	33.16	-8.22	24.94	40	-15.06
57.16	S	Peak	52.19	-21.98	30.21	40	-9.79
132.82	S	Peak	39.66	-15.76	23.90	43.5	-19.60
241.46	S	Peak	54.96	-15.21	39.75	46	-6.25
483.96	S	Peak	38.41	-8.06	30.35	46	-15.65
864.20	S	Peak	32.78	-2.70	30.08	46	-15.92

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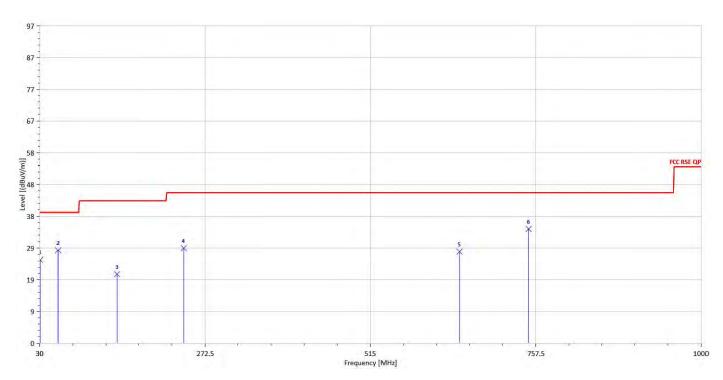


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#### 802.11a 5250~5350 MHz

Operation Mode: Test Date: 802.11a 2016/10/19 Temp. / Humi.: Fundamental Frequency: 5300 MHz 22.7deg\_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
30.97	S	Peak	33.21	-7.70	25.50	40	-14.50
57.16	S	Peak	50.33	-21.98	28.35	40	-11.65
143.49	S	Peak	37.44	-16.32	21.12	43.5	-22.38
241.46	S	Peak	44.23	-15.21	29.02	46	-16.98
645.95	S	Peak	32.73	-4.79	27.95	46	-18.05
746.83	S	Peak	39.19	-4.23	34.95	46	-11.05

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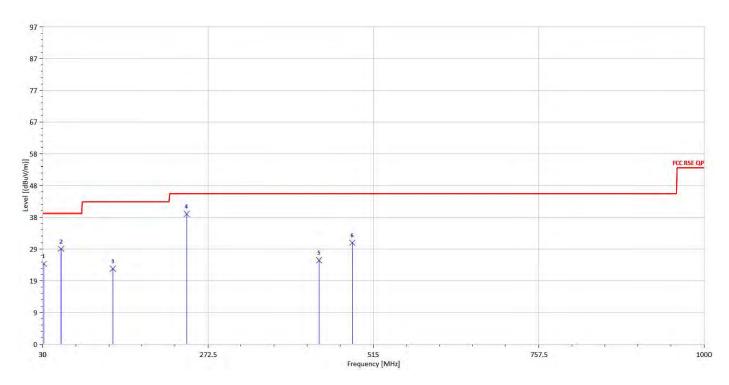


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5300 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	32.87	-8.22	24.65	40	-15.35
57.16	S	Peak	51.11	-21.98	29.13	40	-10.87
132.82	S	Peak	38.90	-15.76	23.14	43.5	-20.36
241.46	S	Peak	55.05	-15.21	39.83	46	-6.17
435.46	S	Peak	34.88	-9.20	25.69	46	-20.31
483.96	S	Peak	39.05	-8.06	30.99	46	-15.01

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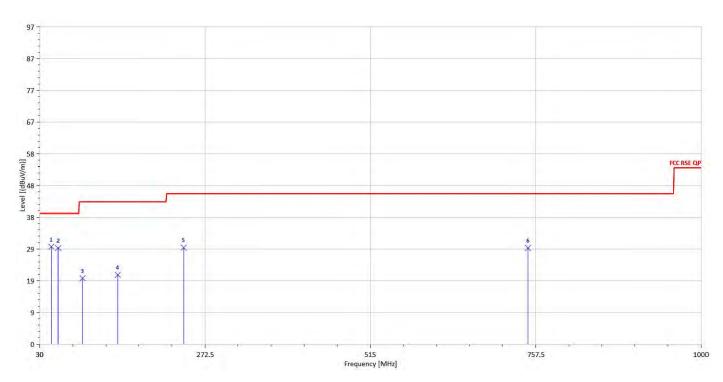


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#### 802.11a, 5470~5725 MHz

Operation Mode: 802.11a Test Date: 2016/10/19 Temp. / Humi.: Fundamental Frequency: 5580 MHz 22.7deg\_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
47.46	S	Peak	47.68	-17.91	29.77	40	-10.23
57.16	S	Peak	51.33	-21.98	29.35	40	-10.65
93.05	S	Peak	39.14	-18.95	20.19	43.5	-23.31
144.46	S	Peak	37.62	-16.39	21.23	43.5	-22.27
241.46	S	Peak	44.70	-15.21	29.49	46	-16.51
745.86	S	Peak	33.70	-4.35	29.35	46	-16.65

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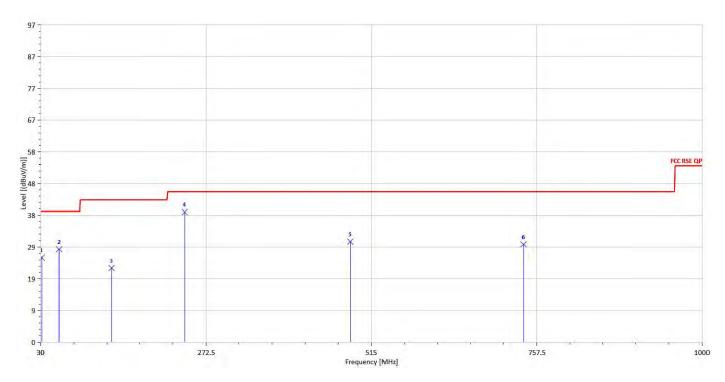


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5580 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mede	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
31.94	S	Peak	34.09	-8.22	25.87	40	-14.13
57.16	S	Peak	50.36	-21.98	28.37	40	-11.63
133.79	S	Peak	38.53	-15.82	22.71	43.5	-20.79
241.46	S	Peak	55.00	-15.21	39.79	46	-6.21
483.96	S	Peak	38.77	-8.06	30.70	46	-15.30
738.10	S	Peak	34.15	-4.25	29.90	46	-16.10

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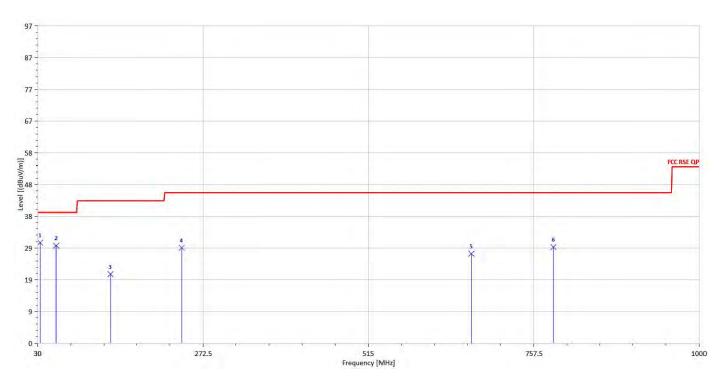


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#### 802.11a, 5725~5850 MHz

Operation Mode: Test Date: 802.11a 2016/10/19 Temp. / Humi.: Fundamental Frequency: 5785 MHz 22.7deg\_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
33.88	S	Peak	39.99	-9.27	30.71	40	-9.29
57.16	S	Peak	51.78	-21.98	29.79	40	-10.21
136.70	S	Peak	36.96	-15.82	21.14	43.5	-22.36
241.46	S	Peak	44.33	-15.21	29.11	46	-16.89
666.32	S	Peak	32.55	-5.25	27.30	46	-18.70
786.60	S	Peak	33.82	-4.49	29.34	46	-16.66

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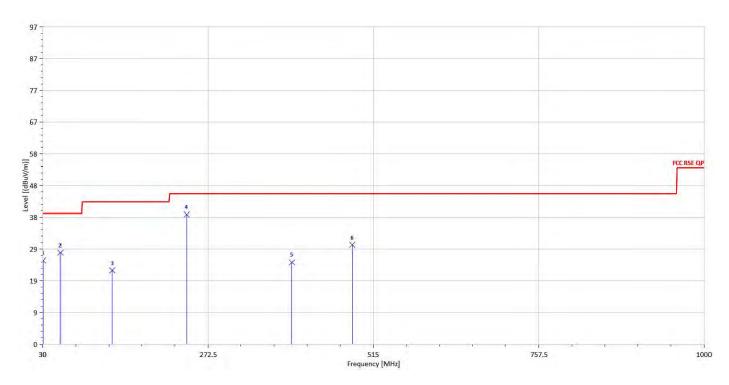


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
30.97	S	Peak	33.34	-7.70	25.64	40	-14.36
56.19	S	Peak	49.55	-21.59	27.96	40	-12.04
131.85	S	Peak	38.34	-15.71	22.63	43.5	-20.87
241.46	S	Peak	54.87	-15.21	39.65	46	-6.35
395.69	S	Peak	34.96	-9.88	25.07	46	-20.93
483.96	S	Peak	38.43	-8.06	30.36	46	-15.64

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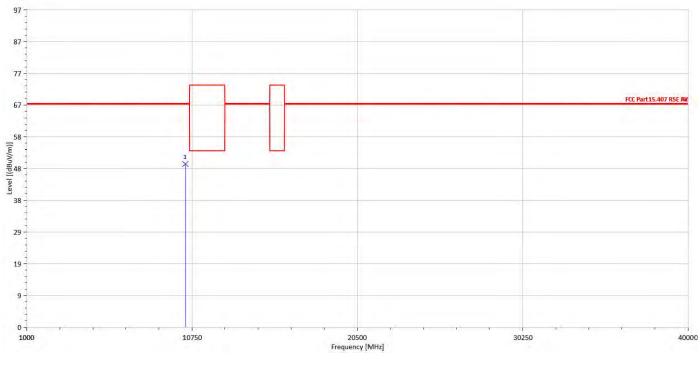
#### **Above 1GHz Worst-Case Data:**

# Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode: Test Date: 802.11a 2016/10/19

Fundamental Frequency: 22.7deg\_C/57RH 5180 MHz Temp. / Humi.:

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10360.00	Н	Peak	29.75	20.18	49.93	68.3	-18.37

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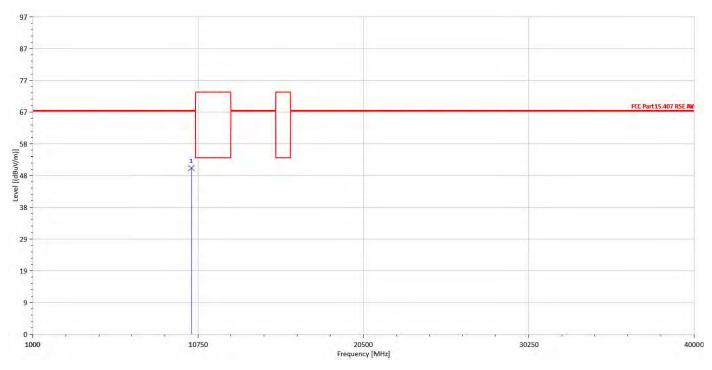


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10360.00	Н	Peak	30.65	20.18	50.83	68.3	-17.47	

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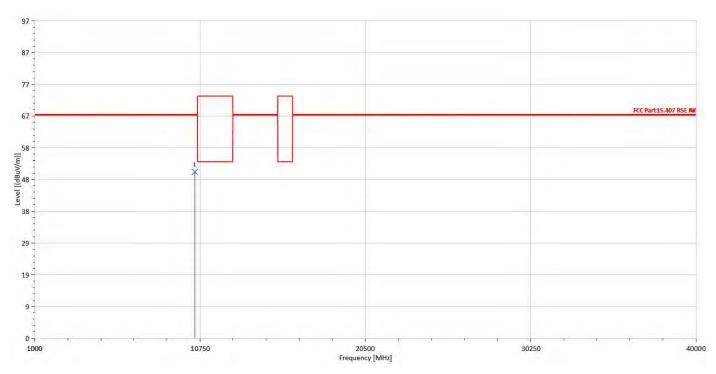


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10440.00	Н	Peak	30.59	20.29	50.88	68.3	-17.42	

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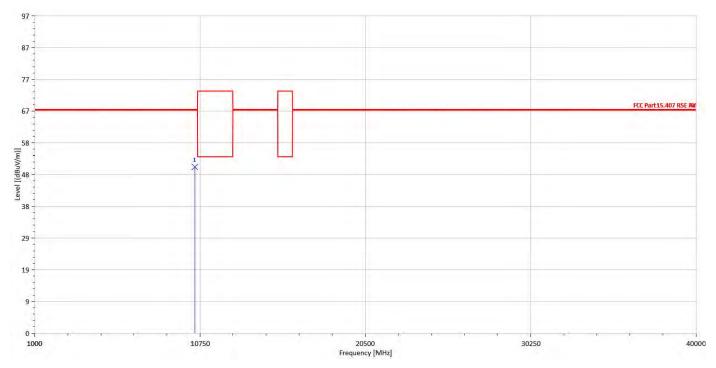


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10440.00	Н	Peak	30.57	20.29	50.87	68.3	-17.43	

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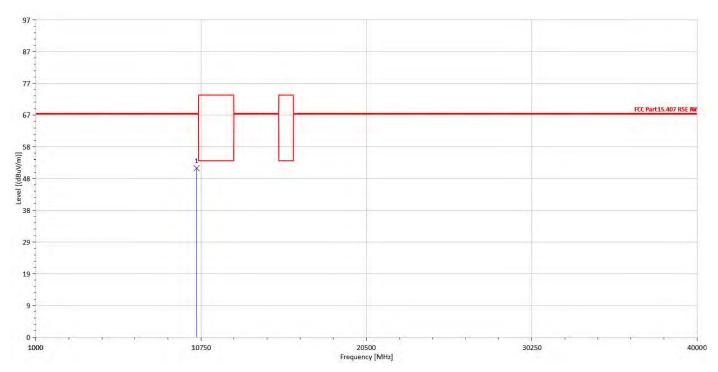


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5240 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



	Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
	MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB	_
•	10480.00	H	Peak	31.02	20.68	51.70	68.3	-16.60	•

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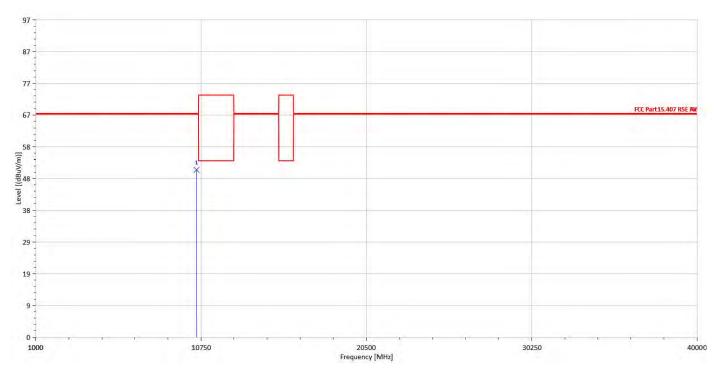


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5240 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10480.00	Н	Peak	30.53	20.68	51.21	68.3	-17.09	

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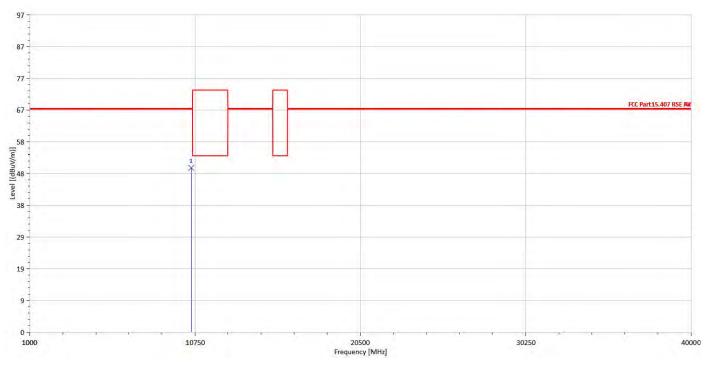
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# Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5260 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10520.00	Н	Peak	30.18	20.10	50.28	68.3	-18.02

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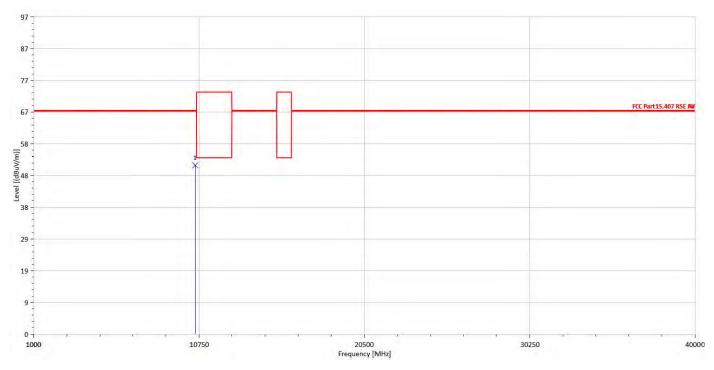


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5260 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10520.00	Н	Peak	31.57	20.10	51.67	68.3	-16.63	

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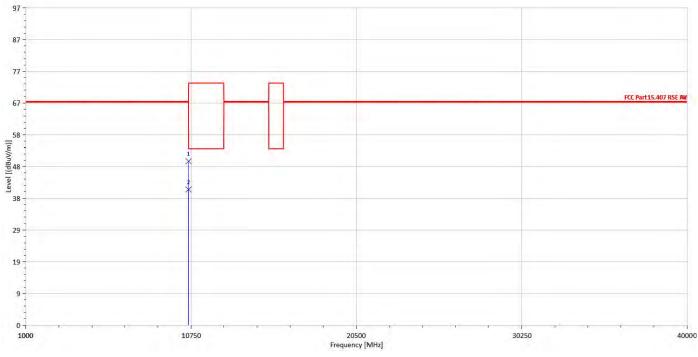


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5300 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10600.00	Н	Peak	29.98	20.17	50.15	74	-23.85
10600.00	Н	Average	21.27	20.17	41.44	54	-12.56

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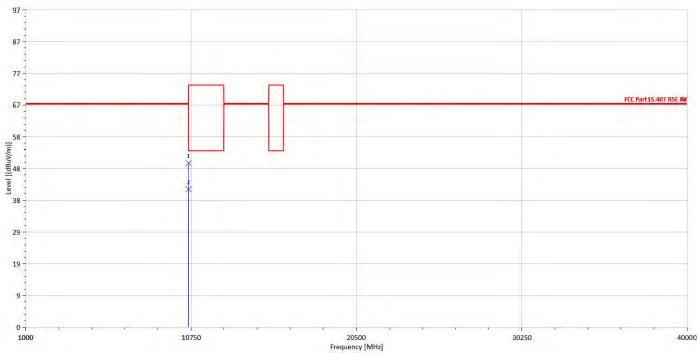


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5300 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10600.00	Н	Peak	29.99	20.17	50.15	74	-23.85
10600.00	Н	Average	21.94	20.17	42.11	54	-11.89

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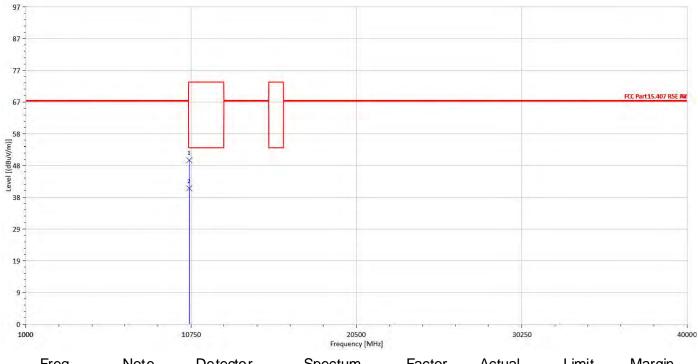


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



				The same of the sa					
	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin	
			Mode	Reading Level		FS	@3m		
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	_
•	10640.00	Н	Peak	29.83	20.34	50.17	74	-23.83	
	10640.00	Н	Average	21.16	20.34	41.50	54	-12.50	

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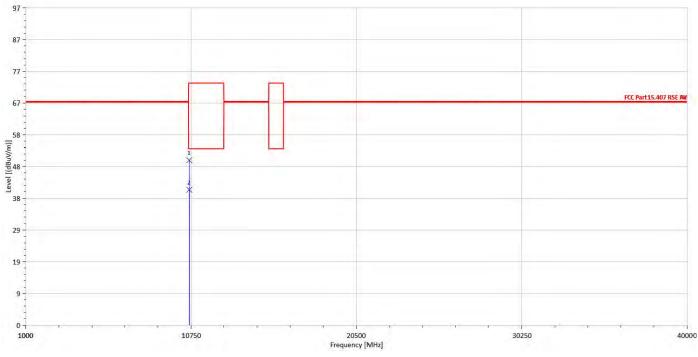


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10640.00	Н	Peak	30.12	20.34	50.47	74	-23.53
10640.00	Н	Average	21.01	20.34	41.35	54	-12.65

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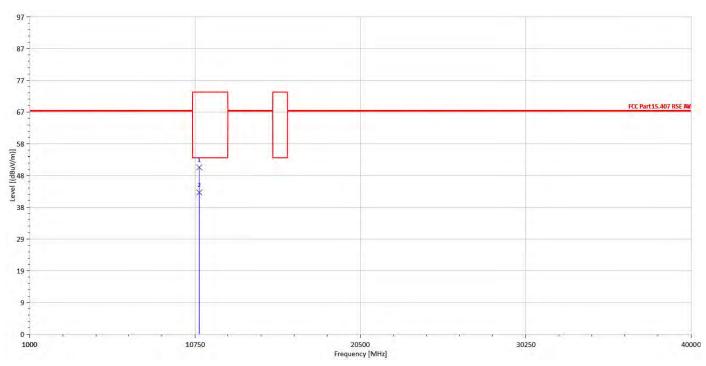
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#### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode: 802.11a Test Date: 2016/10/19

22.7deg\_C/57RH Fundamental Frequency: 5500 MHz Temp. / Humi.:

Test Engineer: Operation Band: Tx CH Low Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum 5 ct	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11000.00	Н	Peak	28.95	22.11	51.06	74	-22.94
11000.00	Н	Average	21.21	22.11	43.32	54	-10.68

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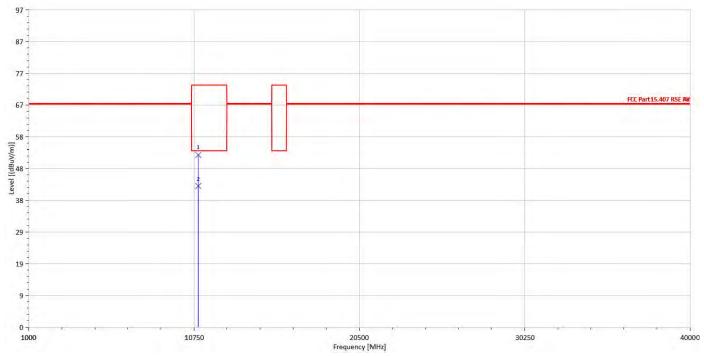


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11000.00	Н	Peak	30.59	22.11	52.70	74	-21.30
11000.00	Н	Average	21.03	22.11	43.14	54	-10.86

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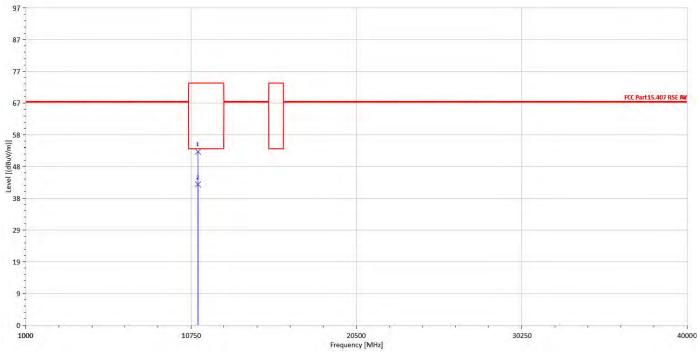


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5580 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11160.00	Н	Peak	31.05	22.04	53.09	74	-20.91
11160.00	Н	Average	20.95	22.04	42.99	54	-11.01

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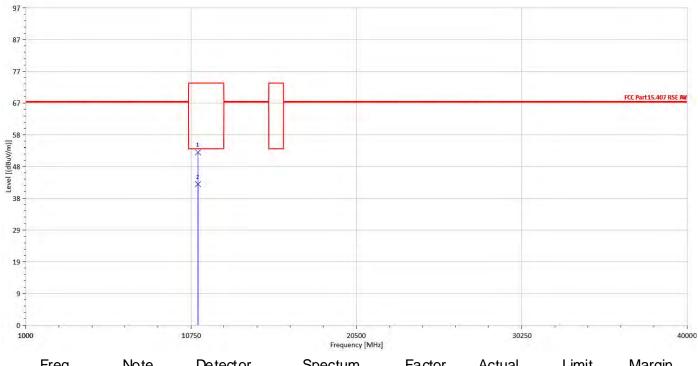


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5580 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
11160.00	Н	Peak	30.88	22.04	52.91	74	-21.09	
11160.00	Н	Average	21.04	22.04	43.08	54	-10.92	

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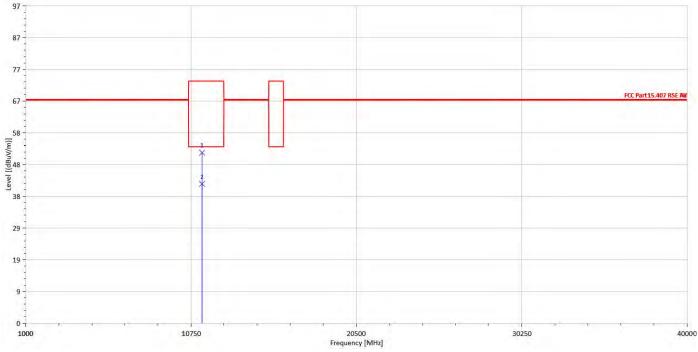


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11400.00	Н	Peak	30.98	21.22	52.19	74	-21.81
11400.00	Н	Average	21.34	21.22	42.56	54	-11.44

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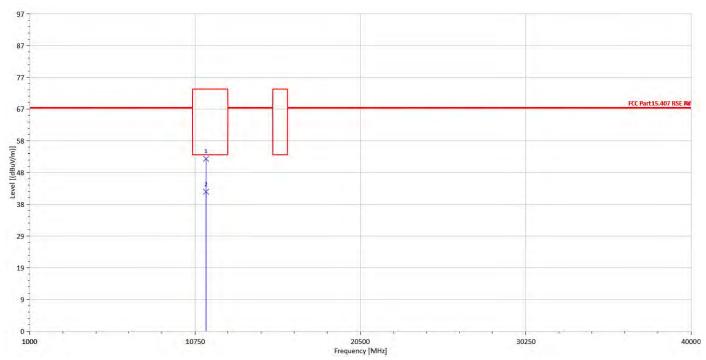


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
 MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11400.00	Н	Peak	31.56	21.22	52.77	74	-21.23
11400.00	Н	Average	21.39	21.22	42.61	54	-11.39

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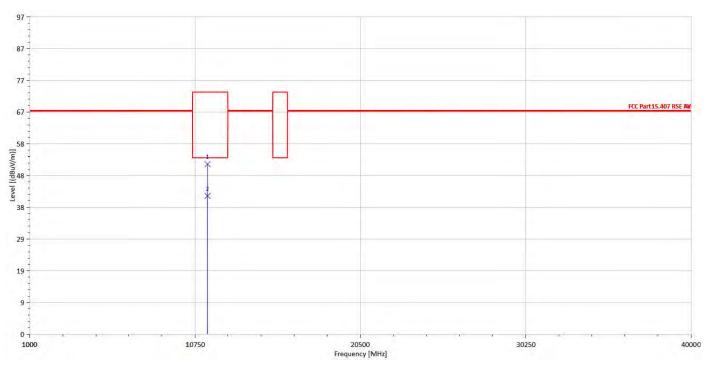
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#### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode: 802.11a Test Date: 2016/10/19

Temp. / Humi.: Fundamental Frequency: 5745 MHz 22.7deg\_C/57RH

Test Engineer: Operation Band: Tx CH Low Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11490.00	Н	Peak	31.34	20.70	52.04	74	-21.96
11490.00	Н	Average	21.52	20.70	42.22	54	-11.78

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台灣檢驗科技股份有限公司

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f (886-2) 2298-0488

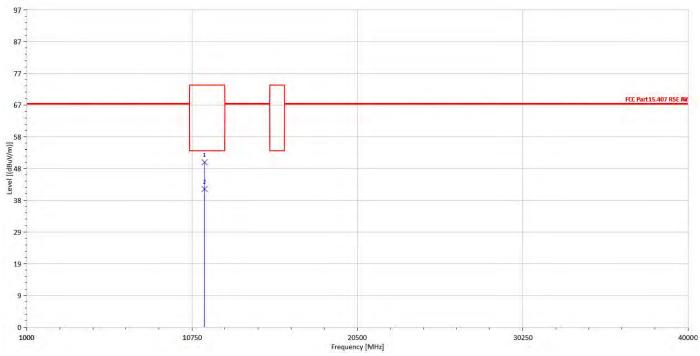


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Fred	ı. Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MH:	z F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
11490	.00 H	Peak	29.76	20.70	50.46	74	-23.54
11490	.00 H	Average	21.49	20.70	42.19	54	-11.81

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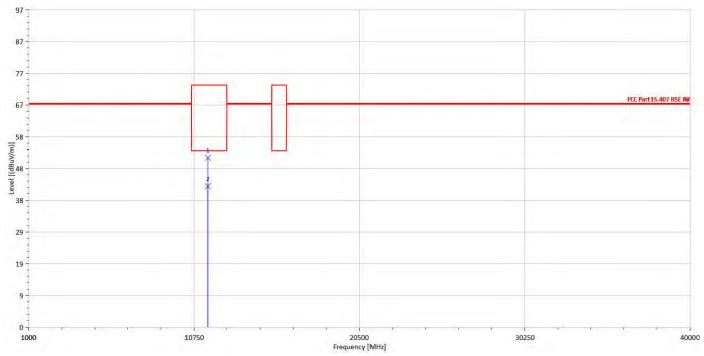


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11570.00	Н	Peak	30.40	21.44	51.84	74	-22.16
11570.00	Н	Average	21.63	21.44	43.07	54	-10.93

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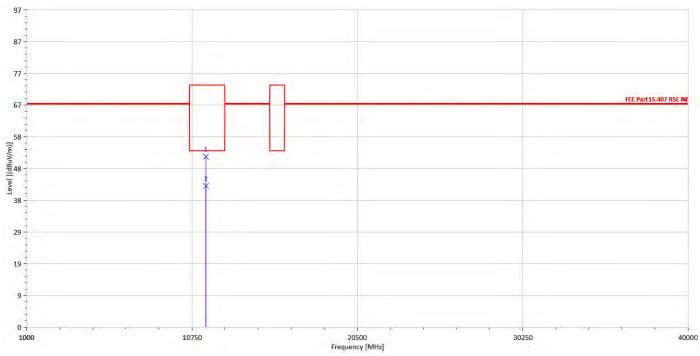


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11570.00	Н	Peak	30.76	21.44	52.20	74	-21.80
11570.00	Н	Average	21.71	21.44	43.15	54	-10.85

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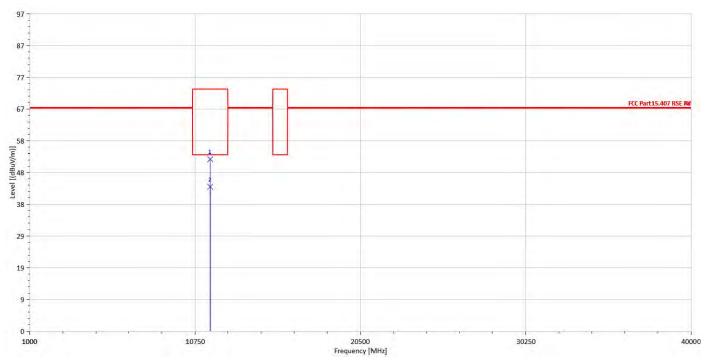


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@ 3m	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
_	11650.00	Н	Peak	30.62	22.02	52.64	74	-21.36
•	11650.00	Н	Average	22.12	22.02	44.14	54	-9.86

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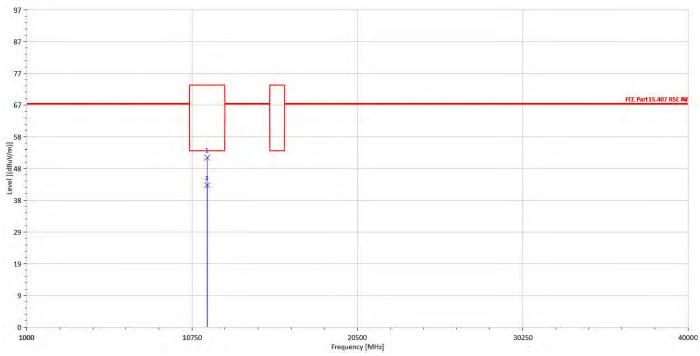


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Operation Mode: 802.11a Test Date: 2016/10/19

Fundamental Frequency: 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11650.00	Н	Peak	29.87	22.02	51.89	74	-22.11
11650.00	Н	Average	21.35	22.02	43.37	54	-10.63

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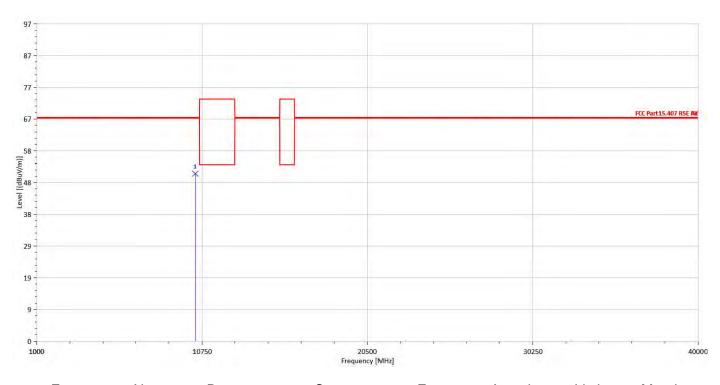
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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10360.00	Н	Peak	31.07	20.18	51.25	68.3	-17.05

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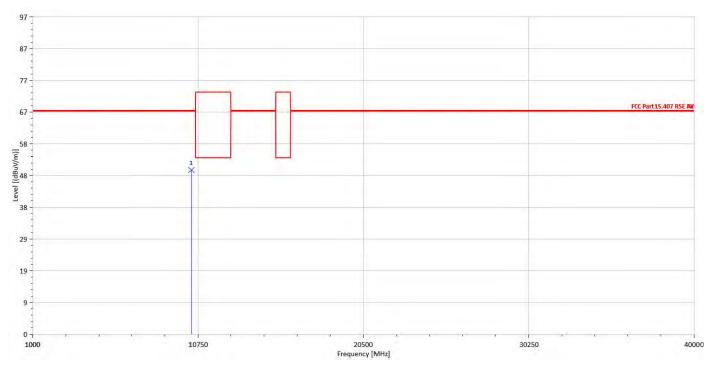


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10360.00	Н	Peak	30.03	20.18	50.21	68.3	-18.09	

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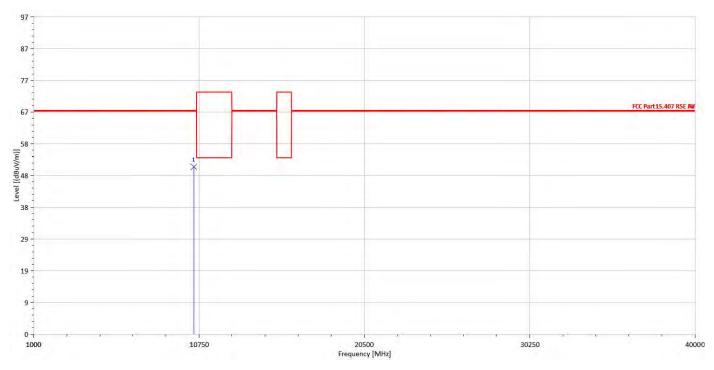


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
-	10440.00	Н	Peak	30.93	20.29	51.22	68.3	-17.08	

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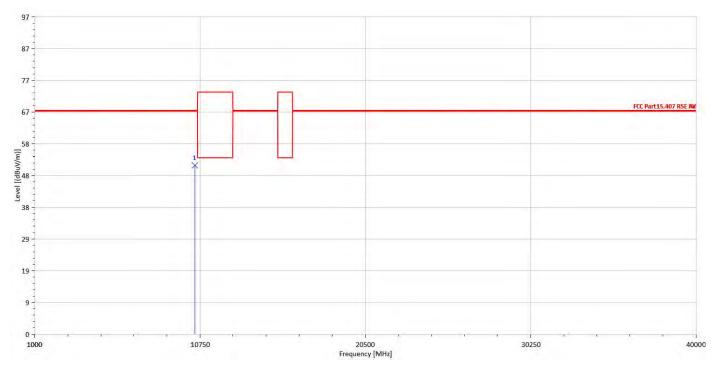


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



	Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
-	10440.00	Н	Peak	31.36	20.29	51.66	68.3	-16.64	

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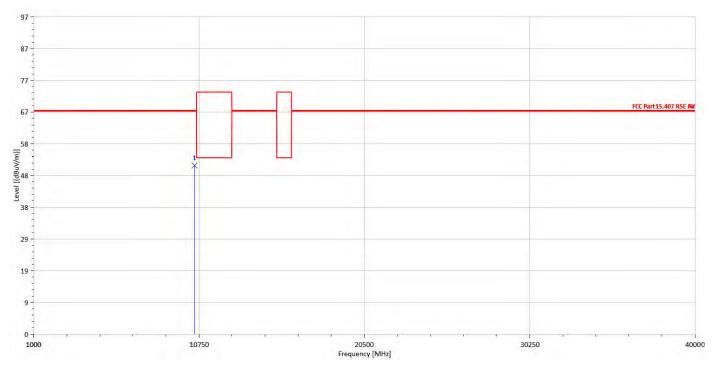


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5240 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
-	10480.00	Н	Peak	30.94	20.68	51.62	68.3	-16.68	

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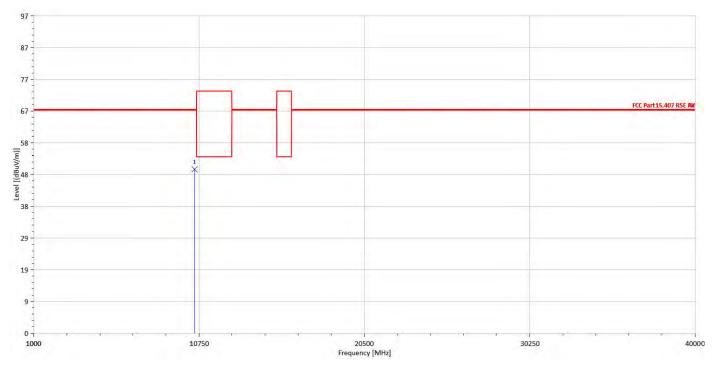


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5240 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10480.00	Н	Peak	29.46	20.68	50.14	68.3	-18.16

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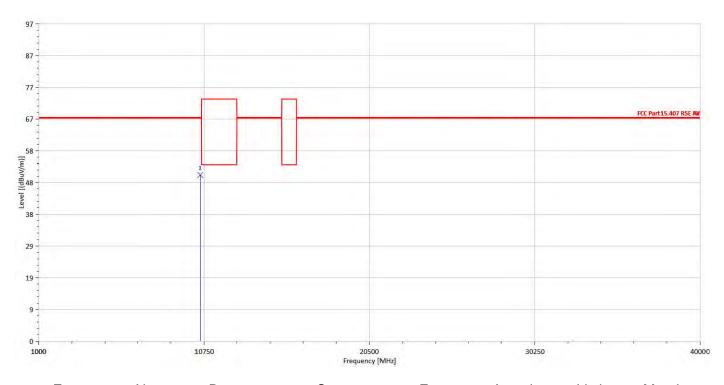
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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5260 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10520.00	Н	Peak	30.75	20.10	50.85	68.3	-17.45

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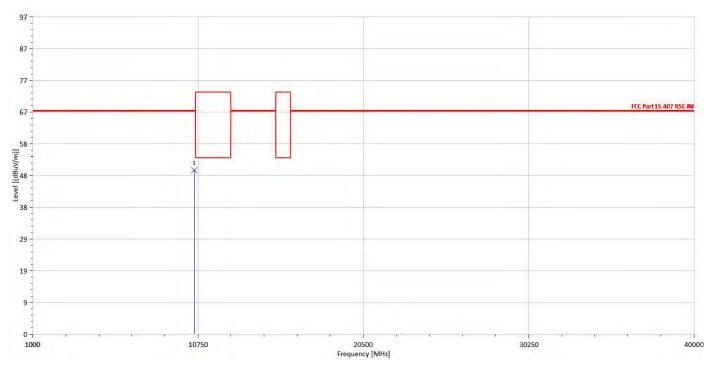


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5260 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10520.00	Н	Peak	30.05	20.10	50.15	68.3	-18.15	

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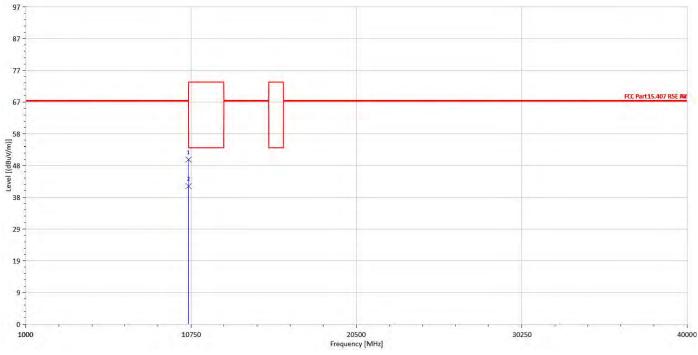


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5300 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10600.00	Н	Peak	30.19	20.17	50.36	74	-23.64
10600.00	Н	Average	21.98	20.17	42.15	54	-11.85

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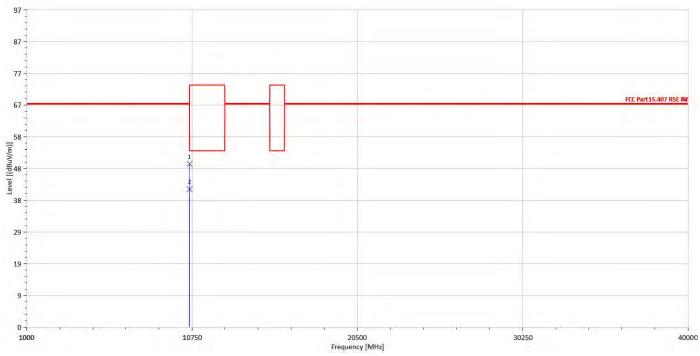


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5300 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10600.00	Н	Peak	29.80	20.17	49.97	74	-24.03
10600.00	Н	Average	21.96	20.17	42.13	54	-11.87

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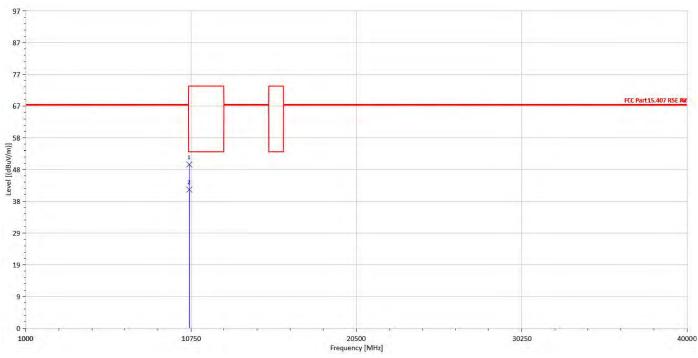


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5320 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10640.00	Н	Peak	29.75	20.34	50.10	74	-23.90
10640.00	Н	Average	21.98	20.34	42.32	54	-11.68

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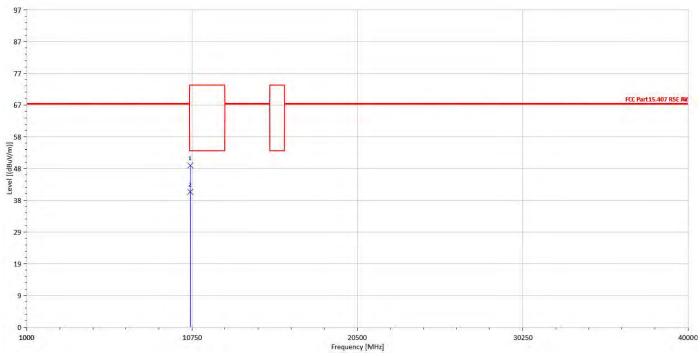


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5320 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Fre	q. Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MH	z F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10640	).00 H	Peak	29.14	20.34	49.48	74	-24.52
10640	).00 H	Average	20.98	20.34	41.32	54	-12.68

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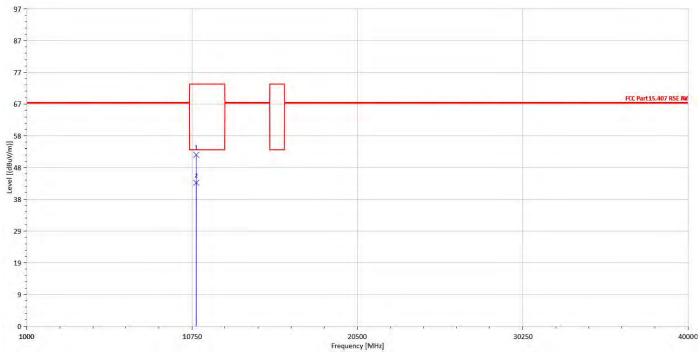
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11000.00	Н	Peak	30.34	22.11	52.44	74	-21.56
11000.00	Н	Average	21.71	22.11	43.82	54	-10.18

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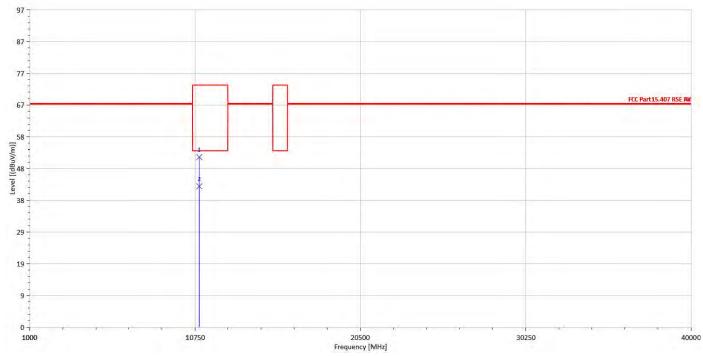


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11000.00	Н	Peak	29.94	22.11	52.05	74	-21.95
11000.00	Н	Average	20.95	22.11	43.06	54	-10.94

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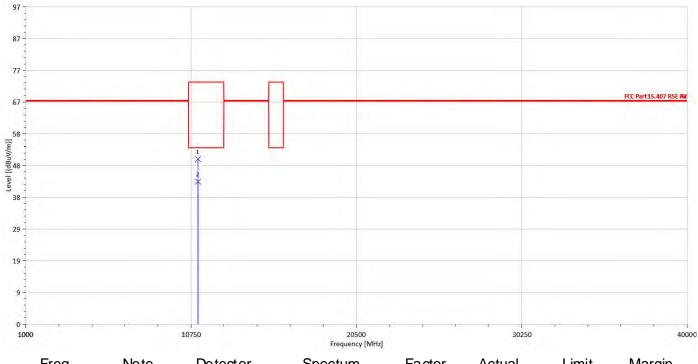


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5580 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11160.00	Н	Peak	28.46	22.04	50.50	74	-23.50
11160.00	Н	Average	21.53	22.04	43.57	54	-10.43

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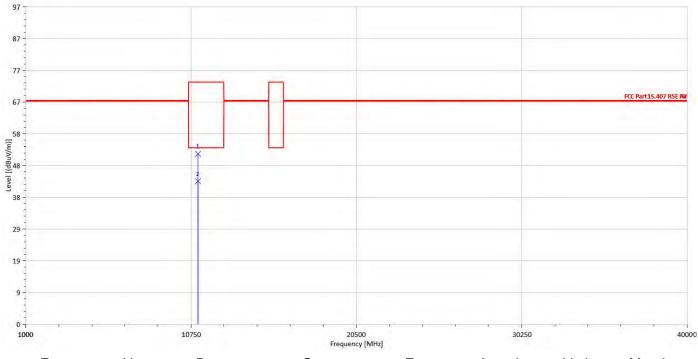


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5580 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11160.00	Н	Peak	30.06	22.04	52.10	74	-21.90
11160.00	Н	Average	21.65	22.04	43.69	54	-10.31

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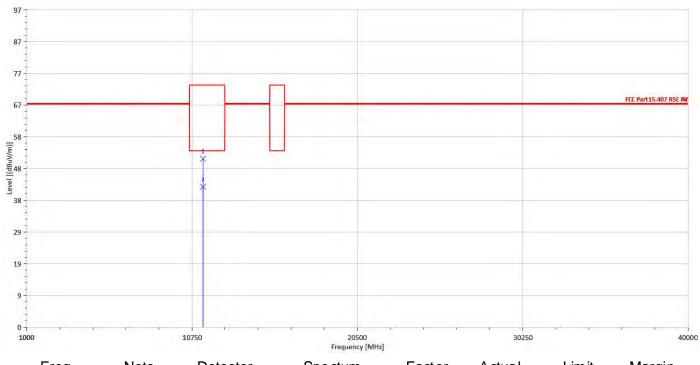


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5700 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11400.00	Н	Peak	30.32	21.22	51.53	74	-22.47
11400.00	Н	Average	21.69	21.22	42.91	54	-11.09

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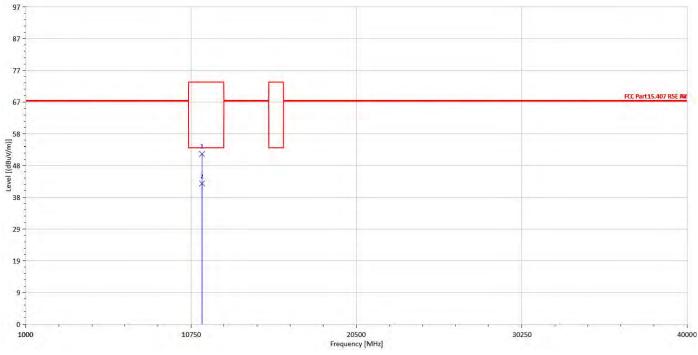


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5700 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11400.00	Н	Peak	30.88	21.22	52.10	74	-21.90
11400.00	Н	Average	21.74	21.22	42.96	54	-11.04

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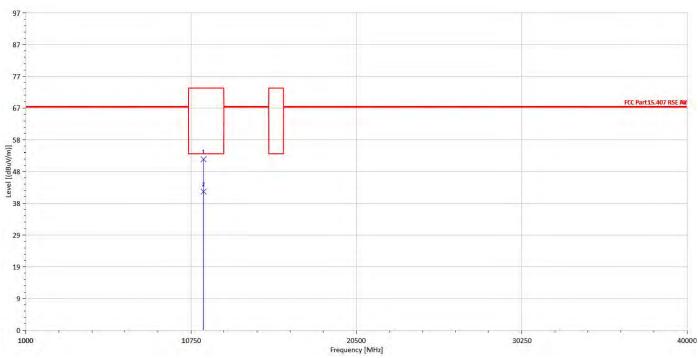
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@ 3m	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
-	11490.00	Н	Peak	31.61	20.70	52.31	74	-21.69
	11490.00	Н	Average	21.62	20.70	42.32	54	-11.68

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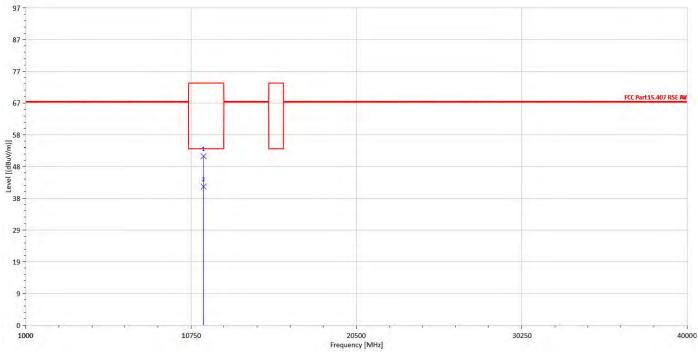


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11490.00	Н	Peak	30.99	20.70	51.70	74	-22.30
11490.00	Н	Average	21.62	20.70	42.32	54	-11.68

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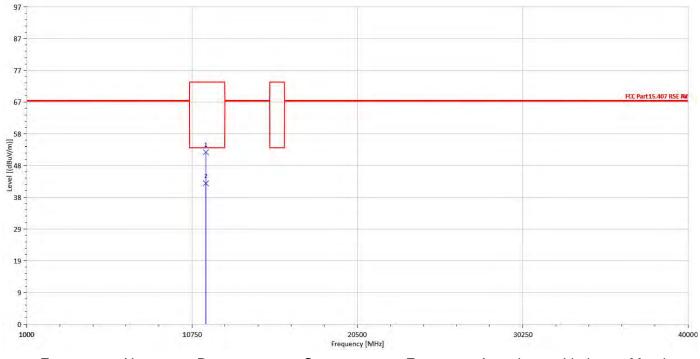


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11570.00	Н	Peak	31.18	21.44	52.62	74	-21.38
11570.00	Н	Average	21.57	21.44	43.01	54	-10.99

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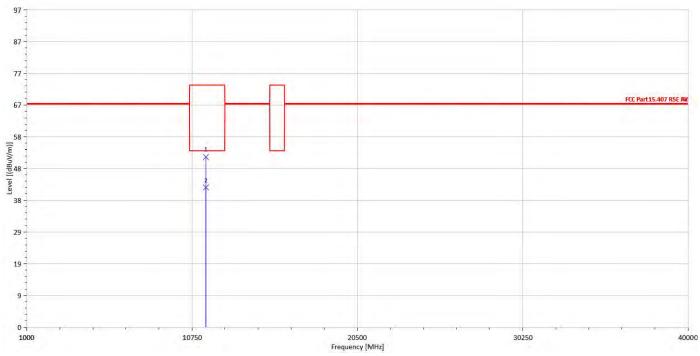


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11570.00	Н	Peak	30.62	21.44	52.07	74	-21.93
11570.00	Н	Average	21.25	21.44	42.69	54	-11.31

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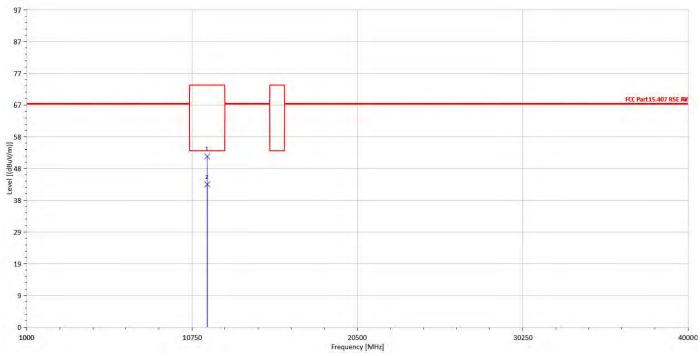


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5825 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11650.00	) Н	Peak	30.25	22.02	52.28	74	-21.72
11650.00	) H	Average	21.61	22.02	43.63	54	-10.37

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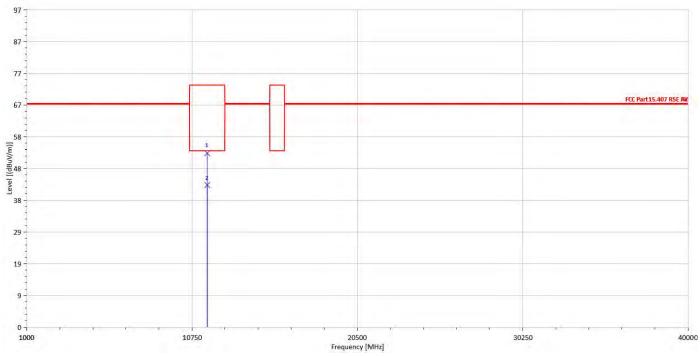


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Operation Mode: 802.11n20 Test Date: 2016/10/19

Fundamental Frequency: 5825 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11650.00	Н	Peak	31.24	22.02	53.26	74	-20.74
11650.00	Н	Average	21.41	22.02	43.43	54	-10.57

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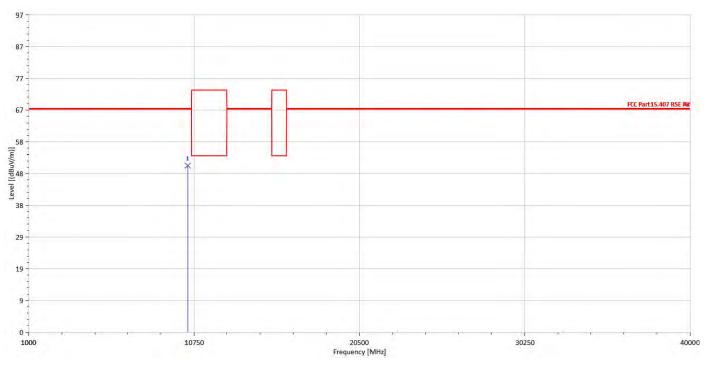
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5190 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
-	10380.00	Н	Peak	30.02	20.95	50.97	68.3	-17.33

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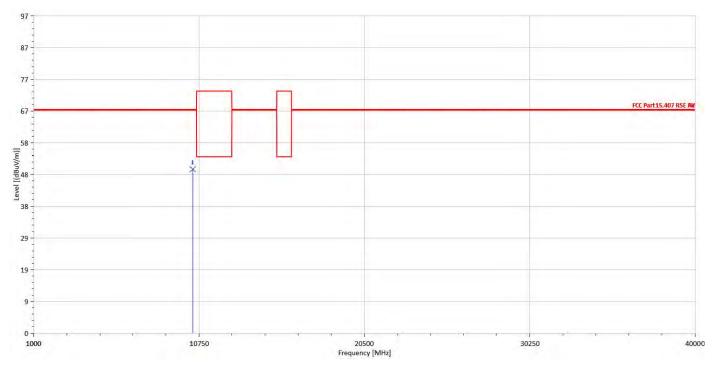


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5190 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



	Freq.	Note	De tecto r Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
•	10380.00	Н	Peak	29.18	20.95	50.13	68.3	-18.17	

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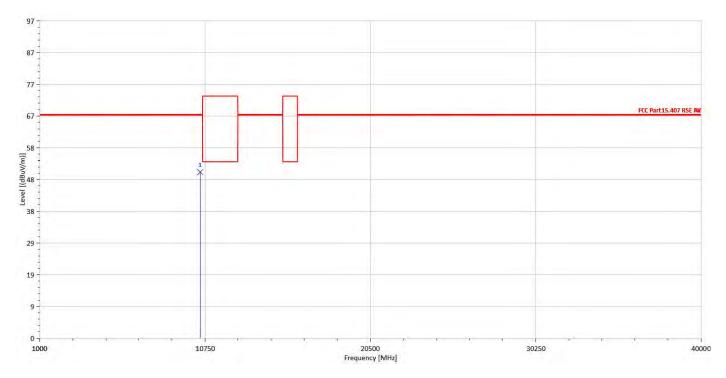


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5230 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
-	10460.00	Н	Peak	29.85	20.95	50.80	68.3	-17.50

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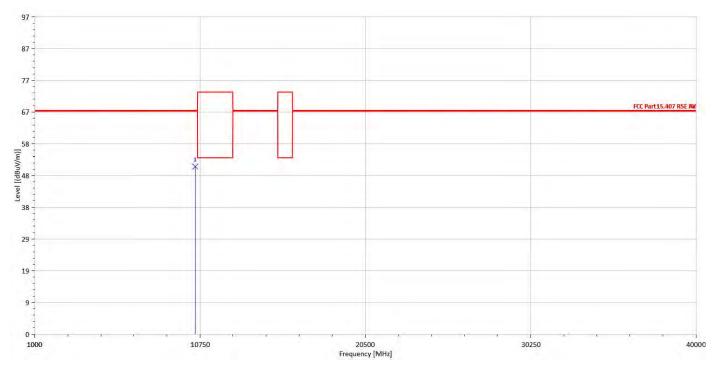


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5230 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10460.00	Н	Peak	30.34	20.95	51.29	68.3	-17.01	

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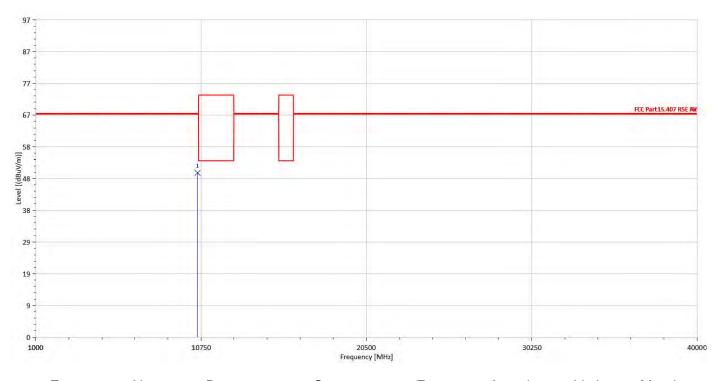
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5270 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10540.00	Н	Peak	30.21	20.06	50.27	68.3	-18.03

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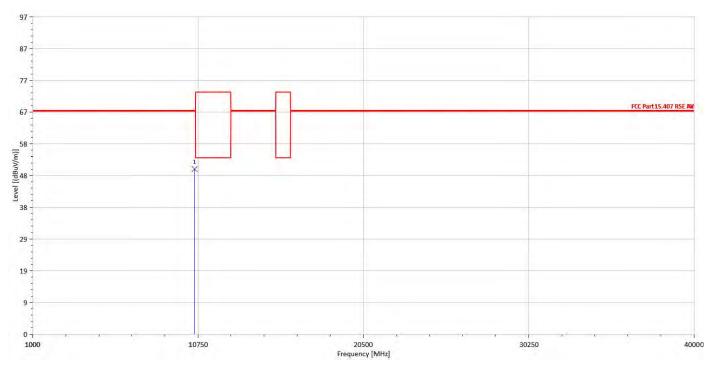


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5270 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
10540.00	Н	Peak	30.46	20.06	50.52	68.3	-17.78	

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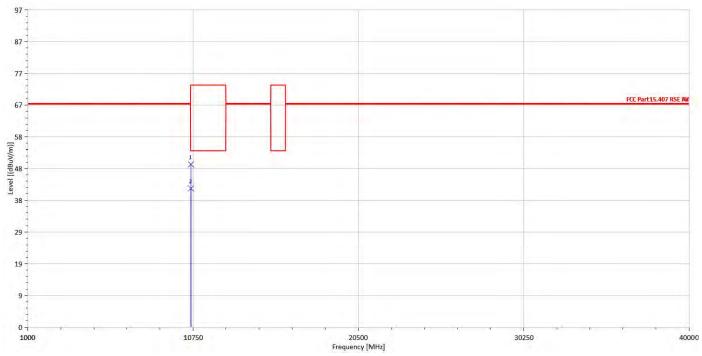


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5310 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10620.00	Н	Peak	29.51	20.29	49.80	74	-24.20
10620.00	Н	Average	22.09	20.29	42.38	54	-11.62

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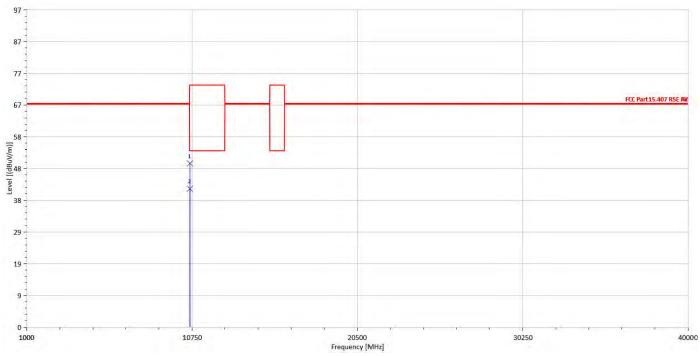


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5310 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10620.00	Н	Peak	29.81	20.29	50.10	74	-23.90
10620.00	Н	Average	21.98	20.29	42.27	54	-11.73

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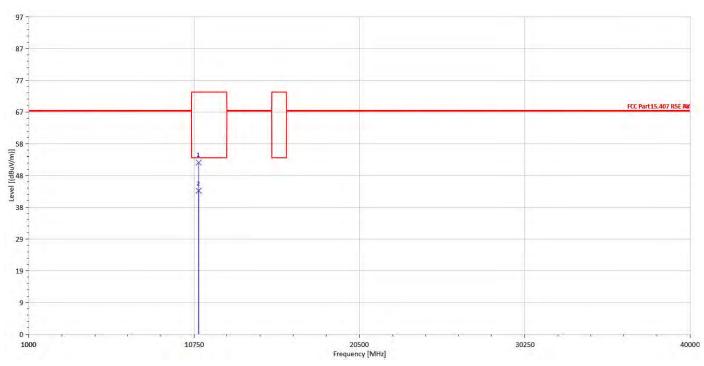
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5510 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum 5 ct	Factor	Actual	Lim it	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11020.00	Н	Peak	29.62	22.90	52.52	74	-21.48
11020.00	Н	Average	20.95	22.90	43.85	54	-10.15

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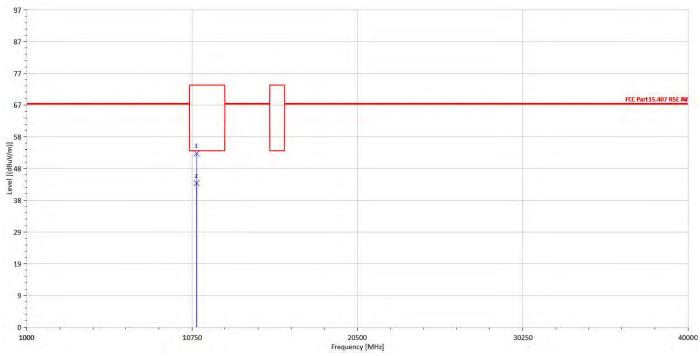


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5510 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11020.00	Н	Peak	30.28	22.90	53.18	74	-20.82
11020.00	Н	Average	21.12	22.90	44.02	54	-9.98

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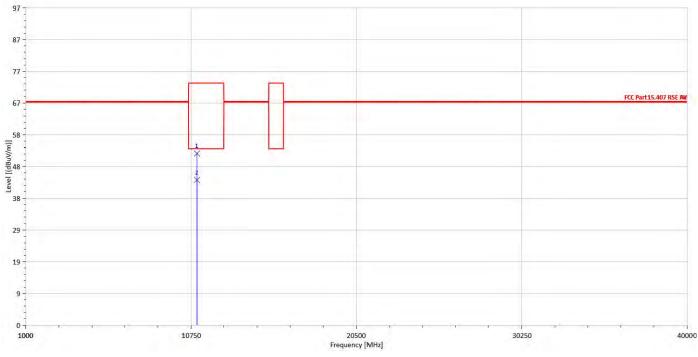


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5550 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
11100.00	Н	Peak	29.37	23.16	52.54	74	-21.46
11100.00	Н	Average	21.19	23.16	44.35	54	-9.65

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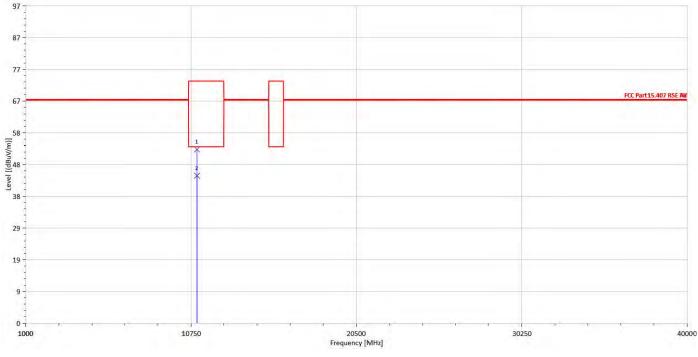


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5550 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11100.00	Н	Peak	30.03	23.16	53.19	74	-20.81
11100.00	Н	Average	21.92	23.16	45.08	54	-8.92

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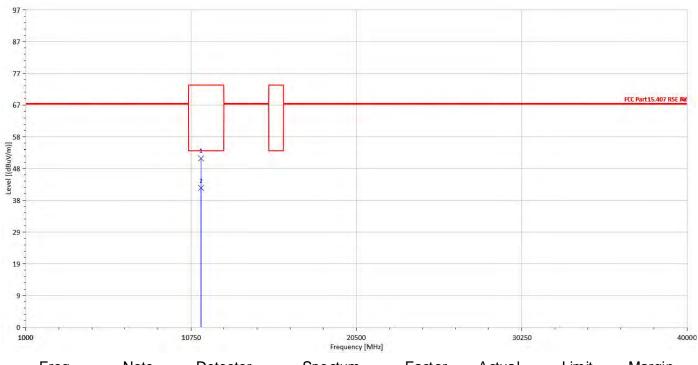


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5670 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11340.00	Н	Peak	30.68	20.97	51.65	74	-22.35
11340.00	Н	Average	21.58	20.97	42.55	54	-11.45

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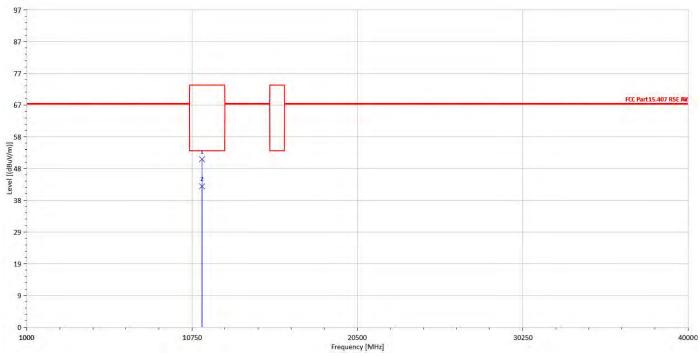


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5670 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11340.00	Н	Peak	30.43	20.97	51.40	74	-22.60
11340.00	Н	Average	22.06	20.97	43.03	54	-10.97

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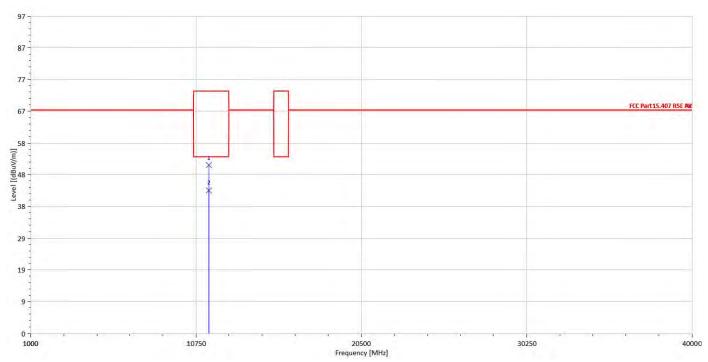
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode: 802.11n40 Test Date: 2016/10/19

Temp. / Humi.: Fundamental Frequency: 5755 MHz 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton Measurement Antenna Pol.: EUT Pol.: E2 Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
11510.00	Н	Peak	29.29	22.17	51.45	74	-22.55
11510.00	Н	Average	21.62	22.17	43.79	54	-10.21

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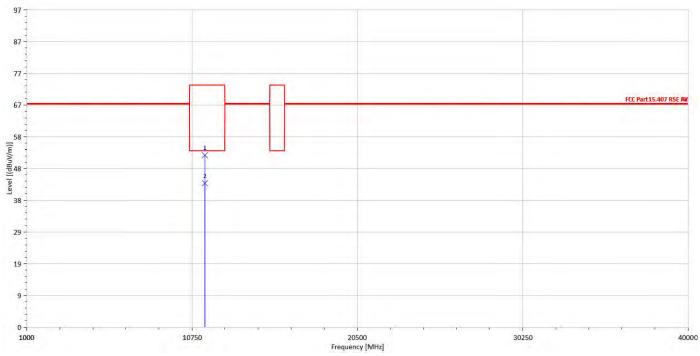


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5755 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11510.00	Н	Peak	30.48	22.17	52.64	74	-21.36
11510.00	Н	Average	21.82	22.17	43.99	54	-10.01

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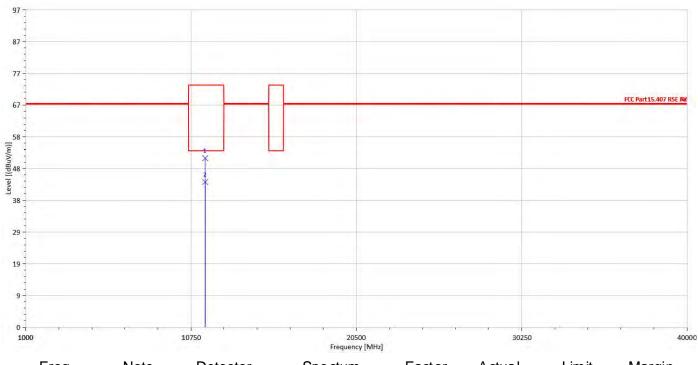


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5795 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11590.00	Н	Peak	29.87	21.84	51.72	74	-22.28
11590.00	Н	Average	22.51	21.84	44.35	54	-9.65

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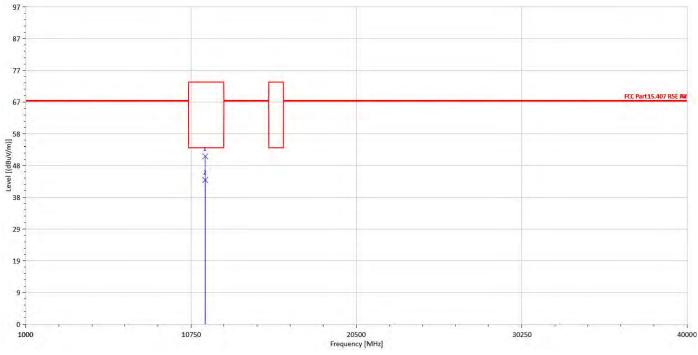


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5795 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11590.00	Н	Peak	29.52	21.84	51.36	74	-22.64
11590.00	Н	Average	22.21	21.84	44.05	54	-9.95

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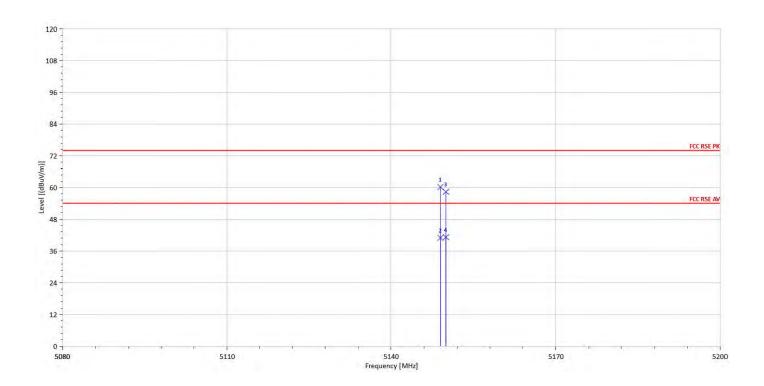
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# Band edge falling to restricted band 802.11a mode

Operation Mode: Test Date: 2016/10/18 802.11a

Fundamental Frequency: 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH LOW Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBµV/m	dBµV/m	dB
i							
5149.00	S	Peak	52.02	8.19	60.20	74	-13.80
5149.00	S	Average	32.80	8.19	40.99	54	-13.01
5150.00	Е	Peak	50.20	8.19	58.39	74	-15.61
5150.00	Ε	Average	33.05	8.19	41.24	54	-12.76

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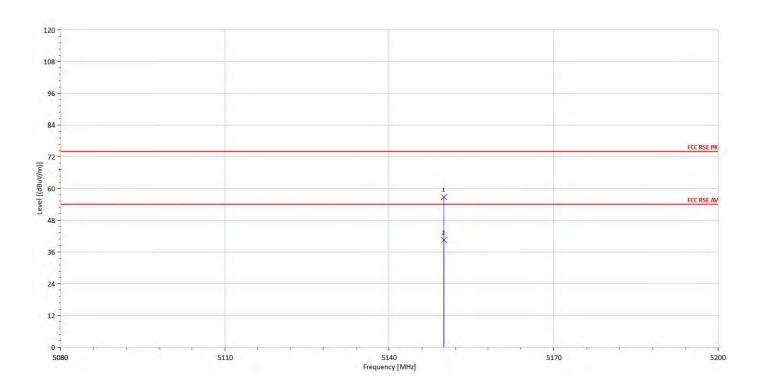


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Operation Mode: 802.11a Test Date: 2016/10/18 Fundamental Frequency: 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Pony BE CH LOW Test Engineer:

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
5150.00	E	Peak	48.57	8.19	56.76	74	-17.24
5150.00	E	Average	32.39	8.19	40.58	54	-13.42

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t (886-2) 2299-3279

f (886-2) 2298-0488

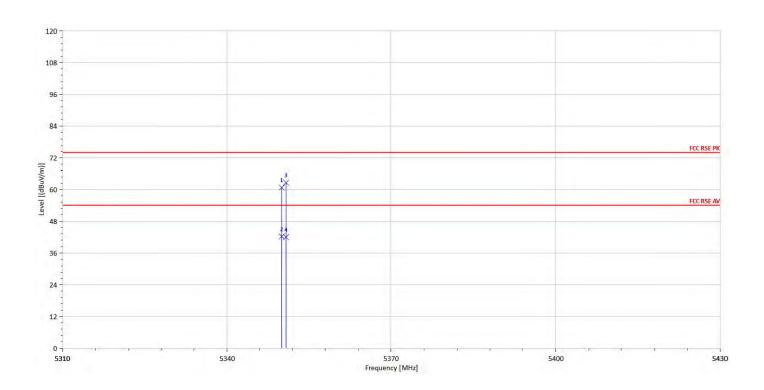


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: Temp. / Humi.: 5320 MHz 22.7deg\_C/57RH

Operation Band: Test Engineer: BE CH HIGH Pony EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	51.81	8.96	60.77	74	-13.23
5350.00	E	Average	33.34	8.96	42.30	54	-11.70
5350.80	S	Peak	53.66	8.98	62.64	74	-11.36
5350.80	S	Average	33.04	8.98	42.02	54	-11.98

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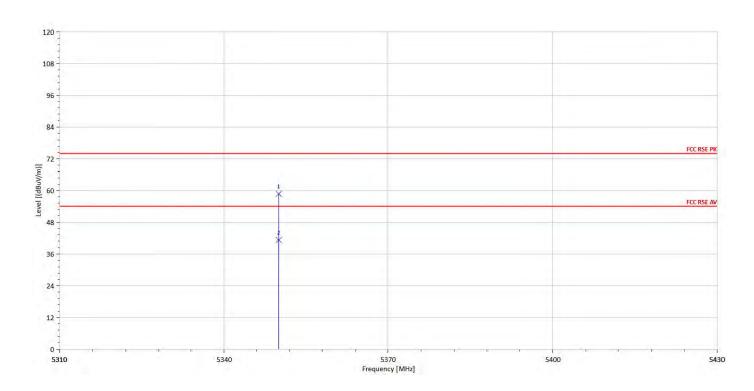


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5320 MHz Temp. / Humi.: 22.7deg\_C/57RH Operation Band: BE CH HIGH Test Engineer: Pony

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector 5 cm	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	49.77	8.96	58.73	74	-15.27
5350.00	E	Average	32.33	8.96	41.29	54	-12.71

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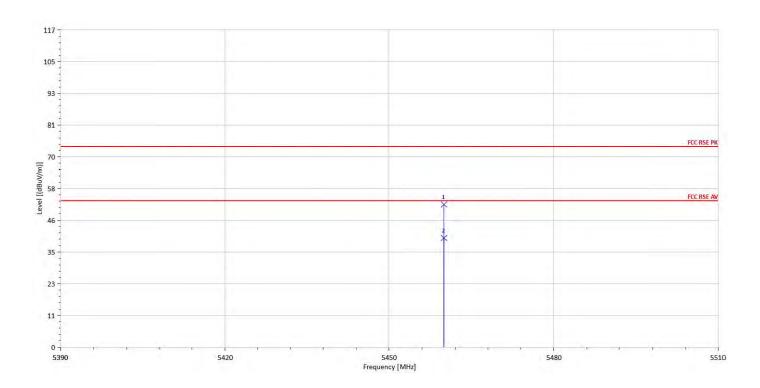


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Pony BE CH Low Test Engineer: EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector 5 cm	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5460.00	E	Peak	43.71	8.88	52.59	74	-21.41
5460.00	E	Average	31.41	8.88	40.29	54	-13.71

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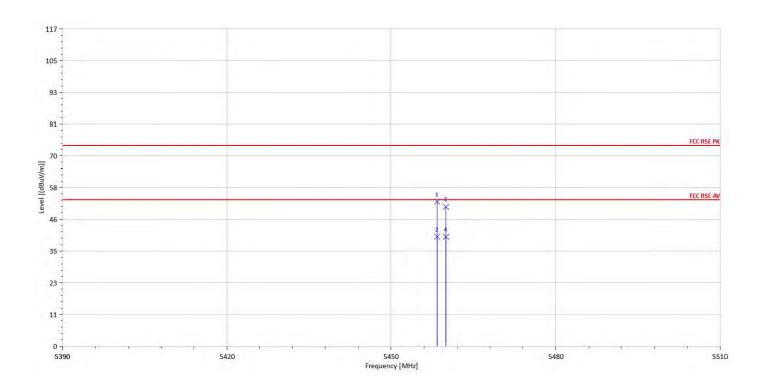


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Pony BE CH Low Test Engineer: EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5458.40	S	Peak	44.40	8.90	53.30	74	-20.70
5458.40	S	Average	31.48	8.90	40.38	54	-13.62
5460.00	E	Peak	42.47	8.88	51.35	74	-22.65
5460.00	Е	Average	31.51	8.88	40.39	54	-13.61

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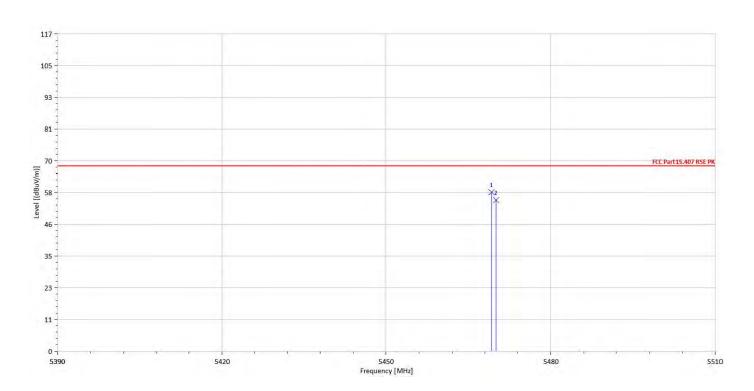


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: Temp. / Humi. : 5500 MHz 22.7deg\_C/57RH

Operation Band: BE CH Low RSE Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5469.20	S	Peak	49.83	8.80	58.63	68.3	-9.67
5470.00	Е	Peak	46.91	8.79	55.69	68.3	-12.61

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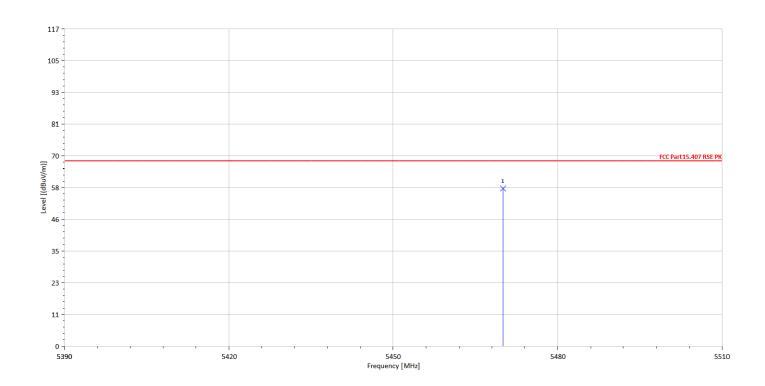


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Pony BE CH Low RSE Test Engineer: EUT Pol.: E2 Measurement Antenna Pol.: **Horizontal** 



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
5470.00	Е	Peak	49.40	8.79	58.19	68.3	-10.11

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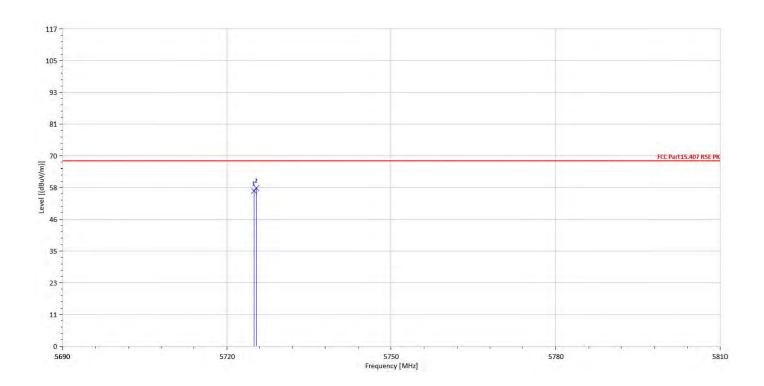


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Pony BE CH High Test Engineer: EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	47.97	9.30	57.27	68.3	-11.03
5725.40	S	Peak	49.06	9.30	58.36	68.3	-9.94

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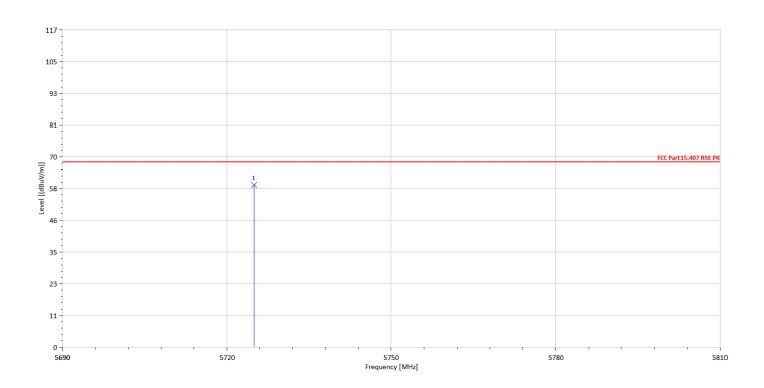
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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH High Test Engineer: Pony

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector 5 ct	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5725.00	Е	Peak	50.55	9.30	59.85	68.3	-8.45

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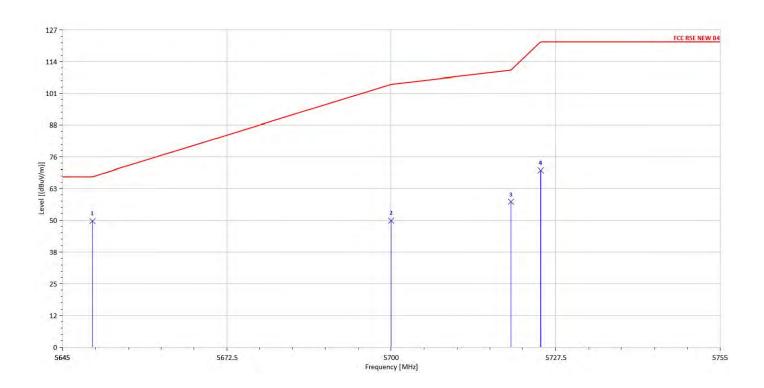


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
NALI-	F/H/E/S	PK/QP/AV	•	٩D	_	_	٩D
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	41.24	9.33	50.58	68.23	-17.65
5700.00	S	Peak	41.30	9.44	50.74	105.23	-54.49
5720.00	S	Peak	48.93	9.28	58.21	110.83	-52.62
5725.00	E	Peak	61.45	9.30	70.75	122.23	-51.48

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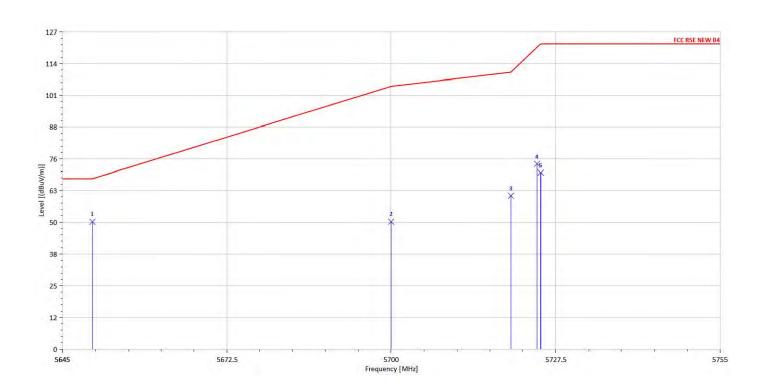


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	41.74	9.33	51.07	68.23	-17.16
5700.00	S	Peak	41.66	9.44	51.10	105.23	-54.13
5720.00	S	Peak	52.15	9.28	61.43	110.83	-49.40
5724.42	S	Peak	64.89	9.30	74.19	120.9074	-46.72
5725.00	E	Peak	61.37	9.30	70.67	122.23	-51.56

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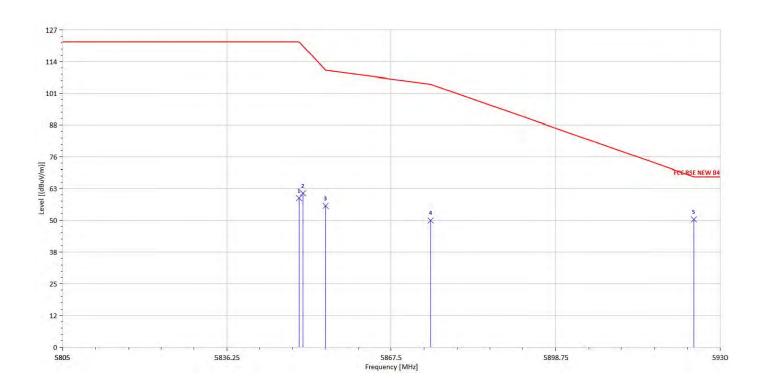


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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Pony BE CH High Test Engineer: EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Е	Peak	50.17	9.49	59.66	122.23	-62.57
5850.75	S	Peak	52.13	9.50	61.63	120.52	-58.89
5855.00	S	Peak	46.92	9.58	56.50	110.83	-54.33
5875.00	S	Peak	41.17	9.63	50.80	105.23	-54.43
5925.00	S	Peak	41.23	10.01	51.24	68.23	-16.99

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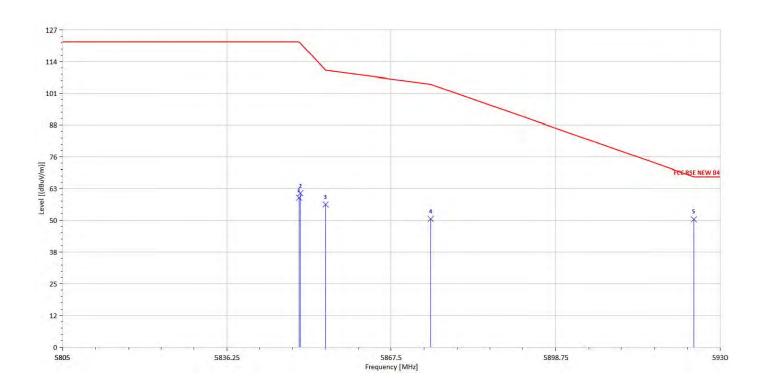
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Operation Mode: 802.11a Test Date: 2016/10/18

Fundamental Frequency: 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Pony BE CH High Test Engineer:

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	50.32	9.49	59.81	122.23	-62.42
5850.25	S	Peak	52.14	9.49	61.63	121.66	-60.03
5855.00	S	Peak	47.51	9.58	57.09	110.83	-53.74
5875.00	S	Peak	41.80	9.63	51.43	105.23	-53.80
5925.00	S	Peak	41.25	10.01	51.27	68.23	-16.96

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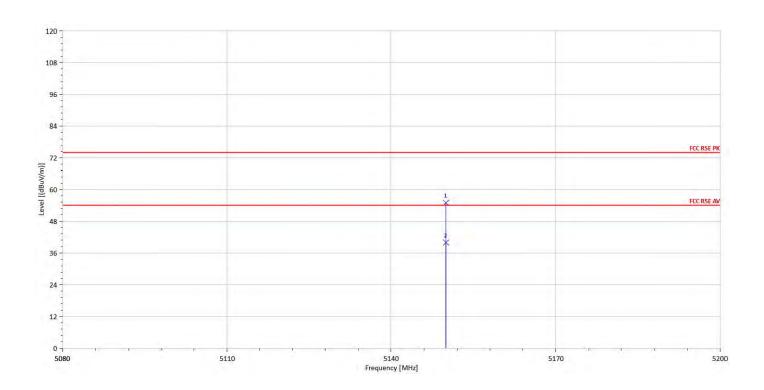
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### 802.11n20 HT mode

Operation Mode: Test Date: 2016/10/18 802.11n20

Temp. / Humi. : Fundamental Frequency: 5180 MHz 22.7deg\_C/57RH

Operation Band: BE CH LOW Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector 5 ct or 5 ct of 5 ct	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5150.00	Е	Peak	46.77	8.19	54.96	74	-19.04
5150.00	Е	Average	31.77	8.19	39.96	54	-14.04

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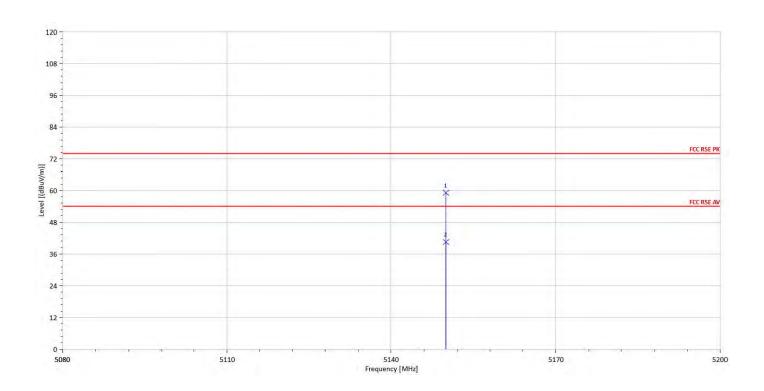


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH Operation Band: Pony BE CH LOW Test Engineer:

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
5150.00	E	Peak	50.98	8.19	59.17	74	-14.83
5150.00	E	Average	32.35	8.19	40.54	54	-13.46

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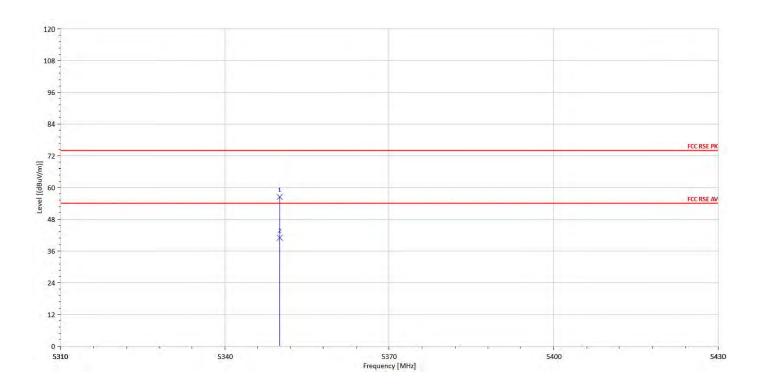


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5320 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Pony BE CH HIGH Test Engineer: EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	47.46	8.96	56.43	74	-17.57
5350.00	E	Average	32.05	8.96	41.01	54	-12.99

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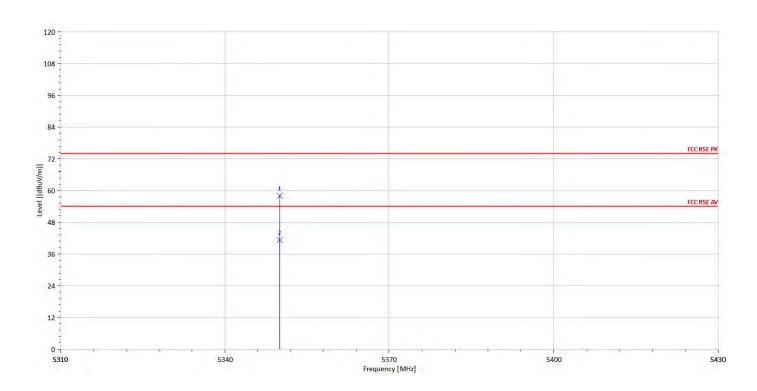


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5320 MHz Temp. / Humi.: 22.7deg\_C/57RH Operation Band: BE CH HIGH Test Engineer: Pony

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	49.09	8.96	58.05	74	-15.95
5350.00	E	Average	32.35	8.96	41.31	54	-12.69

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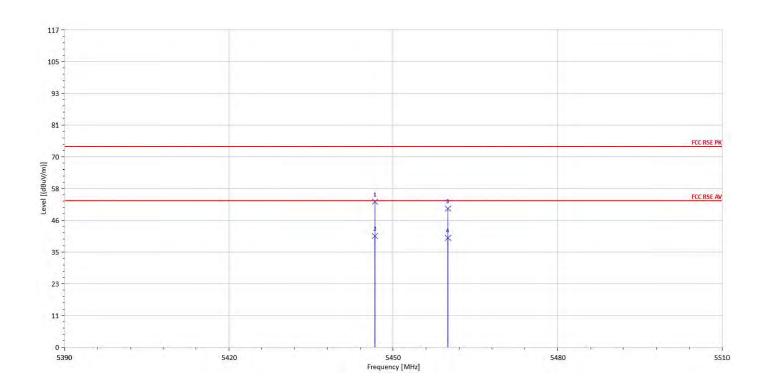


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Pony BE CH Low Test Engineer: EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5446.64	S	Peak	44.59	9.04	53.63	74	-20.37
5446.64	S	Average	31.96	9.04	41.00	54	-13.00
5460.00	E	Peak	42.17	8.88	51.05	74	-22.95
5460.00	E	Average	31.44	8.88	40.32	54	-13.68

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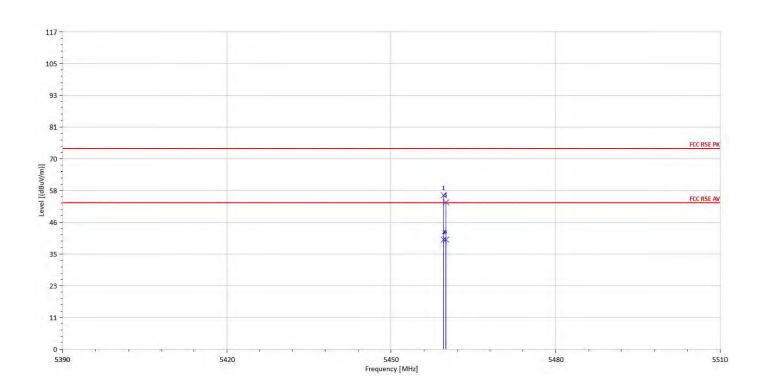
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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: Pony BE CH Low Test Engineer:

EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5459.60	S	Peak	47.91	8.89	56.79	74	-17.21
5459.60	S	Average	31.53	8.89	40.42	54	-13.58
5460.00	Е	Peak	45.23	8.88	54.12	74	-19.88
5460.00	Е	Average	31.54	8.88	40.42	54	-13.58

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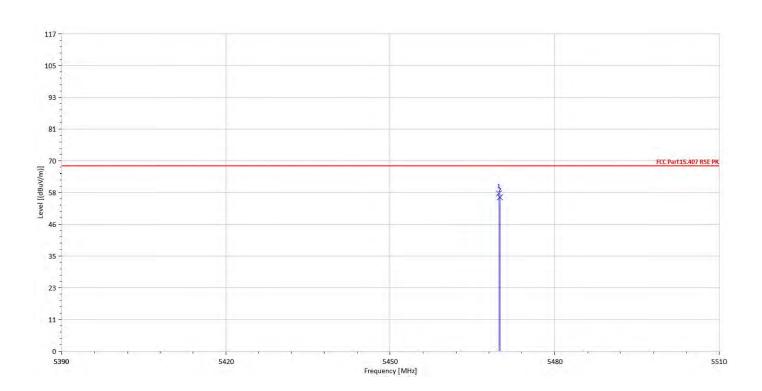


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Pony BE CH Low RSE Test Engineer: EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector 5 ct or 5 ct of 5 ct	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5469.80	S	Peak	49.41	8.79	58.20	68.3	-10.10
5470.00	E	Peak	47.98	8.79	56.77	68.3	-11.53

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f (886-2) 2298-0488

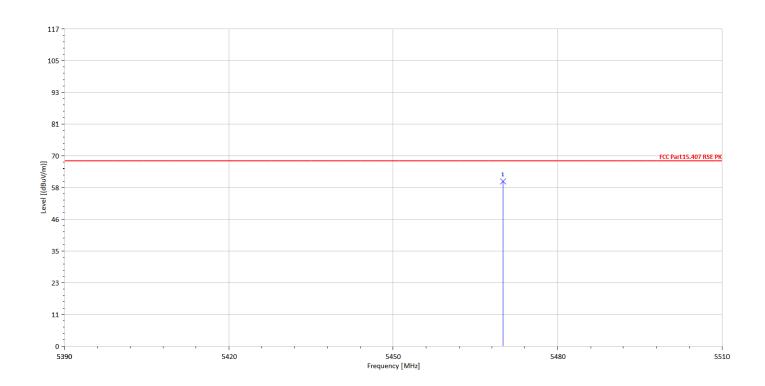


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH Low RSE Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol.: **Horizontal** 



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB	_
5470.00	E	Peak	52.01	8.79	60.80	68.3	-7.50	•

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f (886-2) 2298-0488

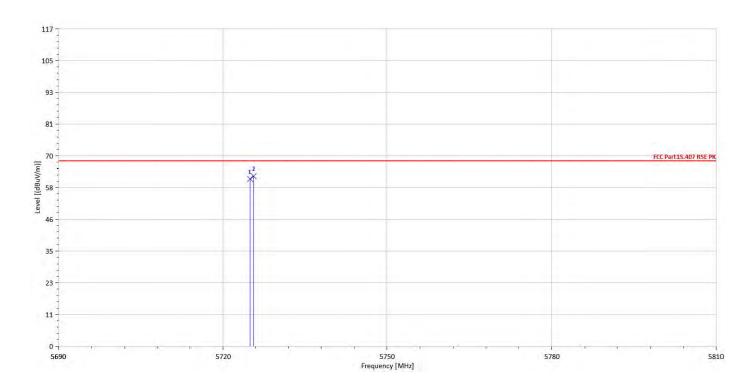


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Operation Mode: Test Date: 2016/10/18 802.11n20

Fundamental Frequency: Temp. / Humi. : 5700 MHz 22.7deg\_C/57RH

Test Engineer: Operation Band: BE CH High Pony EUT Pol.: Measurement Antenna Pol.: Vertical E2



	Freq.	Note	Detector 5 cm	Spectum	Factor	Actual	Limit	Margin	
			Mode	Reading Level		FS	@3m		
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
•	5725.00	E	Peak	52.42	9.30	61.72	68.3	-6.58	
	5725.64	S	Peak	53.44	9.30	62.75	68.3	-5.55	

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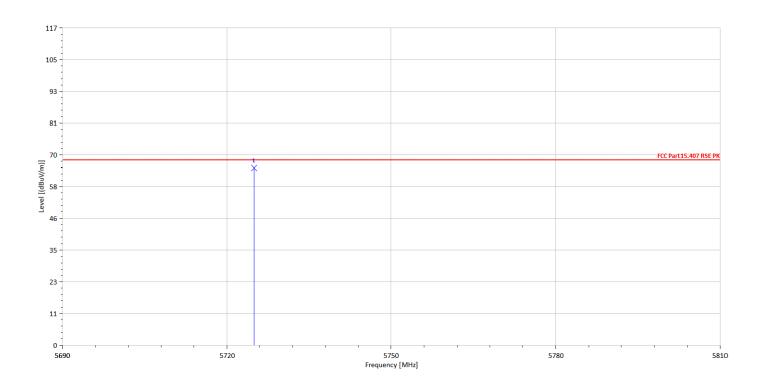
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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH High Test Engineer: Pony

EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector 5 ct or 5 ct	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	Е	Peak	56.03	9.30	65.33	68.3	-2.97

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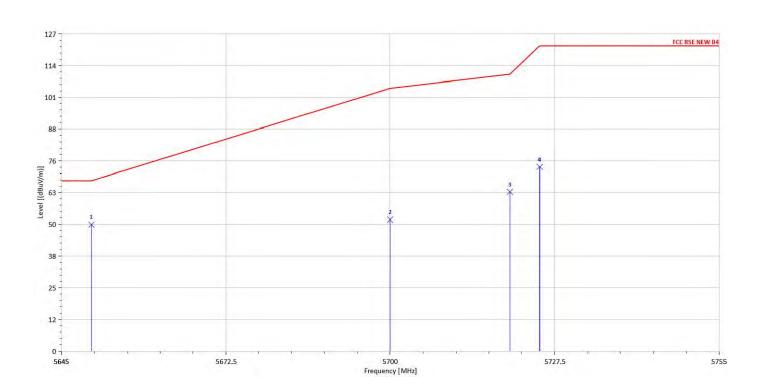


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	41.37	9.33	50.71	68.23	-17.52
5700.00	S	Peak	43.23	9.44	52.67	105.23	-52.56
5720.00	S	Peak	54.54	9.28	63.82	110.83	-47.01
5725.00	Е	Peak	64.45	9.30	73.75	122.23	-48.48

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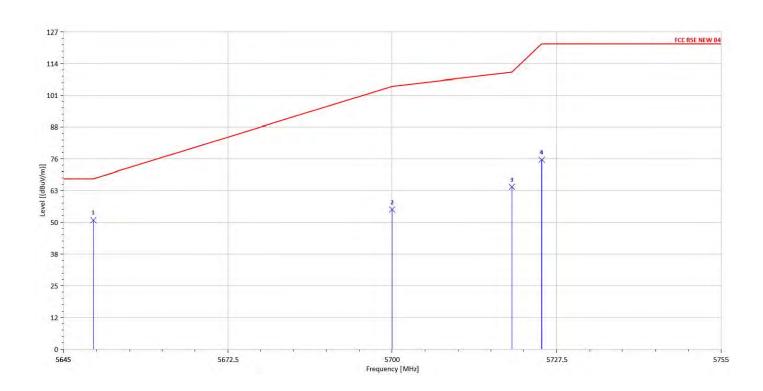


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	42.37	9.33	51.70	68.23	-16.53
5700.00	S	Peak	46.42	9.44	55.86	105.23	-49.37
5720.00	S	Peak	55.76	9.28	65.04	110.83	-45.79
5725.00	Е	Peak	66.49	9.30	75.79	122.23	-46.44

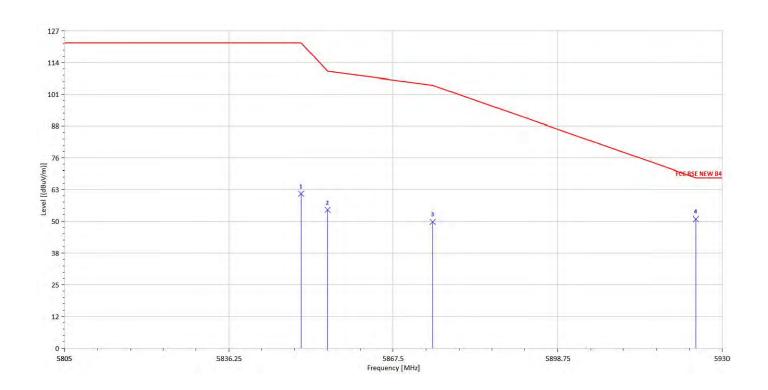
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Operation Mode: 802.11n20 Test Date: 2016/10/18 Fundamental Frequency: Temp. / Humi. : 5825 MHz 22.7deg\_C/57RH

Test Engineer: Operation Band: BE CH High Pony EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	52.33	9.49	61.82	122.23	-60.41
5855.00	S	Peak	45.74	9.58	55.32	110.83	-55.51
5875.00	S	Peak	41.01	9.63	50.64	105.23	-54.59
5925.00	S	Peak	41.71	10.01	51.73	68.23	-16.50

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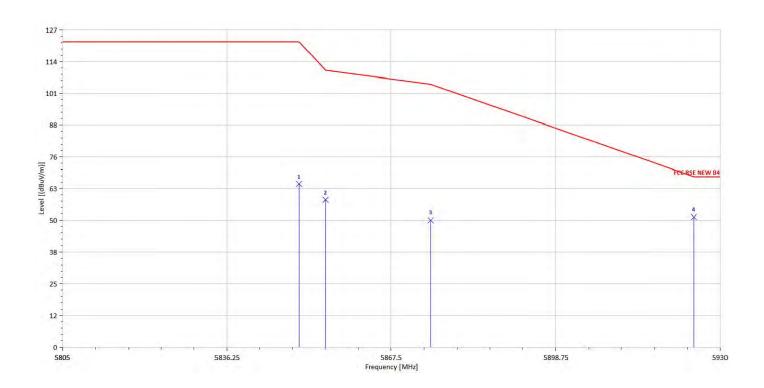


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Operation Mode: 802.11n20 Test Date: 2016/10/18

Fundamental Frequency: 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: Pony BE CH High Test Engineer: EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
5850.00	E	Peak	55.89	9.49	65.38	122.23	-56.85
5855.00	S	Peak	49.42	9.58	59.00	110.83	-51.83
5875.00	S	Peak	41.23	9.63	50.87	105.23	-54.36
5925.00	S	Peak	42.06	10.01	52.08	68.23	-16.15

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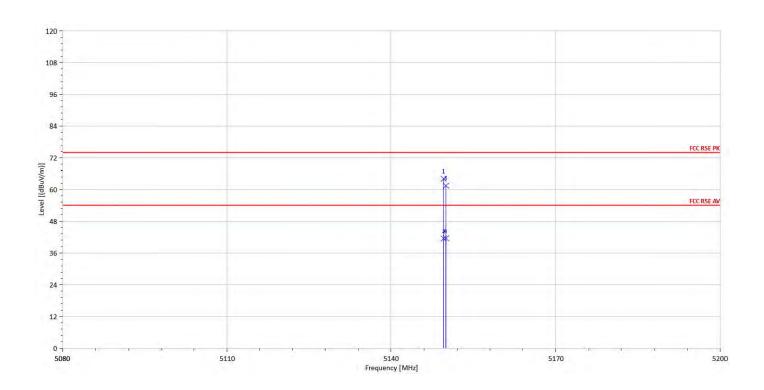


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#### 802.11n40 HT mode

Operation Mode: Test Date: 802.11n40 2016/10/19 Temp. / Humi. : Fundamental Frequency: 5190 MHz 22.7deg\_C/57RH

Operation Band: Test Engineer: BE CH LOW Ashton EUT Pol.: Measurement Antenna Pol.: E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5149.60	S	Peak	55.92	8.19	64.11	74	-9.89
5149.60	S	Average	33.30	8.19	41.49	54	-12.51
5150.00	E	Peak	53.28	8.19	61.47	74	-12.53
5150.00	Ε	Average	33.37	8.19	41.56	54	-12.44

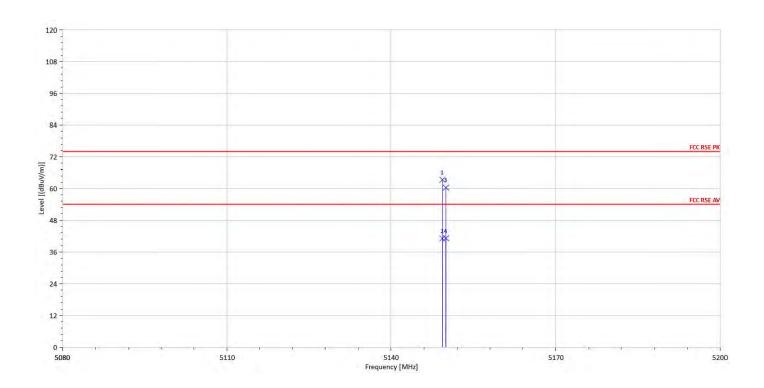
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Operation Mode: 802.11n40 Test Date: 2016/10/19 Fundamental Frequency: 5190 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH LOW Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
5149.36	S	Peak	55.19	8.19	63.38	74	-10.62
5149.36	S	Average	32.91	8.19	41.10	54	-12.90
5150.00	E	Peak	52.20	8.19	60.39	74	-13.61
5150.00	Е	Average	33.02	8.19	41.21	54	-12.79

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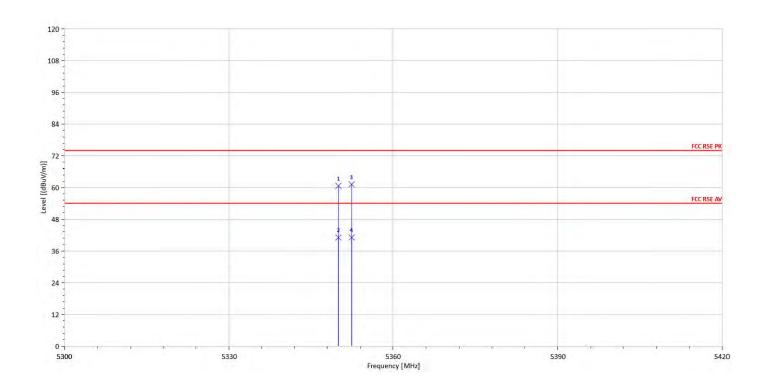


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5310 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Е	Peak	51.71	8.96	60.67	74	-13.33
5350.00	Ε	Average	32.15	8.96	41.11	54	-12.89
5352.44	S	Peak	52.27	8.99	61.26	74	-12.74
5352.44	S	Average	32.14	8.99	41.13	54	-12.87

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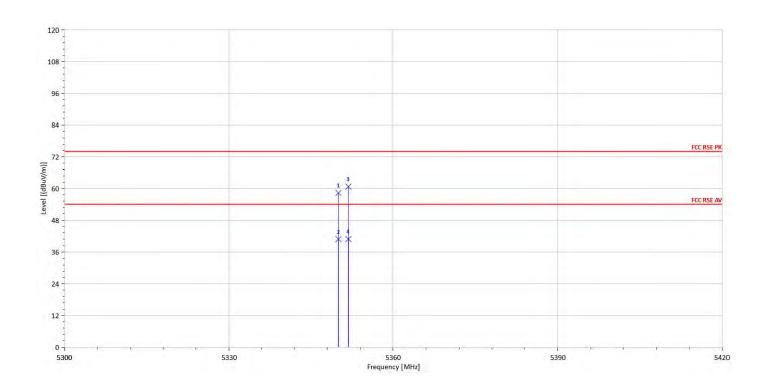


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5310 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Е	Peak	49.39	8.96	58.35	74	-15.65
5350.00	E	Average	31.92	8.96	40.88	54	-13.12
5351.84	S	Peak	51.75	8.99	60.75	74	-13.25
5351.84	S	Average	31.93	8.99	40.92	54	-13.08

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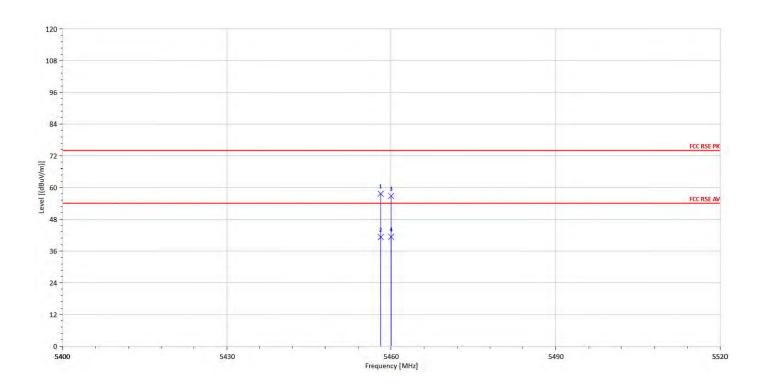


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5510 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5458.08	S	Peak	48.73	8.90	57.64	74	-16.36
5458.08	S	Average	32.40	8.90	41.30	54	-12.70
5460.00	E	Peak	47.93	8.88	56.81	74	-17.19
5460.00	E	Average	32.49	8.88	41.37	54	-12.63

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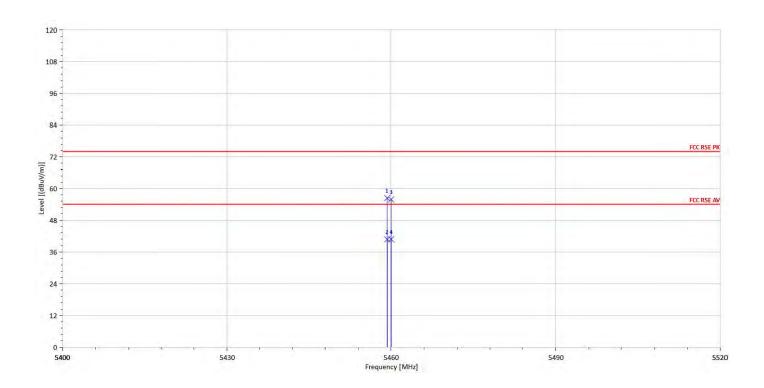


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5510 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5459.28	S	Peak	47.51	8.89	56.40	74	-17.60
5459.28	S	Average	31.92	8.89	40.81	54	-13.19
5460.00	E	Peak	46.98	8.88	55.86	74	-18.14
5460.00	Е	Average	31.96	8.88	40.84	54	-13.16

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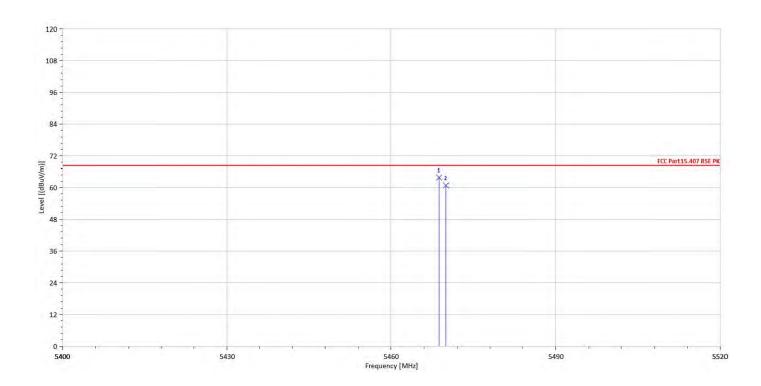


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5510 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5468.76	S	Peak	55.04	8.80	63.84	68.3	-4.46
5470.00	E	Peak	52.06	8.79	60.85	68.3	-7.45

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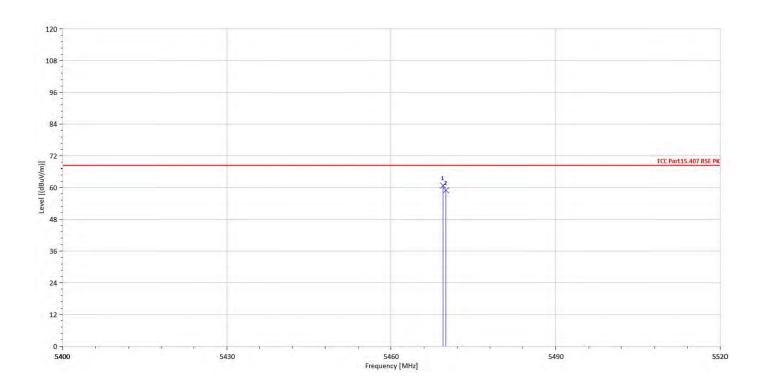


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5510 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: **Horizontal** 



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5469.48	S	Peak	51.97	8.79	60.76	68.3	-7.54
5470.00	E	Peak	50.19	8.79	58.98	68.3	-9.32

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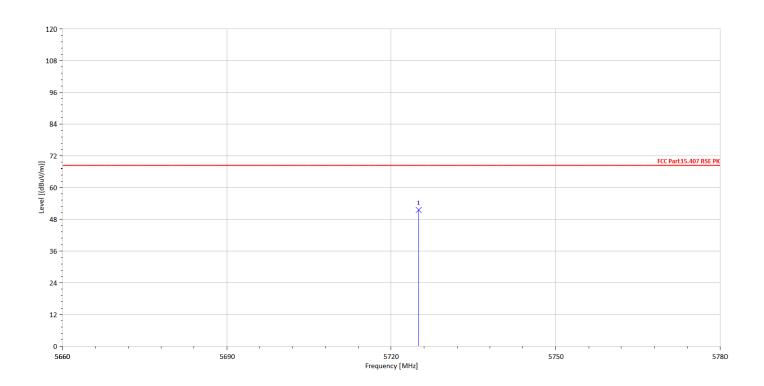


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5670 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector 5 ct or 5 ct	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	42.16	9.30	51.46	68.3	-16.84

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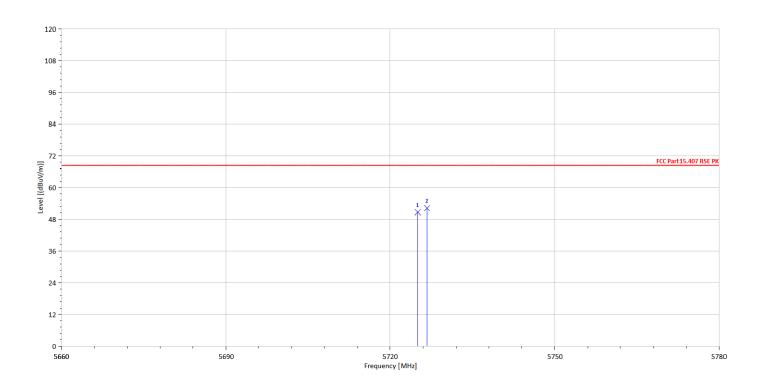


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5670 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector 5 ct or 5 ct of 5 ct	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	41.32	9.30	50.62	68.3	-17.68
5726.72	S	Peak	42.83	9.30	52.14	68.3	-16.16

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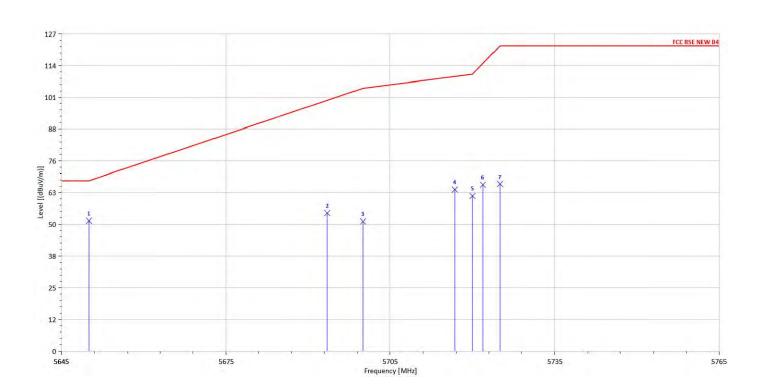


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5755 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	42.87	9.33	52.21	68.23	-16.02
5693.48	S	Peak	45.62	9.58	55.21	100.4052	-45.20
5700.00	S	Peak	42.52	9.44	51.96	105.23	-53.27
5716.76	S	Peak	55.46	9.27	64.73	109.9227	-45.20
5720.00	S	Peak	52.87	9.28	62.15	110.83	-48.68
5721.92	S	Peak	57.37	9.29	66.66	115.2074	-48.54
5725.00	Е	Peak	57.69	9.30	66.99	122.23	-55.24

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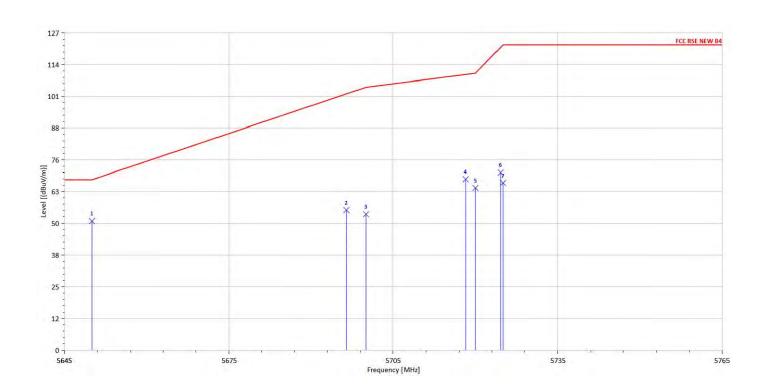


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5755 MHz Temp. / Humi.: 22.7deg\_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5650.00	S	Peak	42.38	9.33	51.72	68.23	-16.51
5696.48	S	Peak	46.51	9.52	56.03	102.6252	-46.60
5700.00	S	Peak	44.94	9.44	54.38	105.23	-50.85
5718.20	S	Peak	59.20	9.27	68.48	110.3261	-41.85
5720.00	S	Peak	55.68	9.28	64.96	110.83	-45.87
5724.56	S	Peak	61.80	9.30	71.10	121.2269	-50.13
5725.00	Е	Peak	57.69	9.30	66.99	122.23	-55.24

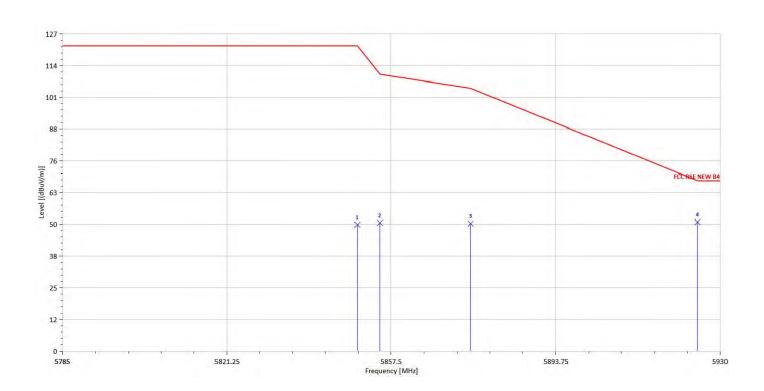
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Operation Mode: Test Date: 2016/10/19 802.11n40 Fundamental Frequency: Temp. / Humi. : 5795 MHz 22.7deg\_C/57RH

Test Engineer: Operation Band: BE CH High Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2



Freq.	Note	Detector 5 ct or 5 ct of 5 ct	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	41.17	9.49	50.66	122.23	-71.57
5855.00	S	Peak	41.79	9.58	51.37	110.83	-59.46
5875.00	S	Peak	41.44	9.63	51.07	105.23	-54.16
5925.00	S	Peak	41.68	10.01	51.69	68.23	-16.54

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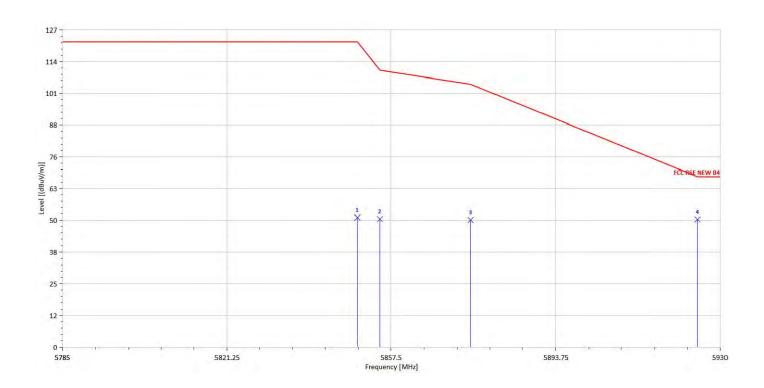


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Operation Mode: 802.11n40 Test Date: 2016/10/19

Fundamental Frequency: 5795 MHz Temp. / Humi. : 22.7deg\_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
5850.00	E	Peak	42.41	9.49	51.90	122.23	-70.33
5855.00	S	Peak	41.75	9.58	51.33	110.83	-59.50
5875.00	S	Peak	41.31	9.63	50.95	105.23	-54.28
5925.00	S	Peak	41.15	10.01	51.17	68.23	-17.06

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## TRANSMISSION IN THE ABSENCE OF DATA

# **Standard Applicable**

According to §15.407(c)

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 signaling 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.

#### 12.2 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 ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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# 13. FREQUENCY STABILITY

# 13.1 Standard Applicable

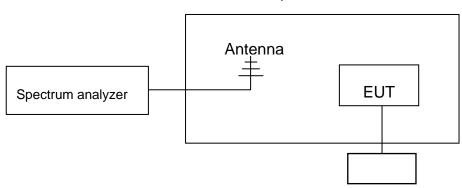
Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

#### 13.2 Measurement Procedure

- 1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
- 2. Set EUT as normal operation.
- 3. Turn the EUT on and couple its output to spectrum.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
- 6. Repeat step with the temperature chamber set to the lowest temperature.

### 13.3 Test SET-UP

#### Temperature Chamber



Variable AC Power Supply

# 13.4 Measurement Equipment Used:

SGS Conducted Room							
Name of Equip- ment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017		
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016		
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016		
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017		

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#### 13.5 **Measurement Result**

Operation Mode	802.11 a	Test Date	2016.10.21
Temperature	:25	Test By	Henry
Humidity	:66 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		36	5180	5,179.96093	0.00000754
		44	5220	5,219.96114	0.00000744
		48	5240	5,239.96069	0.00000750
		52	5260	5,259.95980	0.00000764
		60	5300	5,299.95947	0.00000765
	4.37v	64	5320	5,319.95953	0.00000761
		100	5500	5,499.95899	0.00000746
		116	5580	5,579.95899	0.00000735
		140	5700	5,699.95862	0.00000726
		149	5745	5,744.95814	0.00000729
		157	5785	5,784.95720	0.00000740
		165	5825	5,824.95749	0.00000730
-10		36	5180	5,179.96049	0.00000763
		44	5220	5,219.96050	0.00000754 0.00000754 0.00000750 0.00000764 0.00000765 0.00000761 0.00000746 0.00000726 0.00000729 0.00000740 0.00000730 0.00000763 0.00000763 0.00000763 0.00000763 0.00000763 0.00000763 0.00000770 0.00000770 0.00000770
		48	5240	5,239.95996	0.00000764
		52	5260	5,259.95987	0.00000763
		60	5300	5,299.95929	0.00000768
	3.42v	64	5320	5,319.95901	0.00000770
		100	5500	5,499.95895	0.00000746
		116	5580	5,579.95890	0.00000737
		140	5700	5,699.95821	0.00000733
		149	5745	5,744.95766	0.00000737
		157	5785	5,784.95711	0.00000741
		165	5825	5,824.95695	0.00000739



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	00	E4.00	F 470 00400	0.00000747
				0.00000747
			,	0.00000741
				0.00000748
			·	0.00000757
	60	5300	5,299.95996	0.00000755
3.8v	64	5320	5,319.95975	0.00000757
	100	5500	5,499.95913	0.00000743
	116	5580	5,579.95903	0.00000734
	140	5700	5,699.95901	0.00000719
	149	5745	5,744.95859	0.00000721
	157	5785	5,784.95783	0.00000729
	165	5825	5,824.95767	0.00000727
	00	E4.00	F 470 00070	0.00000750
				0.00000758
			•	0.00000747
			<del></del>	0.00000753
4.37v			·	0.00000761
				0.00000770
			<del>- '</del>	0.00000761
				0.00000754
	116	5580		0.00000750
	140	5700	5,699.95864	0.00000726
	149	5745	5,744.95858	0.00000721
	157	5785	5,784.95695	0.00000744
	165	5825	5,824.95743	0.00000731
	36	5180	5,179.96079	0.00000757
3.42v	44	5220	5,219.96133	0.00000741
	48	5240	5,239.96038	0.00000756
	52	5260	5,259.95947	0.00000771
	60	5300	5,299.95913	0.00000771
	64	5320	5,319.95958	0.00000760
	100	5500		0.00000756
	116	5580	5,579.95808	0.00000751
	140	5700		0.00000727
				0.00000731
	157			0.00000741
				0.00000730
		3.8v 64 100 116 140 149 157 165 36 44 48 52 60 3.42v 64 100 116 140 149 116 140 149 157	44 5220 48 5240 52 5260 60 5300 3.8v 64 5320 100 5500 116 5580 140 5700 149 5745 157 5785 165 5825 36 5180 44 5220 48 5240 52 5260 60 5300 64 5320 4.37v 100 5500 116 5580 140 5700 149 5745 157 5785 165 5825 36 5180 44 5220 48 5240 52 5260 60 5300 64 5320 140 5700 149 5745 157 5785 165 5825 36 5180 44 5220 48 5240 52 5260 60 5300 116 5580 140 5700 149 5745 157 5785	44 5220 5,219.96134 48 5240 5,239.96079 52 5260 5,259.96017 60 5300 5,299.95996 100 5500 5,499.95913 116 5580 5,579.95903 140 5700 5,699.95901 149 5745 5,744.95859 157 5785 5,824.95767  36 5180 5,179.96073 44 5220 5,219.96102 48 5240 5,239.96052 52 5260 5,259.95998 60 5300 5,299.95919 64 5320 5,319.95949 4.37v 100 5500 5,499.95852 116 5580 5,579.95814 140 5700 5,699.95864 149 5745 5,744.95858 157 5785 5,784.95783 36 5180 5,179.96073 374 520 5,219.96102 48 5240 5,239.96052 52 5260 5,259.95998 60 5300 5,299.95919 64 5320 5,319.95949 4.37v 100 5500 5,499.95852 116 5580 5,579.95814 140 5700 5,699.95864 149 5745 5,744.95858 157 5785 5,784.95695 165 5825 5,824.957743 36 5180 5,179.96079 44 5220 5,219.96133 48 5240 5,239.96038 52 5260 5,259.95947 60 5300 5,299.95913 3.42v 64 5320 5,319.95958 100 5500 5,499.95842 116 5580 5,579.95808 140 5700 5,699.95856 149 5745 5,744.95799 157 5785 5,784.95791

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Operation Mode	802.11 n_HT40	Test Date	2016.10.21
Temperature	:25	Test By	Henry
Humidity	:66 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		38	5190	5,189.96352	0.00000703
		46	5230	5,229.96254	0.00000716
		54	5270	5,269.96035	0.00000752
		62	5310	5,309.95950	0.00000763
	4.37v	102	5510	5,509.95917	0.00000741
		110	5550	5,549.95977	0.00000725
		134	5670	5,669.95911	0.00000721
		151	5755	5,754.95835	0.00000724
-10		159	5795	5,794.95718	0.00000739
		38	5190	5,189.96332	0.00000707
		46	5230	5,229.96285	0.00000710
		54	5270	5,269.96078	0.00000744
	Ī	62	5310	5,309.95954	0.00000762
	3.42v	102	5510	5,509.95872	0.00000749
		110	5550	5,549.95920	0.00000735
		134	5670	5,669.95912	0.00000721
		151	5755	5,754.95774	0.00000734
		159	5795	5,794.95760	0.00000732

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					-
		38	5190	5,189.96384	0.00000697
		46	5230	5,229.96304	0.00000707
		54	5270	5,269.96129	0.00000735
		62	5310	5,309.96002	0.00000753
25	3.8v	102	5510	5,509.95964	0.00000732
		110	5550	5,549.95987	0.00000723
		134	5670	5,669.95918	0.00000720
		151	5755	5,754.95850	0.00000721
		159	5795	5,794.95797	0.00000725
		38	5190	5,189.96378	0.00000698
		46	5230	5,229.96255	0.00000716
	4.37v	54	5270	5,269.96083	0.00000743
		62	5310	5,309.95972	0.00000759
		102	5510	5,509.95919	0.00000741
		110	5550	5,549.95926	0.00000734
		134	5670	5,669.95831	0.00000735
		151	5755	5,754.95801	0.00000730
		159	5795	5,794.95790	0.00000726
55		38	5190	5,189.96311	0.00000711
		46	5230	5,229.96269	0.00000713
	3.42v	54	5270	5,269.96053	0.00000749
		62	5310	5,309.96001	0.00000753
		102	5510	5,509.95911	0.00000742
		110	5550	5,549.95962	0.00000728
		134	5670	5,669.95845	0.00000733
		151	5755	5,754.95835	0.00000724
		159	5795	5,794.95784	0.00000728

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# 14. ANTENNA REQUIREMENT

# 14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 14.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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