

10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-Fixed point-to-point Access Point

	√ Mobile and portable client device	11dBm/ MHz
U-NII-2A	√ ✕	

5725~5850 MHz	30dBm / 500 kHz
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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.

Note: 5.15-5.25G

Antenna1 Gain: 0.39 dBi

Antenna2 Gain: -2.63 dBi

Number Antenna: 2 pcs

Directional gain = gain of antenna element $10 \log (\# \text{ of TX antenna elements})$

Effective Legacy Gain (dBi) = 3.4 dBi

Limit: 11dBm

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10.2 Measurement Procedure

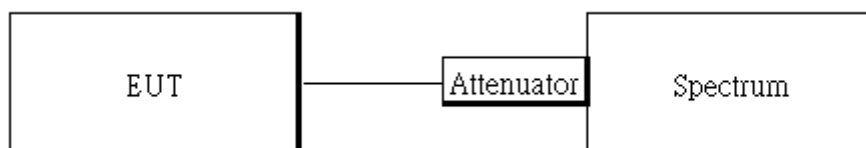
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, 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 \geq 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)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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

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

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	3.94	11	-7.06
5220	2.49	11	-8.51
5240	2.98	11	-8.02
5260	3.43	11	-7.57
5300	3.14	11	-7.86
5320	2.55	11	-8.45
5500	0.59	11	-10.41
5580	-0.18	11	-11.18
5700	0.80	11	-10.20
5745	8.55	30	-21.45
5785	10.22	30	-19.78
5825	9.53	30	-20.47

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	2.27	11	-8.73
5220	1.26	11	-9.74
5240	0.92	11	-10.08
5260	2.83	11	-8.17
5300	1.19	11	-9.81
5320	3.43	11	-7.57
5500	1.01	11	-9.99
5580	0.92	11	-10.08
5700	-2.20	11	-13.20
5745	8.52	30	-21.48
5785	8.95	30	-21.05
5825	8.61	30	-21.39

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POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-7.15	11	-18.15
5230	-5.62	11	-16.62
5270	-4.32	11	-15.32
5310	-5.16	11	-16.16
5510	-6.41	11	-17.41
5550	-5.66	11	-16.66
5670	-4.41	11	-15.41
5755	5.80	30	-24.20
5795	6.00	30	-24.00

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-8.81	11	-19.81
5290	-5.37	11	-16.37
5530	-7.63	11	-18.63
5610	-7.45	11	-18.45
5775	3.03	30	-26.97

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EIRP Power Density

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	3.94	3.40	7.34	10	-6.06
5220	2.49	3.40	5.89	10	-7.51
5240	2.98	3.40	6.38	10	-7.02

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	2.27	3.40	5.67	10	-7.73
5220	1.26	3.40	4.66	10	-8.74
5240	0.92	3.40	4.32	10	-9.08

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	-7.15	3.40	-3.75	10	-17.15
5220	-5.62	3.40	-2.22	10	-15.62

EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PPSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-8.81	3.40	-5.41	10	-18.81

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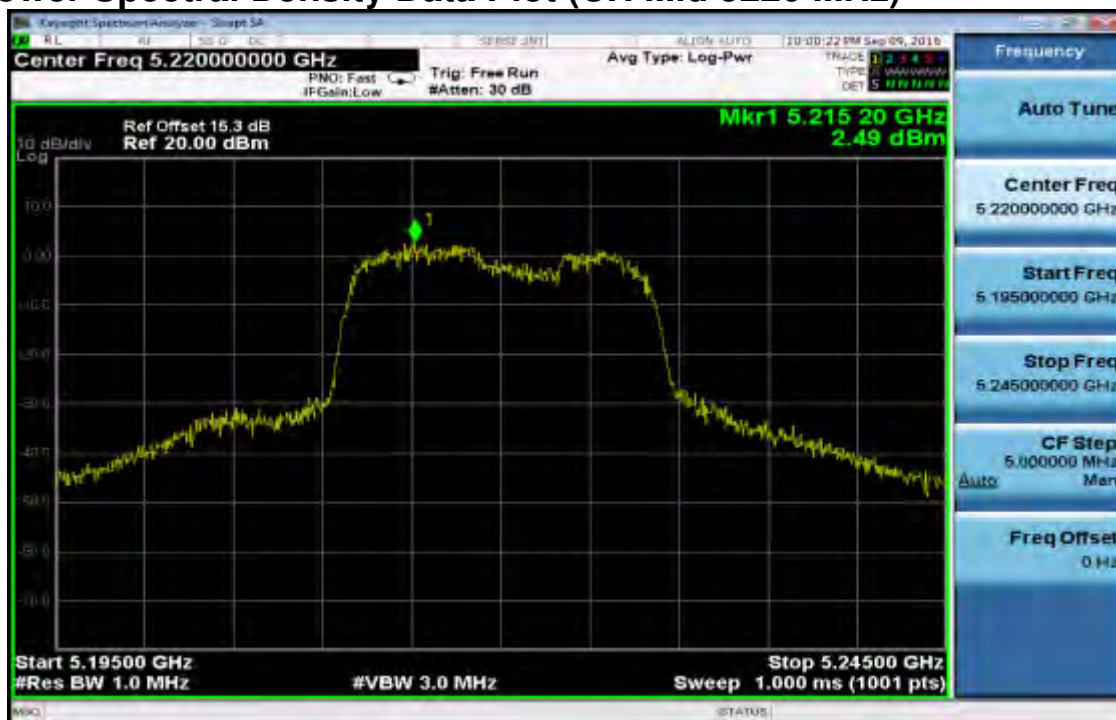
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802.11a 5150~5250 MHz

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



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



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



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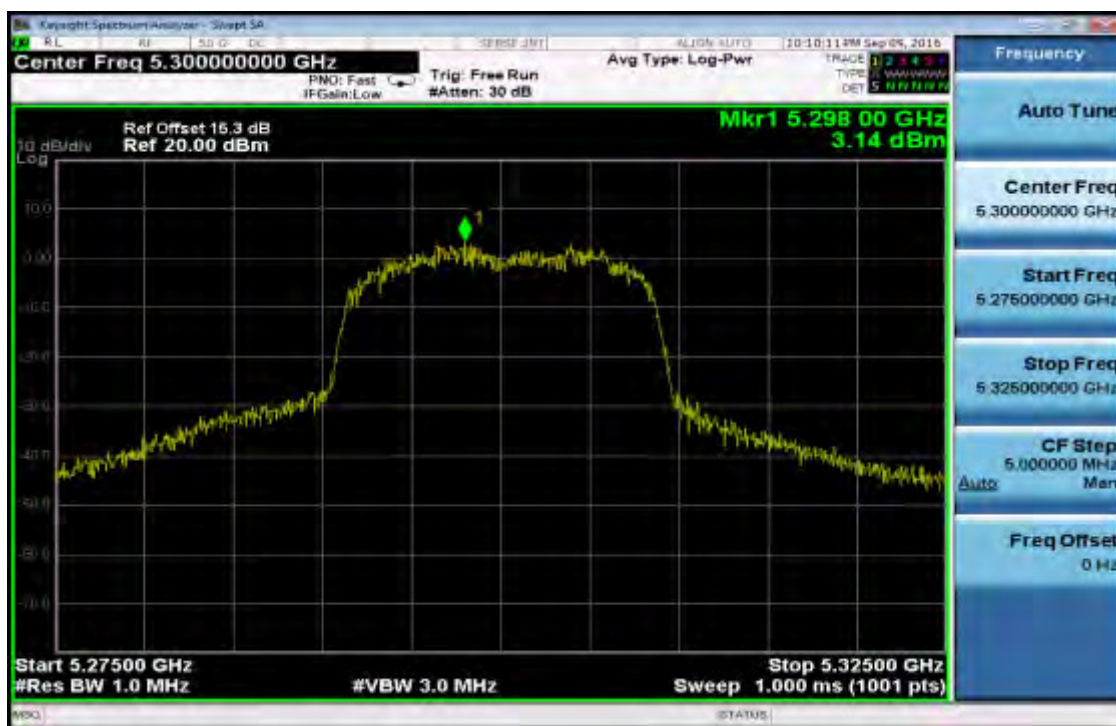
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802.11a 5250~5350 MHz

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



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



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



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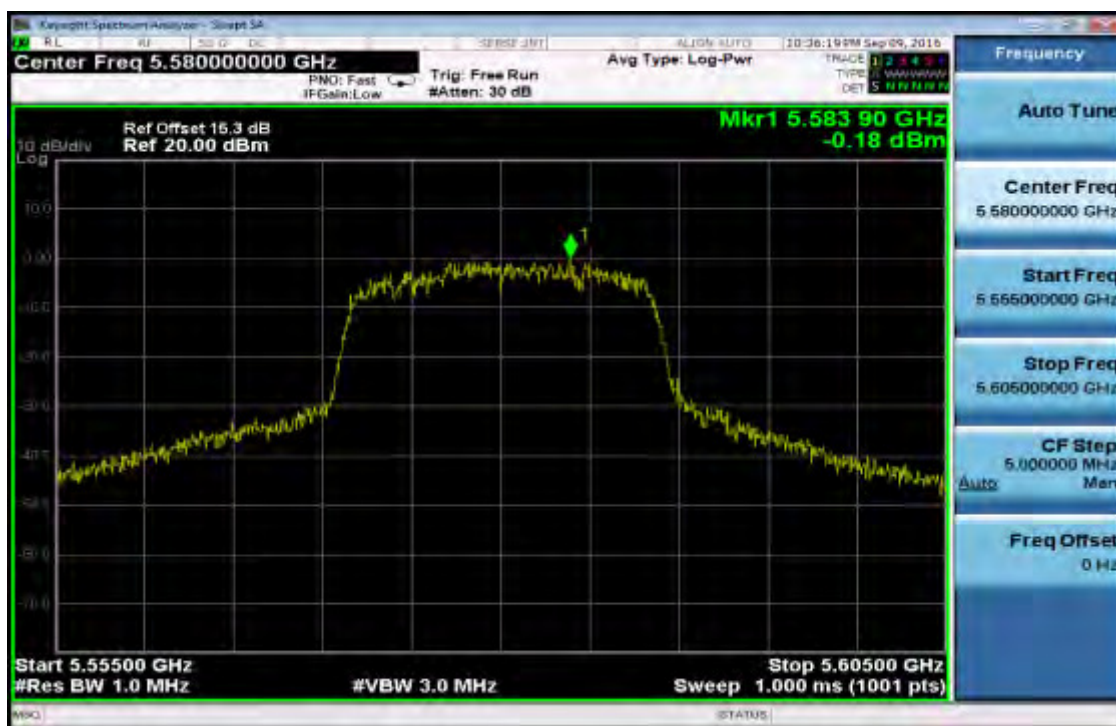
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802.11a 5470~5725 MHz

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



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



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



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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)



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



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Member of SGS Group

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)



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



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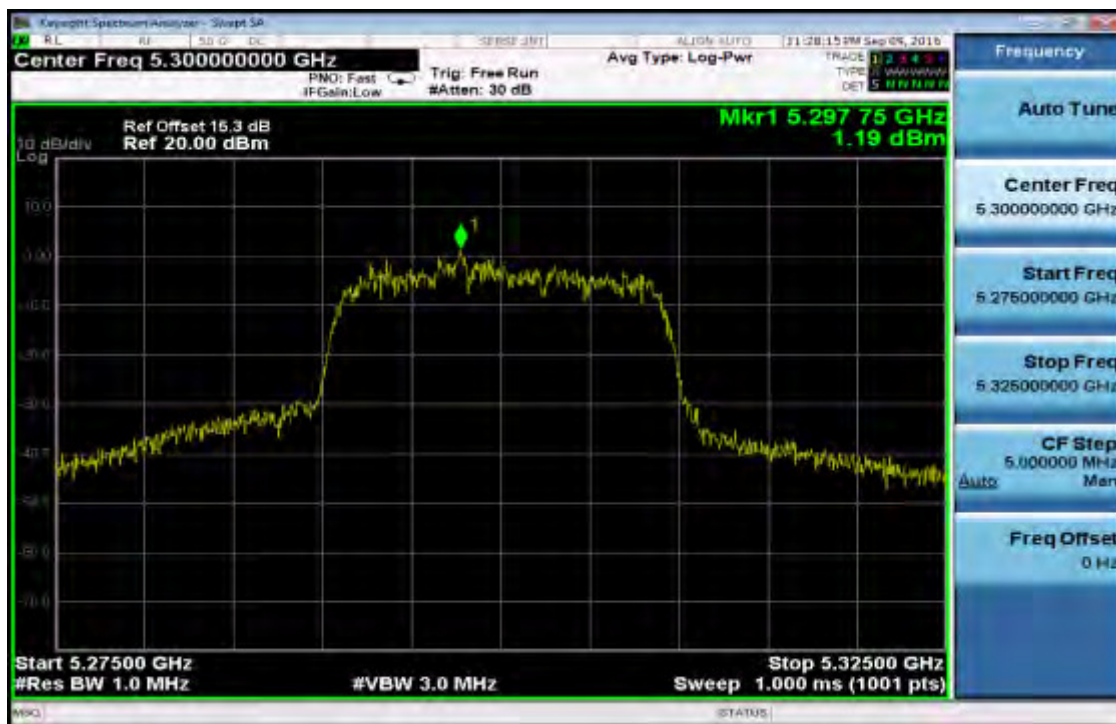
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802.11n HT20, 5250~5350 MHz

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



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



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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)



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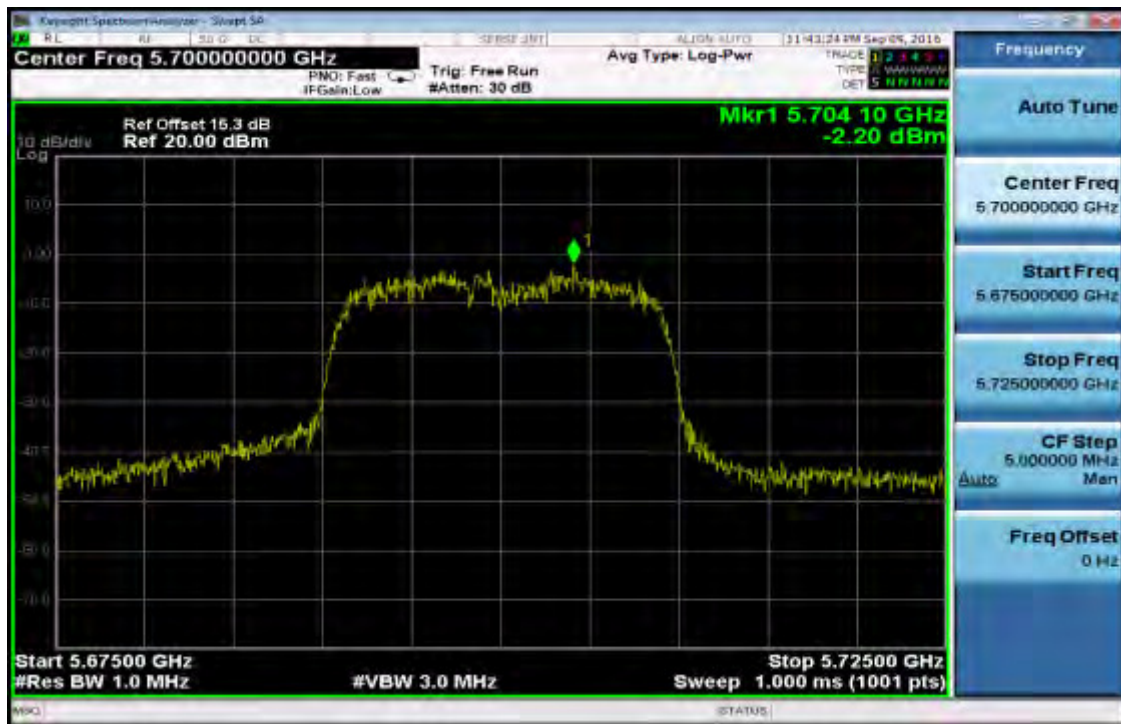
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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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)



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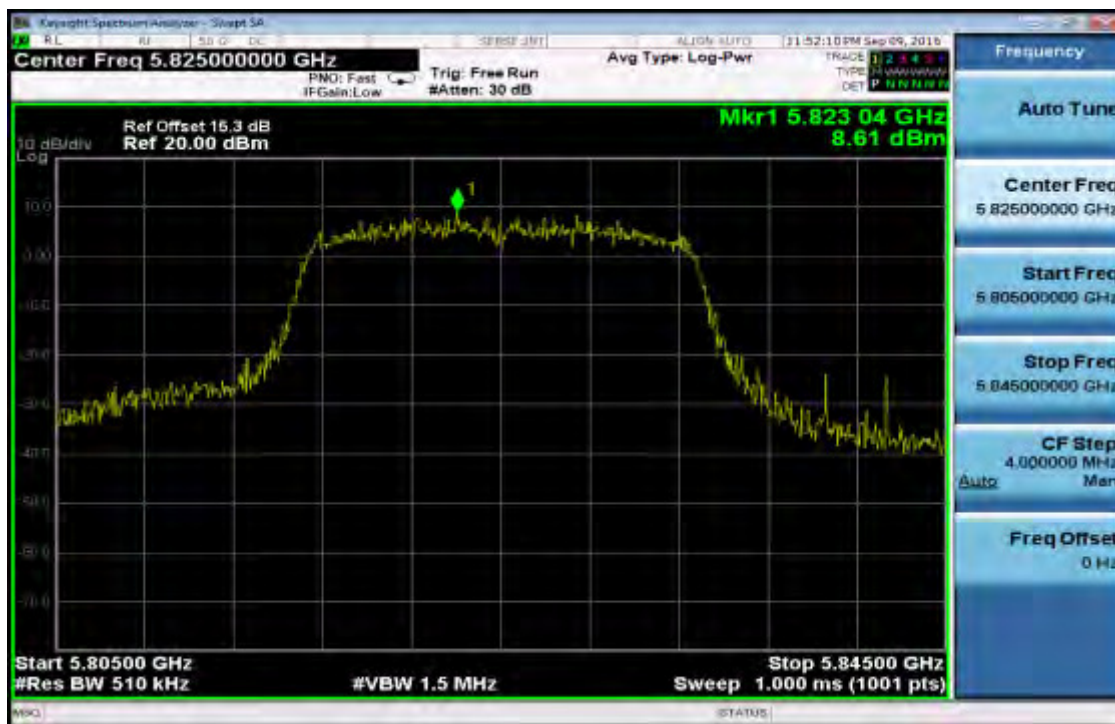
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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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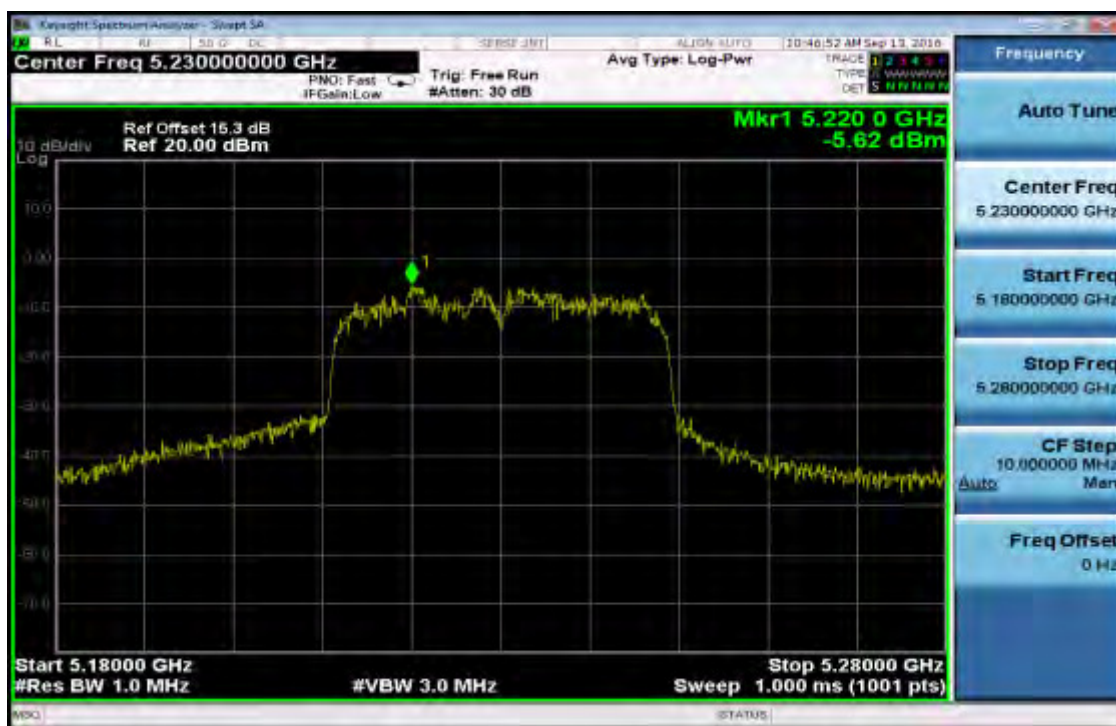
Member of SGS Group

802.11n HT40, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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802.11n HT40, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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802.11n HT40, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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802.11n HT40, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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802.11ac VHT80, 5150~5250 MHz

Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)



802.11ac VHT80, 5250~5350 MHz

Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)



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802.11ac VHT80, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



802.11ac VHT80, 5470~5725 MHz

Peak Power Spectral Density Data Plot (CH High 5610 MHz)



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802.11ac VHT80, 5725~5850 MHz

Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

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	LIMIT	
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)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
RSS-247 6.2.4 (2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
	PK: -17 (dBm/MHz)	PK: 78.2 (dBμV/m)
*1 beyond 75 MHz or more above of the bandedge. *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.		

$EIRP = (E \cdot d)^2 / 30$, 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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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 μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/18/2016	07/17/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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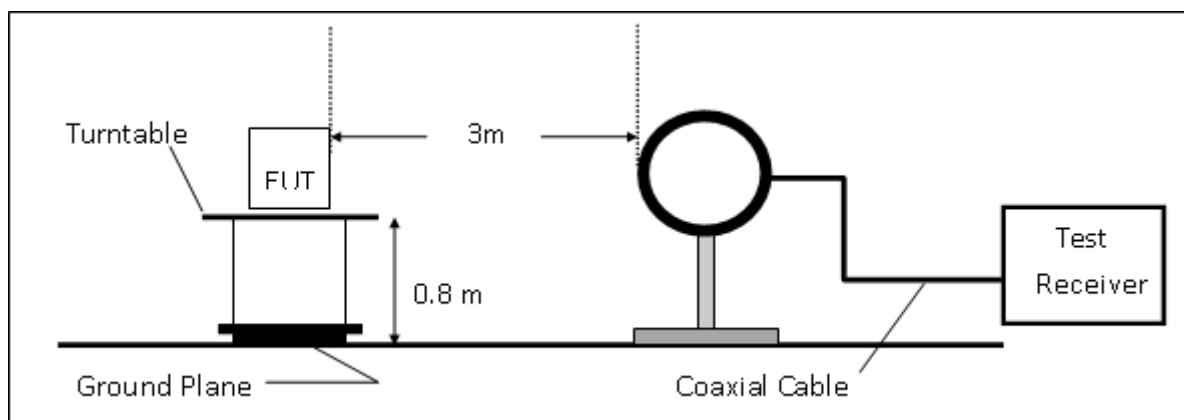
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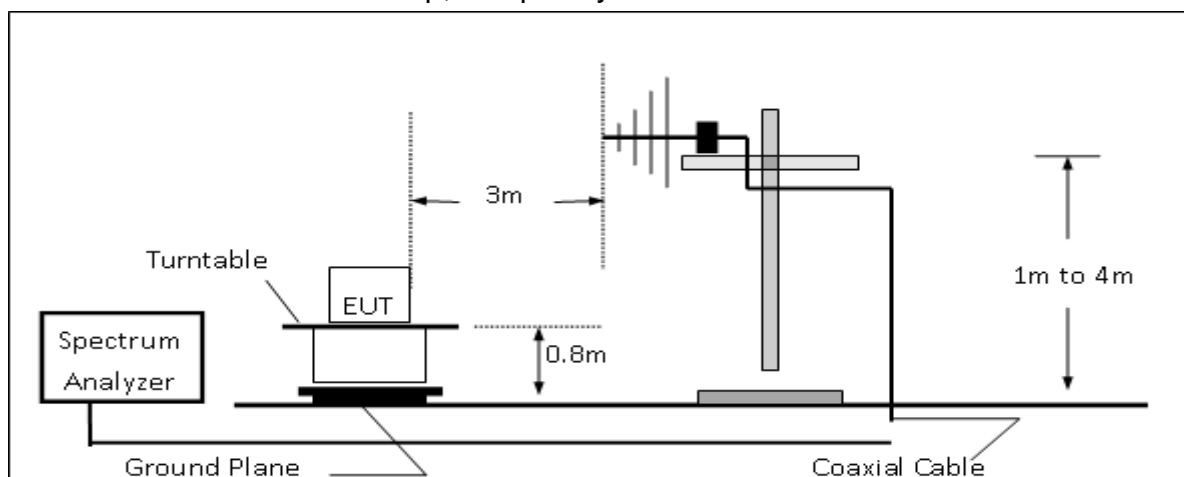
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11.3 Test SET-UP

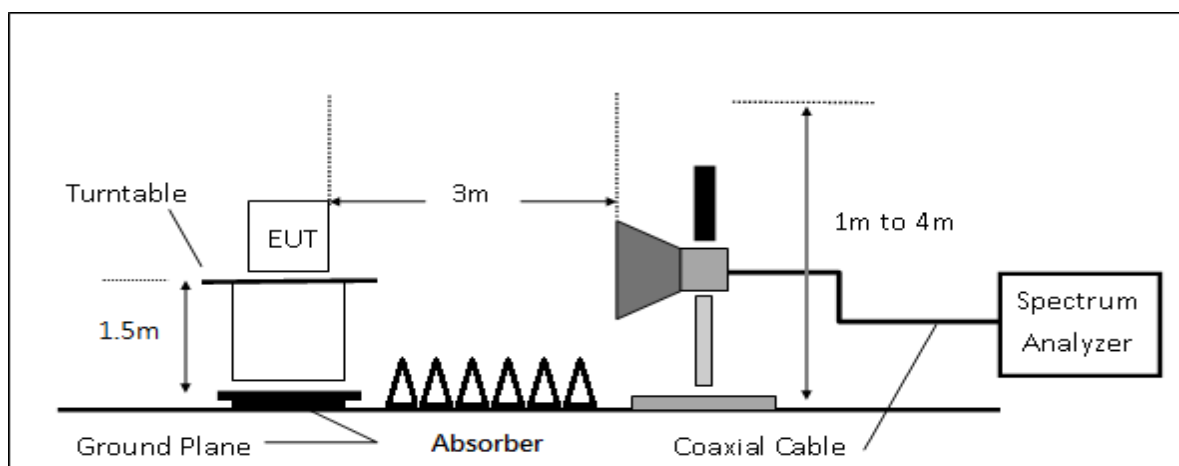
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

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

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

11.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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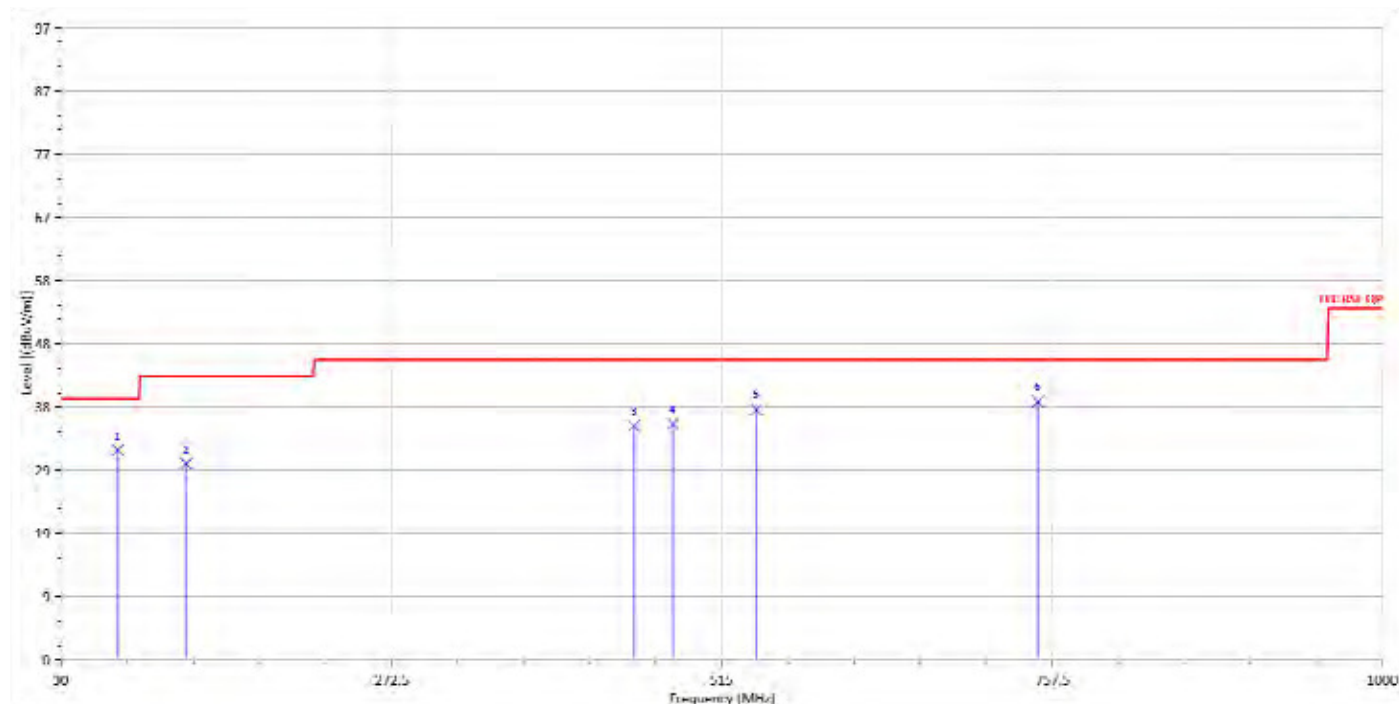
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2016/9/8
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
71.68	S	QP	53.81	-21.65	32.16	40	-7.84
122.15	S	Peak	45.83	-15.77	30.05	43.5	-13.45
450.98	S	Peak	44.60	-8.70	35.91	46	-10.09
479.11	S	Peak	43.97	-7.76	36.21	46	-9.79
540.22	S	Peak	45.59	-7.19	38.40	46	-7.60
746.83	S	Peak	43.86	-4.23	39.62	46	-6.38

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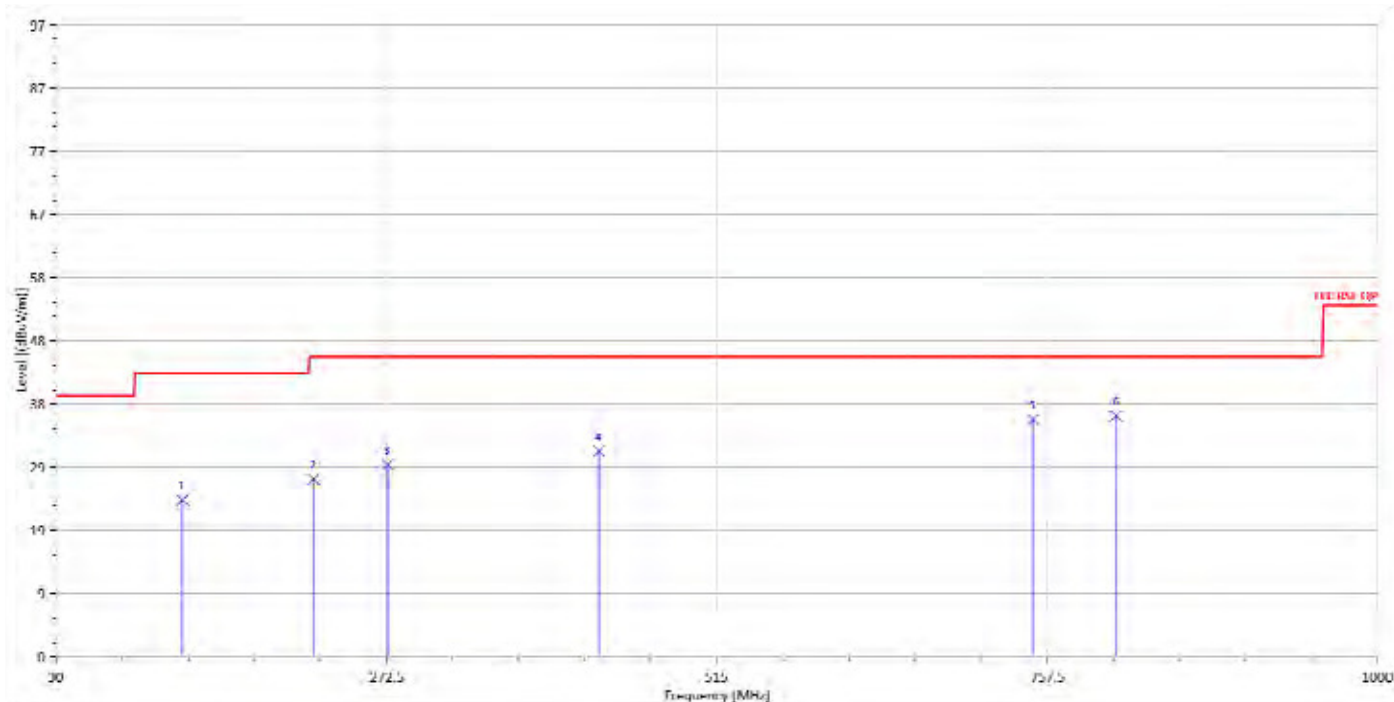
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Operation Mode : 802.11a Test Date : 2016/9/8
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
123.12	S	Peak	39.87	-15.78	24.09	43.5	-19.41
219.15	S	Peak	44.28	-17.11	27.17	46	-18.83
273.47	S	Peak	43.23	-13.82	29.41	46	-16.59
428.67	S	Peak	40.68	-9.13	31.54	46	-14.46
746.83	S	Peak	40.68	-4.23	36.45	46	-9.55
807.94	S	Peak	40.20	-3.20	36.99	46	-9.01

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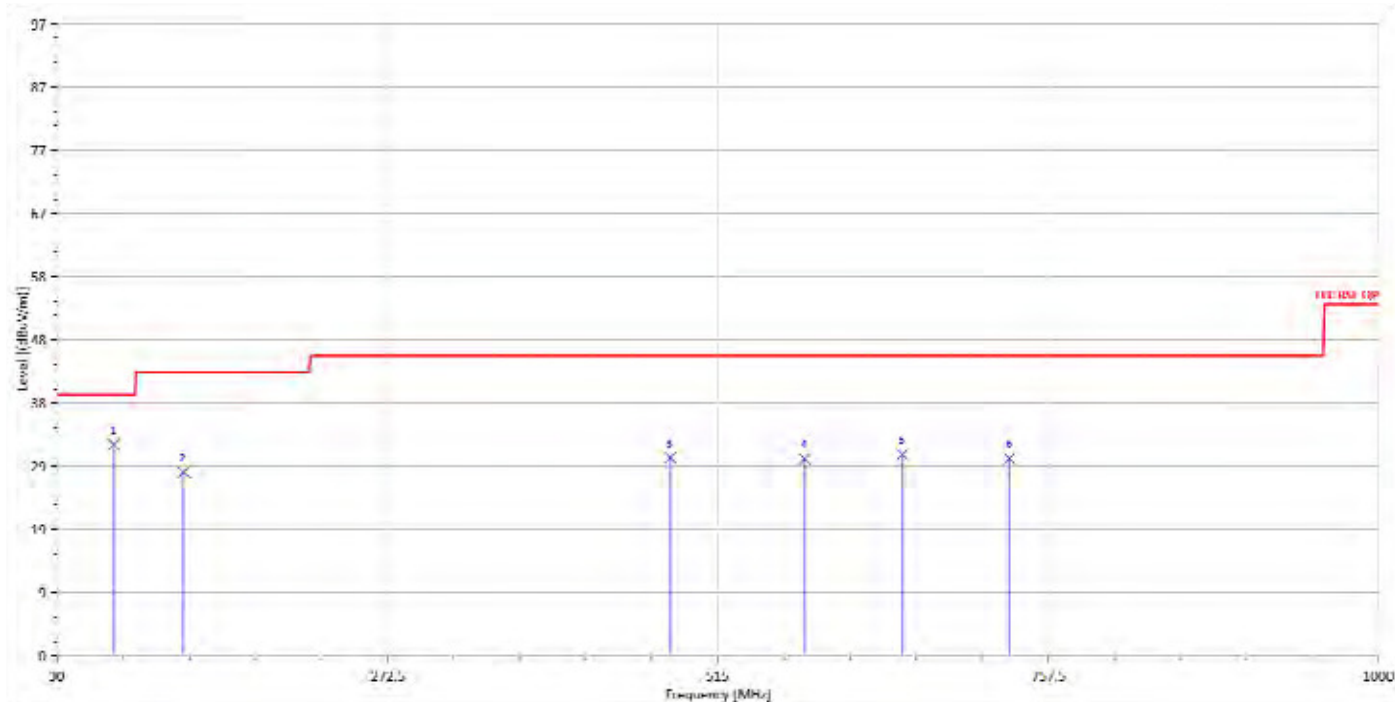
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802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2016/9/8
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.71	S	Peak	54.02	-21.65	32.37	40	-7.63
123.12	S	Peak	43.88	-15.78	28.11	43.5	-15.39
480.08	S	Peak	38.18	-7.81	30.37	46	-15.63
579.02	S	Peak	36.53	-6.38	30.15	46	-15.85
650.80	S	Peak	36.24	-5.40	30.84	46	-15.16
729.37	S	Peak	34.88	-4.64	30.24	46	-15.76

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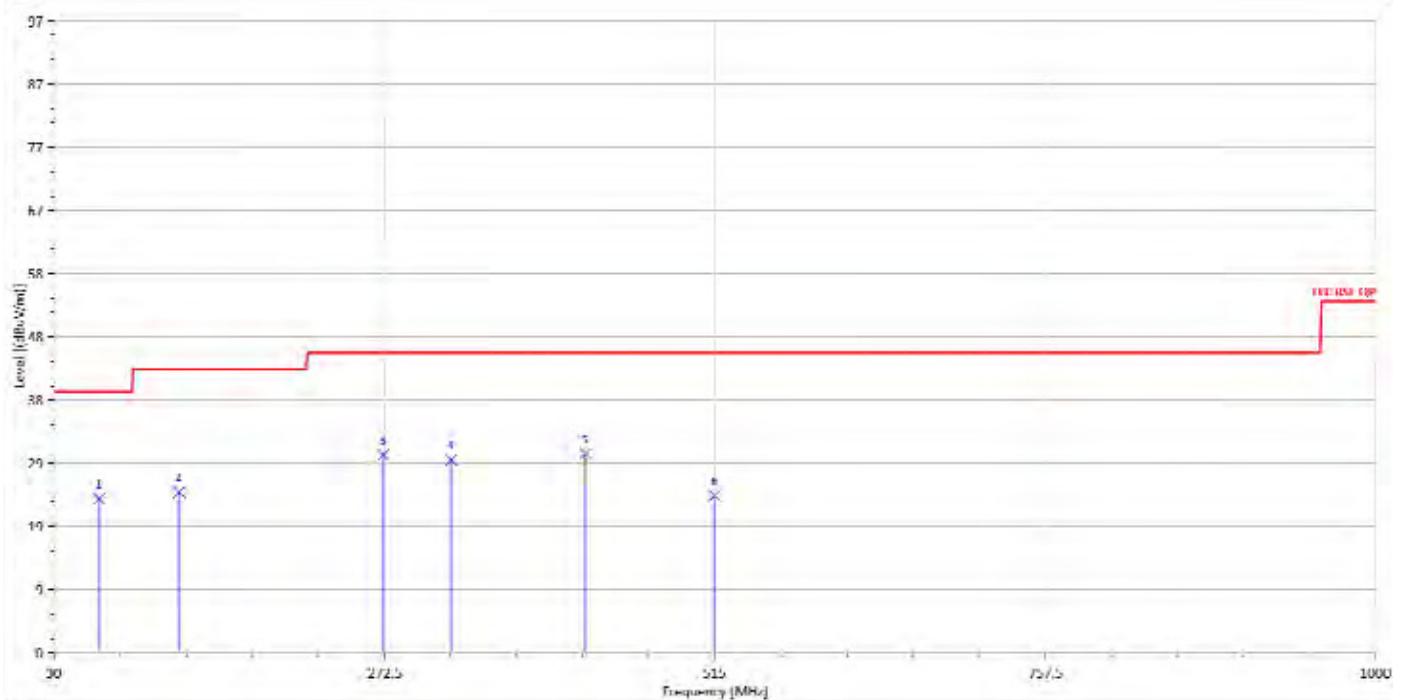
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Operation Mode : 802.11a Test Date : 2016/9/8
Fundamental Frequency : 5300 MHz Temp. / Humi. : 23.5 deg_C/56RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
62.98	S	Peak	46.21	-22.56	23.65	40	-16.35
122.15	S	Peak	40.42	-15.77	24.65	43.5	-18.85
271.53	S	Peak	44.22	-13.90	30.31	46	-15.69
321.97	S	Peak	41.72	-12.19	29.52	46	-16.48
419.94	S	Peak	39.62	-9.10	30.52	46	-15.48
515.00	S	Peak	31.72	-7.58	24.14	46	-21.86

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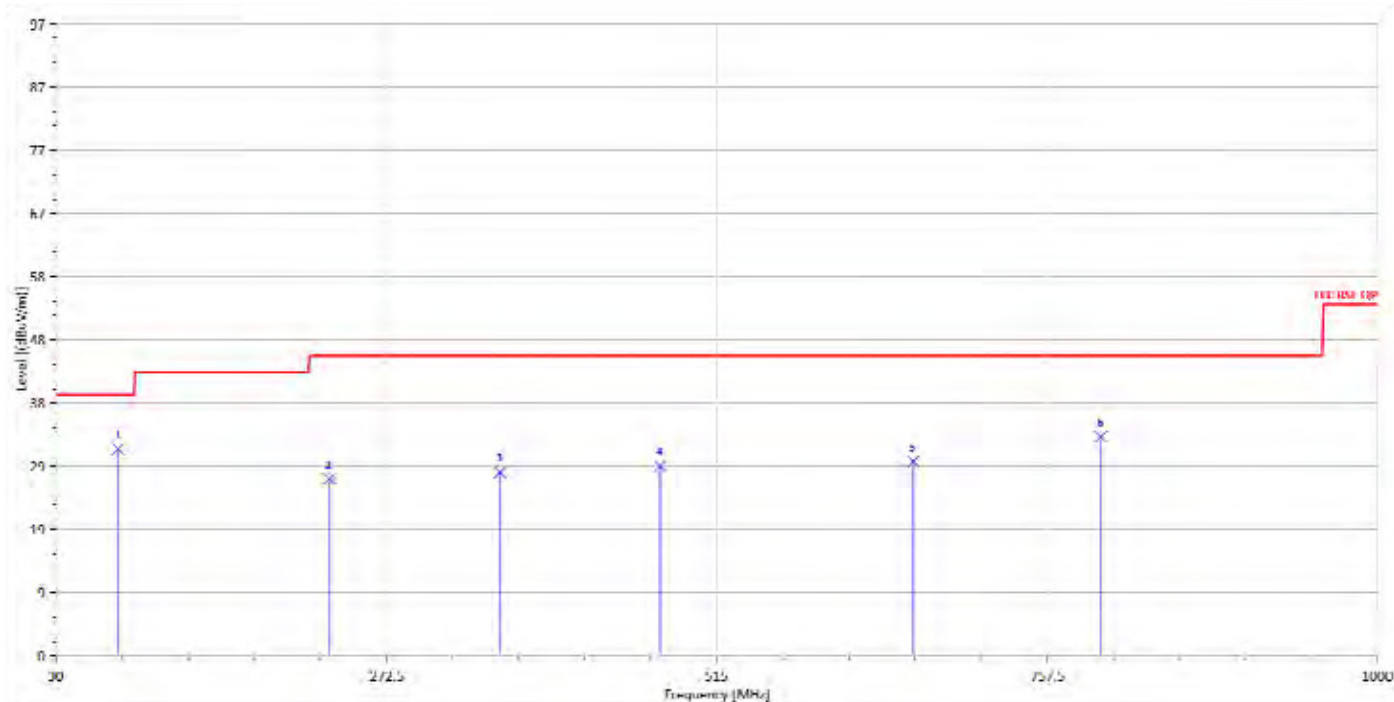
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802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/9/8
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
75.59	S	Peak	53.09	-21.38	31.71	40	-8.29
230.79	S	Peak	43.24	-16.17	27.08	46	-18.92
355.92	S	Peak	39.27	-11.21	28.06	46	-17.94
473.29	S	Peak	37.04	-7.99	29.04	46	-16.96
659.53	S	Peak	35.08	-5.30	29.78	46	-16.22
797.27	S	Peak	37.62	-4.01	33.61	46	-12.39

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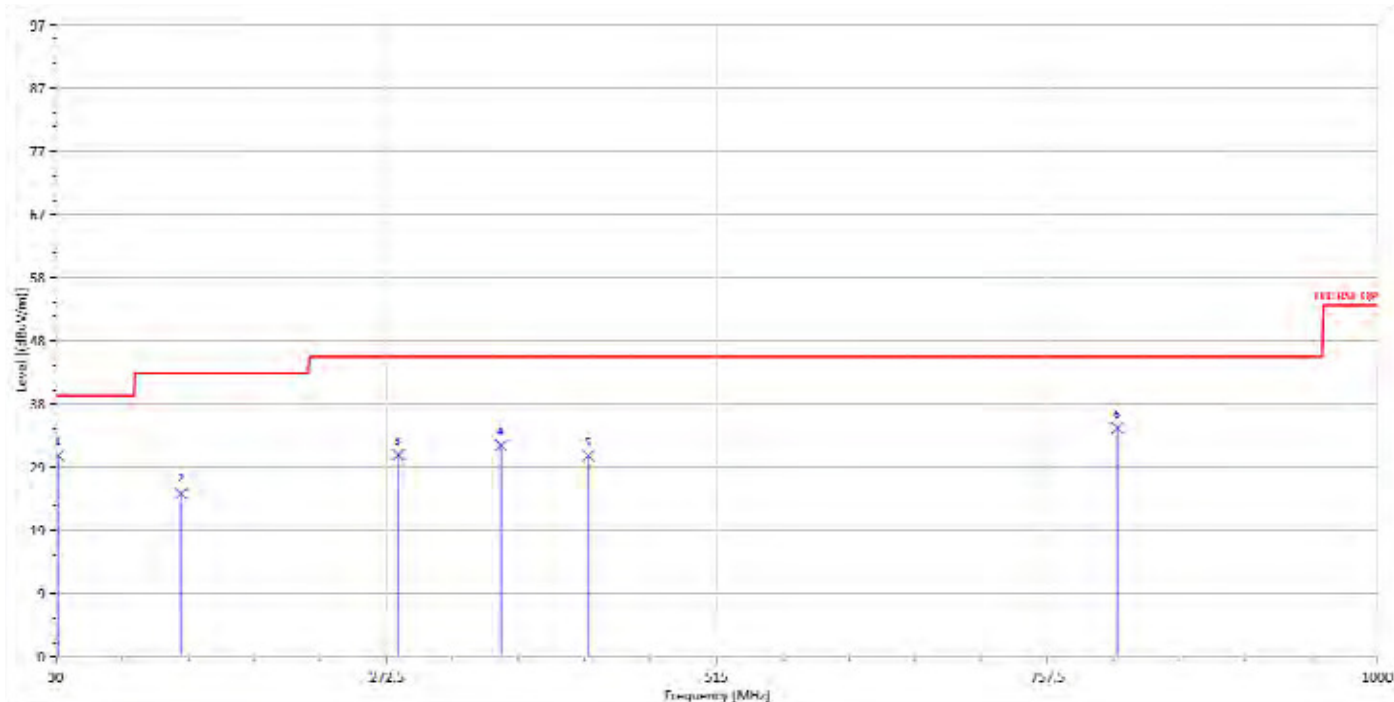
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Operation Mode : 802.11a Test Date : 2016/9/8
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	39.05	-8.22	30.83	40	-9.17
122.15	S	Peak	40.87	-15.77	25.09	43.5	-18.41
281.23	S	Peak	44.52	-13.59	30.94	46	-15.06
356.89	S	Peak	43.71	-11.27	32.44	46	-13.56
420.91	S	Peak	39.88	-9.06	30.82	46	-15.18
808.91	S	Peak	38.29	-3.19	35.10	46	-10.90

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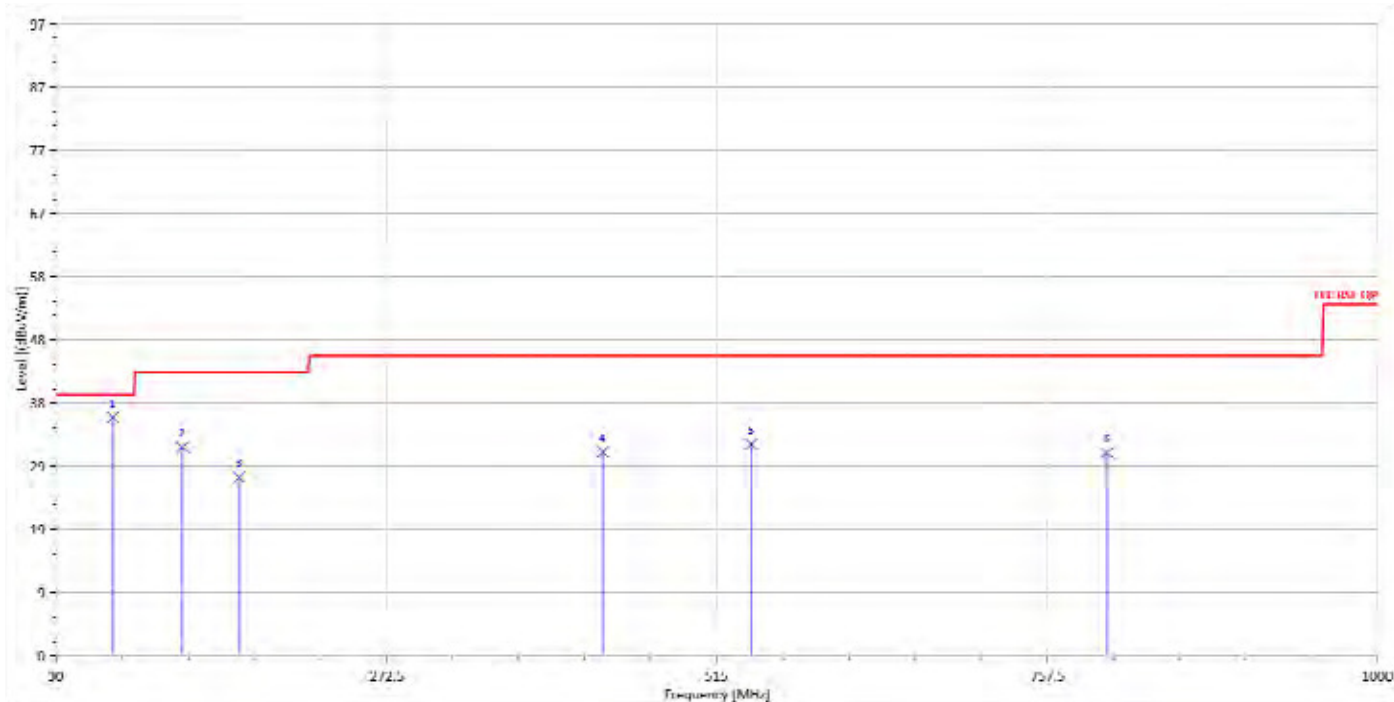
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802.11a, 5725~5850 MHz

Operation Mode : 802.11a Test Date : 2016/9/8
Fundamental Frequency : 5785 MHz Temp. / Humi. : 23.5 deg_C/56RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
71.71	S	Peak	58.26	-21.65	36.61	40	-3.39
123.12	S	Peak	47.78	-15.78	32.00	43.5	-11.50
164.83	S	Peak	45.07	-17.78	27.29	43.5	-16.21
431.58	S	Peak	40.61	-9.39	31.22	46	-14.78
540.22	S	Peak	39.64	-7.19	32.45	46	-13.55
802.12	S	Peak	34.59	-3.48	31.11	46	-14.89

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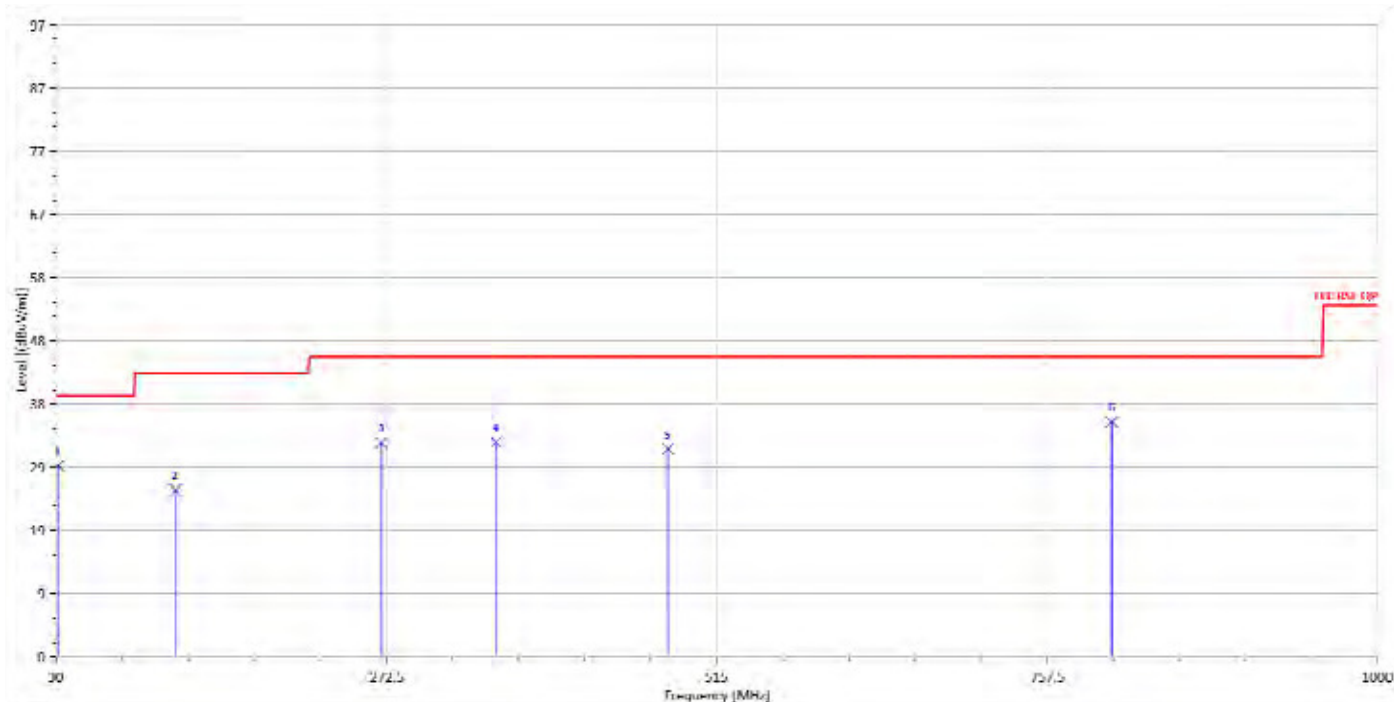
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Operation Mode : 802.11a Test Date : 2016/9/8
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	37.50	-8.22	29.28	40	-10.72
118.27	S	Peak	41.51	-15.92	25.59	43.5	-17.91
268.62	S	Peak	46.72	-13.88	32.84	46	-13.16
353.01	S	Peak	44.23	-11.29	32.94	46	-13.06
479.11	S	Peak	39.62	-7.76	31.85	46	-14.15
805.03	S	Peak	39.46	-3.39	36.07	46	-9.93

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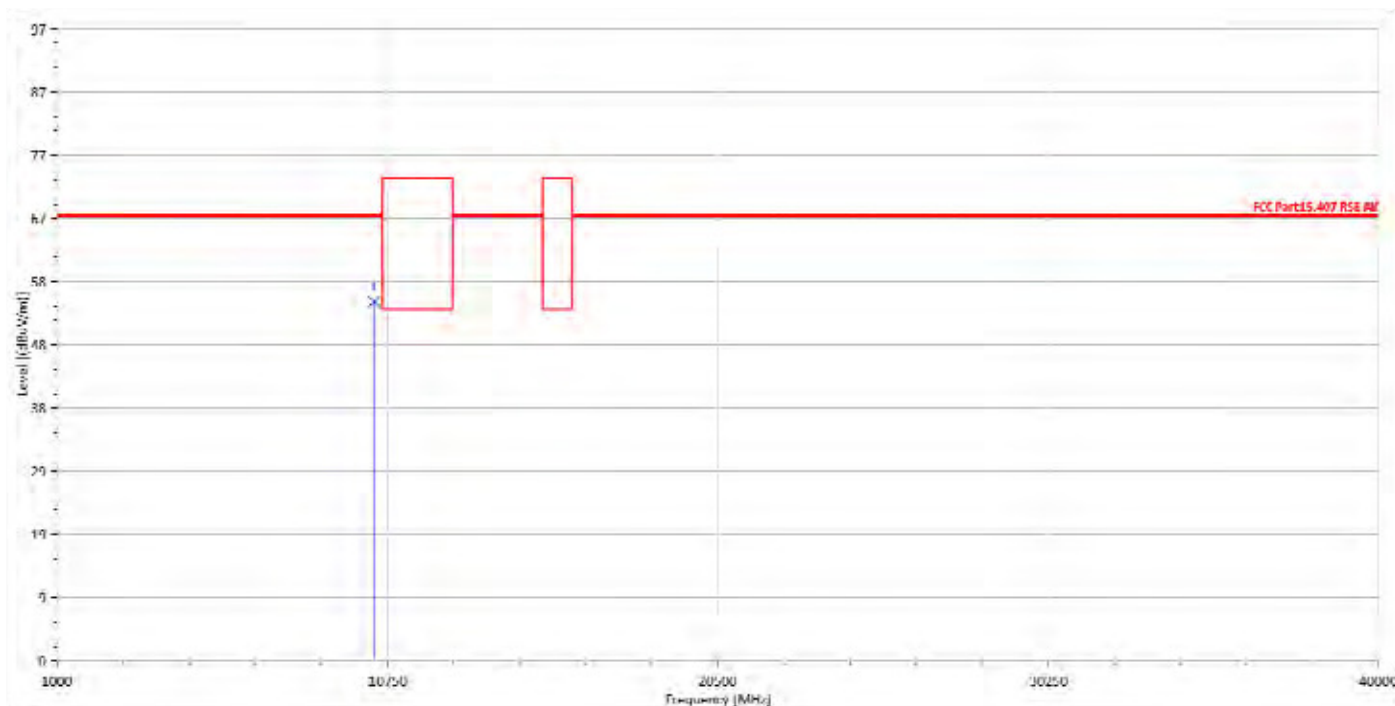
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	34.88	20.18	55.06	68.3	-13.24

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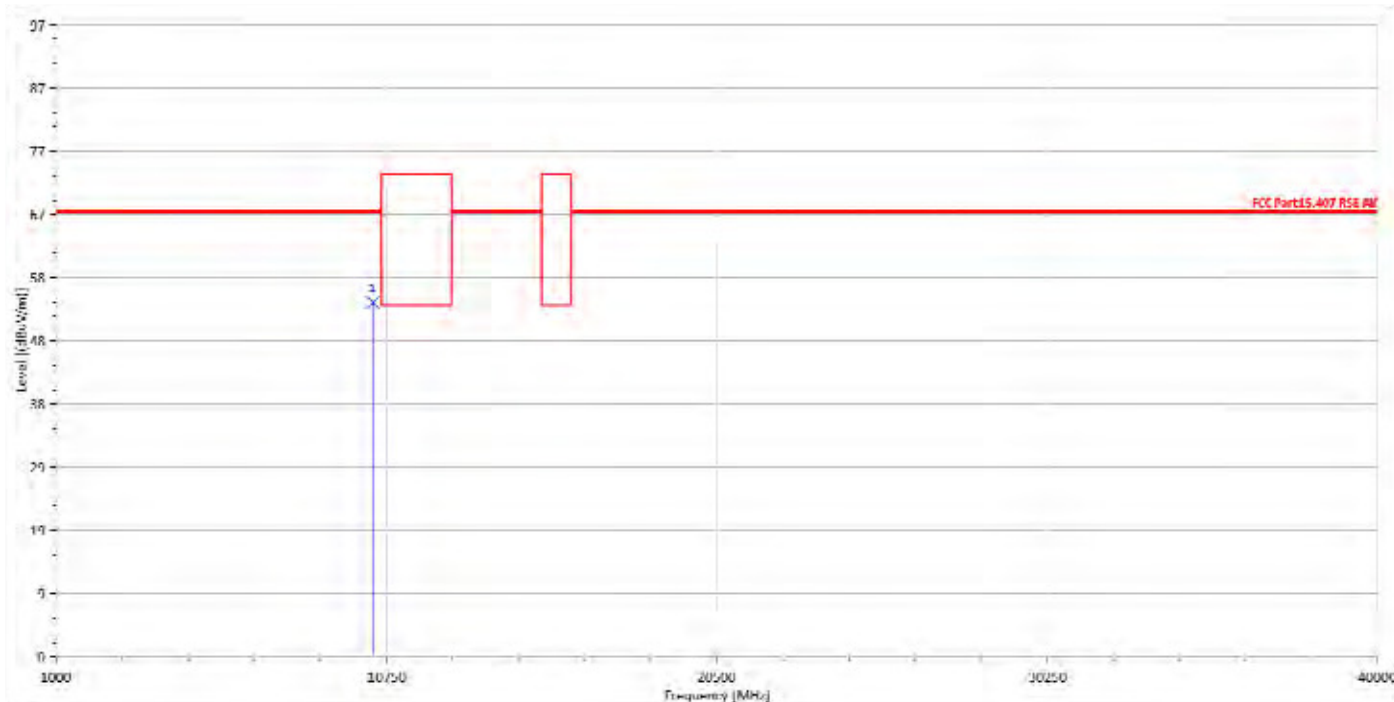
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	34.19	20.18	54.36	68.3	-13.94

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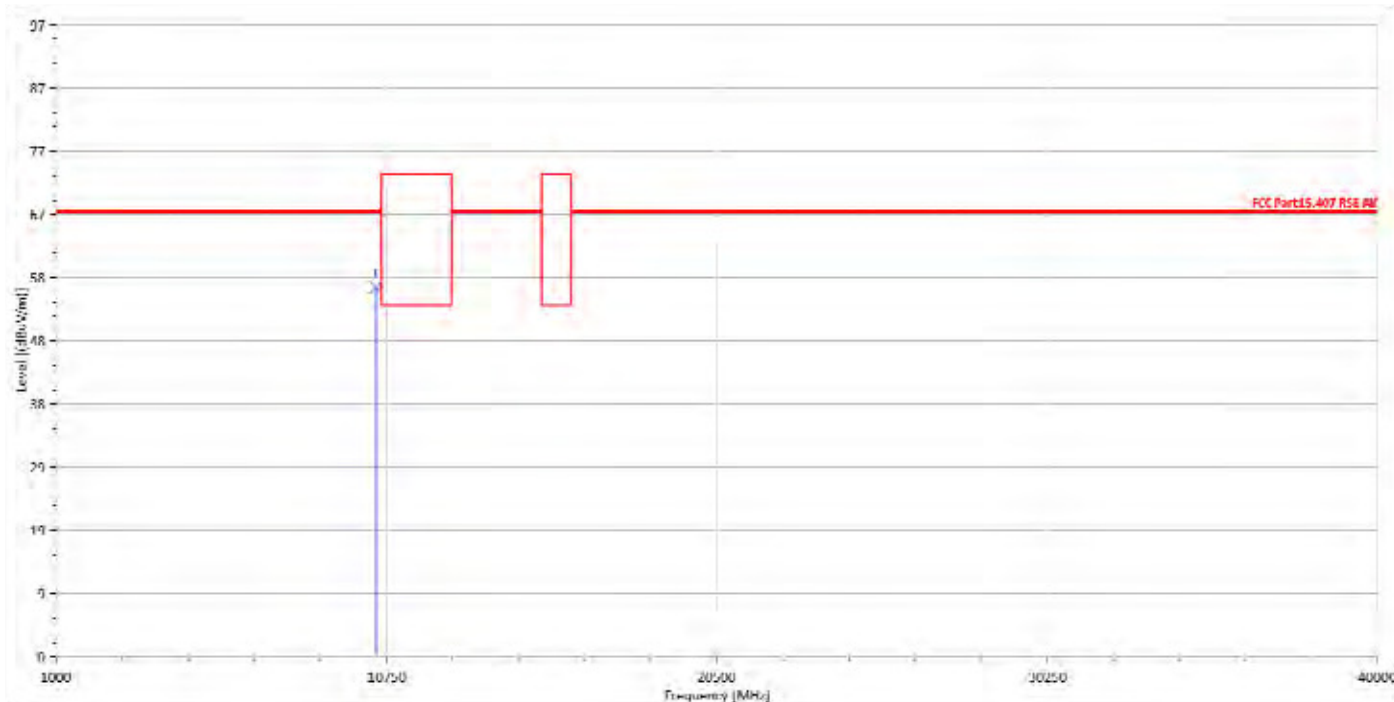
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10440.00	H	Peak	36.37	20.29	56.67	68.3	-11.63

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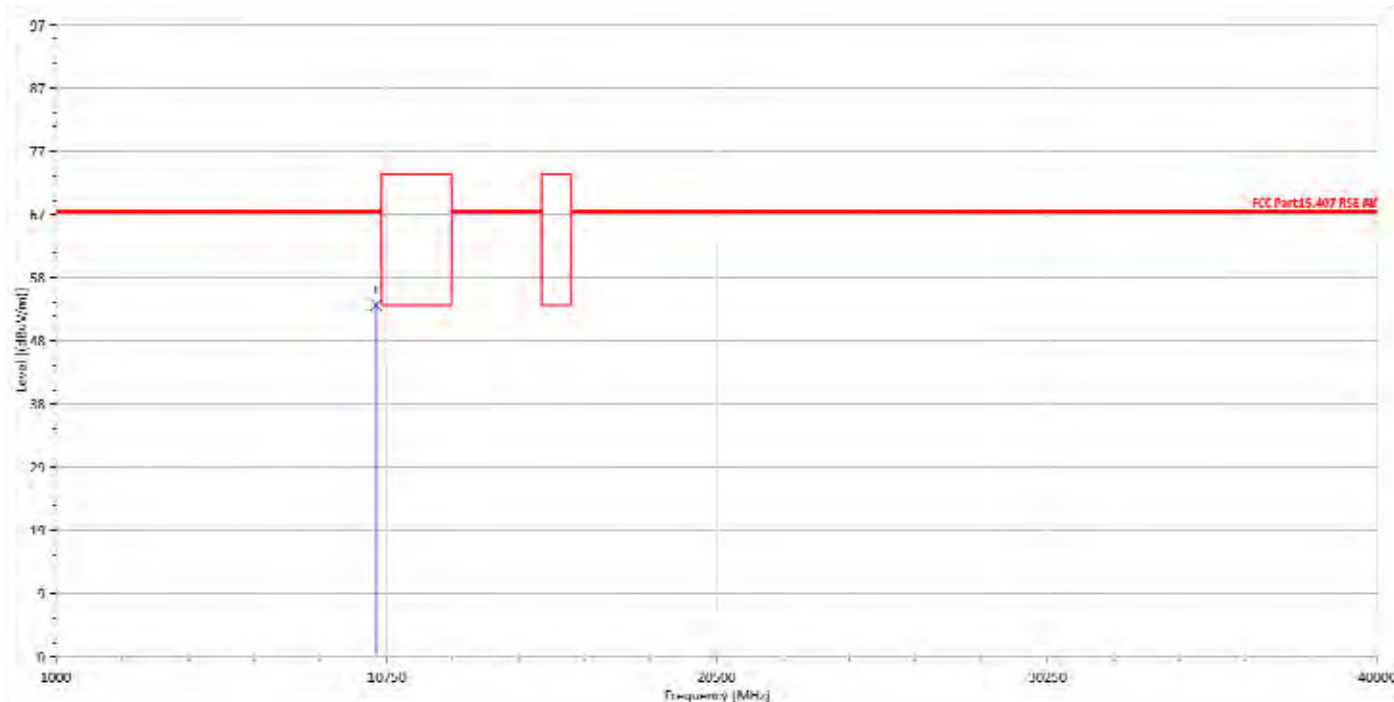
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	33.69	20.29	53.99	68.3	-14.31

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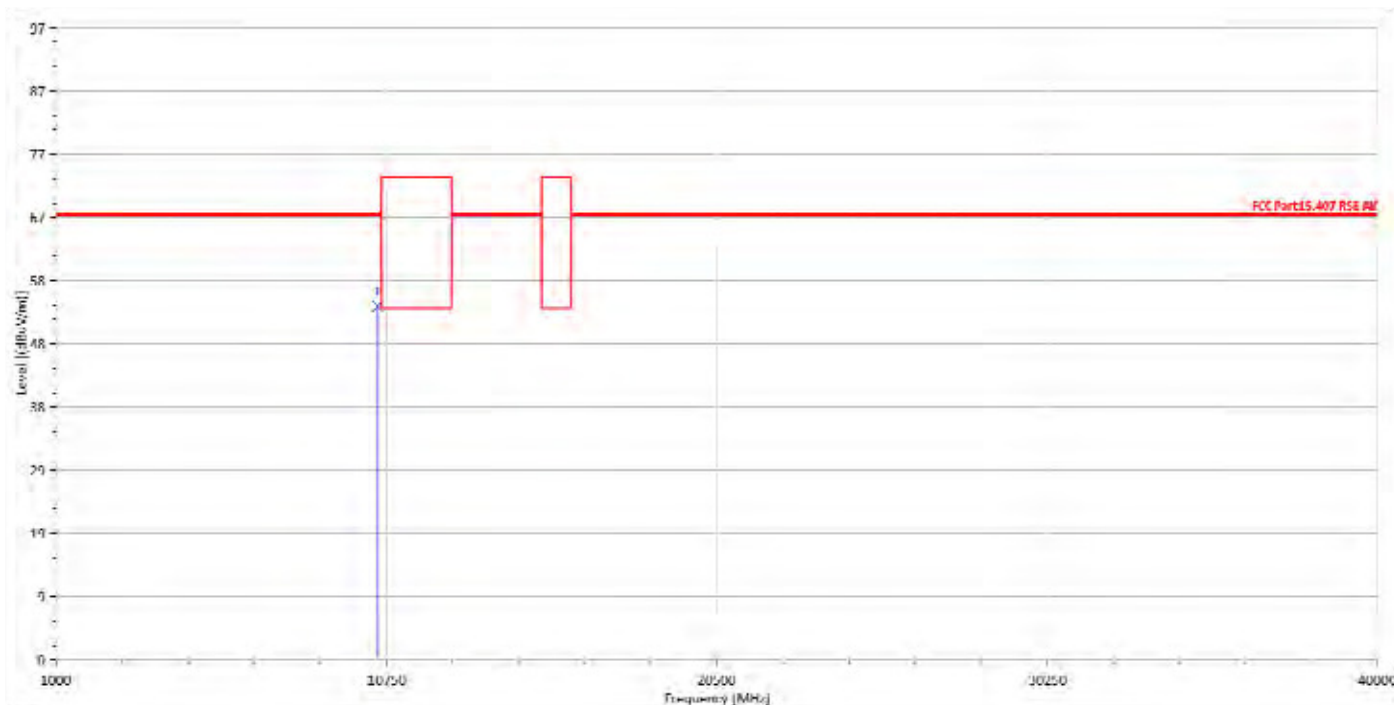
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	33.57	20.68	54.25	68.3	-14.05

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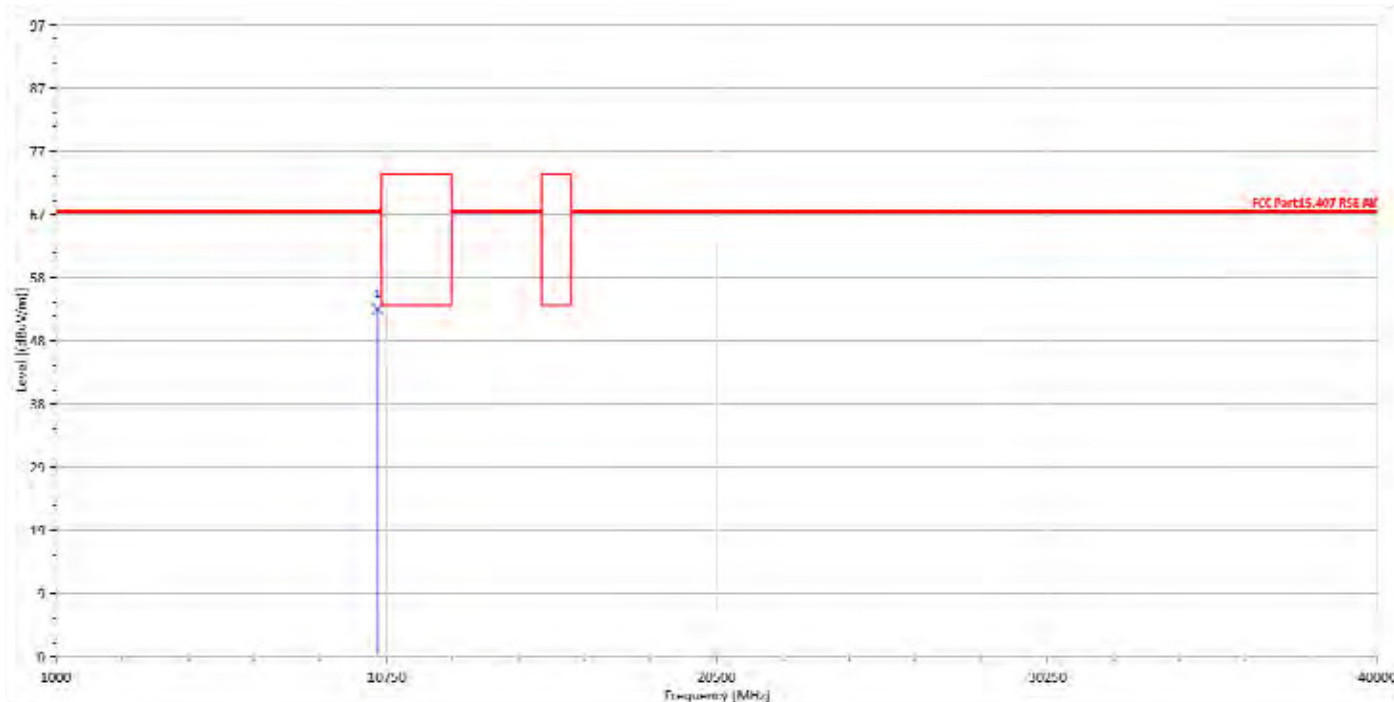
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	32.73	20.68	53.41	68.3	-14.89

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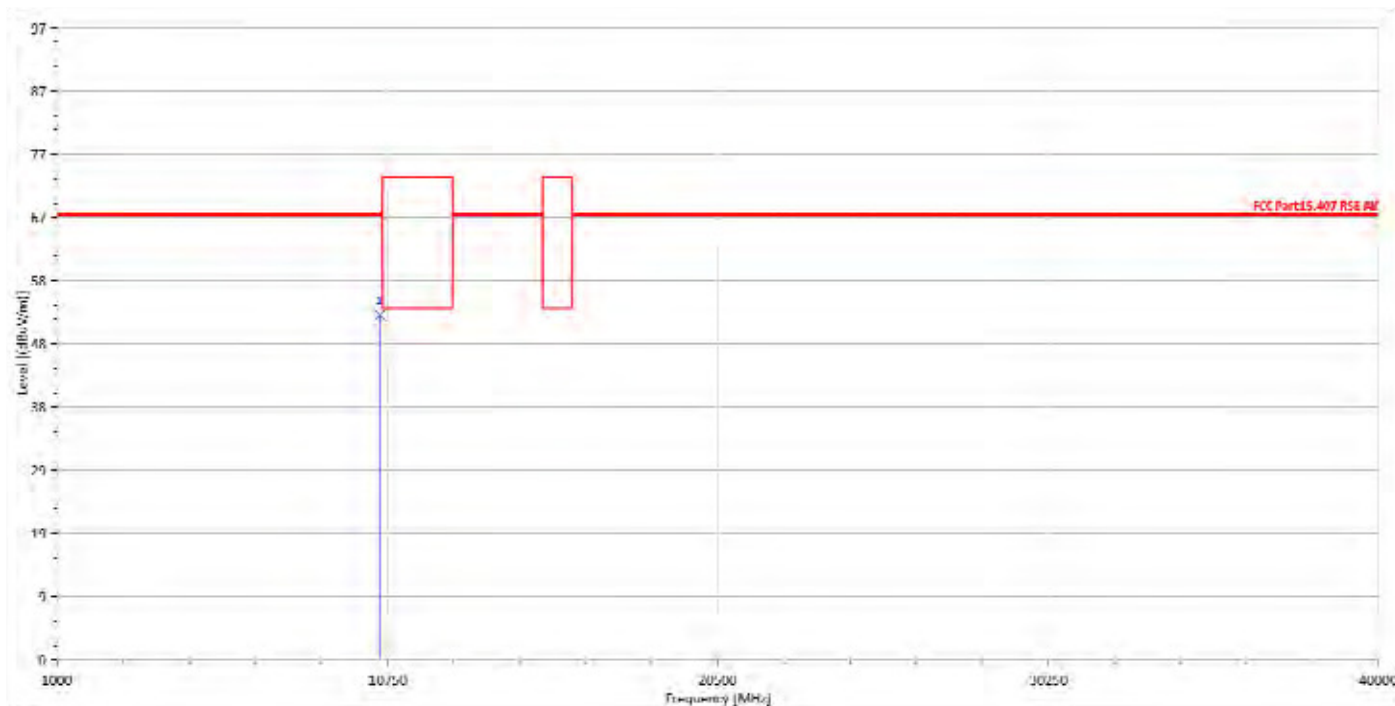
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	32.85	20.10	52.95	68.3	-15.35

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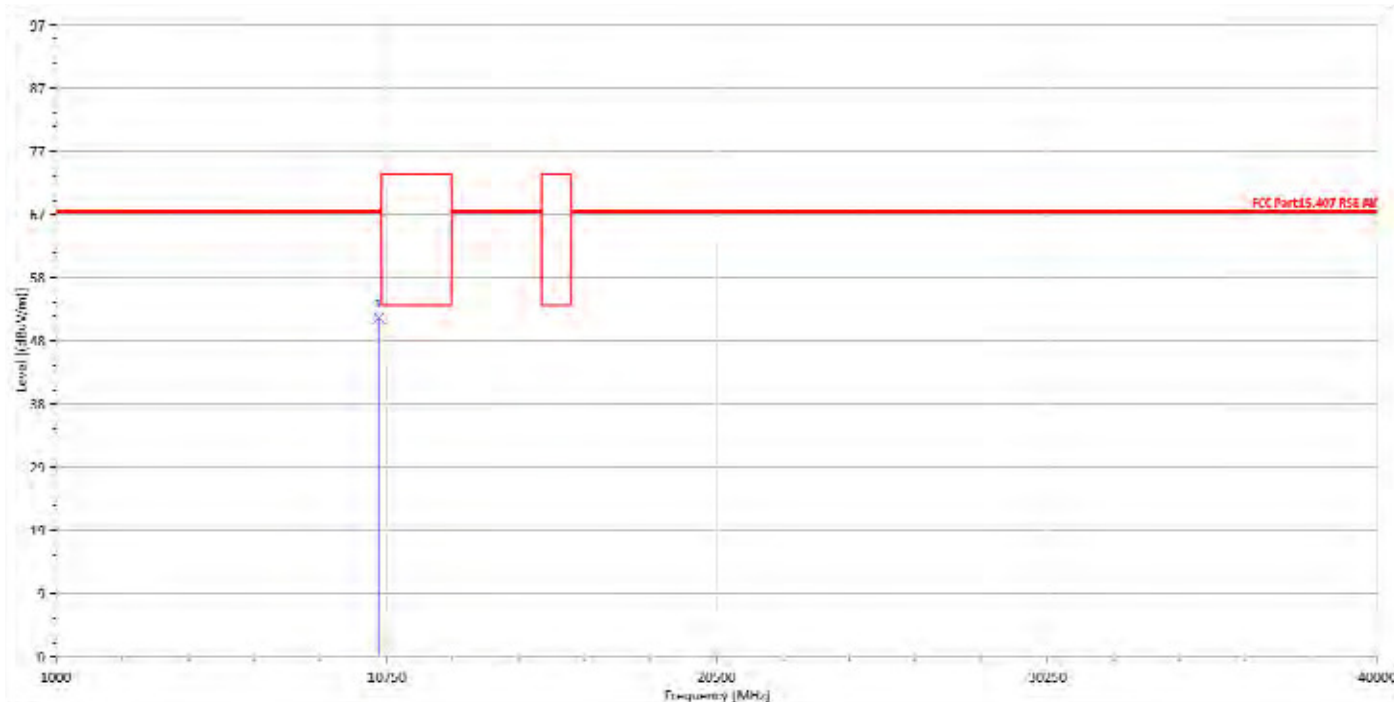
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	31.95	20.10	52.05	68.3	-16.25

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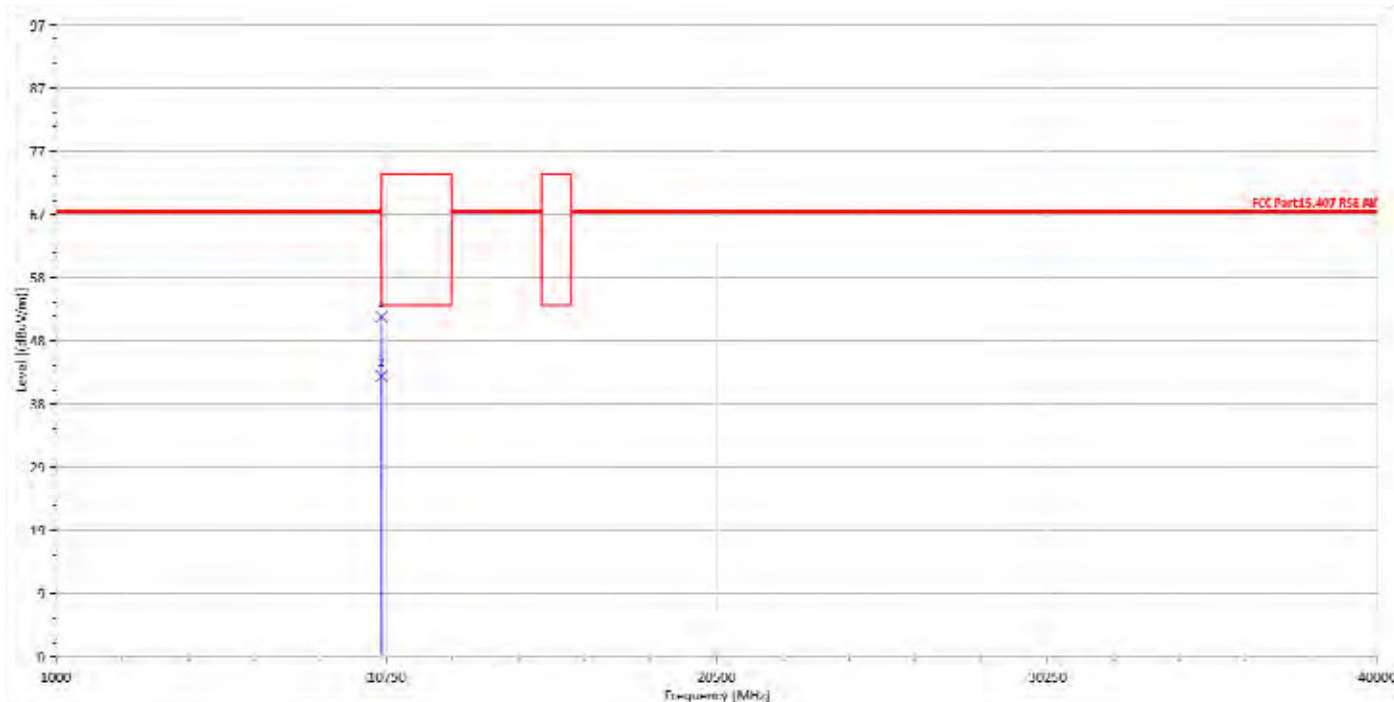
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Operation Mode : 802.11a Test Date : 2016/9/7
Fundamental Frequency : 5300 MHz Temp. / Humi. : 23.5 deg_C/56RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	32.04	20.17	52.21	74	-21.79
10600.00	H	Average	22.81	20.17	42.98	54	-11.02

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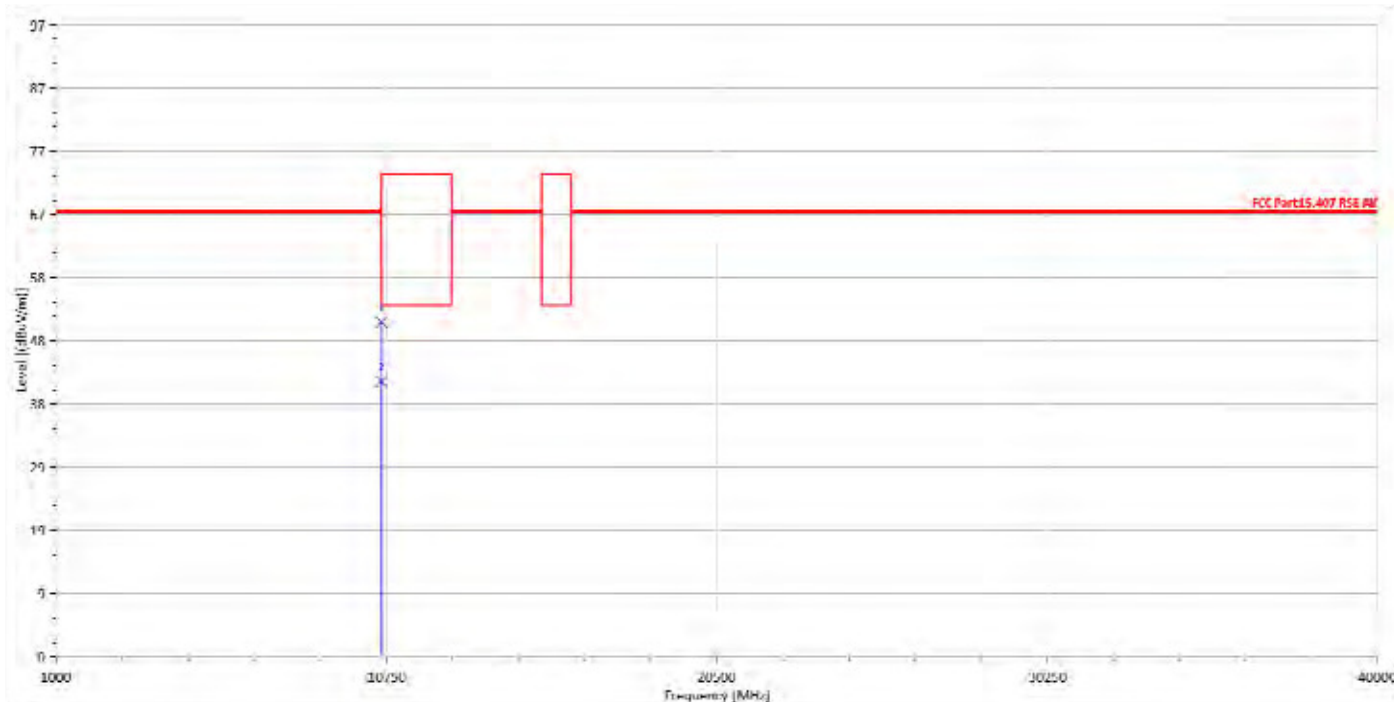
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	31.23	20.17	51.39	74	-22.61
10600.00	H	Average	22.01	20.17	42.18	54	-11.82

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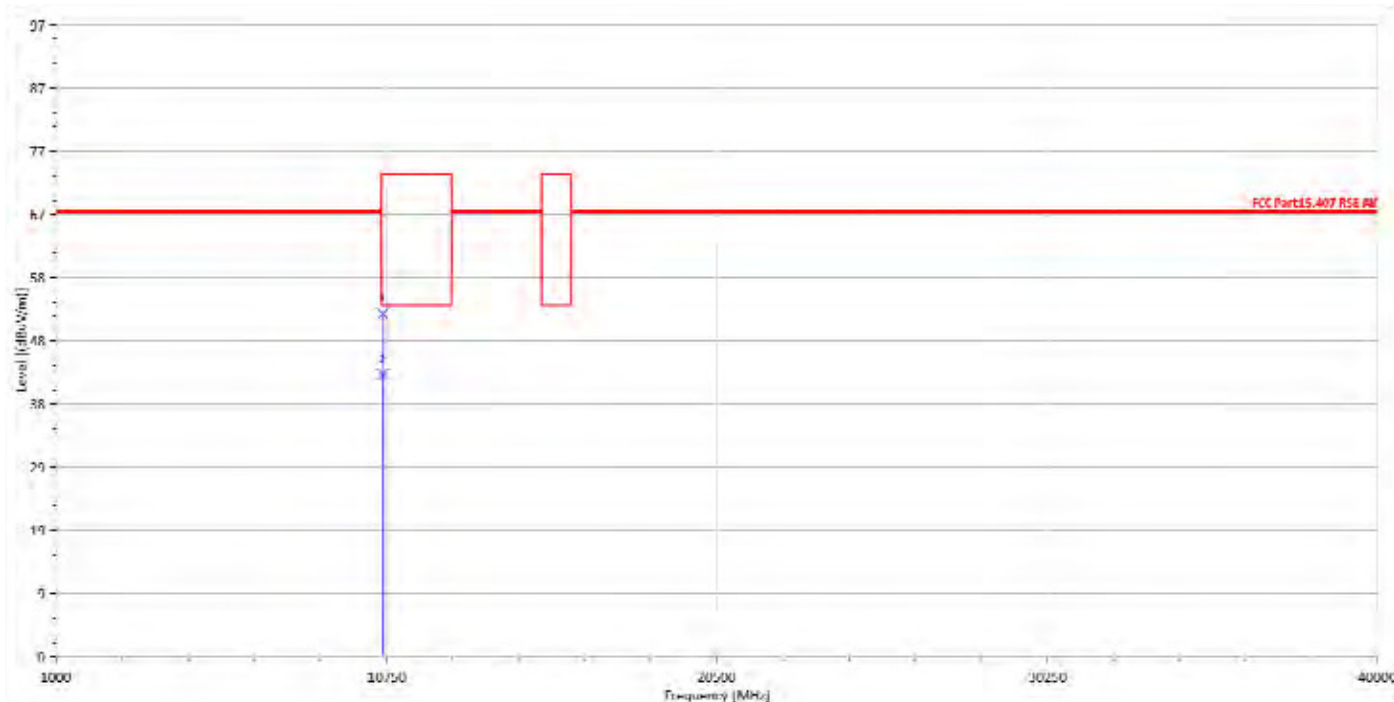
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	32.36	20.34	52.70	74	-21.30
10640.00	H	Average	22.97	20.34	43.31	54	-10.69

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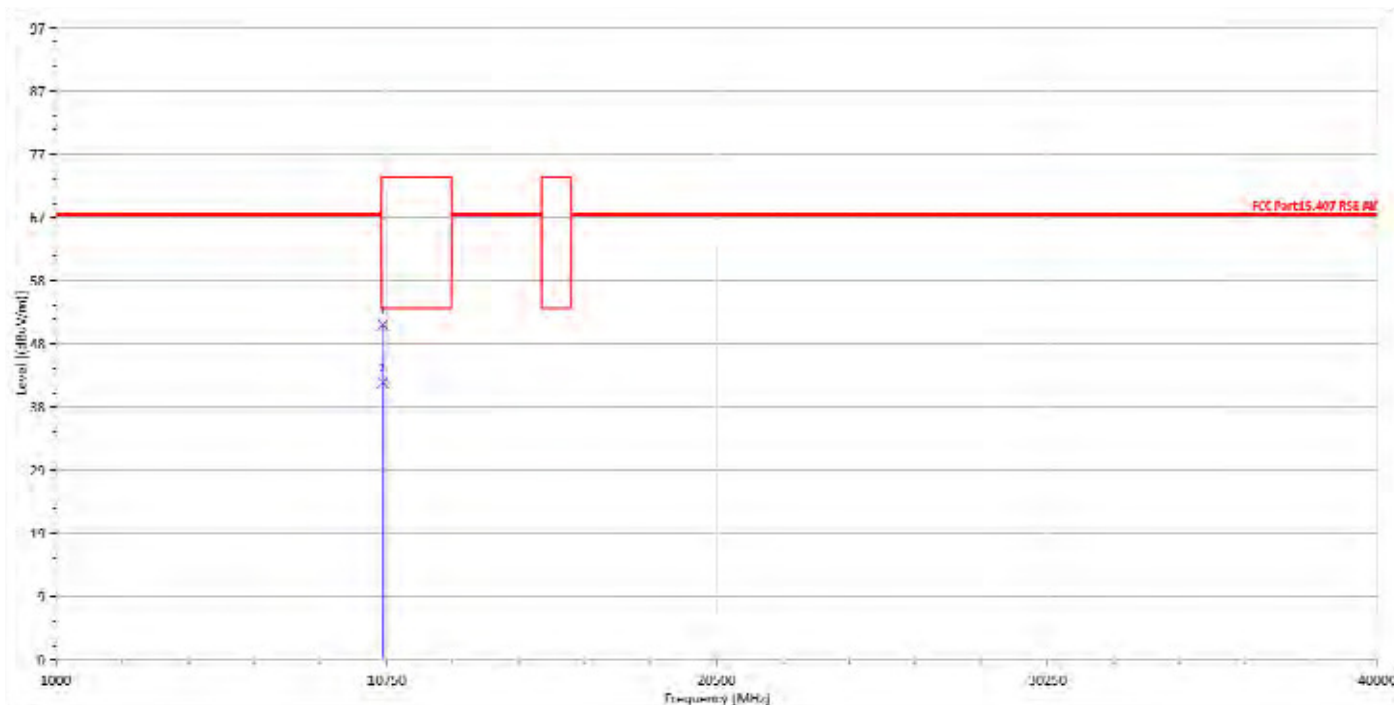
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	31.11	20.34	51.45	74	-22.55
10640.00	H	Average	22.16	20.34	42.50	54	-11.50

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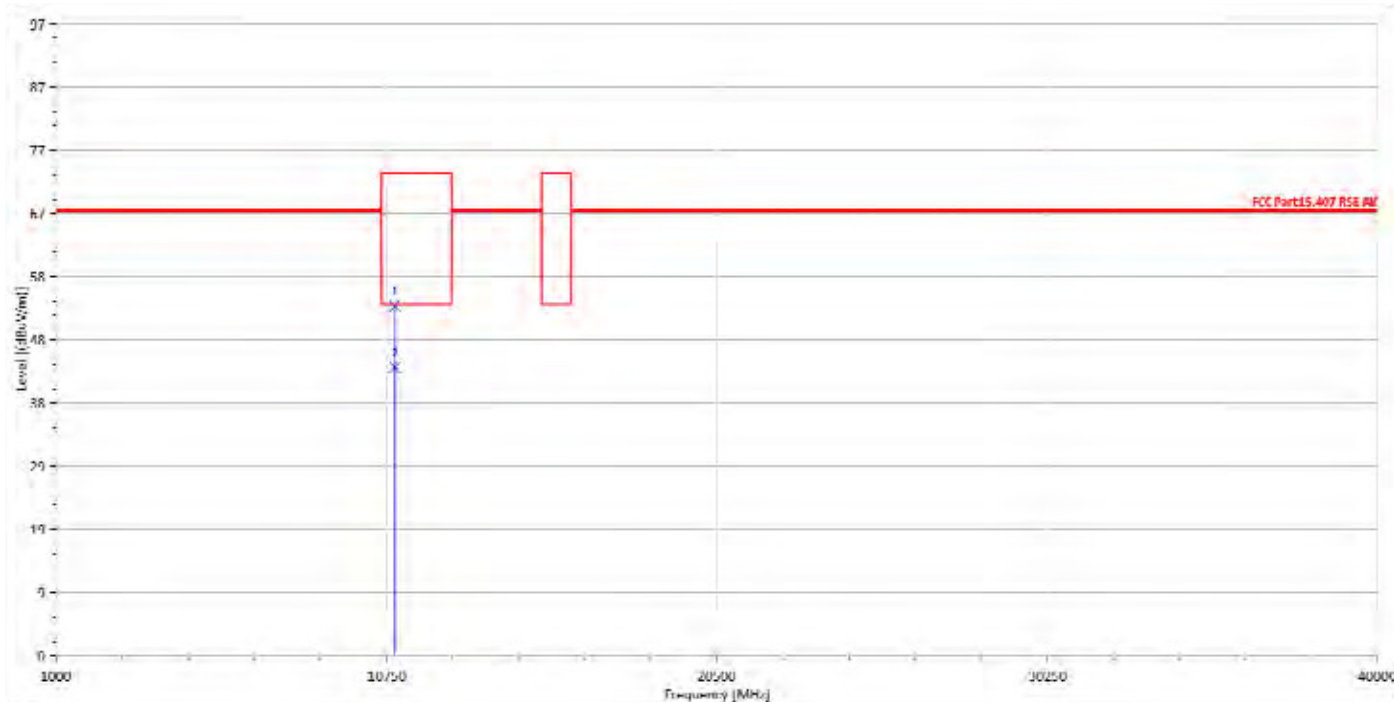
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Peak	31.58	22.11	53.69	74	-20.31
11000.00	H	Average	22.13	22.11	44.24	54	-9.76

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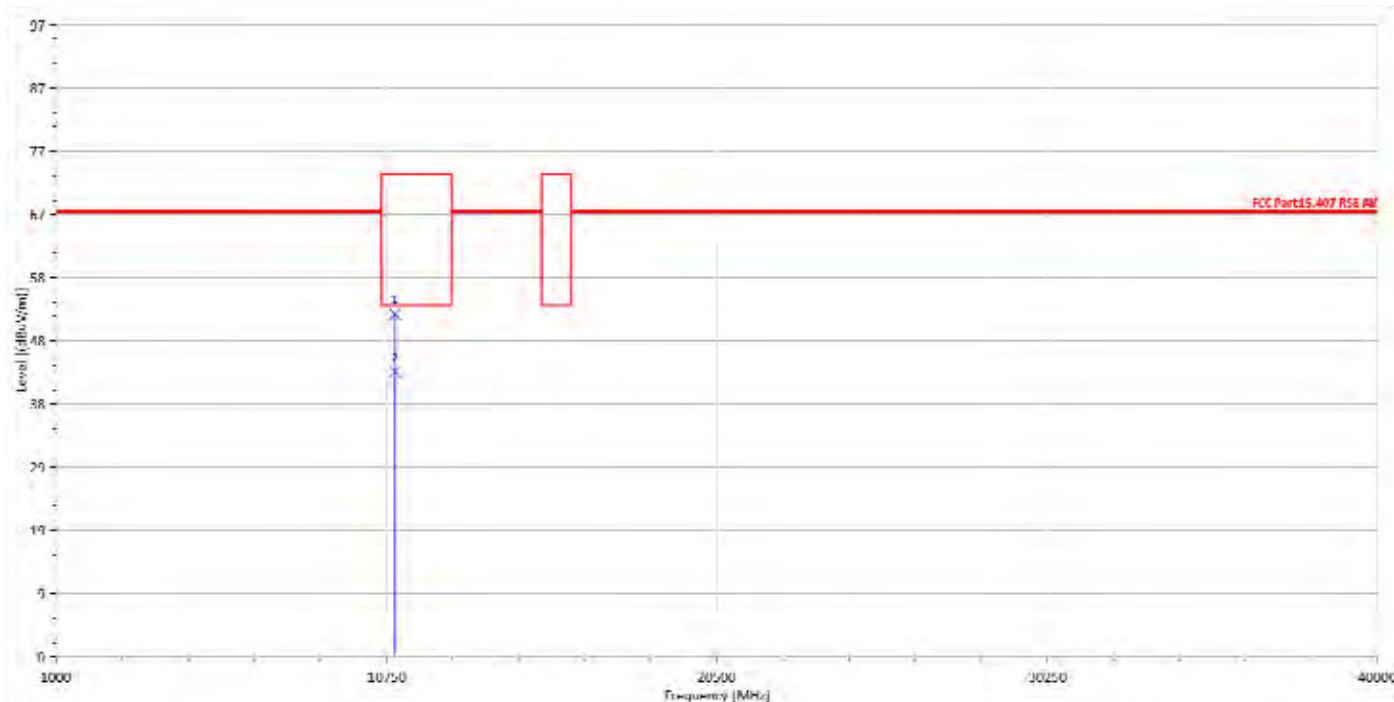
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Operation Mode : 802.11a Test Date : 2016/9/7
Fundamental Frequency : 5500 MHz Temp. / Humi. : 23.5 deg_C/56RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	30.52	22.11	52.62	74	-21.38
11000.00	H	Average	21.61	22.11	43.72	54	-10.28

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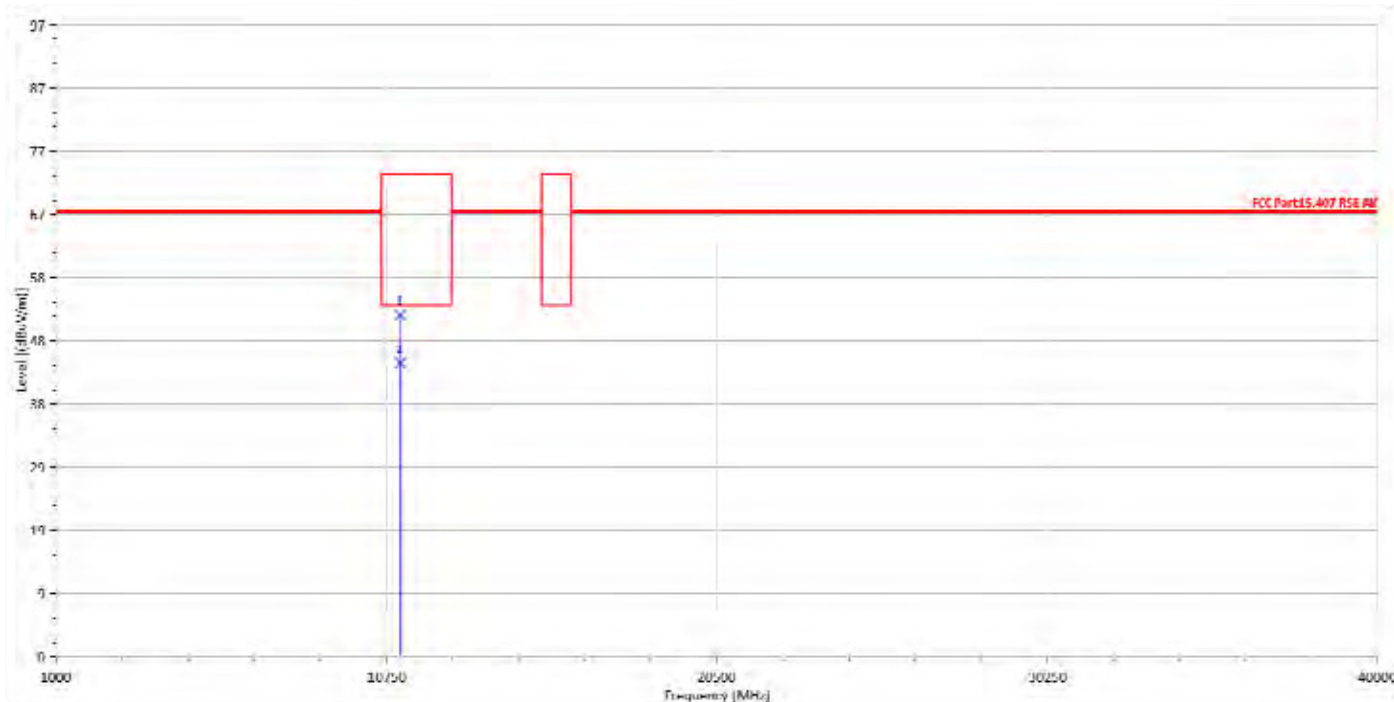
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Operation Mode : 802.11a Test Date : 2016/9/7
Fundamental Frequency : 5580 MHz Temp. / Humi. : 23.5 deg_C/56RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.47	22.04	52.51	74	-21.49
11160.00	H	Average	23.01	22.04	45.05	54	-8.95

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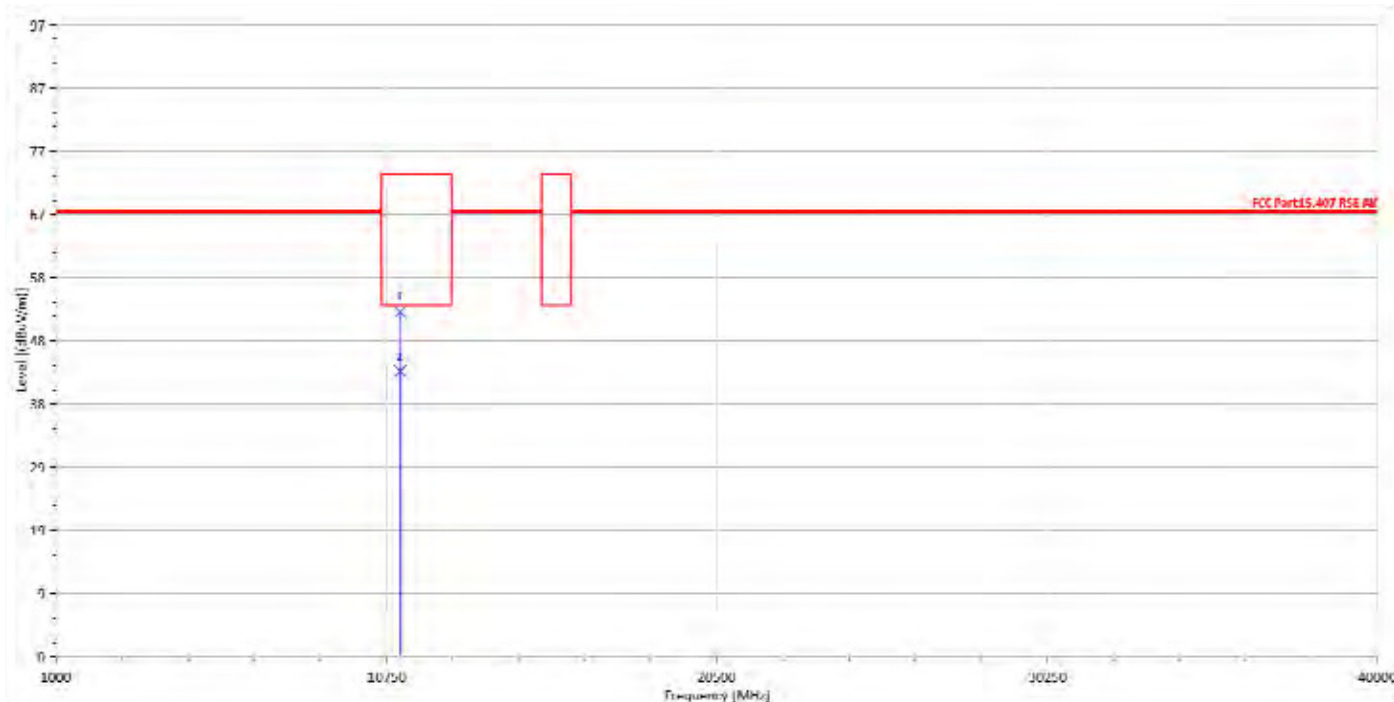
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	30.94	22.04	52.98	74	-21.02
11160.00	H	Average	21.77	22.04	43.81	54	-10.19

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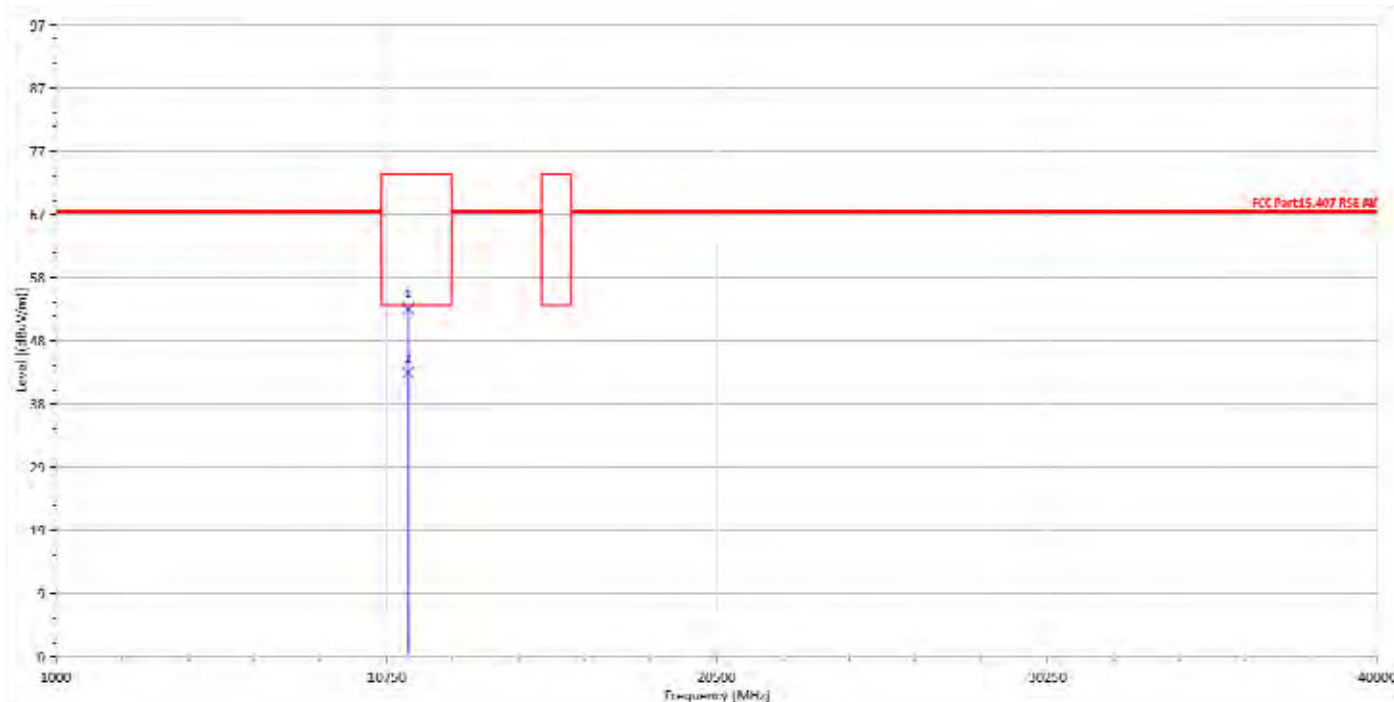
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Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	32.21	21.22	53.42	74	-20.58
11400.00	H	Average	22.34	21.22	43.56	54	-10.44

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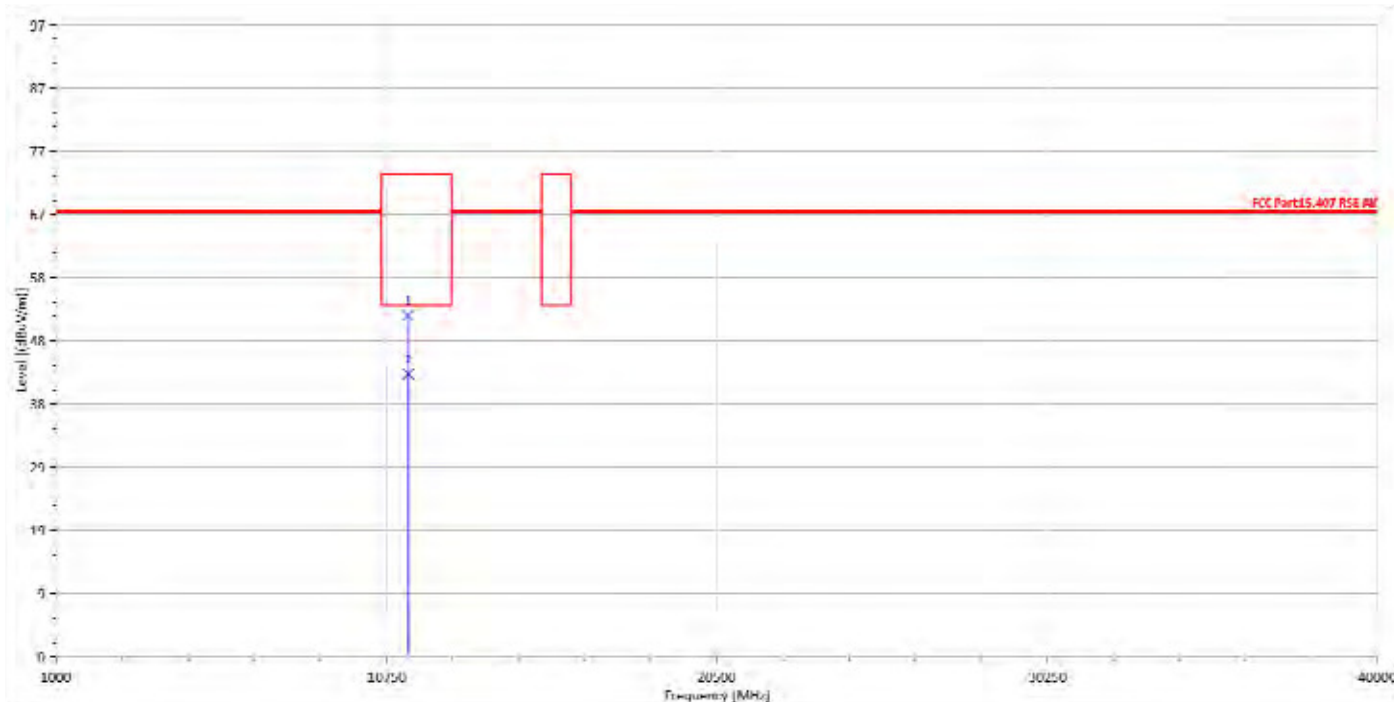
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	31.22	21.22	52.44	74	-21.56
11400.00	H	Average	22.14	21.22	43.36	54	-10.64

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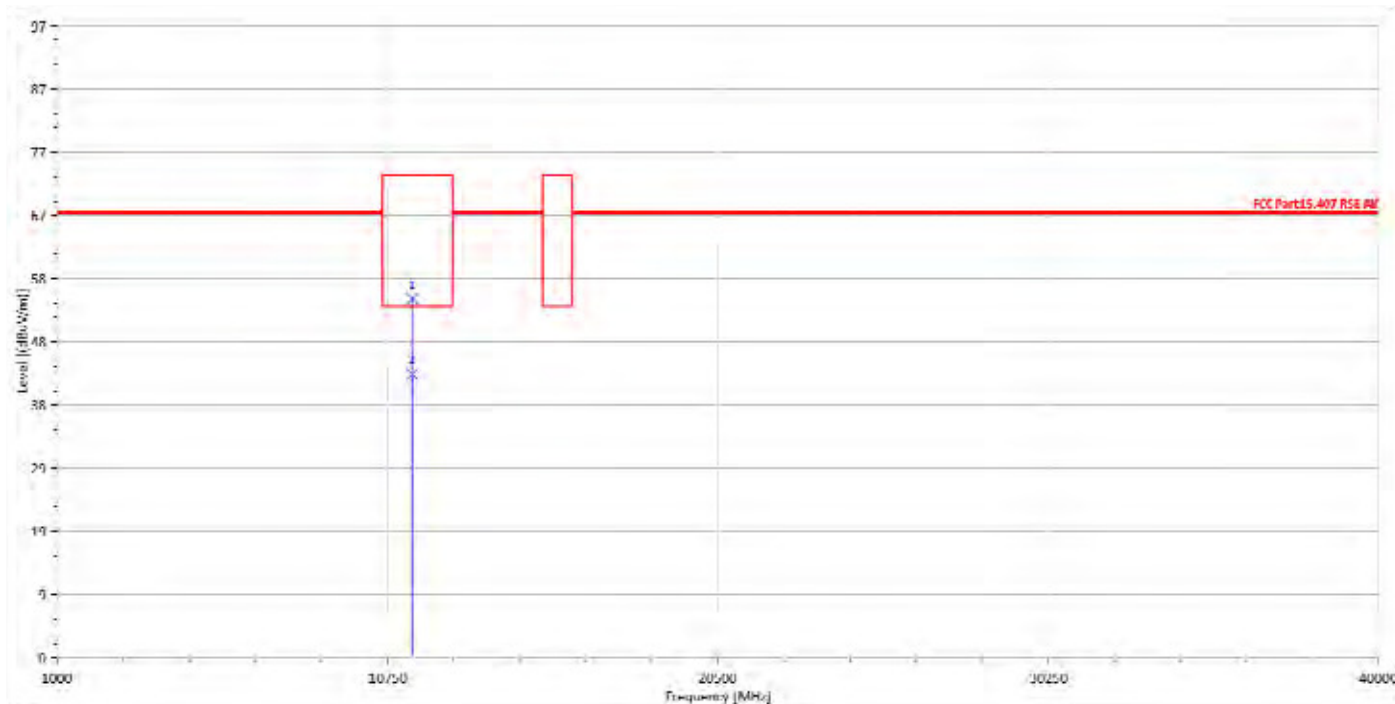
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11490.00	H	Peak	34.32	20.70	55.02	74	-18.98
11490.00	H	Average	22.78	20.70	43.48	54	-10.52

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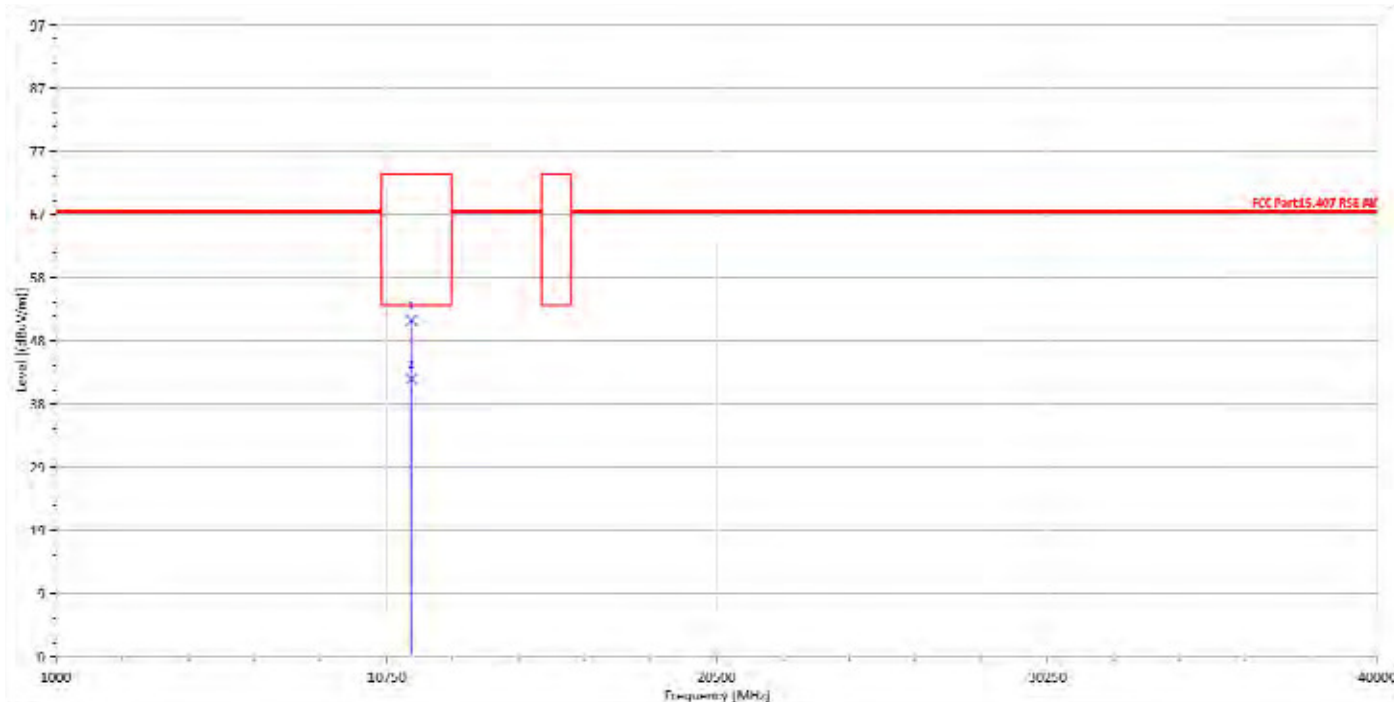
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Operation Mode : 802.11a Test Date : 2016/9/7
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	30.96	20.70	51.66	74	-22.34
11490.00	H	Average	21.87	20.70	42.57	54	-11.43

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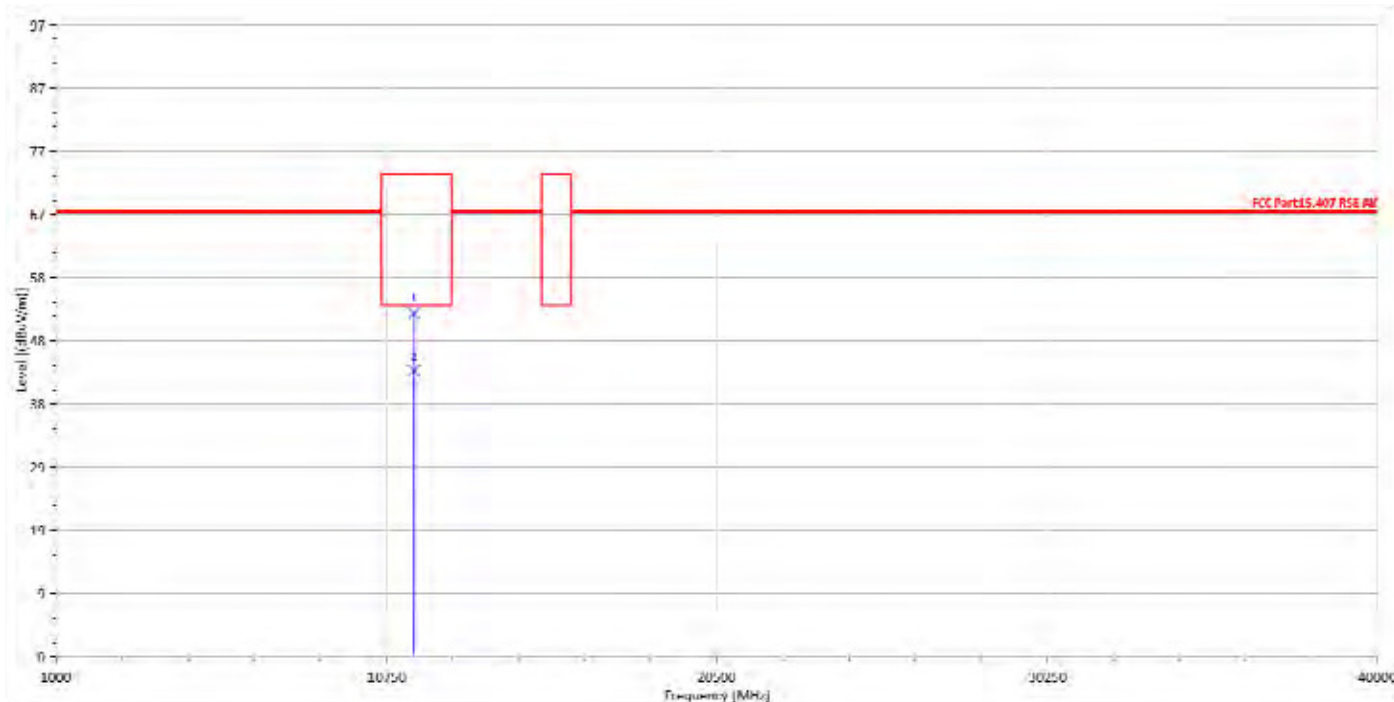
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Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	31.31	21.44	52.75	74	-21.25
11570.00	H	Average	22.45	21.44	43.89	54	-10.11

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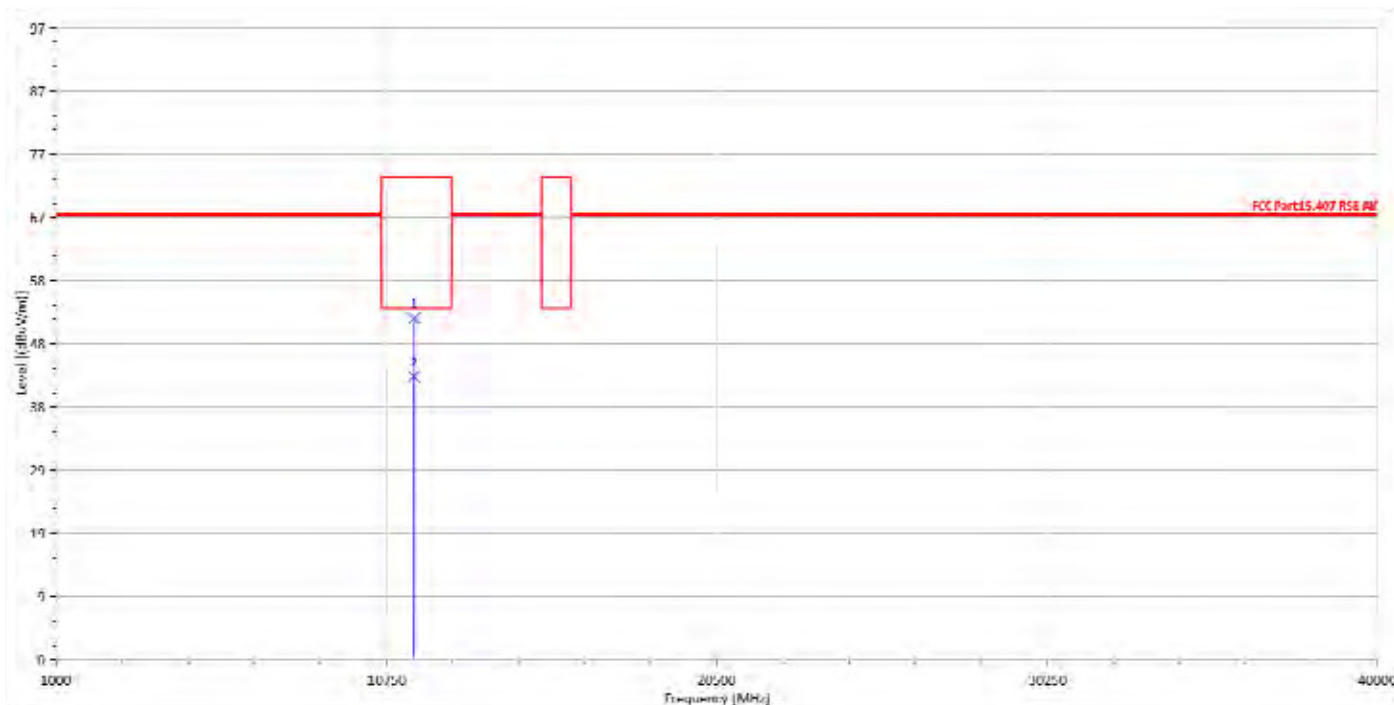
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Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11570.00	H	Peak	31.00	21.44	52.45	74	-21.55
11570.00	H	Average	21.99	21.44	43.43	54	-10.57

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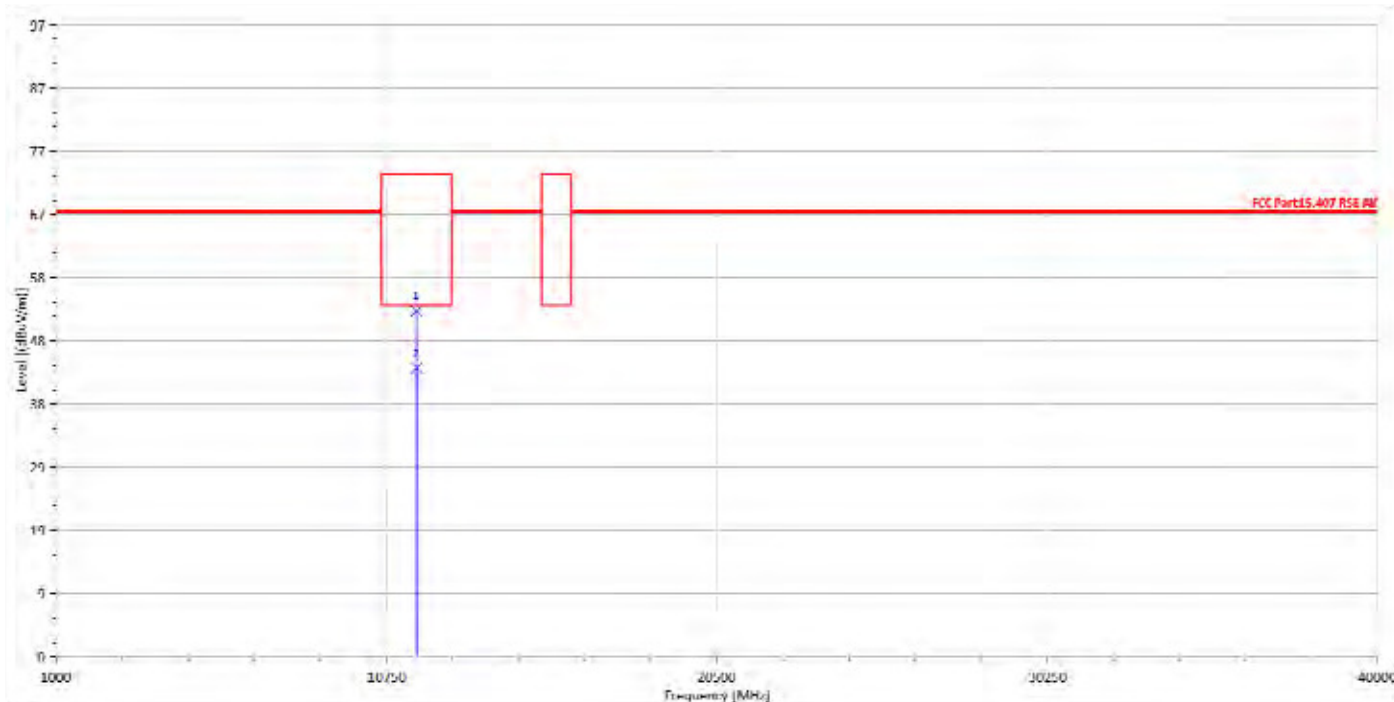
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Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	31.12	22.02	53.14	74	-20.86
11650.00	H	Average	22.28	22.02	44.30	54	-9.70

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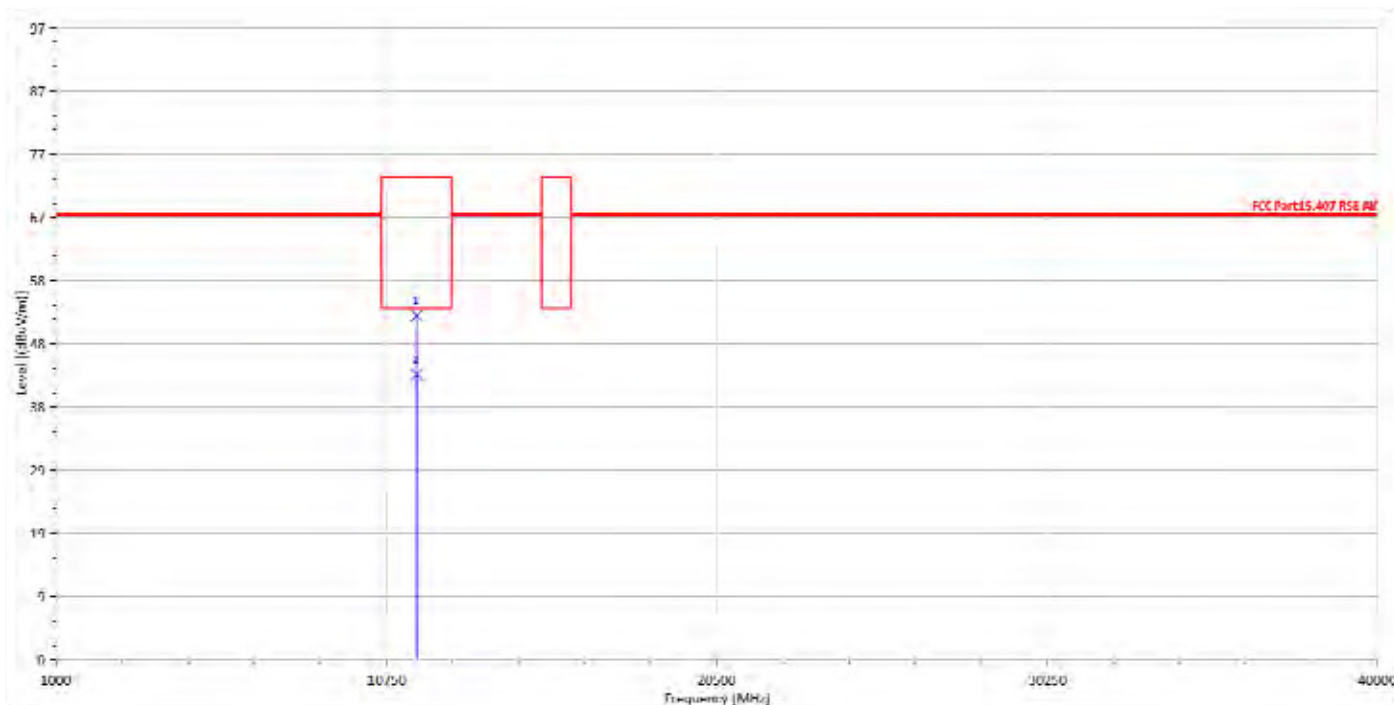
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Operation Mode :	802.11a	Test Date :	2016/9/7
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	30.82	22.02	52.84	74	-21.16
11650.00	H	Average	21.73	22.02	43.75	54	-10.25

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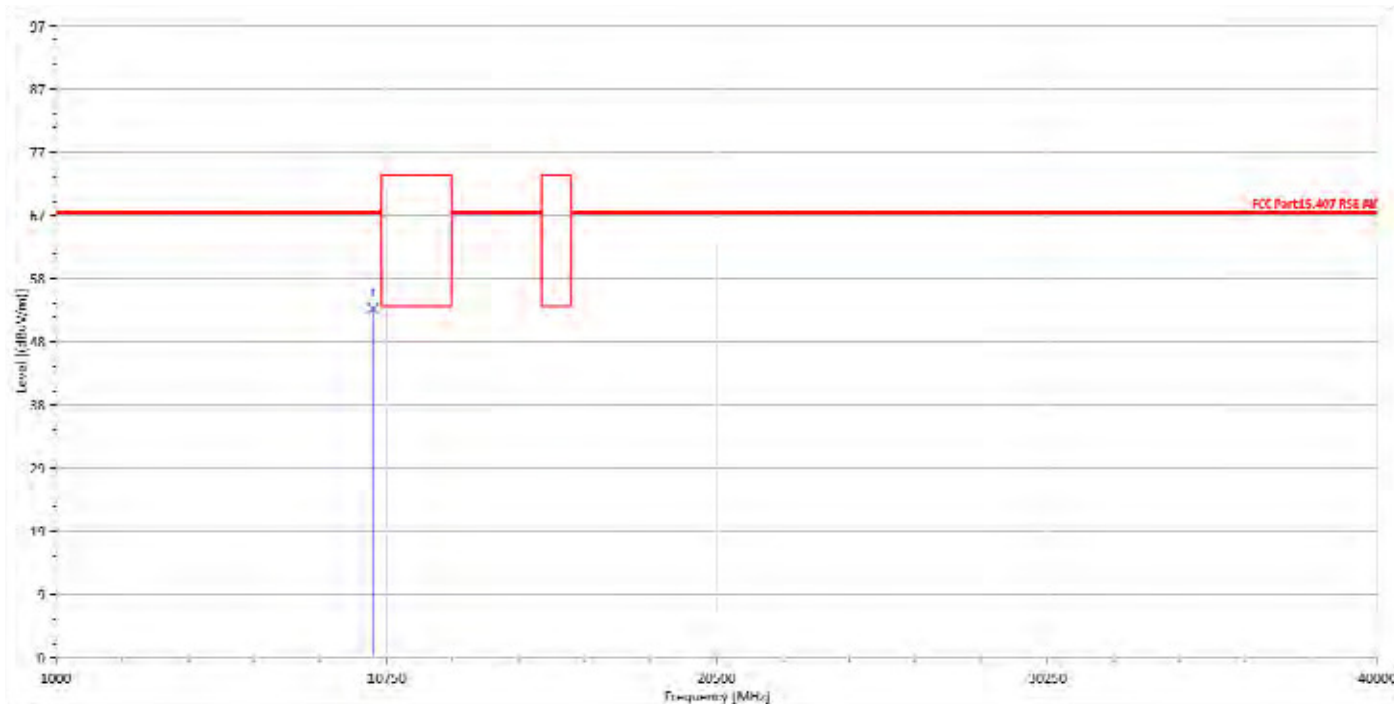
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2016/9/7
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	33.47	20.18	53.65	68.3	-14.65

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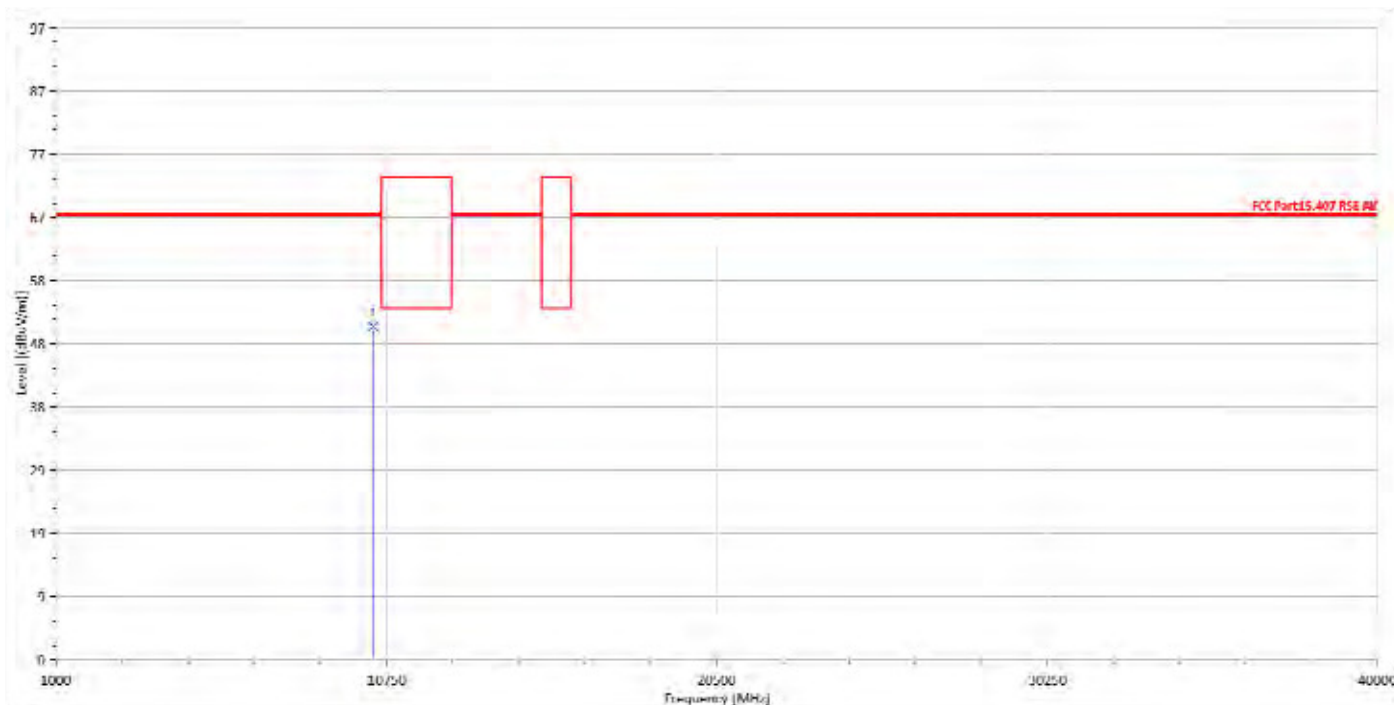
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	30.99	20.18	51.17	68.3	-17.13

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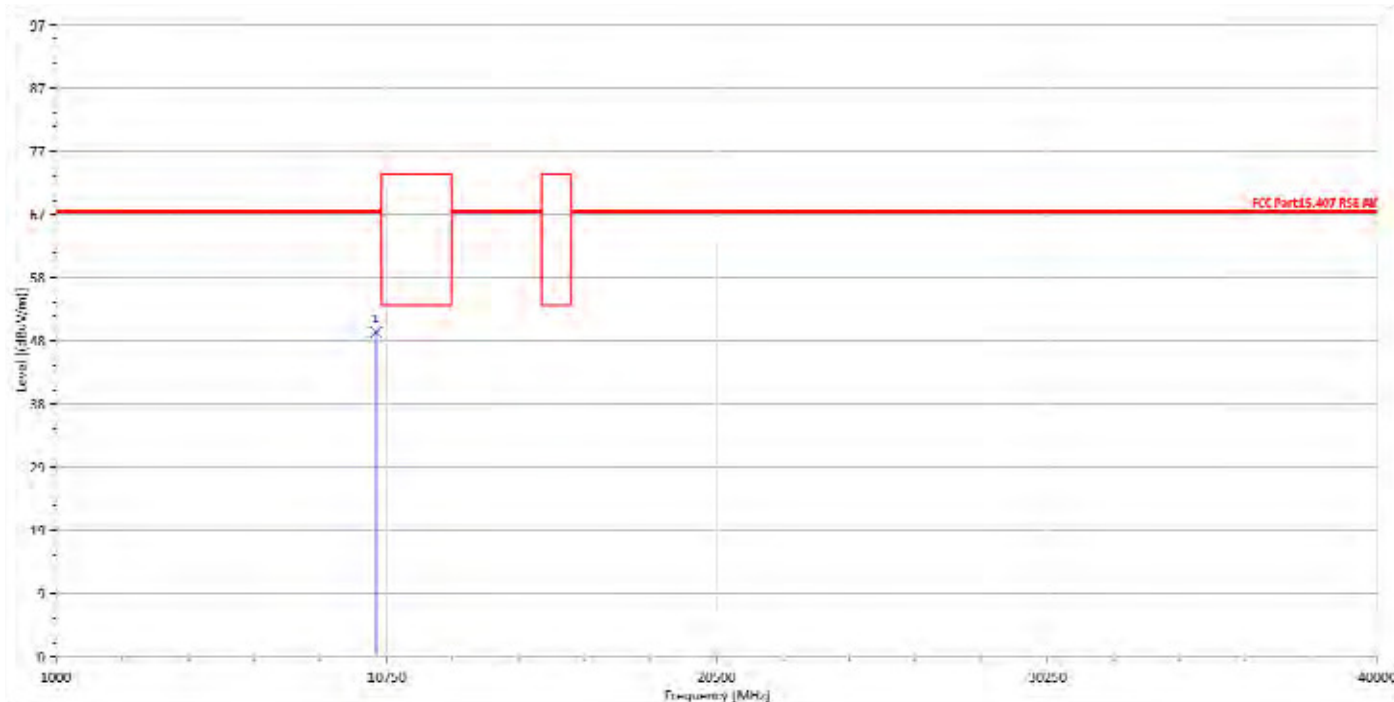
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	dB
10440.00	H	Peak	29.54	20.29	49.83	68.3	-18.47

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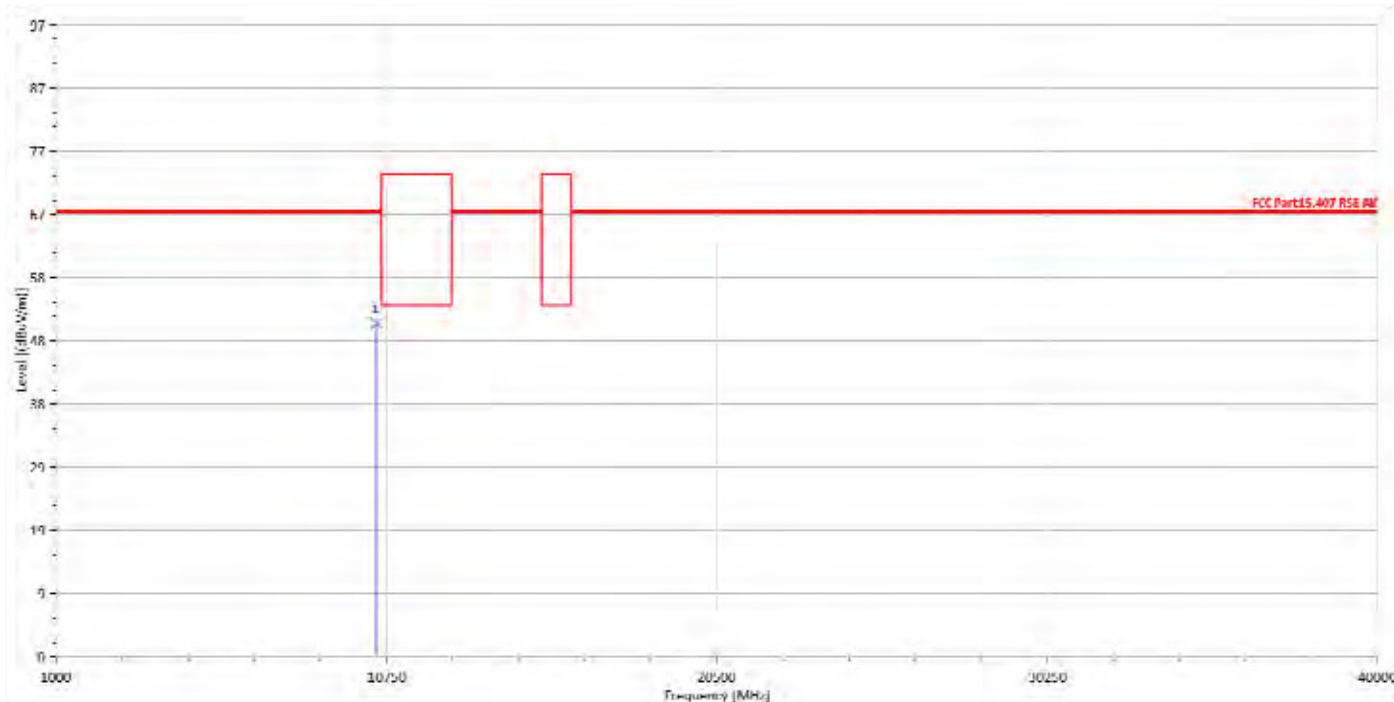
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	H	Peak	30.90	20.29	51.19	68.3	-17.11

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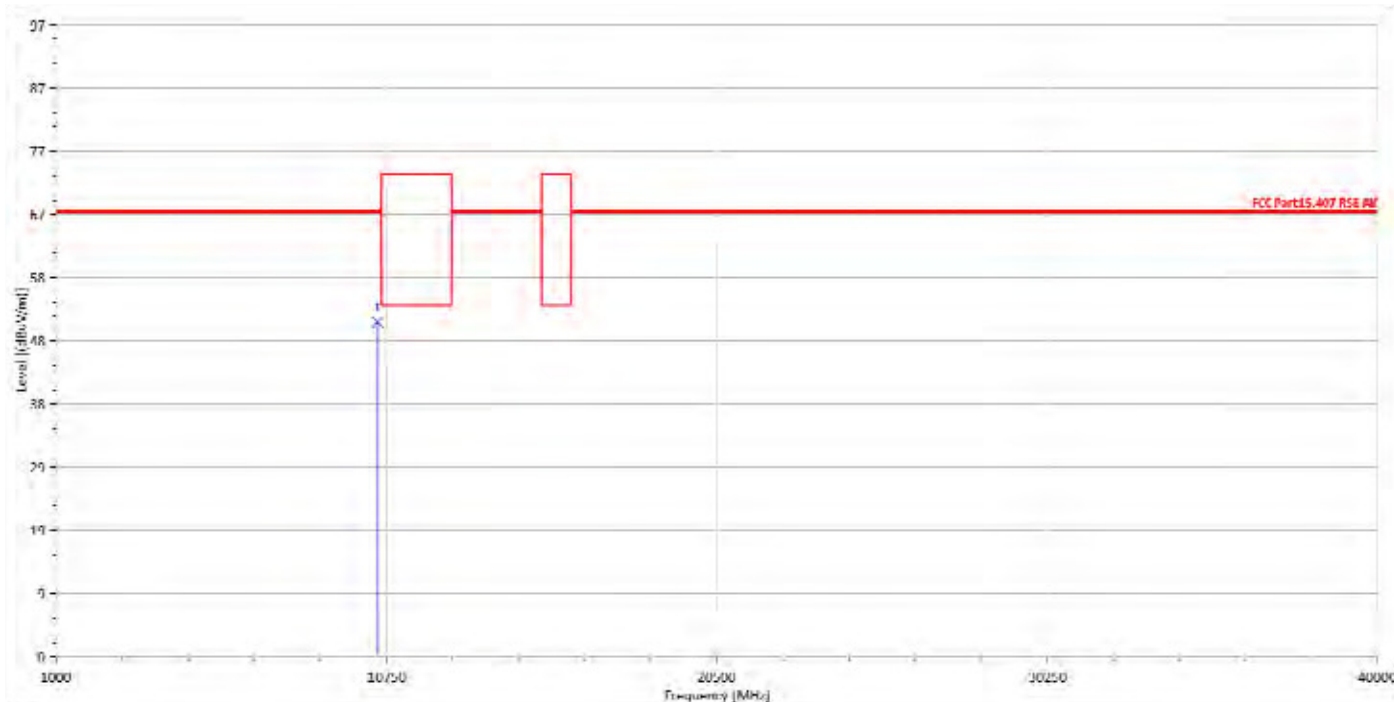
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Operation Mode : 802.11n20 Test Date : 2016/9/7
Fundamental Frequency : 5240 MHz Temp. / Humi. : 23.5 deg_C/56RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	30.71	20.68	51.39	68.3	-16.91

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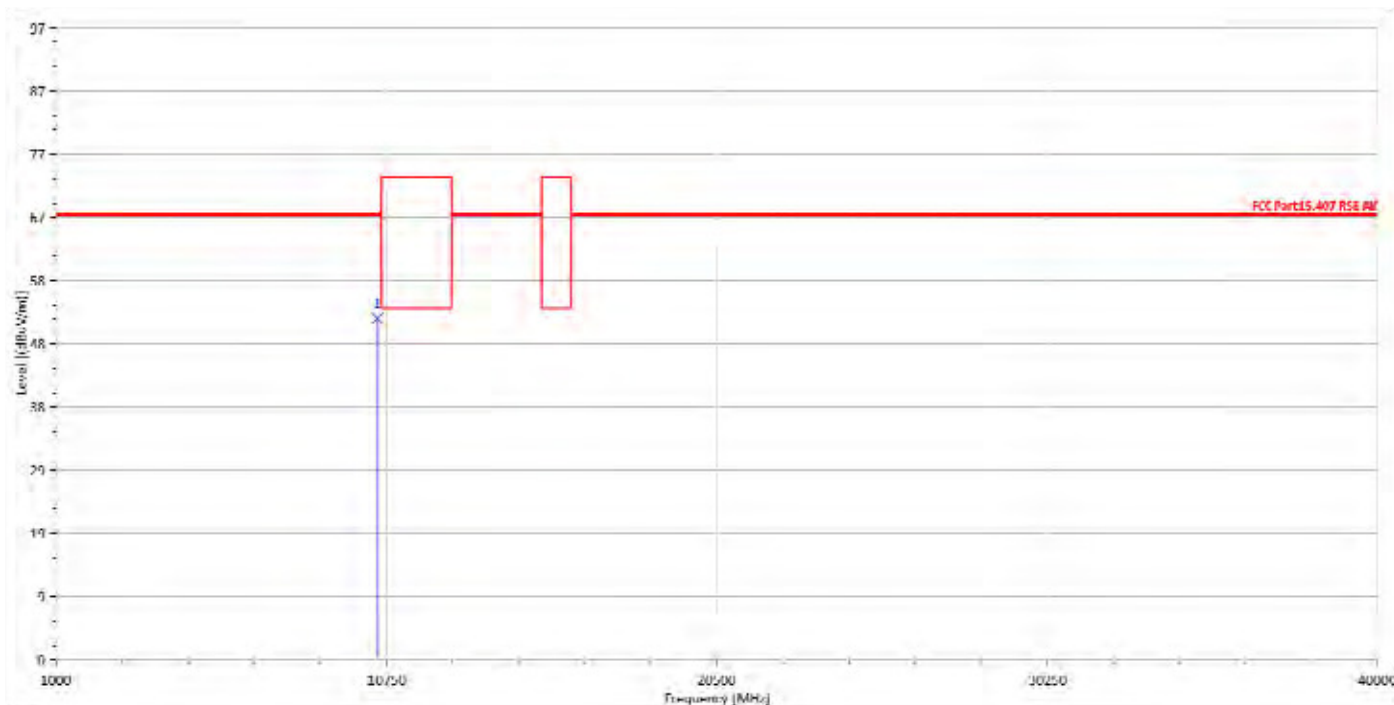
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	H	Peak	31.76	20.68	52.44	68.3	-15.86

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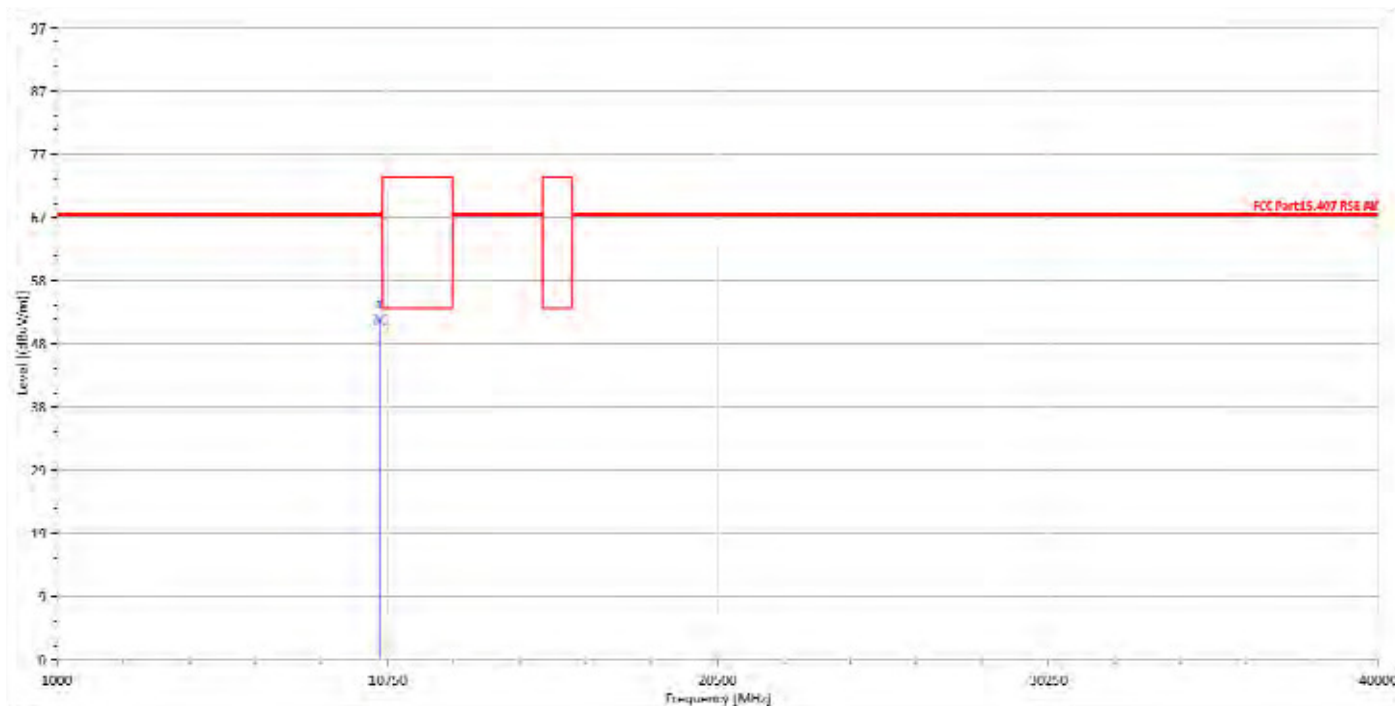
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2016/9/7
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	32.12	20.10	52.22	68.3	-16.08

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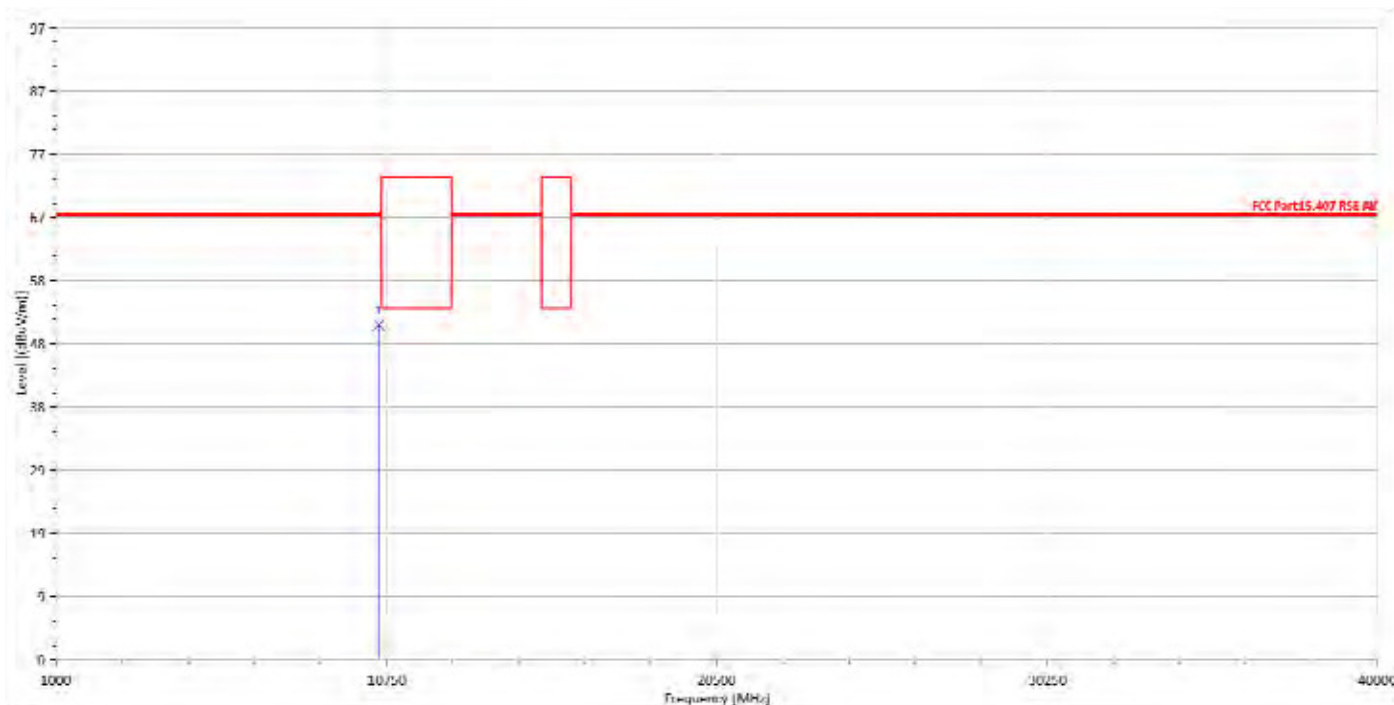
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10520.00	H	Peak	31.32	20.10	51.42	68.3	-16.88

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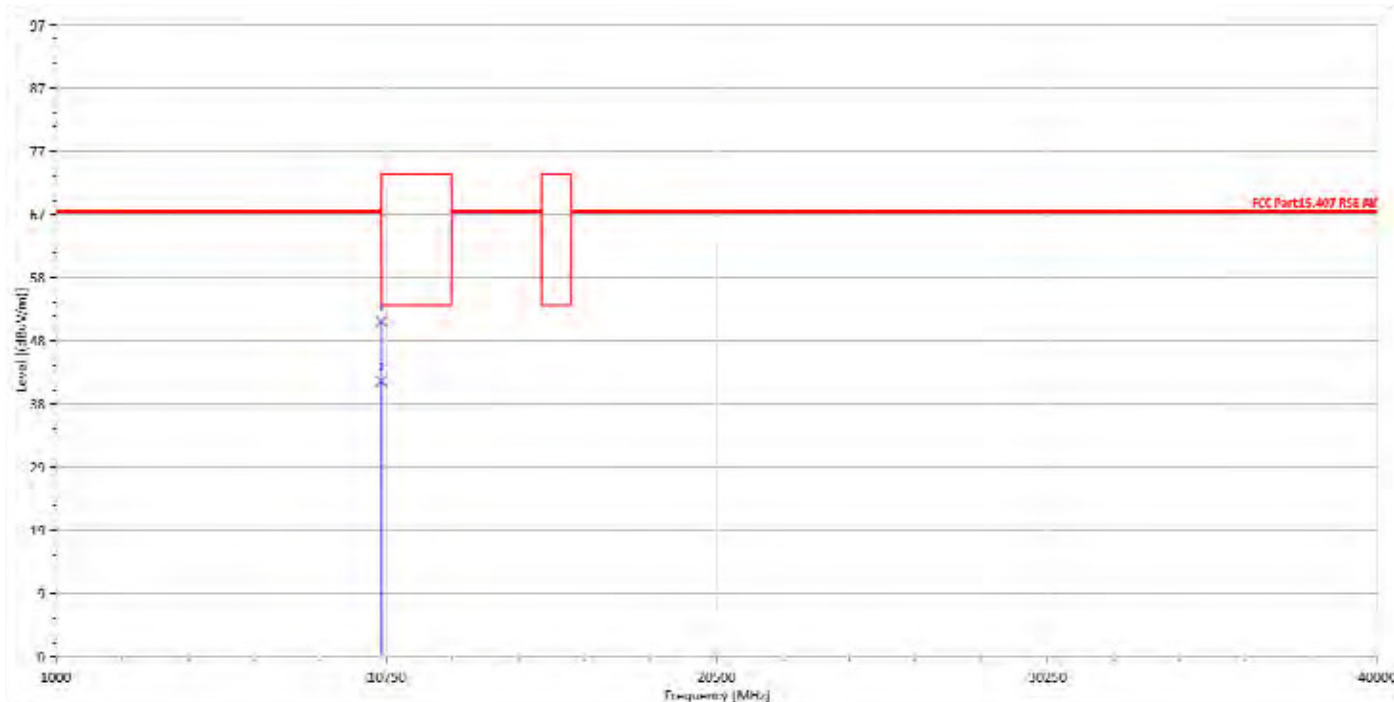
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	31.30	20.17	51.47	74	-22.53
10600.00	H	Average	22.06	20.17	42.23	54	-11.77

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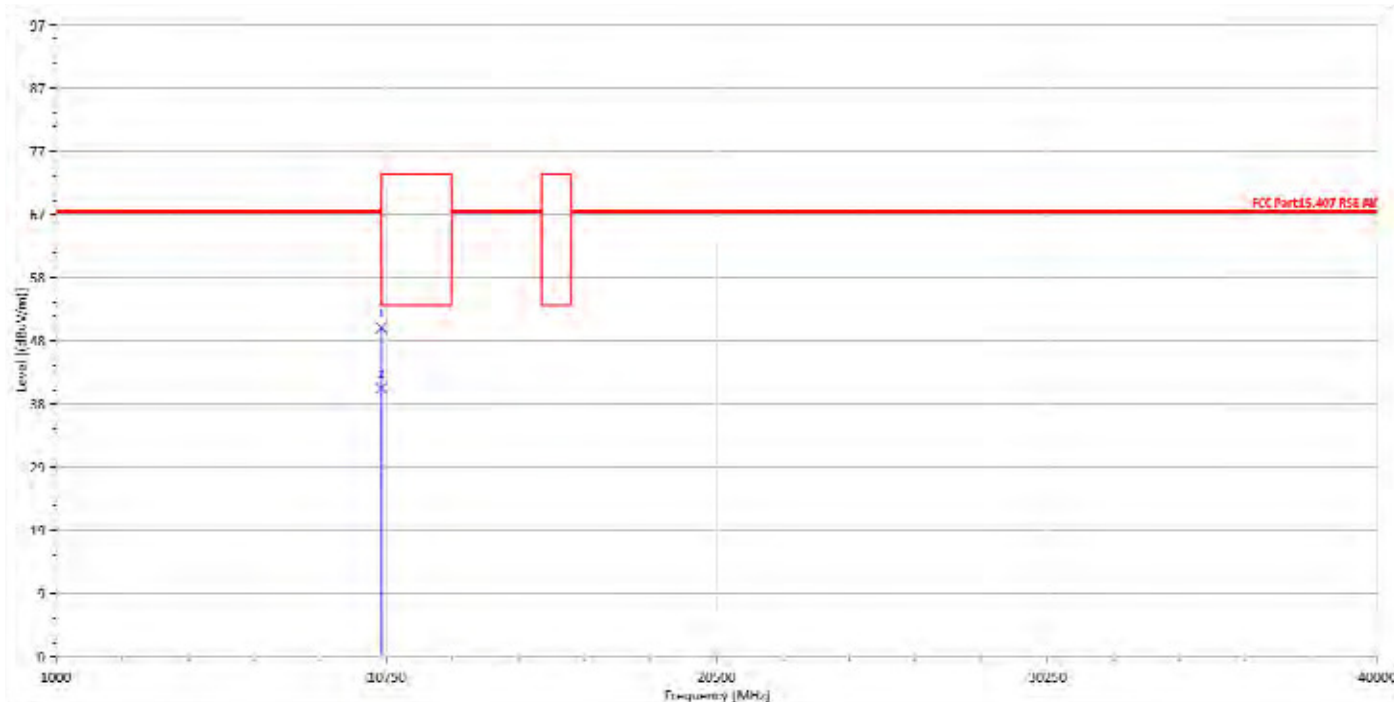
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Operation Mode : 802.11n20 Test Date : 2016/9/7
Fundamental Frequency : 5300 MHz Temp. / Humi. : 23.5 deg_C/56RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	30.36	20.17	50.53	74	-23.47
10600.00	H	Average	20.99	20.17	41.16	54	-12.84

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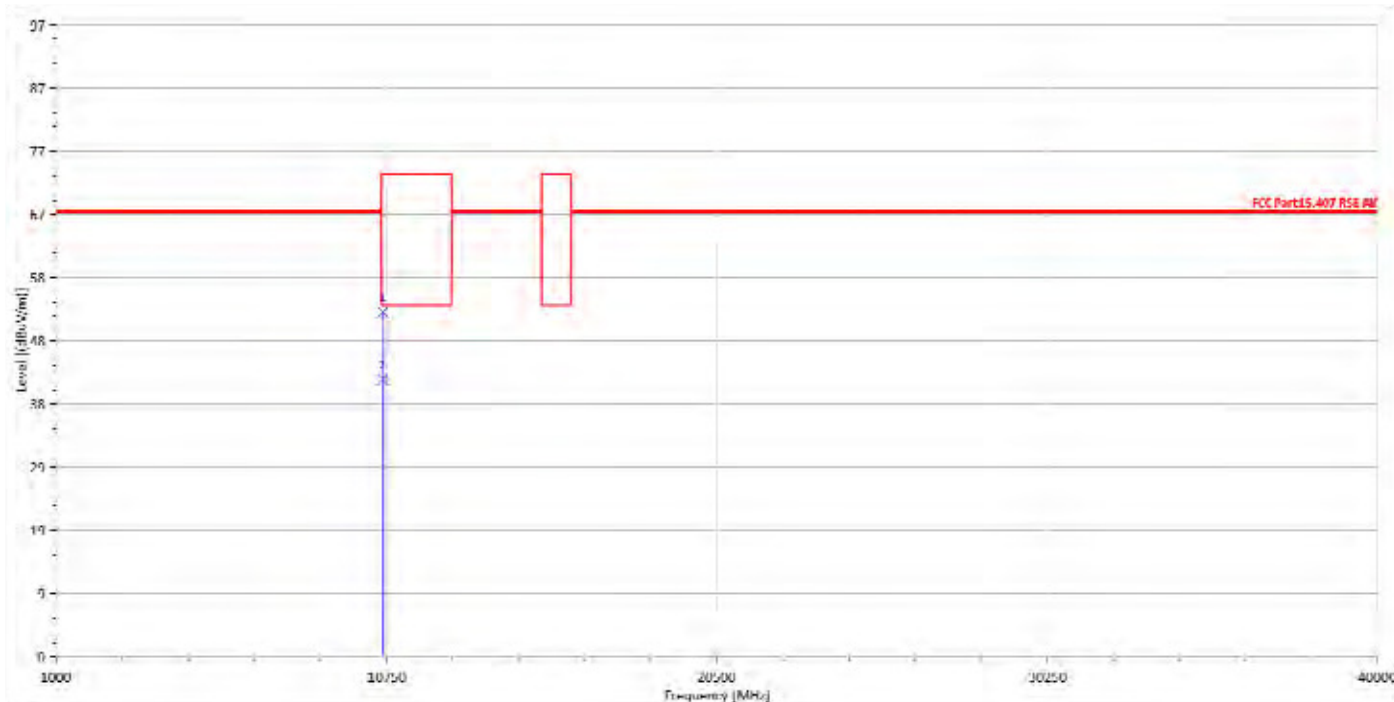
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	32.58	20.34	52.93	74	-21.07
10640.00	H	Average	22.14	20.34	42.48	54	-11.52

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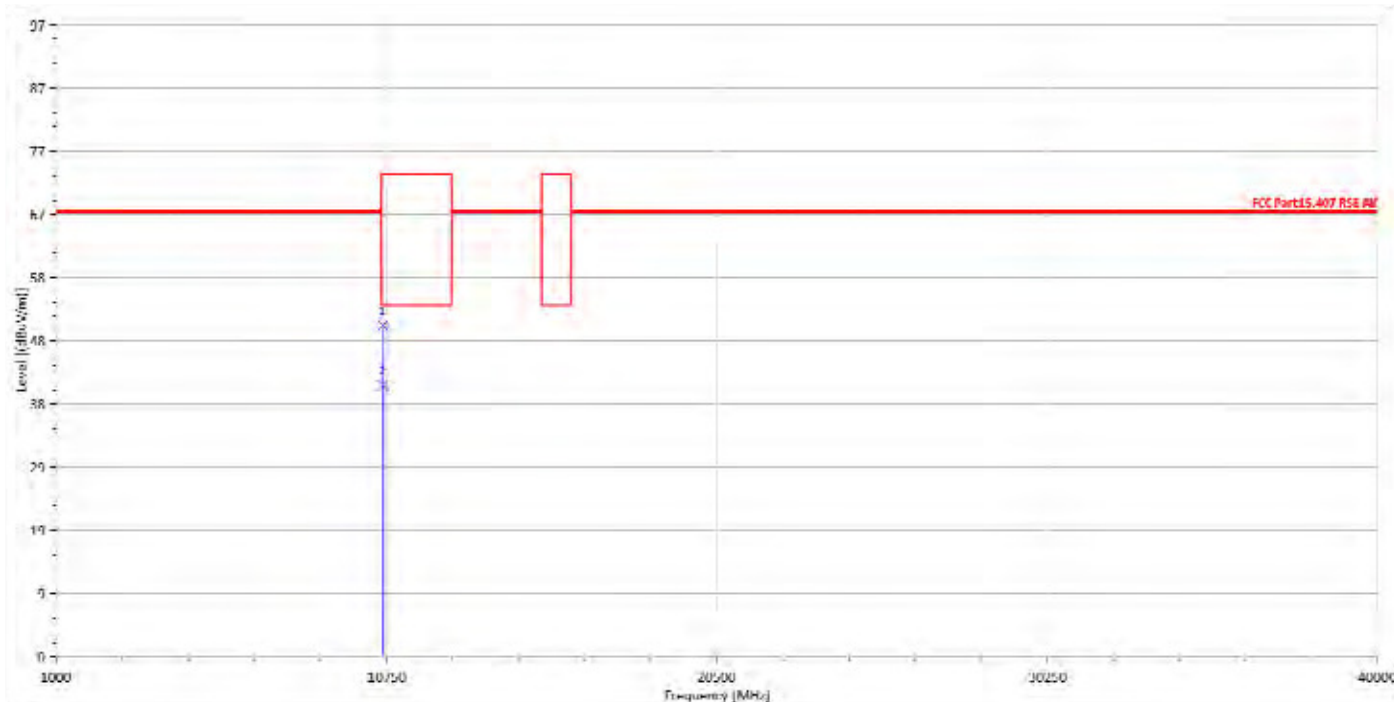
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 Fundamental Frequency : 5320 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	H	Peak	30.54	20.34	50.89	74	-23.11
10640.00	H	Average	21.23	20.34	41.57	54	-12.43

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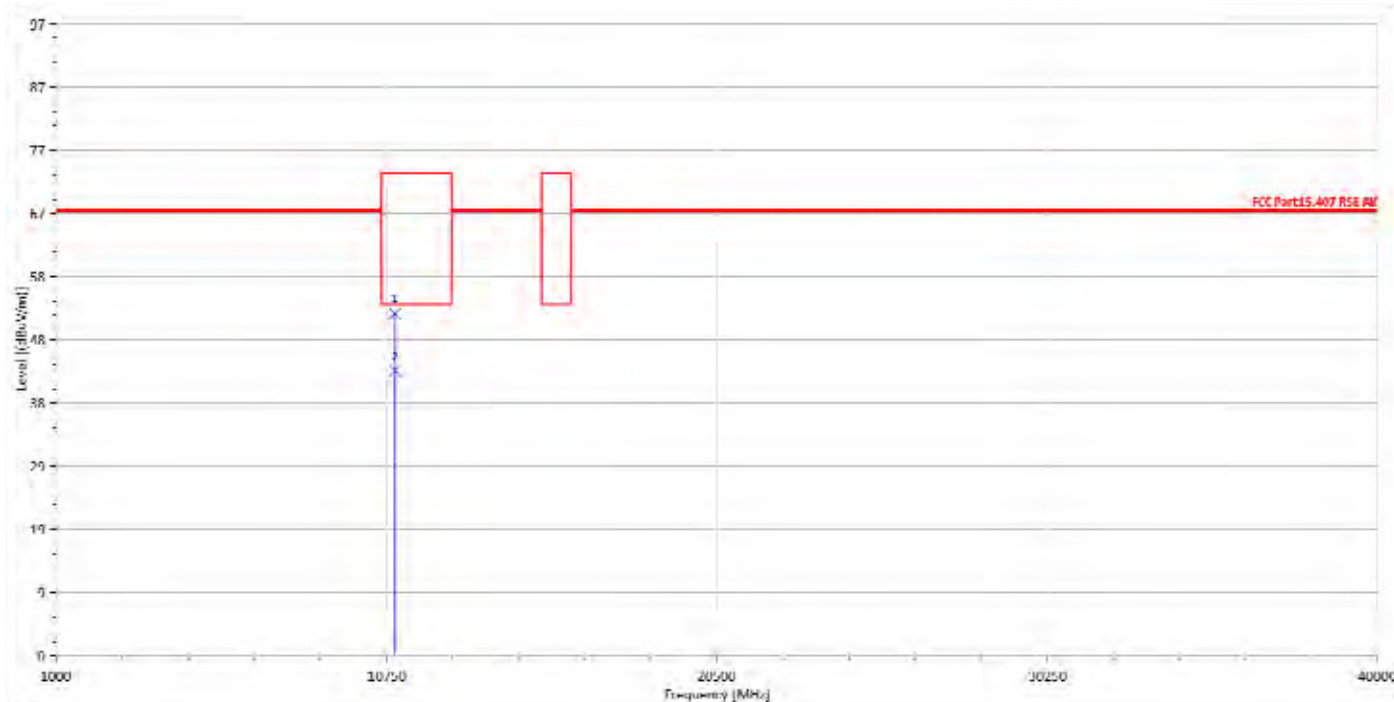
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2016/9/7
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11000.00	H	Peak	30.43	22.11	52.54	74	-21.46
11000.00	H	Average	21.62	22.11	43.73	54	-10.27

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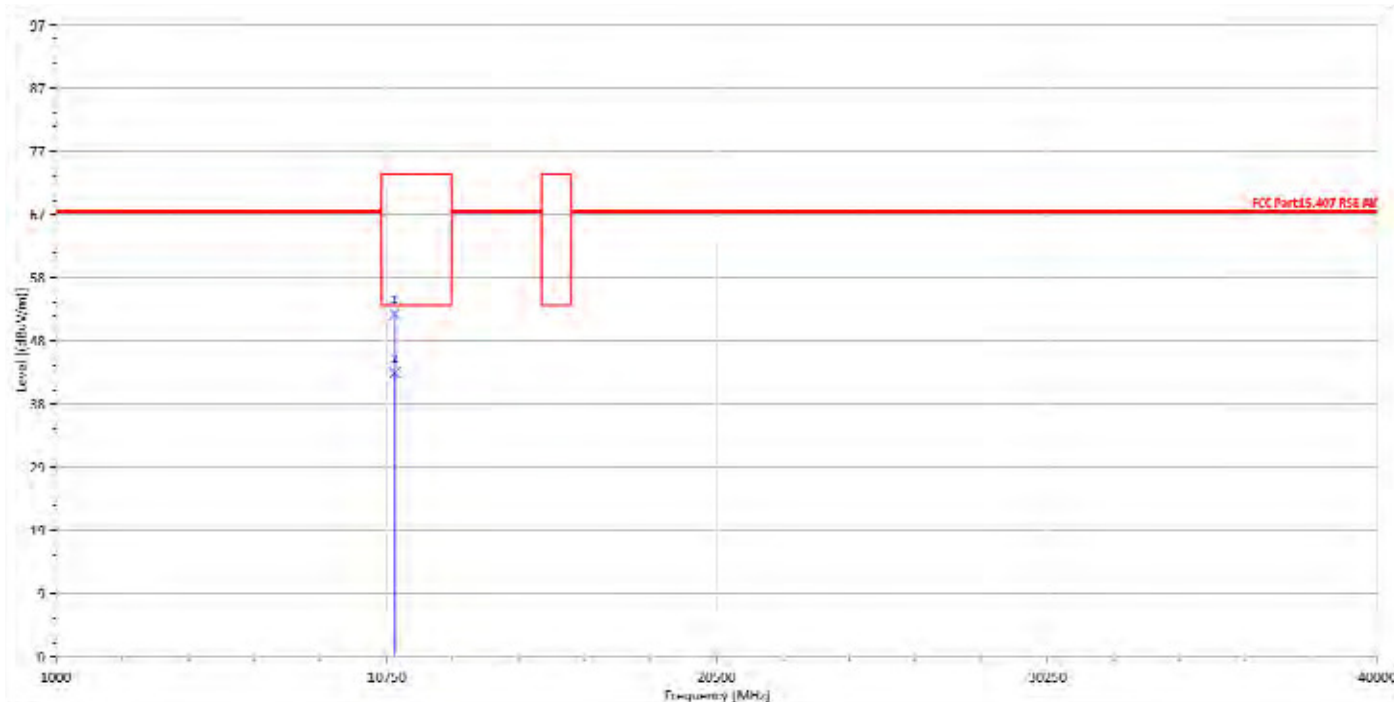
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	H	Peak	30.54	22.11	52.65	74	-21.35
11000.00	H	Average	21.45	22.11	43.56	54	-10.44

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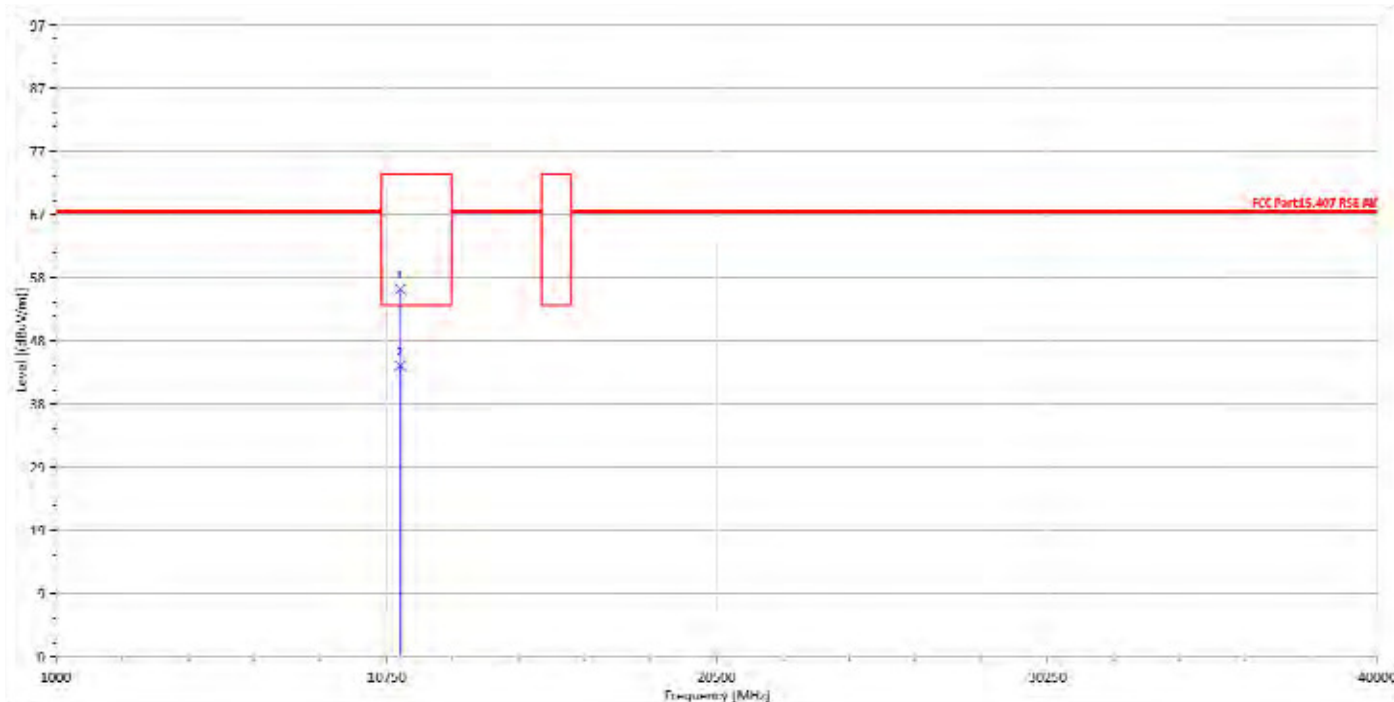
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	34.31	22.04	56.35	74	-17.65
11160.00	H	Average	22.54	22.04	44.58	54	-9.42

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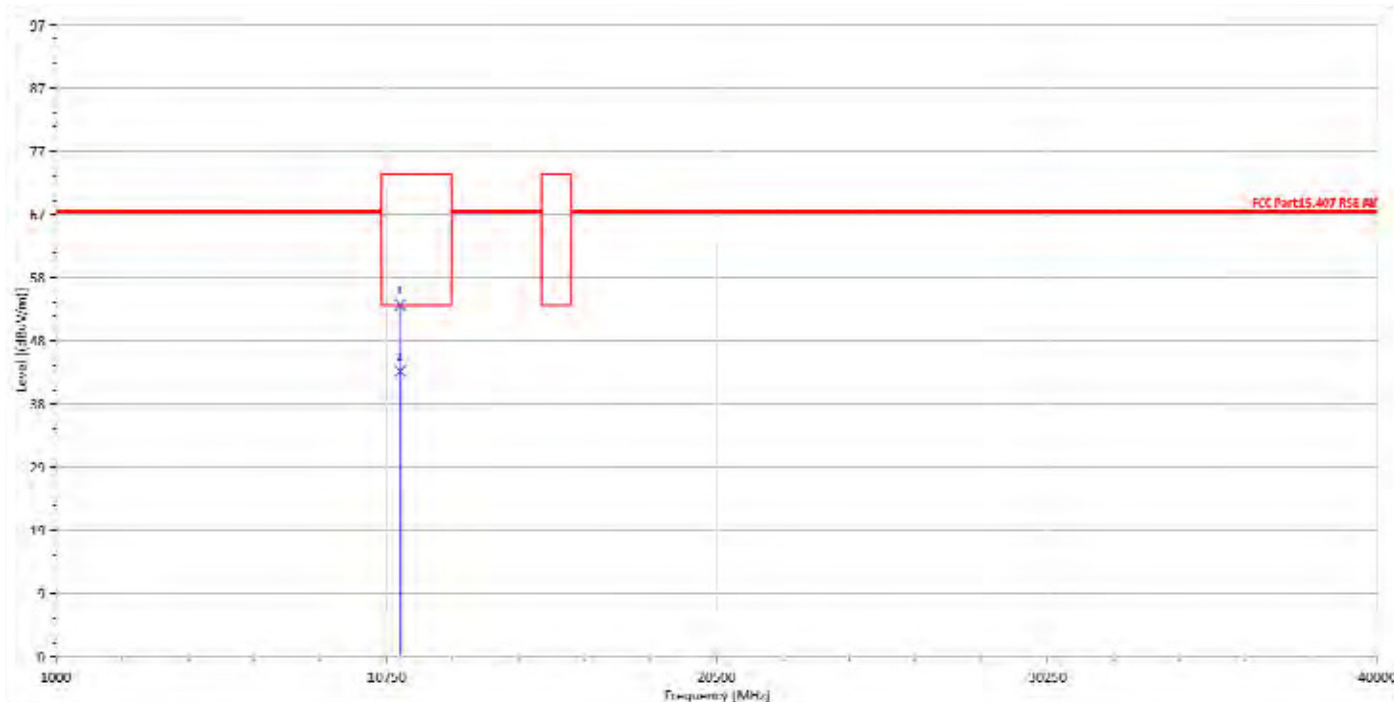
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 Fundamental Frequency : 5580 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	H	Peak	31.92	22.04	53.96	74	-20.04
11160.00	H	Average	21.74	22.04	43.78	54	-10.22

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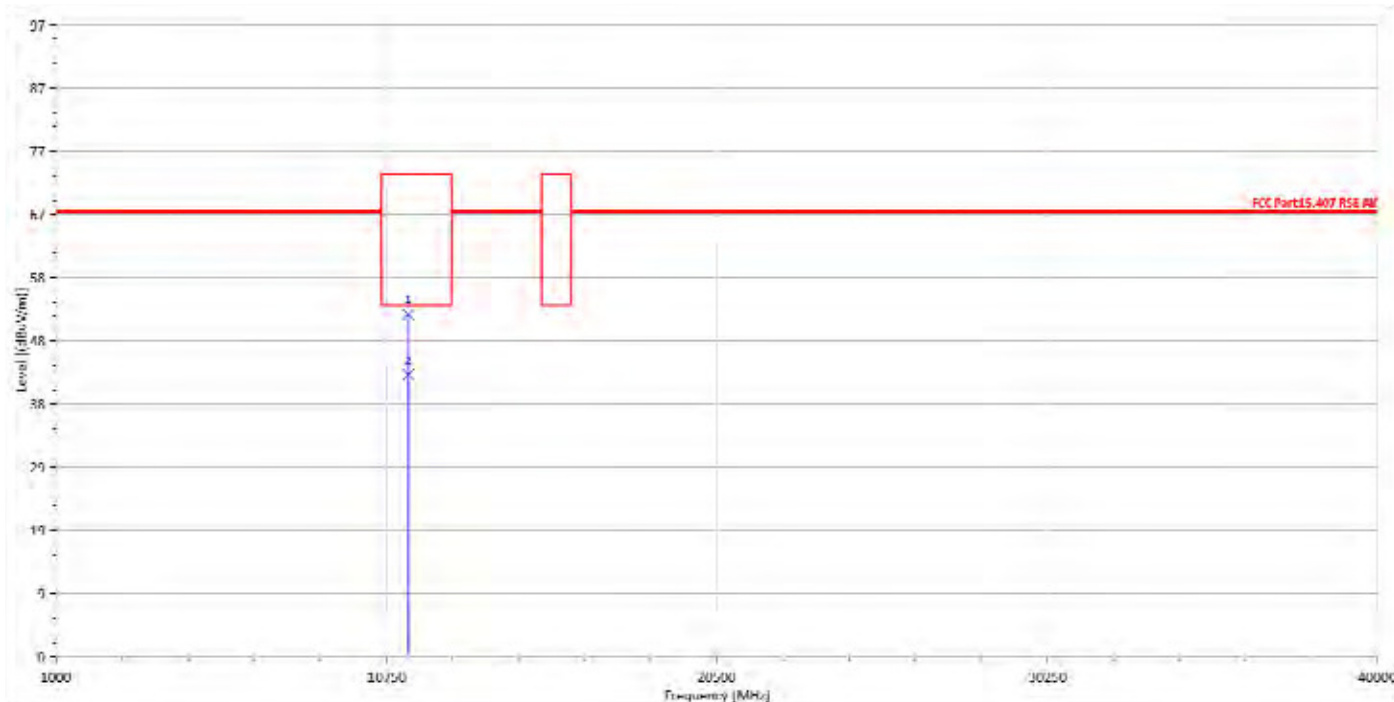
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	31.36	21.22	52.57	74	-21.43
11400.00	H	Average	22.03	21.22	43.25	54	-10.75

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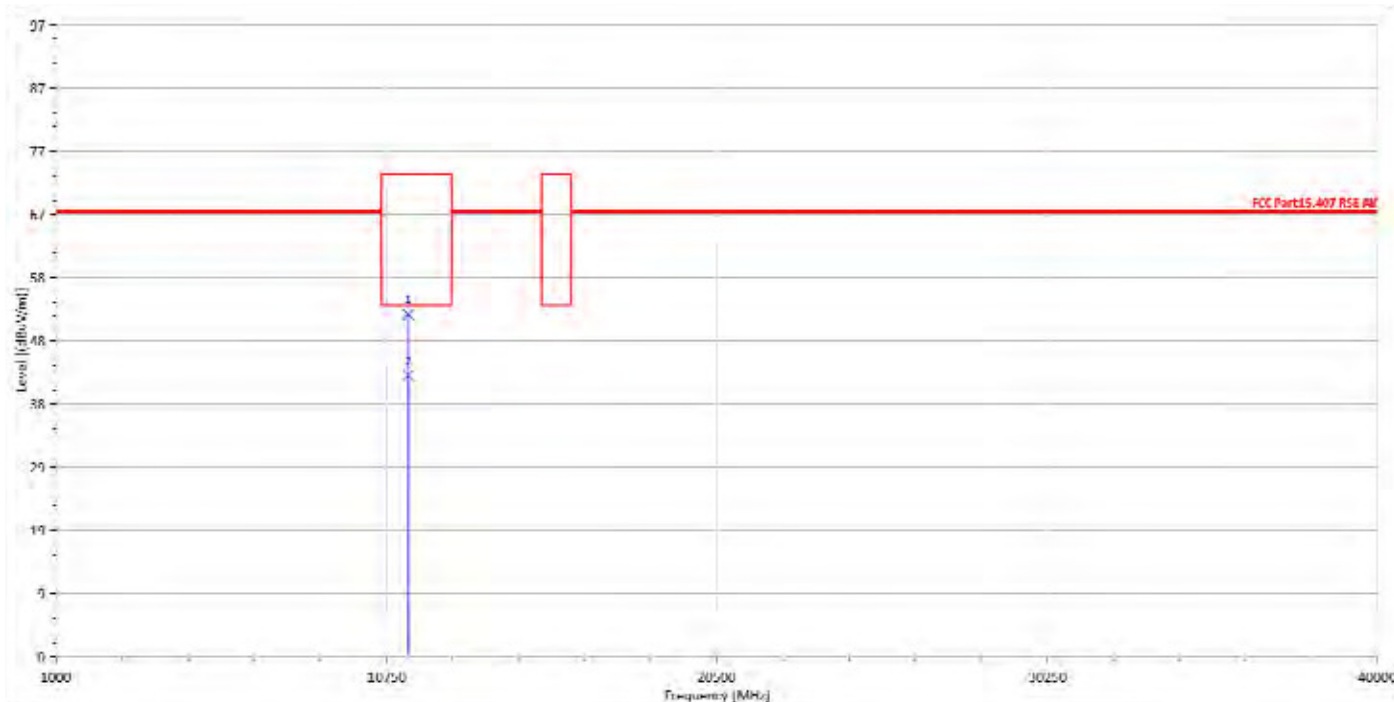
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 Fundamental Frequency : 5700 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	H	Peak	31.37	21.22	52.58	74	-21.42
11400.00	H	Average	21.91	21.22	43.13	54	-10.87

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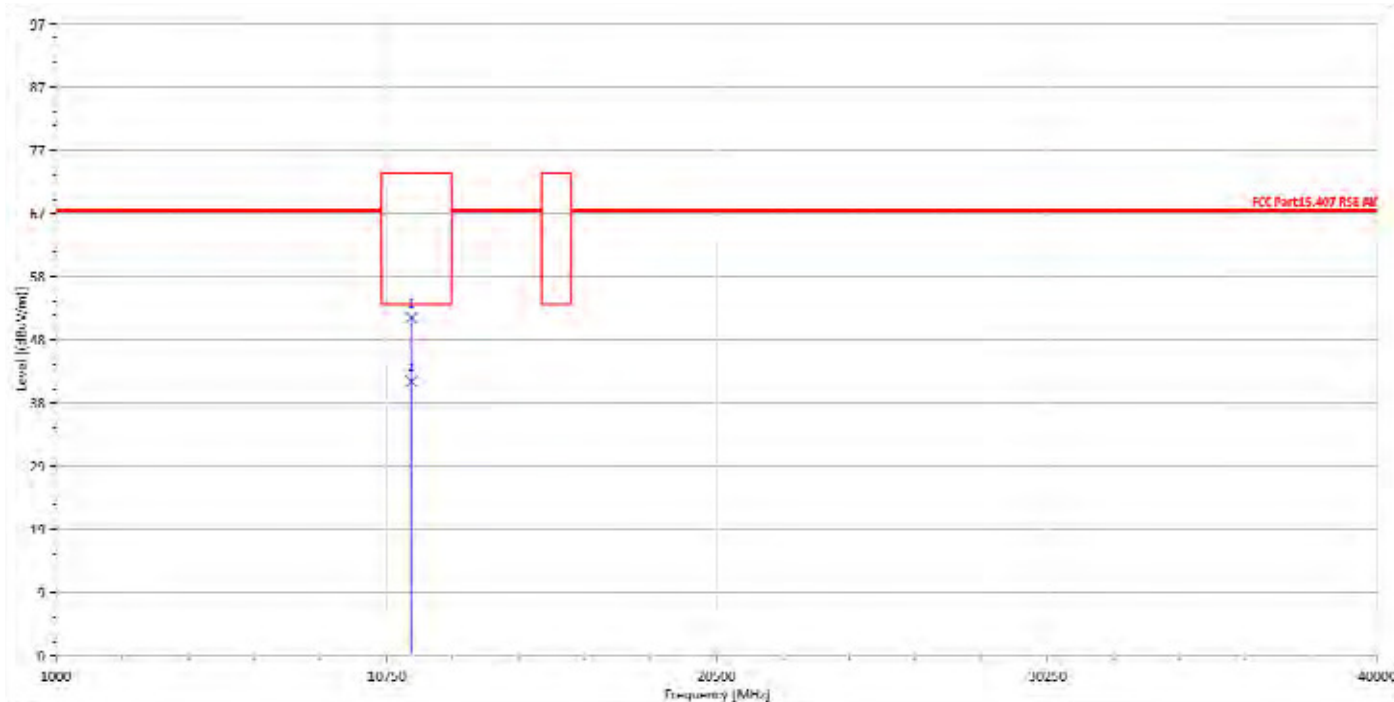
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	31.21	20.70	51.92	74	-22.08
11490.00	H	Average	21.32	20.70	42.02	54	-11.98

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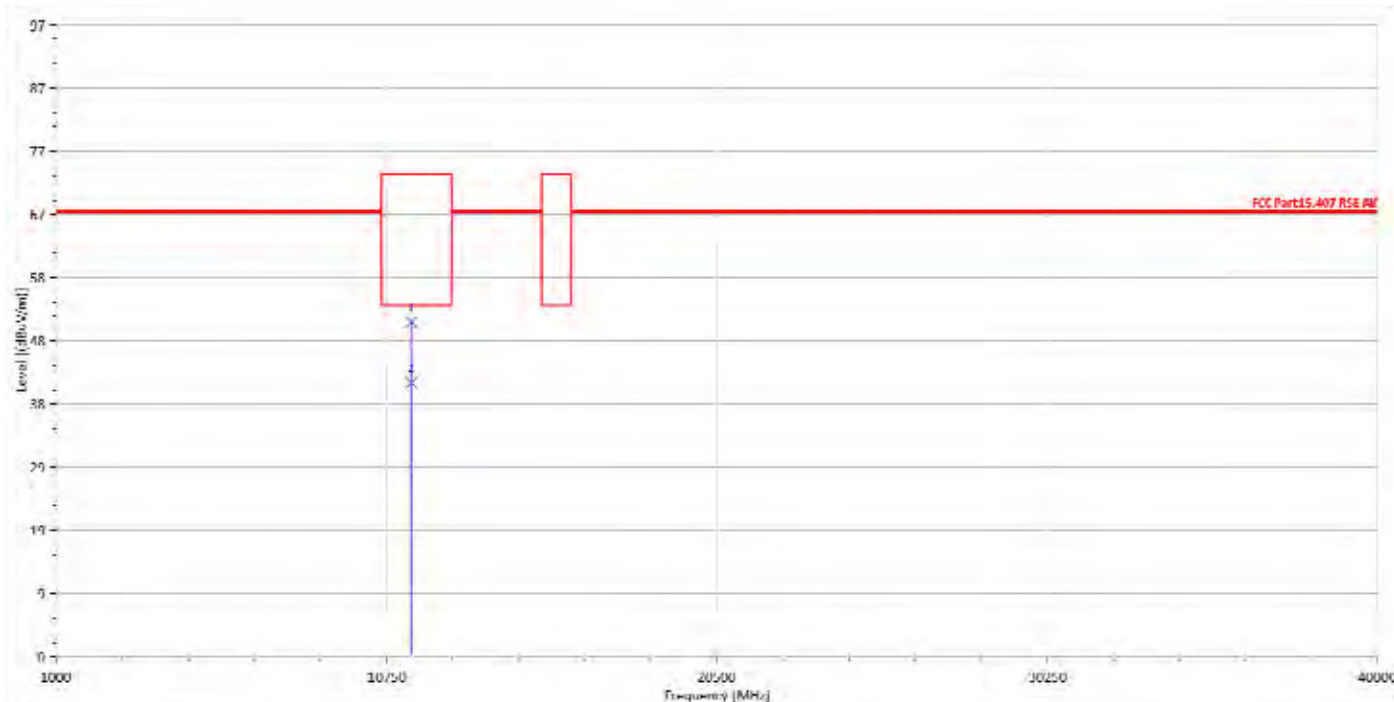
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	H	Peak	30.67	20.70	51.38	74	-22.62
11490.00	H	Average	21.27	20.70	41.97	54	-12.03

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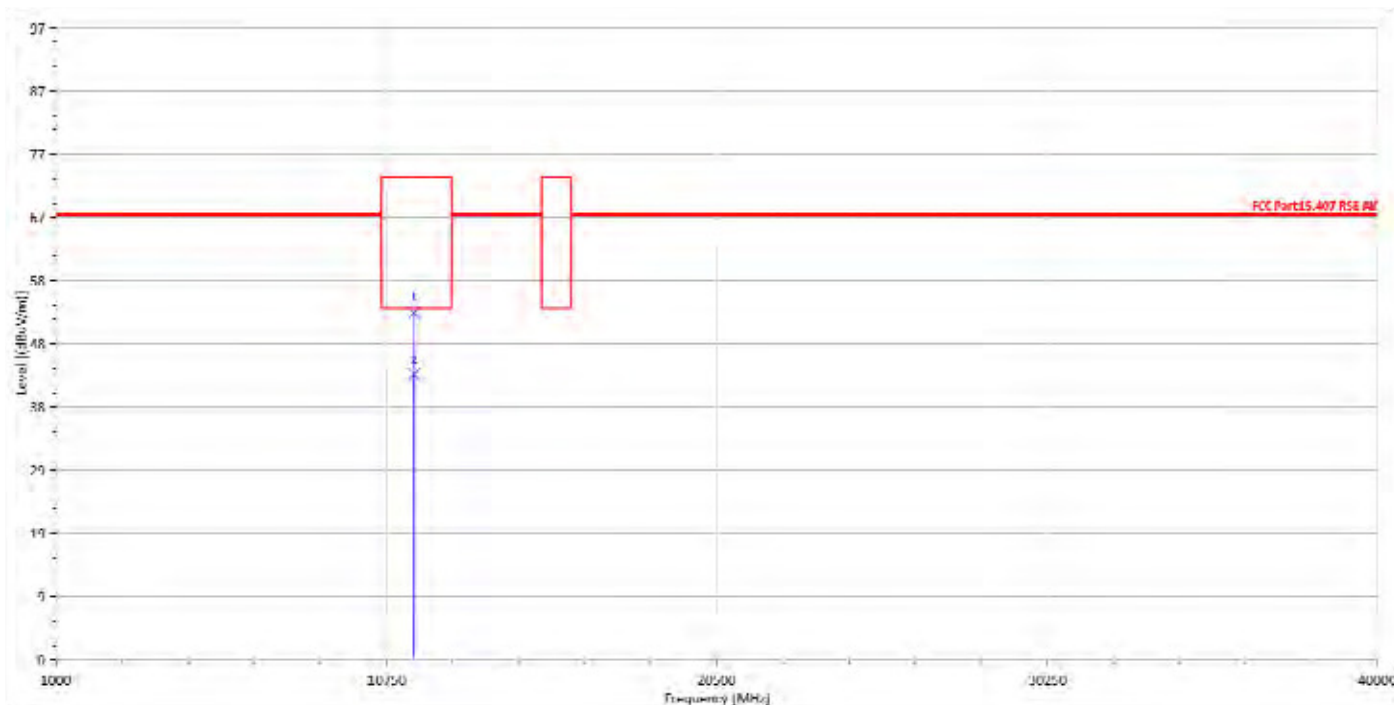
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	31.84	21.44	53.29	74	-20.71
11570.00	H	Average	22.36	21.44	43.80	54	-10.20

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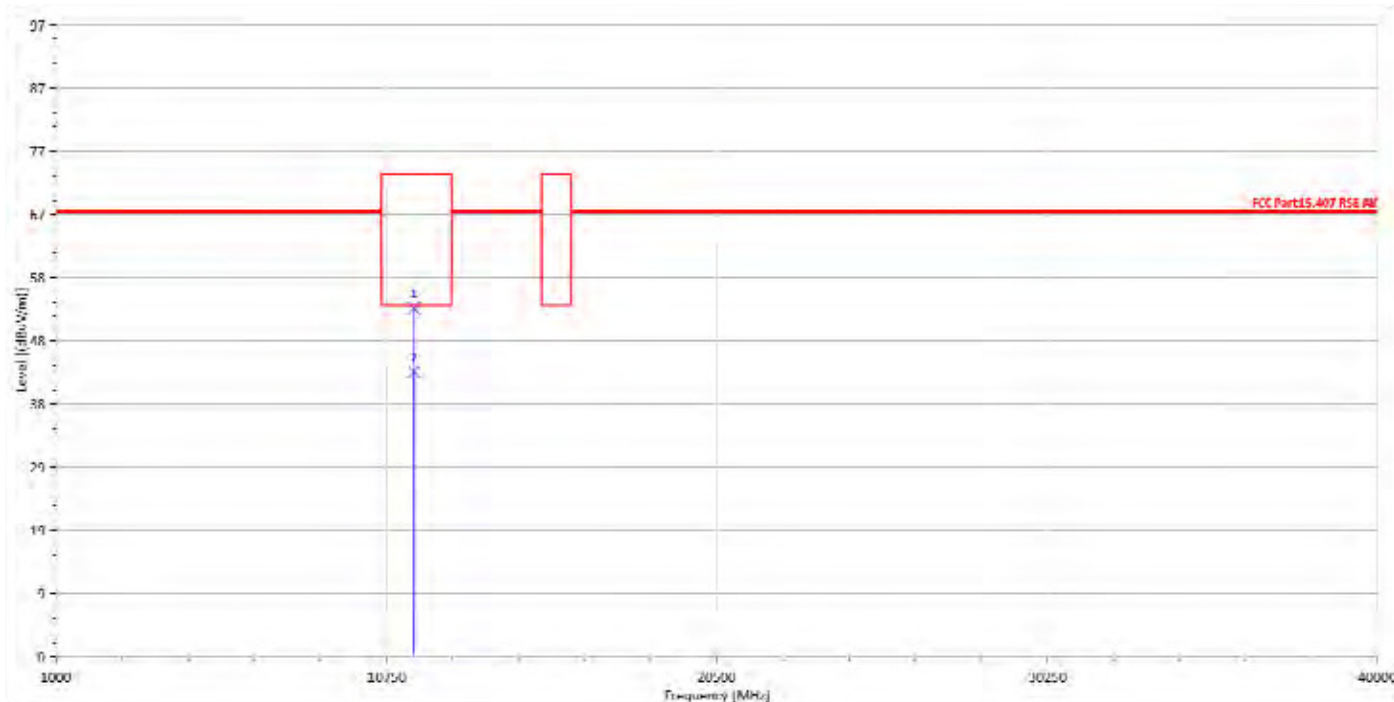
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	H	Peak	32.07	21.44	53.51	74	-20.49
11570.00	H	Average	22.21	21.44	43.65	54	-10.35

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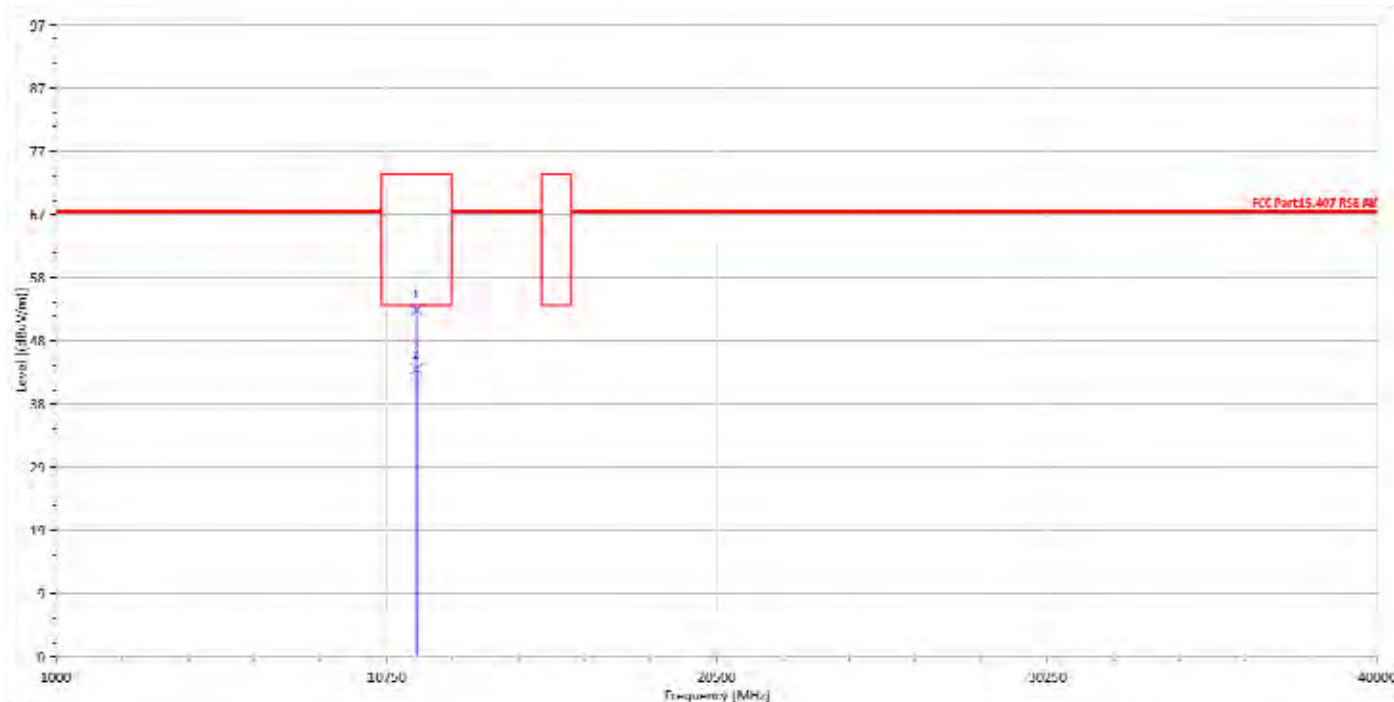
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Operation Mode : 802.11n20 Test Date : 2016/9/7
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	31.27	22.02	53.29	74	-20.71
11650.00	H	Average	22.07	22.02	44.09	54	-9.91

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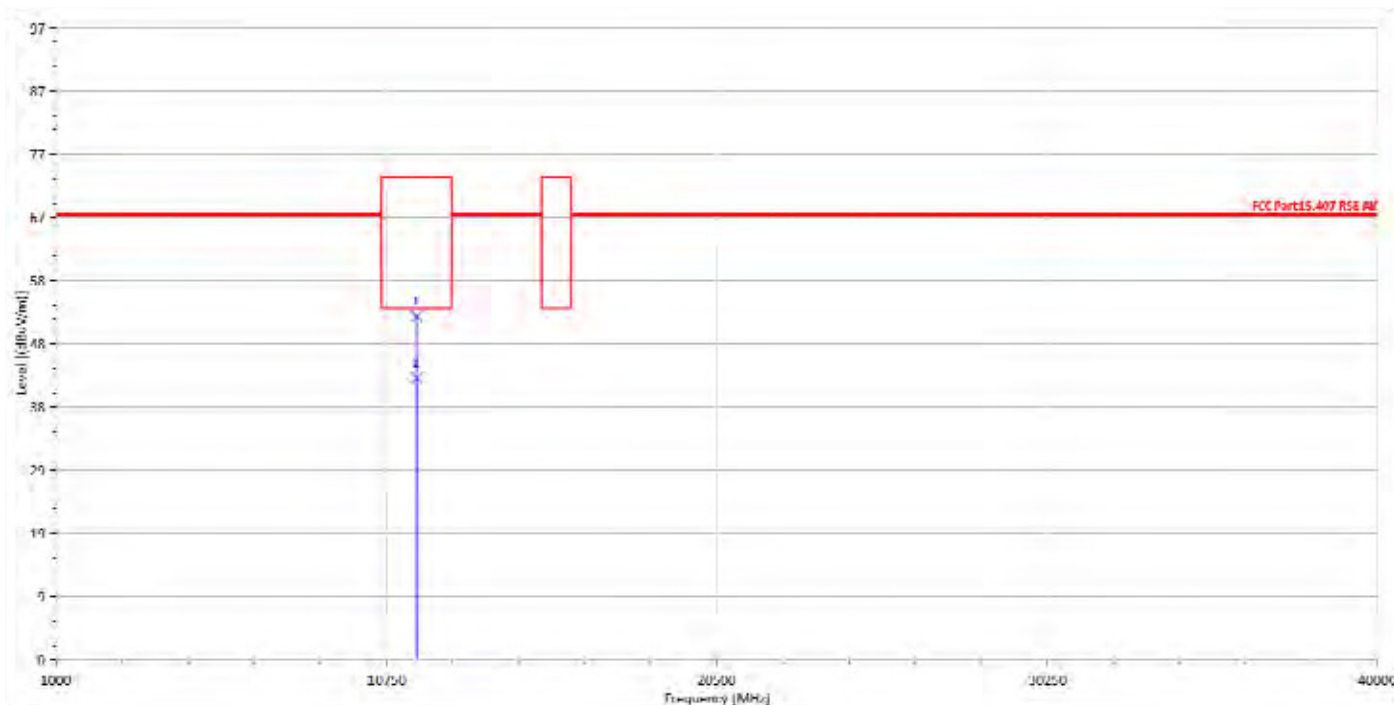
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 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	H	Peak	30.71	22.02	52.74	74	-21.26
11650.00	H	Average	21.17	22.02	43.19	54	-10.81

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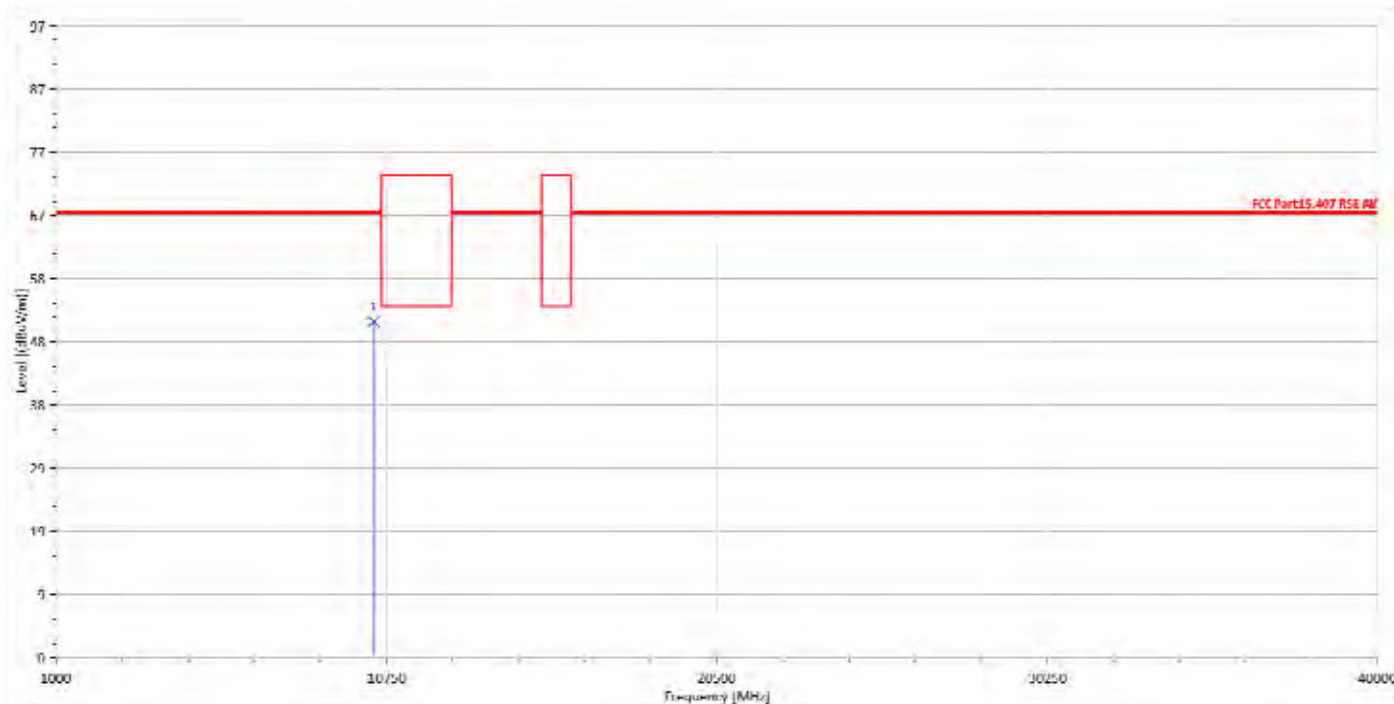
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2016/9/7
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
10380.00	H	Peak	30.67	20.95	51.62	68.3	-16.68

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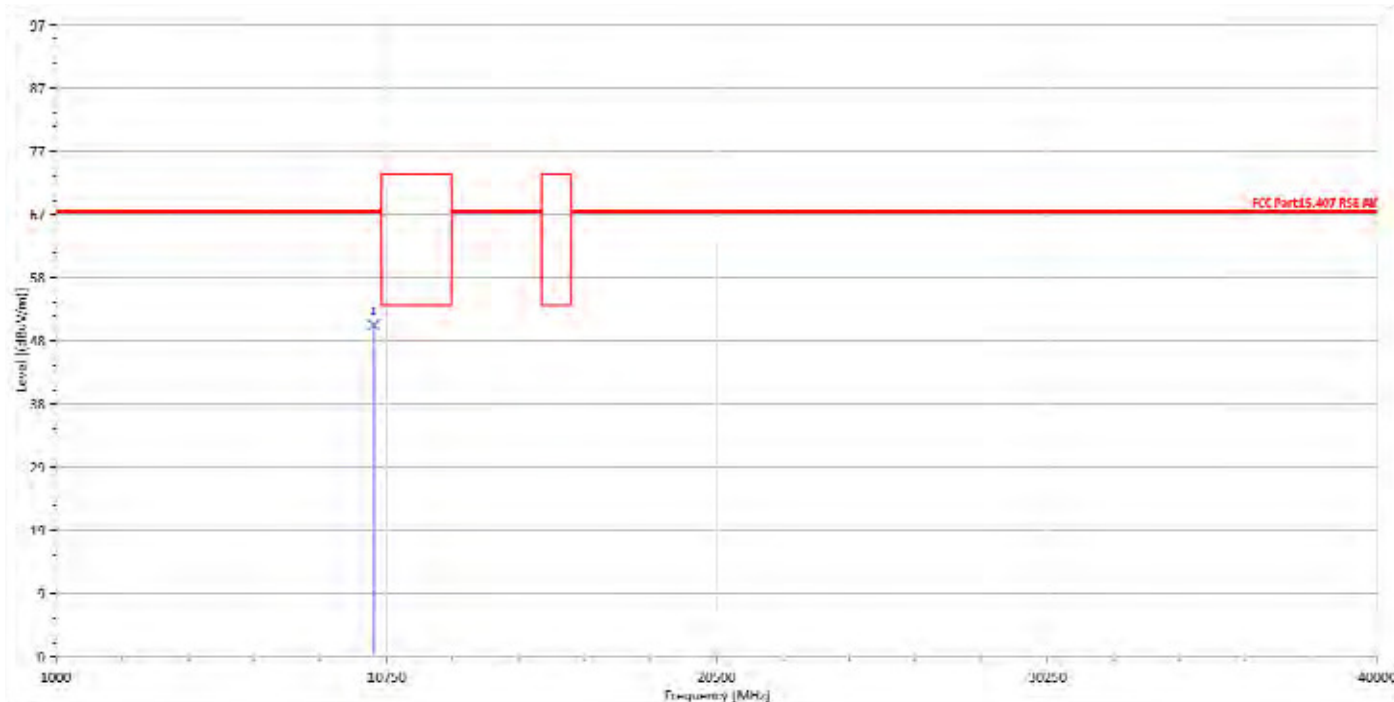
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	H	Peak	29.99	20.95	50.95	68.3	-17.36

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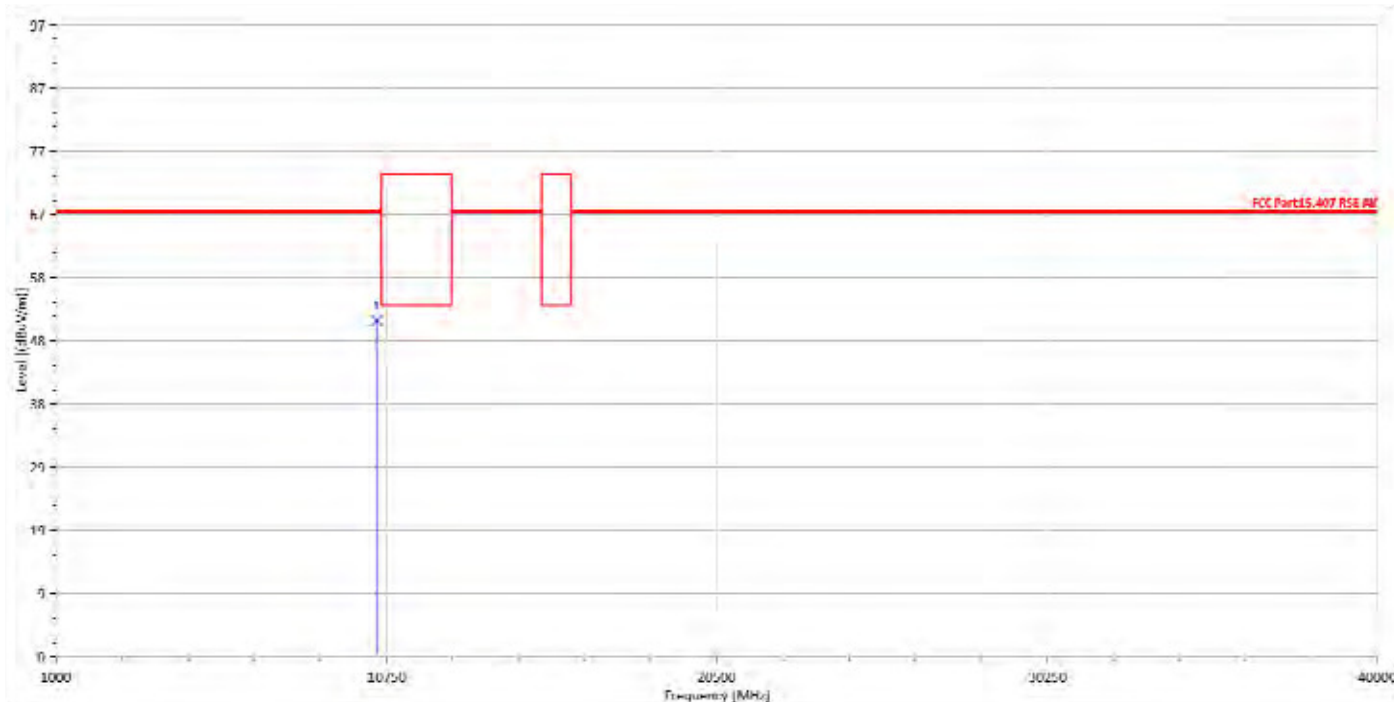
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	H	Peak	30.69	20.95	51.65	68.3	-16.65

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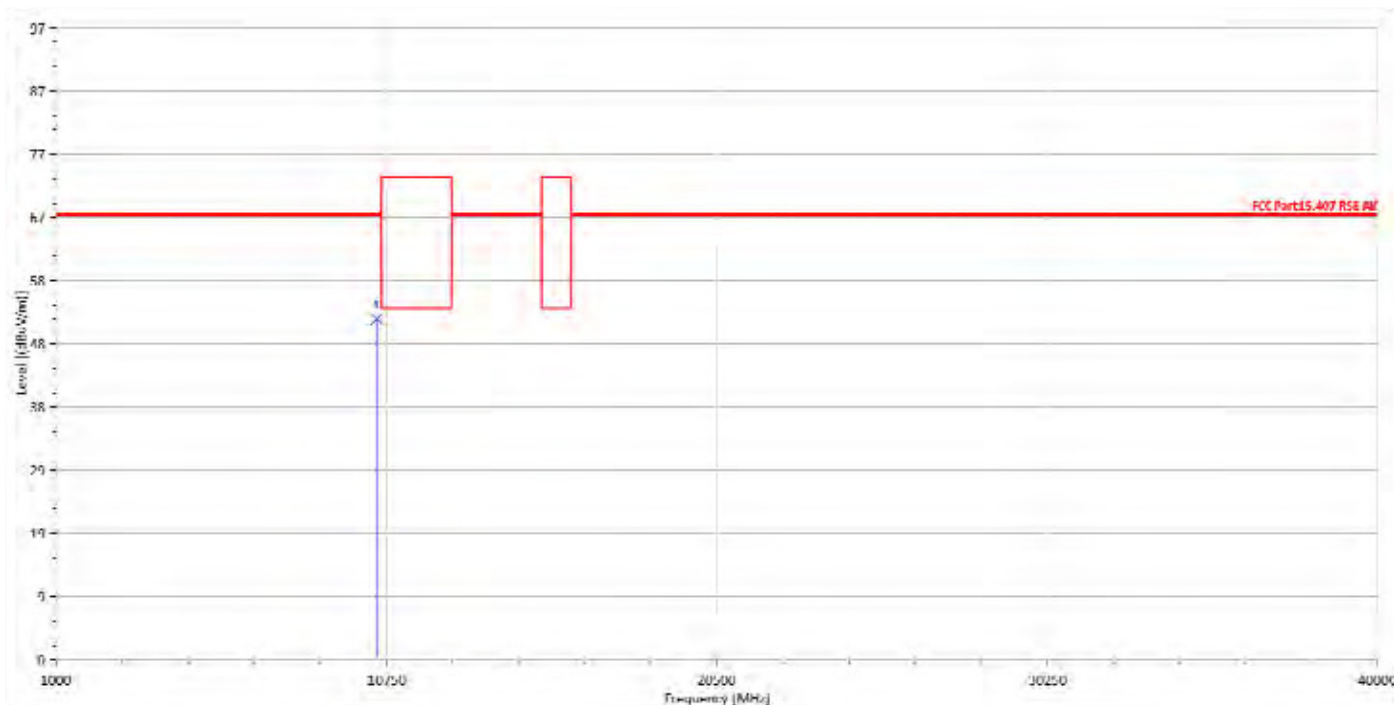
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Operation Mode : 802.11n40 Test Date : 2016/9/7
Fundamental Frequency : 5230 MHz Temp. / Humi. : 23.5 deg_C/56RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	31.37	20.95	52.33	68.3	-15.97

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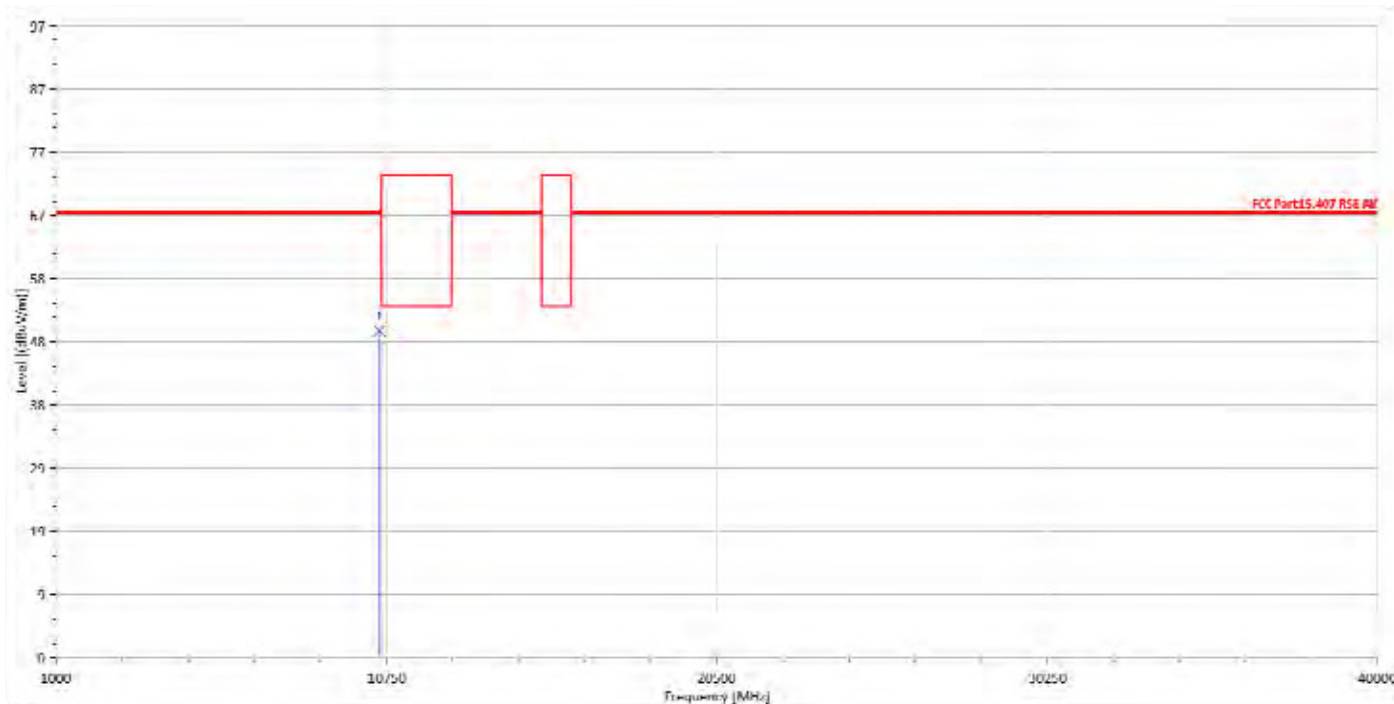
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2016/9/7
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	H	Peak	30.14	20.06	50.20	68.3	-18.10

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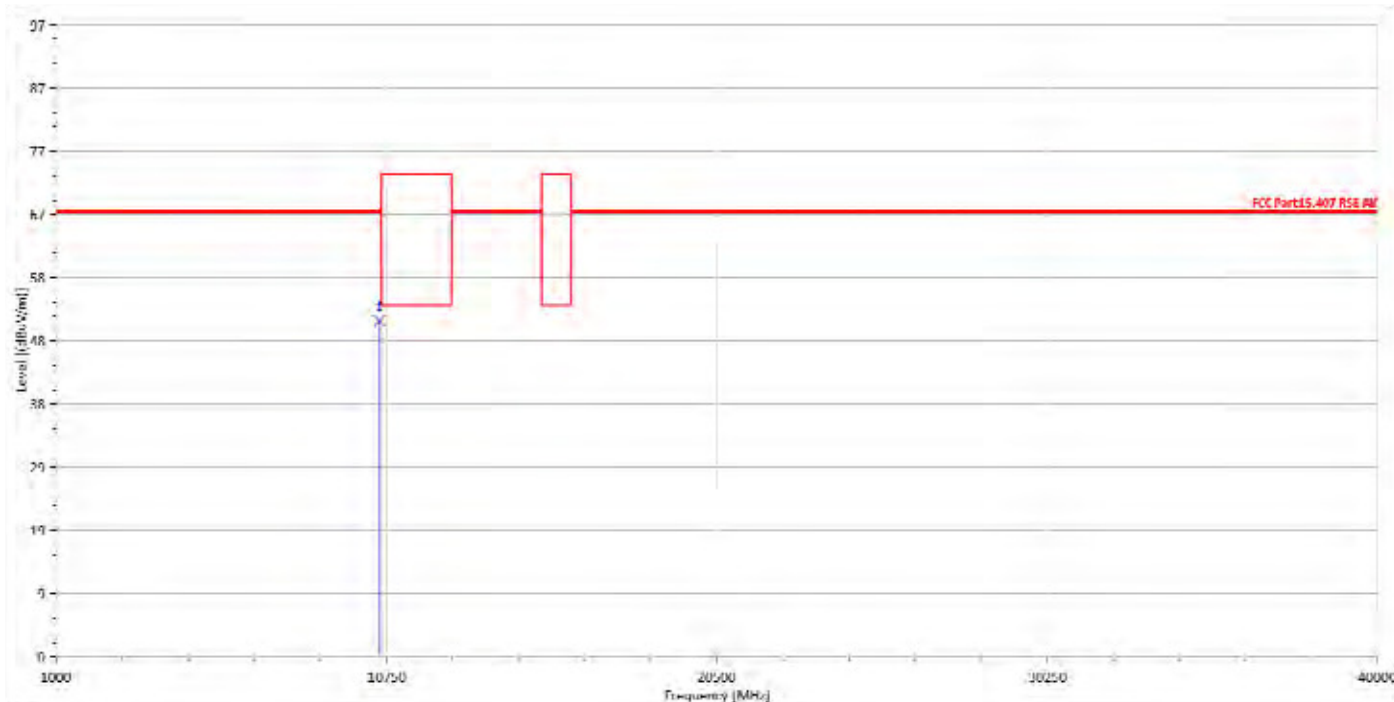
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	H	Peak	31.51	20.06	51.57	68.3	-16.73

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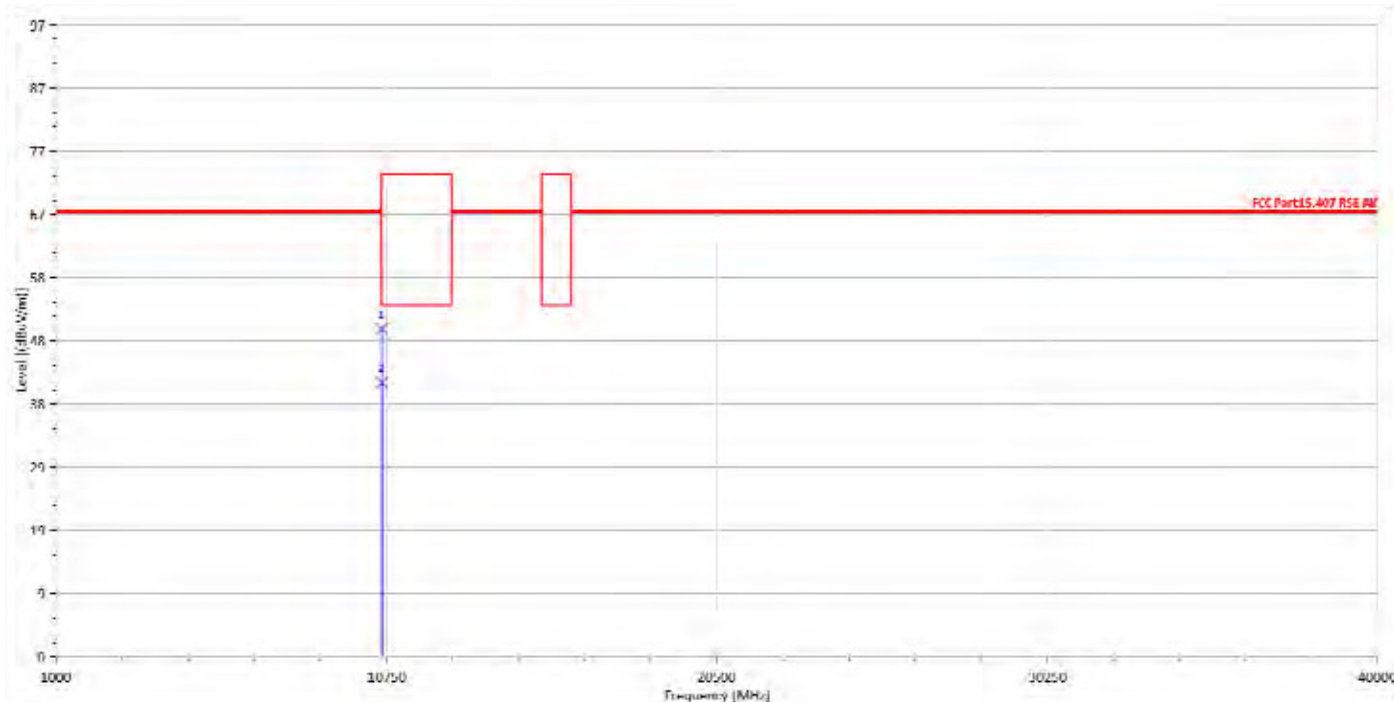
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	30.06	20.29	50.35	74	-23.65
10620.00	H	Average	21.71	20.29	42.00	54	-12.00

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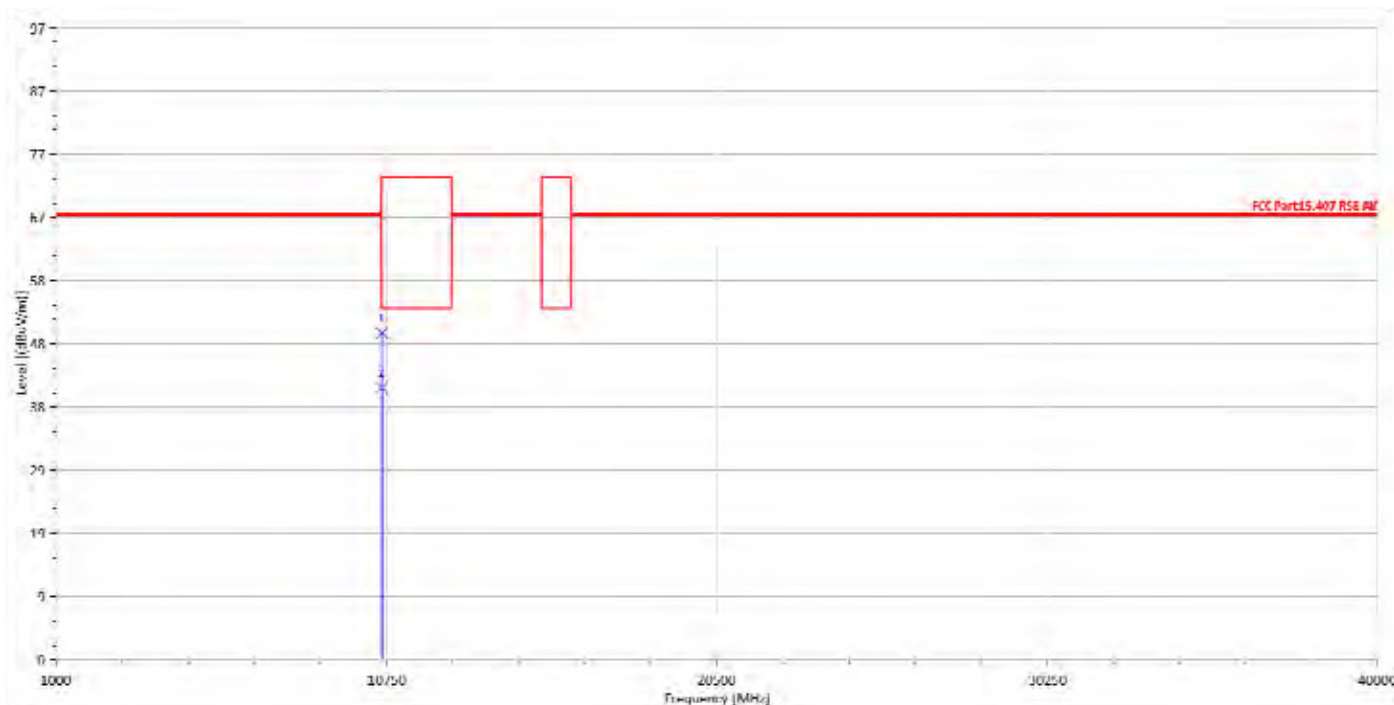
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	29.90	20.29	50.19	74	-23.81
10620.00	H	Average	21.38	20.29	41.67	54	-12.33

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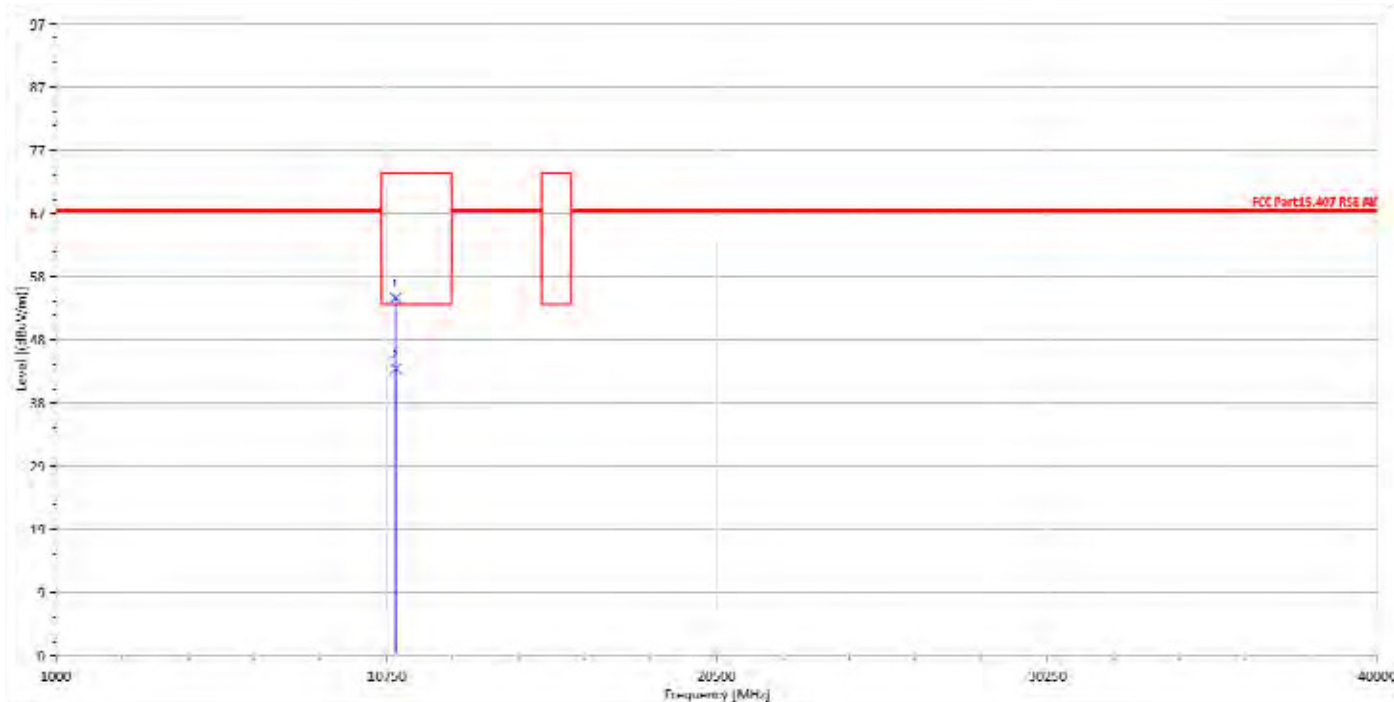
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2016/9/7
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11020.00	H	Peak	31.92	22.90	54.82	74	-19.18
11020.00	H	Average	21.13	22.90	44.03	54	-9.97

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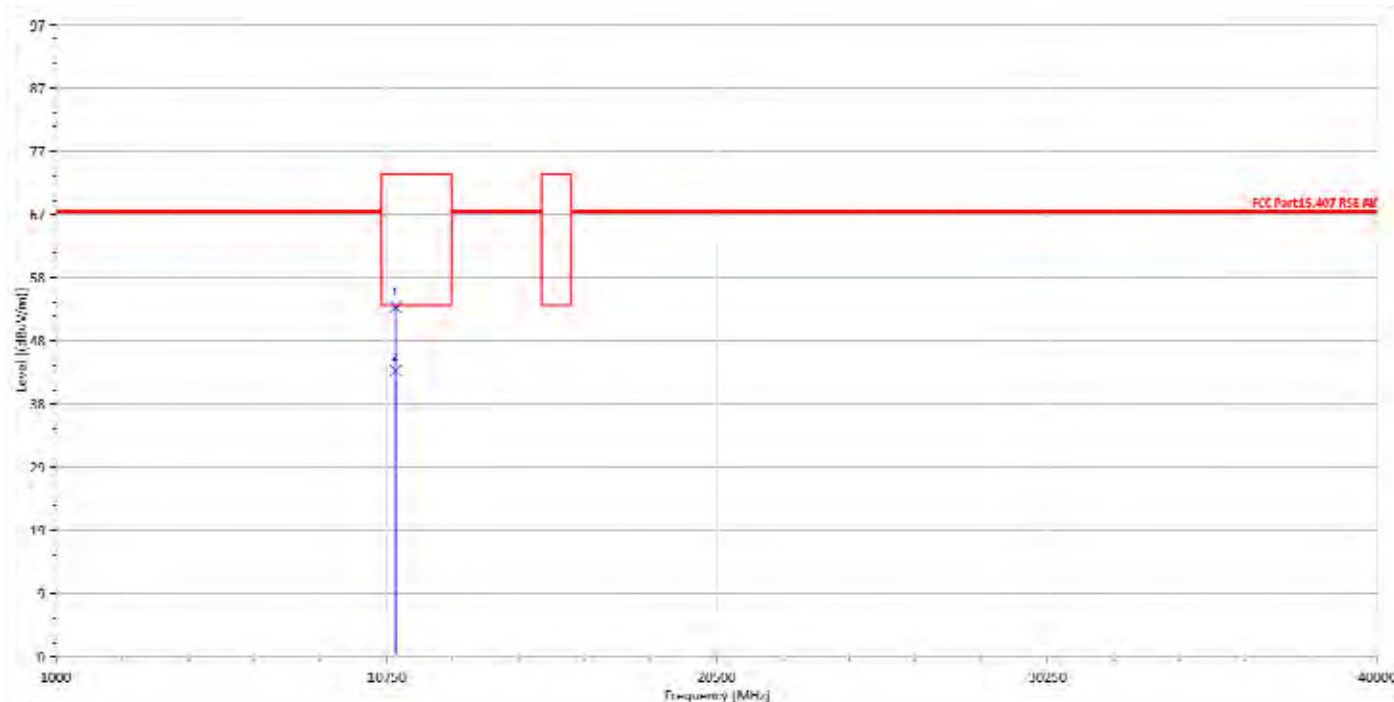
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	H	Peak	30.79	22.90	53.69	74	-20.31
11020.00	H	Average	20.99	22.90	43.89	54	-10.11

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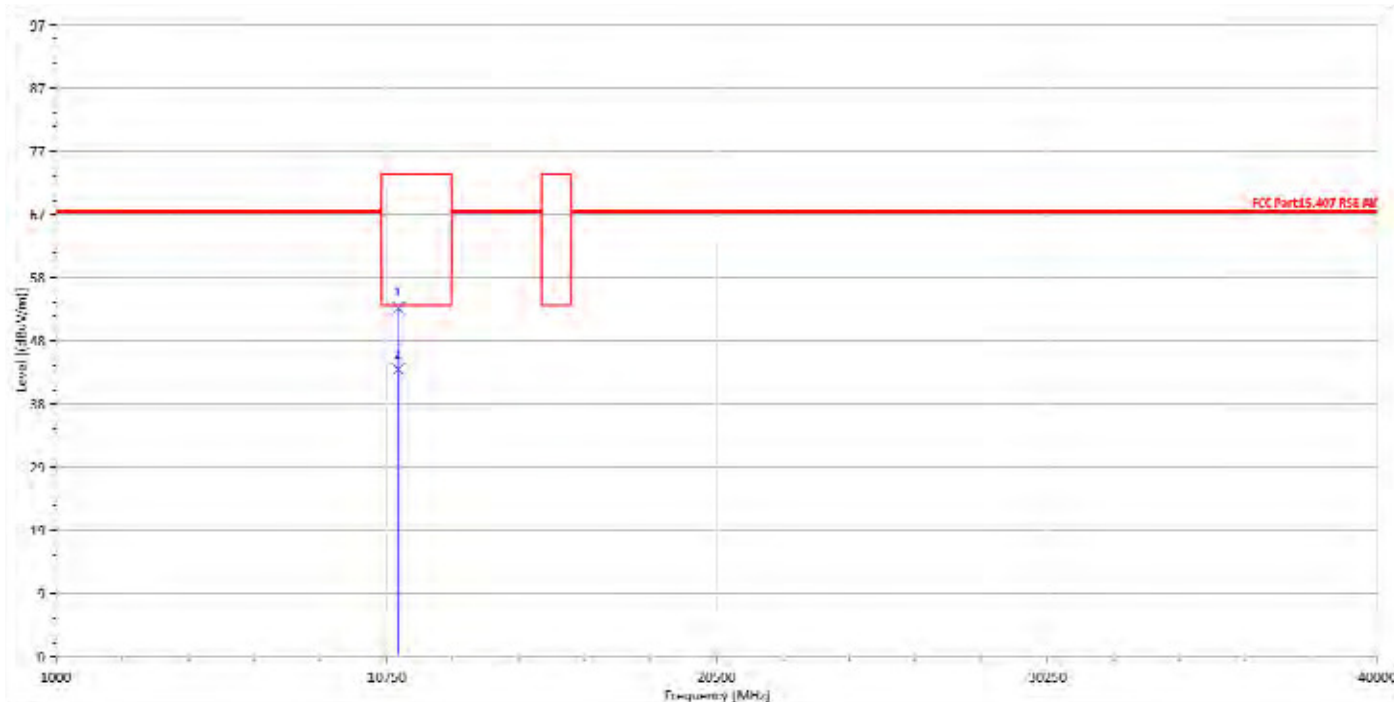
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	30.39	23.16	53.56	74	-20.44
11100.00	H	Average	20.91	23.16	44.07	54	-9.93

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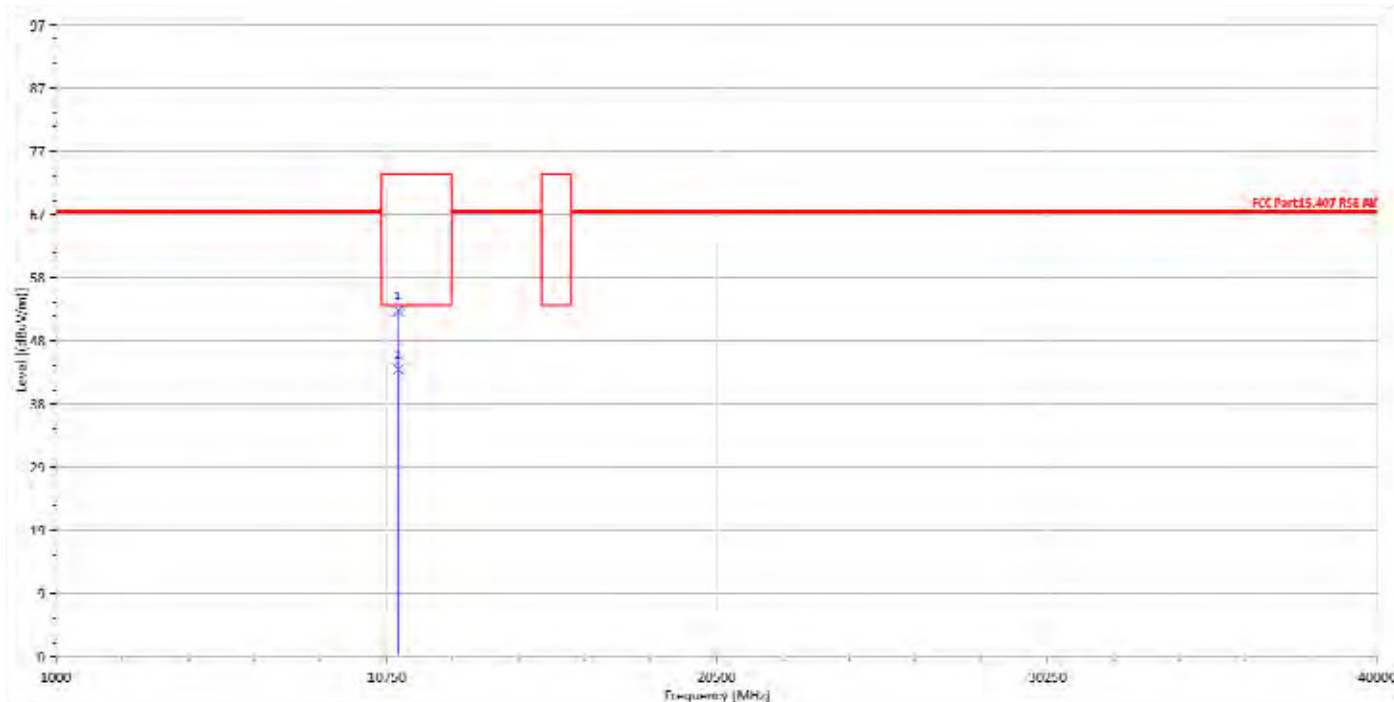
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Operation Mode : 802.11n40 Test Date : 2016/9/7
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 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	29.99	23.16	53.15	74	-20.85
11100.00	H	Average	20.92	23.16	44.08	54	-9.92

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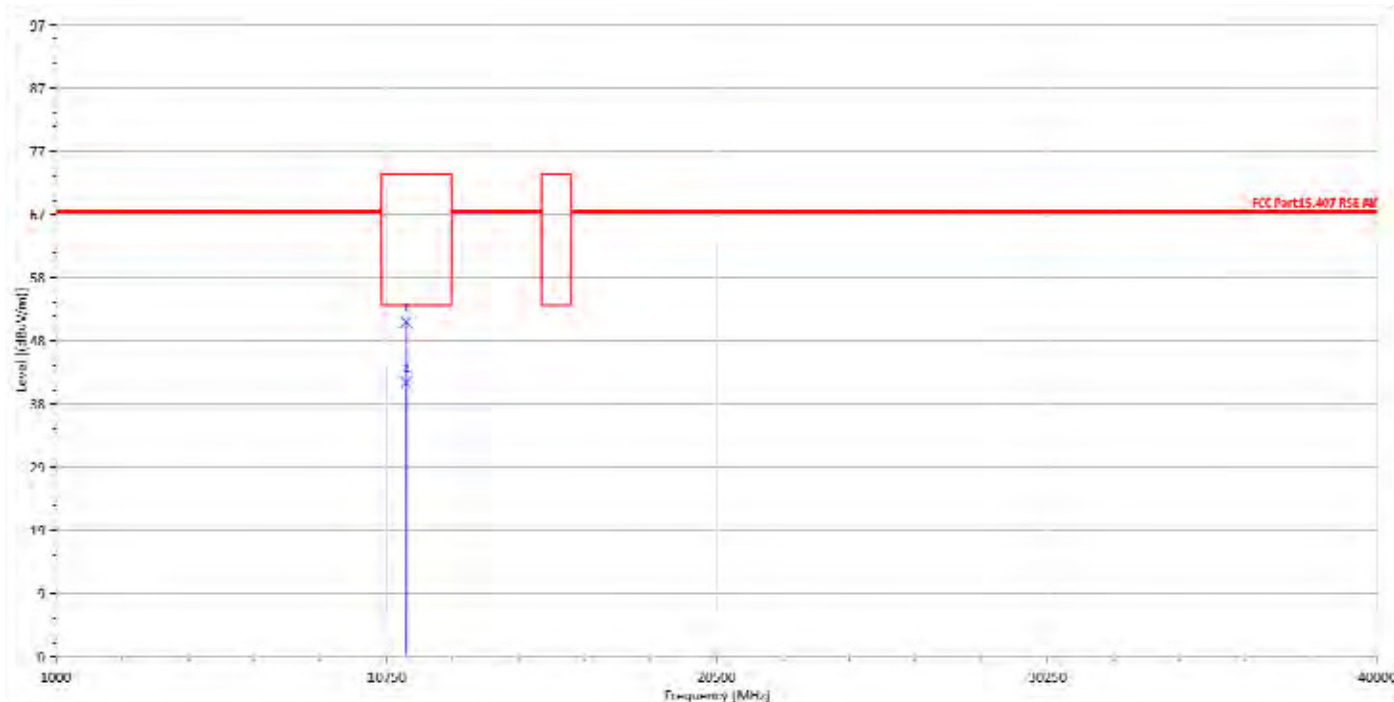
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	30.44	20.97	51.41	74	-22.59
11340.00	H	Average	21.06	20.97	42.03	54	-11.97

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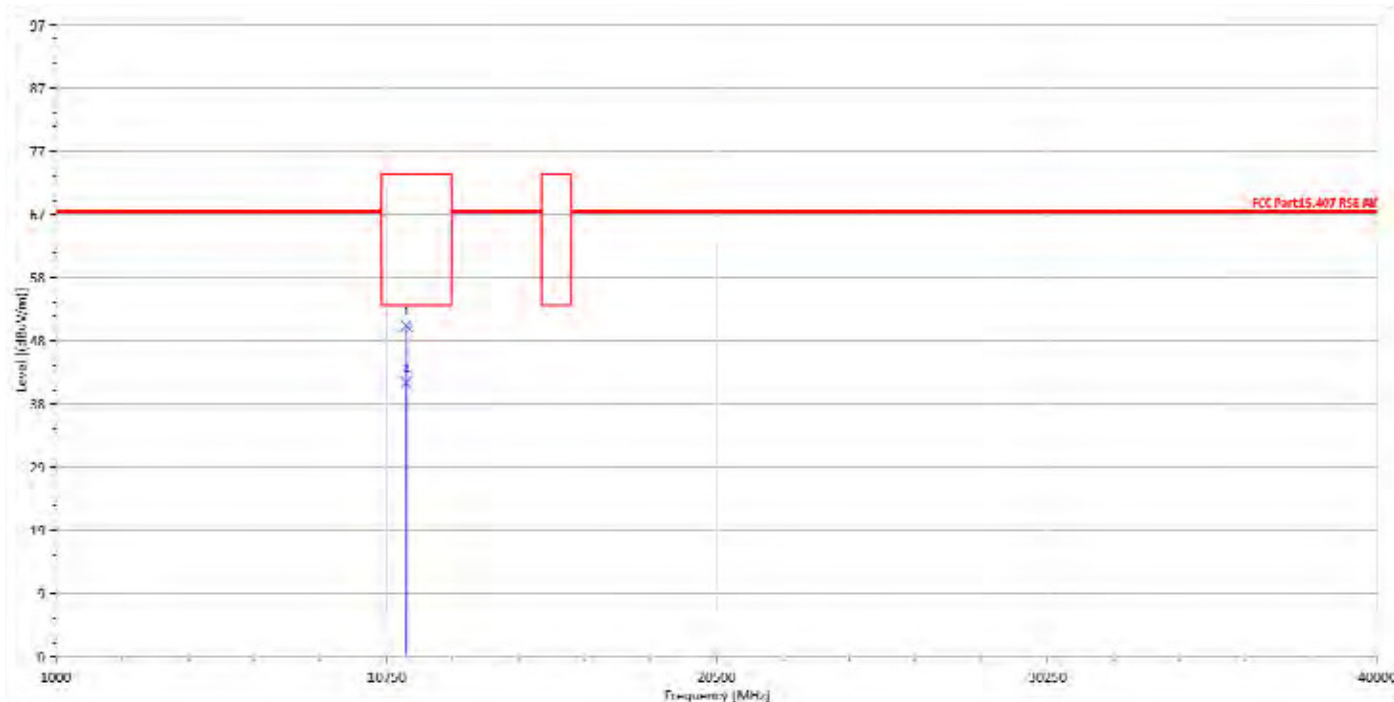
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 Fundamental Frequency : 5670 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	H	Peak	29.87	20.97	50.84	74	-23.16
11340.00	H	Average	21.04	20.97	42.01	54	-11.99

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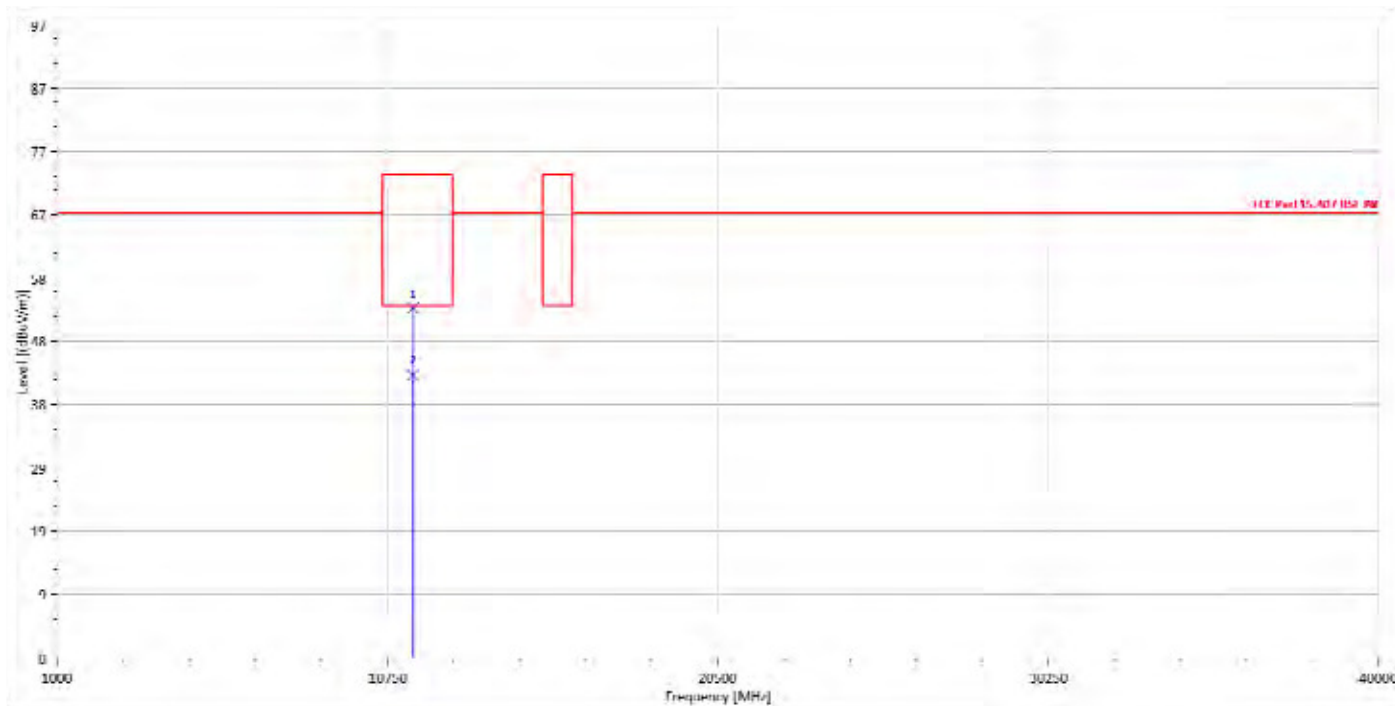
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	H	Peak	31.46	22.17	53.63	74	-20.37
11510.00	H	Average	21.24	22.17	43.41	54	-10.59

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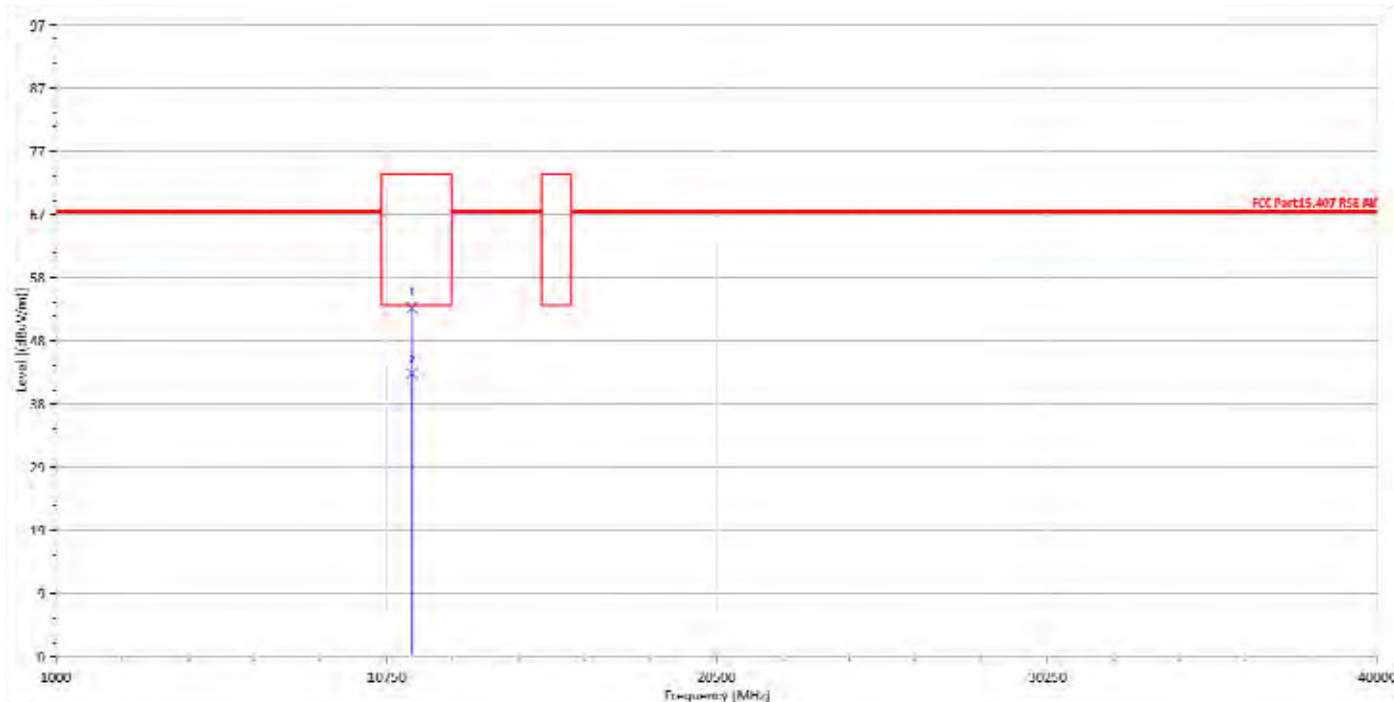
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	H	Peak	31.41	22.17	53.57	74	-20.43
11510.00	H	Average	21.25	22.17	43.42	54	-10.58

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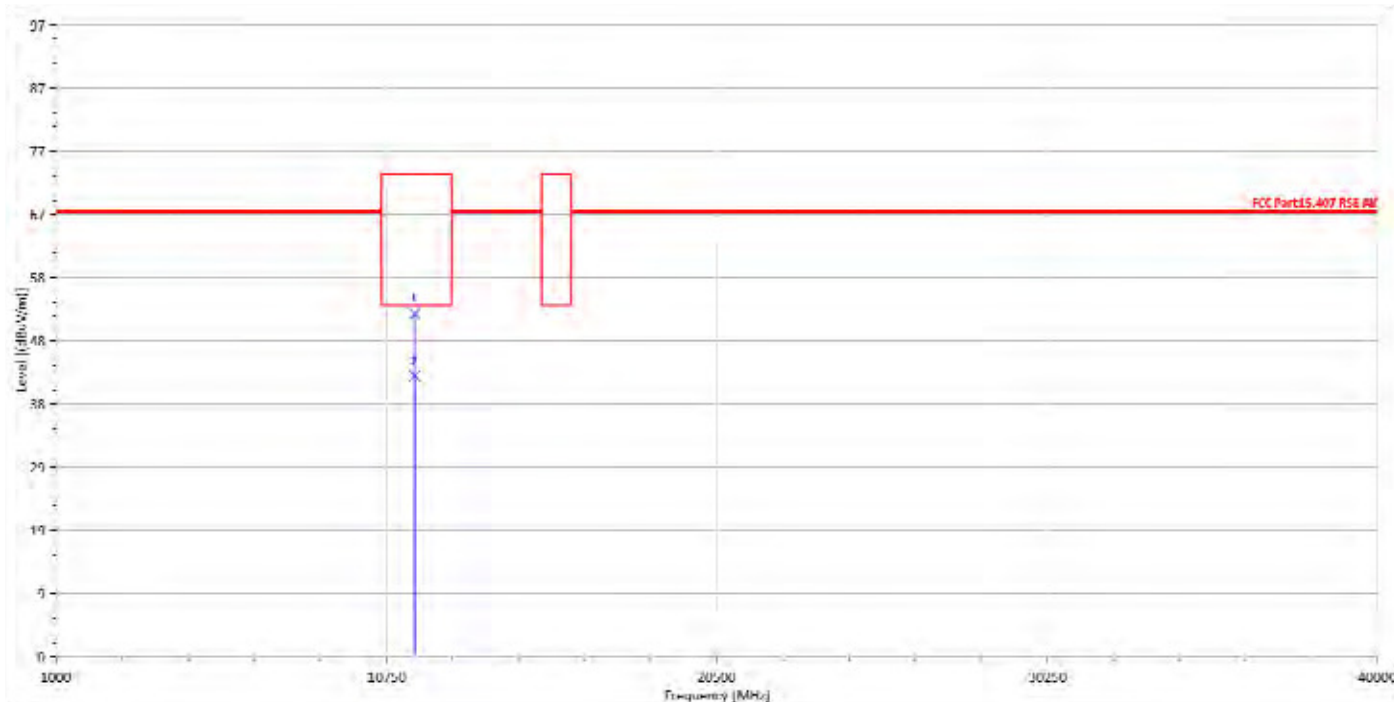
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	30.85	21.84	52.69	74	-21.31
11590.00	H	Average	21.20	21.84	43.04	54	-10.96

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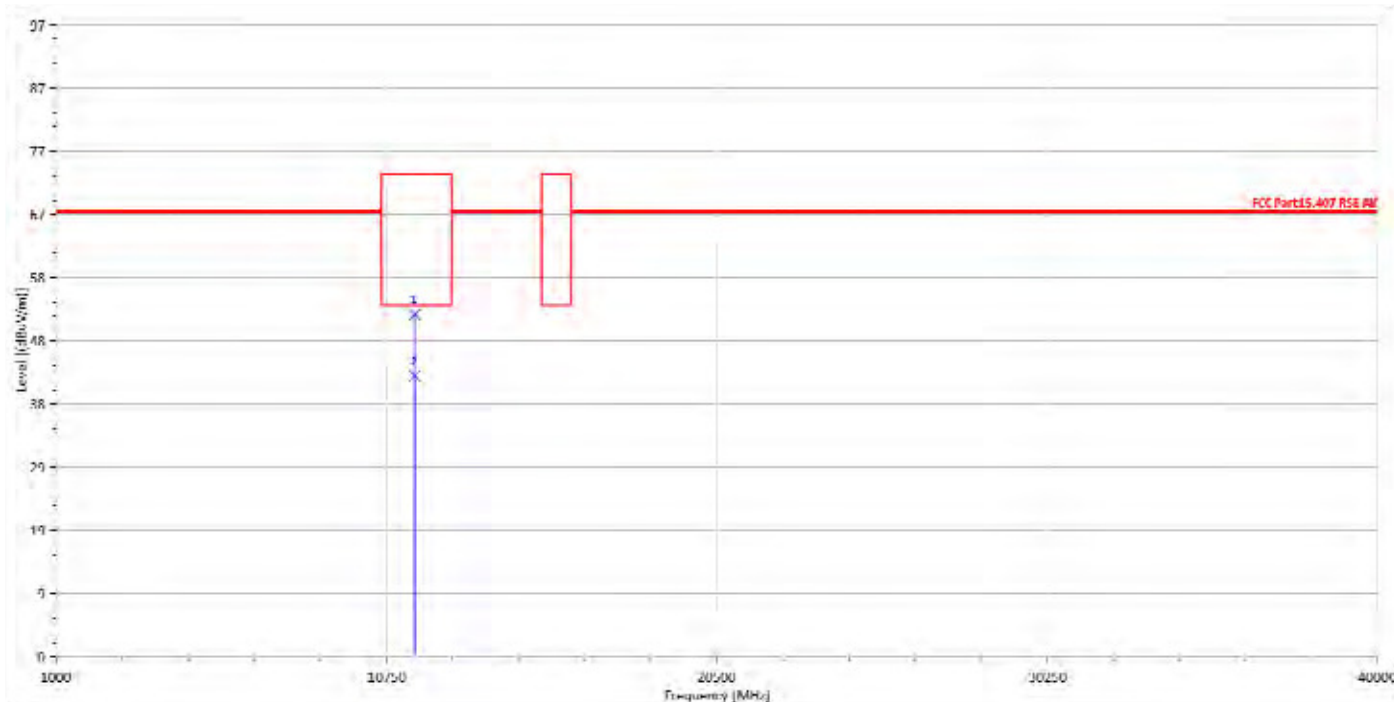
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Operation Mode : 802.11n40 Test Date : 2016/9/7
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	H	Peak	30.77	21.84	52.62	74	-21.38
11590.00	H	Average	21.21	21.84	43.05	54	-10.95

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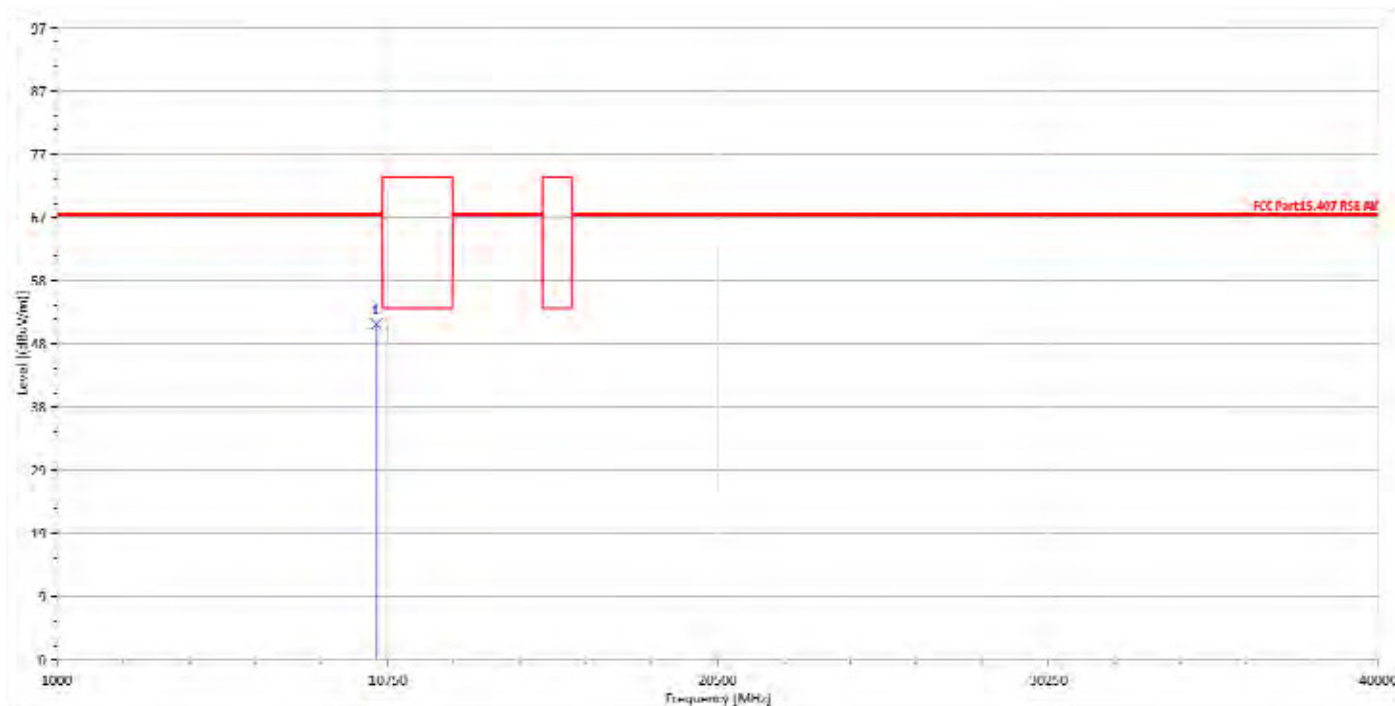
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2016/9/7
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23.5 deg_C/56 RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	H	Peak	30.88	20.67	51.55	68.3	-16.75

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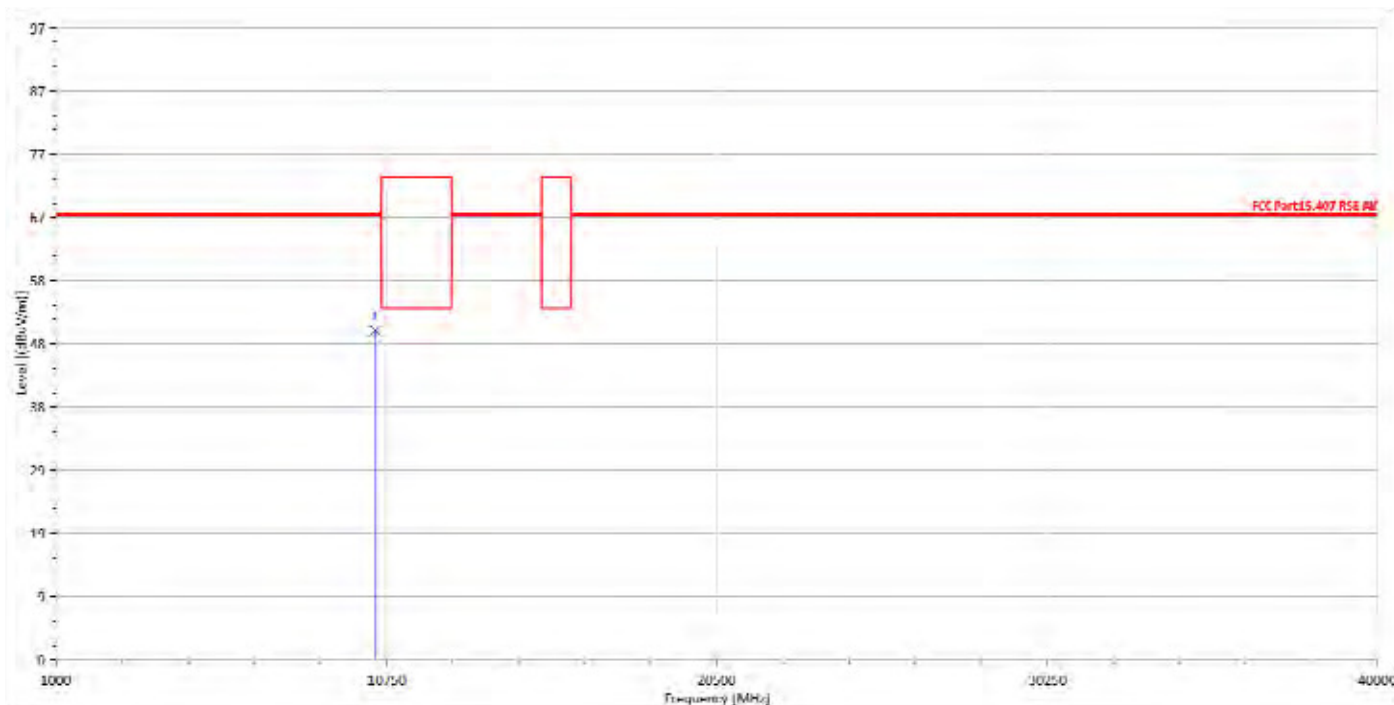
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Operation Mode : 802.11ac80 Test Date : 2016/9/7
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 23.5 deg_C/56 RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10420.00	H	Peak	29.86	20.67	50.53	68.3	-17.77

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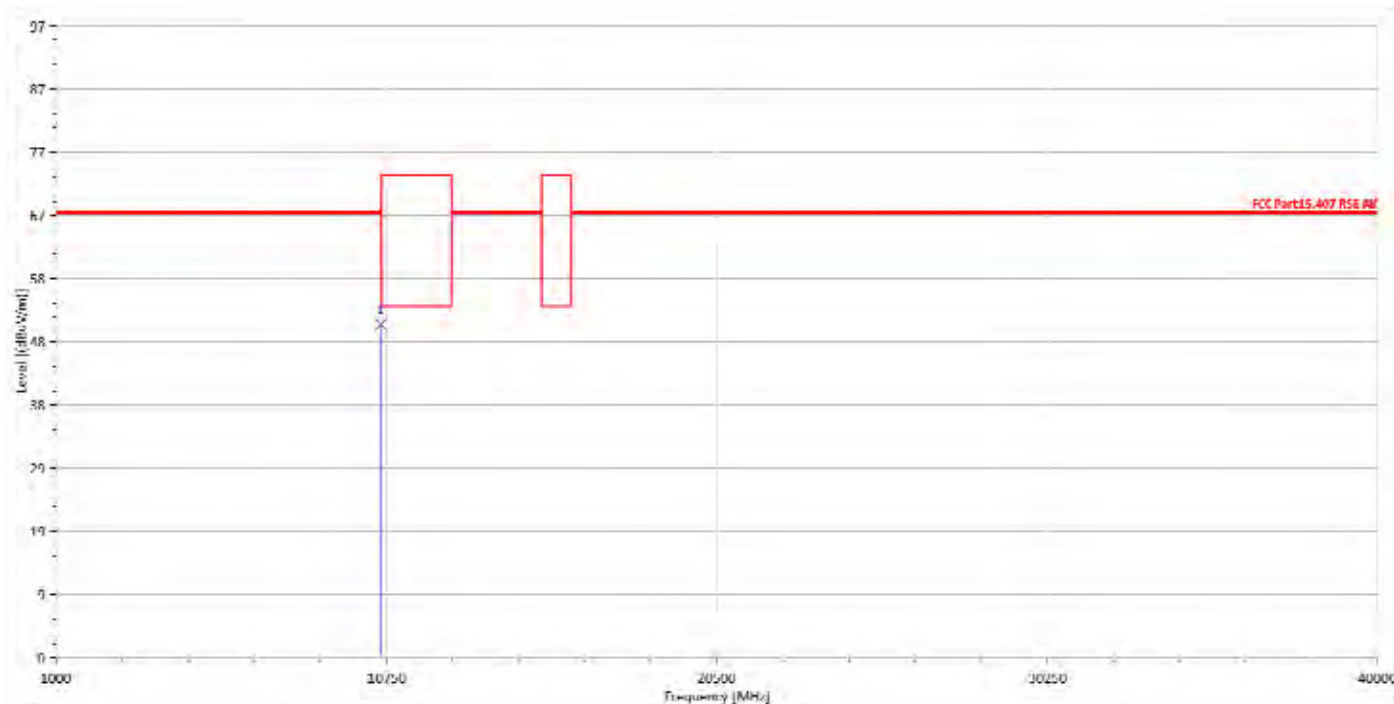
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2016/9/7
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	23.5 deg_C/56 RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	H	Peak	31.05	20.12	51.17	68.3	-17.13

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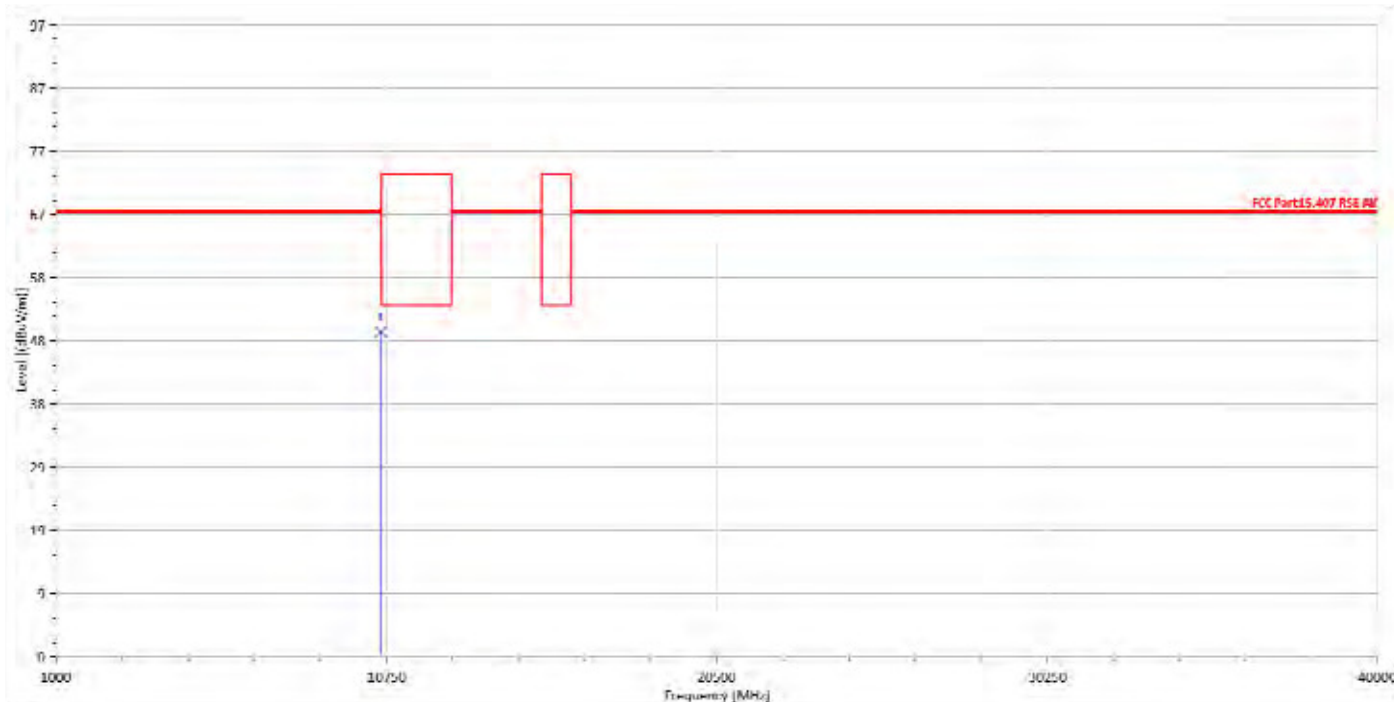
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Operation Mode : 802.11ac80 Test Date : 2016/9/7
Fundamental Frequency : 5290 MHz Temp. / Humi. : 23.5 deg_C/56 RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : H Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	H	Peak	29.74	20.12	49.86	68.3	-18.44

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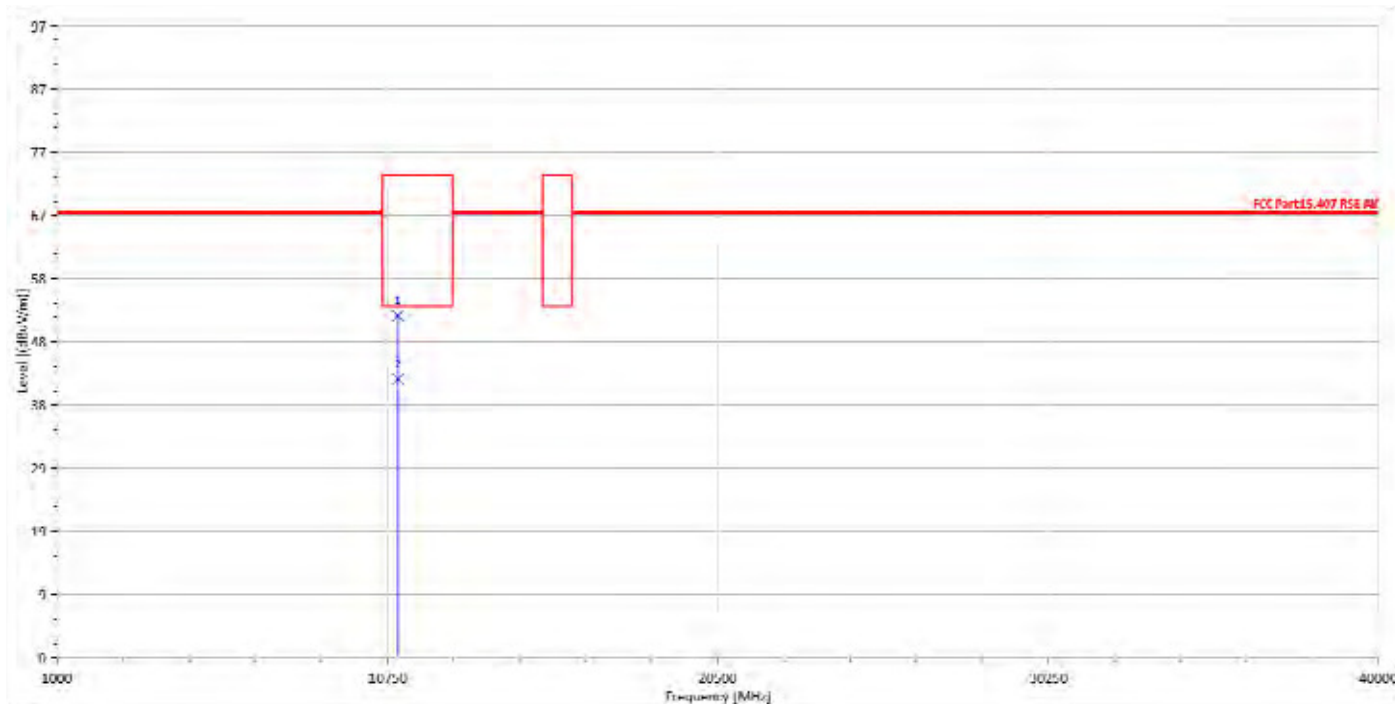
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2016/9/7
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23.5 deg_C/56 RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11060.00	H	Peak	30.70	21.83	52.53	74	-21.47
11060.00	H	Average	20.90	21.83	42.73	54	-11.27

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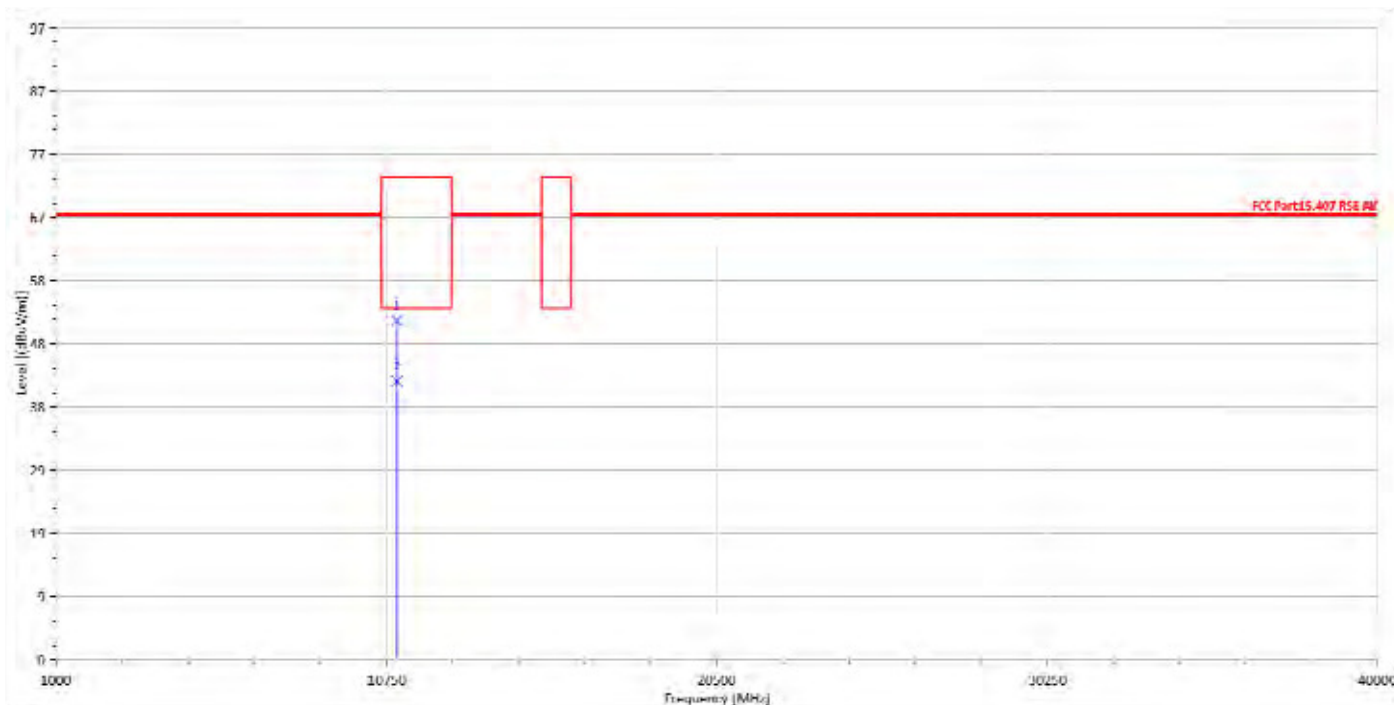
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Operation Mode :	802.11ac80	Test Date :	2016/9/7
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23.5 deg_C/56 RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	H	Peak	30.26	21.83	52.09	74	-21.91
11060.00	H	Average	20.89	21.83	42.72	54	-11.28

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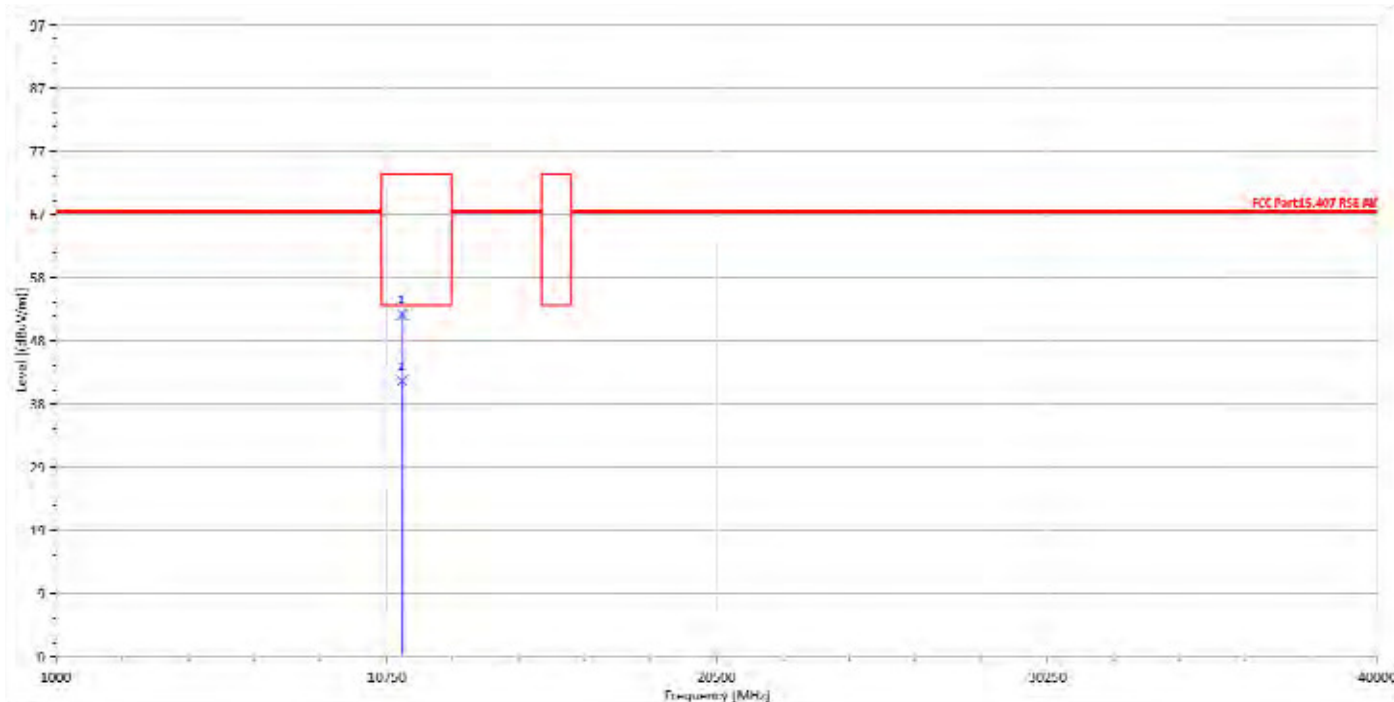
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Operation Mode :	802.11ac80	Test Date :	2016/9/7
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	23.5 deg_C/56 RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11220.00	H	Peak	31.22	21.32	52.54	74	-21.46
11220.00	H	Average	20.99	21.32	42.30	54	-11.70

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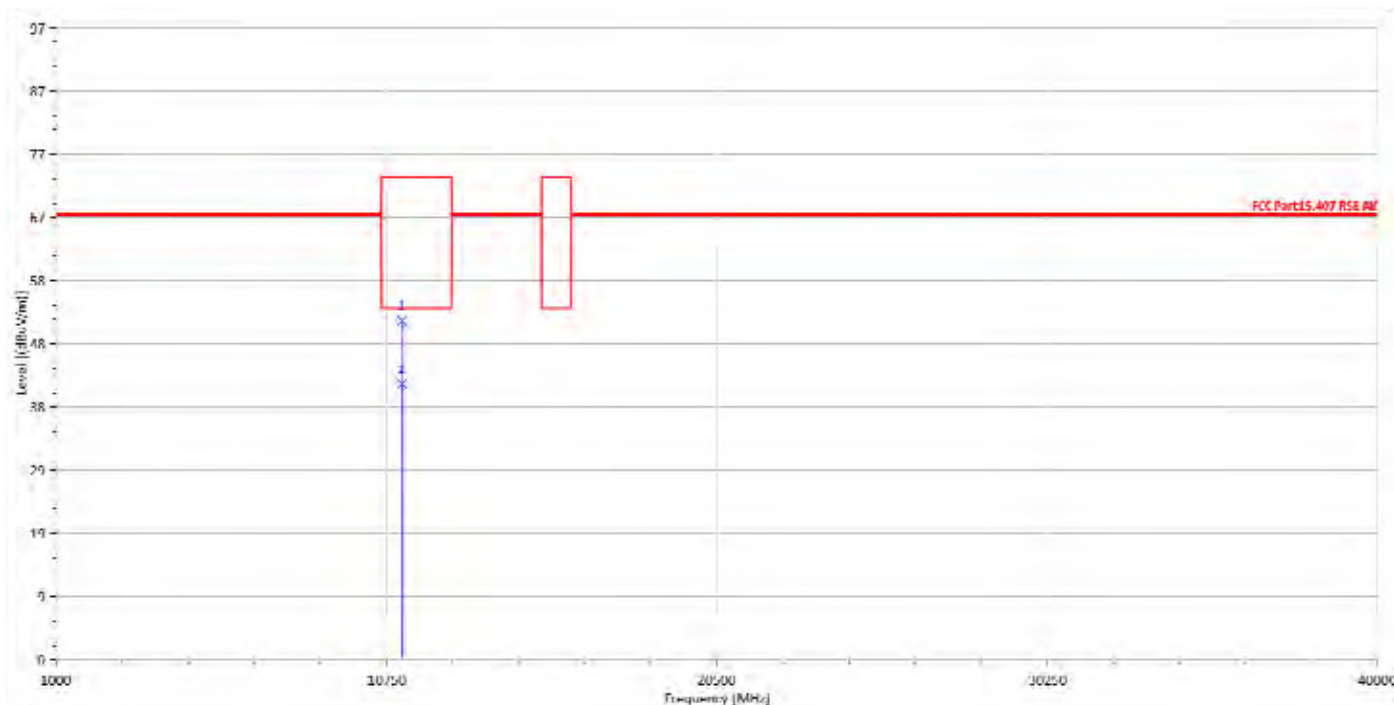
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Operation Mode :	802.11ac80	Test Date :	2016/9/7
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	23.5 deg_C/56 RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11220.00	H	Peak	30.76	21.32	52.07	74	-21.93
11220.00	H	Average	20.96	21.32	42.28	54	-11.72

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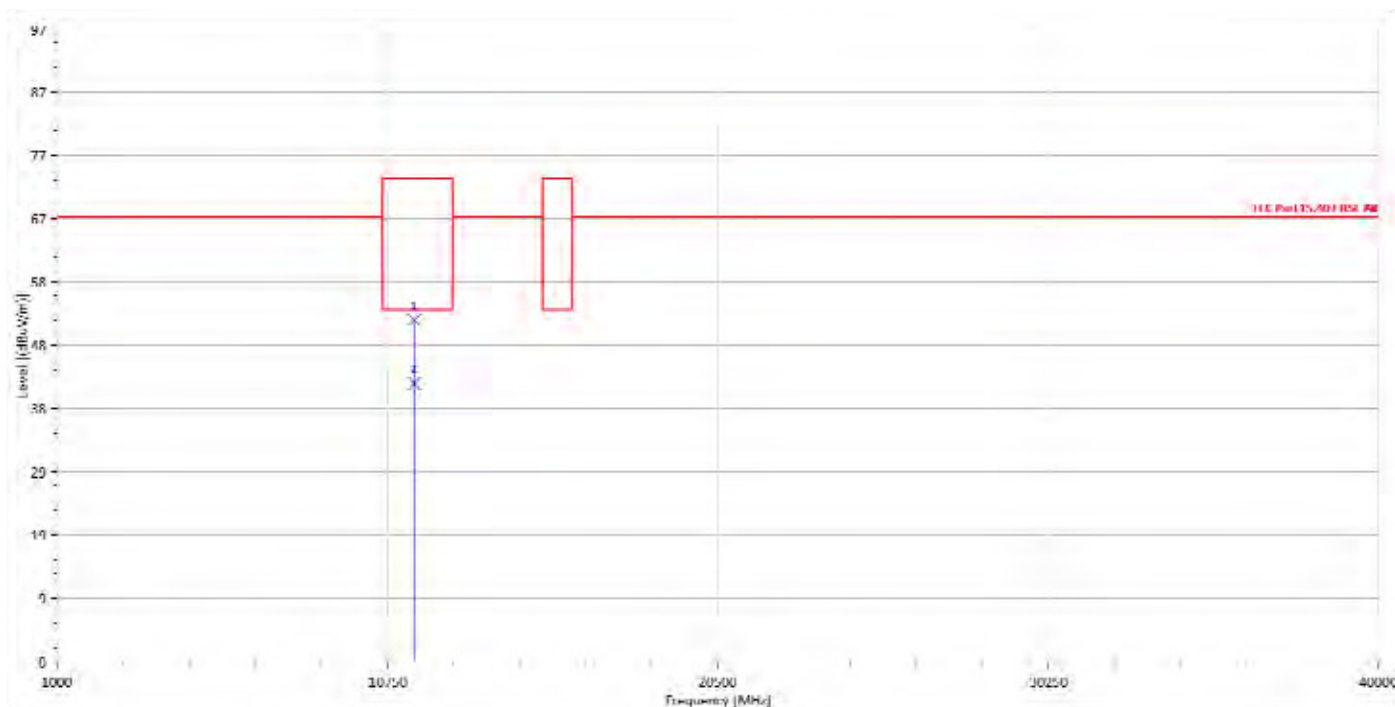
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80 Test Date : 2016/9/7
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23.5 deg_C/56RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : H Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11550.00	H	Peak	31.02	21.41	52.43	74	-21.57
11550.00	H	Average	21.22	21.41	42.63	54	-11.37

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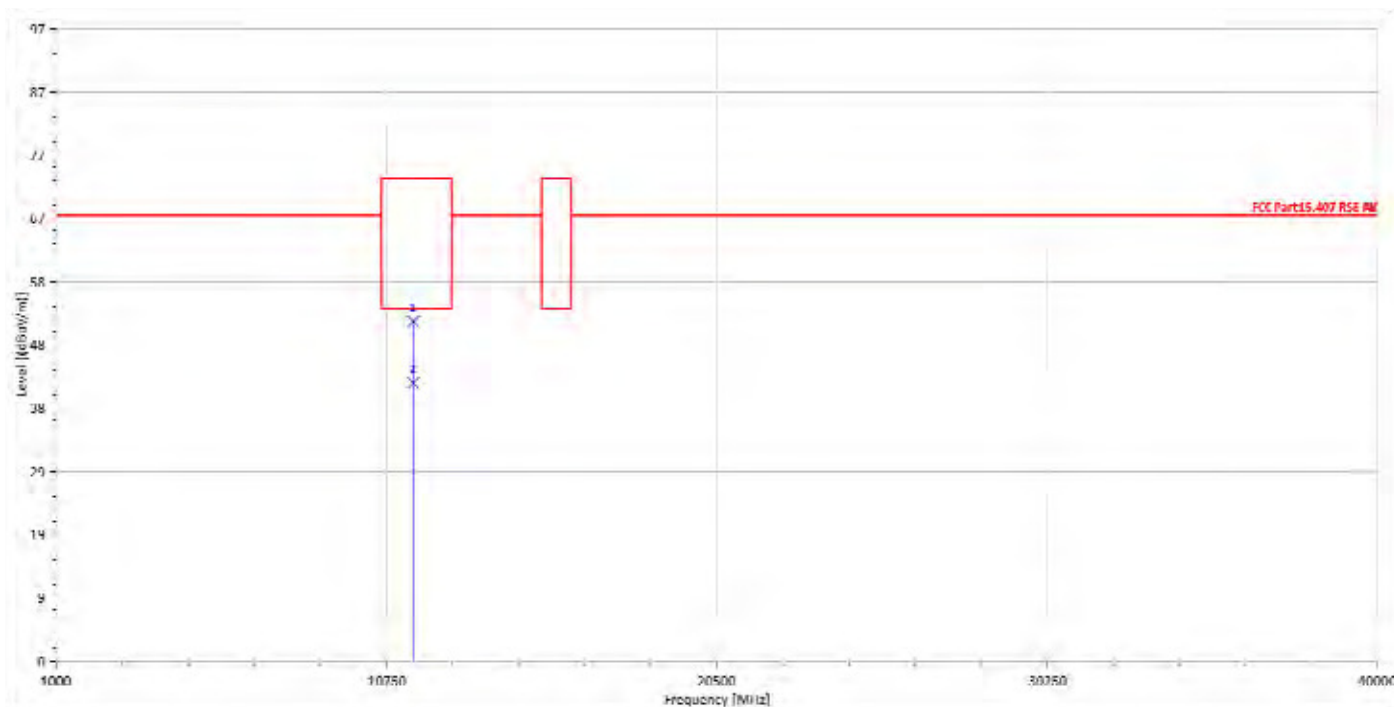
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Operation Mode :	802.11ac80	Test Date :	2016/9/7
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23.5 deg_C/56RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11550.00	H	Peak	30.63	21.41	52.05	74	-21.95
11550.00	H	Average	21.24	21.41	42.65	54	-11.35

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Band edge falling to restricted band

802.11a mode

Operation Mode : 802.11a Test Date : 2016/9/6
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Peak	56.11	8.19	64.30	74	-9.70
5150.00	E	Average	32.58	8.19	40.77	54	-13.23

Operation Mode : 802.11a Test Date : 2016/9/6
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5146.60	S	Peak	58.46	8.17	66.63	74	-7.37
5146.60	S	Average	33.74	8.17	41.91	54	-12.09
5150.00	E	Peak	56.82	8.19	65.01	74	-8.99
5150.00	E	Average	34.70	8.19	42.89	54	-11.11

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Operation Mode : 802.11a Test Date : 2016/9/6
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	55.98	8.96	64.94	74	-9.06
5350.00	E	Average	33.60	8.96	42.56	54	-11.44
5351.52	S	Peak	58.36	8.99	67.35	74	-6.65
5351.52	S	Average	33.41	8.99	42.40	54	-11.60

Operation Mode : 802.11a Test Date : 2016/9/6
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	56.76	8.96	65.72	74	-8.28
5350.00	E	Average	34.32	8.96	43.28	54	-10.72
5351.64	S	Peak	59.65	8.99	68.64	74	-5.36
5351.64	S	Average	33.96	8.99	42.95	54	-11.05

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Operation Mode : 802.11a Test Date : 2016/9/6
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	51.31	8.88	60.20	74	-13.80
5460.00	E	Average	32.15	8.88	41.03	54	-12.97

Operation Mode : 802.11a Test Date : 2016/9/6
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5459.12	S	Peak	53.37	8.89	62.26	74	-11.74
5459.12	S	Average	32.93	8.89	41.82	54	-12.18
5460.00	E	Peak	52.96	8.88	61.84	74	-12.16
5460.00	E	Average	32.96	8.88	41.84	54	-12.16

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Operation Mode :	802.11a	Test Date :	2016/9/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	55.50	8.79	64.29	68.3	-4.01

Operation Mode :	802.11a	Test Date :	2016/9/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5469.44	S	Peak	58.19	8.79	66.98	68.3	-1.32
5470.00	E	Peak	57.36	8.79	66.15	68.3	-2.15

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Operation Mode : 802.11a Test Date : 2016/9/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	55.31	9.30	64.61	68.3	-3.69
5727.56	S	Peak	56.45	9.30	65.75	68.3	-2.55

Operation Mode : 802.11a Test Date : 2016/9/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	57.18	9.30	66.48	68.3	-1.82
5727.20	S	Peak	57.99	9.30	67.29	68.3	-1.01

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Operation Mode : 802.11a Test Date : 2016/9/21
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	42.23	9.33	51.57	68.23	-16.66
5700.00	S	Peak	48.59	9.44	58.03	105.23	-47.20
5719.58	S	Peak	56.78	9.28	66.06	110.7124	-44.65
5720.00	S	Peak	55.92	9.28	65.20	110.83	-45.63
5725.00	E	Peak	55.94	9.30	65.24	122.23	-56.99

Operation Mode : 802.11a Test Date : 2016/9/21
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	42.66	9.33	51.99	68.23	-16.24
5700.00	S	Peak	51.22	9.44	60.66	105.23	-44.57
5720.00	S	Peak	58.97	9.28	68.25	110.83	-42.58
5724.31	S	Peak	63.24	9.30	72.53	120.6569	-48.12
5725.00	E	Peak	61.06	9.30	70.36	122.23	-51.87

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Operation Mode : 802.11a Test Date : 2016/9/21
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	54.22	9.49	63.71	122.23	-58.52
5855.00	S	Peak	48.67	9.58	58.25	110.83	-52.58
5858.50	S	Peak	51.52	9.65	61.16	109.85	-48.69
5875.00	S	Peak	41.89	9.63	51.52	105.23	-53.71
5925.00	S	Peak	41.13	10.01	51.14	68.23	-17.09

Operation Mode : 802.11a Test Date : 2016/9/21
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	55.72	9.49	65.21	122.23	-57.02
5855.00	S	Peak	52.67	9.58	62.25	110.83	-48.58
5858.13	S	Peak	54.16	9.64	63.80	109.955	-46.15
5875.00	S	Peak	43.03	9.63	52.66	105.23	-52.57
5925.00	S	Peak	41.47	10.01	51.49	68.23	-16.74

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802.11n HT20 mode

Operation Mode : 802.11n20 Test Date : 2016/9/6
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5148.64	S	Peak	56.06	8.18	64.24	74	-9.76
5148.64	S	Average	32.52	8.18	40.70	54	-13.30
5150.00	E	Peak	54.34	8.19	62.54	74	-11.46
5150.00	E	Average	32.79	8.19	40.98	54	-13.02

Operation Mode : 802.11n20 Test Date : 2016/9/6
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Peak	55.55	8.19	63.74	74	-10.26
5150.00	E	Average	33.14	8.19	41.33	54	-12.67

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Operation Mode : 802.11n20 Test Date : 2016/9/6
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	57.32	8.96	66.28	74	-7.72
5350.00	E	Average	33.29	8.96	42.25	54	-11.75
5351.64	S	Peak	59.04	8.99	68.03	74	-5.97
5351.64	S	Average	33.17	8.99	42.16	54	-11.84

Operation Mode : 802.11n20 Test Date : 2016/9/6
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	58.55	8.96	67.52	74	-6.48
5350.00	E	Average	33.82	8.96	42.78	54	-11.22

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Operation Mode : 802.11n20 Test Date : 2016/9/6
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	50.38	8.88	59.26	74	-14.74
5460.00	E	Average	32.02	8.88	40.90	54	-13.10

Operation Mode : 802.11n20 Test Date : 2016/9/6
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5458.28	S	Peak	54.49	8.90	63.39	74	-10.61
5458.28	S	Average	32.98	8.90	41.88	54	-12.12
5460.00	E	Peak	53.52	8.88	62.40	74	-11.60
5460.00	E	Average	33.06	8.88	41.94	54	-12.06

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Operation Mode :	802.11n20	Test Date :	2016/9/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5468.48	S	Peak	55.36	8.80	64.16	68.3	-4.14
5470.00	E	Peak	54.05	8.79	62.84	68.3	-5.46

Operation Mode :	802.11n20	Test Date :	2016/9/6
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5468.96	S	Peak	58.47	8.80	67.27	68.3	-1.03
5470.00	E	Peak	58.30	8.79	67.09	68.3	-1.21

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Operation Mode : 802.11n20 Test Date : 2016/9/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	54.14	9.30	63.44	68.3	-4.86
5727.20	S	Peak	55.87	9.30	65.17	68.3	-3.13

Operation Mode : 802.11n20 Test Date : 2016/9/6
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	57.67	9.30	66.97	68.3	-1.33
5725.52	S	Peak	57.87	9.30	67.17	68.3	-1.13

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Operation Mode : 802.11n20 Test Date : 2016/9/21
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	41.93	9.33	51.26	68.23	-16.97
5700.00	S	Peak	50.52	9.44	59.96	105.23	-45.27
5718.15	S	Peak	58.60	9.27	67.88	110.312	-42.44
5720.00	S	Peak	57.75	9.28	67.03	110.83	-43.80
5725.00	E	Peak	59.66	9.30	68.96	122.23	-53.27

Operation Mode : 802.11n20 Test Date : 2016/9/21
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	42.39	9.33	51.72	68.23	-16.51
5700.00	S	Peak	56.95	9.44	66.39	105.23	-38.84
5719.58	S	Peak	63.51	9.28	72.79	110.7124	-37.92
5720.00	S	Peak	60.87	9.28	70.15	110.83	-40.68
5725.00	E	Peak	65.52	9.30	74.82	122.23	-47.41

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Operation Mode : 802.11n20 Test Date : 2016/9/21
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	53.80	9.49	63.29	122.23	-58.94
5855.00	S	Peak	52.61	9.58	62.19	110.83	-48.64
5858.75	S	Peak	52.66	9.65	62.31	109.78	-47.47
5875.00	S	Peak	42.73	9.63	52.37	105.23	-52.86
5925.00	S	Peak	41.82	10.01	51.84	68.23	-16.39

Operation Mode : 802.11n20 Test Date : 2016/9/21
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	56.37	9.49	65.85	122.23	-56.38
5855.00	S	Peak	54.15	9.58	63.73	110.83	-47.10
5858.63	S	Peak	55.95	9.65	65.60	109.815	-44.21
5875.00	S	Peak	46.20	9.63	55.84	105.23	-49.39
5925.00	S	Peak	42.07	10.01	52.08	68.23	-16.15

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802.11n HT40 mode

Operation Mode :	802.11n40	Test Date :	2016/9/6
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Peak	52.98	8.19	61.18	74	-12.82
5150.00	E	Average	32.17	8.19	40.36	54	-13.64

Operation Mode :	802.11n40	Test Date :	2016/9/6
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	E	Peak	54.78	8.19	62.98	74	-11.02
5150.00	E	Average	33.30	8.19	41.49	54	-12.51

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Operation Mode : 802.11n40 Test Date : 2016/9/6
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.76	E	Peak	56.55	8.98	65.53	74	-8.47
5350.76	E	Average	32.86	8.98	41.84	54	-12.16

Operation Mode : 802.11n40 Test Date : 2016/9/6
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	58.89	8.96	67.85	74	-6.15
5350.00	E	Average	34.23	8.96	43.19	54	-10.81
5350.76	S	Peak	60.10	8.98	69.07	74	-4.93
5350.76	S	Average	34.36	8.98	43.34	54	-10.66

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Operation Mode : 802.11n40 Test Date : 2016/9/6
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5460.00	E	Peak	49.65	8.88	58.53	74	-15.47
5460.00	E	Average	31.72	8.88	40.60	54	-13.40

Operation Mode : 802.11n40 Test Date : 2016/9/6
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5459.28	S	Peak	52.59	8.89	61.48	74	-12.52
5459.28	S	Average	32.01	8.89	40.90	54	-13.10
5460.00	E	Peak	50.31	8.88	59.19	74	-14.81
5460.00	E	Average	32.03	8.88	40.91	54	-13.09

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Operation Mode :	802.11n40	Test Date :	2016/9/6
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5470.00	E	Peak	55.07	8.79	63.85	68.3	-4.45

Operation Mode :	802.11n40	Test Date :	2016/9/6
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5469.00	S	Peak	56.59	8.80	65.39	68.3	-2.91
5470.00	E	Peak	55.21	8.79	64.00	68.3	-4.30

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Operation Mode : 802.11n40 Test Date : 2016/9/6
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	51.66	9.30	60.96	68.3	-7.34

Operation Mode : 802.11n40 Test Date : 2016/9/6
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	49.29	9.30	58.59	68.3	-9.71
5725.16	S	Peak	51.86	9.30	61.16	68.3	-7.14

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Operation Mode : 802.11n40 Test Date : 2016/9/21
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	43.84	9.33	53.17	68.23	-15.06
5700.00	S	Peak	50.72	9.44	60.15	105.23	-45.08
5716.04	S	Peak	59.03	9.27	68.30	109.7212	-41.42
5720.00	S	Peak	56.28	9.28	65.56	110.83	-45.27
5723.48	S	Peak	61.00	9.29	70.29	118.7644	-48.47
5725.00	E	Peak	59.53	9.30	68.83	122.23	-53.40

Operation Mode : 802.11n40 Test Date : 2016/9/21
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5648.96	S	Peak	50.62	9.34	59.97	68.23	-8.26
5650.00	S	Peak	46.40	9.33	55.74	68.23	-12.49
5700.00	S	Peak	55.65	9.44	65.08	105.23	-40.15
5714.12	S	Peak	62.51	9.26	71.76	109.1836	-37.42
5720.00	S	Peak	60.06	9.28	69.34	110.83	-41.49
5725.00	E	Peak	62.93	9.30	72.23	122.23	-50.00

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Operation Mode : 802.11n40 Test Date : 2016/9/21
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	46.88	9.49	56.37	122.23	-65.86
5855.00	S	Peak	47.04	9.58	56.62	110.83	-54.21
5858.08	S	Peak	47.34	9.64	56.98	109.9676	-52.99
5875.00	S	Peak	42.54	9.63	52.17	105.23	-53.06
5925.00	S	Peak	42.21	10.01	52.23	68.23	-16.00

Operation Mode : 802.11n40 Test Date : 2016/9/21
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	50.23	9.49	59.72	122.23	-62.51
5855.00	S	Peak	50.05	9.58	59.63	110.83	-51.20
5859.53	S	Peak	51.44	9.66	61.10	109.5617	-48.46
5875.00	S	Peak	46.13	9.63	55.76	105.23	-49.47
5925.00	S	Peak	42.56	10.01	52.57	68.23	-15.66

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802.11ac80 VHT mode

Operation Mode : 802.11ac80 Test Date : 2016/9/6
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5144.70	S	Peak	50.37	8.16	58.53	74	-15.47
5144.70	S	Average	33.37	8.16	41.53	54	-12.47
5150.00	E	Peak	47.41	8.19	55.60	74	-18.40
5150.00	E	Average	33.26	8.19	41.45	54	-12.55

Operation Mode : 802.11ac80 Test Date : 2016/9/6
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5146.40	S	Peak	53.88	8.17	62.05	74	-11.95
5146.40	S	Average	35.91	8.17	44.08	54	-9.92
5150.00	E	Peak	50.32	8.19	58.52	74	-15.48
5150.00	E	Average	35.81	8.19	44.00	54	-10.00

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Operation Mode : 802.11ac80 Test Date : 2016/9/6
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	50.03	8.96	59.00	74	-15.00
5350.00	E	Average	33.20	8.96	42.16	54	-11.84
5351.40	S	Peak	51.30	8.99	60.29	74	-13.71
5351.40	S	Average	33.14	8.99	42.13	54	-11.87

Operation Mode : 802.11ac80 Test Date : 2016/9/6
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	E	Peak	53.96	8.96	62.93	74	-11.07
5350.00	E	Average	34.70	8.96	43.66	54	-10.34
5351.40	S	Peak	56.10	8.99	65.09	74	-8.91
5351.40	S	Average	34.68	8.99	43.67	54	-10.33

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Operation Mode : 802.11ac80 Test Date : 2016/9/6
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5457.70	S	Peak	52.23	8.90	61.13	74	-12.87
5457.70	S	Average	34.92	8.90	43.82	54	-10.18
5460.00	E	Peak	50.88	8.88	59.76	74	-14.24
5460.00	E	Average	35.02	8.88	43.90	54	-10.10

Operation Mode : 802.11ac80 Test Date : 2016/9/6
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5453.00	S	Peak	55.11	8.95	64.06	74	-9.94
5453.00	S	Average	36.14	8.95	45.09	54	-8.91
5460.00	E	Peak	52.12	8.88	61.01	74	-12.99
5460.00	E	Average	36.51	8.88	45.39	54	-8.61

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Operation Mode :	802.11ac80	Test Date :	2016/9/6
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5469.50	S	Peak	56.03	8.79	64.82	68.3	-3.48
5470.00	E	Peak	53.55	8.79	62.34	68.3	-5.96

Operation Mode :	802.11ac80	Test Date :	2016/9/6
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low RSE	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5468.50	S	Peak	56.98	8.80	65.78	68.3	-2.52
5470.00	E	Peak	56.05	8.79	64.84	68.3	-3.46

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Operation Mode : 802.11ac80 Test Date : 2016/9/21
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	46.72	9.33	56.05	68.23	-12.18
5700.00	S	Peak	55.35	9.44	64.79	105.23	-40.44
5720.00	S	Peak	64.26	9.28	73.54	110.83	-37.29
5725.00	E	Peak	62.18	9.30	71.48	122.23	-50.75

Operation Mode : 802.11ac80 Test Date : 2016/9/21
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5650.00	S	Peak	49.86	9.33	59.20	68.23	-9.03
5700.00	S	Peak	57.29	9.44	66.73	105.23	-38.50
5720.00	S	Peak	66.60	9.28	75.88	110.83	-34.95
5725.00	E	Peak	65.33	9.30	74.63	122.23	-47.60

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Operation Mode : 802.11ac80 Test Date : 2016/9/21
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	51.07	9.49	60.56	122.23	-61.67
5855.00	S	Peak	48.43	9.58	58.02	110.83	-52.81
5875.00	S	Peak	46.06	9.63	55.70	105.23	-49.53
5925.00	S	Peak	43.68	10.01	53.69	68.23	-14.54

Operation Mode : 802.11ac80 Test Date : 2016/9/21
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	55.65	9.49	65.14	122.23	-57.09
5855.00	S	Peak	51.39	9.58	60.97	110.83	-49.86
5870.79	S	Peak	52.17	9.66	61.82	106.4088	-44.59
5875.00	S	Peak	47.89	9.63	57.52	105.23	-47.71
5925.00	S	Peak	43.73	10.01	53.74	68.23	-14.49

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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:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

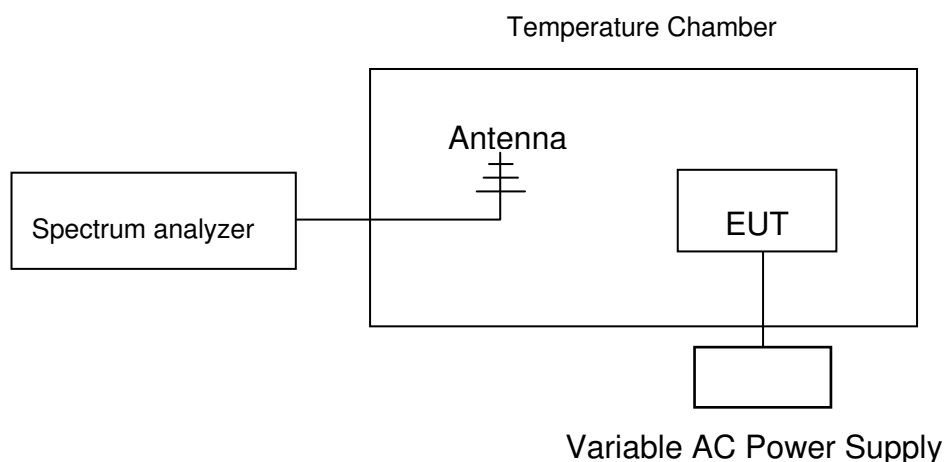
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/16/2016	06/15/2017

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13.5 Measurement Result

Test Date 2016.09.13

Test By Henry

17.57V	36	5180	5,179.96827	0.00000613
	44	5220	5,219.97979	0.00000387
	48	5240	5,239.99442	0.00000106
	52	5260	5,259.99234	0.00000146
	60	5300	5,300.00030	-0.00000006
	64	5320	5,319.99691	0.00000058
	100	5500	5,499.99118	0.00000160
	116	5580	5,579.98374	0.00000291
	140	5700	5,699.99596	0.00000071
	149	5745	5,744.98422	0.00000275
	157	5785	5,784.99580	0.00000073
	165	5825	5,824.98338	0.00000285

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36	5180	5,179.98318	0.00000325
44	5220	5,219.99186	0.00000156
48	5240	5,239.99902	0.00000019
52	5260	5,259.99960	0.00000008
60	5300	5,300.00143	-0.00000027

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

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Test Date 2016.09.13

Test By Henry

	38	5190	#####	0.00000108
	46	5230	#####	-0.00000015
	54	5270	#####	-0.00000050
	62	5310	#####	0.00000172
17.57V	102	5510	#####	0.00000218
	110	5550	#####	0.00000237
	134	5670	#####	0.00000032
	151	5755	#####	-0.00000004

0

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38	5190	#####	0.00000018
46	5230	#####	-0.00000147
54	5270	#####	-0.00000104
62	5310	#####	-0.00000084

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Test Date 2016.09.13

Test By Henry

0	17.57V	42	5210	5,209.98104	0.00000364
		58	5290	5,289.99460	0.00000102
		106	5530	5,529.98735	0.00000229
		122	5610	5,610.00089	-0.00000016

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

PIFA antenna designs are used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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