

Page: 1 of 137

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

Product Name: Panasonic FG-185-SG32-MH

Brand Name: Panasonic

Model No.: FG-185-SG32-MH

Model Difference: N/A

FCC ID: ACJ-FG-185-SG32MH

IC: 216B-FG185SG32MH

Report No.: E2/2017/60108

Issue Date: Aug. 02, 2017

FCC Rule Part: §15.407

IC Rule Part RSS-247 issue 2 Feb. 2017

Prepared for: Panasonic Automotive Systems Company of America

776 Highway 74 South, Peachtree City, GA 30269,

USA

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No.2, Keji 1st Rd., Guishan District, Taoyuan City,

Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Panasonic Automotive Systems Company of America

776 Highway 74 South, Peachtree City, GA 30269, USA

Product Name: Panasonic FG-185-SG32-MH

Brand Name: Panasonic

Model No.: FG-185-SG32-MH

Model Difference: N/A

FCC ID: ACJ-FG-185-SG32MH IC: 216B-FG185SG32MH

File Number: E2/2017/60108

Date of test: Jun. 29, 2017 ~ Jul. 27, 2017

Date of EUT Received: Jun. 29, 2017

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.

Test By:	Aken Huang	Date:	Aug. 02, 2017
	Aken Huang / Engineer		
Prepared By:	karen Huang	Date:	Aug. 02, 2017
	Karen Huang / Clerk		
Approved By:	Tim Chang	Date:	Aug. 02, 2017
	Jim Chang / Asst. Manager		

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/60108	Rev.00	Initial creation of document	Aug. 02, 2017

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GENERAL INFORMATION

1.1 Product Description

General:

Panasonic FG-185-SG32-MH
Panasonic
FG-185-SG32-MH
N/A
N/A/ N/A
N/A / N/A
N/A
N/A
12V DC from Power Supply

Antenna Designation	PCB Antenna, 5GHz Gain: 2dBi (5150MHz-5250MHz) 5GHz Gain: 2dBi (5250MHz-5350MHz) 5GHz Gain: 2dBi (5470MHz-5725MHz) 5GHz Gain: 2dBi (5725MHz-5850MHz)	
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	

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FCC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology	
	5150~5250	4	10.68 dBm		
 11a	5250~5350 4 10.67 dB		10.67 dBm	OFDM	
IIa	5470~5725	12	10.71 dBm	OFDM	
	5725-5850	5	10.67 dBm		
	HT20 5150~5250	4	10.72 dBm		
11n	HT20 5250~5350	4	10.73 dBm	OFDM	
1111	HT20 5470~5725	0 5470~5725 12 10.71 dBm		OFDIVI	
	HT20 5725-5850	5	10.73 dBm		

IC WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology
	5150~5250	4	12.68 dBm (EIRP)	
	5250~5350	4	10.67 dBm	
11a	5500~5580	5	10.56 dBm	OFDM
	5660~5700	3	10.71 dBm	
	5745-5825	5	10.67 dBm	
	HT20 5150~5250	4	12.72 dBm (EIRP)	
	HT20 5250~5350	4	10.73 dBm	
11n	HT20 5500~5580	5	10.71 dBm	OFDM
	HT20 5660~5700	3	10.45 dBm	
	HT20 5745-5825	5	10.73 dBm	

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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

RSS-247 issue 2 Feb. 2017

RSS-Gen issue4 Nov. 2014

ANSI C63.10:2013

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

1.3 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

Canada Registration Number: 4620A-5

1.4 Special Accessories

There are no special accessories used while test was conducted.

Equipment Modifications

There was no modification incorporated into the EUT.

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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 hand-held 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.

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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.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 1.6dB, and 10dB at-

= RF cable loss (dB)+ attenuation factor(dB)=11.6(dB)

2.5 **Configuration of Tested System**

Fig. 2-1 Radiated Emission & Conducted Emission (Antenna Port) Configuration

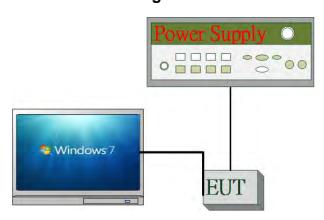


Table 2-1 Equipment Used in Tested System

Item	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	L430	PK-OCGFF	Shielded	Un-Shielded
3	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-Shielded

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SUMMARY OF TEST RESULT 3

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	N/A
§15.403(i) §15.407(e)	RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	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:

4 channels are provided for 802.11a, 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n HT20

Ī	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
	52	5260 MHz	60	5300 MHz
Ī	56	5280 MHz	64	5320 MHz

Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for FCC 802.11a, 802.11n HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY			
100	5500 MHz	124	5620 MHz			
104	5520 MHz	128	5640 MHz			
108	5540 MHz	132	5660 MHz			
112	5560 MHz	136	5680 MHz			
116	5580 MHz	140	5700 MHz			
120	5600 MHz					

Note: Channels from 5600MHz ~ 5650MHz are disabled when this product is marketed withing Canada.

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

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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.
- Investigation has been done on all the possible configurations for searching the worst case.

ADIATED EMISSION TEST:							
RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
802.11a	5180~5240	36 to 48	44	OFDM	6		
802.11a	5260~5320	52 to 64	60	OFDM	6		
802.11a	5500~5700	100 to 140	116	OFDM	6		
802.11a	5745~5825	149 to 165	157	OFDM	6		
	RADIATED	EMISSION 7	EST (ABOVE	1 GHz)			
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
802.11a	5180~5240	36 to 48	26 44 49	OFDM	6		
802.11n_HT20	3100~3240	30 to 40	36,44,48	OFDM	MCS0		
802.11a	5260~5320	52 to 64	F2 60 64	OFDM	6		
802.11n_HT20	3200~3320	52 10 64	52,60,64	OFDM	MCS0		
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6		
802.11n_HT20	3300~3700	100 to 140	100,110,140	OFDM	MCS0		
802.11a	5745~5825	140 to 405	140 457 405	OFDM	6		
802.11n_HT20	3140~0020	149 to 165	149,157,165	OFDM	MCS0		

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 H position was reported.

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ANTENNA PORT CONDUCTED MEASUREMENT:

TENNATON TONDOTED MEAGONEMENT.							
CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
802.11a	5180~5240	36 to 48	26 44 49	OFDM	6		
802.11n_HT20	5100~5240	30 10 40	36,44,48	OFDM	MCS0		
802.11a	5260~5320	52 to 64	F2 60 64	OFDM	6		
802.11n_HT20	5260~5320	52 10 64	52,60,64	OFDM	MCS0		
802.11a	5500 5700	100 to 140	100 116 140	OFDM	6		
802.11n_HT20	5500~5700	100 to 140	100,116,140	OFDM	MCS0		
802.11a	5745~5825	05 440 to 405	440 457 405	OFDM	6		
802.11n_HT20	0140~5625	149 to 165	149,157,165	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: +/- 2.87 dB
	3KI IZ - 30IVII IZ. +/- 2.07 UD
	30MHz - 180MHz: +/- 3.37dB
Measurement uncertainty	180MHz -417MHz: +/- 3.19dB
(Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

	9kHz – 30MHz: +/- 2.87 dB
	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			

6.2. Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2016	12/11/2017		
Coaxial Cables	N/A	N30N30-1042-150 cm	N/A	08/30/2016	08/29/2017		
LISN	Schwarzbeck	NSLK 8127	8127-648	06/18/2017	06/17/2018		
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.		

NOTE: N.C.R refers to Not Calibrated Required.

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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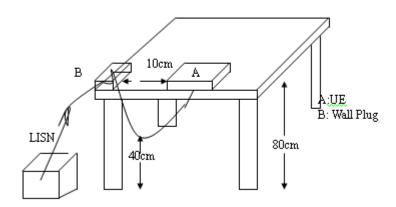
^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50



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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

N/A, EUT is powered by car battery.

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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:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle
802.11a	86.93	0.61
802.11n_20	86.20	0.64

Duty Cycle Factor: $10 * \log(1/0.8693) = 0.61$ Duty Cycle Factor: $10 * \log(1/0.862) = 0.64$

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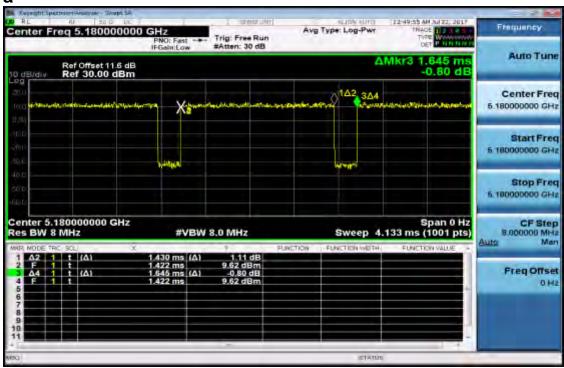
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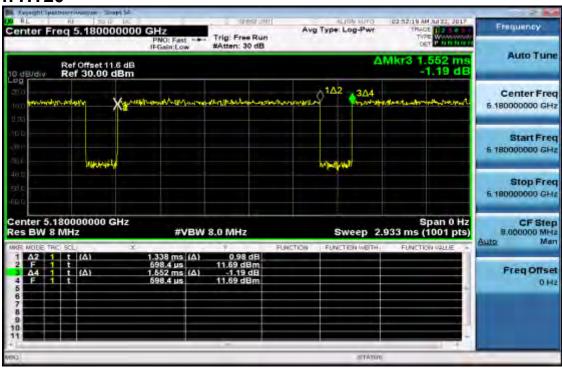


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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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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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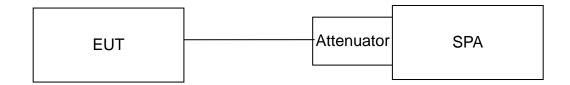


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Measurement Equipment Used 8.3

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018			
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017			
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/12/2016	12/11/2017			
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017			
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2016	12/11/2017			

8.4 Test Set-up



8.5 Measurement Result 26dB Bandwidth

802.11a_Main

802.11 n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	25.45	14.057	5180	26.29	14.198
5220	23.22	13.659	5220	25.84	14.123
5240	26.93	14.302	5240	26.87	14.293
5260	28.00	14.472	5260	26.32	14.203
5300	26.17	14.178	5300	29.21	14.655
5320	26.42	14.219	5320	25.84	14.123
5500	27.20	14.346	5500	29.58	14.710
5580	26.76	14.275	5580	29.24	14.660
5700	29.60	14.713	5700	26.09	14.165

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802.11a_Main

802.11 n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.70	11.672	5745	14.47	11.605
5785	15.05	11.775	5785	15.11	11.791
5825	15.06	11.777	5825	15.03	11.771

99% Bandwidth

802.11a Main

802.11n HT20 Main

OOZIII IU_IIIUI			002.11111_1112		10 Log (B) (dB)			
Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)			
5180	16.502	12.175	5180	17.445	12.417			
5220	16.358	12.137	5220	17.394	12.404			
5240	16.393	12.147	5240	17.434	12.414			
5260	16.381	12.143	5260	17.465	12.422			
5300	16.353	12.136	5300	17.513	12.434			
5320	16.386	12.145	5320	17.529	12.438			
5500	16.517	12.179	5500	17.646	12.466			
5580	16.359	12.138	5580	17.643	12.466			
5700	16.492	12.173	5700	17.499	12.430			

802.11a Main

802.11n HT20 Main

	=-=-				
Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.24	11.830	5745	14.74	11.686
5785	14.77	11.693	5785	17.12	12.335
5825	15.23	11.826	5825	10.83	10.348

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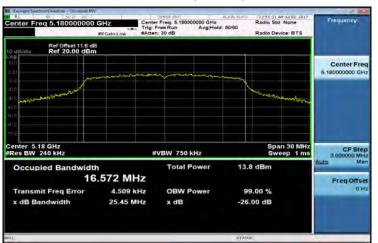
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802.11a, 5150~5250 MHz (Main)

26dB Band Width Test Data CH-Low (5180MHz)



802.11a, 5250~5350 MHz (Main)

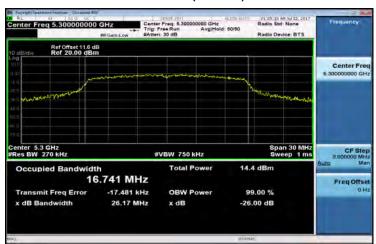
26dB Band Width Test Data CH-Low (5260MHz)



26dB Band Width Test Data CH-Mid (5220MHz)



26dB Band Width Test Data CH-Mid (5300MHz)



26dB Band Width Test Data CH-High (5240MHz)



26dB Band Width Test Data CH-High (5320MHz)



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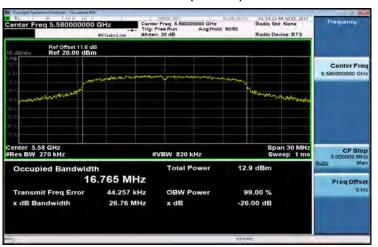


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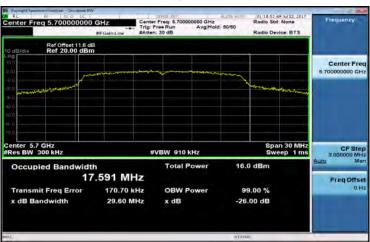
802.11a, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500MHz)



26dB Band Width Test Data CH-Mid (5580MHz)



26dB Band Width Test Data CH-High (5700MHz)



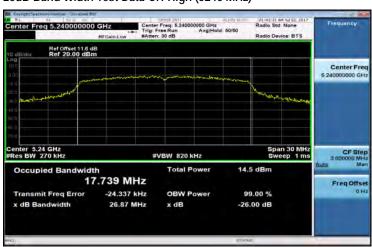
802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



26dB Band Width Test Data CH-Mid (5220 MHz)



26dB Band Width Test Data CH-High (5240 MHz)



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802.11n HT20, 5250~5350 MHz (Main)

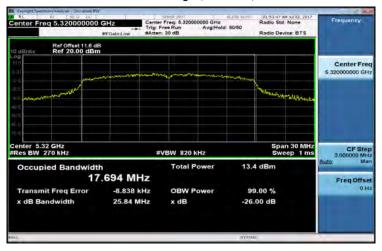
26dB Band Width Test Data CH-Low (5260 MHz)



26dB Band Width Test Data CH-Mid (5300 MHz)



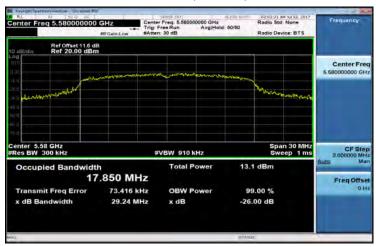
26dB Band Width Test Data CH-High (5320 MHz)



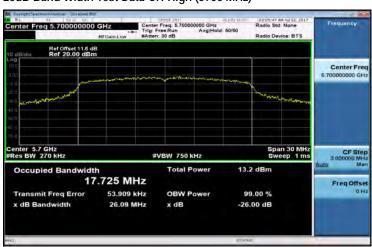
802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



26dB Band Width Test Data CH-Mid (5580 MHz)



26dB Band Width Test Data CH-High (5700 MHz)



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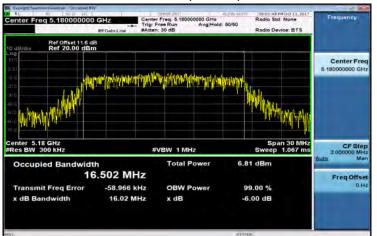
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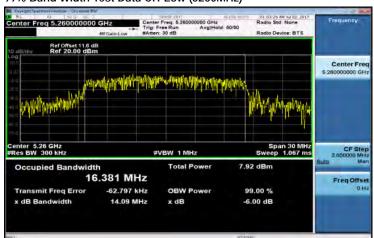


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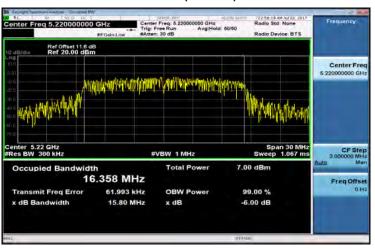
802.11a, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180MHz)



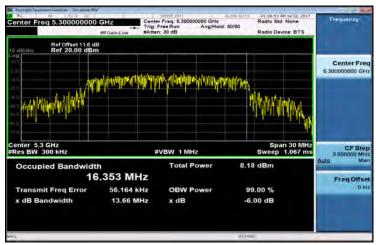
802.11a, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260MHz)



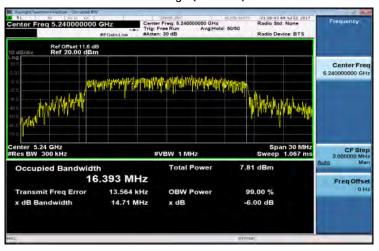
99% Band Width Test Data CH-Mid (5220MHz)



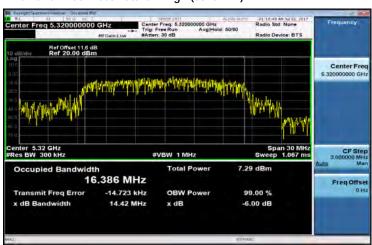
99% Band Width Test Data CH-Mid (5300MHz)



99% Band Width Test Data CH-High (5240MHz)



99% Band Width Test Data CH-High (5320MHz)



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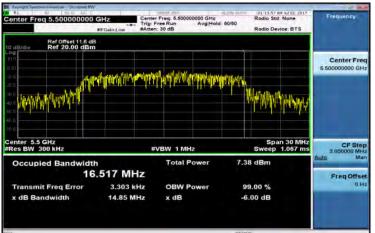
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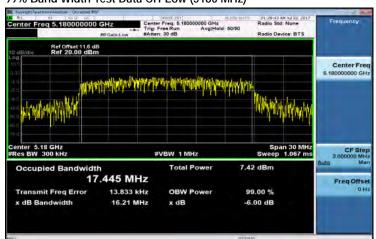


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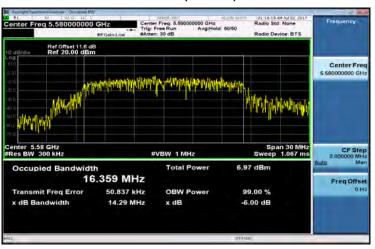
802.11a, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500MHz)



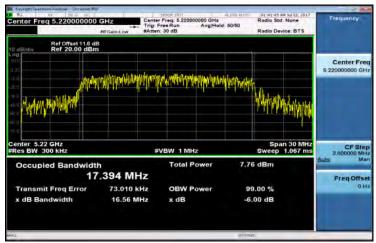
802.11n HT20, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180 MHz)



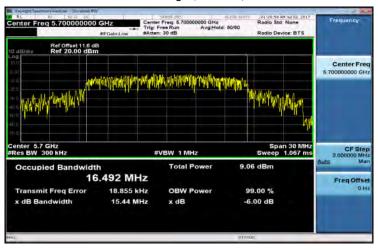
99% Band Width Test Data CH-Mid (5580MHz)



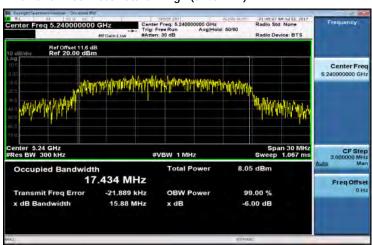
99% Band Width Test Data CH-Mid (5220 MHz)



99% Band Width Test Data CH-High (5700MHz)



99% Band Width Test Data CH-High (5240 MHz)



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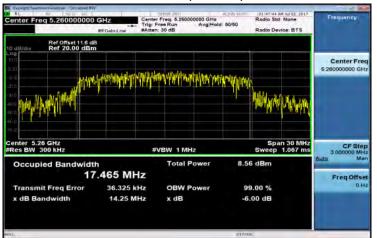
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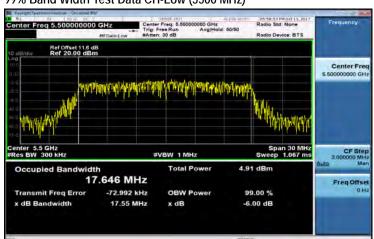


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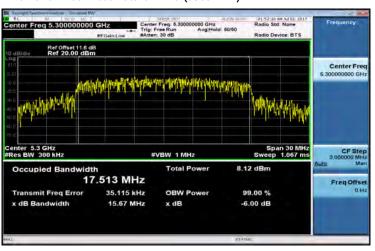
802.11n HT20, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260 MHz)



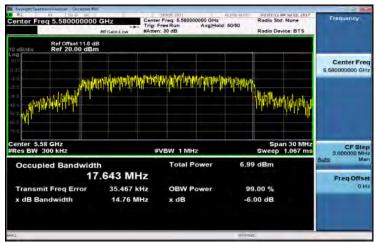
802.11n HT20, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500 MHz)



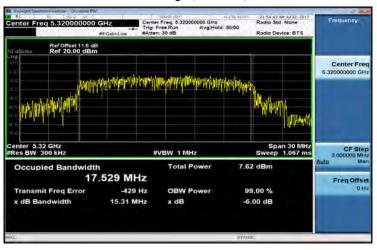
99% Band Width Test Data CH-Mid (5300 MHz)



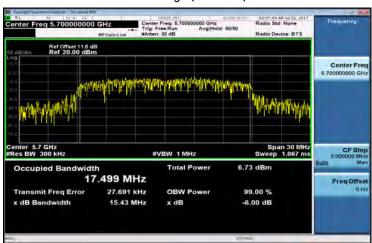
99% Band Width Test Data CH-Mid (5580 MHz)



99% Band Width Test Data CH-High (5320 MHz)



99% Band Width Test Data CH-High (5700 MHz)



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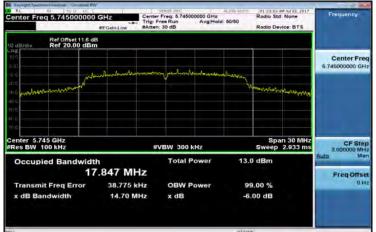


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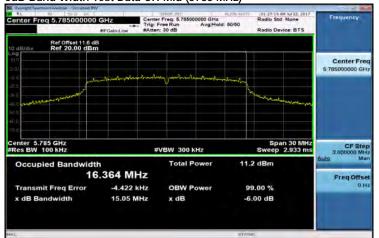
6dB Band Width measure with Peak detector for FCC

802.11a, 5725~5850 MHz (Main)

6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)

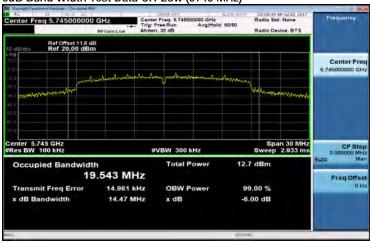


6dB Band Width Test Data CH-High (5825 MHz)

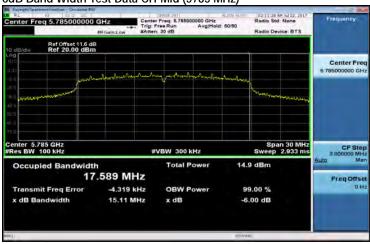


802.11n_HT20, 5725~5850 MHz (Main)

6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



6dB Band Width Test Data CH-High (5825 MHz)



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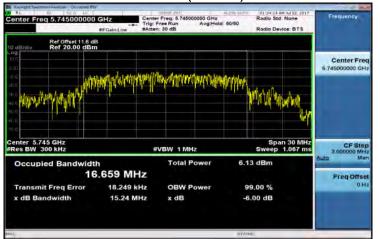
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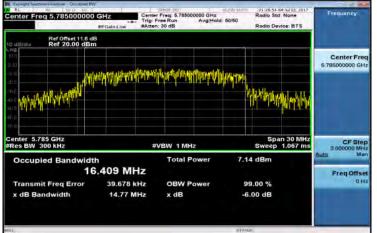
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6dB Band Width measure with Average detector for IC 802.11a, 5725~5850 MHz (Main)

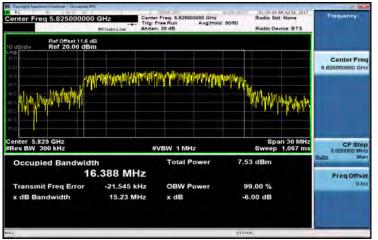
6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)

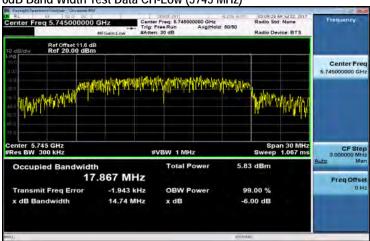


6dB Band Width Test Data CH-High (5825 MHz)

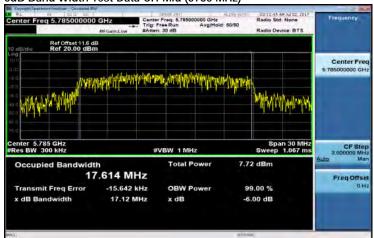


802.11n_HT20, 5725~5850 MHz (Main)

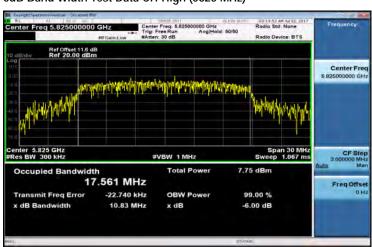
6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



6dB Band Width Test Data CH-High (5825 MHz)



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MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

Standard Applicable

FCC

OPERZTION Band		EUT CATEGORY	LIMIT
U-NII-1	Access Point (Mater device)		1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	V	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)

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 30mW or 1.76 + 10 log ₁₀ B, dBm
5250~5350 MHz	EIRP shall not exceed 30mW or 1.76 + 10 log ₁₀ B, dBm
	Conducted output power shall not exceed 250 mW or 11 +10 log ₁₀ B EIRP shall not exceed 1.0 W or 17 + 10 log ₁₀ B, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

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.

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 .
- 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 measure-
- 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.

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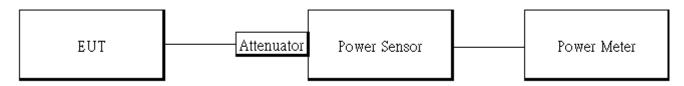
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Measurement Equipment Used 9.3

Refer to section 8.3 for details.

	Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL SERIAL		LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Power Meter	Anritsu	ML2496A	1326001	06/23/2017	06/22/2018					
Power Sensor	Anritsu	MA2411B	1315048	06/23/2017	06/22/2018					
Power Sensor	Anritsu	MA2411B	1315049	06/23/2017	06/22/2018					
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017					
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017					
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017					

9.4 Test Set-up



Measurement Result

FCC

802.11a Main

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)		REQUIRED LIMIT (dBm)		RESULT
36	5180	6	10.68		23.98		PASS
44	5220	6	10.65		23.98		PASS
48	5240	6	10.56		23.98		PASS
52	5260	6	10.59	23.98	or 11+10log(B) =	25.47	PASS
60	5300	6	10.63	23.98	or 11+10log(B) =	25.18	PASS
64	5320	6	10.67	23.98	or 11+10log(B) =	25.22	PASS
100	5500	6	10.49	23.98	or 11+10log(B) =	25.35	PASS
116	5580	6	10.56	23.98	or 11+10log(B) =	25.27	PASS
140	5700	6	10.71	23.98	or 11+10log(B) =	25.71	PASS
149	5745	6	10.57		30		PASS
157	5785	6	10.67		30		PASS
165	5825	6	10.49		30		PASS

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802.11n_HT20_Main

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	10.72		23.98		PASS
44	5220	MCS0	10.70		23.98		PASS
48	5240	MCS0	10.68		23.98		PASS
52	5260	MCS0	10.70	23.98	or 11+10log(B) =	25.20	PASS
60	5300	MCS0	10.73	23.98	or 11+10log(B) =	25.66	PASS
64	5320	MCS0	10.59	23.98	or 11+10log(B) =	25.12	PASS
100	5500	MCS0	10.51	23.98	or 11+10log(B) =	25.71	PASS
116	5580	MCS0	10.71	23.98	or 11+10log(B) =	25.66	PASS
140	5700	MCS0	10.45	23.98	or 11+10log(B) =	25.16	PASS
149	5745	MCS0	10.65		30		PASS
157	5785	MCS0	10.73		30		PASS
165	5825	MCS0	10.66		30		PASS

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IC

802.11a Main

<u></u>							
СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
100	5500	10.49	11.190	23.98	or 11+10log(B) =	23.18	PASS
116	5580	10.56	11.372	23.98	or 11+10log(B) =	23.14	PASS
140	5700	10.71	11.771	23.98	or 11+10log(B) =	23.17	PASS
149	5745	10.57	11.398		30		PASS
157	5785	10.67	11.664		30		PASS
165	5825	10.49	11.190		30		PASS

802.11n HT20 Main

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT	
100	5500	10.51	11.259	23.98	or 11+10log(B) =	23.47	PASS	
116	5580	10.71	11.789	23.98	or 11+10log(B) =	23.47	PASS	
140	5700	10.45	11.104	23.98	or 11+10log(B) =	23.43	PASS	
149	5745	10.65	11.628		30		PASS	
157	5785	10.73	11.844		30		PASS	
165	5825	10.66	11.654		30		PASS	

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802.11a_Main

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	10.68	2.000	12.68	18.528	14.77	or 1.76+10log(B)=	13.94	PASS
44	5220	10.65	2.000	12.65	18.401	14.77	or 1.76+10log(B)=	13.90	PASS
48	5240	10.56	2.000	12.56	18.023	14.77	or 1.76+10log(B)=	13.91	PASS
52	5260	10.59	2.000	12.59	18.148	14.77	or 1.76+10log(B)=	13.90	PASS
60	5300	10.63	2.000	12.63	18.316	14.77	or 1.76+10log(B)=	13.90	PASS
64	5320	10.67	2.000	12.67	18.485	14.77	or 1.76+10log(B)=	13.90	PASS
100	5500	10.49	2.000	12.49	17.735	30	or 17+10log(B)=	29.18	PASS
116	5580	10.56	2.000	12.56	18.023	30	or 17+10log(B)=	29.14	PASS
140	5700	10.71	2.000	12.71	18.657	30	or 17+10log(B)=	29.17	PASS

802.11n HT20 Main

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	10.72	2.000	12.72	18.728	14.77	or 1.76+10log(B)=	14.18	PASS
44	5220	10.70	2.000	12.70	18.642	14.77	or 1.76+10log(B)=	14.16	PASS
48	5240	10.68	2.000	12.68	18.556	14.77	or 1.76+10log(B)=	14.17	PASS
52	5260	10.70	2.000	12.70	18.642	14.77	or 1.76+10log(B)=	14.18	PASS
60	5300	10.73	2.000	12.73	18.771	14.77	or 1.76+10log(B)=	14.19	PASS
64	5320	10.59	2.000	12.59	18.176	14.77	or 1.76+10log(B)=	14.20	PASS
100	5500	10.51	2.000	12.51	17.844	30	or 17+10log(B)=	29.47	PASS
116	5580	10.71	2.000	12.71	18.685	30	or 17+10log(B)=	29.47	PASS
140	5700	10.45	2.000	12.45	17.599	30	or 17+10log(B)=	29.43	PASS

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10 PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERATION 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	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3			30dBm/ 500kHz

IC

OPERATION FREQUENCY BAND	LIMIT		
5150~5250 MHz	EIRP spectral density 10 dBm / MHz		
5250~5350 MHz	11dBm / MHz		
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz		
5725~5850 MHz	30dBm / 500 kHz		

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 com-

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

10.3 Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018	
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017	
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017	
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017	

10.4 Test Set-up



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10.5 Measurement Result

	POWER DENSITY 802.11a MODE								
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)				
5180	-7.47	0.61	-6.86	11	-17.86				
5220	-7.33	0.61	-6.72	11	-17.72				
5240	-8.32	0.61	-7.71	11	-18.71				
5260	-6.39	0.61	-5.78	11	-16.78				
5300	-8.87	0.61	-8.26	11	-19.26				
5320	-9.31	0.61	-8.70	11	-19.70				
5500	-9.16	0.61	-8.55	11	-19.55				
5580	-10.43	0.61	-9.82	11	-20.82				
5700	-11.41	0.61	-10.80	11	-21.80				
5745	0.55	0.61	0.55	30	-29.45				
5785	2.10	0.61	2.10	30	-27.90				
5825	1.49	0.61	1.49	30	-28.51				

	POWER DENSITY 802.11n HT20 MODE								
Frequency (MHz)	PPSD W/O Duty Factor (dBm)	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Margin (dB)				
5180	-10.39	0.64	-9.75	11	-20.75				
5220	-8.60	0.64	-7.96	11	-18.96				
5240	-6.51	0.64	-5.87	11	-16.87				
5260	-7.66	0.64	-7.02	11	-18.02				
5300	-8.87	0.64	-8.23	11	-19.23				
5320	-10.29	0.64	-9.65	11	-20.65				
5500	-10.77	0.64	-10.13	11	-21.13				
5580	-8.84	0.64	-8.20	11	-19.20				
5700	-10.07	0.64	-9.43	11	-20.43				
5745	-0.01	0.64	-0.01	30	-30.01				
5785	1.29	0.64	1.29	30	-28.71				
5825	2.05	0.64	2.05	30	-27.95				

EIRP

EIRP spectral density 802.11a MODE				DE	EID	Danastr	al danai	N 902 44	n UTOO M	IODE	
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)	I 'I (Gain I SI) I I				Margin (dB)	
5180	-6.86	2.00	-4.86	10	-16.86	5180	-9.75	2.00	-7.75	10	-19.75
5220	-6.72	2.00	-4.72	10	-16.72	5220	-7.96	2.00	-5.96	10	-17.96
5240	-7.71	2.00	-5.71	10	-17.71	5240	-5.87	2.00	-3.87	10	-15.87

Note:

SISO offset=

11.6 dB

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802.11a 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



Peak Power Spectral Density Data Plot (CH High 5240 MHz)



802.11a 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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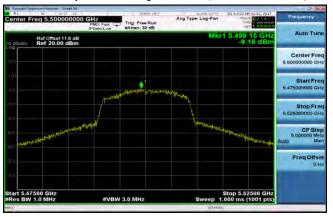
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802.11a 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11a 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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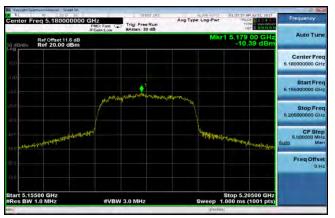
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802.11n HT20, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



Peak Power Spectral Density Data Plot (CH High 5240 MHz)



802.11n HT20, 5250~5350 MHz

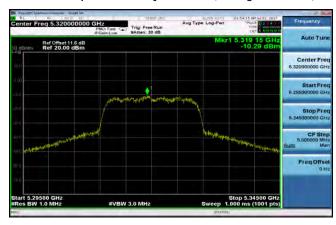
Peak Power Spectral Density Data Plot (CH Low 5260MHz)



Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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802.11n HT20, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11n HT20, 5725~5850 MHz

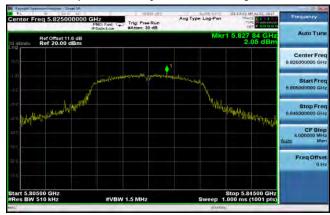
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 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.
- 2. 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	LI	MIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m		
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)	
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m	
15.407(b)(1) RSS-247 6.2.1.2 15.407(b)(2) RSS-247 6.2.2.2 15.407(b)(3) RSS-247 6.2.3.2	PK: -27 (dBm/MHz)	PK: 68.3 (dBµV/m)	
15.407(b)(4)(i) RSS-247 6.2.4.2	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	

^{*1} 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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^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} 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:

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 966 Chambe	er No.C	1					
EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT	EQUIPMENT				
TYPE	TYPE	TYPE	TYPE	TYPE	TYPE				
EMI Test Receiver	R&S	ESU 40	100363	04/18/2017	04/17/2018				
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2016	12/22/2017				
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017				
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017				
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017				
Pre Amplifier	EMC Instru- ments	EMC330	980096	12/12/2016	12/11/2017				
Pre Amplifier	EMC Instru- ments	EMC0011830	980199	12/12/2016	12/11/2017				
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017				
Pre Amplifier	EMC Instru- ments	EMC184045B	980135	12/12/2016	12/11/2017				
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017				
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017				
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017				
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017				
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017				
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017				
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017				
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018				
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018				
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2017	05/03/2018				
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.				

NOTE: N.C.R refers to Not Calibrated Required.

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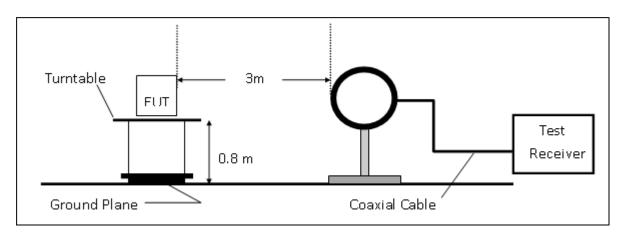
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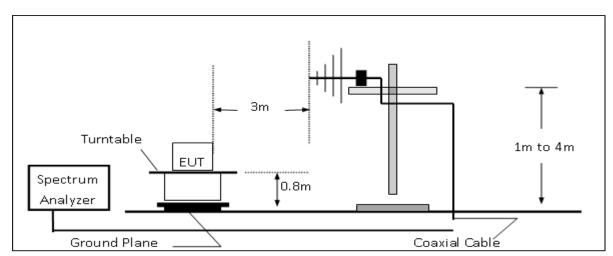
11.3 Test SET-UP

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



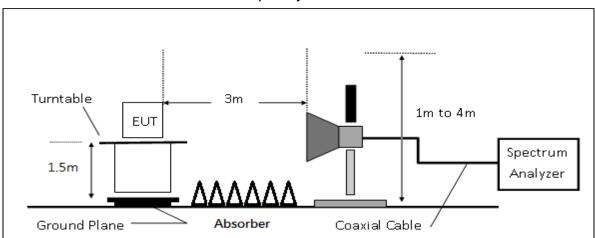
11.1

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



11.2

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



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11.4 Measurement Procedure

- 1. 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 .
- 3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency 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 μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/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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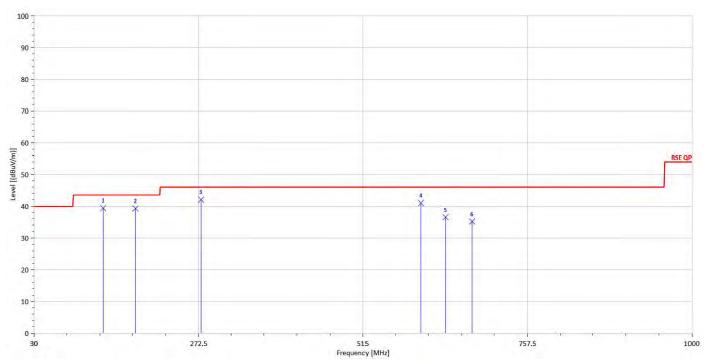
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Radiated Spurious Emission Measurement Result Below 1GHz Worst-Case Data: 802.11a 5150~5250 MHz

Operation Mode: 802.11a Test Date: 2017/7/18

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton 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	dΒμV	dB	dBµV/m	dBµV/m	dB
131.85	S	Peak	51.93	-12.47	39.45	43.5	-4.05
179.38	S	Peak	54.63	-15.25	39.38	43.5	-4.12
276.38	S	Peak	52.68	-10.64	42.04	46	-3.96
600.36	S	Peak	43.90	-2.86	41.04	46	-4.96
637.22	S	Peak	38.85	-2.25	36.59	46	-9.41
676.02	S	Peak	37.23	-1.99	35.23	46	-10.77

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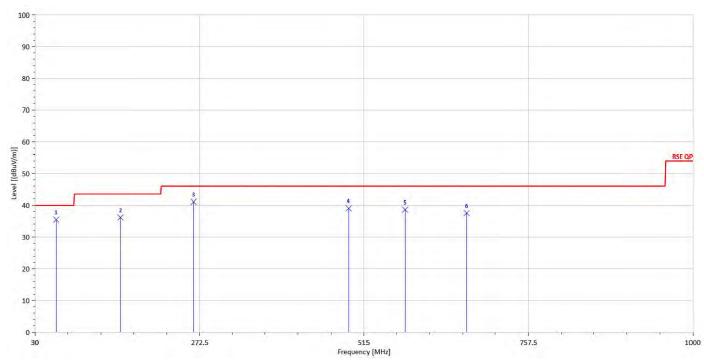


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Operation Mode: 802.11a Test Date: 2017/7/18

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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
61.04	S	Peak	55.24	-19.73	35.50	40	-4.50
156.10	S	Peak	50.08	-13.90	36.18	43.5	-7.32
263.77	S	Peak	51.56	-10.47	41.09	46	-4.91
492.69	S	Peak	43.93	-4.85	39.07	46	-6.93
576.11	S	Peak	41.86	-3.20	38.66	46	-7.34
666.32	S	Peak	39.32	-1.74	37.58	46	-8.42

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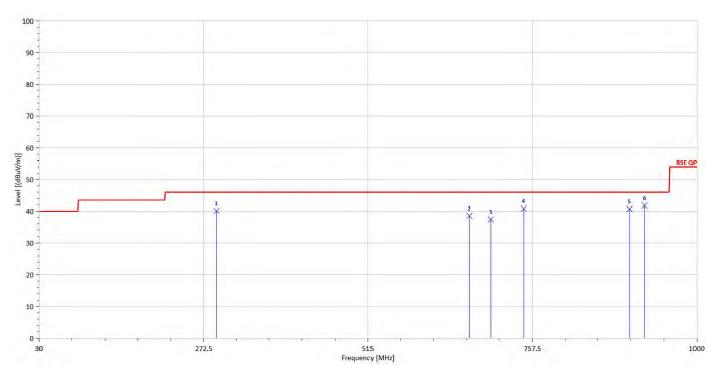
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802.11a 5250~5350 MHz

Operation Mode: 802.11a Test Date: 2017/7/18

Fundamental Frequency: 5300 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: 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
291.90	S	Peak	50.48	-10.33	40.15	46	-5.85
664.38	S	Peak	40.29	-1.70	38.59	46	-7.41
696.39	S	Peak	39.66	-2.21	37.45	46	-8.55
744.89	S	Peak	41.65	-0.80	40.84	46	-5.16
901.06	S	Peak	39.40	1.35	40.75	46	-5.25
923.37	S	Peak	40.24	1.58	41.82	46	-4.18

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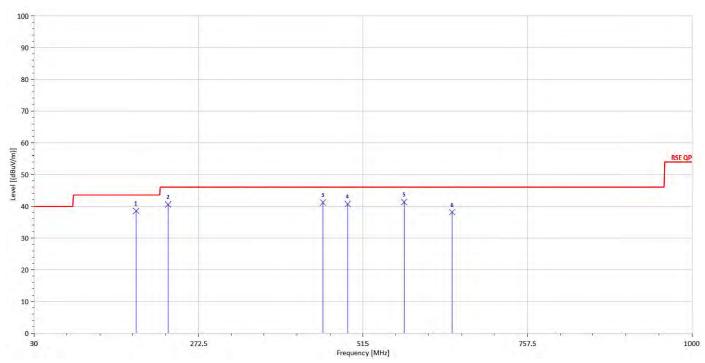


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Operation Mode: 802.11a Test Date: 2017/7/18

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

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



Freq.	Note	Detector	Sp ectum 5 ct	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
180.35	S	Peak	53.86	-15.28	38.58	43.5	-4.92
227.88	S	Peak	53.89	-13.27	40.62	46	-5.38
455.83	S	Peak	46.72	-5.54	41.19	46	-4.81
492.69	S	Peak	45.61	-4.85	40.76	46	-5.24
576.11	S	Peak	44.55	-3.20	41.35	46	-4.65
646.92	S	Peak	40.02	-1.81	38.21	46	-7.79

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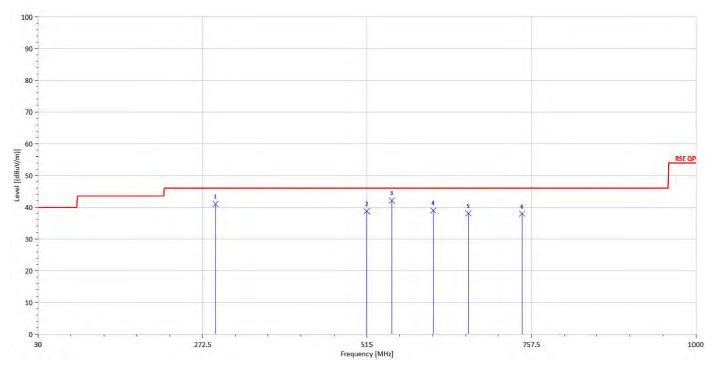
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802.11a, 5470~5725 MHz

Operation Mode: 802.11a Test Date: 2017/7/18

Fundamental Frequency: 5580 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: 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
291.90	S	Peak	51.36	-10.33	41.03	46	-4.97
515.00	S	Peak	43.33	-4.54	38.79	46	-7.21
551.86	S	Peak	45.54	-3.44	42.10	46	-3.90
612.97	S	Peak	41.97	-2.94	39.03	46	-6.97
664.38	S	Peak	39.84	-1.70	38.14	46	-7.86
743.92	S	Peak	38.86	-0.82	38.04	46	-7.96

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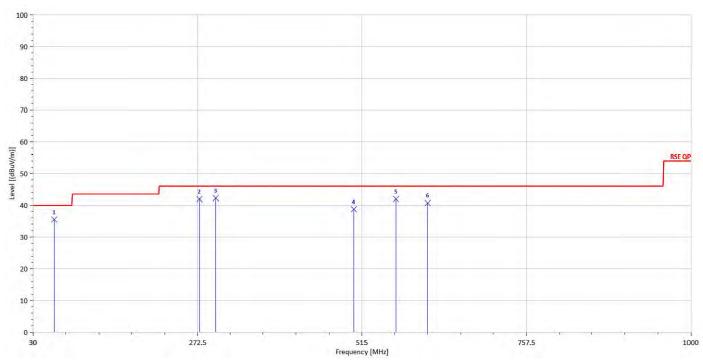


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Operation Mode: 802.11a Test Date: 2017/7/18

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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
61.04	S	Peak	55.27	-19.73	35.54	40	-4.46
275.41	S	Peak	52.60	-10.66	41.95	46	-4.05
299.66	S	Peak	52.35	-10.13	42.22	46	-3.78
503.36	S	Peak	43.55	-4.74	38.81	46	-7.19
565.44	S	Peak	45.38	-3.40	41.98	46	-4.02
612.00	S	Peak	43.68	-2.94	40.74	46	-5.26

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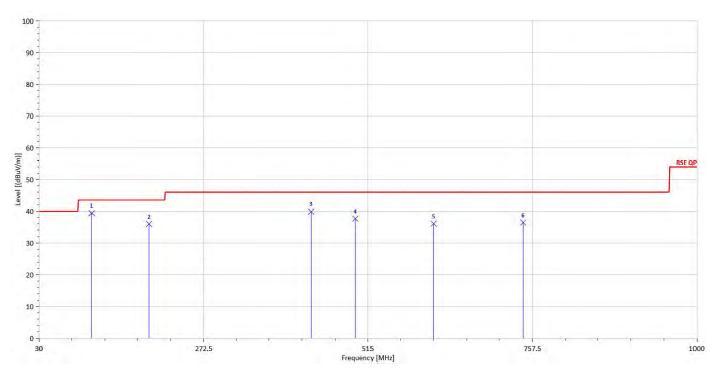
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802.11a, 5725~5850 MHz

Operation Mode: 802.11a Test Date: 2017/7/18

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Mid Ashton EUT Pol.: 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
107.60	S	Peak	53.21	-13.78	39.43	43.5	-4.07
191.99	S	Peak	51.05	-15.02	36.03	43.5	-7.47
431.58	S	Peak	45.63	-5.70	39.93	46	-6.07
496.57	S	Peak	42.52	-4.81	37.71	46	-8.29
612.00	S	Peak	39.04	-2.94	36.11	46	-9.89
743.92	S	Peak	37.30	-0.82	36.49	46	-9.51

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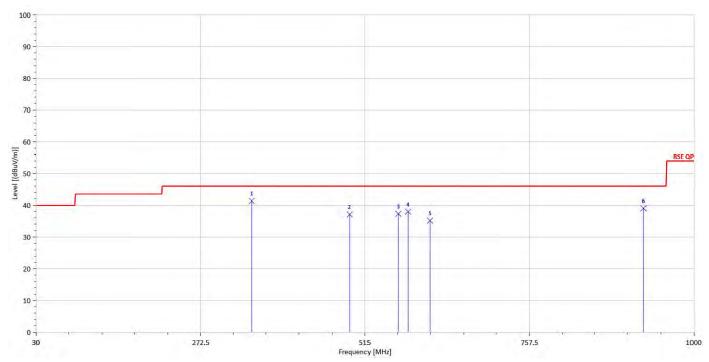


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Operation Mode: Test Date: 2017/7/18 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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
348.16	S	Peak	49.64	-8.28	41.36	46	-4.64
492.69	S	Peak	42.00	-4.85	37.15	46	-8.85
564.47	S	Peak	40.76	-3.41	37.35	46	-8.65
579.02	S	Peak	41.17	-3.13	38.03	46	-7.97
611.03	S	Peak	38.12	-2.94	35.18	46	-10.82
926.28	S	Peak	37.47	1.62	39.10	46	-6.90

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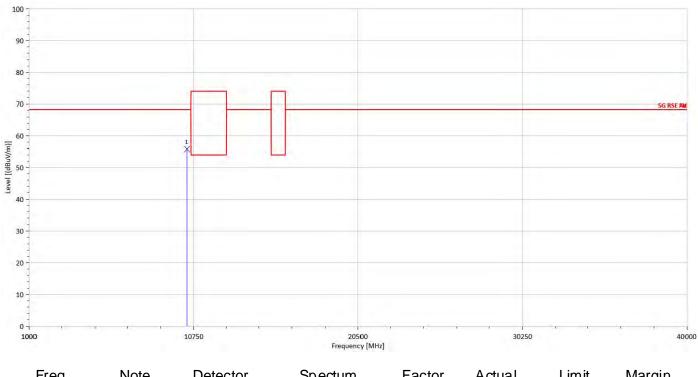
Above 1GHz Worst-Case Data:

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

Operation Mode: 802.11a Test Date: 2017/7/14

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Н 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
10360.00	Н	Peak	30.06	25.76	55.82	68.3	-12.48

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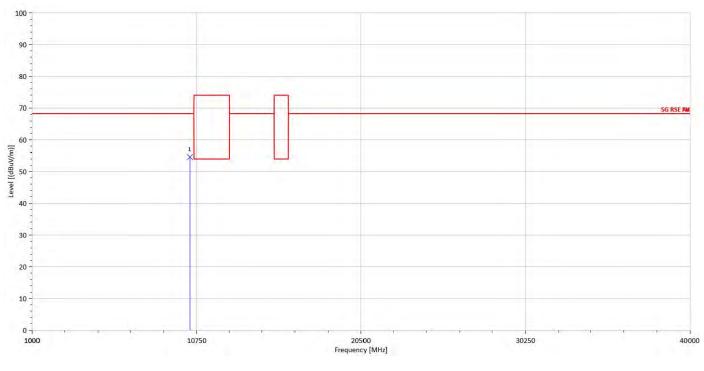


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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
10360.00	Н	Peak	28.88	25.76	54.64	68.3	-13.66

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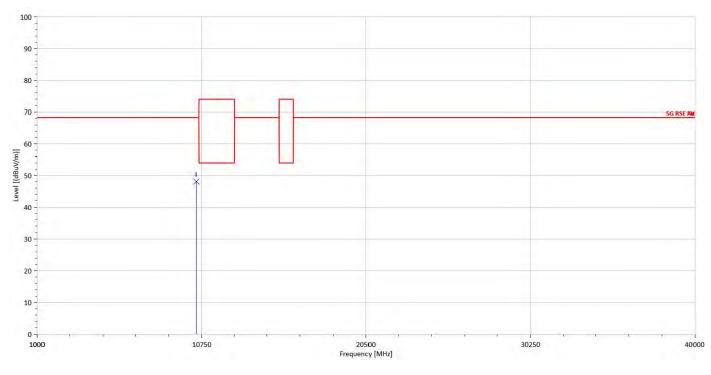


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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
10440.00	Н	Peak	22.37	25.77	48.14	68.3	-20.16

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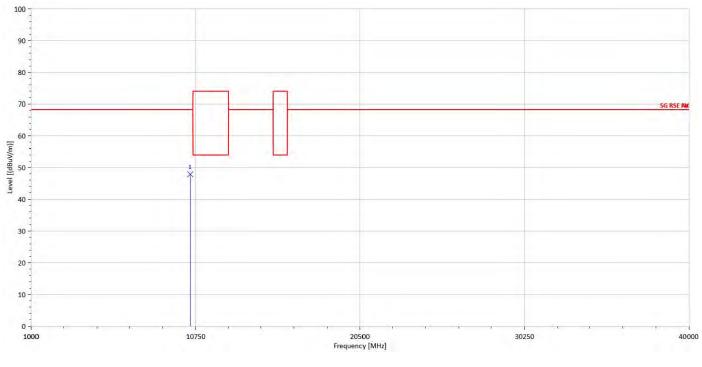


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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
10440.00	Н	Peak	22.10	25.77	47.87	68.3	-20.43

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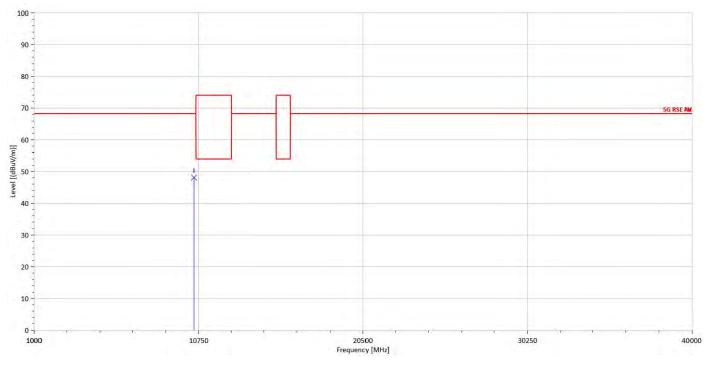


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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
10480.00	Н	Peak	22.34	25.78	48.12	68.3	-20.18

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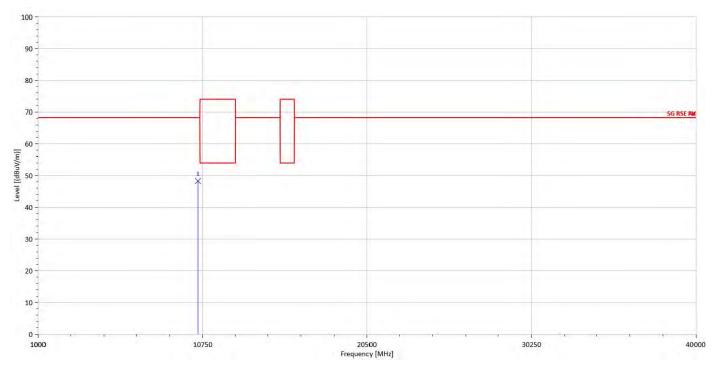


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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
10480.00	Н	Peak	22.50	25.78	48.28	68.3	-20.02

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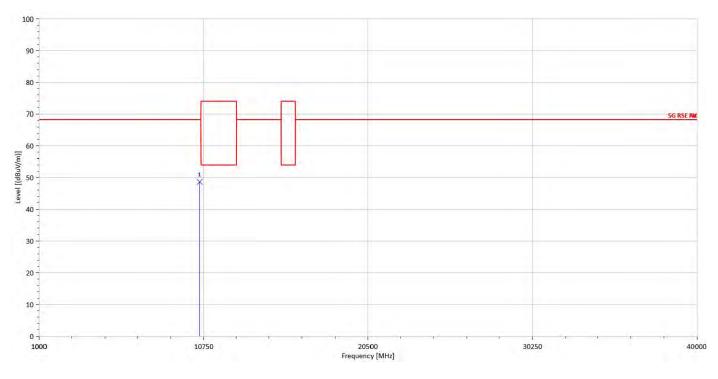
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Test Date: Operation Mode: 802.11a 2017/7/14

Temp. / Humi.: Fundamental Frequency: 5260 MHz 22.7deg_C/57RH

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



Freq.	Note	Detector	Sp ectum 5 ct	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	22.82	25.82	48.64	68.3	-19.66

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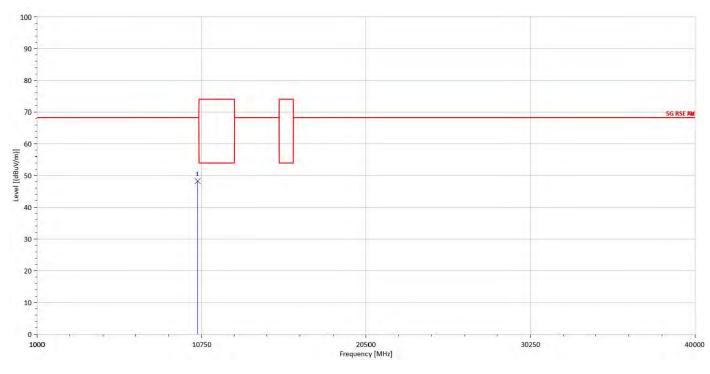


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Operation Mode: 802.11a Test Date: 2017/7/14

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

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



Freq.	Note	Detector	Sp ectum 5 ct	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
10520.00	Н	Peak	22.43	25.82	48.25	68.3	-20.05

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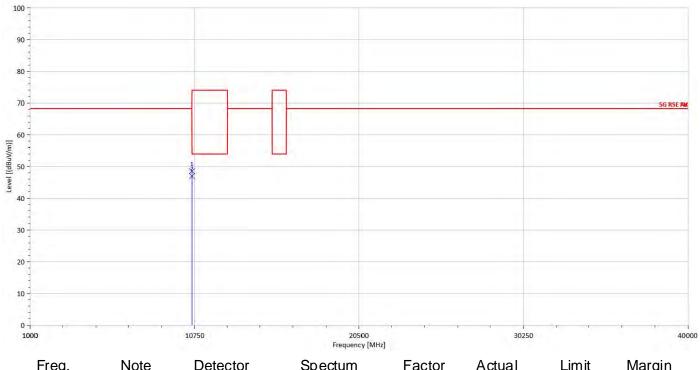


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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	22.60	25.94	48.54	74	-25.46
10600.00	Н	Average	21.02	25.94	46.96	54	-7.04

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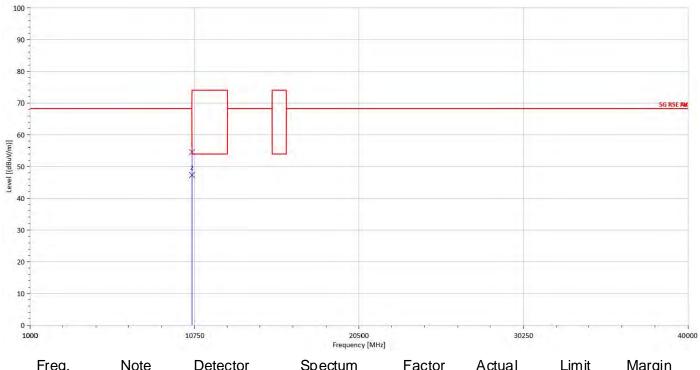


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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	28.67	25.94	54.61	74	-19.39
10600.00	Н	Average	21.37	25.94	47.31	54	-6.69

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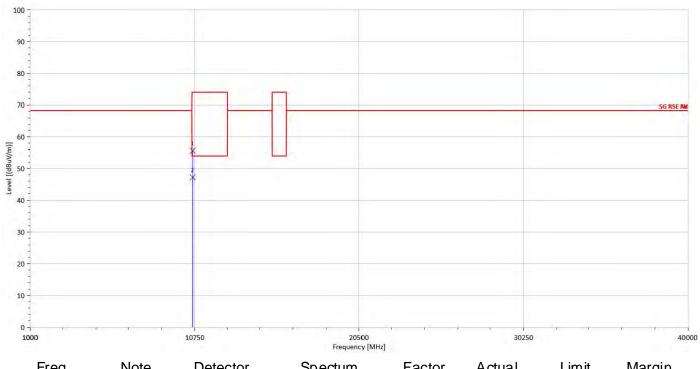


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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	29.56	26.07	55.62	74	-18.38
10640.00	Н	Average	21.16	26.07	47.23	54	-6.77

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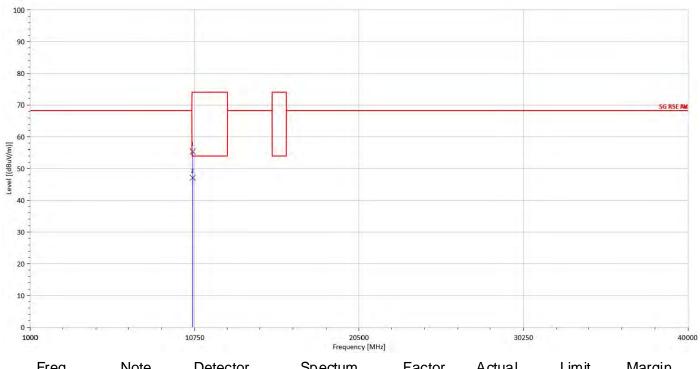


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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	29.33	26.07	55.40	74	-18.60
10640.00	Н	Average	21.01	26.07	47.08	54	-6.92

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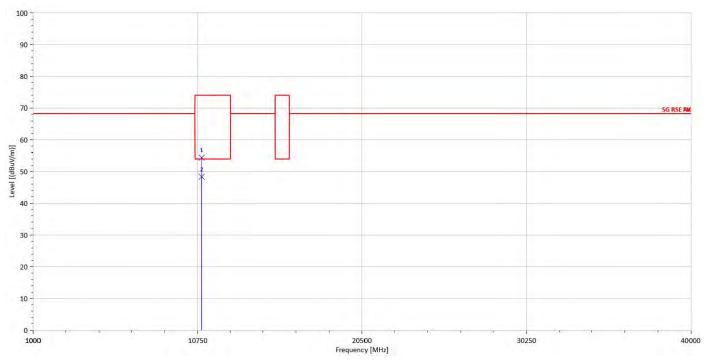
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Test Date: Operation Mode: 802.11a 2017/7/14

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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
11000.00	Н	Peak	27.37	27.06	54.43	74	-19.57
11000.00	Н	Average	21.30	27.06	48.36	54	-5.64

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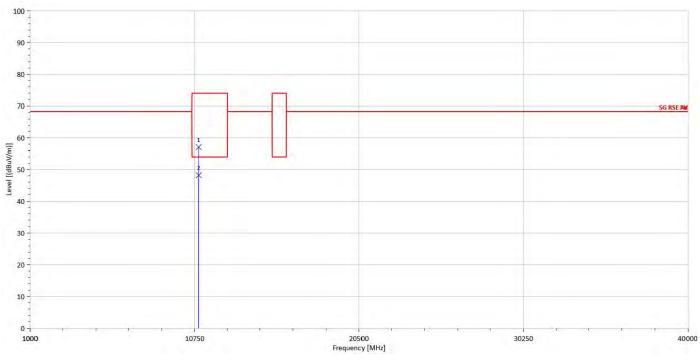


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11000.00	Н	Peak	29.96	27.06	57.02	74	-16.98
11000.00	Н	Average	21.14	27.06	48.20	54	-5.80

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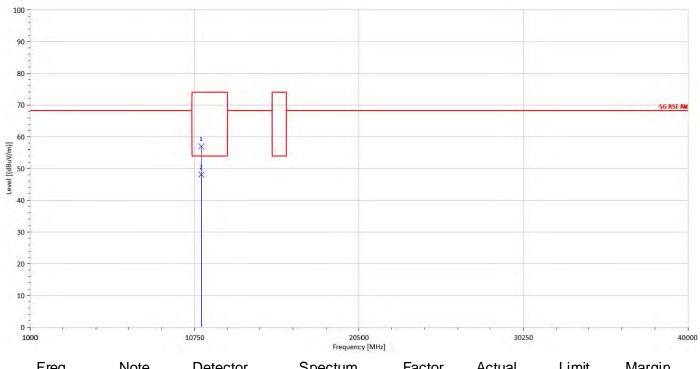


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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
11160.00	Н	Peak	30.17	26.76	56.92	74	-17.08
11160.00	Н	Average	21.35	26.76	48.11	54	-5.89

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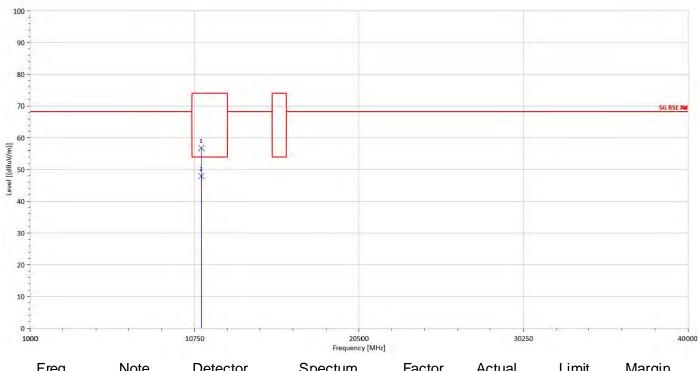


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11160.00	Н	Peak	29.97	26.76	56.72	74	-17.28
11160.00	Н	Average	21.15	26.76	47.91	54	-6.09

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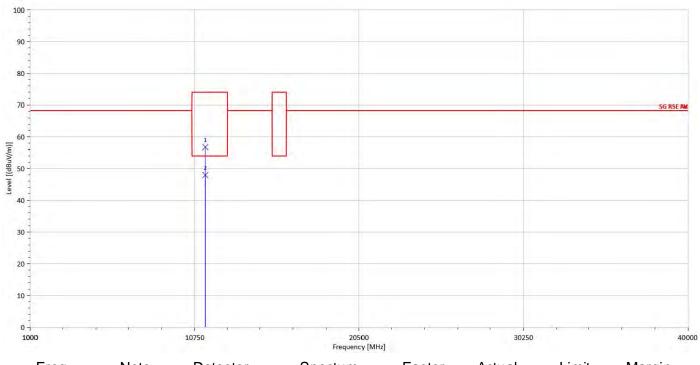


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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
11400.00	Н	Peak	30.14	26.59	56.73	74	-17.27
11400.00	Н	Average	21.37	26.59	47.96	54	-6.04

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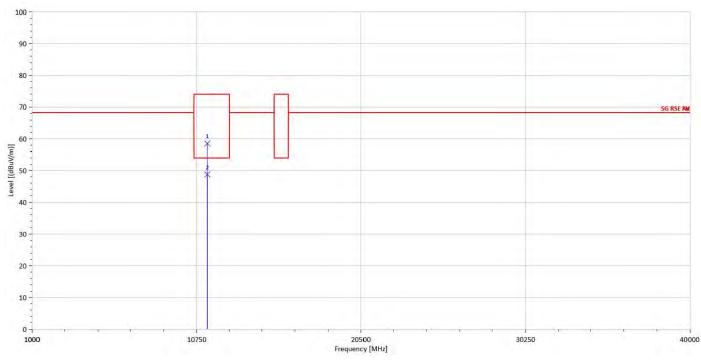


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11400.00	Н	Peak	31.89	26.59	58.48	74	-15.52
11400.00	Н	Average	22.17	26.59	48.76	54	-5.24

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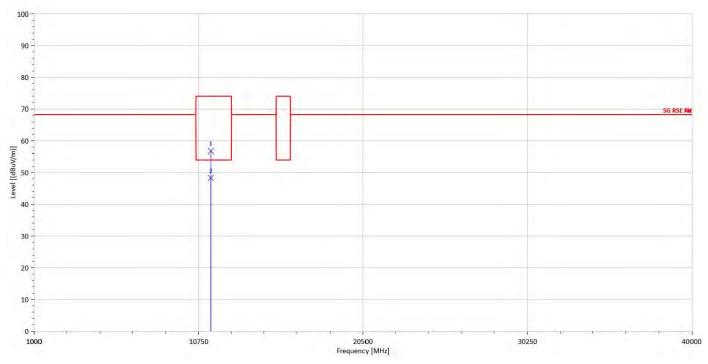
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Test Date: Operation Mode: 802.11a 2017/7/14

Temp. / Humi.: Fundamental Frequency: 5745 MHz 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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	30.04	26.70	56.74	74	-17.26
11490.00	Н	Average	21.60	26.70	48.30	54	-5.70

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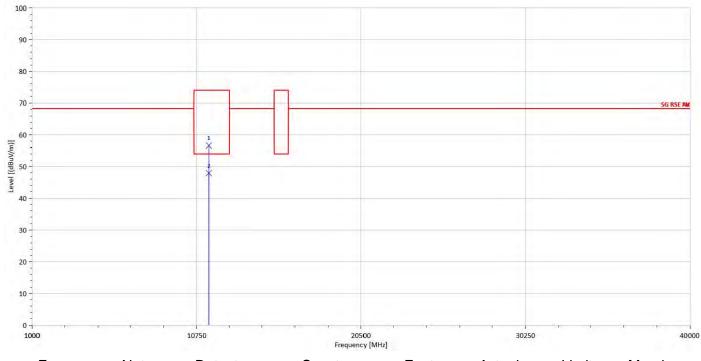


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11490.00	Н	Peak	29.90	26.70	56.60	74	-17.40
11490.00	Н	Average	21.22	26.70	47.92	54	-6.08

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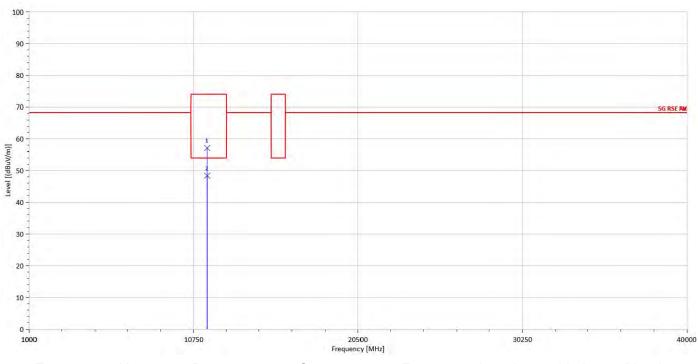


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11570.00	Н	Peak	30.39	26.68	57.06	74	-16.94
11570.00	Н	Average	21.72	26.68	48.40	54	-5.61

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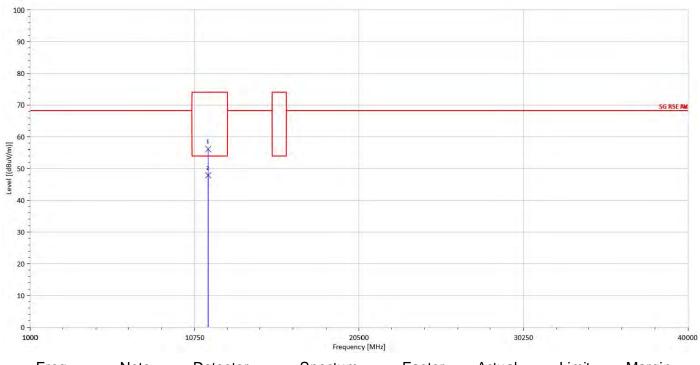


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Operation Mode: Test Date: 2017/7/14 802.11a

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

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11570.00	Н	Peak	29.46	26.68	56.14	74	-17.86
11570.00	Н	Average	21.20	26.68	47.88	54	-6.13

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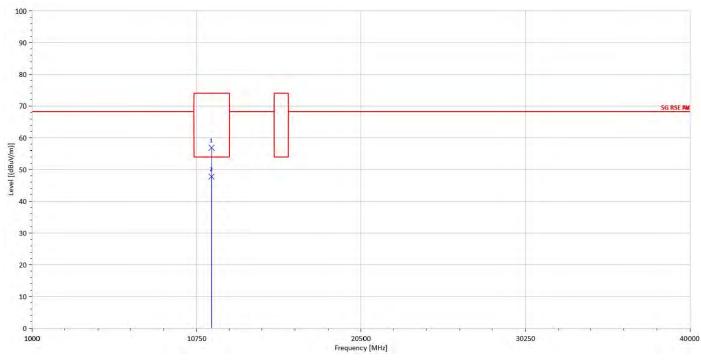


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11650.00	Н	Peak	30.21	26.62	56.83	74	-17.17
11650.00	Н	Average	21.14	26.62	47.76	54	-6.24

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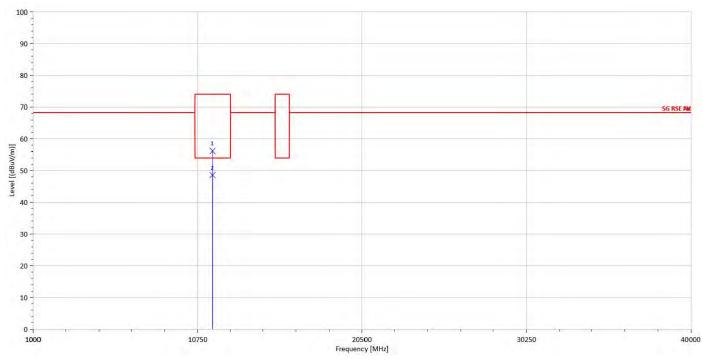


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11650.00	Н	Peak	29.54	26.62	56.16	74	-17.84
11650.00	Н	Average	21.95	26.62	48.57	54	-5.43

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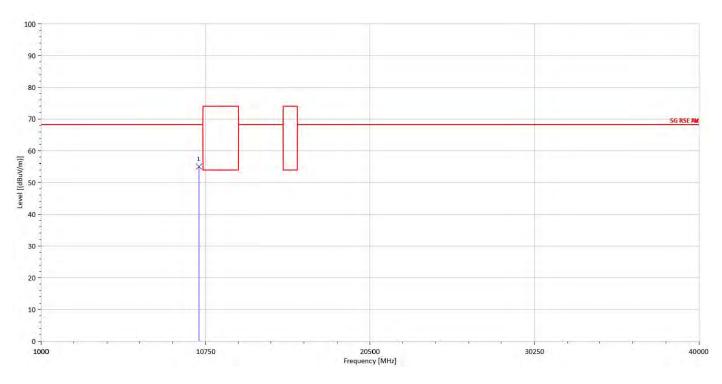
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

802.11n20 Test Date: Operation Mode: 2017/7/14

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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	29.32	25.76	55.08	68.3	-13.22

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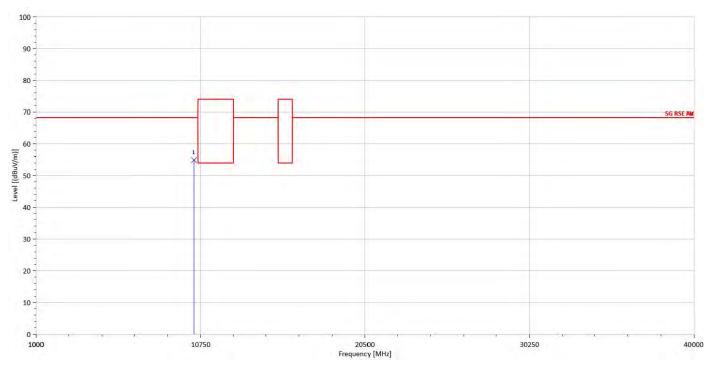


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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
10360.00	Н	Peak	29.16	25.76	54.92	68.3	-13.38

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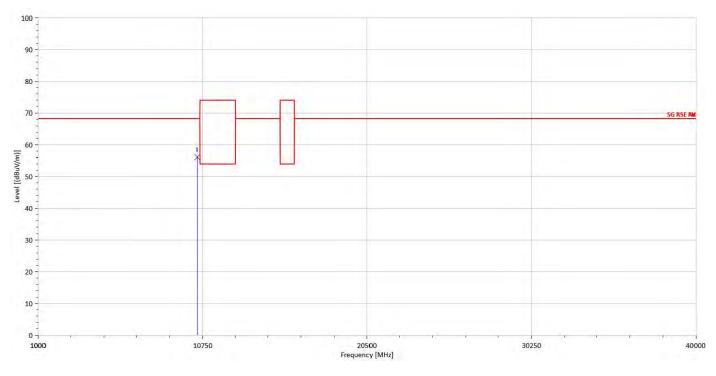


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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
10440.00	Н	Peak	30.37	25.77	56.14	68.3	-12.16

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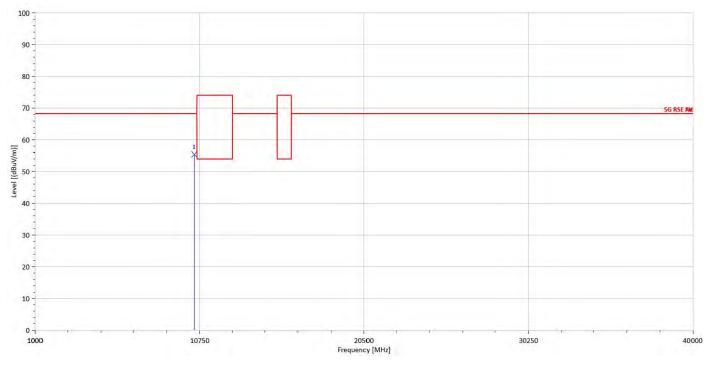


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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
10440.00	Н	Peak	29.65	25.77	55.43	68.3	-12.87

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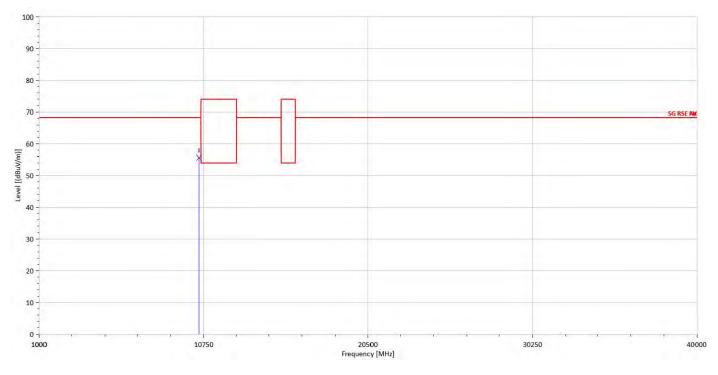


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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
10480.00	Н	Peak	29.86	25.78	55.64	68.3	-12.66

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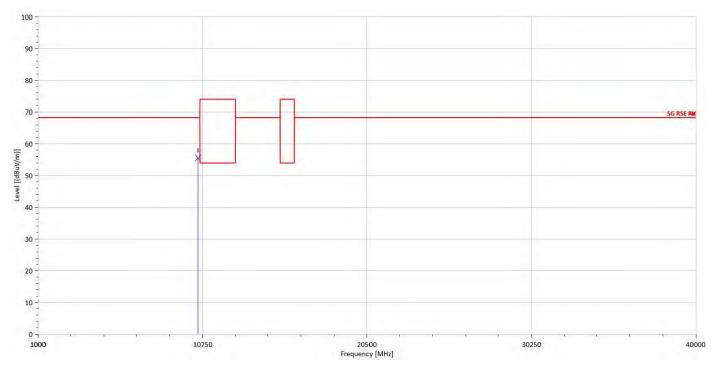


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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	29.78	25.78	55.56	68.3	-12.74

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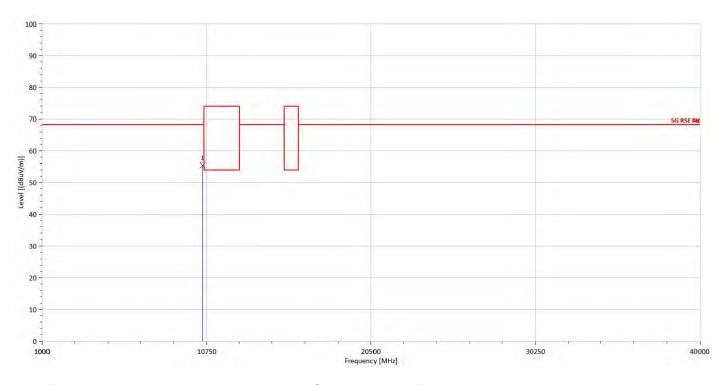
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

802.11n20 Test Date: Operation Mode: 2017/7/14

Fundamental Frequency: 5260 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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	29.65	25.82	55.47	68.3	-12.83

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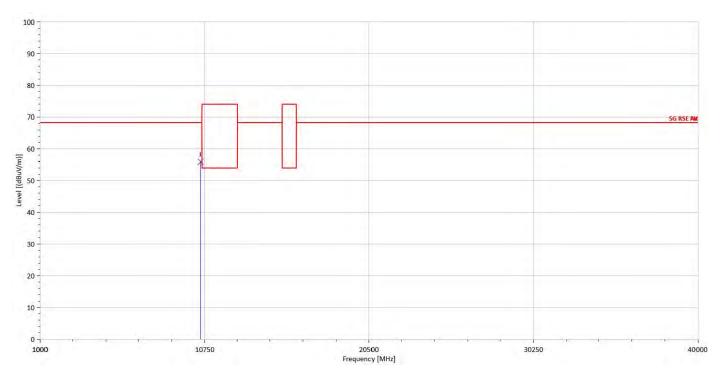


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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
10520.00	Н	Peak	30.11	25.82	55.93	68.3	-12.37

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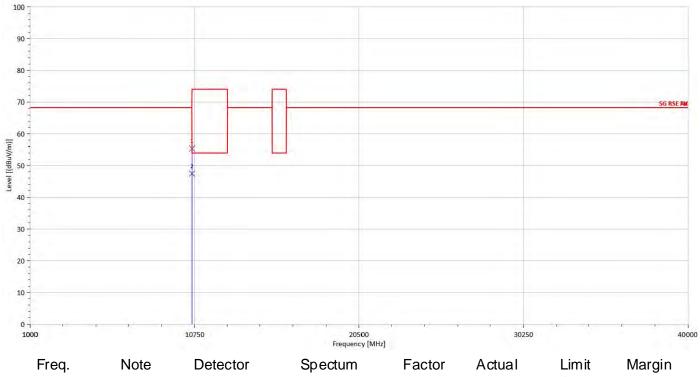


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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
10600.00	Н	Peak	29.44	25.94	55.38	74	-18.62
10600.00	Н	Average	21.51	25.94	47.45	54	-6.55

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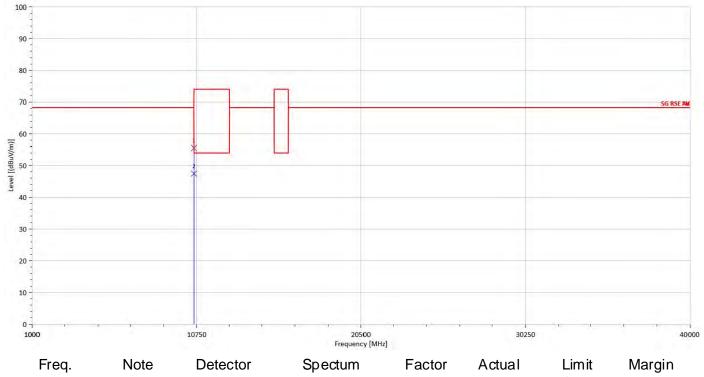


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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	29.60	25.94	55.54	74	-18.46
10600.00	Н	Average	21.52	25.94	47.46	54	-6.54

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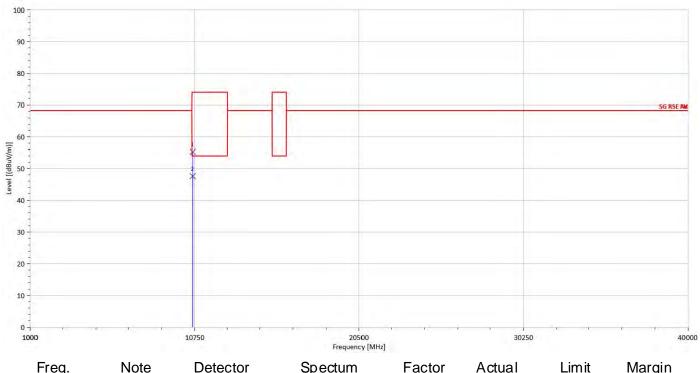


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

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



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	29.21	26.07	55.28	74	-18.72
10640.00	Н	Average	21.53	26.07	47.60	54	-6.40

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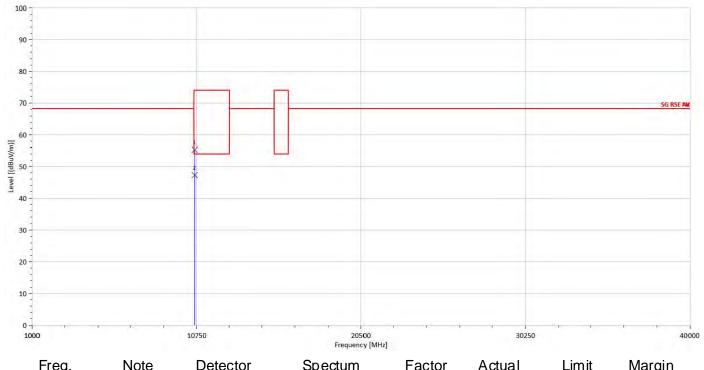


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

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



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	29.24	26.07	55.30	74	-18.70
10640.00	Н	Average	21.24	26.07	47.31	54	-6.69

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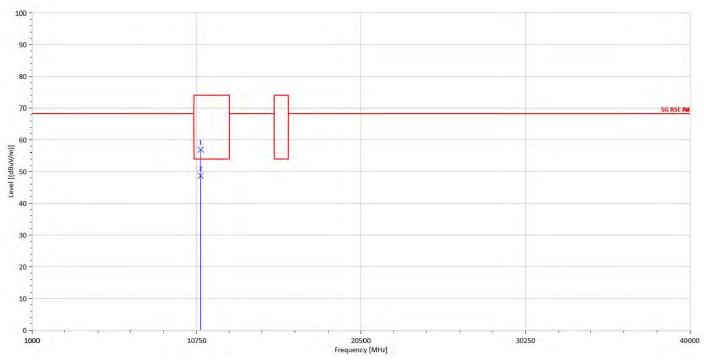
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

802.11n20 Test Date: Operation Mode: 2017/7/14

Fundamental Frequency: 5500 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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
11000.00	Н	Peak	29.81	27.06	56.87	74	-17.13
11000.00	Н	Average	21.60	27.06	48.66	54	-5.34

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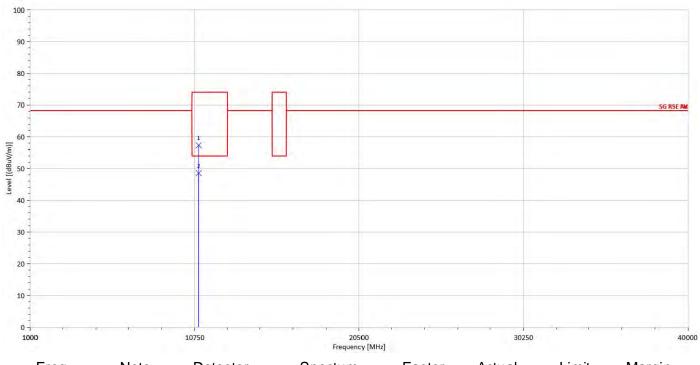


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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
11000.00	Н	Peak	30.22	27.06	57.28	74	-16.72
11000.00	Н	Average	21.48	27.06	48.54	54	-5.46

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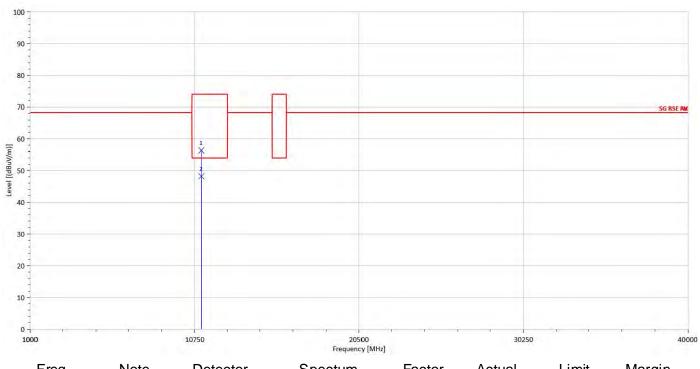


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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
11160.00	Н	Peak	29.58	26.76	56.34	74	-17.66
11160.00	Н	Average	21.43	26.76	48.19	54	-5.81

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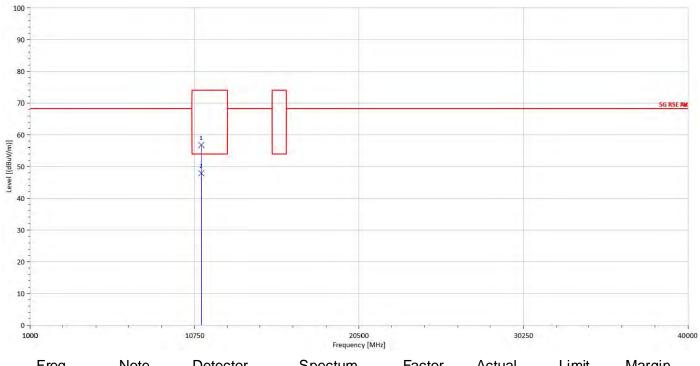


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

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



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
11160.00	Н	Peak	29.97	26.76	56.73	74	-17.27
11160.00	Н	Average	21.13	26.76	47.89	54	-6.11

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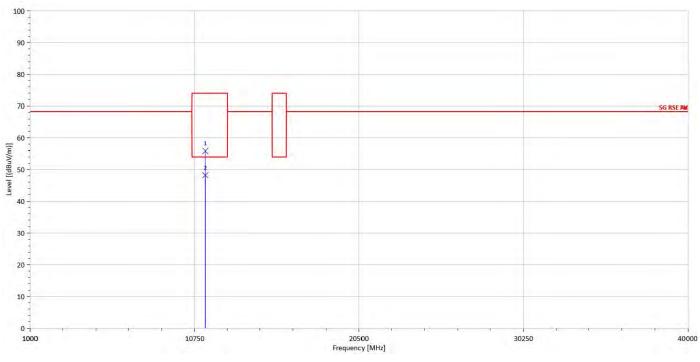


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

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



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
11400.00	Н	Peak	29.26	26.59	55.85	74	-18.15
11400.00	Н	Average	21.62	26.59	48.21	54	-5.79

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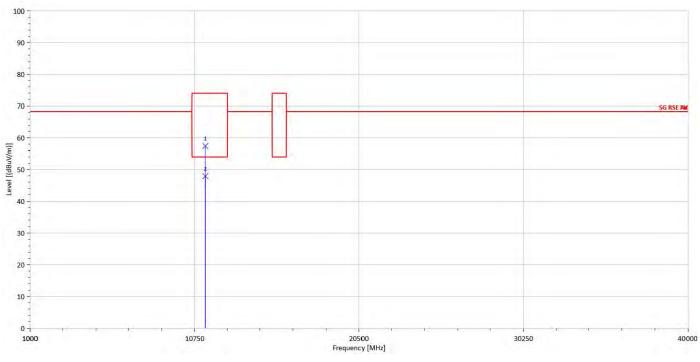


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dBµV/m	dB
11400.00	Н	Peak	30.77	26.59	57.36	74	-16.64
11400.00	Н	Average	21.32	26.59	47.91	54	-6.09

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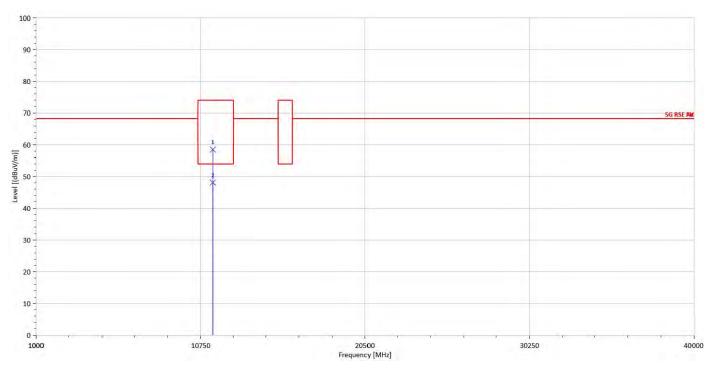
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

802.11n20 Test Date: Operation Mode: 2017/7/14

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: 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
11490.00	Н	Peak	31.76	26.70	58.46	74	-15.54
11490.00	Н	Average	21.41	26.70	48.11	54	-5.89

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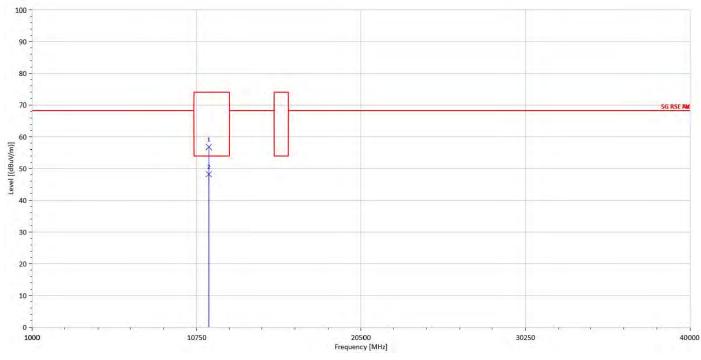


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

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



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
11490.00	Н	Peak	30.05	26.70	56.75	74	-17.25
11490.00	Н	Average	21.51	26.70	48.21	54	-5.79

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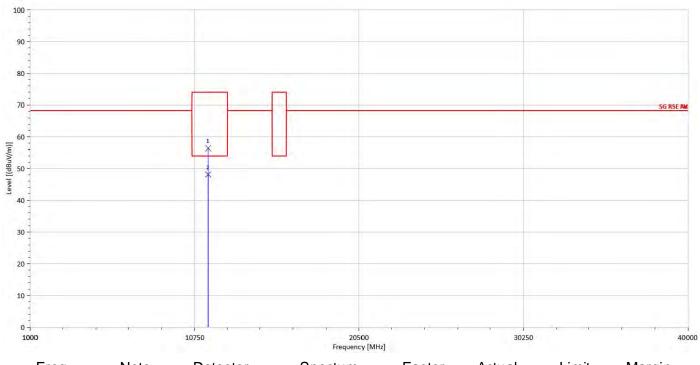


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

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



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
11570.00	Н	Peak	29.71	26.68	56.38	74	-17.62
11570.00	Н	Average	21.45	26.68	48.13	54	-5.88

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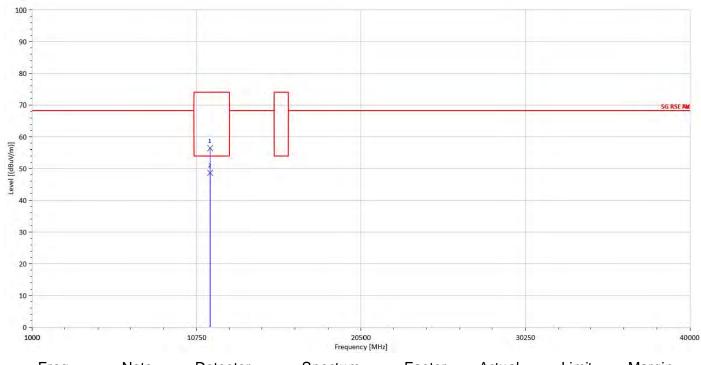


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

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



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	29.75	26.68	56.43	74	-17.57
11570.00	Н	Average	21.97	26.68	48.65	54	-5.36

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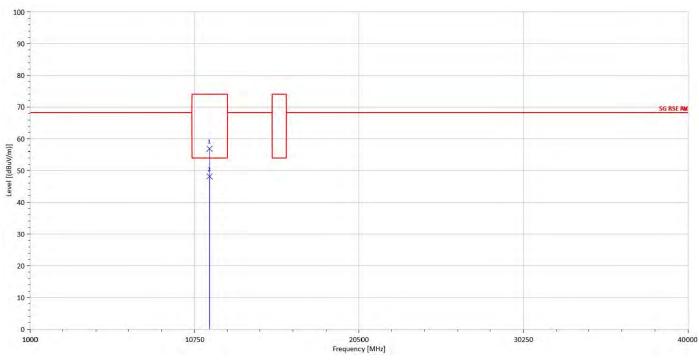


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

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



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
11650.00	Н	Peak	30.20	26.62	56.82	74	-17.18
11650.00	Н	Average	21.54	26.62	48.16	54	-5.84

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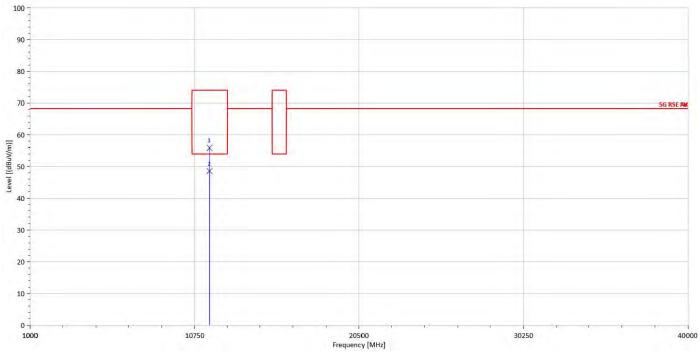


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Operation Mode: Test Date: 2017/7/14 802.11n20

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

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



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@ 3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
11650.00	Н	Peak	29.26	26.62	55.88	74	-18.12
11650.00	Н	Average	21.95	26.62	48.57	54	-5.43

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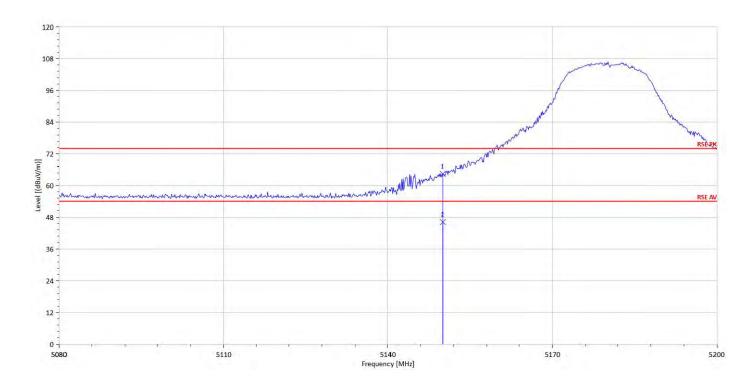
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Band edge falling to restricted band 802.11a mode

Operation Mode: 802.11a Test Date: 2017/7/13

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: 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	dΒμV/m	dB
5150.00	Е	Peak	50.12	14.32	64.44	74	-9.56
5150.00	Е	Average	31.94	14.32	46.26	54	-7.74

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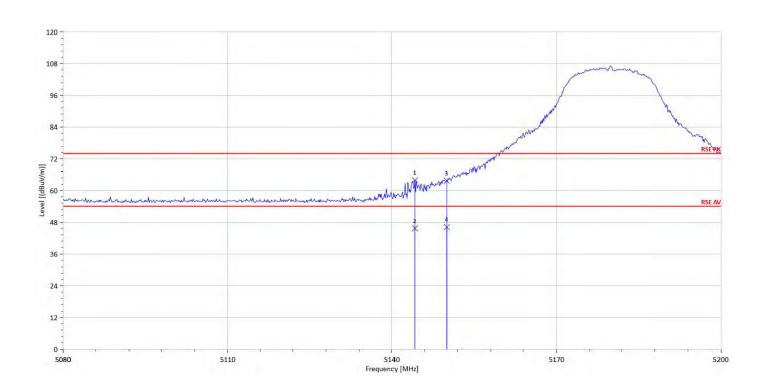


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: 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
5144.20	S	Peak	49.63	14.31	63.94	74	-10.06
5144.20	S	Average	31.46	14.31	45.77	54	-8.23
5150.00	E	Peak	49.42	14.32	63.74	74	-10.26
5150.00	Е	Average	31.92	14.32	46.24	54	-7.76

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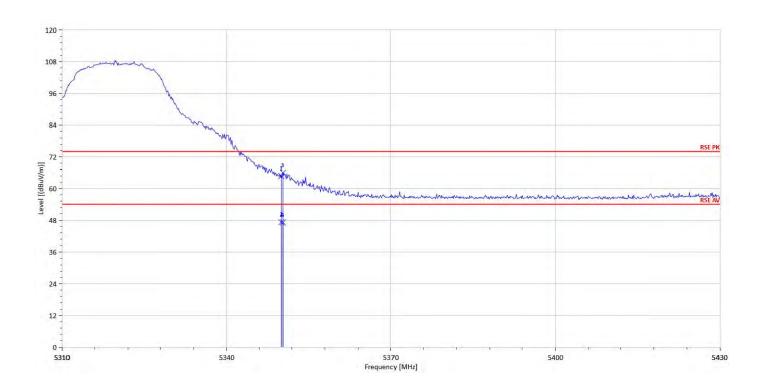


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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	50.36	14.44	64.80	74	-9.20
5350.00	E	Average	32.89	14.44	47.33	54	-6.67
5350.32	S	Peak	51.58	14.44	66.02	74	-7.98
5350.32	S	Average	32.79	14.44	47.23	54	-6.77

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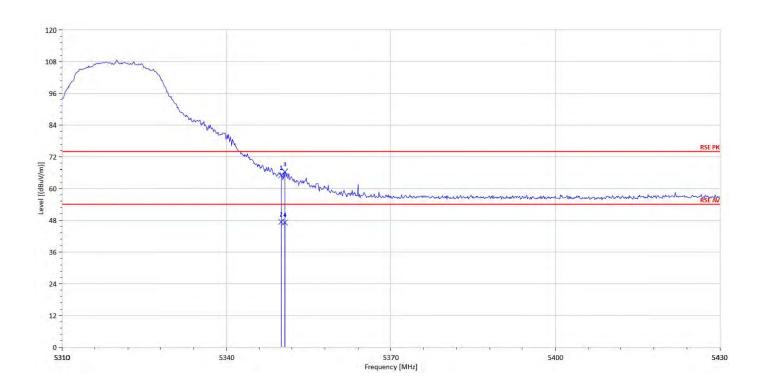


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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	E	Peak	50.69	14.44	65.13	74	-8.87
5350.00	E	Average	33.02	14.44	47.46	54	-6.54
5350.68	S	Peak	51.96	14.44	66.40	74	-7.60
5350.68	S	Average	32.81	14.44	47.25	54	-6.75

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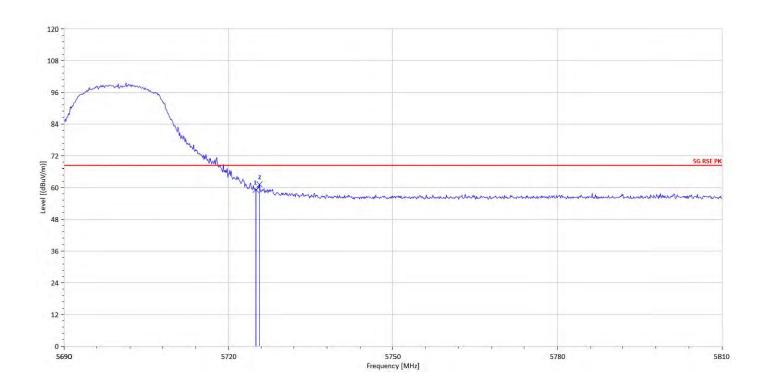


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: 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
5458.40	S	Peak	47.59	14.51	62.10	74	-11.90
5458.40	S	Average	31.82	14.51	46.33	54	-7.67
5460.00	Е	Peak	45.55	14.51	60.06	74	-13.94
5460.00	Ε	Average	31.90	14.51	46.41	54	-7.59

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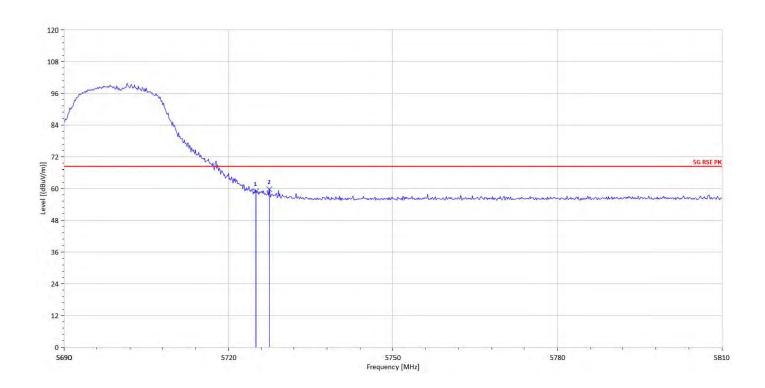


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: Н 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
5457.80	S	Peak	45.36	14.50	59.86	74	-14.14
5457.80	S	Average	31.56	14.50	46.06	54	-7.94
5460.00	Е	Peak	44.87	14.51	59.37	74	-14.63
5460.00	Ε	Average	31.65	14.51	46.16	54	-7.84

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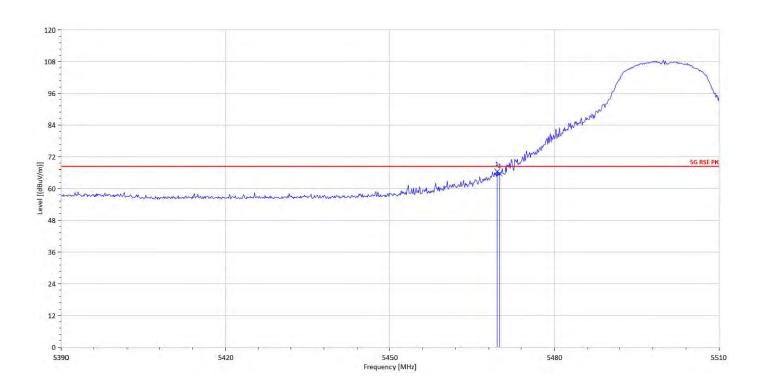


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: Η 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	dΒμV/m	dB
5469.56	S	Peak	51.93	14.51	66.44	68.3	-1.86
5470.00	E	Peak	51.27	14.51	65.79	68.3	-2.51

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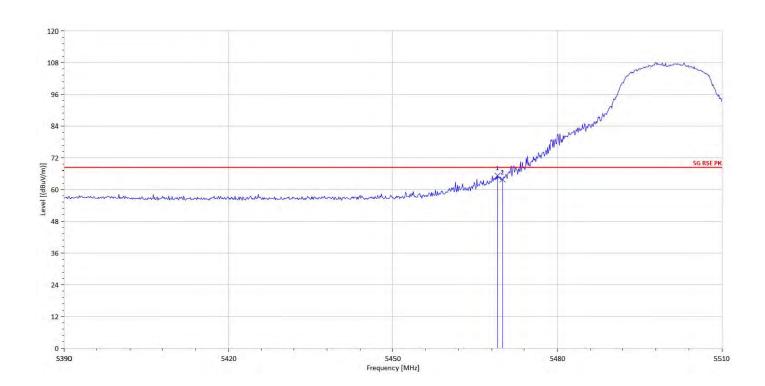


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: Η 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
5469.08	S	Peak	50.81	14.51	65.32	68.3	-2.98
5470.00	E	Peak	49.34	14.51	63.85	68.3	-4.45

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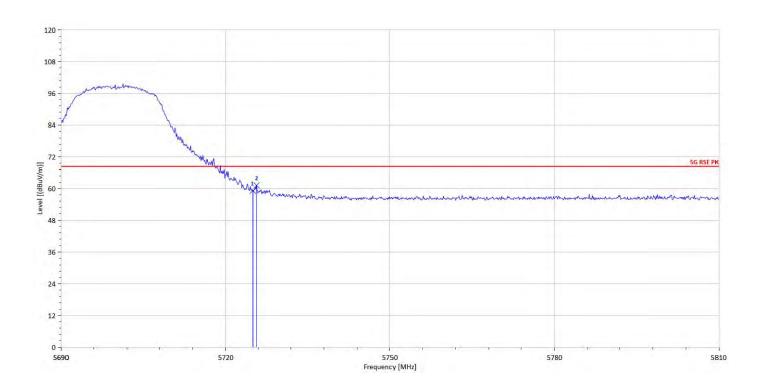


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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
5725.00	Е	Peak	44.11	15.03	59.13	68.3	- 9.17
5725.64	S	Peak	46.19	15.03	61.22	68.3	- 7.08

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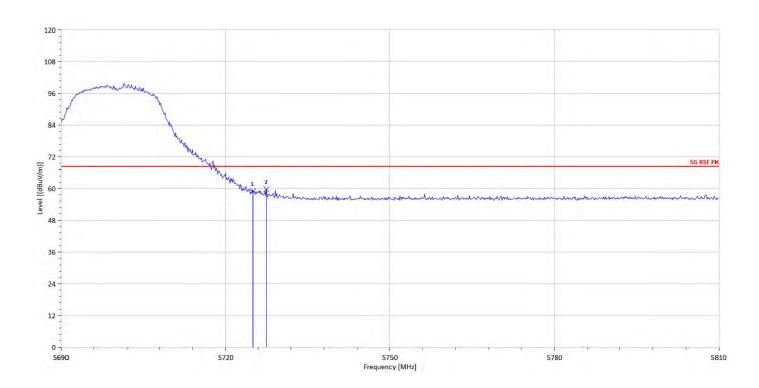


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Operation Mode: 802.11a Test Date: 2017/7/13

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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
5725.00	Е	Peak	43.92	15.03	58.95	68.3	-9.35
5727.44	S	Peak	44.73	15.03	59.76	68.3	- 8.54

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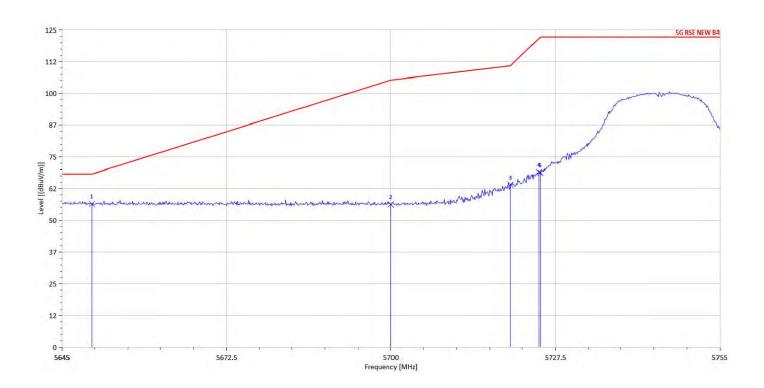


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Н 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
5650.00	S	Peak	41.52	14.86	56.38	68.23	-11.85
5700.00	S	Peak	41.23	14.97	56.20	105.23	-49.03
5720.00	S	Peak	49.01	15.02	64.02	110.83	-46.81
5724.75	S	Peak	53.92	15.03	68.95	121.66	-52.71
5725.00	E	Peak	53.75	15.03	68.77	122.23	-53.46

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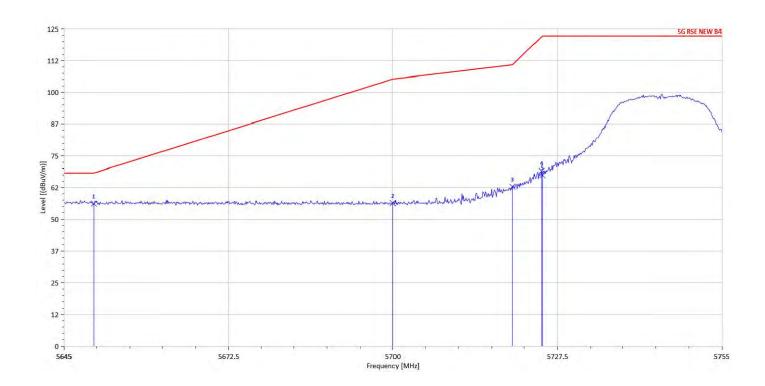


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Н 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	41.23	14.86	56.09	68.23	-12.14
5700.00	S	Peak	41.35	14.97	56.32	105.23	-48.91
5720.00	S	Peak	47.82	15.02	62.84	110.83	-47.99
5724.86	S	Peak	54.00	15.03	69.03	121.9105	-52.88
5725.00	Е	Peak	52.39	15.03	67.42	122.23	-54.81

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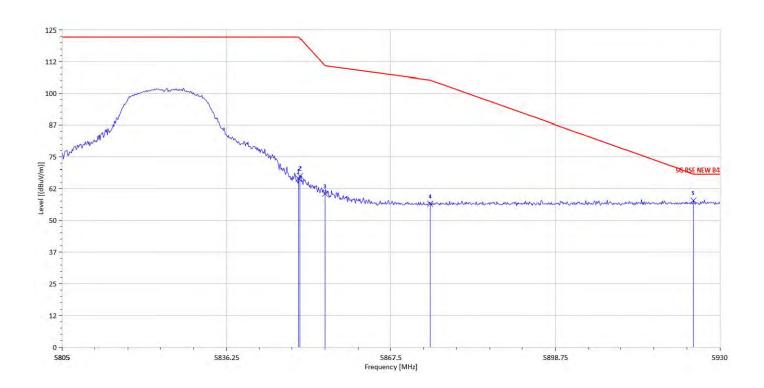


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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	E	Peak	51.11	15.33	66.44	122.23	-55.79
5850.25	S	Peak	52.22	15.33	67.54	121.66	-54.12
5855.00	S	Peak	45.11	15.34	60.45	110.83	-50.38
5875.00	S	Peak	41.08	15.39	56.47	105.23	-48.76
5925.00	S	Peak	42.28	15.52	57.80	68.23	-10.43

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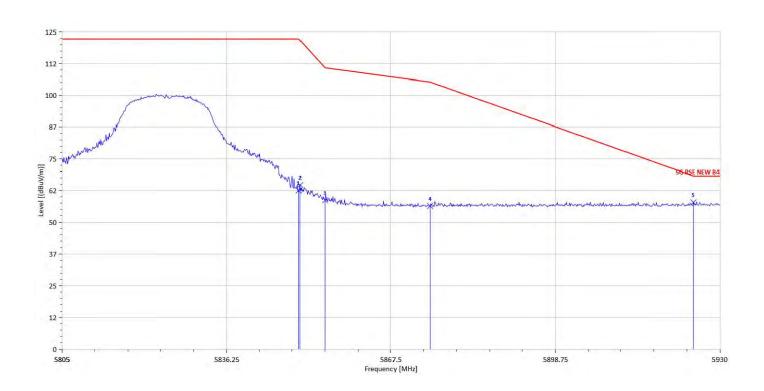


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Operation Mode: 802.11a Test Date: 2017/7/14

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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
5850.00	E	Peak	47.19	15.33	62.51	122.23	-59.72
5850.25	S	Peak	49.38	15.33	64.71	121.66	-56.95
5855.00	S	Peak	43.33	15.34	58.67	110.83	-52.16
5875.00	S	Peak	40.99	15.39	56.37	105.23	-48.86
5925.00	S	Peak	42.29	15.52	57.81	68.23	-10.42

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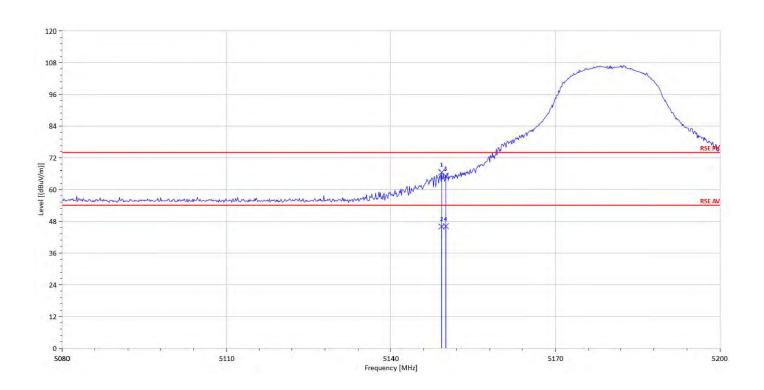
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802.11n20 HT mode

Operation Mode: 802.11n20 Test Date: 2017/7/14

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: 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
5149.24	S	Peak	52.24	14.31	66.56	74	-7.44
5149.24	S	Average	31.76	14.31	46.07	54	-7.93
5150.00	E	Peak	50.83	14.32	65.14	74	-8.86
5150.00	E	Average	31.86	14.32	46.18	54	- 7.82

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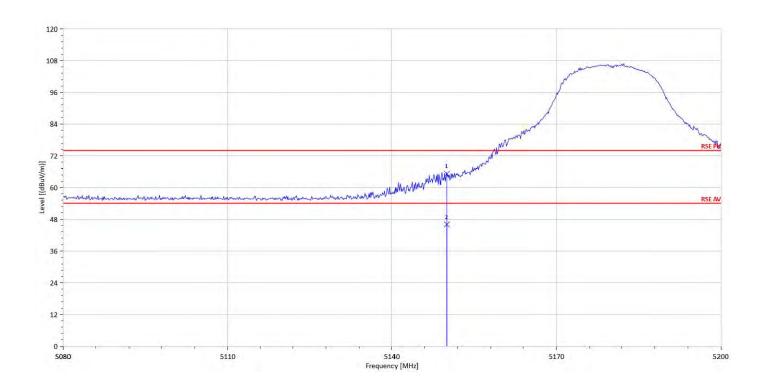


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Н 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
5150.00	E	Peak	50.96	14.32	65.28	74	-8.72
5150.00	E	Average	31.83	14.32	46.15	54	-7.86

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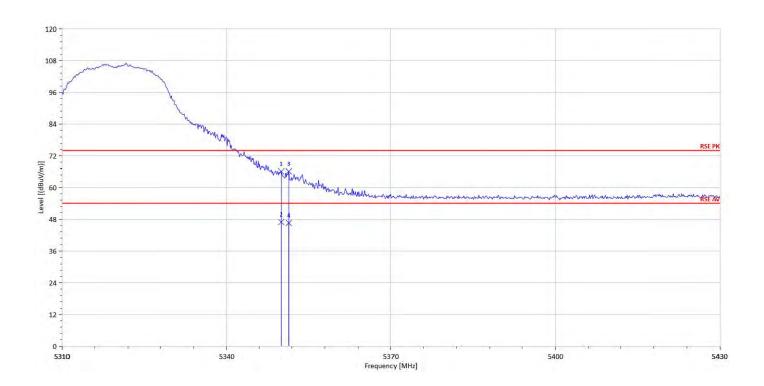


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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	51.69	14.44	66.13	74	-7.87
5350.00	E	Average	32.59	14.44	47.03	54	-6.97
5351.40	S	Peak	51.72	14.44	66.16	74	-7.84
5351.40	S	Average	32.26	14.44	46.70	54	-7.30

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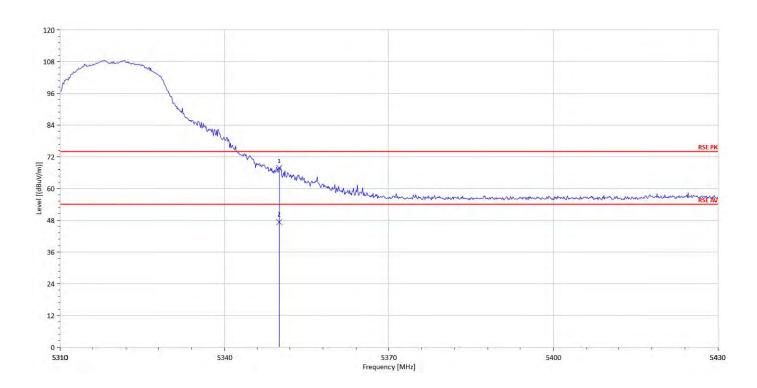


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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
5350.00	E	Peak	53.27	14.44	67.71	74	-6.29
5350.00	Е	Average	32.93	14.44	47.37	54	-6.63

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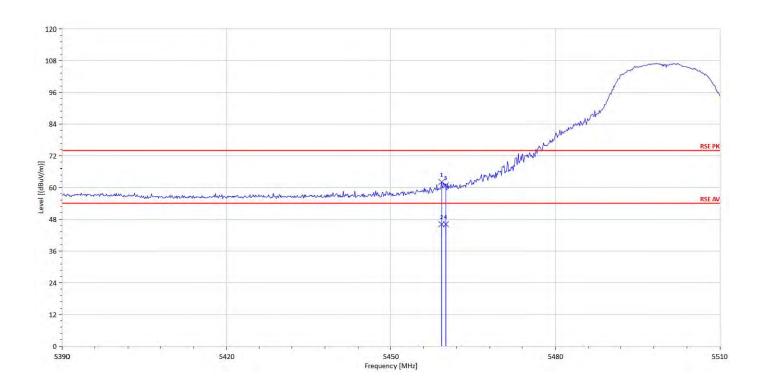


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Н 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
5459.24	S	Peak	47.64	14.51	62.14	74	-11.86
5459.24	S	Average	31.68	14.51	46.19	54	-7.81
5460.00	E	Peak	46.35	14.51	60.85	74	-13.15
5460.00	E	Average	31.69	14.51	46.20	54	-7.80

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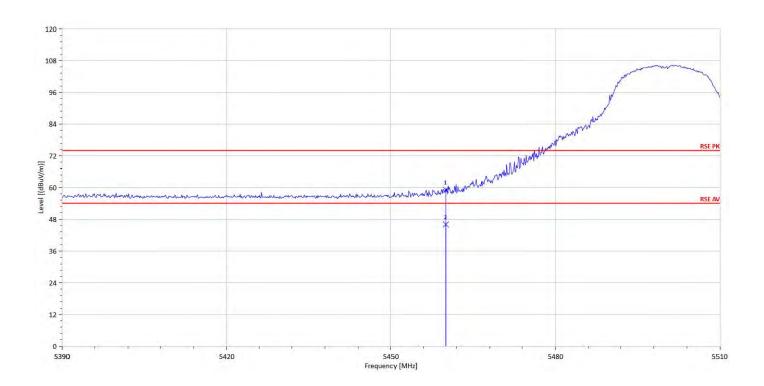


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: **BE CH Low** Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Η 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
5460.00	E	Peak	44.68	14.51	59.19	74	-14.81
5460.00	E	Average	31.62	14.51	46.13	54	-7.87

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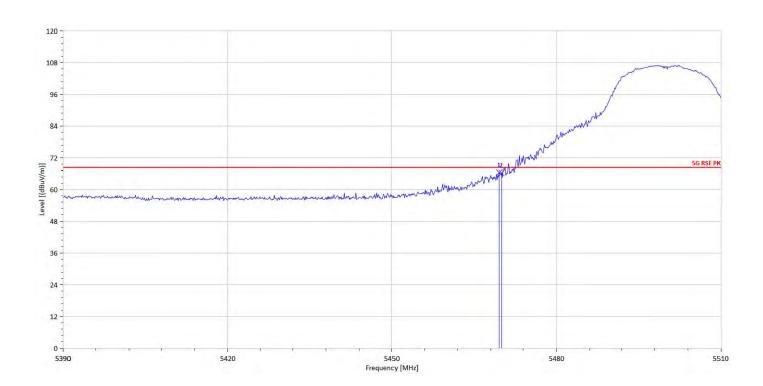


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: Η 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
5469.56	S	Peak	51.93	14.51	66.44	68.3	-1.86
5470.00	E	Peak	51.76	14.51	66.27	68.3	-2.03

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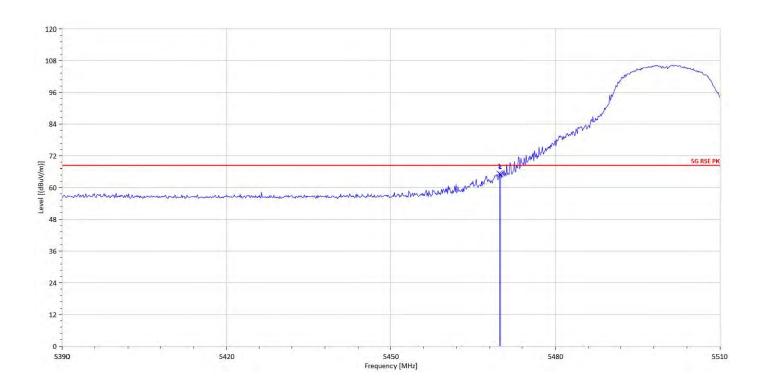


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH Low RSE Test Engineer: Ashton EUT Pol.: Η 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
5469.80	S	Peak	50.85	14.51	65.36	68.3	-2.94
5470.00	E	Peak	50.54	14.51	65.06	68.3	-3.24

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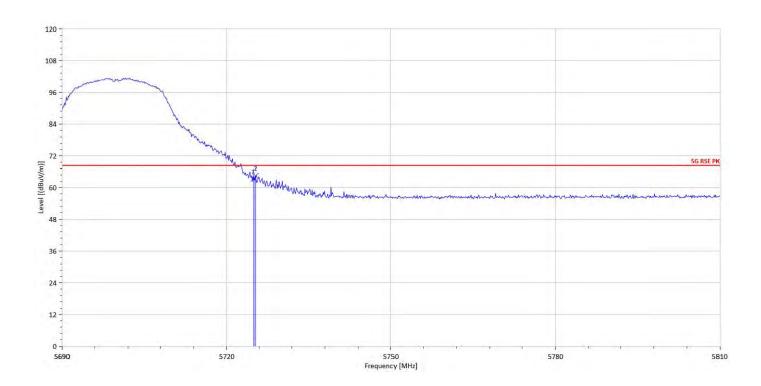


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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
5725.00	E	Peak	48.39	15.03	63.42	68.3	-4.88
5725.28	S	Peak	49.40	15.03	64.43	68.3	-3.87

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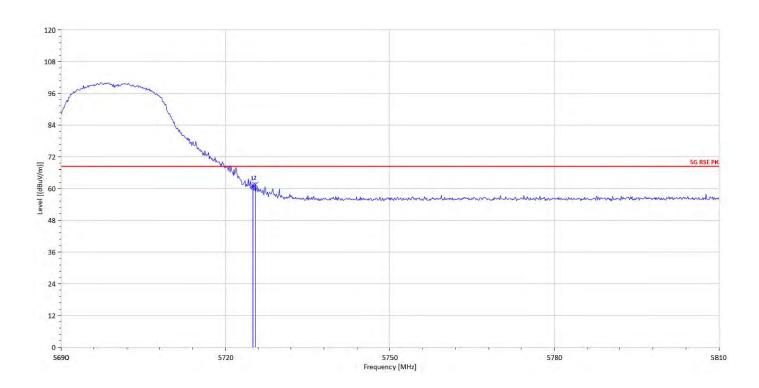


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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
5725.00	Е	Peak	46.25	15.03	61.27	68.3	-7.03
5725.40	S	Peak	46.42	15.03	61.45	68.3	-6.85

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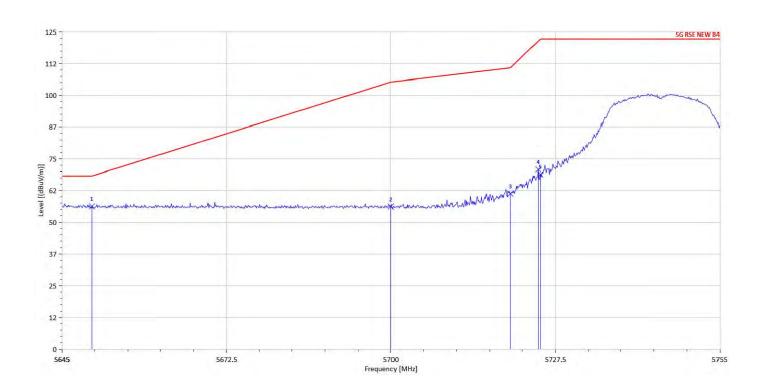


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Η 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
5650.00	S	Peak	41.34	14.86	56.20	68.23	-12.03
5700.00	S	Peak	41.16	14.97	56.13	105.23	-49.10
5720.00	S	Peak	46.24	15.02	61.26	110.83	-49.57
5724.64	S	Peak	55.80	15.03	70.83	121.4095	-50.58
5725.00	Ε	Peak	53.79	15.03	68.82	122.23	-53.41

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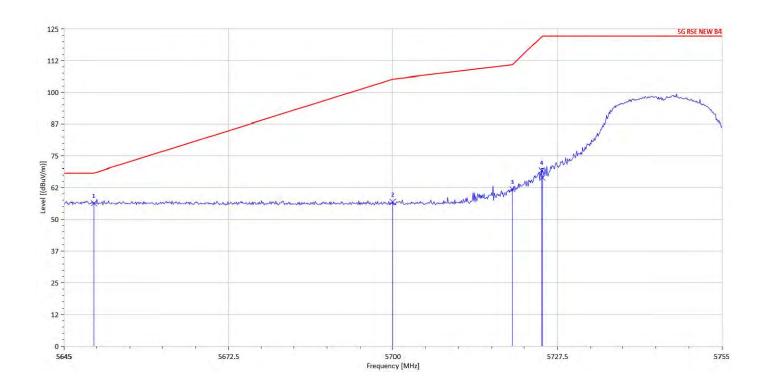


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Η 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	41.42	14.86	56.28	68.23	-11.95
5700.00	S	Peak	41.84	14.97	56.81	105.23	-48.42
5720.00	S	Peak	46.86	15.02	61.88	110.83	-48.95
5724.86	S	Peak	54.18	15.03	69.21	121.9105	-52.70
5725.00	Ε	Peak	51.39	15.03	66.41	122.23	-55.82

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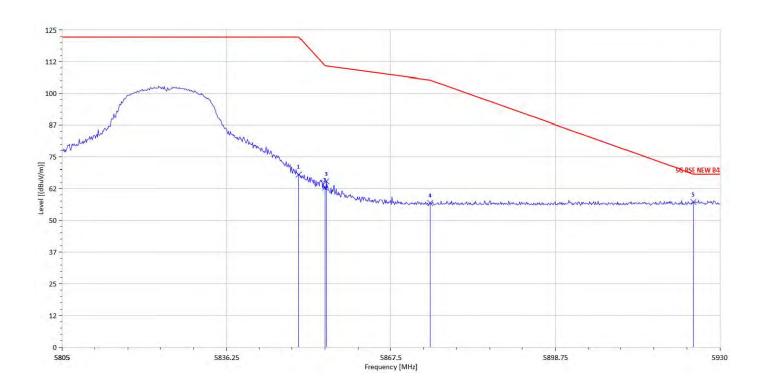


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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	E	Peak	52.73	15.33	68.05	122.23	-54.18
5855.00	S	Peak	47.56	15.34	62.90	110.83	-47.93
5855.25	S	Peak	50.09	15.34	65.42	110.76	-45.34
5875.00	S	Peak	41.37	15.39	56.76	105.23	-48.47
5925.00	S	Peak	41.65	15.52	57.18	68.23	-11.05

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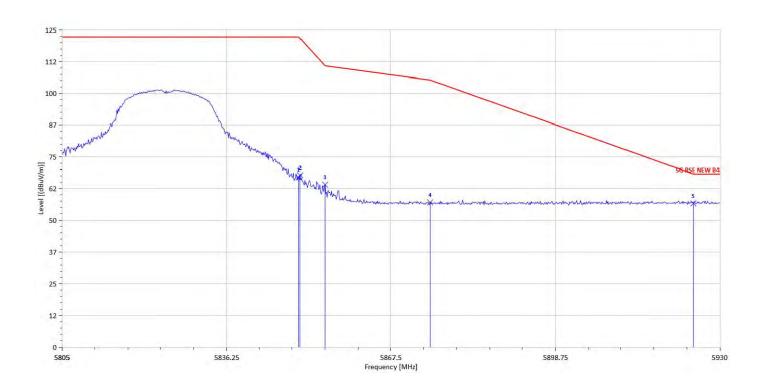


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Operation Mode: 802.11n20 Test Date: 2017/7/14

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

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Η 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
5850.00	E	Peak	51.62	15.33	66.95	122.23	-55.28
5850.25	S	Peak	52.47	15.33	67.80	121.66	-53.86
5855.00	S	Peak	48.71	15.34	64.04	110.83	-46.79
5875.00	S	Peak	41.62	15.39	57.01	105.23	-48.22
5925.00	S	Peak	41.06	15.52	56.58	68.23	-11.65

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 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

No non-compliance noted:

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

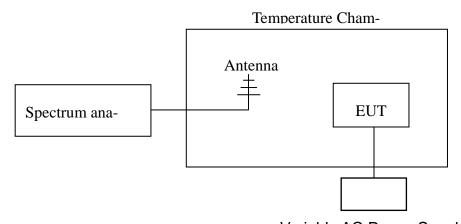
Standard Applicable 13.1

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



Variable AC Power Supply

13.4 Measurement Equipment Used

	Conducted Emission Test Site										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.						
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018						
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017						
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/12/2016	12/11/2017						
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017						
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018						
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018						

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Measurement Result

Operation Mode	802.11 a	Test Date	2017.07.18
Temperature	:23 ℃	Test By	Enzo
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		36	5180	5,179.99878	0.00000024
		44	5220	5,219.90899	0.00001743
		48	5240	·	0.00001444
		52	5260	5,259.95962	0.00001743 0.00001743 0.00001444 0.00000184 0.000001375 0.00000228 0.00000731 0.00000136 0.00001705 0.000001705 0.00000427 0.000001926 0.000001826 0.000001826 0.00000187
		60 5300 5,299.	5,299.99024	0.00000184	
	13.2V	64	5320	5,319.92685	0.00001375
		100	5500	5,499.98747	95922 0.00000731 93525 0.00001136
		116	5580	5,579.95922	
		140	5700	5,699.93525	0.00001136
		149	5745	5,744.90207	0.00001705
		157	5785	5,784.97530	0.00000427
		165	5825	5,824.97172	0.00000485
-40 ℃		36	5180	5,179.90025	0.00001926
		44	5220	5,219.90466	0.00001826
		48	5240	5,239.98531	0.00000280
		52	5260	5,259.94390	(MHz) 8 0.0000024 9 0.00001743 3 0.00001444 2 0.00000184 5 0.00001375 7 0.00000228 2 0.00000731 5 0.0000136 7 0.00001705 0 0.00001705 0 0.00001826 1 0.00001826 1 0.00001826 1 0.00001826 1 0.000001826
		60	5300	5,299.97041	0.00000558
	10.8V	64	5320	5,319.96637	0.00000632
		100	5500	5,499.94548	0.00000991
		116	5580	5,579.92384	0.00001365
		140	5700	5,699.96500	0.00000614
		149	5745	5,744.98770	0.00000214
		157	5785	5,784.92771	0.00001250
		165	5825	5,824.90413	0.00001646

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		36	5180	5,179.92355	0.00001476
		44	5220	5,219.95822	0.00000800
		48	5240	5,239.92093	0.00001509
		52	5260	5,259.98346	0.00000314
		60	5300	5,299.92698	0.00001378
25 ℃	12V	64	5320	5,319.97745	0.00000424
		100	5500	5,499.93471	0.00001187
		116	5580	5,579.99756	0.00000044
		140	5700	5,699.92290	0.00001353
		149	5745	5,744.91574	0.00001467
		157	5785	5,784.95152	0.00000838
		165	5825	5,824.90124	0.00001695
		36	5180	5,179.94050	0.00001149
		44	5220	5,219.95118	0.00000935
		48	5240	5,239.96648	0.00000640
		52	5260	5,259.93553	0.00001226
		60	5300	5,299.94333	0.00001069
		64	5320	5,319.98679	0.00000248
	13.2V	100	5500	5,499.93563	0.00001170
		116	5580	5,579.97509	0.00000446
		140	5700	5,699.98428	0.00000276
		149	5745	5,744.90439	0.00001664
		157	5785	5,784.93328	0.00001153
		165	5825	5,824.95237	0.00000818
85 ℃		36	5180	5,179.94672	0.00001029
		44	5220	5,219.98704	0.00000248
		48	5240	5,239.99695	0.0000058
		52	5260	5,259.94711	0.00001006
		60	5300	5,299.93966	0.00001138
	10.8V	64	5320	5,319.99672	0.00000062
		100	5500	5,499.91882	0.00001476
		116	5580	5,579.91739	0.00001480
		140	5700	5,699.97035	0.00000520
		149	5745	5,744.99938	0.00000011
		157	5785	5,784.98774	0.00000212
		165	5825	5,824.91460	0.00001466

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Operation Mode	802.11 n_HT20	Test Date	2017.07.18
Temperature	:23 ℃	Test By	Enzo
Humidity	:62 %		_

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		38	5190	5,189.94820	0.00000998
		46	5230	5,229.91749	0.00001578
		54	5270	5,269.92147	0.00001490
		62	5310	5,309.92063	0.00001495
	13.2V	102	5510	5,509.95155	0.00000879
		110	5550	5,549.99087	0.00000165
		134	5670	5,669.95315	0.00000826
		151	5755	5,754.94274	0.00000995
-40 °C		159	5795	5,794.97165	0.00000489
		38	5190	5,189.97259	0.00000528
		46	5230	5,229.99652	0.00000067
		54	5270	5,269.99689	0.00000059
		62	5310	5,309.95063	0.00000930
	10.8V	102	5510	5,509.94135	0.00001064
		110	5550	5,549.91261	0.00001575
		134	5670	5,669.91214	0.00000879 0.00000165 0.00000826 0.00000995 0.00000489 0.00000528 0.00000067 0.00000059 0.00000930 0.00001575 0.00001550 0.00001525
		151	5755	5,754.91226	0.00001525
		159	5795	5,794.97168	0.00000489

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38 5190 5,189.91014 0.0000173 46 5230 5,229.99890 0.0000002 54 5270 5,269.93055 0.0000133 62 5310 5,309.99046 0.0000018 25 °C 12V 102 5510 5,509.94904 0.0000092 110 5550 5,549.91077 0.0000160 134 5670 5,669.97732 0.0000040 151 5755 5,754.93540 0.0000112 159 5795 5,794.97821 0.0000033 138 5190 5,189.90098 0.0000190 146 5230 5,229.98025 0.0000033 154 5270 5,269.94063 0.0000112	21 18 80 25 08 00 23
54 5270 5,269.93055 0.0000137 62 5310 5,309.99046 0.0000018 25 °C 12V 102 5510 5,509.94904 0.0000092 110 5550 5,549.91077 0.0000160 134 5670 5,669.97732 0.0000040 151 5755 5,754.93540 0.0000112 159 5795 5,794.97821 0.0000037 38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	18 80 25 08 00 23
62 5310 5,309.99046 0.0000018 25 °C 12V 102 5510 5,509.94904 0.0000092 110 5550 5,549.91077 0.0000160 134 5670 5,669.97732 0.0000040 151 5755 5,754.93540 0.0000112 159 5795 5,794.97821 0.0000037 38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	80 25 08 00 23
25 °C 12V 102 5510 5,509.94904 0.0000092 110 5550 5,549.91077 0.0000160 134 5670 5,669.97732 0.0000040 151 5755 5,754.93540 0.0000112 159 5795 5,794.97821 0.0000037 38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	25 08 00 23
110 5550 5,549.91077 0.0000160 134 5670 5,669.97732 0.0000040 151 5755 5,754.93540 0.0000112 159 5795 5,794.97821 0.0000037 38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	08 00 23
134 5670 5,669.97732 0.0000040 151 5755 5,754.93540 0.0000112 159 5795 5,794.97821 0.0000037 38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	00 23
134 5670 5,669.97732 0.0000040 151 5755 5,754.93540 0.0000112 159 5795 5,794.97821 0.0000037 38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	00 23
151 5755 5,754.93540 0.0000112 159 5795 5,794.97821 0.0000037 38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	23
159 5795 5,794.97821 0.0000037 38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	
38 5190 5,189.90098 0.0000190 46 5230 5,229.98025 0.0000037 54 5270 5,269.94063 0.0000112	16
54 5270 5,269.94063 0.0000112	
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	27
62 5310 5,309.94123 0.0000110	07
13.2V 102 5510 5,509.97007 0.0000054	43
110 5550 5,549.98681 0.0000023	38
134 5670 5,669.96304 0.0000065	52
151 5755 5,754.90345 0.0000167	78
159 5795 5,794.95881 0.000007 ²	11
85 °C 38 5190 5,189.91085 0.000017	18
46 5230 5,229.94563 0.0000104	40
54 5270 5,269.90483 0.0000180	06
62 5310 5,309.99847 0.0000002	29
10.8V 102 5510 5,509.99418 0.0000010	06
110 5550 5,549.96259 0.0000067	74
134 5670 5,669.91543 0.0000149	
151 5755 5,754.93427 0.0000114	42
159 5795 5,794.99846 0.0000002	

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