

## 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 5.25-5.35 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.
3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01	FIELD STRENGTH AT 3m	
	PK: 74 (dB $\mu$ V/m)	AV 54 (dB $\mu$ V/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	RSS-247 §6.2.1 (2)	
15.407(b)(2)	RSS-247 §6.2.2 (2)	PK: -27 (dBm/MHz)
15.407(b)(3)	RSS-247 §6.2.3 (2)	PK: 68.3 (dB $\mu$ V/m)
15.407(b)(4)	RSS-247 §6.2.4 (4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)
		PK: 68.3 (dB $\mu$ V/m) PK: 78.2 (dB $\mu$ V/m)

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

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

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

**Note:**

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

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## 11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
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	07/24/2015	07/23/2016
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	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
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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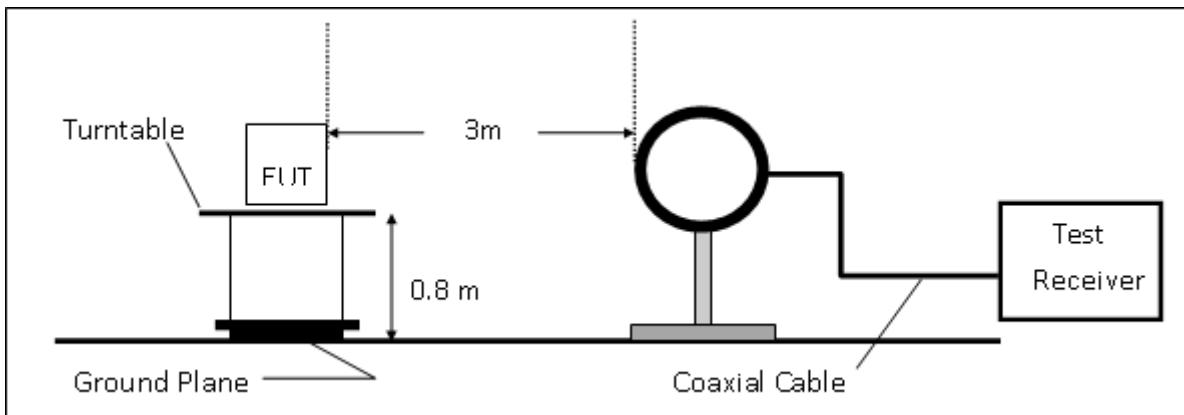
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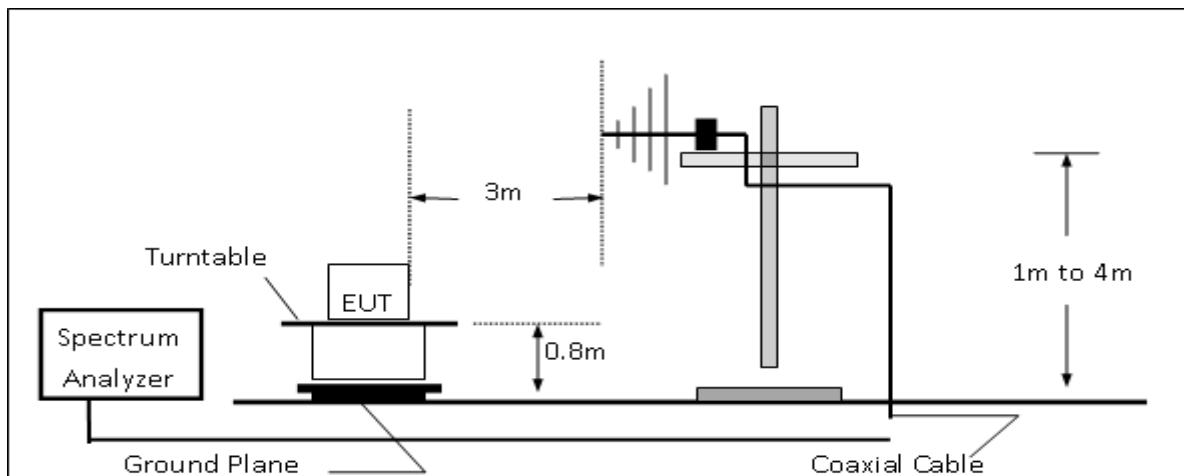
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### 11.3 Test SET-UP

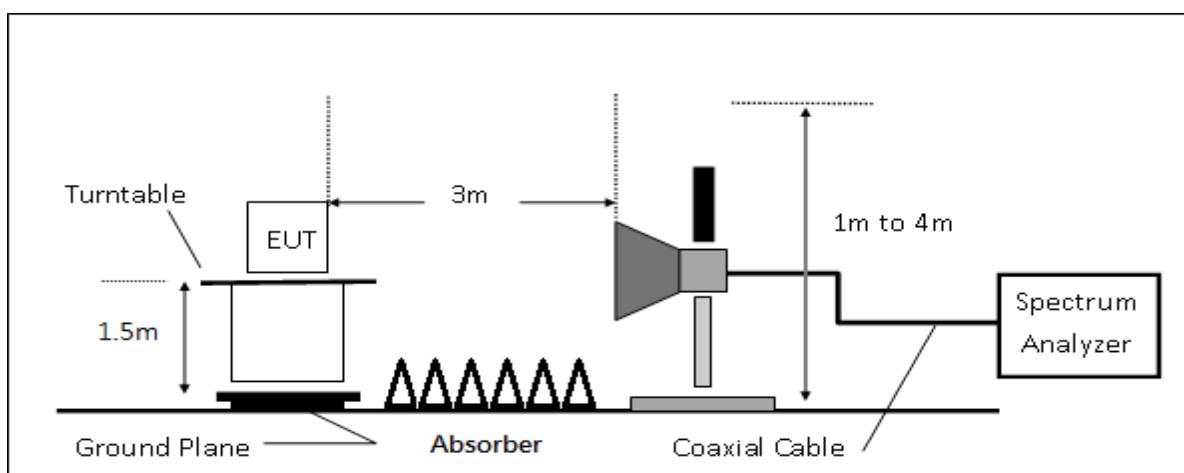
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



#### (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 v01r01.
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  $\geq$  1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

## 11.5 Field Strength Calculation

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

$$FS = RA + AF + CL - AG$$

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

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

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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**Note :**

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

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

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

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

## 11.7 Measurement Result

Refer to attach tabular data sheets.

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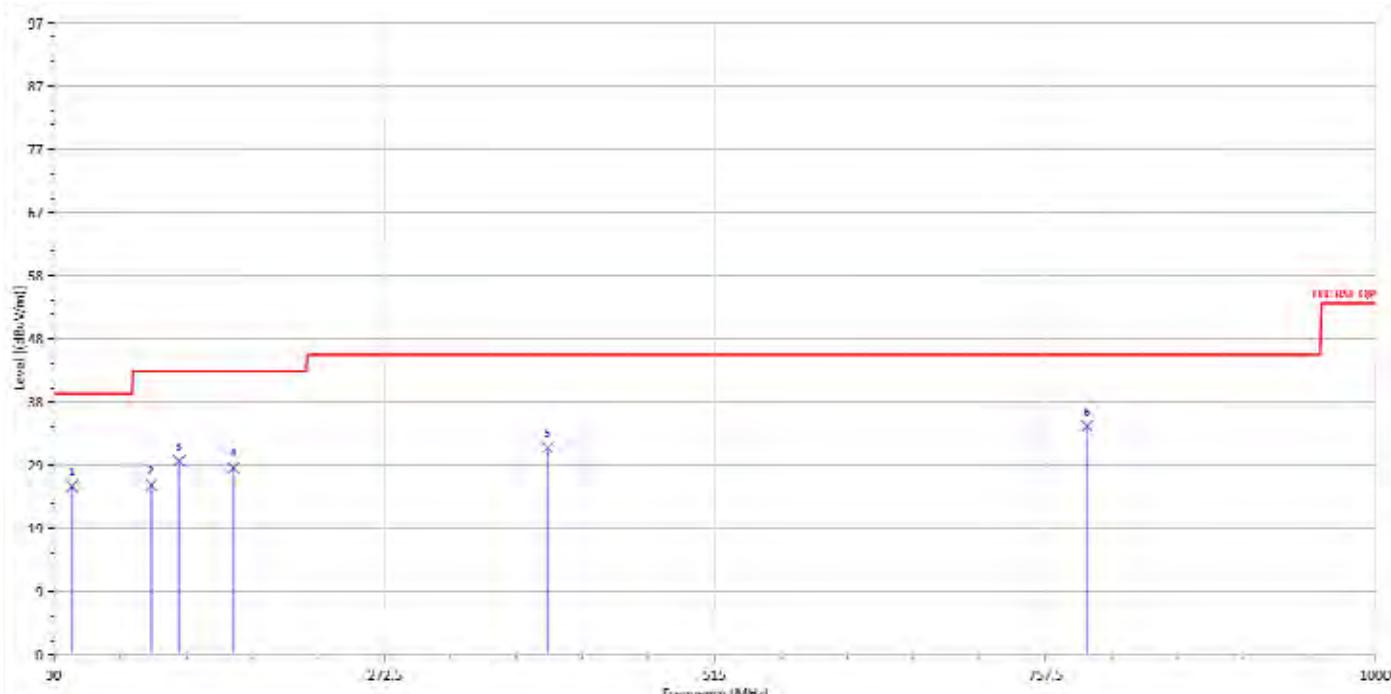
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## Radiated Spurious Emission Measurement Result

## Below 1GHz Worst-Case Data:

## 802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2016/1/18
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
43.58	S	QP	47.24	-21.44	25.80	40	-14.20
101.78	S	Peak	49.55	-23.54	26.01	43.5	-17.49
122.15	S	Peak	51.10	-21.40	29.70	43.5	-13.80
161.92	S	Peak	51.86	-23.26	28.60	43.5	-14.90
392.78	S	Peak	47.91	-16.16	31.75	46	-14.25
788.54	S	Peak	44.94	-9.87	35.07	46	-10.93

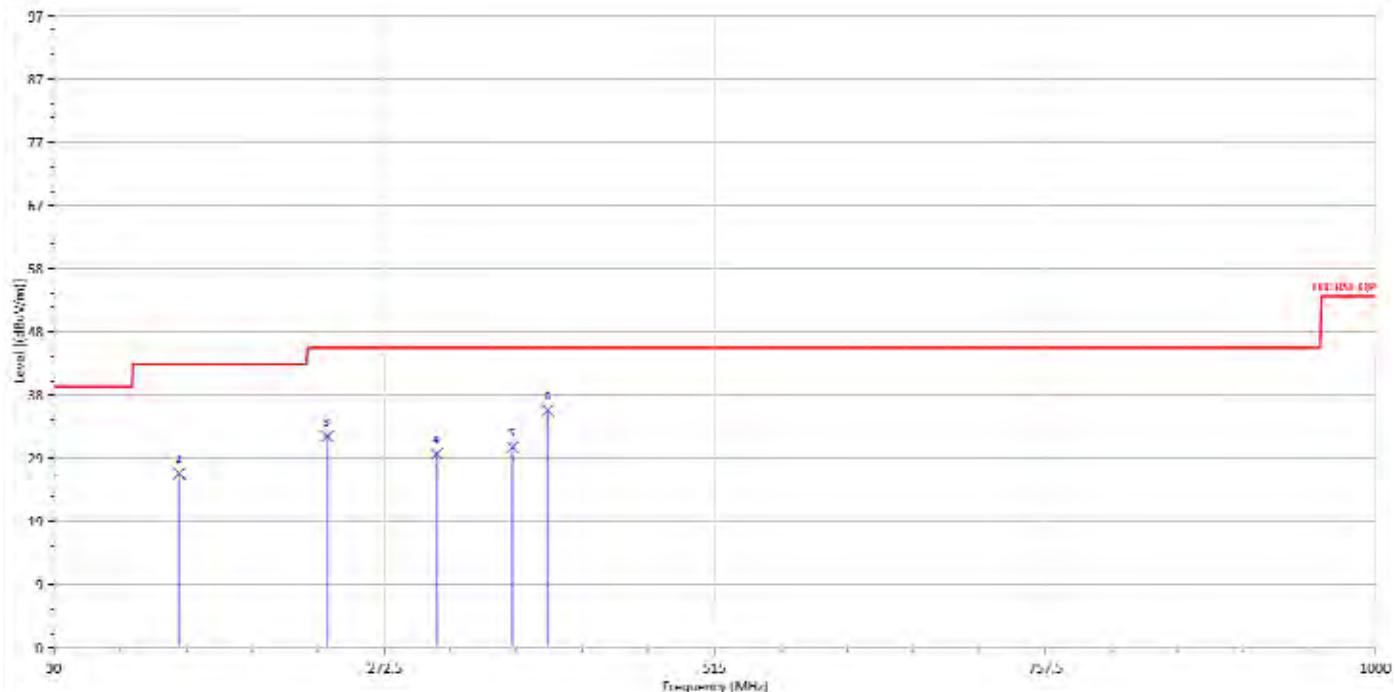
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level dB $\mu$ V				
30.00	S	Peak		37.73	-13.11	24.62	40	-15.38
122.15	S	Peak		48.07	-21.40	26.67	43.5	-16.83
230.79	S	Peak		54.64	-22.20	32.44	46	-13.56
311.30	S	Peak		48.44	-18.71	29.73	46	-16.27
366.59	S	Peak		47.67	-16.91	30.76	46	-15.24
392.78	S	Peak		52.62	-16.16	36.46	46	-9.54

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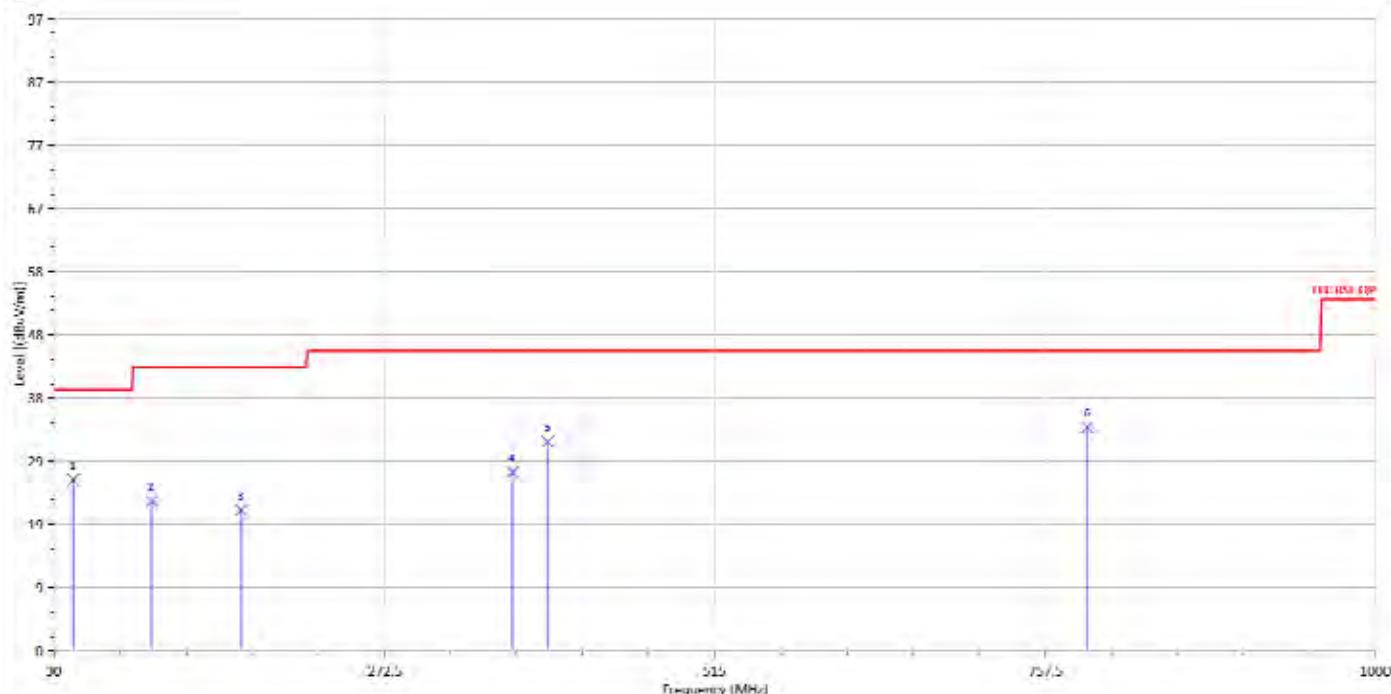
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## 802.11a 5250~5350 MHz

Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level				
44.55	S	QP	48.32		-22.12	26.20	40	-13.80
101.78	S	Peak	46.51		-23.54	22.96	43.5	-20.54
167.74	S	Peak	45.26		-23.65	21.61	43.5	-21.89
366.59	S	Peak	44.21		-16.91	27.30	46	-18.70
392.78	S	Peak	48.21		-16.16	32.05	46	-13.95
788.54	S	Peak	44.15		-9.87	34.28	46	-11.72

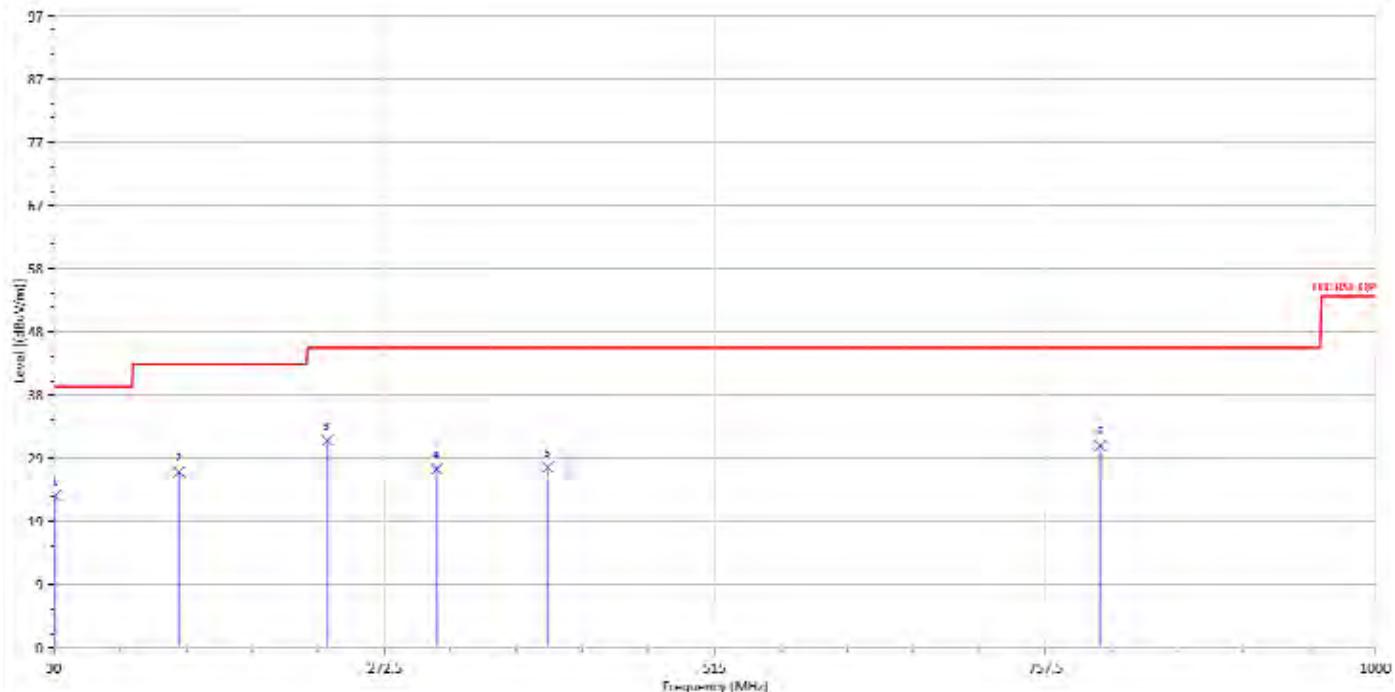
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level dB $\mu$ V				
30.97	S	Peak	36.97	36.97	-13.64	23.33	40	-16.67
122.15	S	Peak	48.29	48.29	-21.40	26.89	43.5	-16.61
230.79	S	Peak	53.99	53.99	-22.20	31.79	46	-14.21
311.30	S	Peak	46.07	46.07	-18.71	27.36	46	-18.64
392.78	S	Peak	43.78	43.78	-16.16	27.62	46	-18.38
798.24	S	Peak	40.53	40.53	-9.55	30.98	46	-15.02

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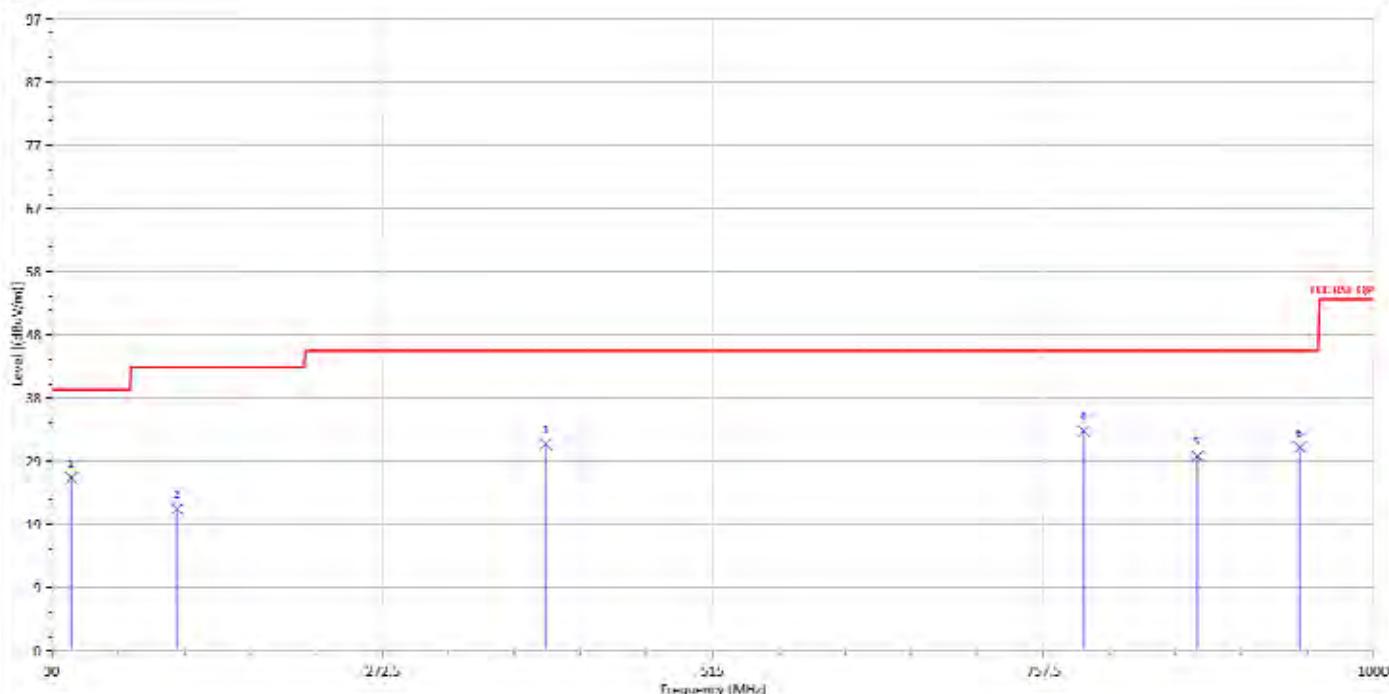
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**802.11a, 5470~5725 MHz**

Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level dB $\mu$ V				
44.55	S	QP	48.62	-22.12	26.50	40	-13.50	
122.15	S	Peak	43.17	-21.40	21.77	43.5	-21.73	
392.78	S	Peak	47.86	-16.16	31.70	46	-14.30	
787.57	S	Peak	43.65	-9.93	33.72	46	-12.28	
870.99	S	Peak	38.02	-8.21	29.81	46	-16.19	
945.68	S	Peak	38.89	-7.70	31.19	46	-14.81	

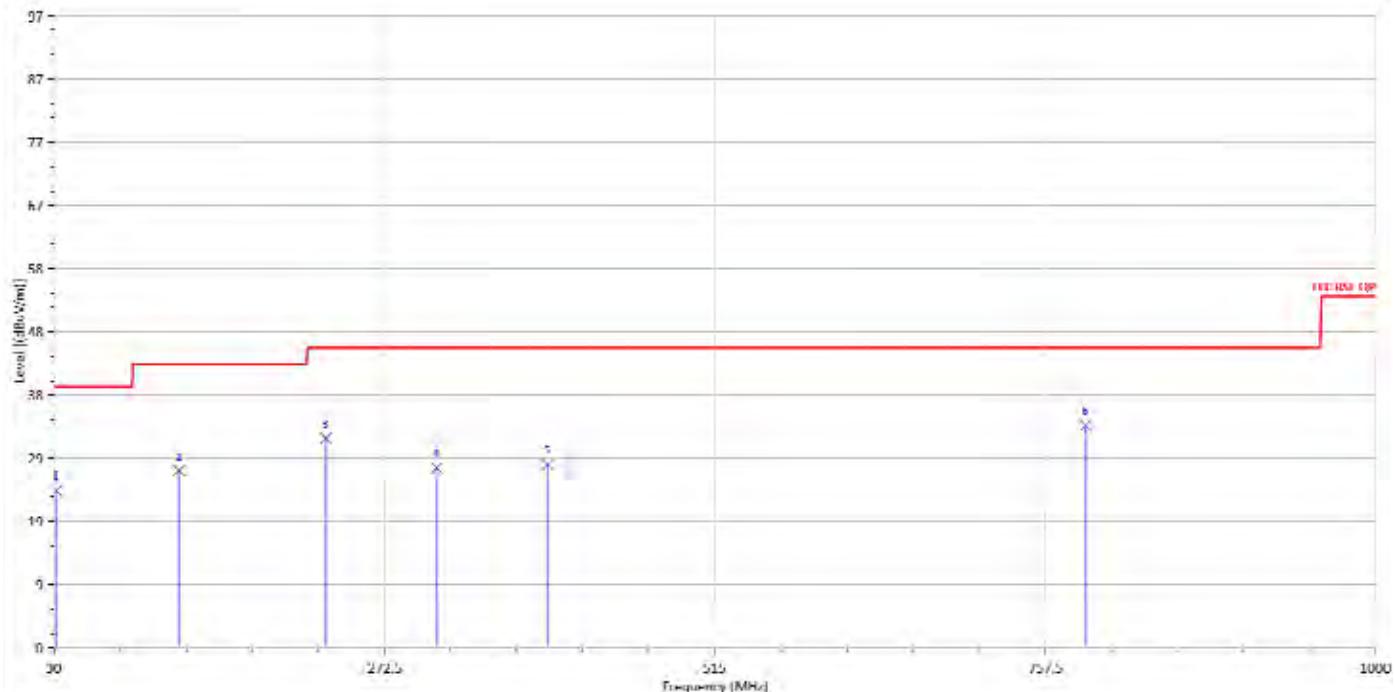
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Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
31.94	S	Peak	38.32	-14.17	24.16	40	-15.84
122.15	S	Peak	48.51	-21.40	27.11	43.5	-16.39
229.82	S	Peak	54.41	-22.31	32.10	46	-13.90
311.30	S	Peak	46.24	-18.71	27.53	46	-18.47
392.78	S	Peak	44.16	-16.16	28.00	46	-18.00
787.57	S	Peak	44.05	-9.93	34.12	46	-11.88

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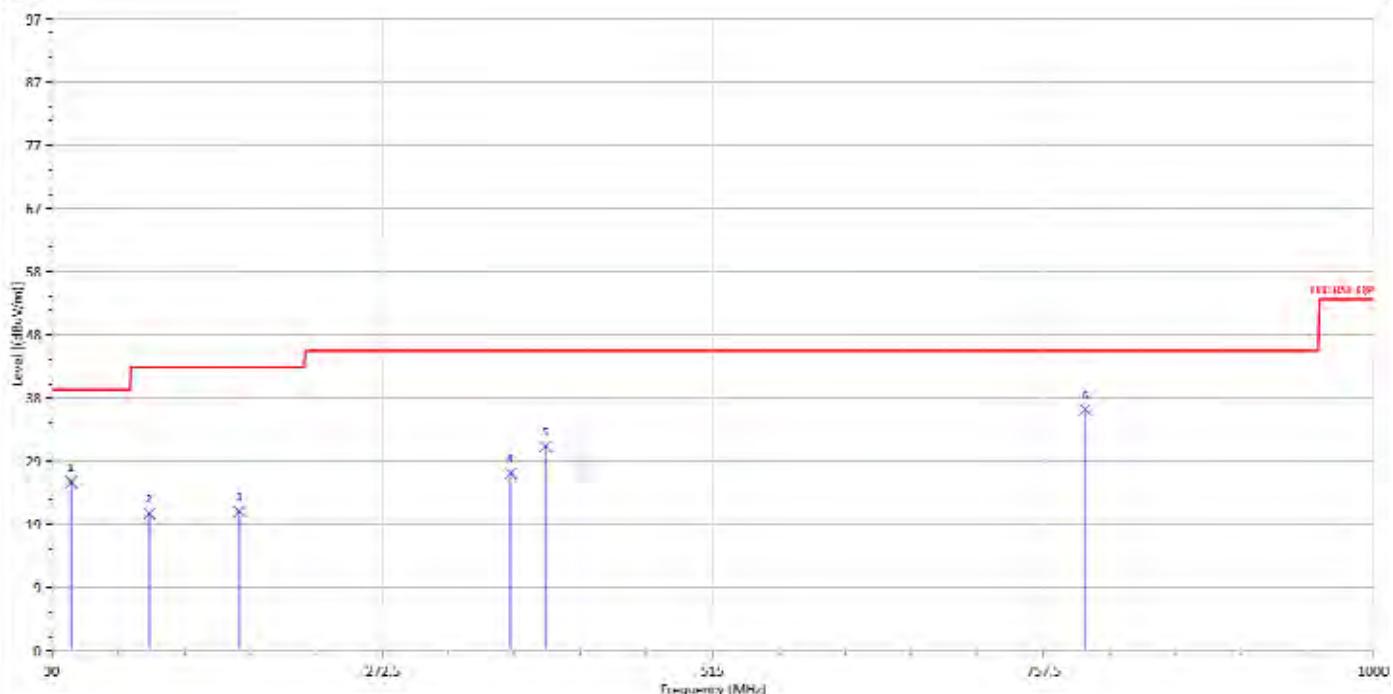
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**802.11a, 5725~5850 MHz**

Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level dB $\mu$ V				
44.55	S	QP	47.98	-22.12	25.86	40	-14.14	
101.78	S	Peak	44.59	-23.54	21.05	43.5	-22.45	
167.74	S	Peak	45.03	-23.65	21.37	43.5	-22.13	
366.59	S	Peak	44.09	-16.91	27.18	46	-18.82	
392.78	S	Peak	47.46	-16.16	31.30	46	-14.70	
788.54	S	Peak	46.91	-9.87	37.04	46	-8.96	

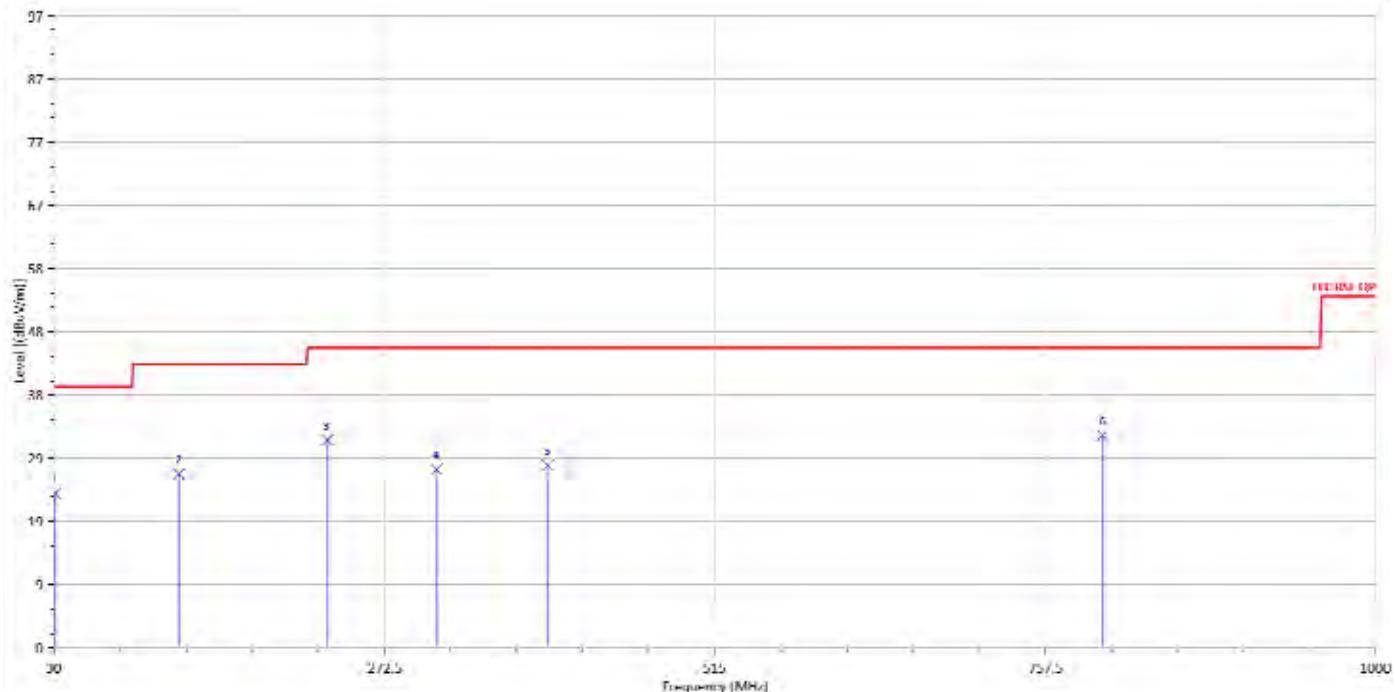
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Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading dB $\mu$ V	Level dB $\mu$ V/m				
30.97	S	Peak	37.35	-13.64	23.71	40	-16.29	
122.15	S	Peak	47.98	-21.40	26.58	43.5	-16.92	
230.79	S	Peak	54.06	-22.20	31.86	46	-14.14	
311.30	S	Peak	46.00	-18.71	27.29	46	-18.71	
392.78	S	Peak	44.09	-16.16	27.93	46	-18.07	
800.18	S	Peak	42.09	-9.49	32.60	46	-13.40	

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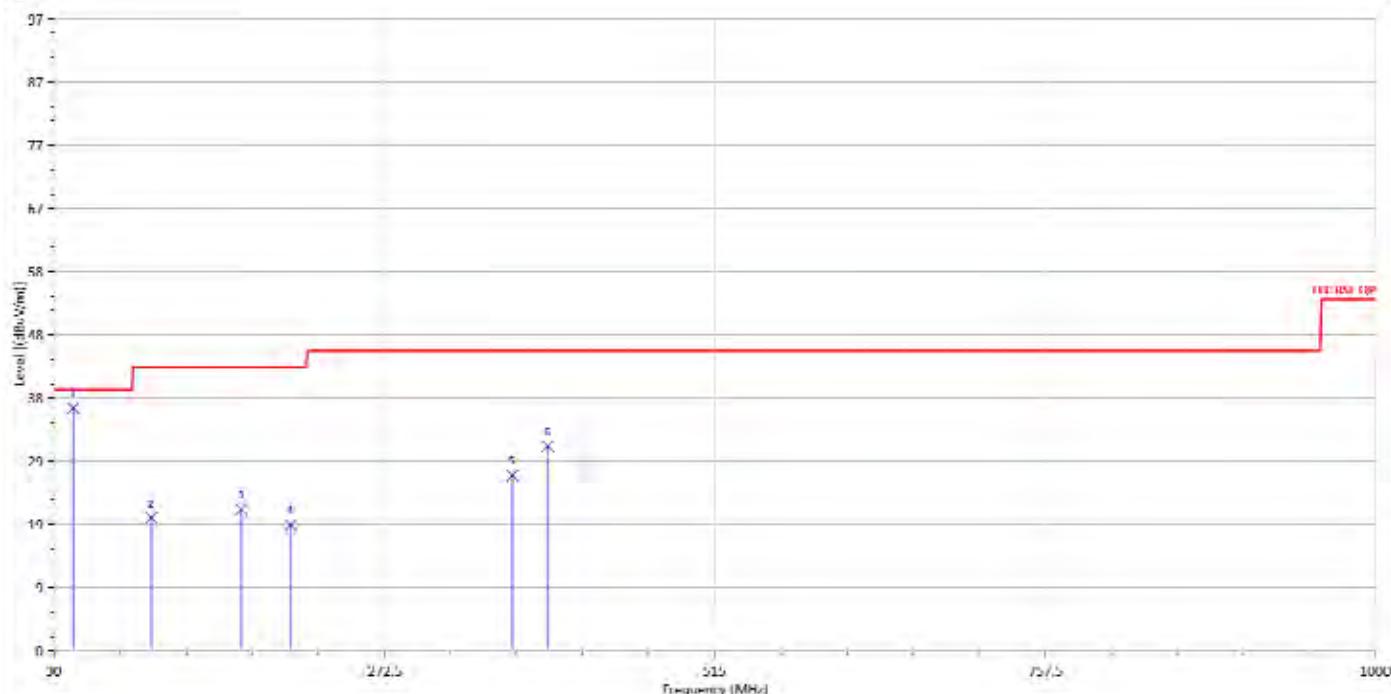
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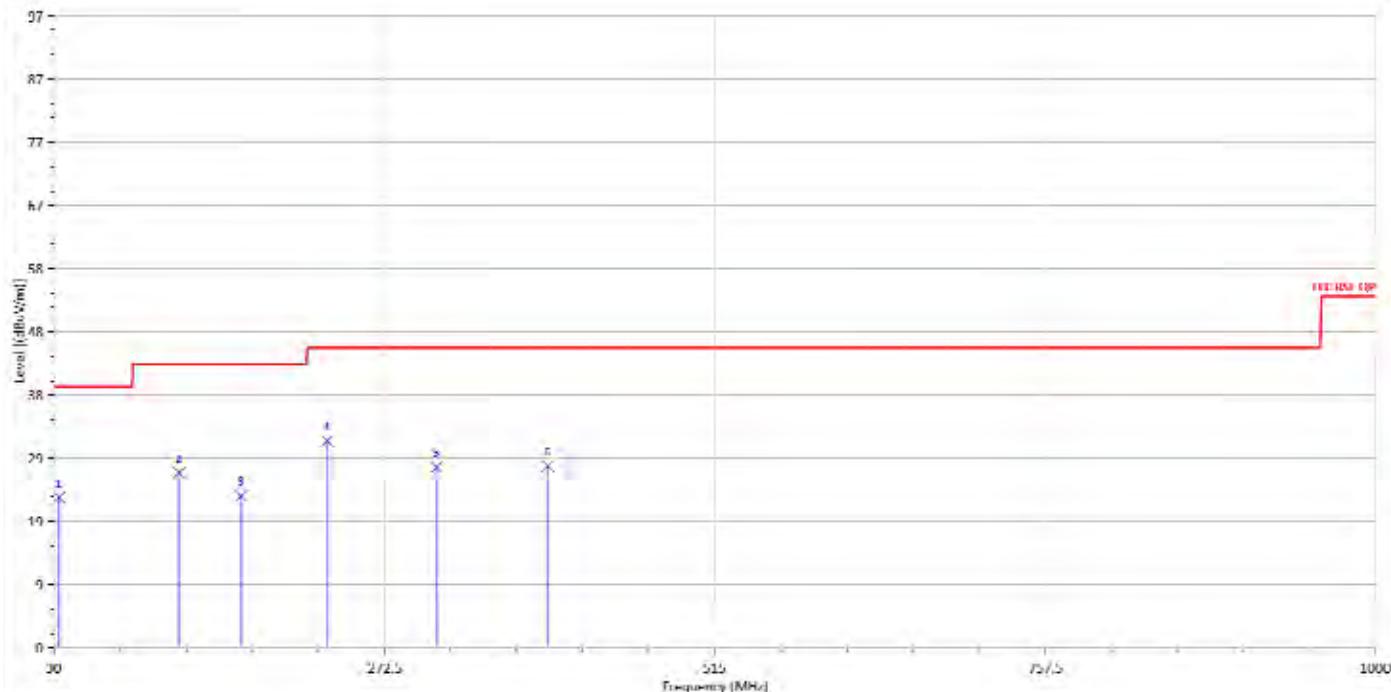
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## 802.11ac VHT80, 5150~5250 MHz

Operation Mode : 802.11ac80      Test Date : 2016/1/18  
 Fundamental Frequency : 5210 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Operation Mode : 802.11ac80 Test Date : 2016/1/18  
Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level dB $\mu$ V				
33.88	S	Peak	38.30	38.30	-15.22	23.08	40	-16.92
122.15	S	Peak	48.19	48.19	-21.40	26.79	43.5	-16.71
167.74	S	Peak	46.96	46.96	-23.65	23.31	43.5	-20.19
230.79	S	Peak	53.89	53.89	-22.20	31.70	46	-14.30
311.30	S	Peak	46.36	46.36	-18.71	27.66	46	-18.35
392.78	S	Peak	43.95	43.95	-16.16	27.79	46	-18.21

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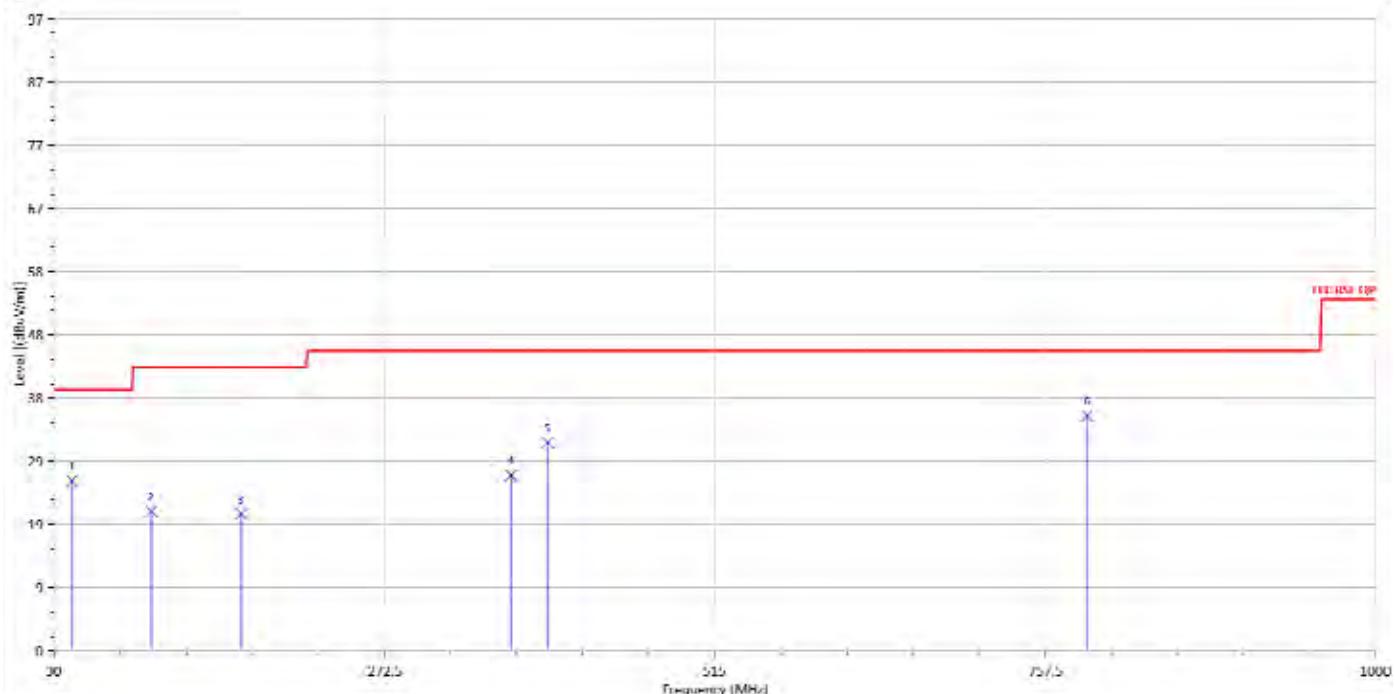
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**802.11ac VHT80, 5250~5350 MHz**

Operation Mode : 802.11ac80 Test Date : 2016/1/18  
Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level				
43.58	S	QP	47.50		-21.44	26.06	40	-13.94
101.78	S	Peak	44.95		-23.54	21.41	43.5	-22.09
167.74	S	Peak	44.67		-23.65	21.01	43.5	-22.49
365.62	S	Peak	43.75		-16.92	26.83	46	-19.17
392.78	S	Peak	48.06		-16.16	31.90	46	-14.10
788.54	S	Peak	45.95		-9.87	36.09	46	-9.91

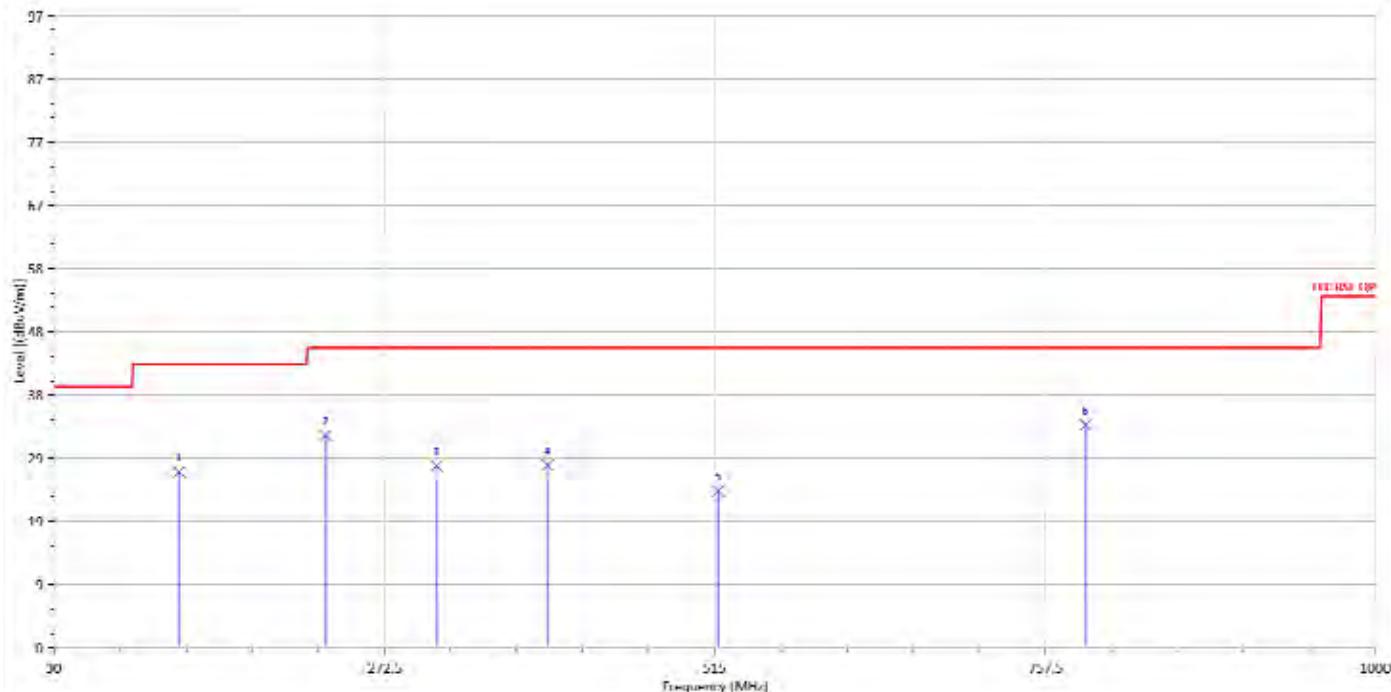
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Operation Mode : 802.11ac80      Test Date : 2016/1/18  
Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
122.15	S	Peak	48.28	-21.40	26.88	43.5	-16.62
229.82	S	Peak	54.90	-22.31	32.59	46	-13.41
311.30	S	Peak	46.56	-18.71	27.85	46	-18.15
392.78	S	Peak	44.12	-16.16	27.96	46	-18.04
517.91	S	Peak	37.70	-13.60	24.09	46	-21.91
787.57	S	Peak	44.12	-9.93	34.19	46	-11.81

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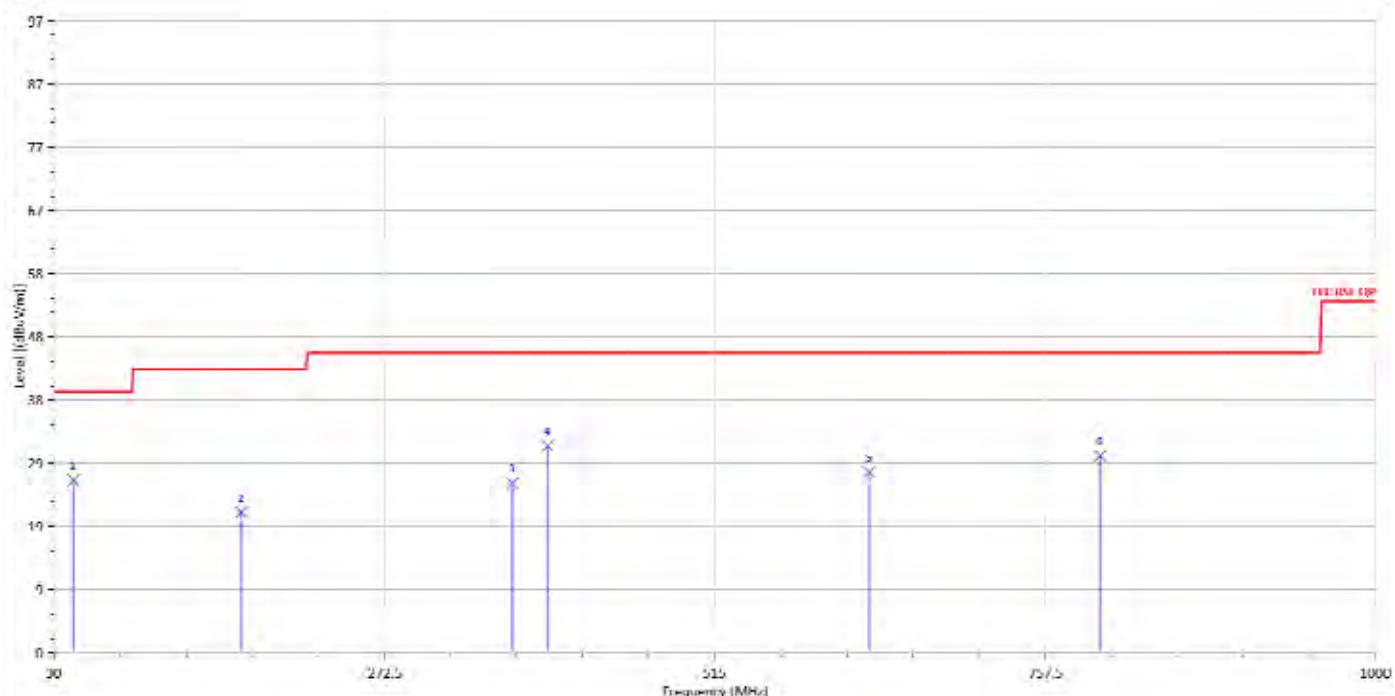
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**802.11ac VHT80, 5470~5725 MHz**

Operation Mode : 802.11ac80 Test Date : 2016/1/18  
Fundamental Frequency : 5610 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level				
44.55	S	QP	48.52		-22.12	26.40	40	-13.60
167.74	S	Peak	45.23		-23.65	21.58	43.5	-21.92
366.59	S	Peak	42.83		-16.91	25.92	46	-20.08
392.78	S	Peak	47.90		-16.16	31.74	46	-14.26
628.49	S	Peak	39.54		-11.93	27.60	46	-18.40
798.24	S	Peak	39.74		-9.55	30.19	46	-15.81

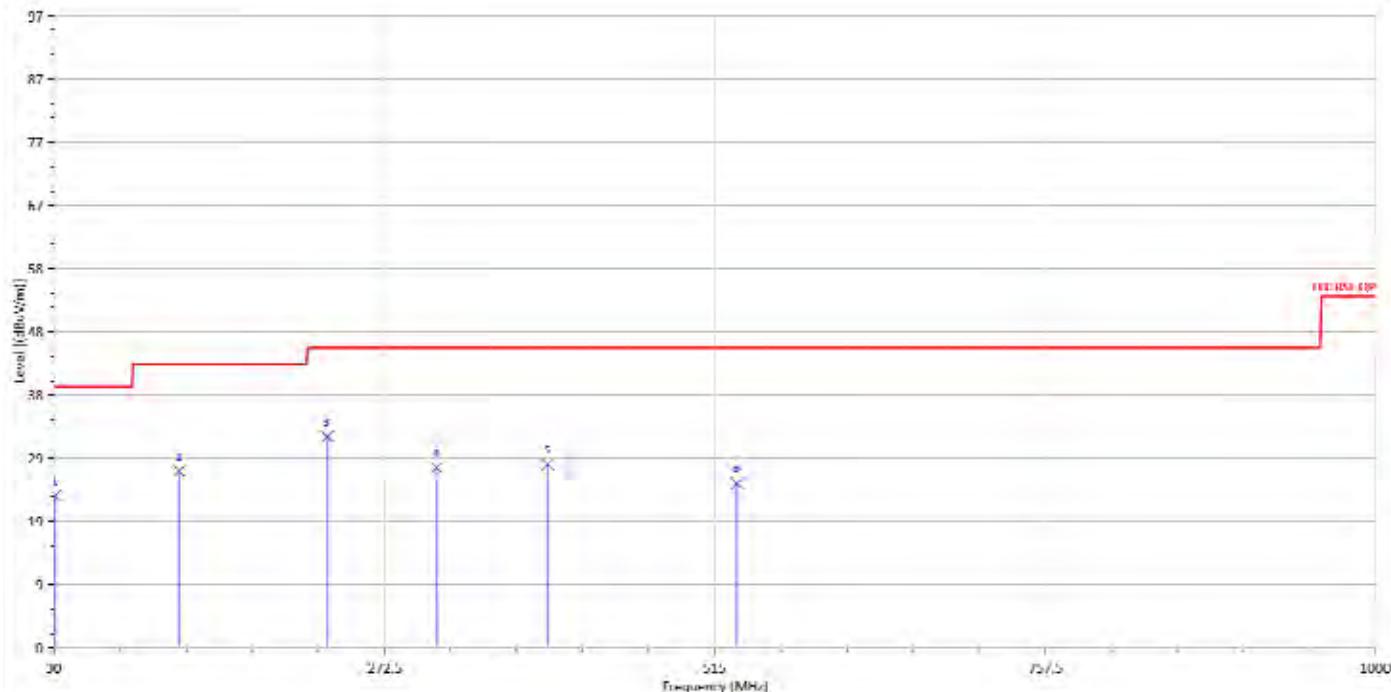
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Operation Mode : 802.11ac80      Test Date : 2016/1/18  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
30.97	S	Peak	36.97	-13.64	23.33	40	-16.67
122.15	S	Peak	48.43	-21.40	27.03	43.5	-16.47
230.79	S	Peak	54.59	-22.20	32.39	46	-13.61
311.30	S	Peak	46.26	-18.71	27.55	46	-18.45
392.78	S	Peak	44.24	-16.16	28.08	46	-17.92
531.49	S	Peak	38.52	-13.28	25.23	46	-20.77

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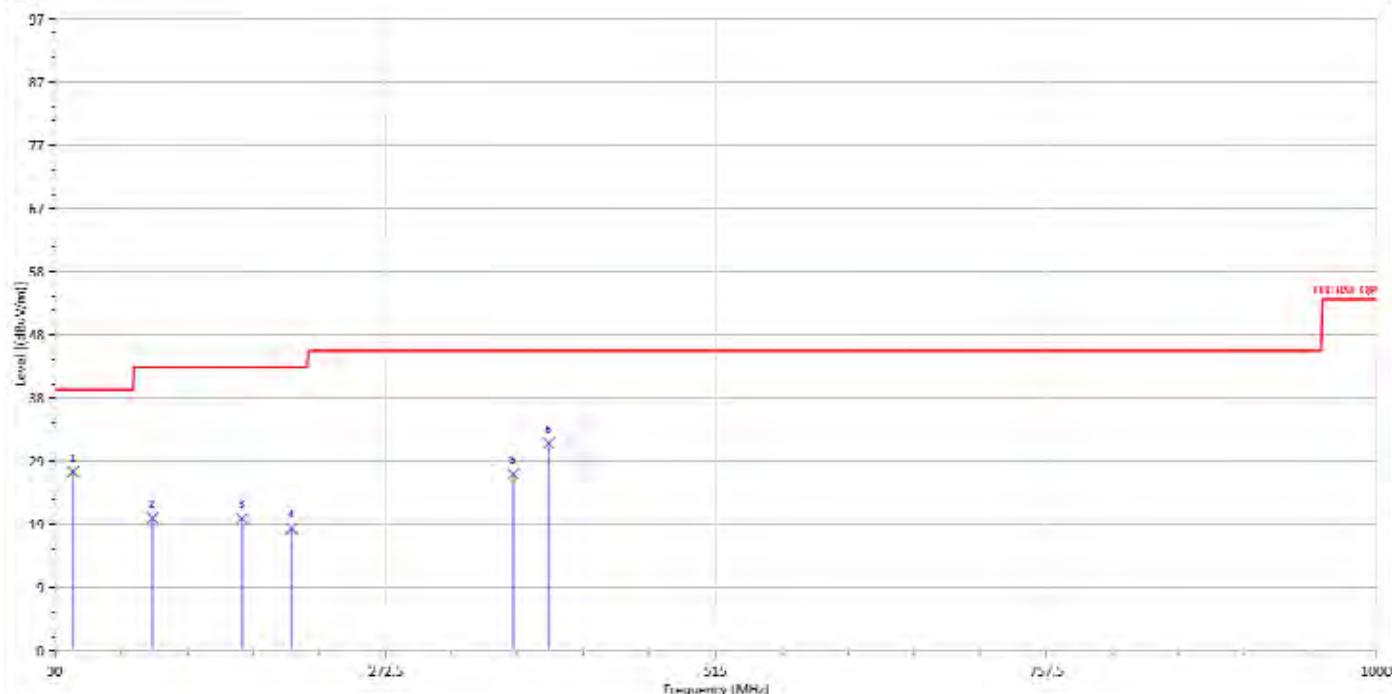
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## 802.11ac VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80      Test Date : 2016/1/18  
 Fundamental Frequency : 5775 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			Reading	Level dB $\mu$ V				
43.58	S	QP	48.82	-21.44	27.38	40	-12.62	
101.78	S	Peak	43.88	-23.54	20.34	43.5	-23.16	
167.74	S	Peak	43.93	-23.65	20.28	43.5	-23.22	
203.63	S	Peak	41.81	-23.10	18.70	43.5	-24.80	
366.59	S	Peak	43.93	-16.91	27.02	46	-18.98	
392.78	S	Peak	47.98	-16.16	31.82	46	-14.18	

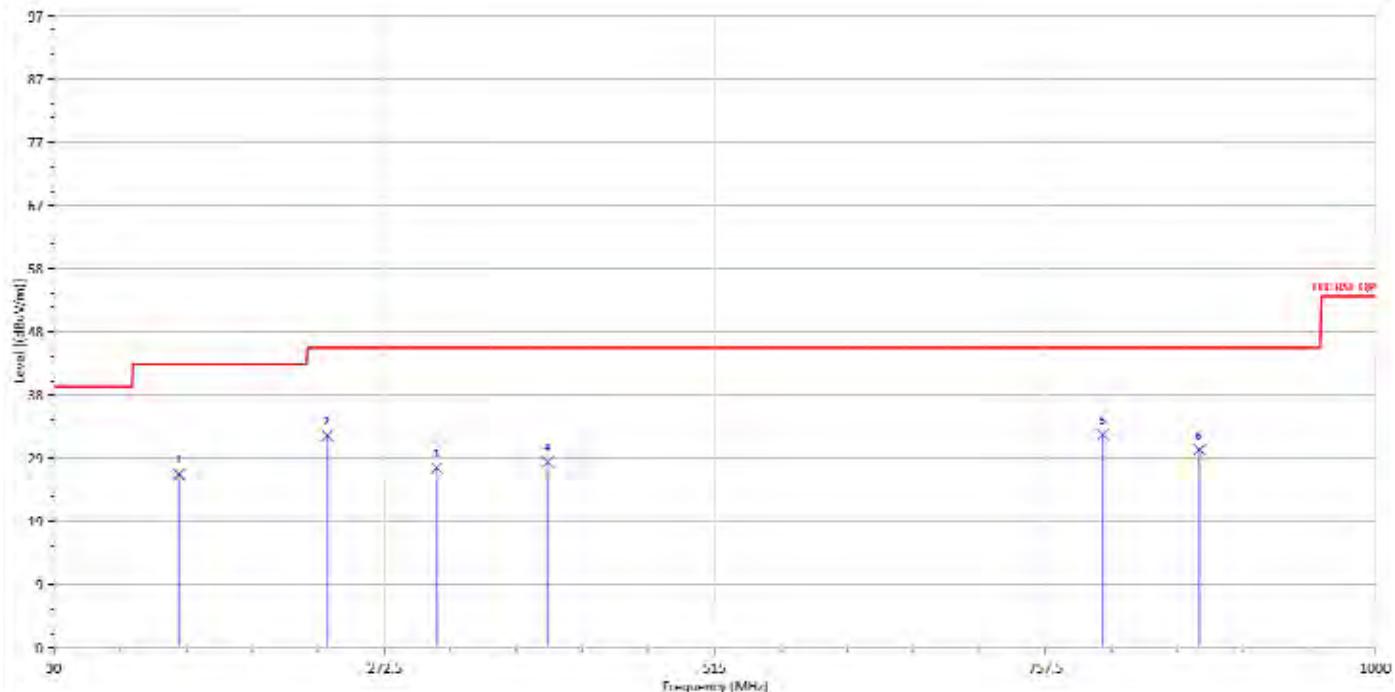
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Operation Mode : 802.11ac80      Test Date : 2016/1/18  
 Fundamental Frequency : 5775 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
122.15	S	Peak	47.94	-21.40	26.54	43.5	-16.96
230.79	S	Peak	54.75	-22.20	32.56	46	-13.44
311.30	S	Peak	46.24	-18.71	27.53	46	-18.47
392.78	S	Peak	44.63	-16.16	28.47	46	-17.53
800.18	S	Peak	42.16	-9.49	32.67	46	-13.33
870.99	S	Peak	38.56	-8.21	30.35	46	-15.65

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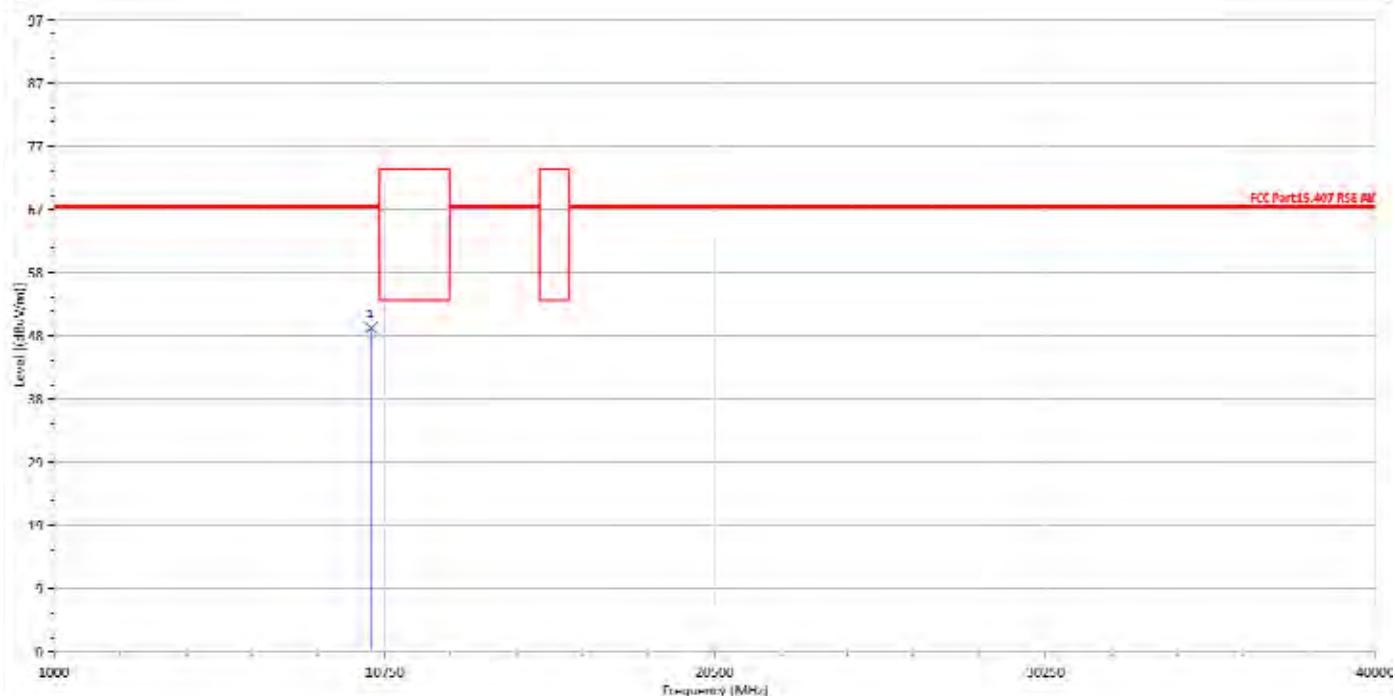
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## Above 1GHz Worst-Case Data:

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

Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10360.00	H	Peak	30.81	18.94	49.75	68.3	-18.55

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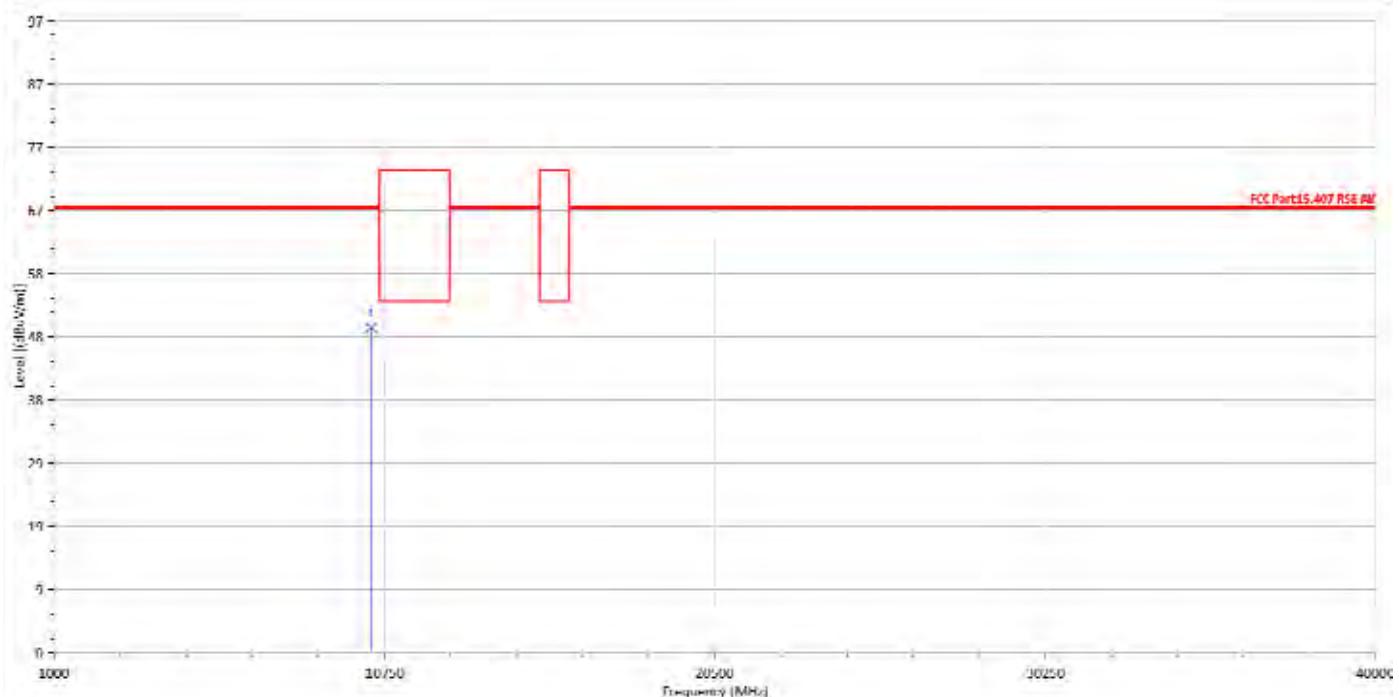
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Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10360.00	H	Peak	30.97	18.94	49.91	68.3	-18.39

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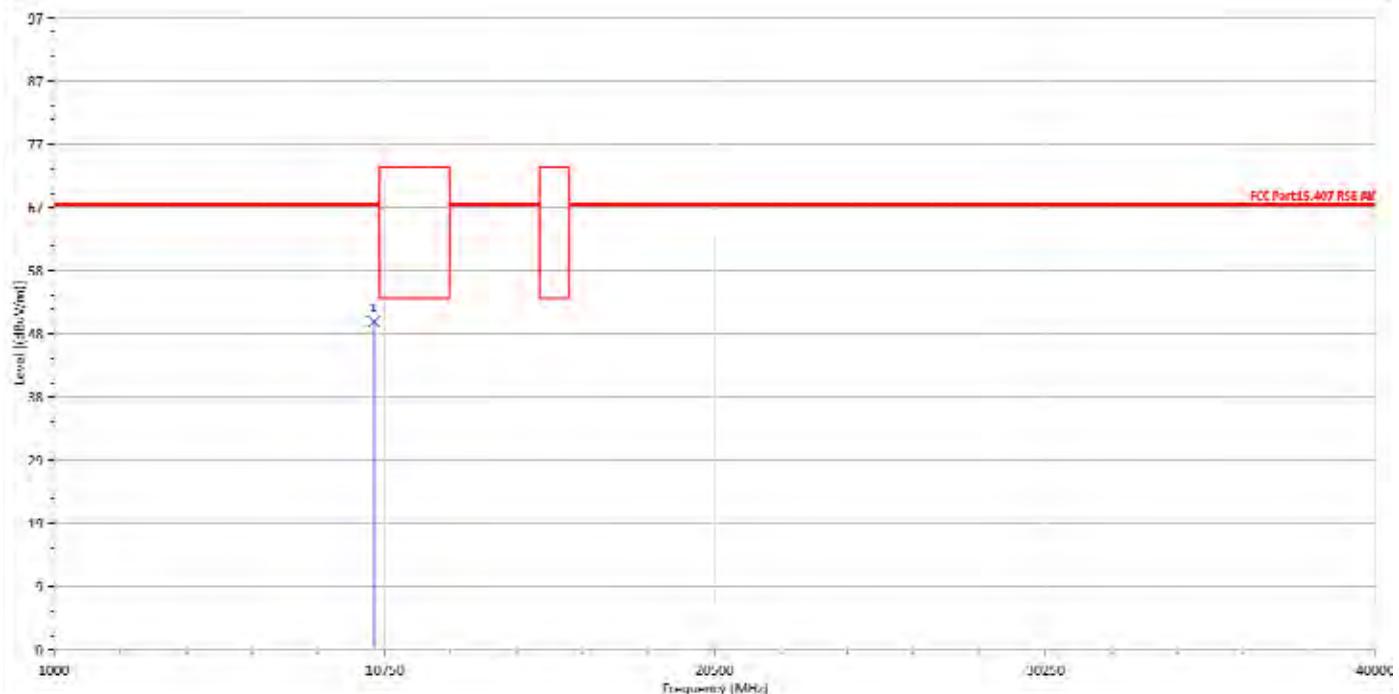
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10440.00	H	Peak	31.42	18.96	50.38	68.3	-17.92

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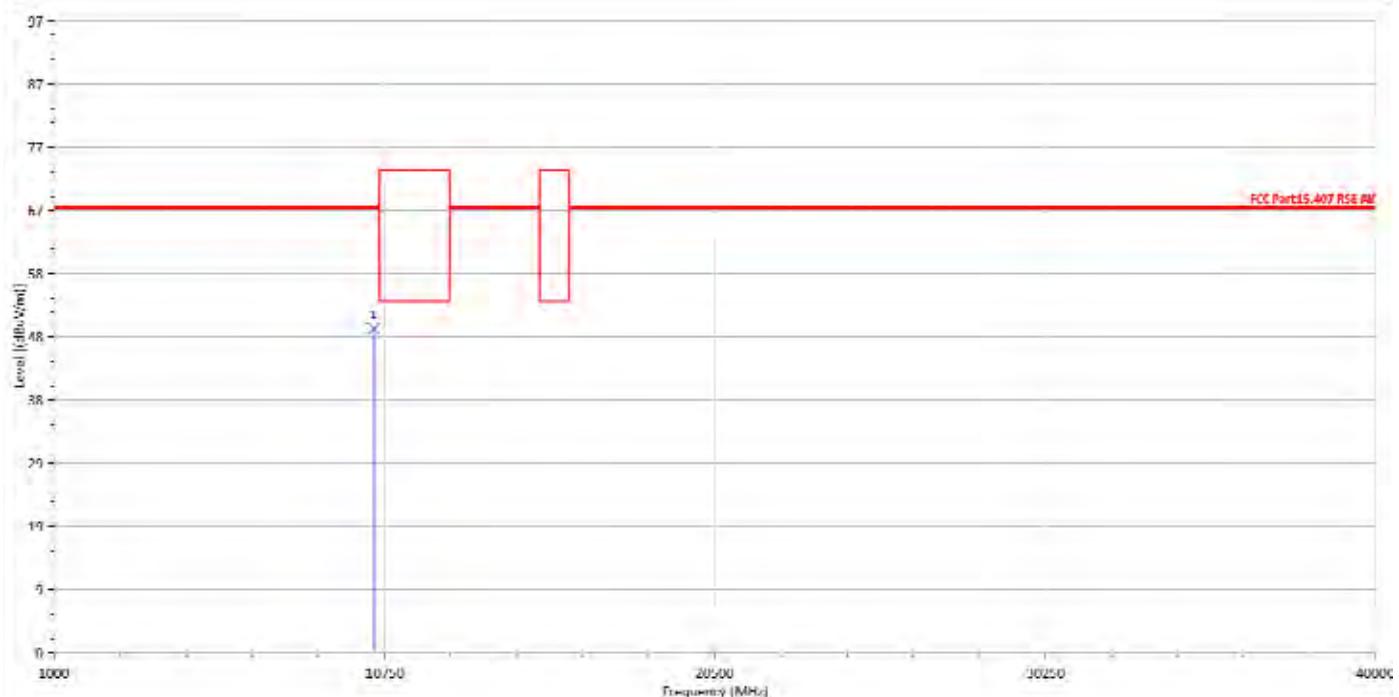
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Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10440.00	H	Peak	30.80	18.96	49.77	68.3	-18.53

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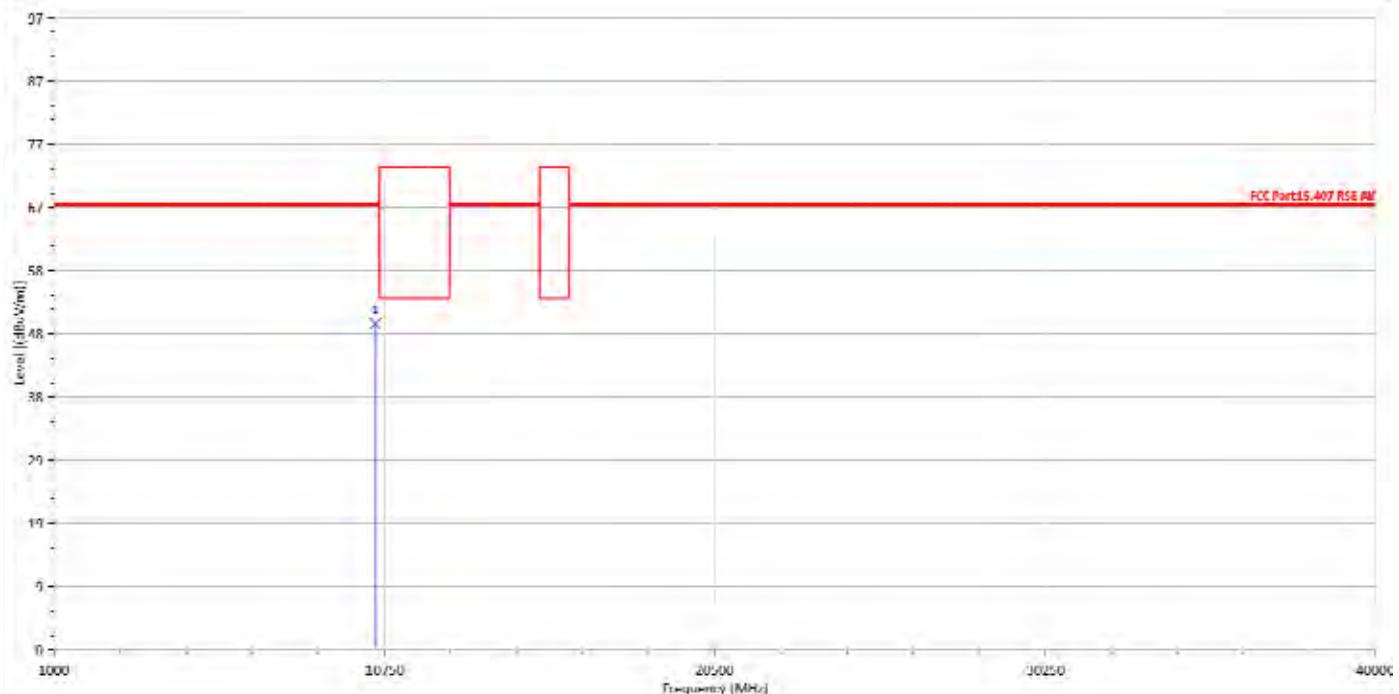
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
10480.00	H	PK/QP/AV	30.94	19.13	50.07	68.3	-18.23

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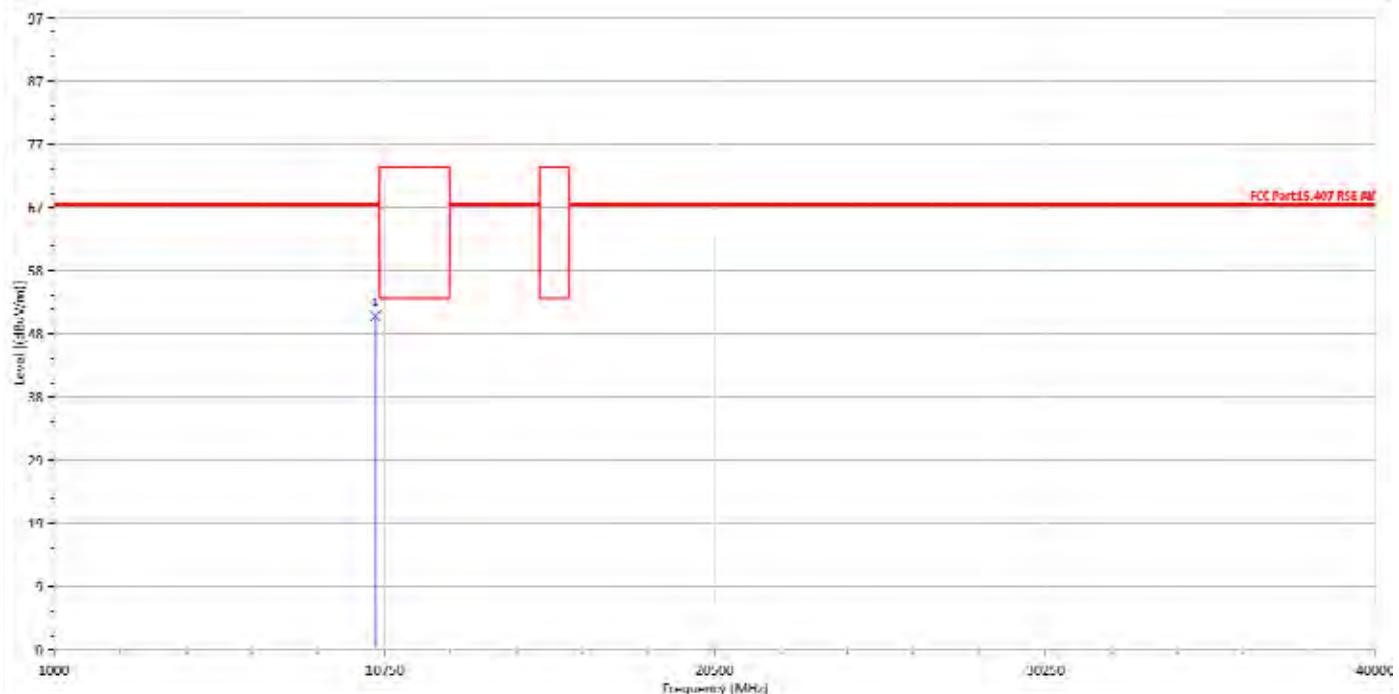
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10480.00	H	Peak	32.12	19.13	51.25	68.3	-17.05

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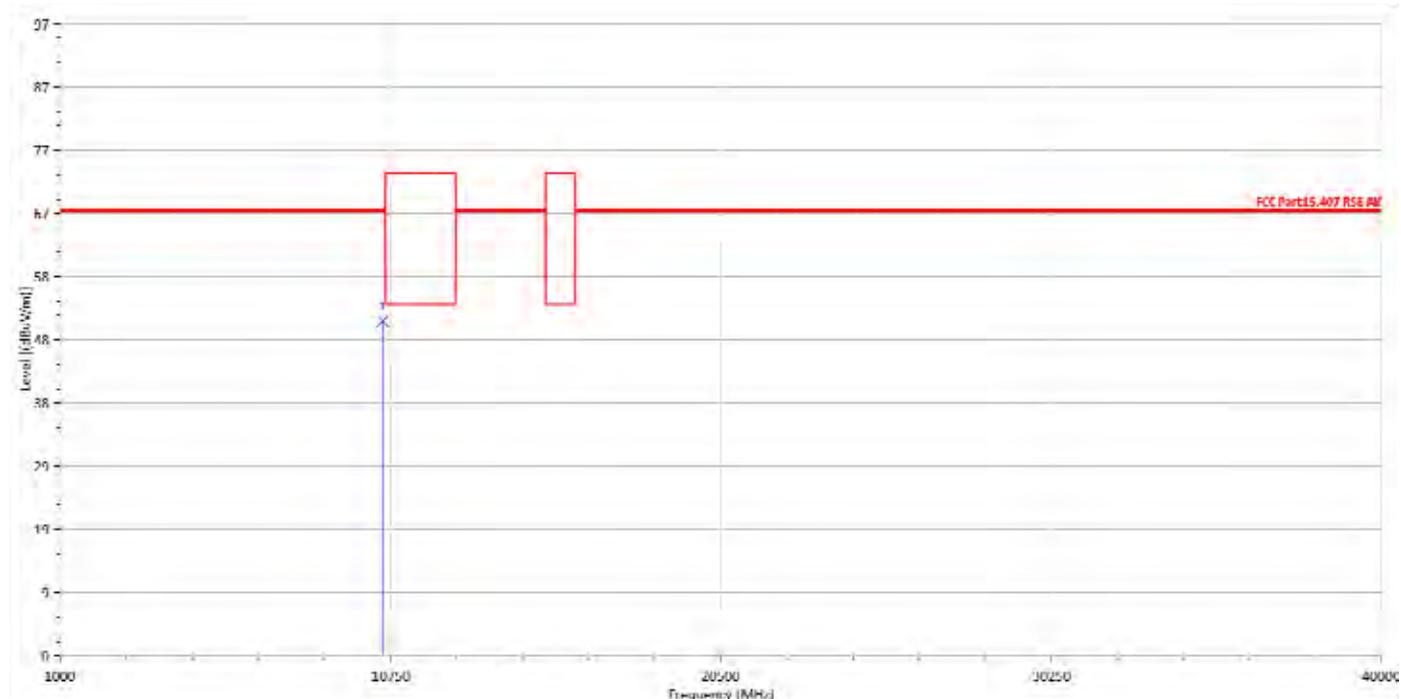
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## Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



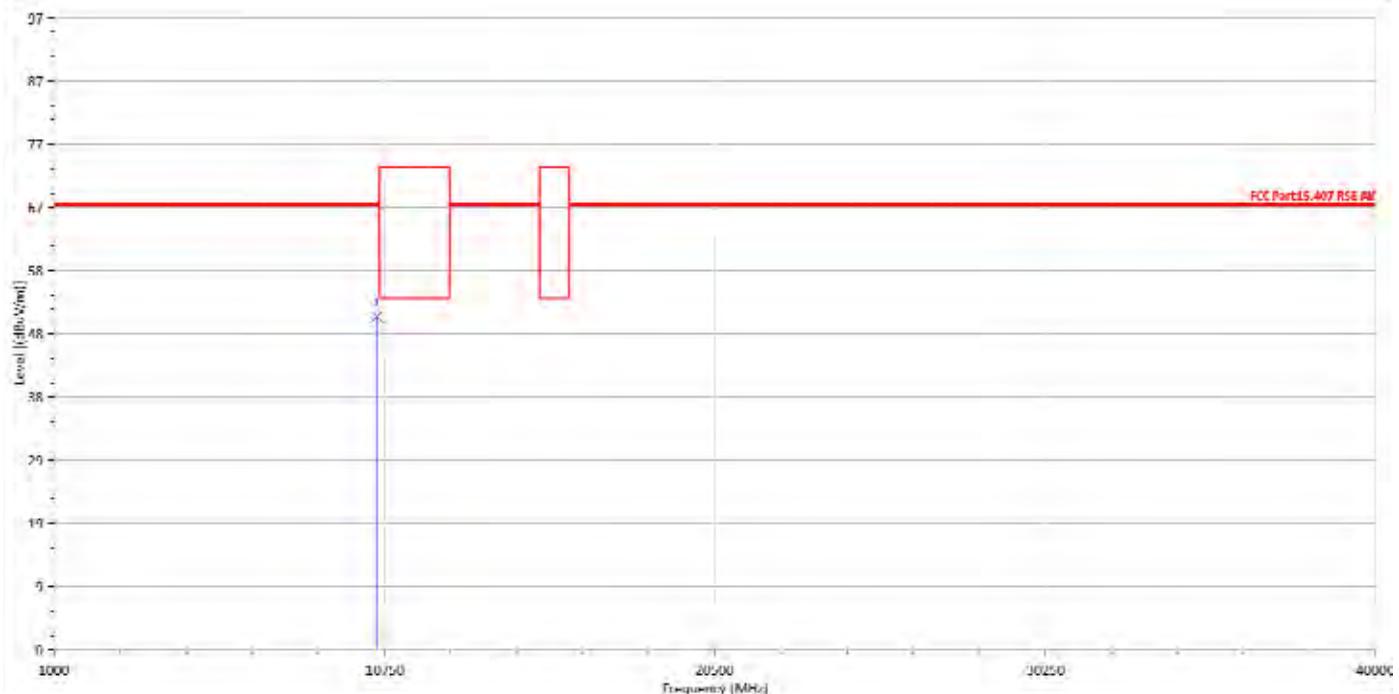
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10520.00	H	Peak	32.15	19.25	51.40	68.3	-16.90

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 Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10520.00	H	Peak	31.88	19.25	51.13	68.3	-17.17

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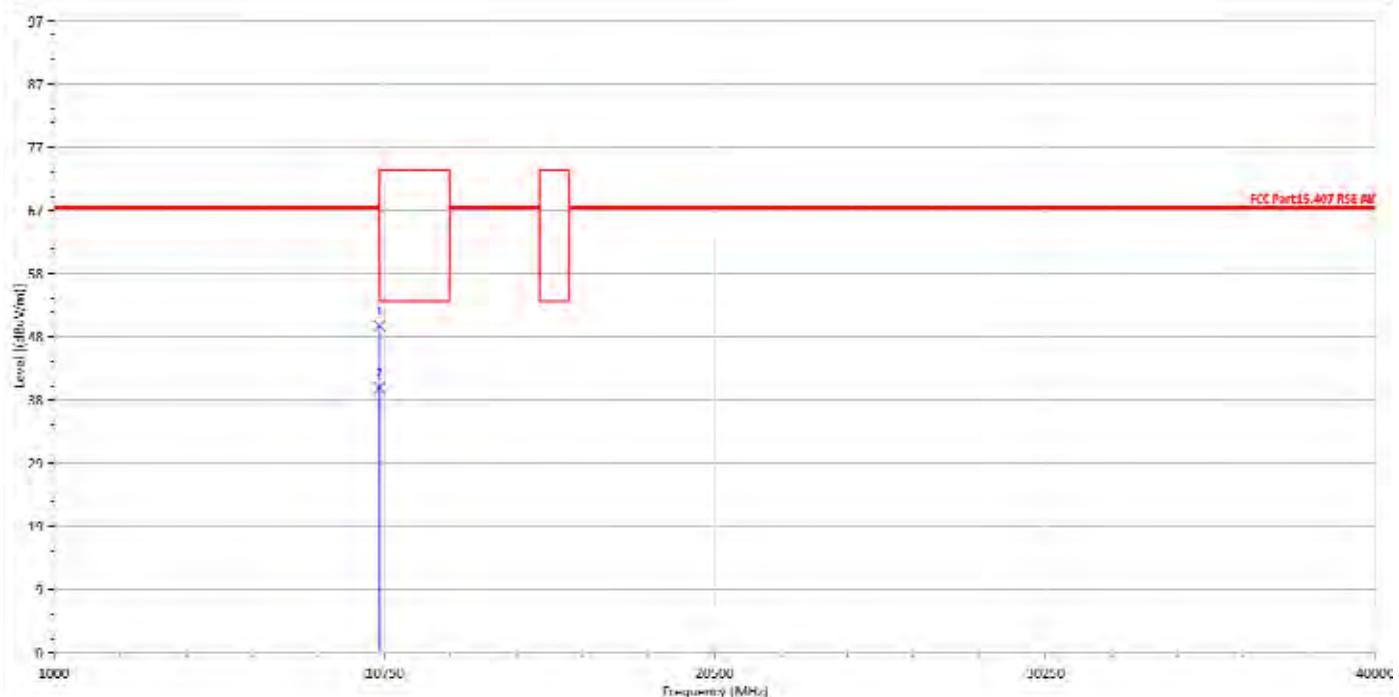
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10600.00	H	Peak	30.84	19.38	50.22	74	-23.78
10600.00	H	Average	21.27	19.38	40.65	54	-13.35

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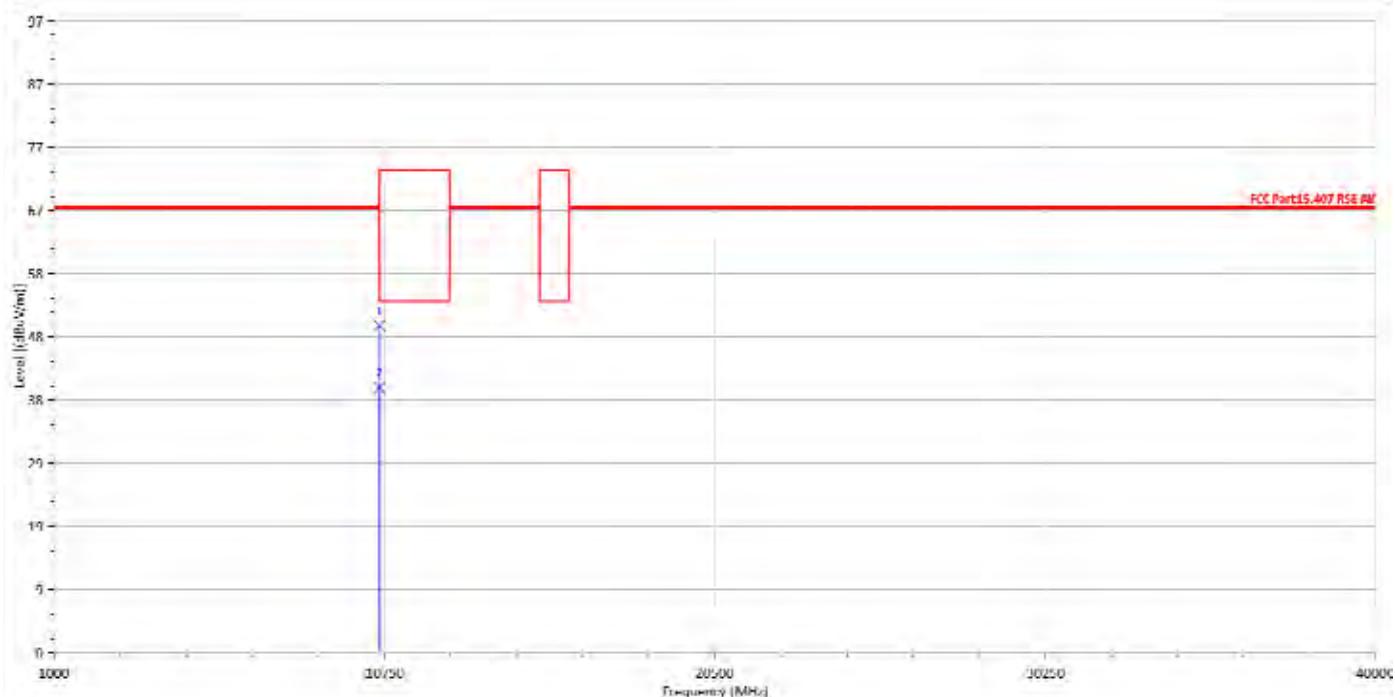
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	H	Peak	30.87	19.38	50.24	74	-23.76
10600.00	H	Average	21.27	19.38	40.65	54	-13.35

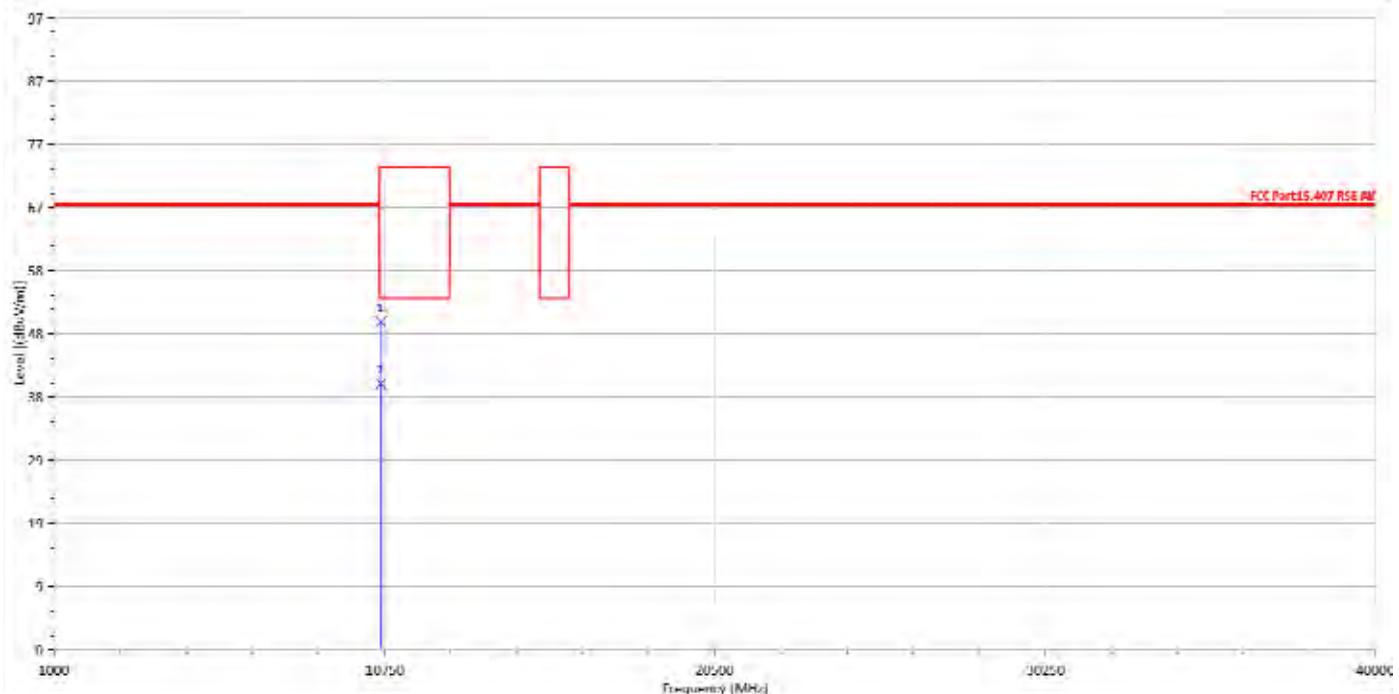
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	H	Peak	31.07	19.28	50.35	74	-23.65
10640.00	H	Average	21.47	19.28	40.75	54	-13.25

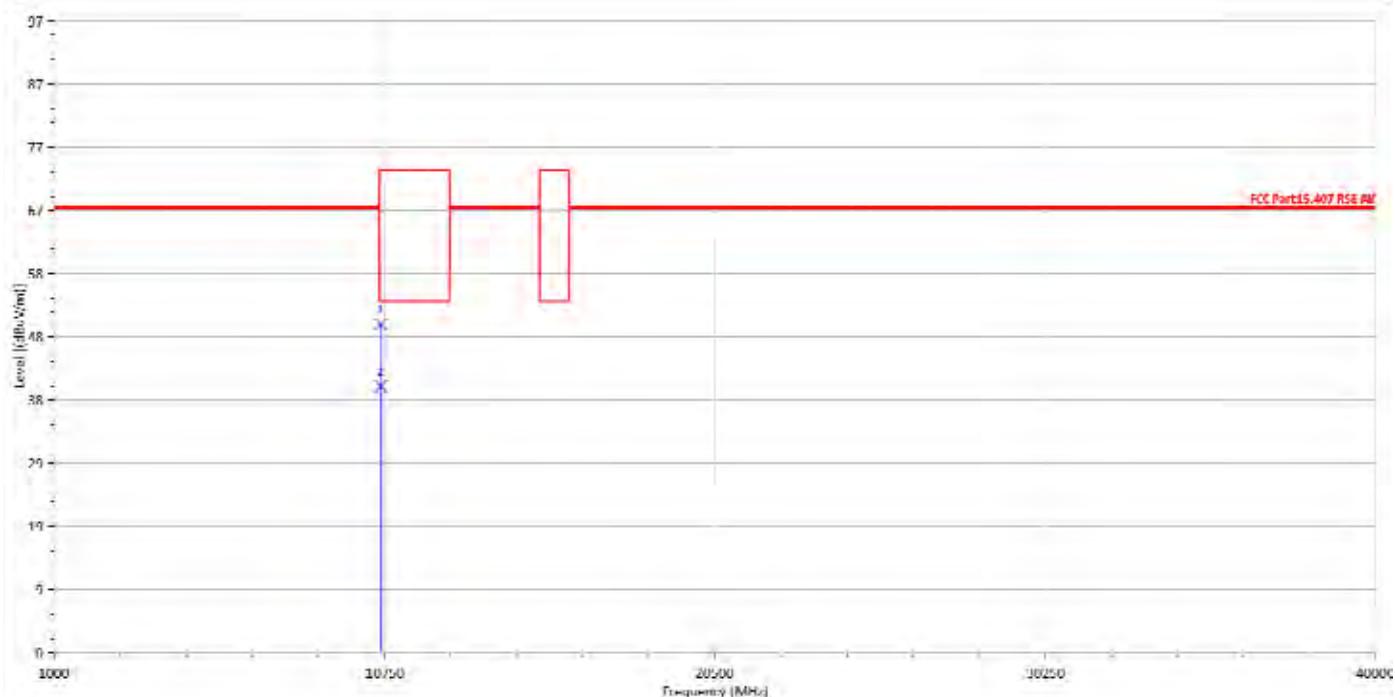
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	H	Peak	31.18	19.28	50.46	74	-23.54
10640.00	H	Average	21.58	19.28	40.86	54	-13.14

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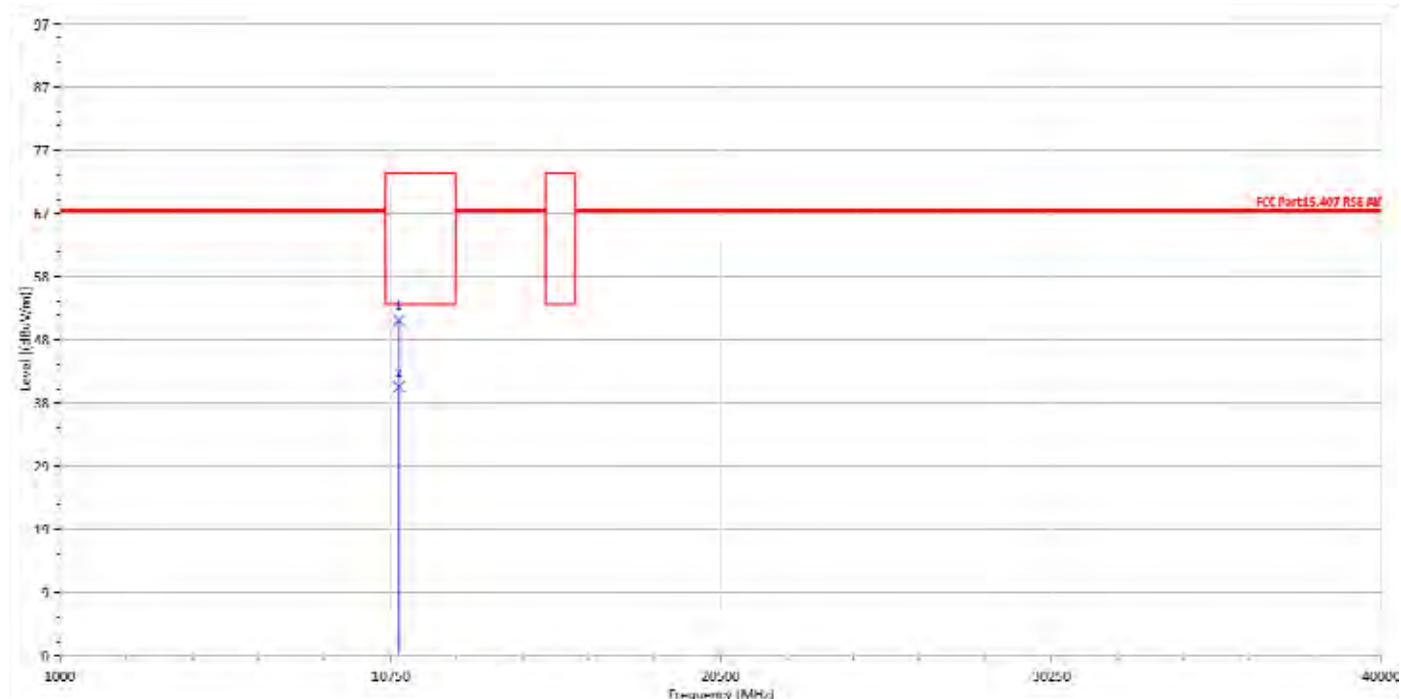
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## Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 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	31.46	20.02	51.48	74	-22.52
11000.00	H	Average	21.20	20.02	41.22	54	-12.78

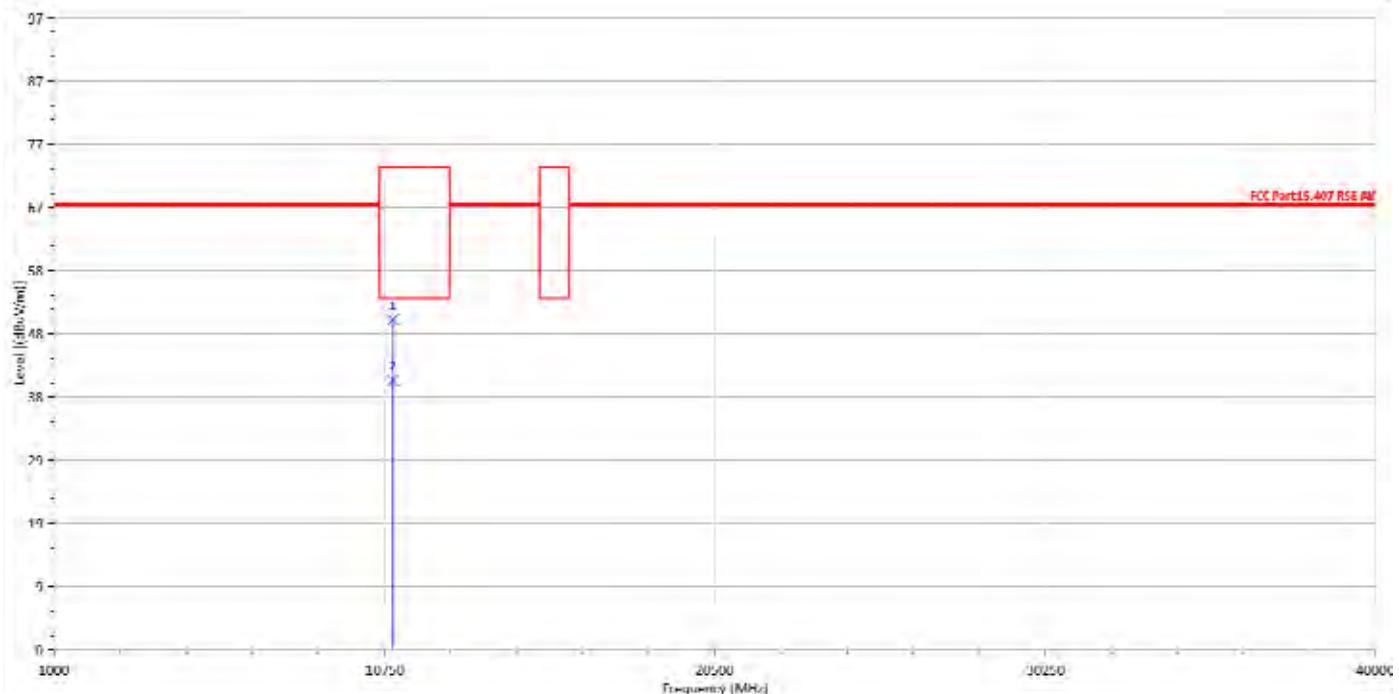
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11000.00	H	Peak	30.71	20.02	50.73	74	-23.27
11000.00	H	Average	21.23	20.02	41.25	54	-12.75

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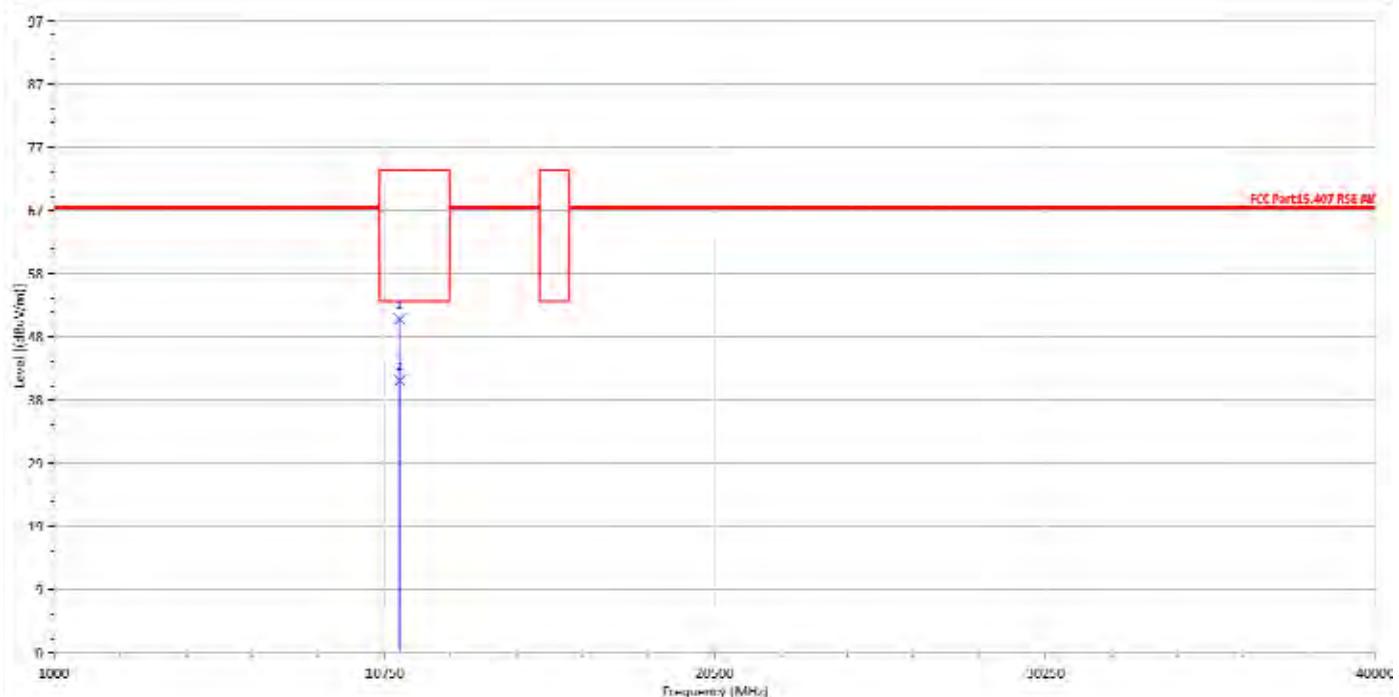
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Operation Mode : 802.11a Test Date : 2016/1/19  
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11160.00	H	Peak	30.84	20.38	51.22	74	-22.78
11160.00	H	Average	21.32	20.38	41.70	54	-12.30

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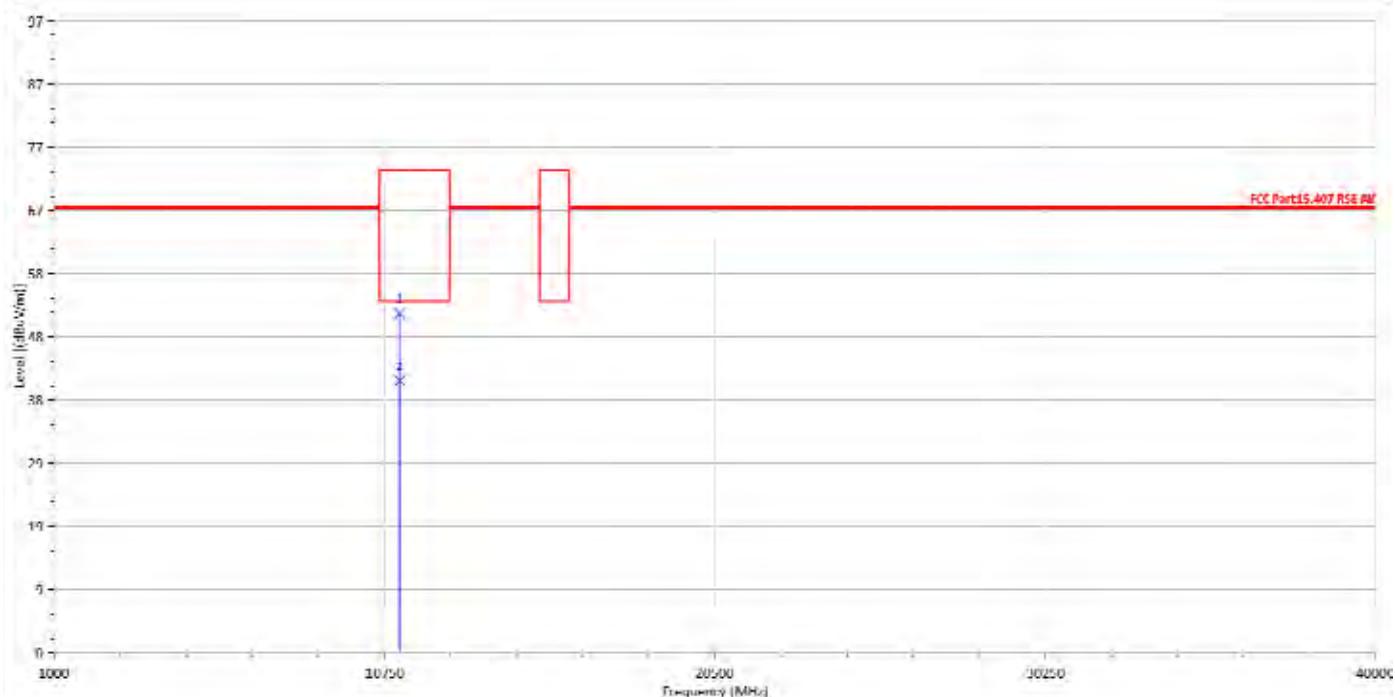
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Operation Mode : 802.11a      Test Date : 2016/1/19  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11160.00	H	Peak	31.74	20.38	52.12	74	-21.88
11160.00	H	Average	21.30	20.38	41.68	54	-12.32

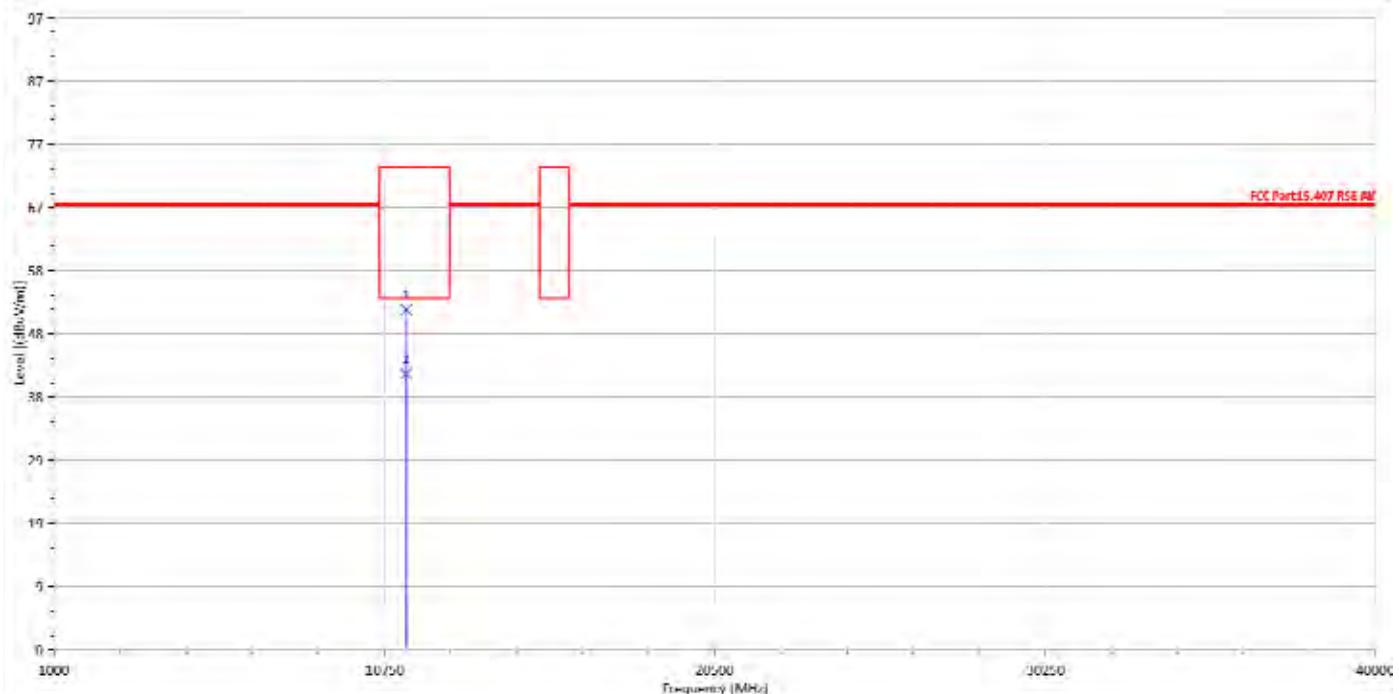
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Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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	31.44	20.81	52.25	74	-21.75
11400.00	H	Average	21.50	20.81	42.31	54	-11.69

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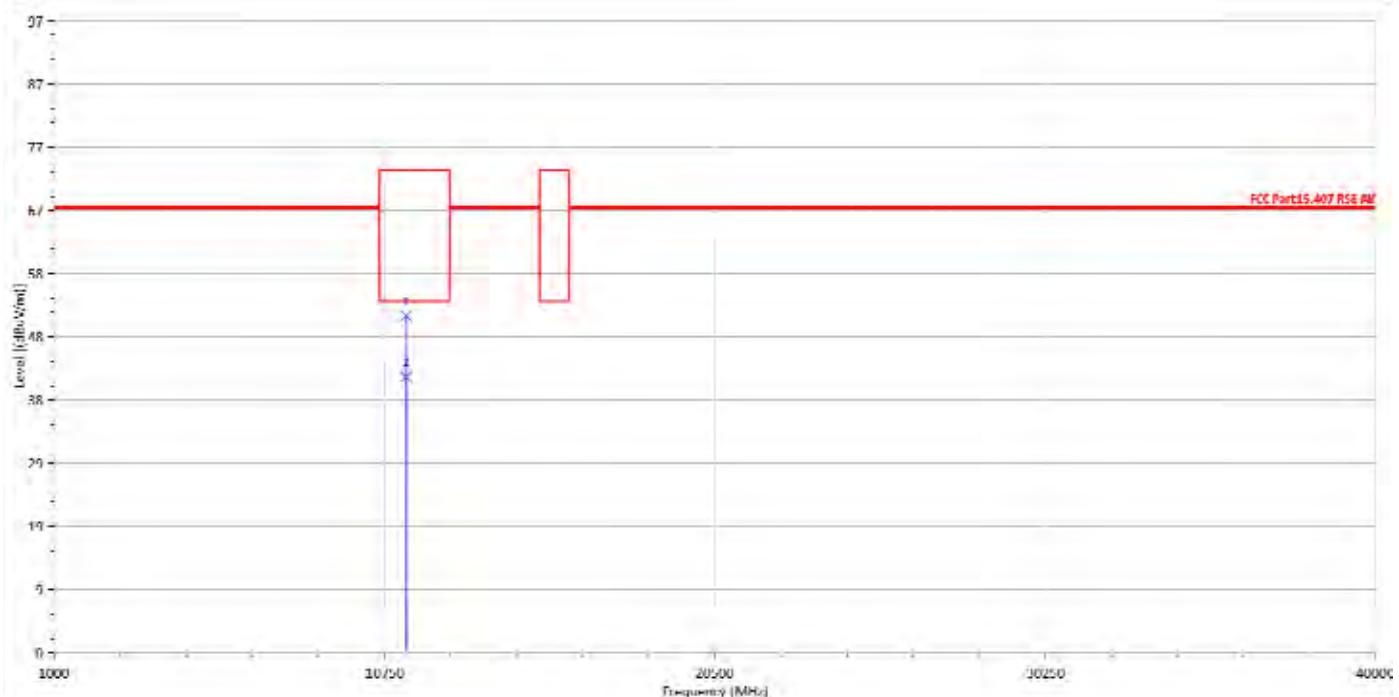
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11400.00	H	Peak	30.93	20.81	51.74	74	-22.26
11400.00	H	Average	21.48	20.81	42.29	54	-11.71

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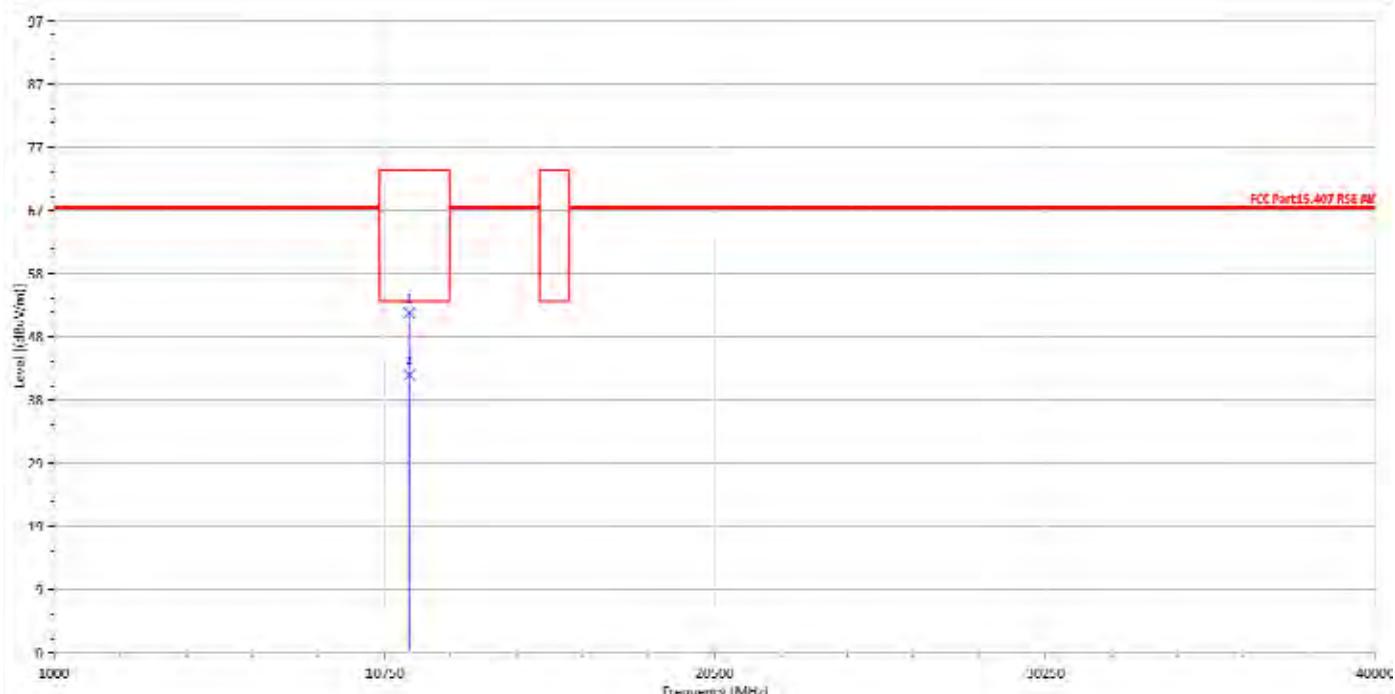
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## Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode : 802.11a Test Date : 2016/1/18  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11490.00	H	Peak	31.13	21.08	52.21	74	-21.79
11490.00	H	Average	21.50	21.08	42.58	54	-11.42

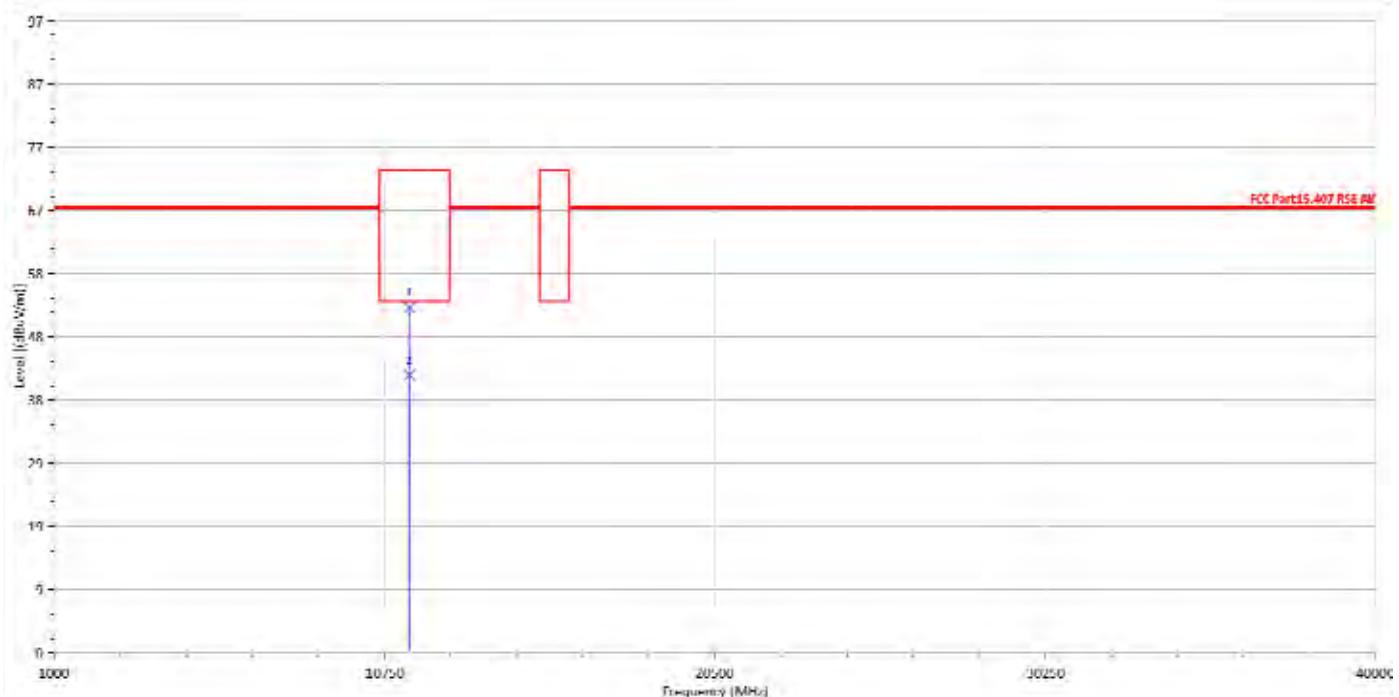
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.00	H	Peak	31.98	21.08	53.06	74	-20.94
11490.00	H	Average	21.50	21.08	42.58	54	-11.42

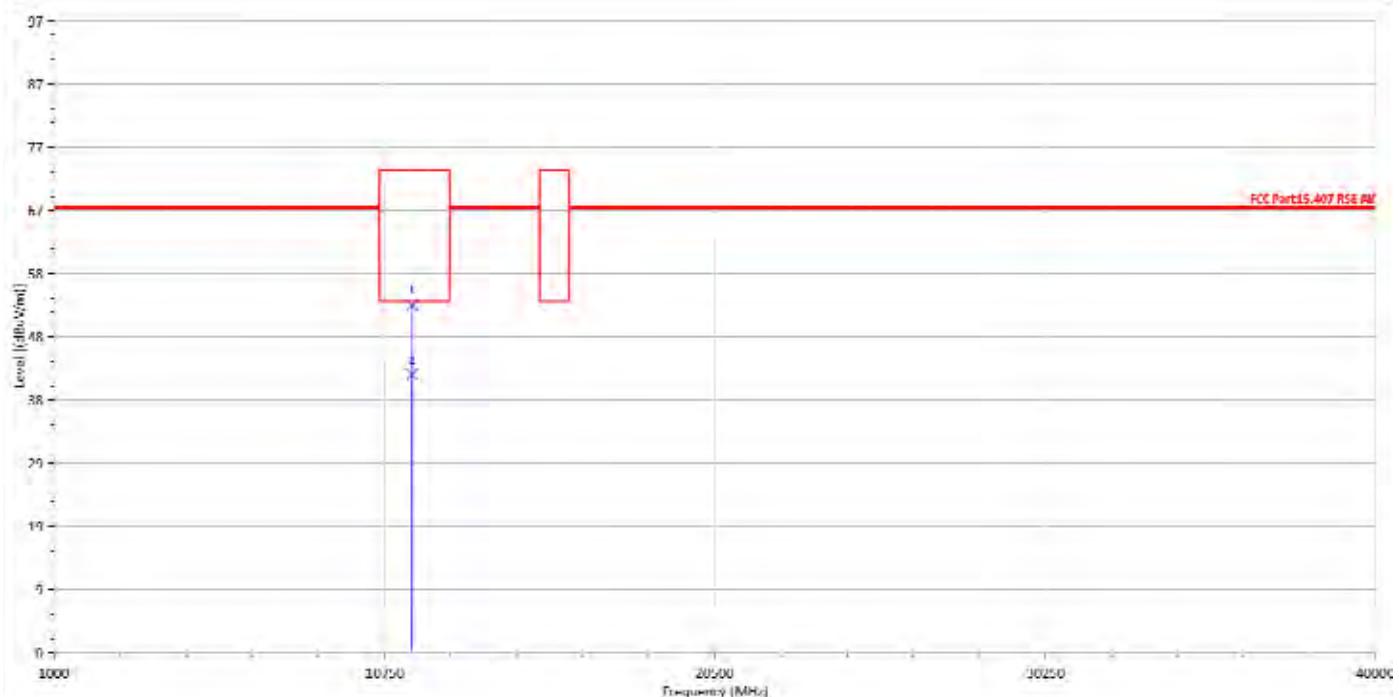
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.00	H	Peak	32.24	21.14	53.37	74	-20.63
11570.00	H	Average	21.52	21.14	42.66	54	-11.34

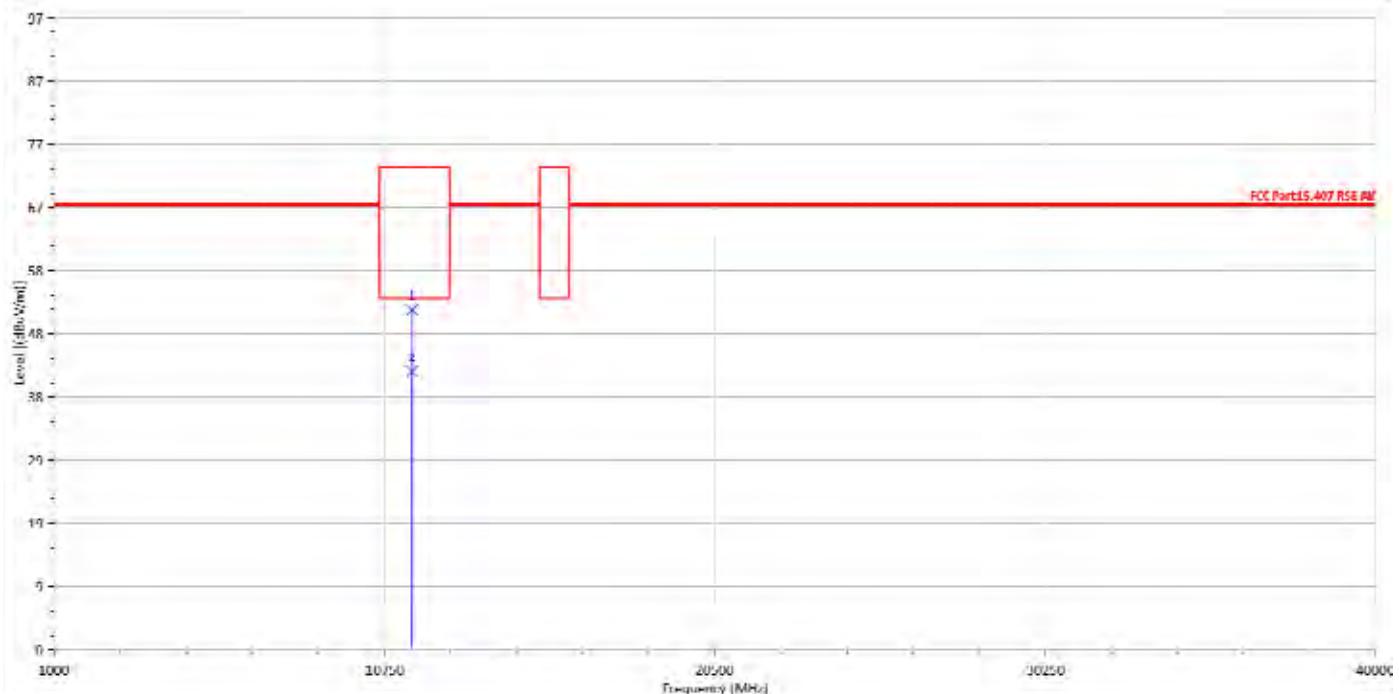
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11570.00	H	Peak	31.05	21.14	52.19	74	-21.81
11570.00	H	Average	21.52	21.14	42.66	54	-11.34

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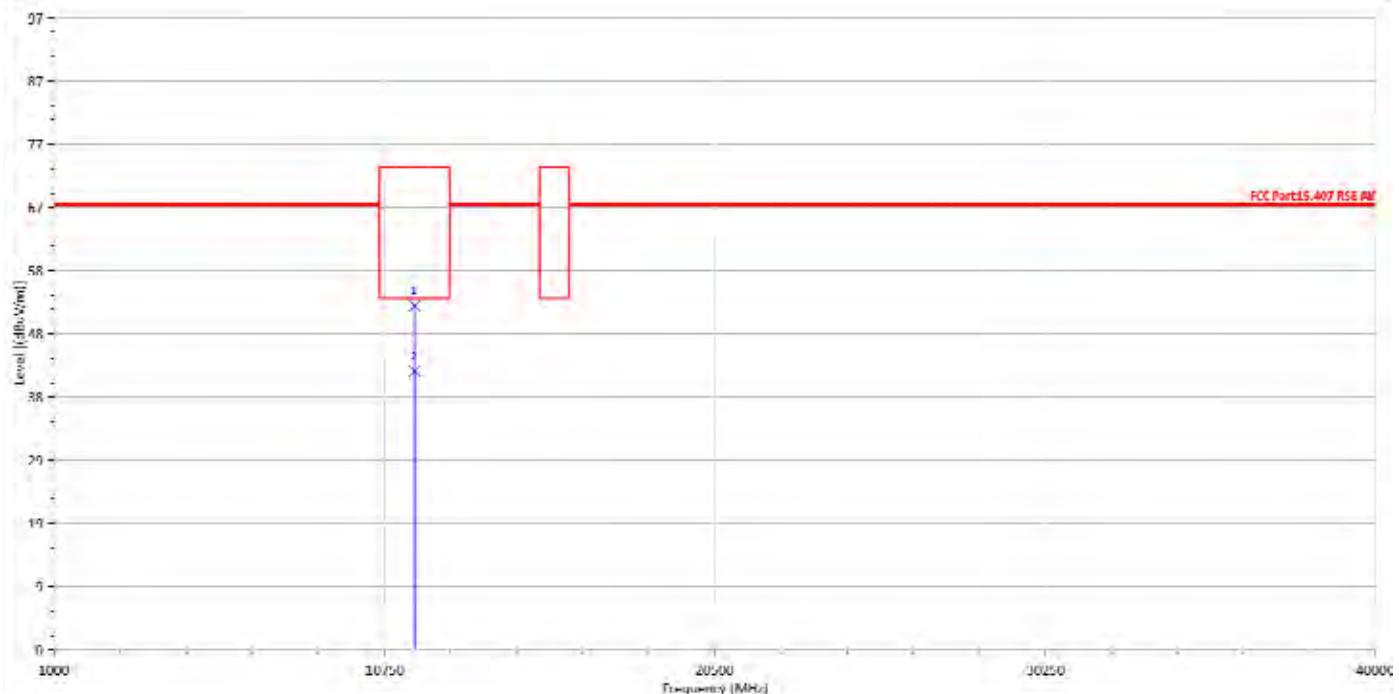
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
	F/H/E/S	PK/QP/AV					
11650.00	H	Peak	31.56	21.27	52.83	74	-21.17
11650.00	H	Average	21.46	21.27	42.73	54	-11.27

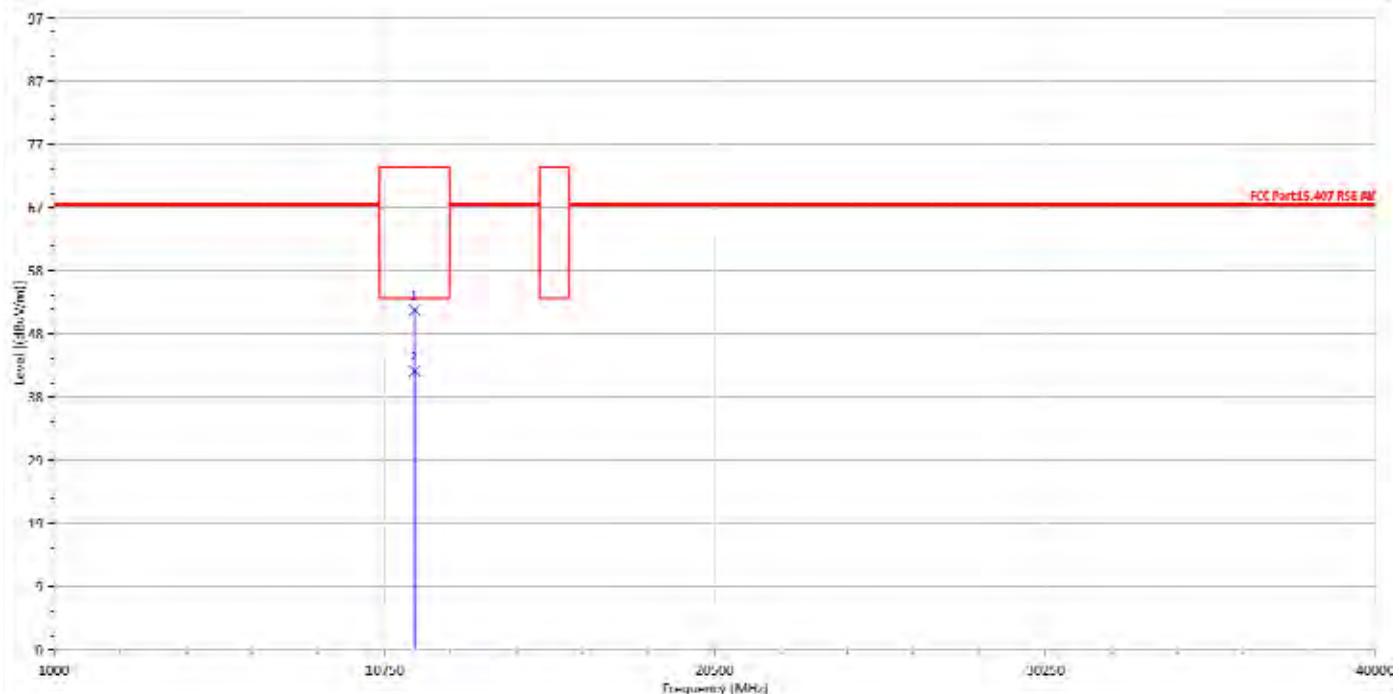
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Operation Mode : 802.11a Test Date : 2016/1/18  
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11650.00	H	Peak	30.91	21.27	52.18	74	-21.82
11650.00	H	Average	21.47	21.27	42.74	54	-11.26

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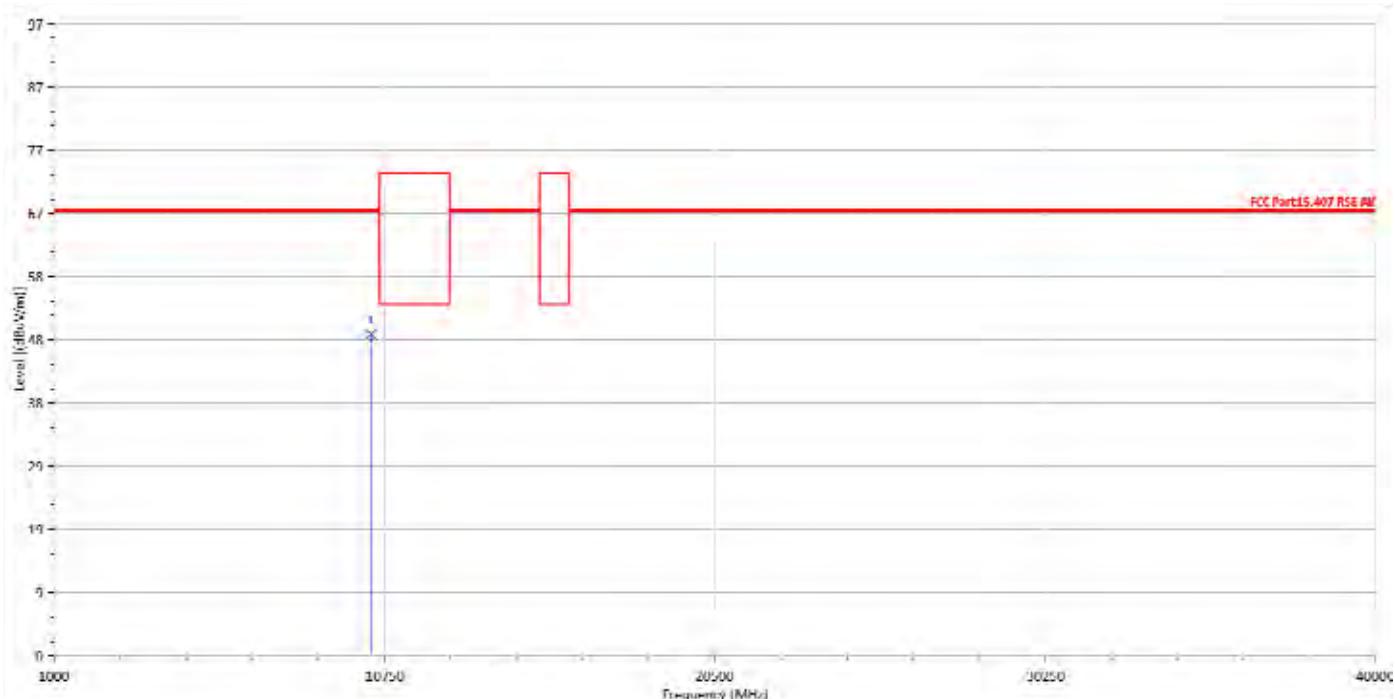
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz**

Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



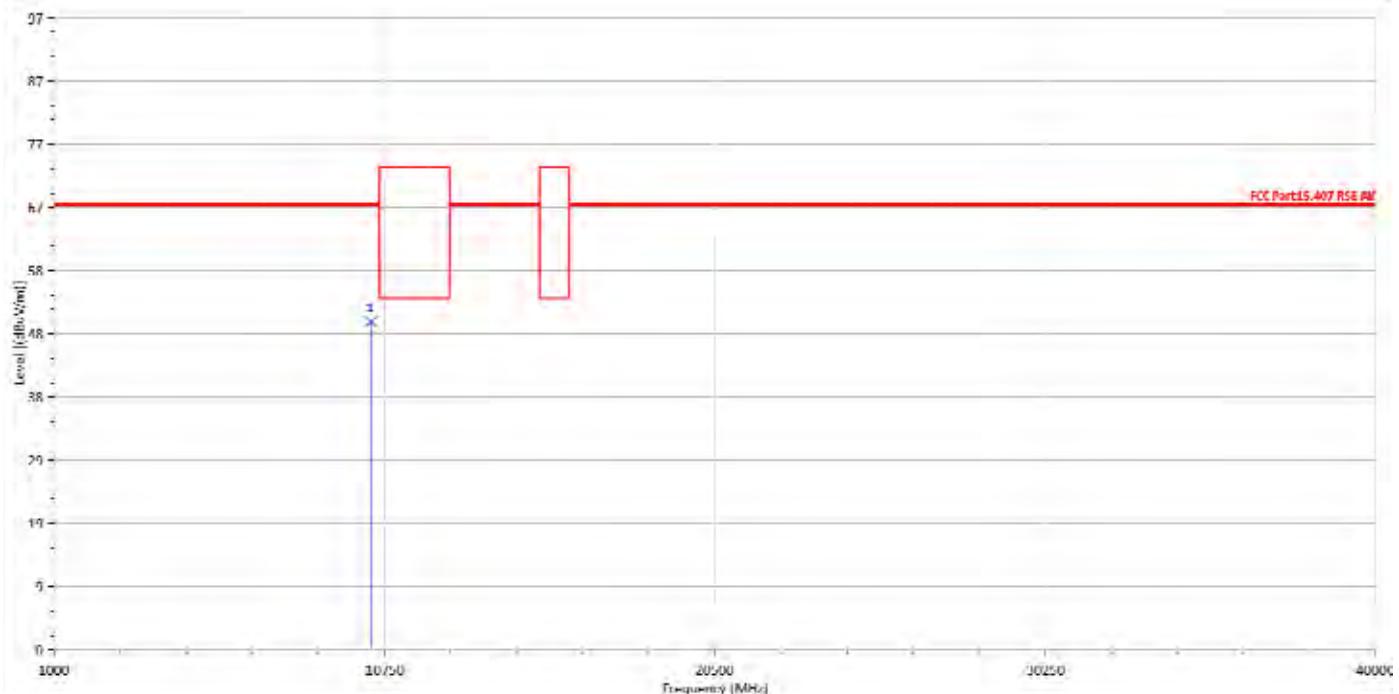
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10360.00	H	Peak	30.40	18.94	49.33	68.3	-18.97

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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10360.00	H	Peak	31.44	18.94	50.38	68.3	-17.92

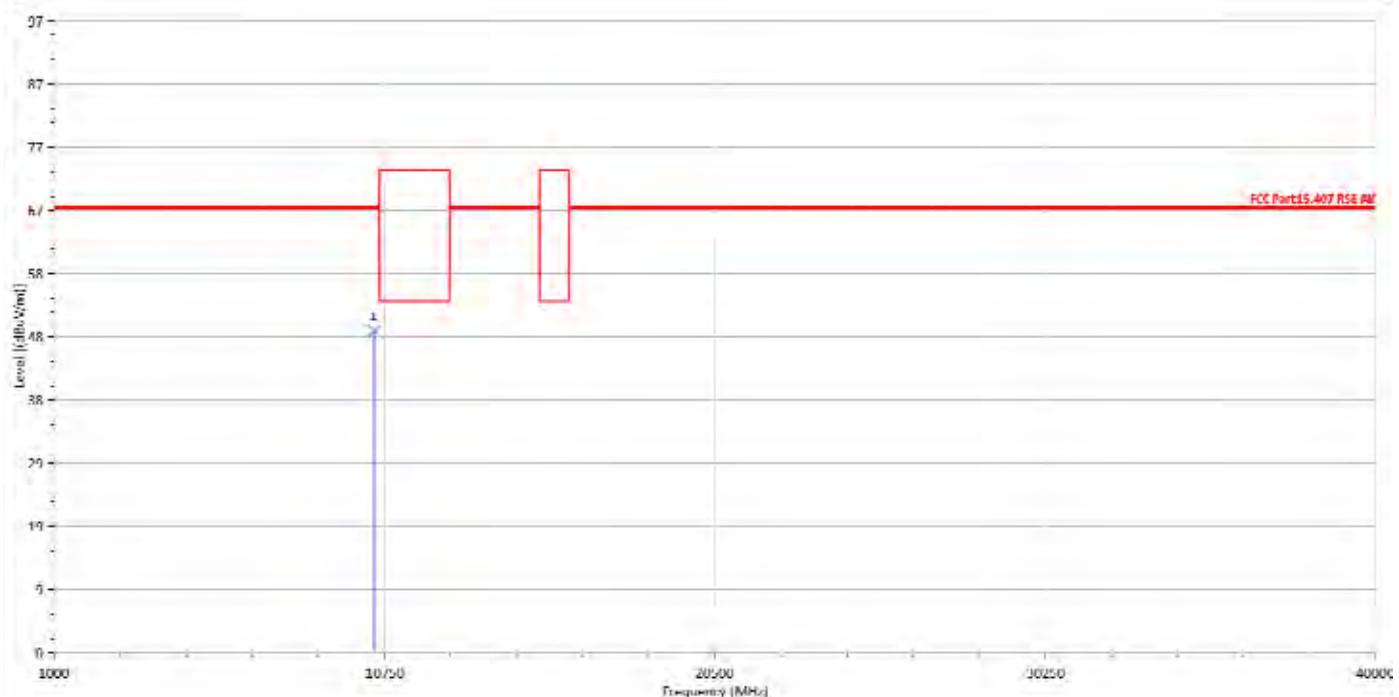
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10440.00	H	Peak	30.40	19.03	49.43	68.3	-18.87

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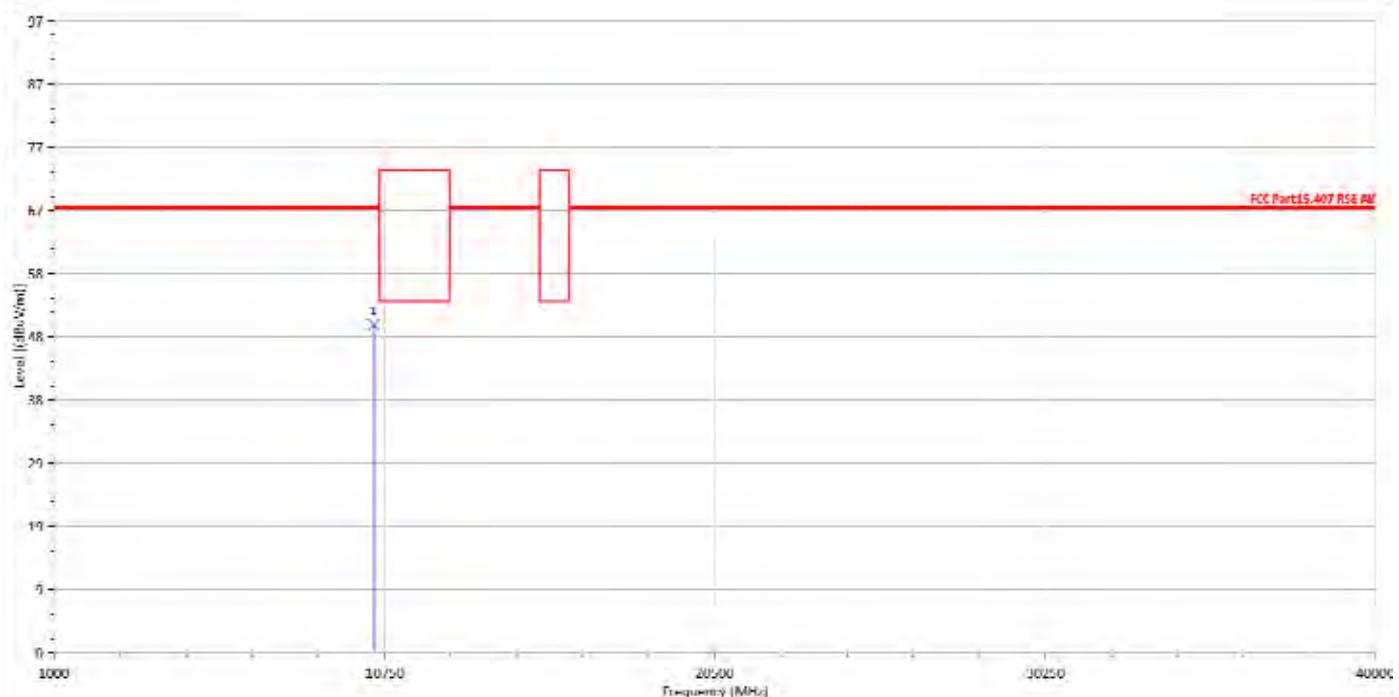
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10440.00	H	Peak	31.31	19.03	50.34	68.3	-17.96

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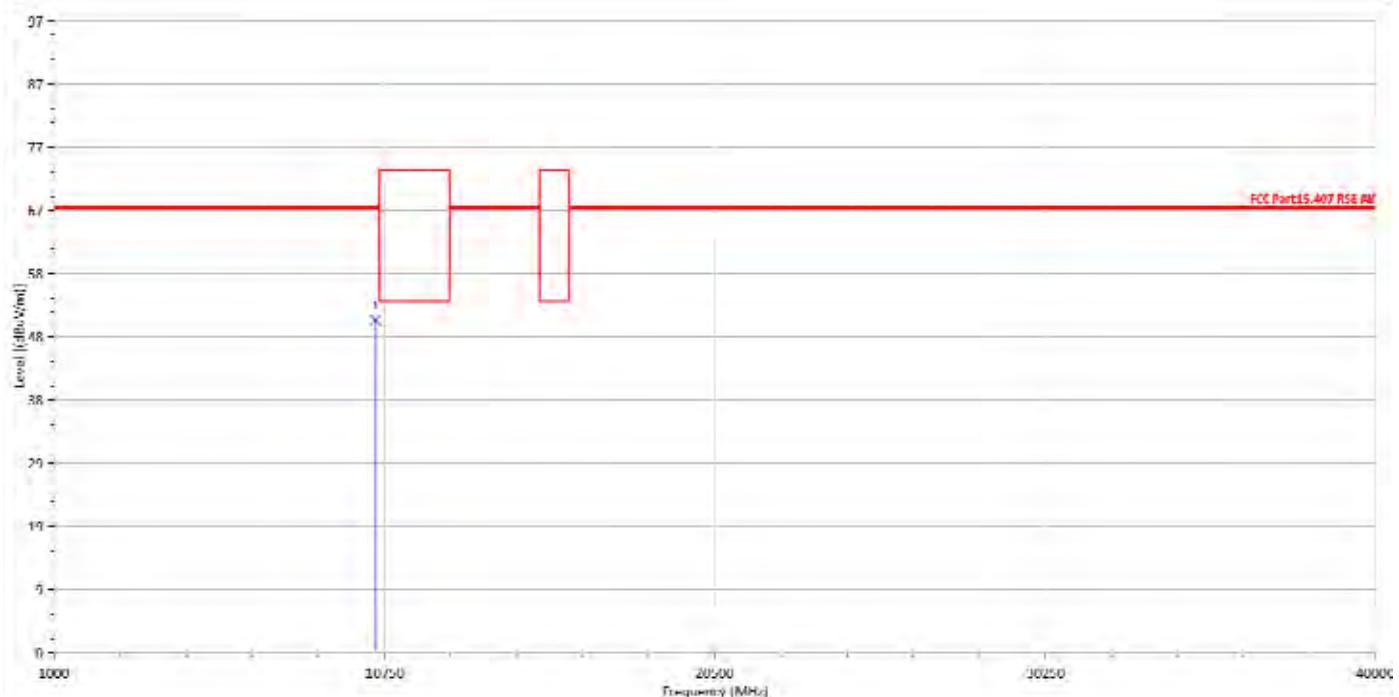
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10480.00	H	Peak	31.94	19.13	51.07	68.3	-17.23

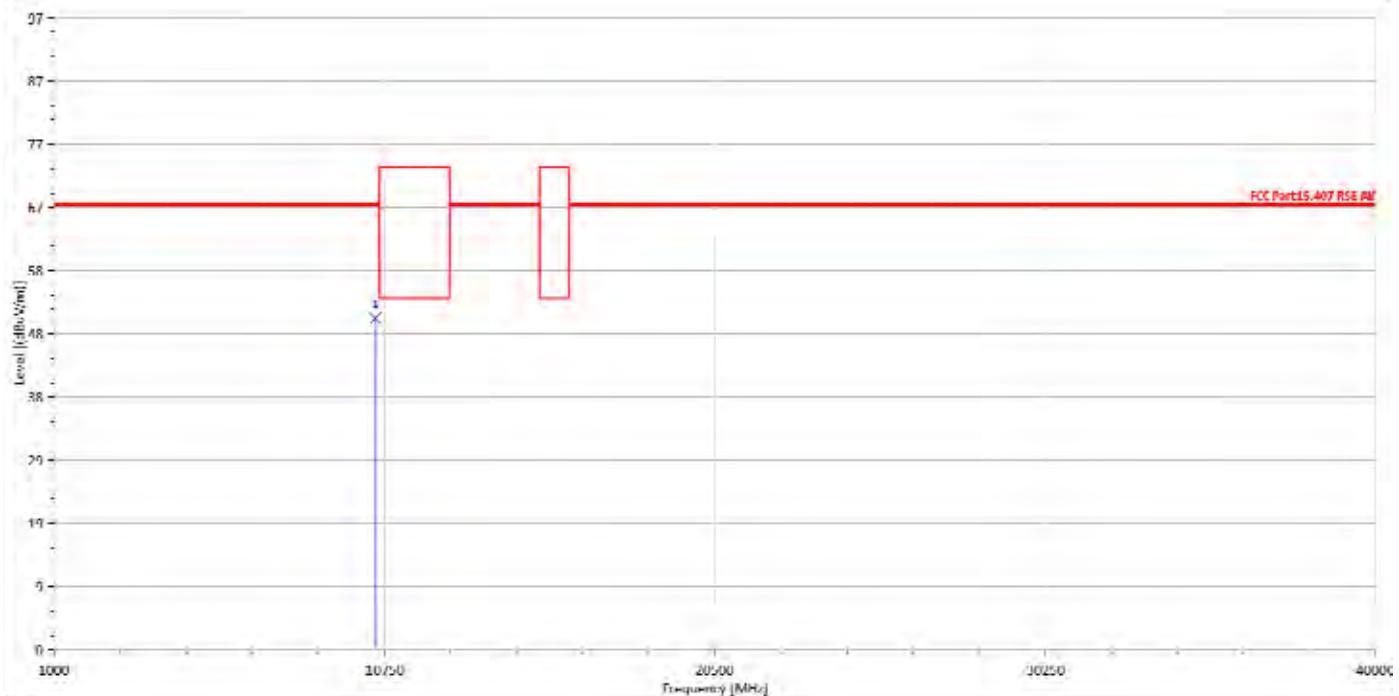
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10480.00	H	Peak	31.82	19.13	50.94	68.3	-17.36

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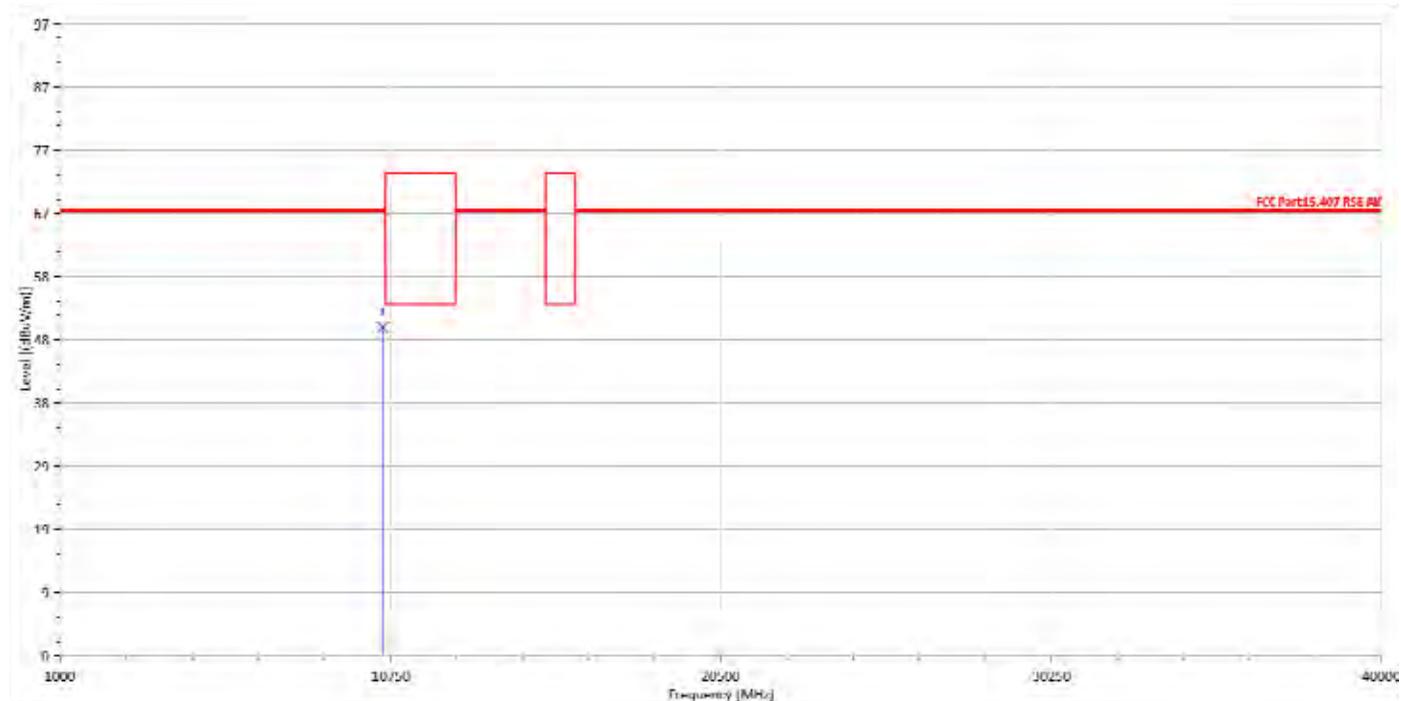
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz**

Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



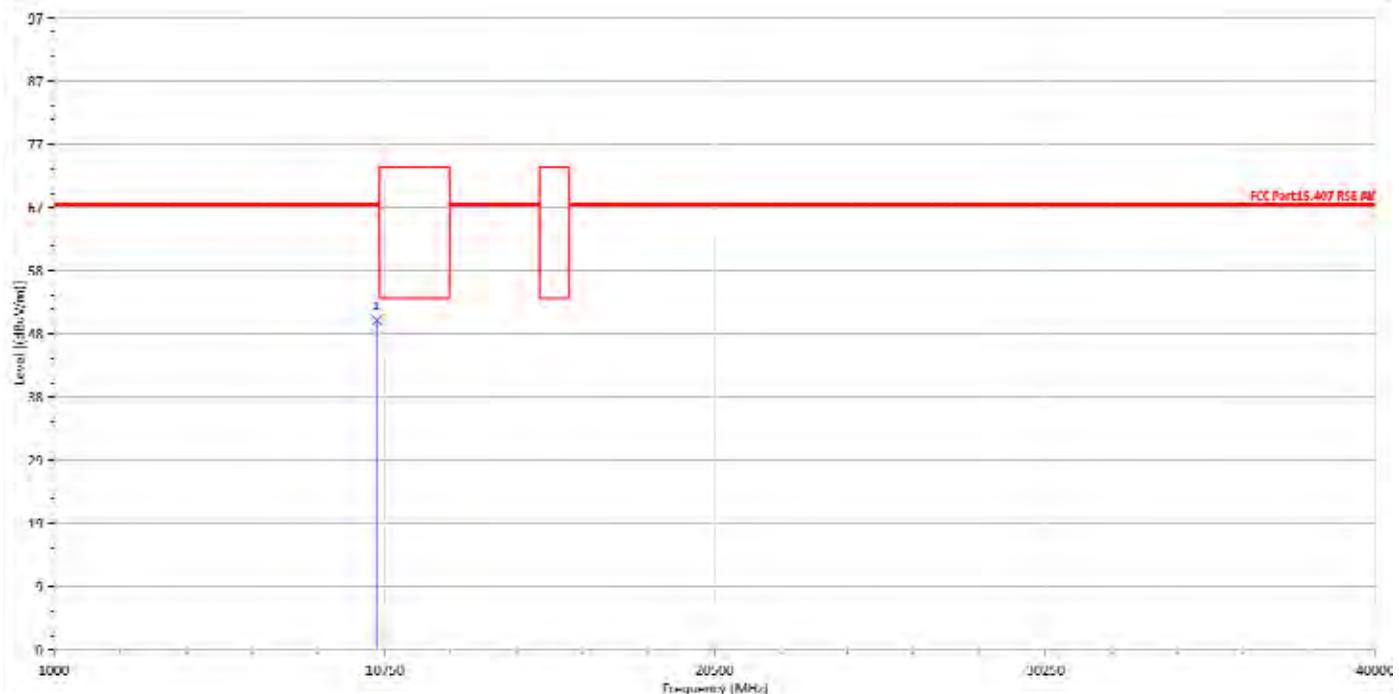
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10520.00	H	Peak	31.18	19.25	50.43	68.3	-17.87

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Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5260 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10520.00	H	Peak	31.37	19.25	50.62	68.3	-17.68

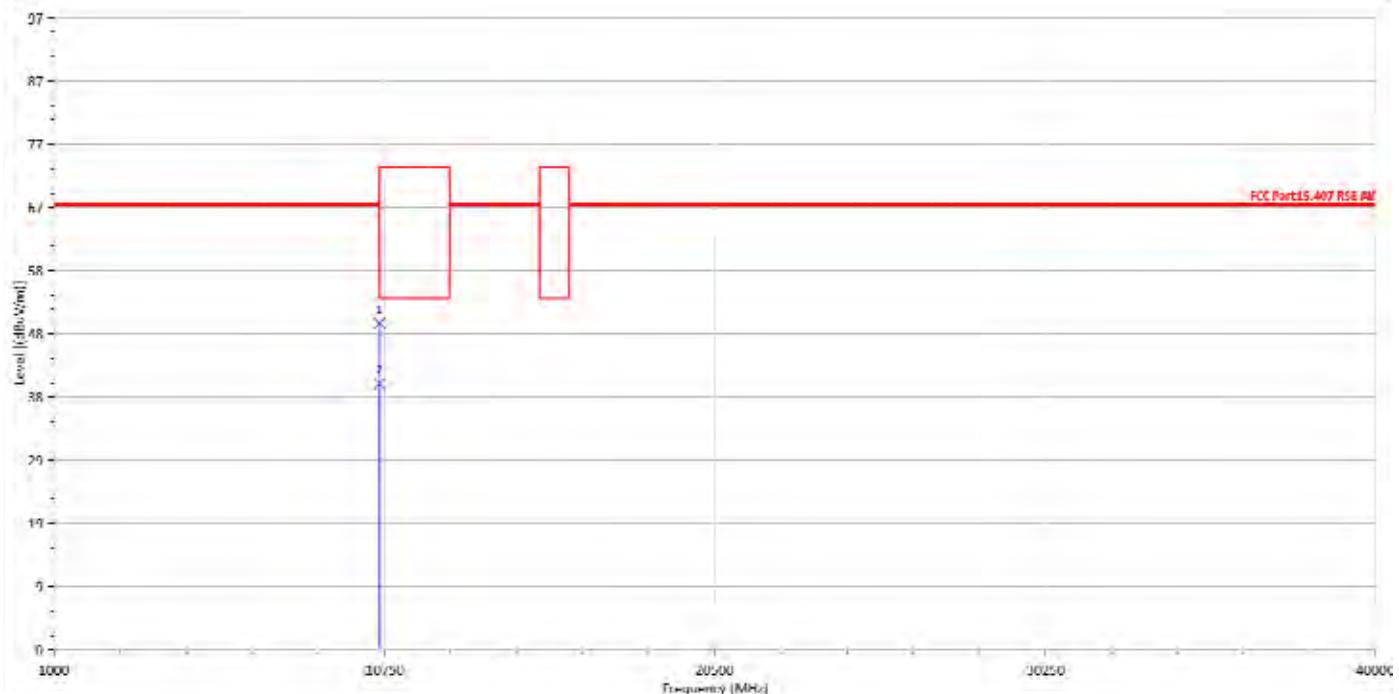
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	H	Peak	30.73	19.38	50.11	74	-23.89
10600.00	H	Average	21.38	19.38	40.76	54	-13.24

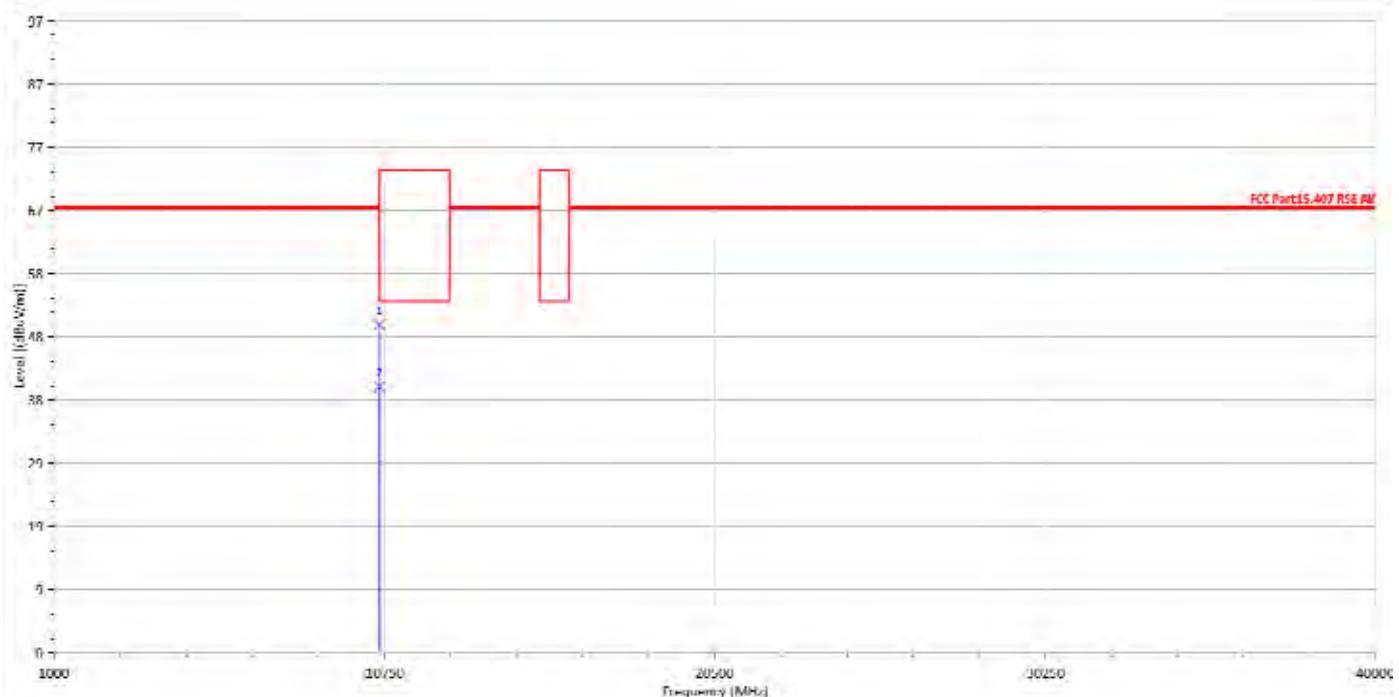
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5300 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10600.00	H	Peak	30.98	19.38	50.35	74	-23.65
10600.00	H	Average	21.39	19.38	40.77	54	-13.23

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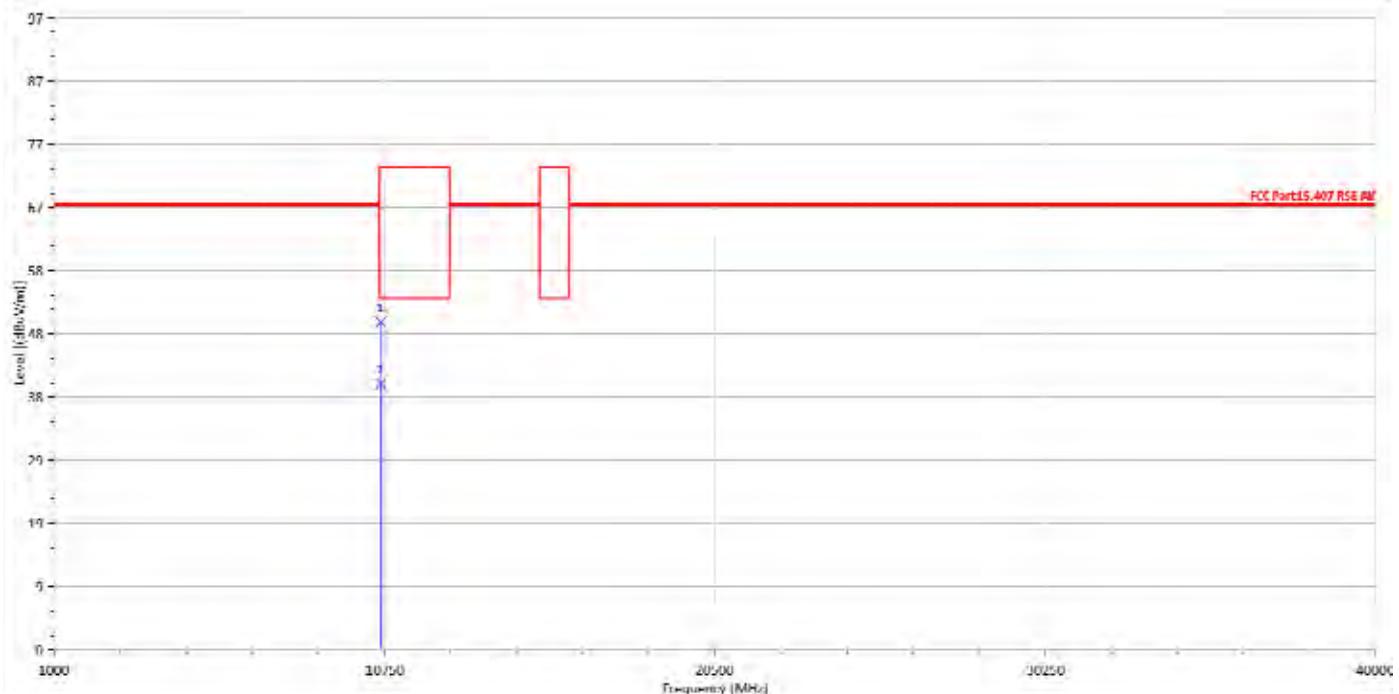
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	H	Peak	31.05	19.28	50.33	74	-23.67
10640.00	H	Average	21.40	19.28	40.68	54	-13.32

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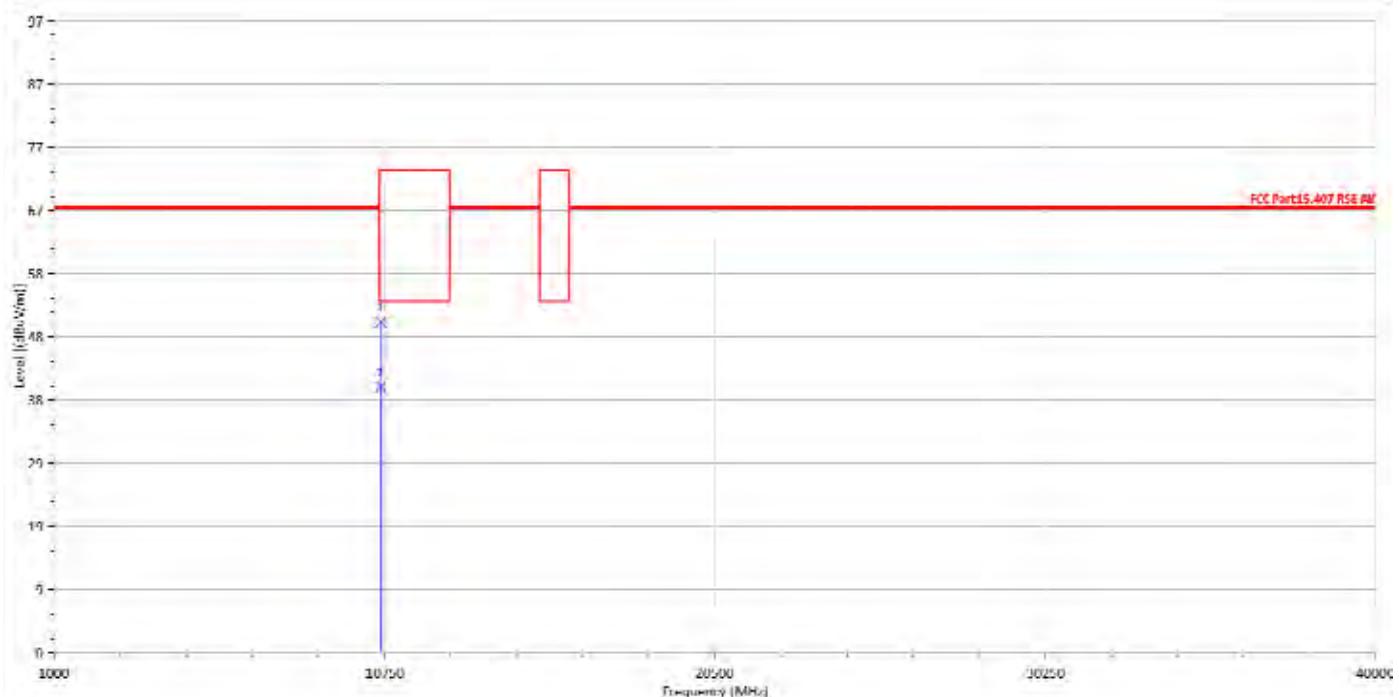
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10640.00	H	Peak	31.50	19.28	50.78	74	-23.22
10640.00	H	Average	21.40	19.28	40.68	54	-13.32

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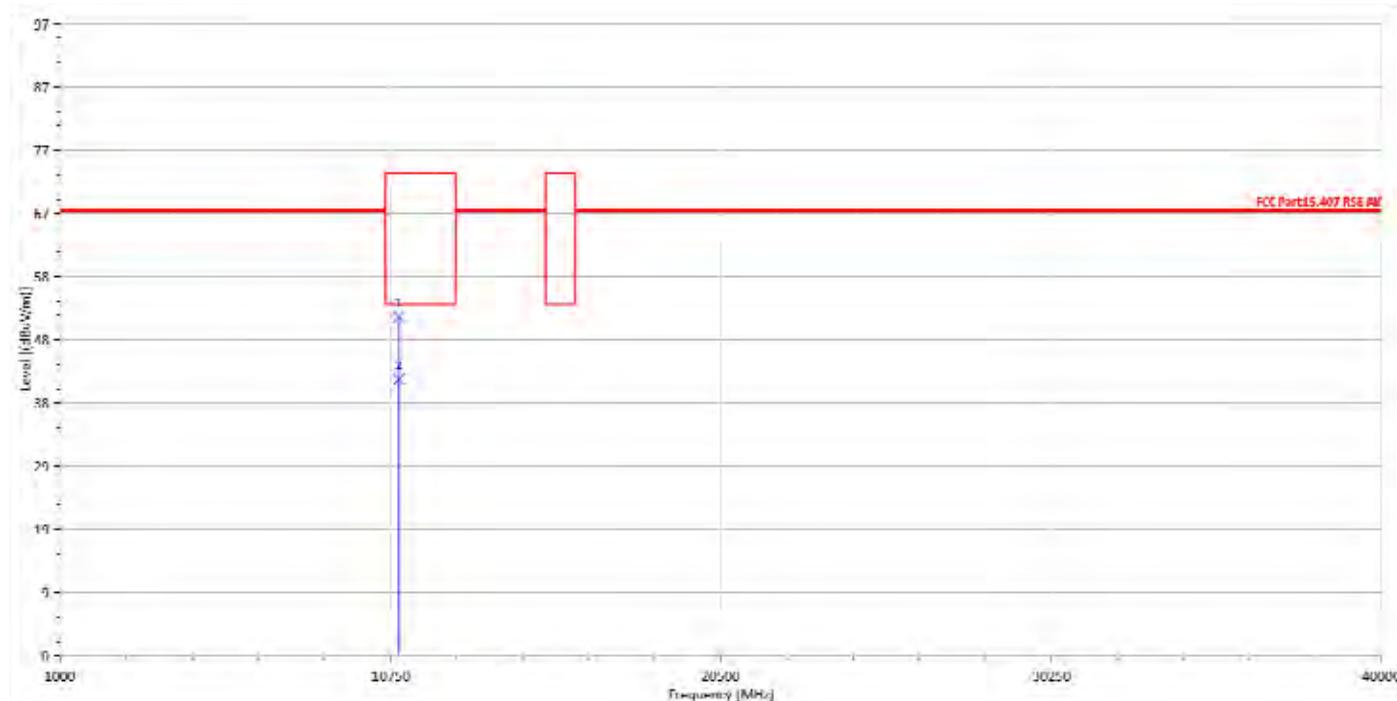
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



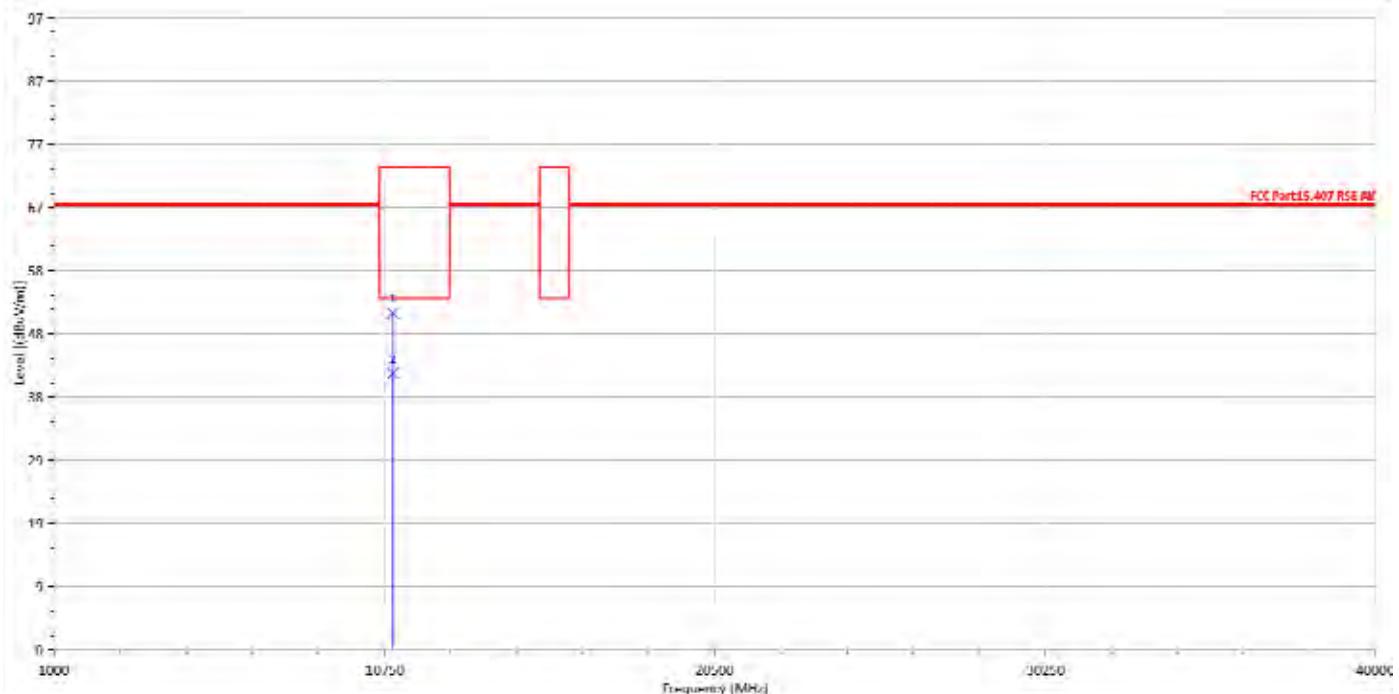
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11000.00	H	Peak	31.25	20.81	52.06	74	-21.94
11000.00	H	Average	21.56	20.81	42.37	54	-11.63

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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11000.00	H	Peak	30.91	20.81	51.72	74	-22.28
11000.00	H	Average	21.56	20.81	42.37	54	-11.63

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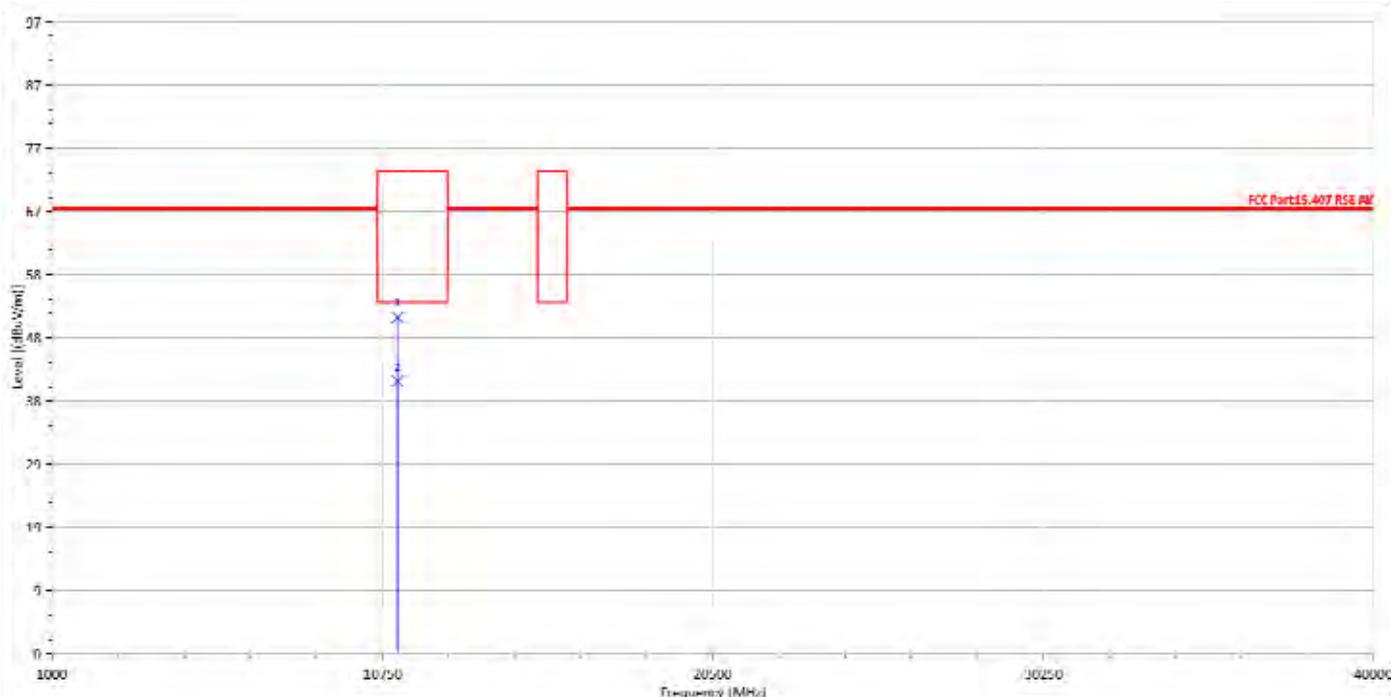
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Operation Mode : 802.11n20 Test Date : 2016/1/19  
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Operation Mode : 802.11ac20 Test Date : 2016/3/22  
Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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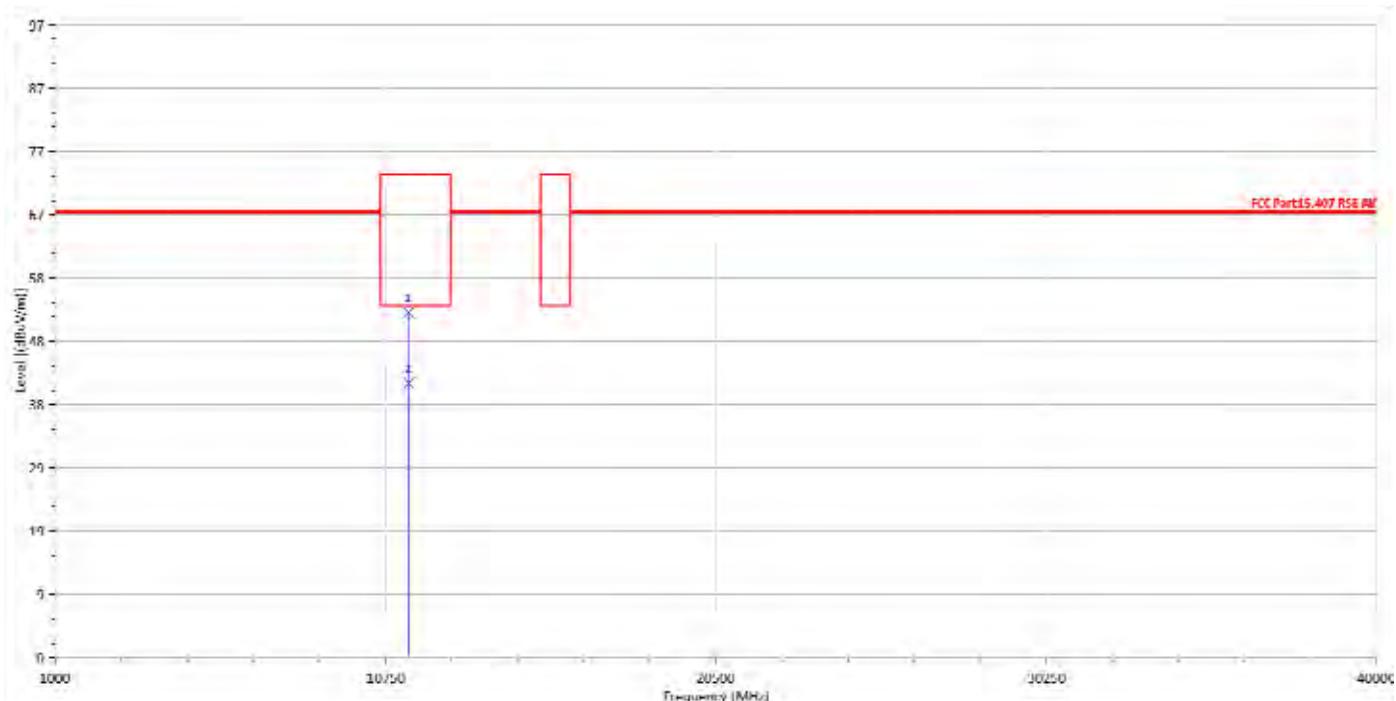
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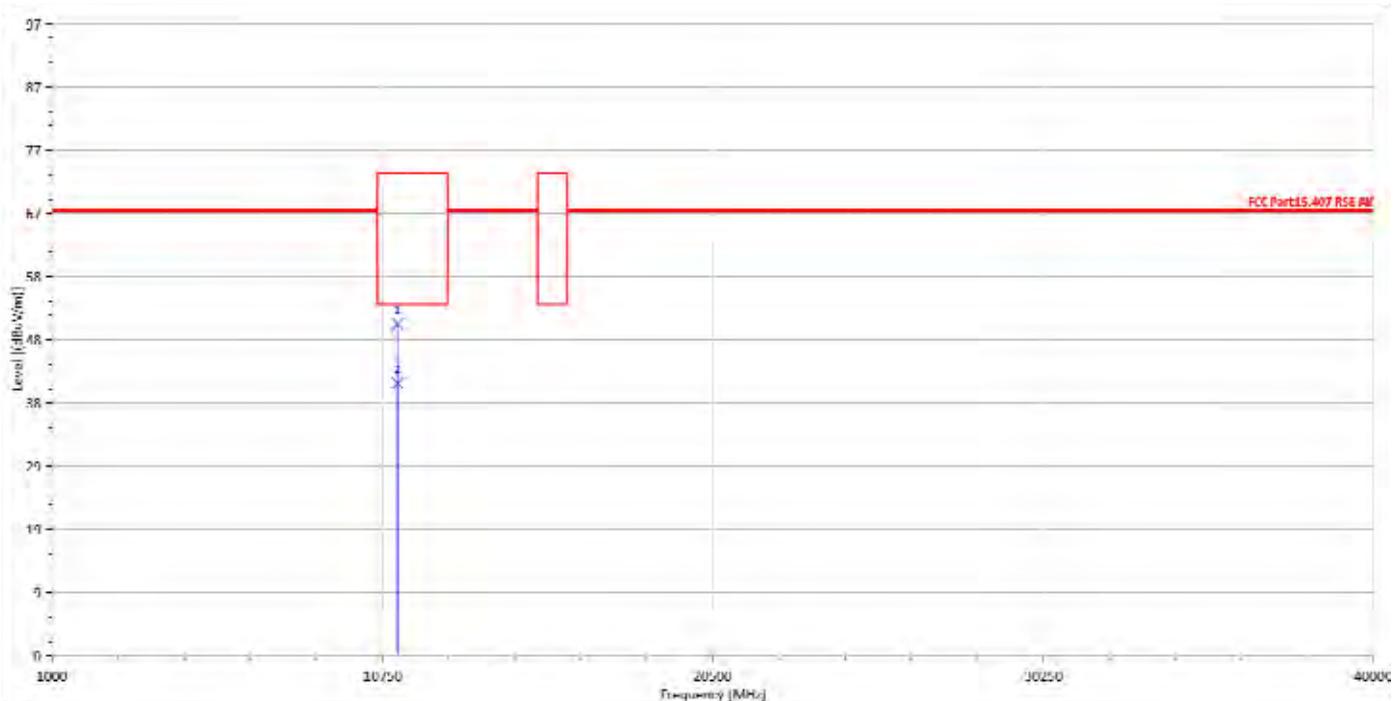
Freq.		Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S		PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11160.00	H		Peak	31.26	20.38	51.64	74	-22.36
11160.00	H		Average	21.39	20.38	41.77	54	-12.23
Freq.		Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S		PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11440.00	H		Peak	32.05	20.87	52.91	74	-21.09
11440.00	H		Average	21.14	20.87	42.01	54	-11.99

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Operation Mode :	802.11n20	Test Date :	2016/1/19
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal
Operation Mode :	802.11ac20	Test Date :	2016/3/22
Fundamental Frequency :	5720 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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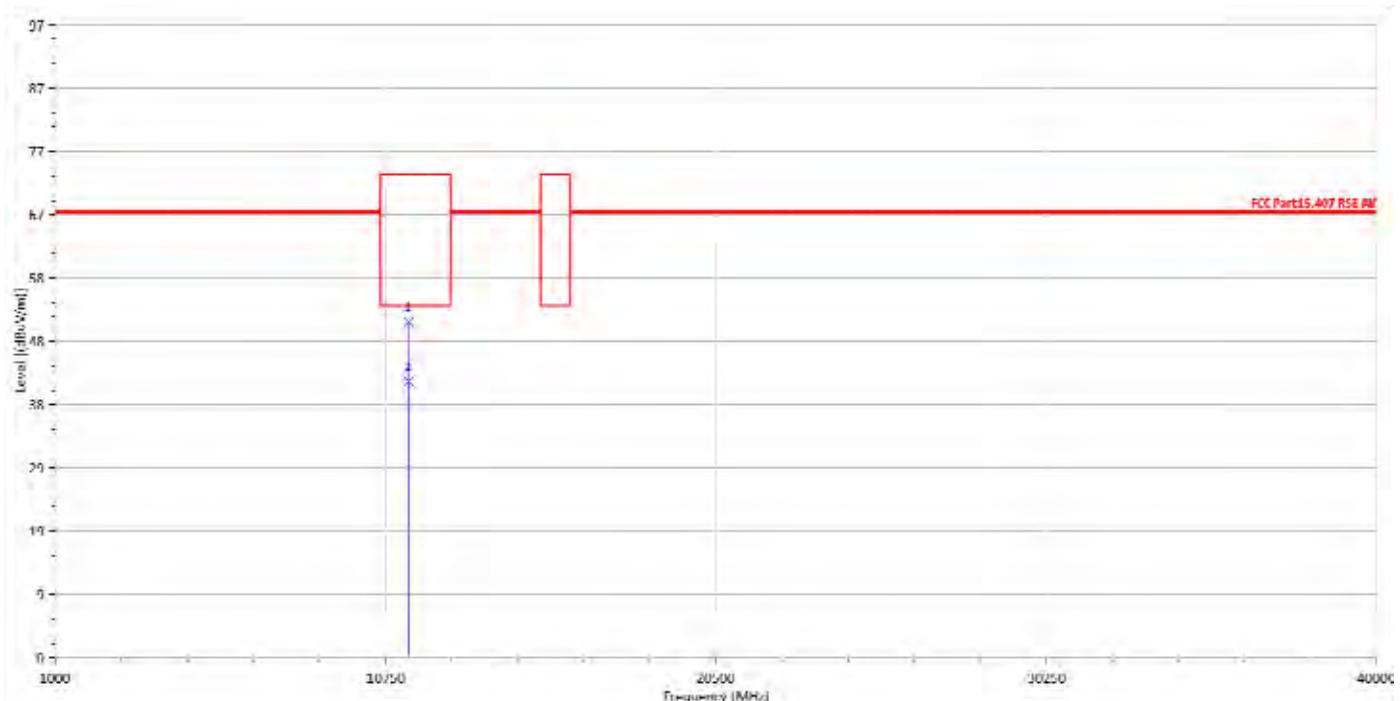
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Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11160.00	H	Peak	30.54	20.38	50.92	74	-23.08
11160.00	H	Average	21.37	20.38	41.75	54	-12.25
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11440.00	H	Peak	30.61	20.87	51.48	74	-22.52
11440.00	H	Average	21.41	20.87	42.28	54	-11.72

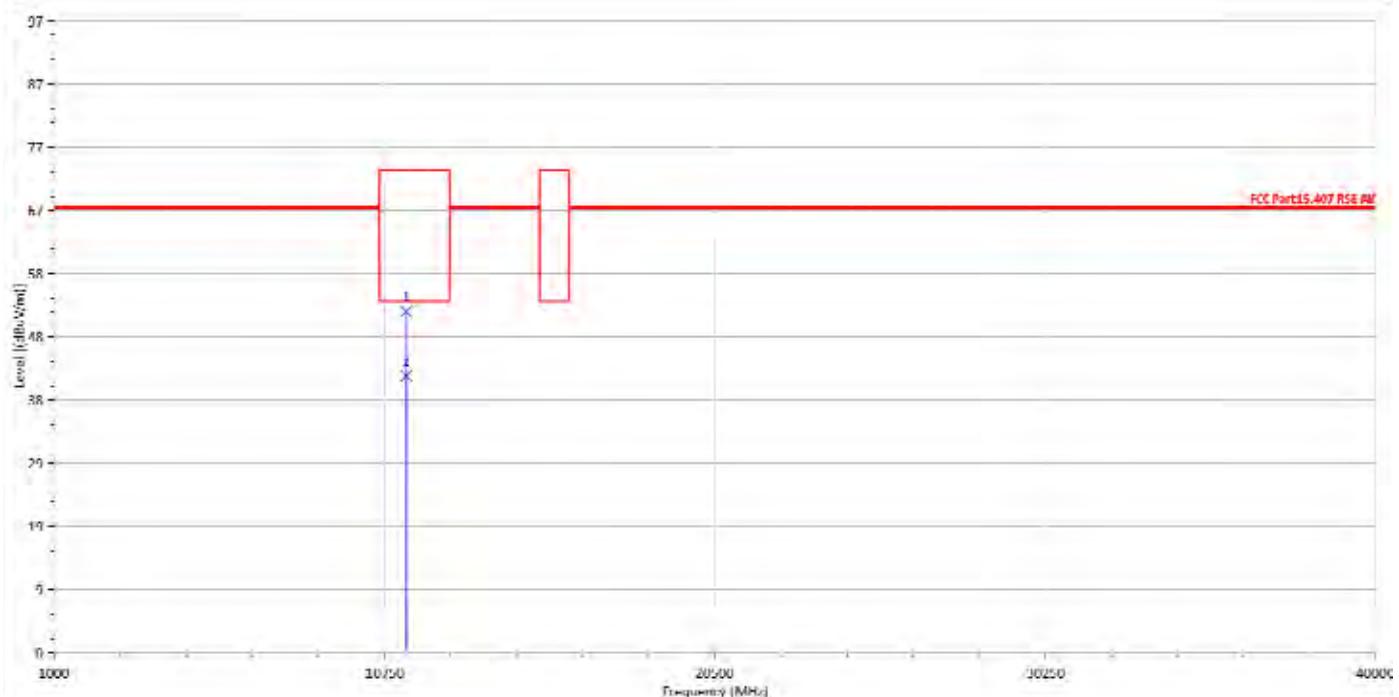
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11400.00	H	Peak	31.59	20.81	52.40	74	-21.60
11400.00	H	Average	21.59	20.81	42.40	54	-11.60

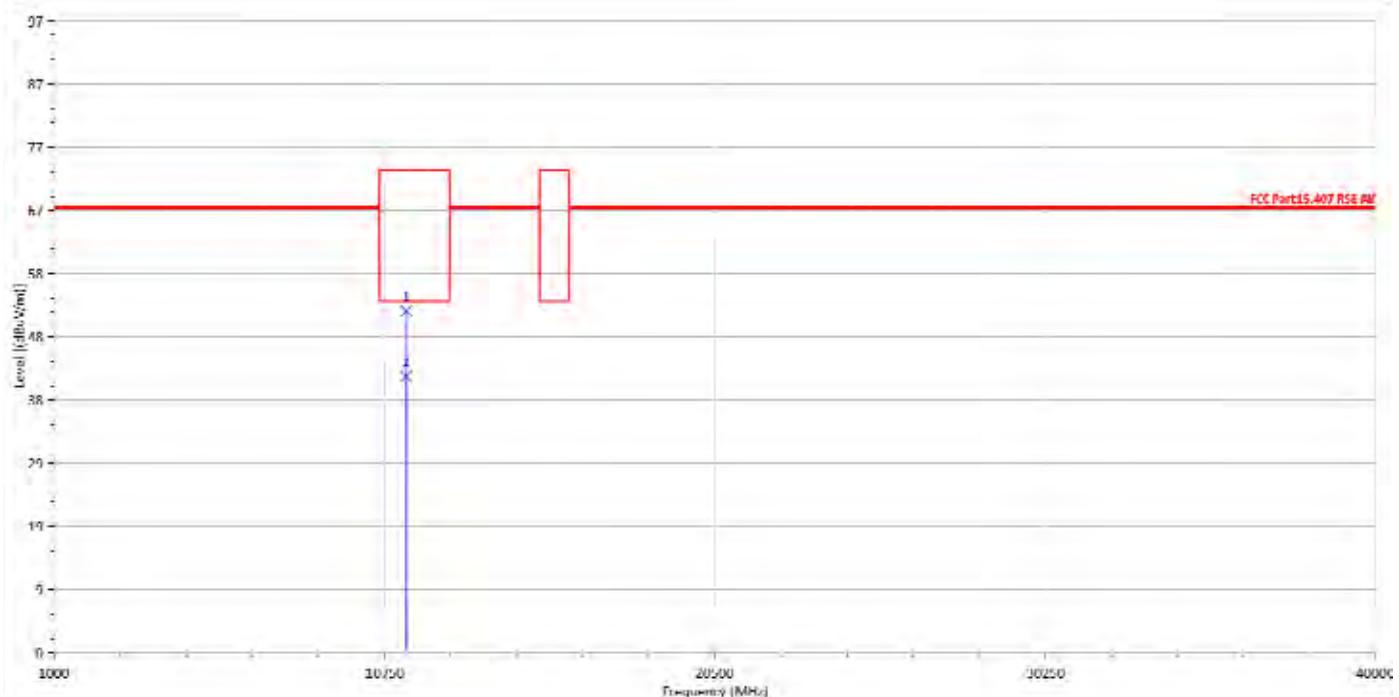
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11400.00	H	Peak	31.67	20.81	52.48	74	-21.52
11400.00	H	Average	21.56	20.81	42.37	54	-11.63

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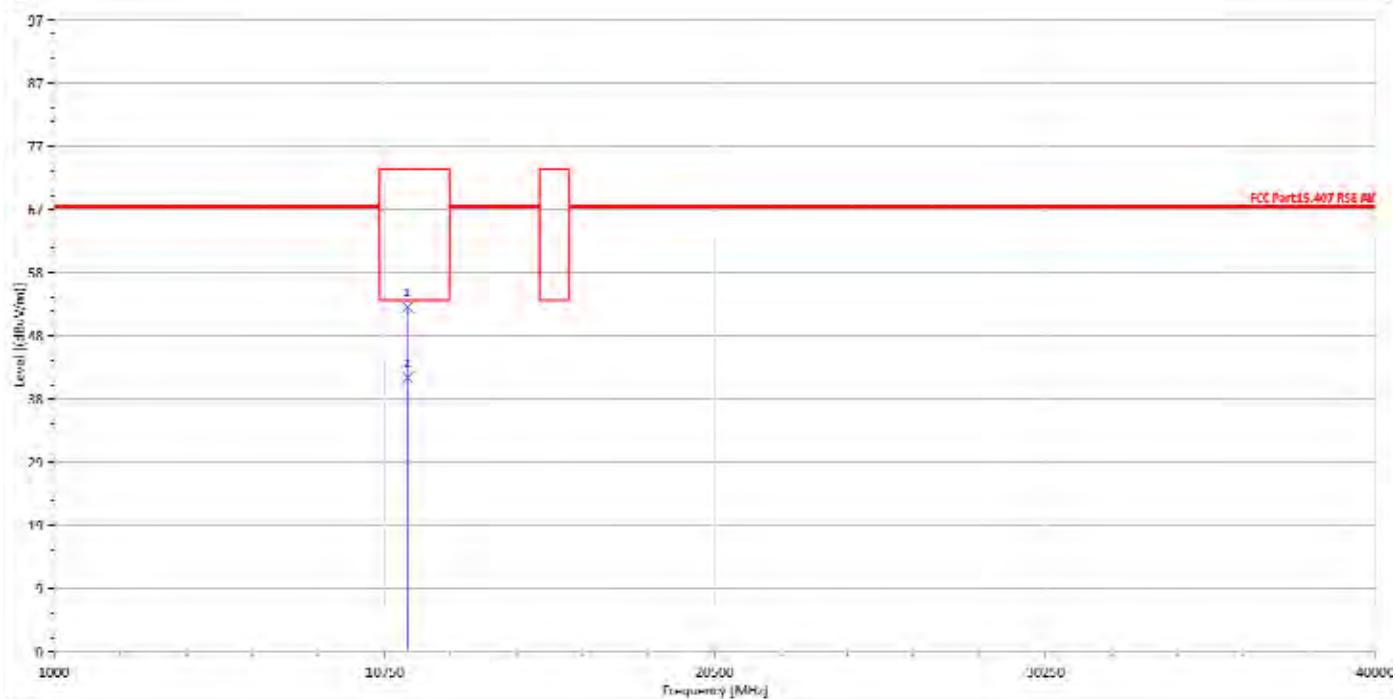
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## Radiated Spurious Emission Measurement Result 802.11ac VHT20, 5470~5725 MHz

Operation Mode : 802.11ac20 Test Date : 2016/3/22  
 Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



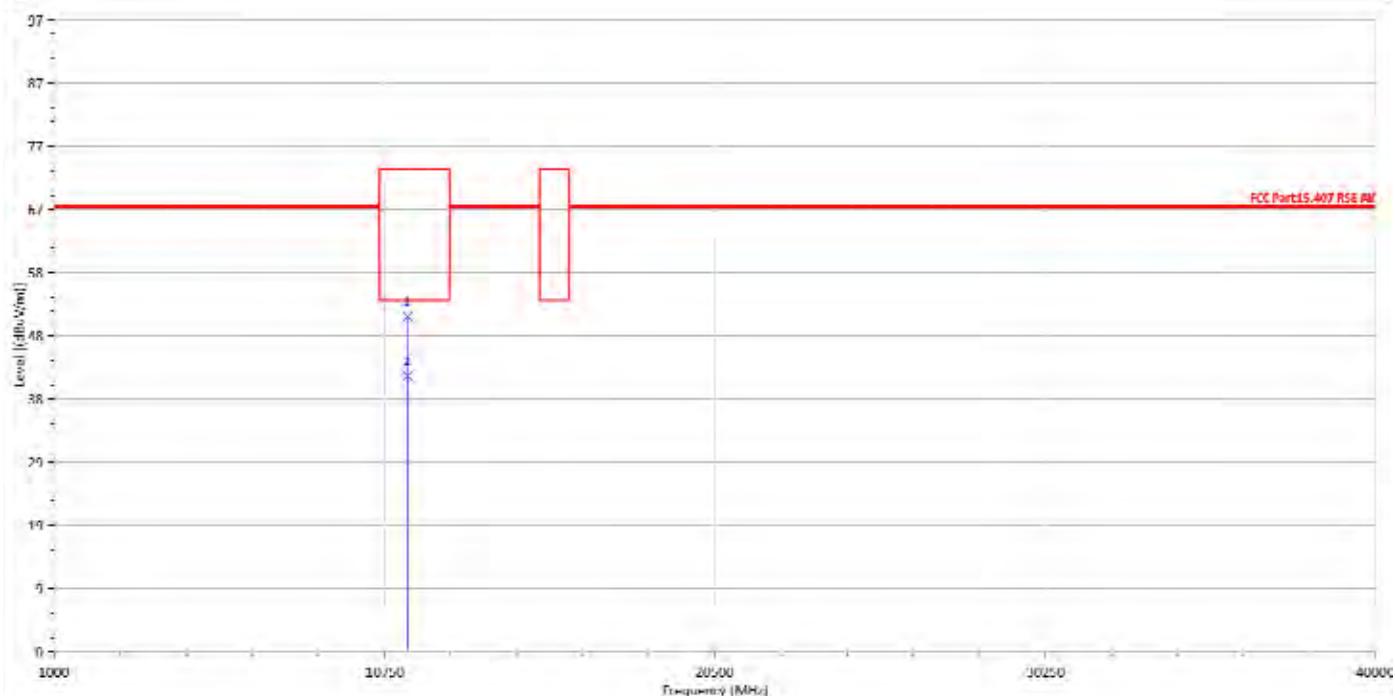
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11440.00	H	Peak	32.05	20.87	52.91	74	-21.09
11440.00	H	Average	21.14	20.87	42.01	54	-11.99

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Operation Mode : 802.11ac20 Test Date : 2016/3/22  
 Fundamental Frequency : 5720 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11440.00	H	Peak	30.61	20.87	51.48	74	-22.52
11440.00	H	Average	21.41	20.87	42.28	54	-11.72

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

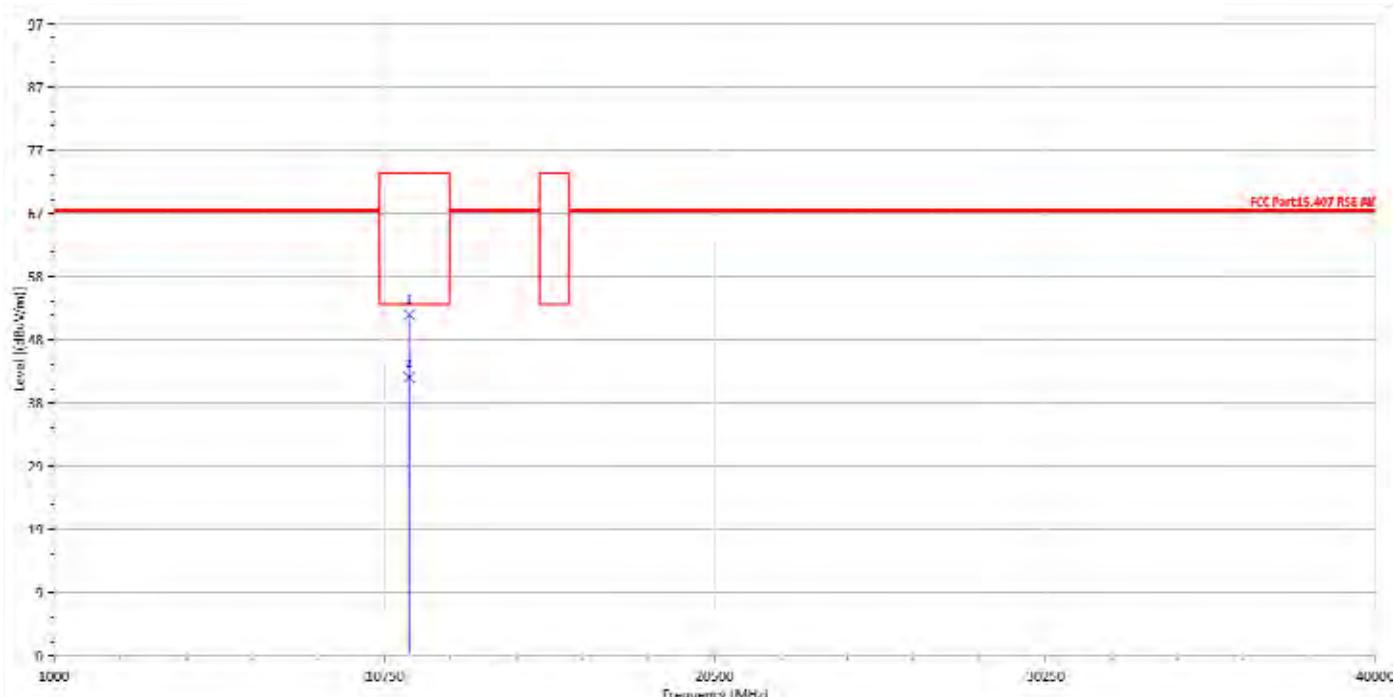
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**Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz**

Operation Mode : 802.11n20 Test Date : 2016/1/18  
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11490.00	H	Peak	31.30	21.08	52.38	74	-21.62
11490.00	H	Average	21.58	21.08	42.66	54	-11.34

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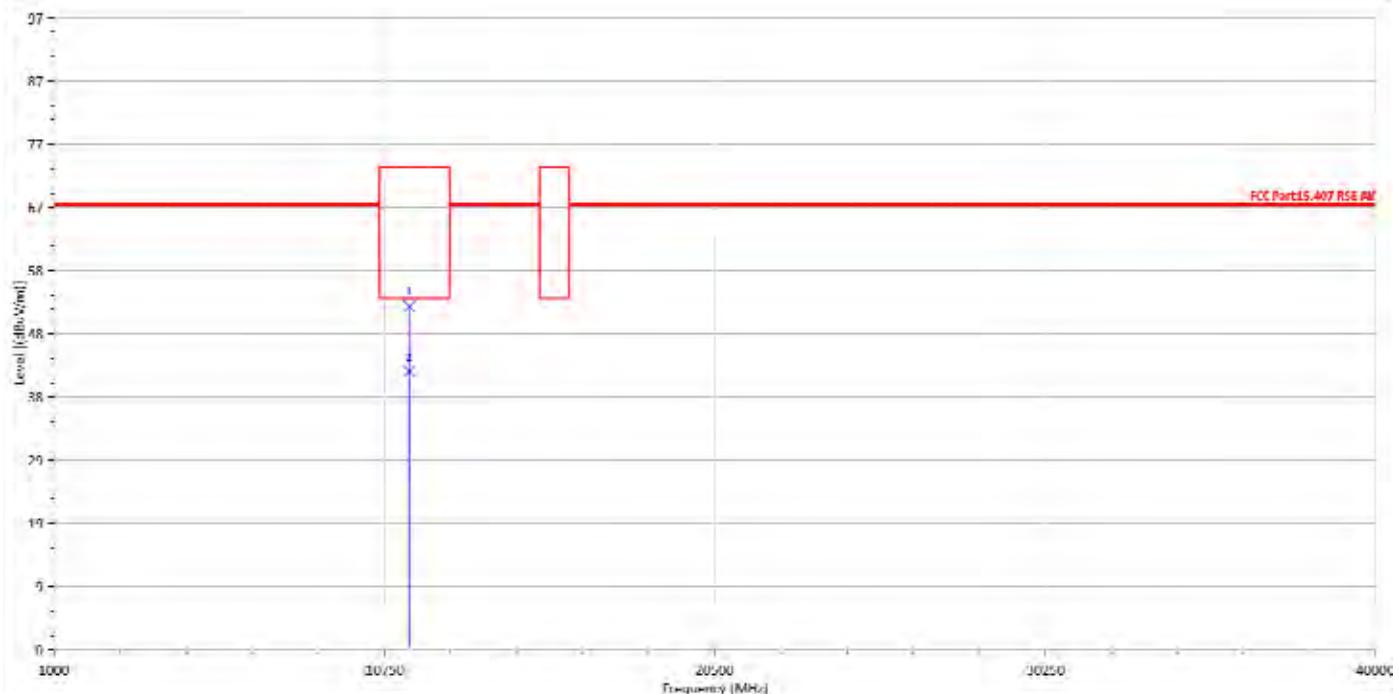
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11490.00	H	Peak	31.66	21.08	52.74	74	-21.26
11490.00	H	Average	21.59	21.08	42.67	54	-11.33

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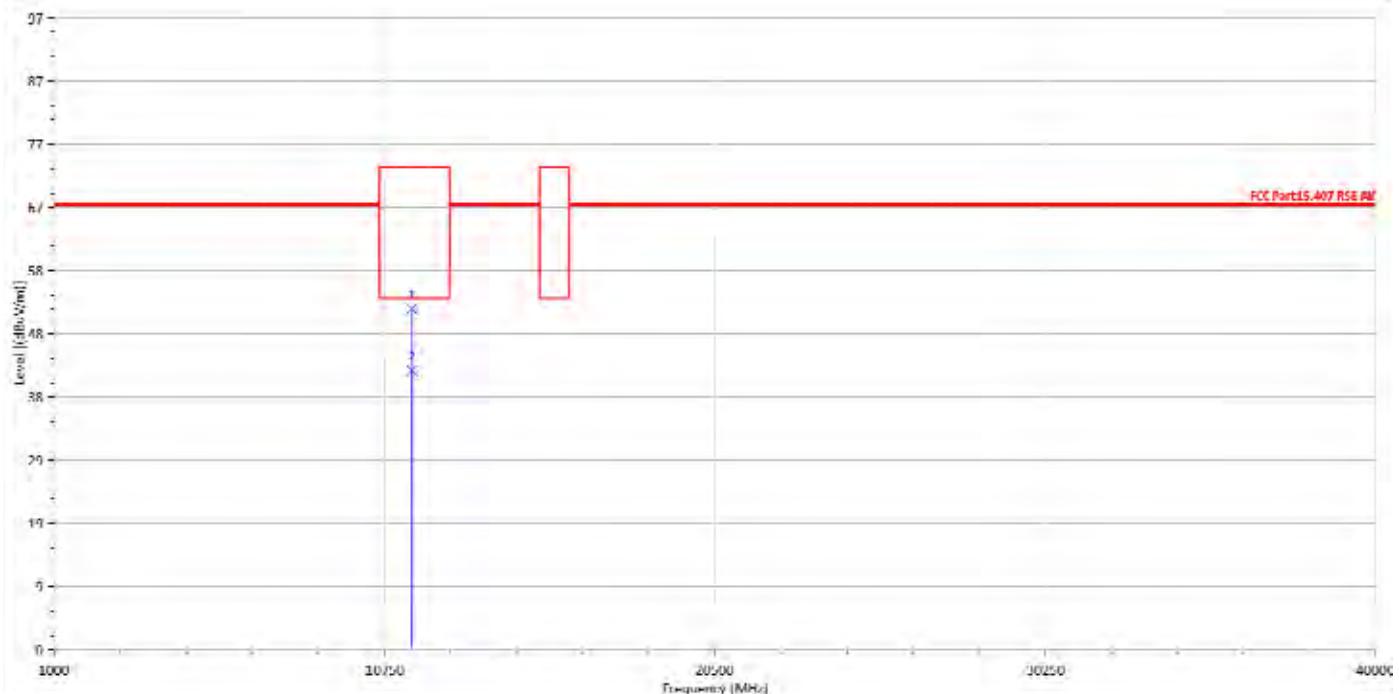
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11570.00	H	Peak	31.22	21.14	52.36	74	-21.64
11570.00	H	Average	21.66	21.14	42.80	54	-11.20

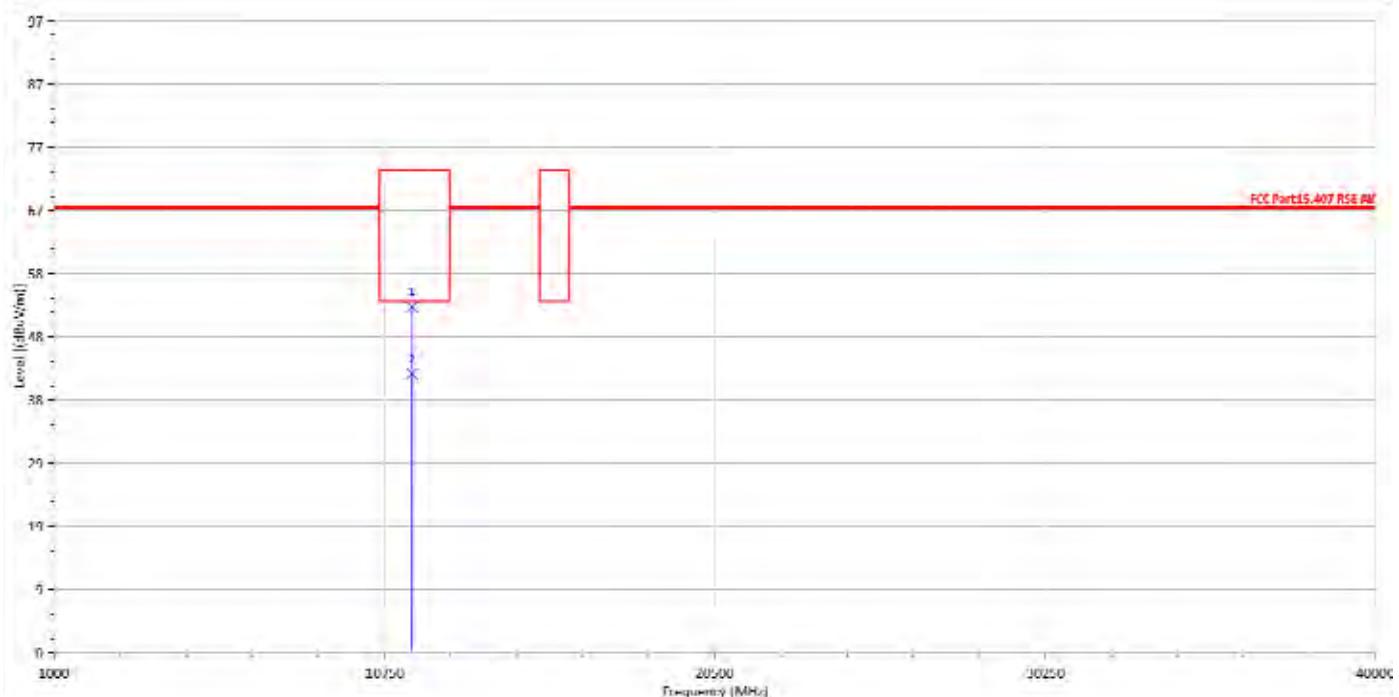
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 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11570.00	H	Peak	31.98	21.14	53.12	74	-20.88
11570.00	H	Average	21.61	21.14	42.75	54	-11.25

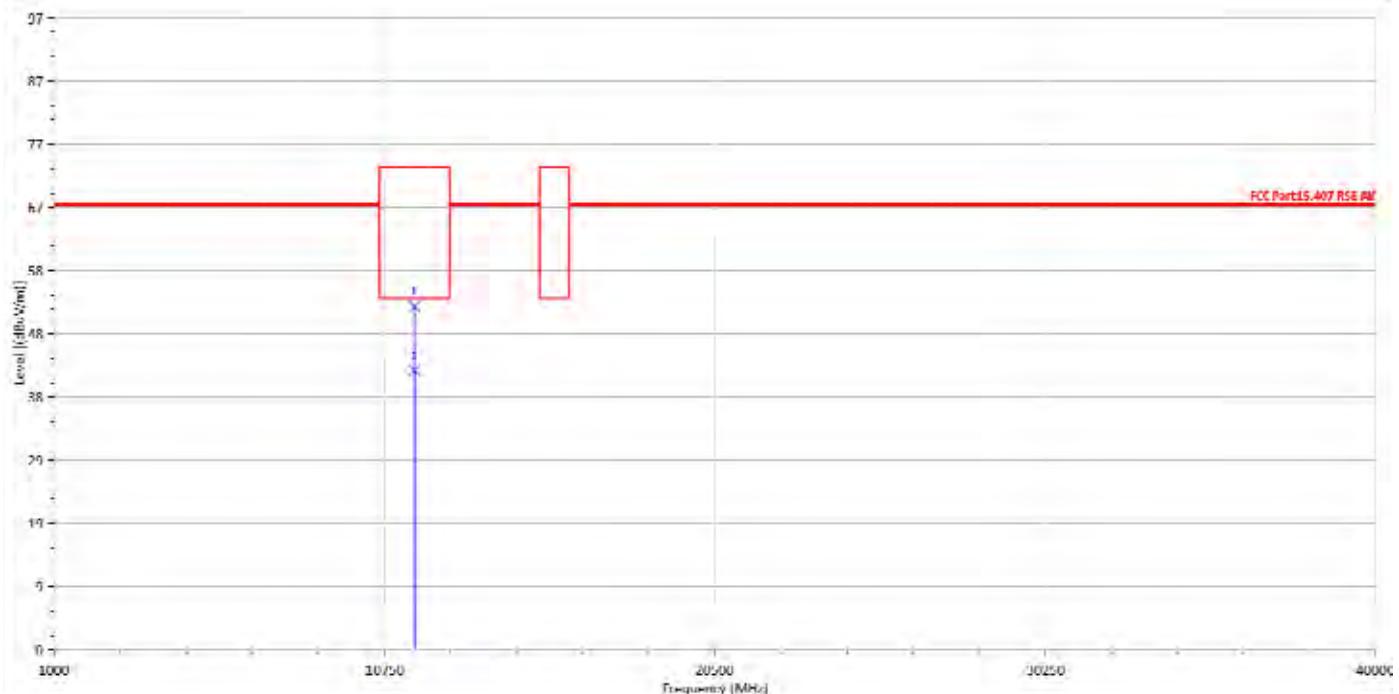
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.00	H	Peak	31.45	21.27	52.72	74	-21.28
11650.00	H	Average	21.57	21.27	42.84	54	-11.16

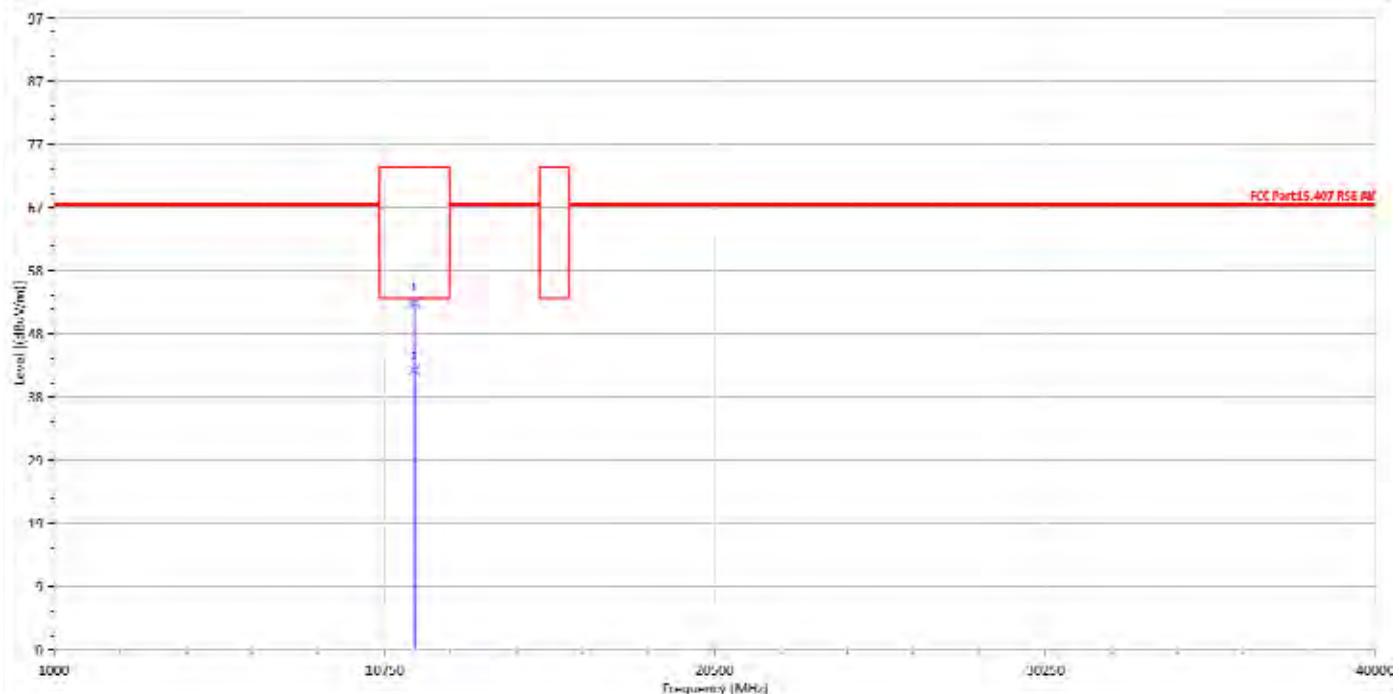
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Operation Mode : 802.11n20 Test Date : 2016/1/18  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11650.00	H	Peak	32.00	21.27	53.27	74	-20.73
11650.00	H	Average	21.58	21.27	42.85	54	-11.15

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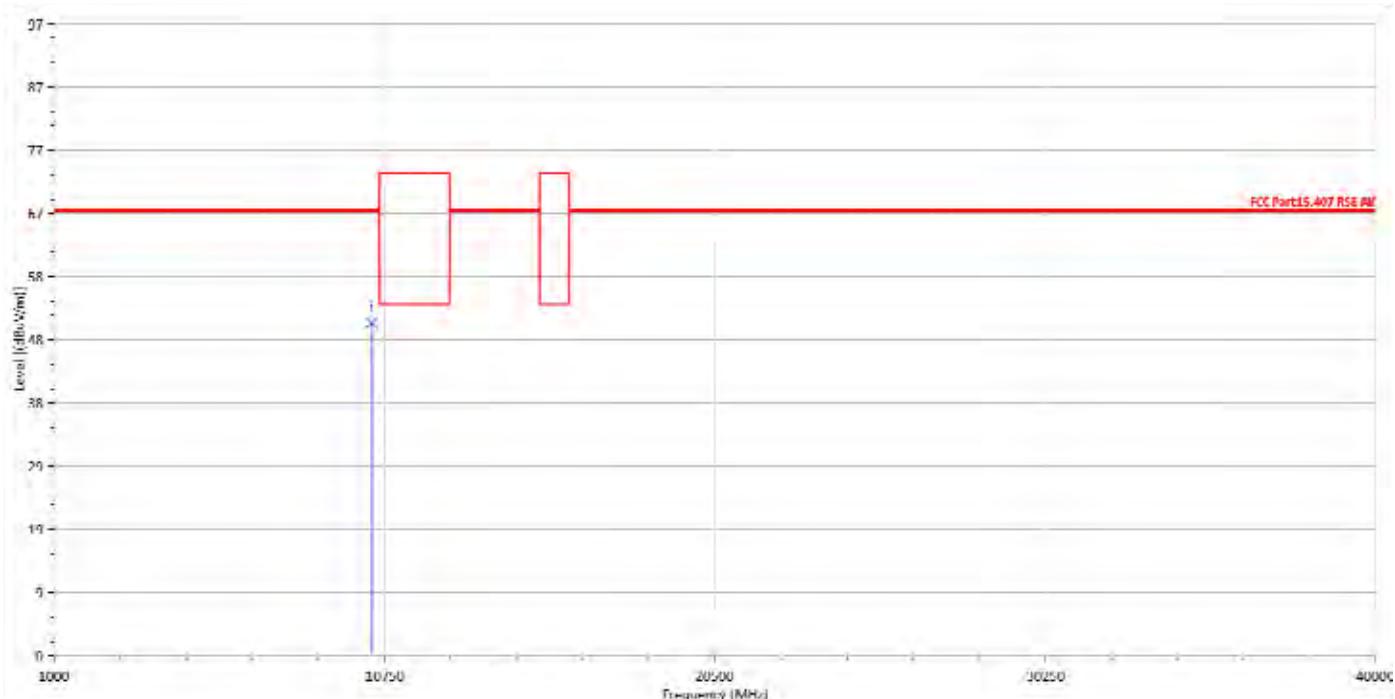
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



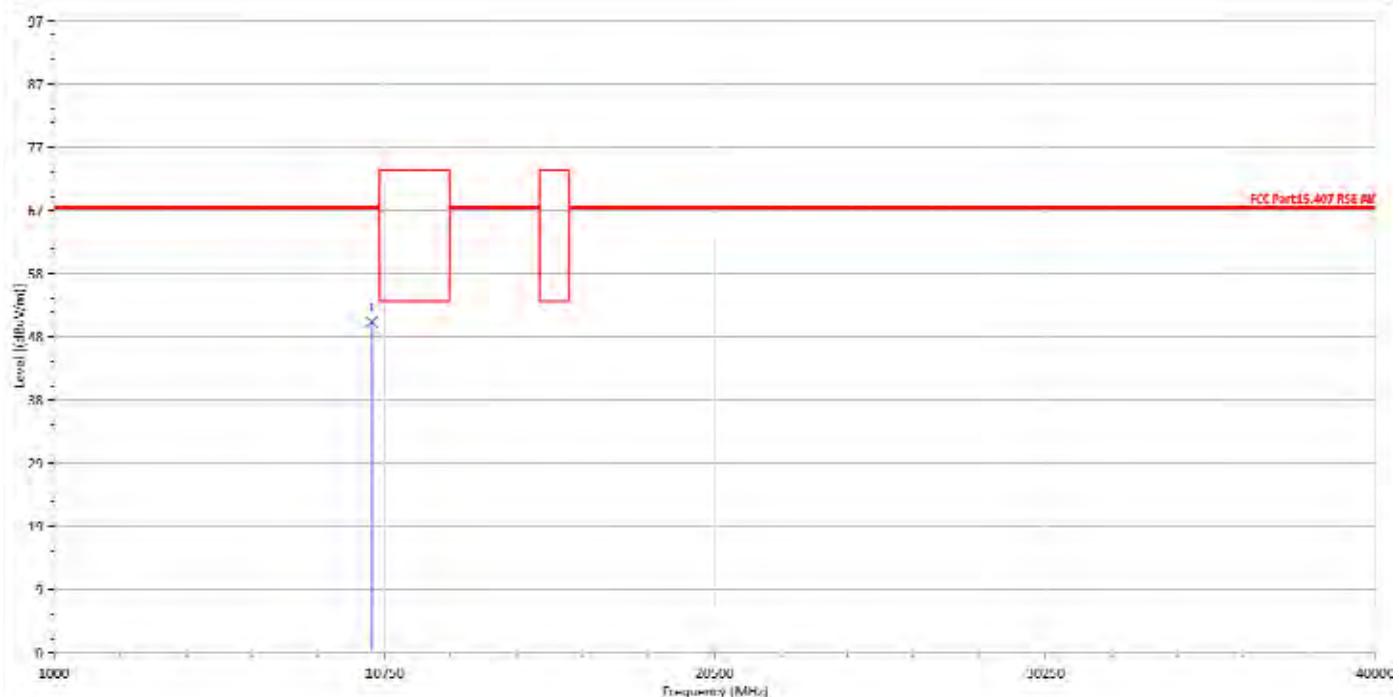
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10380.00	H	Peak	32.12	19.01	51.13	68.3	-17.17

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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10380.00	H	Peak	31.80	19.01	50.81	68.3	-17.49

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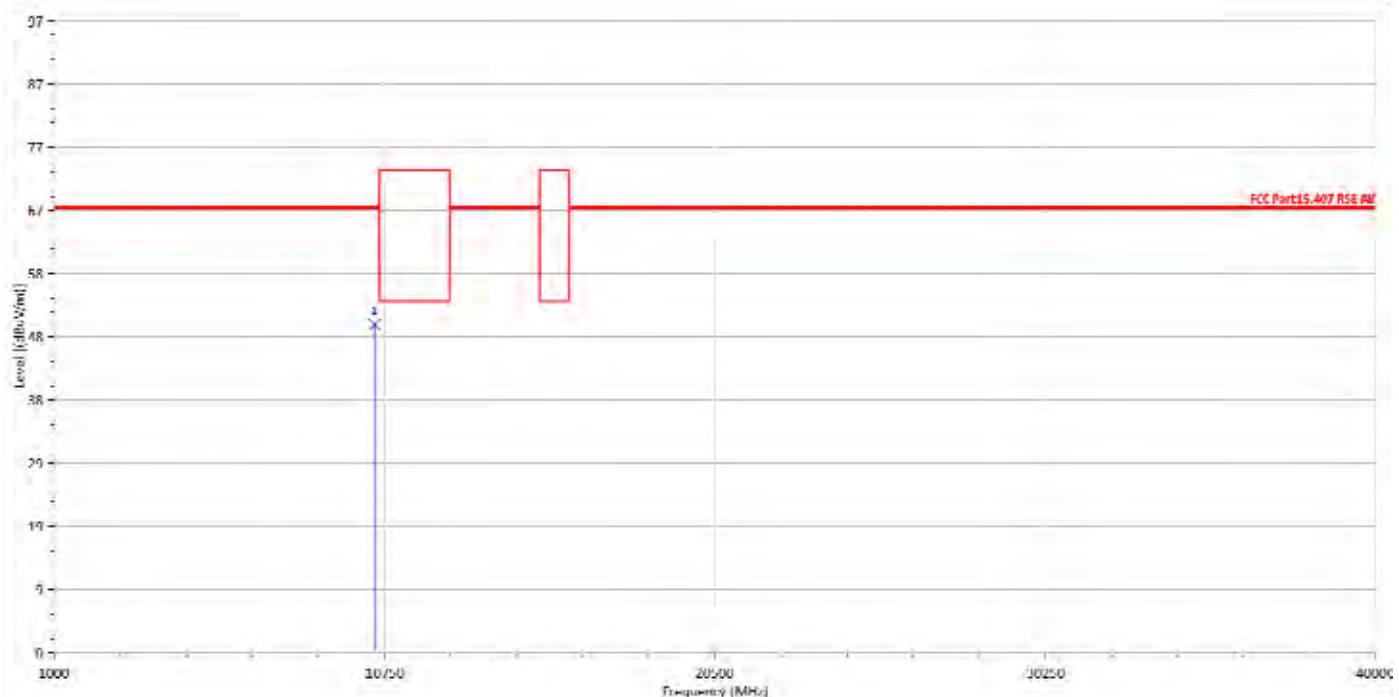
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10460.00	H	Peak	31.28	19.11	50.39	68.3	-17.91

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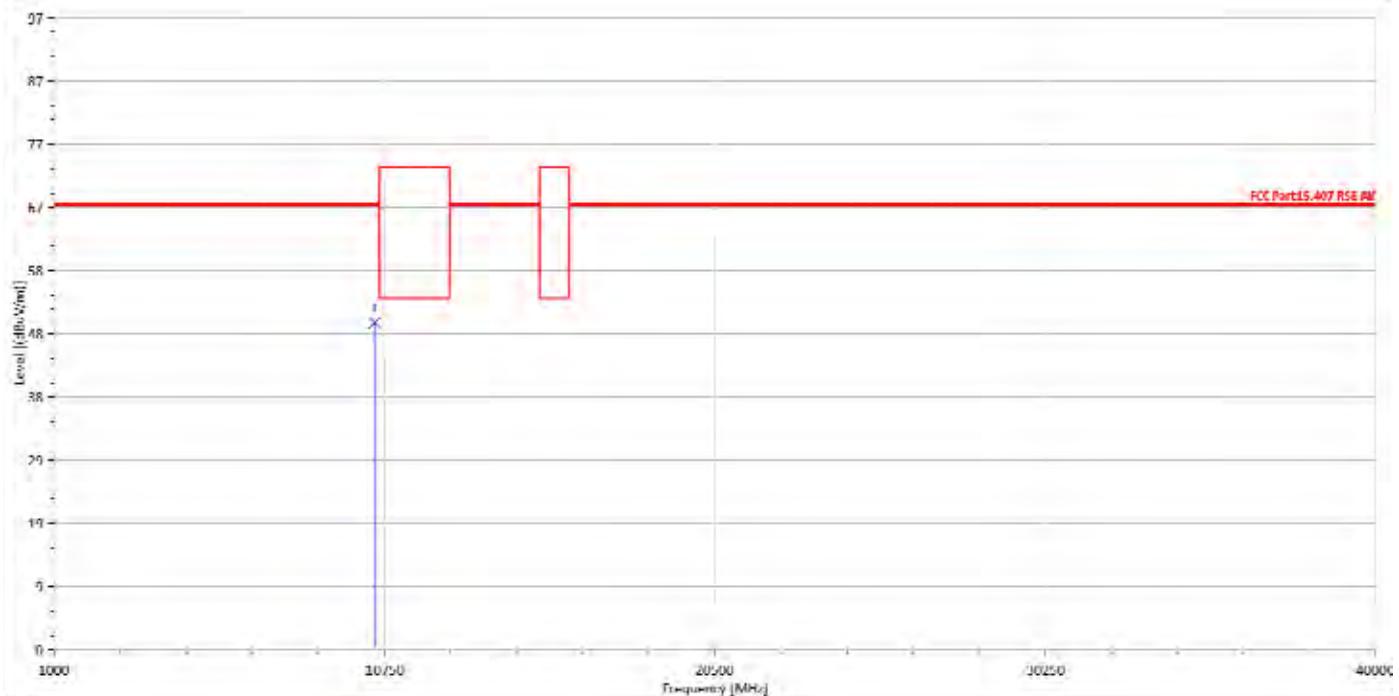
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10460.00	H	Peak	31.11	19.11	50.23	68.3	-18.07

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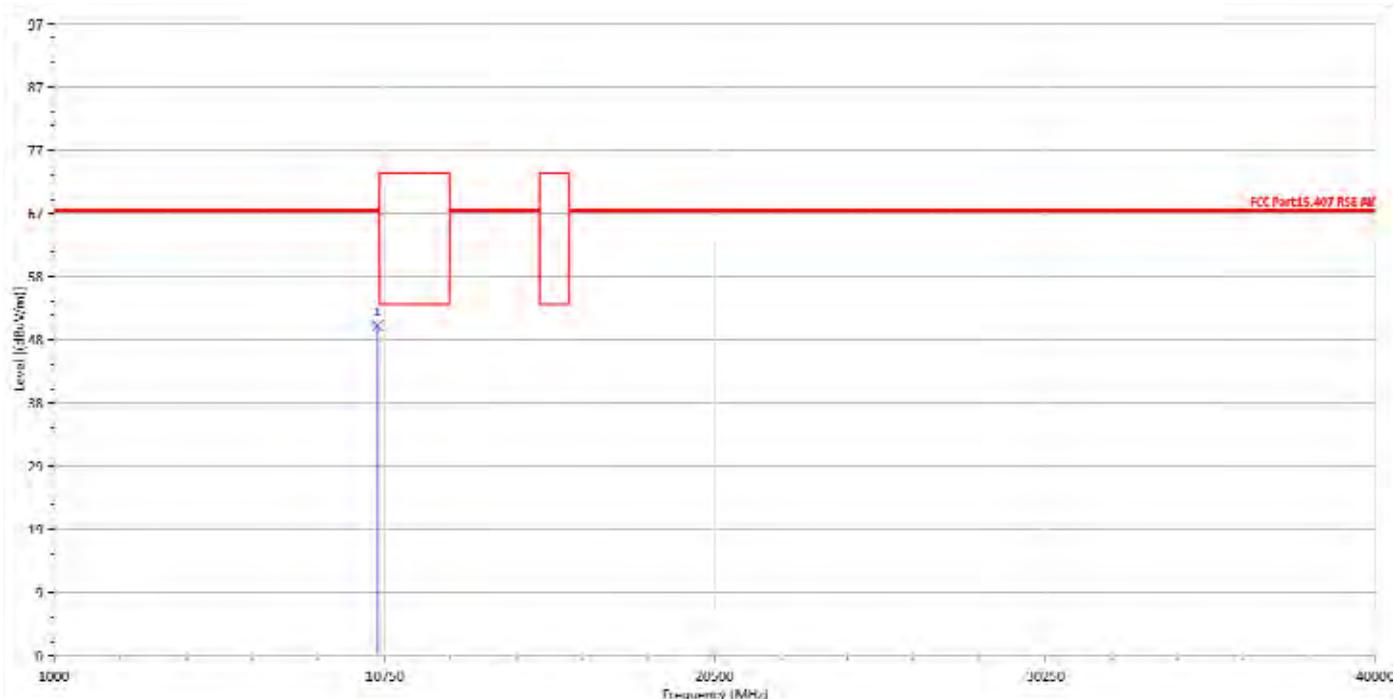
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz**

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



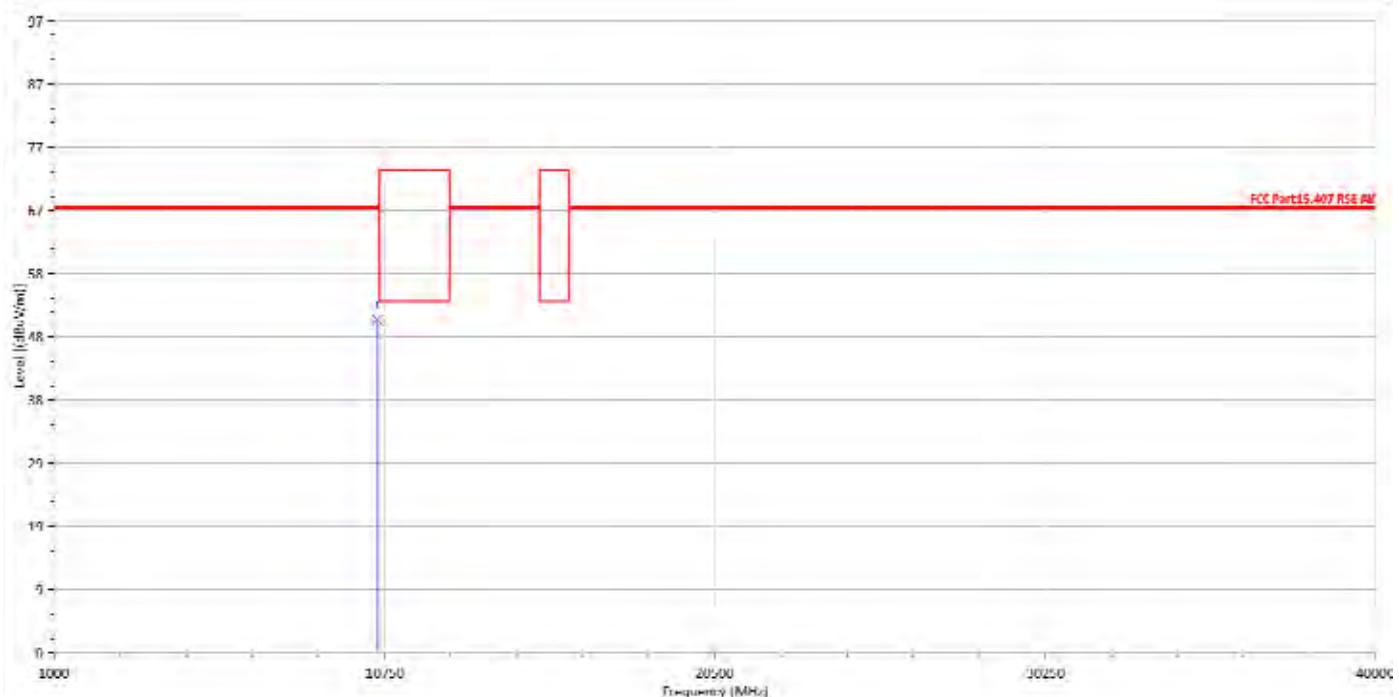
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10540.00	H	Peak	31.57	19.13	50.70	68.3	-17.60

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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
10540.00	H	PK/QP/AV	Peak	32.00	19.13	51.13	68.3 -17.17

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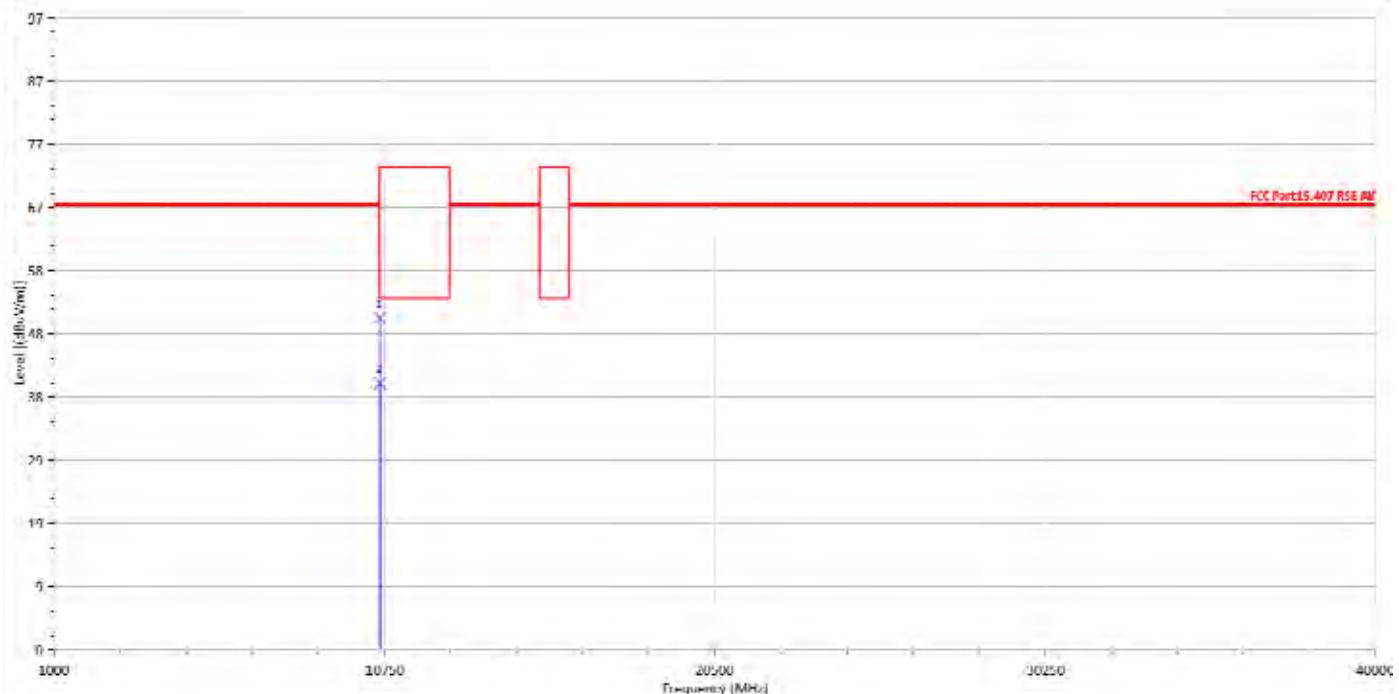
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10620.00	H	Peak	31.58	19.38	50.95	74	-23.05
10620.00	H	Average	21.44	19.38	40.82	54	-13.18

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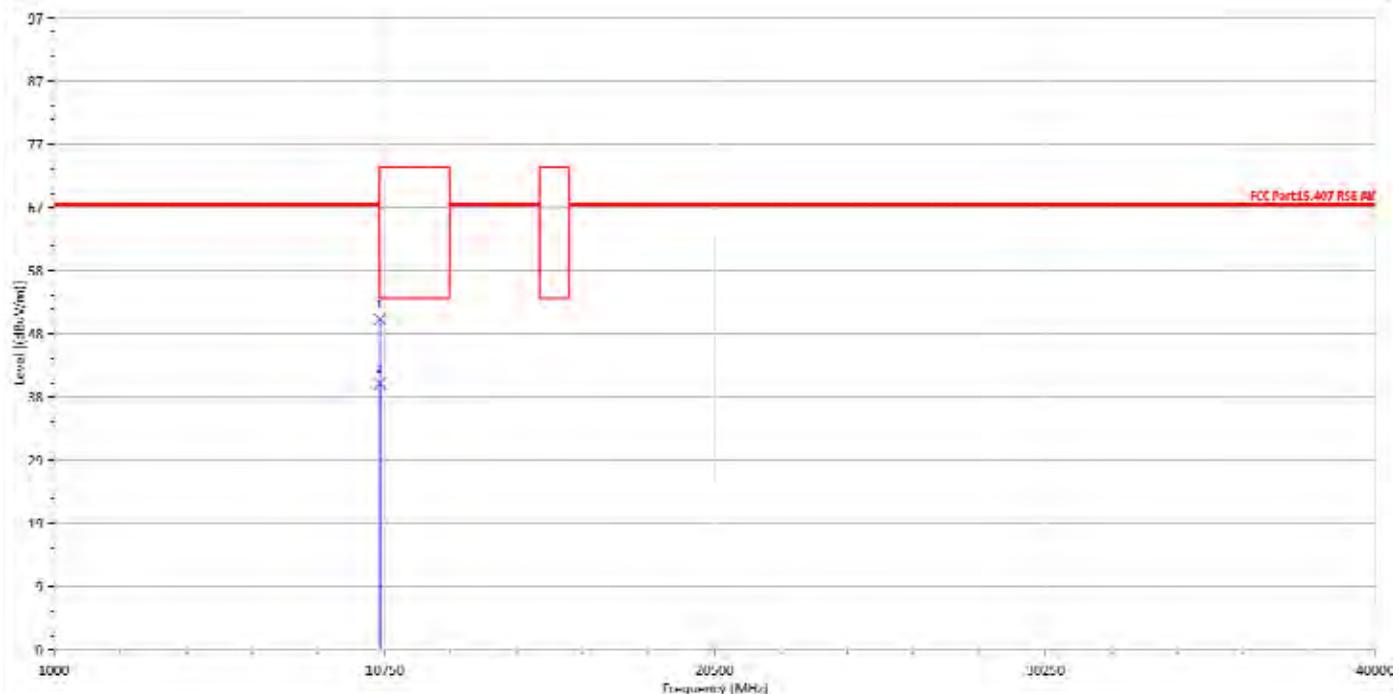
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10620.00	H	Peak	31.38	19.38	50.76	74	-23.24
10620.00	H	Average	21.42	19.38	40.80	54	-13.20

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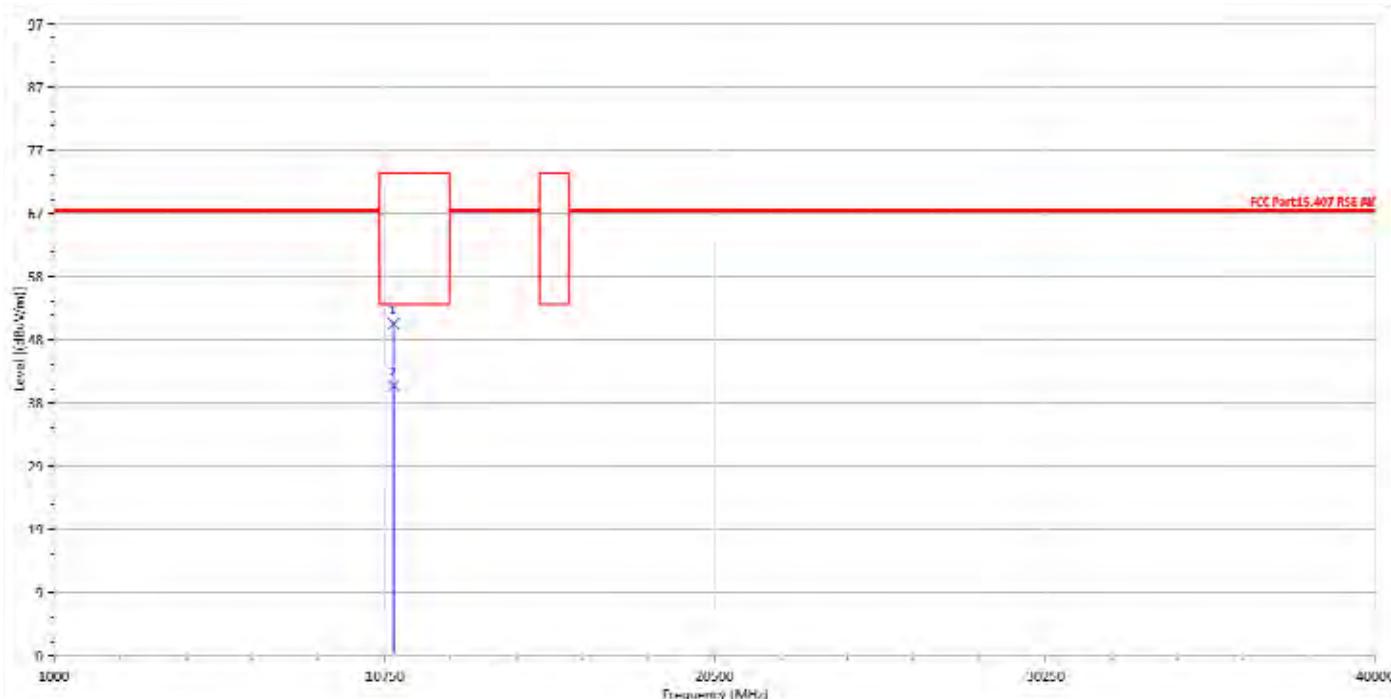
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**Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz**

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11020.00	H	Peak	30.95	20.04	50.99	74	-23.01
11020.00	H	Average	21.31	20.04	41.35	54	-12.65

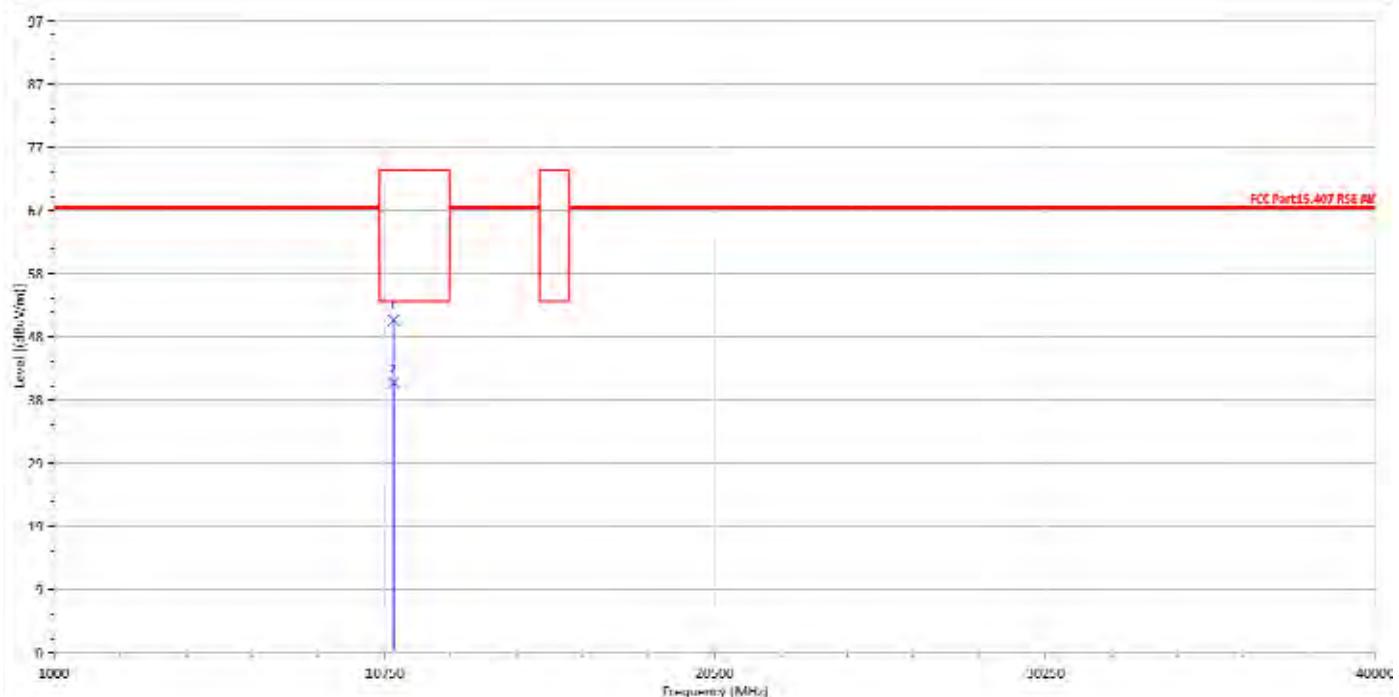
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11020.00	H	Peak	31.05	20.04	51.09	74	-22.91
11020.00	H	Average	21.31	20.04	41.35	54	-12.65

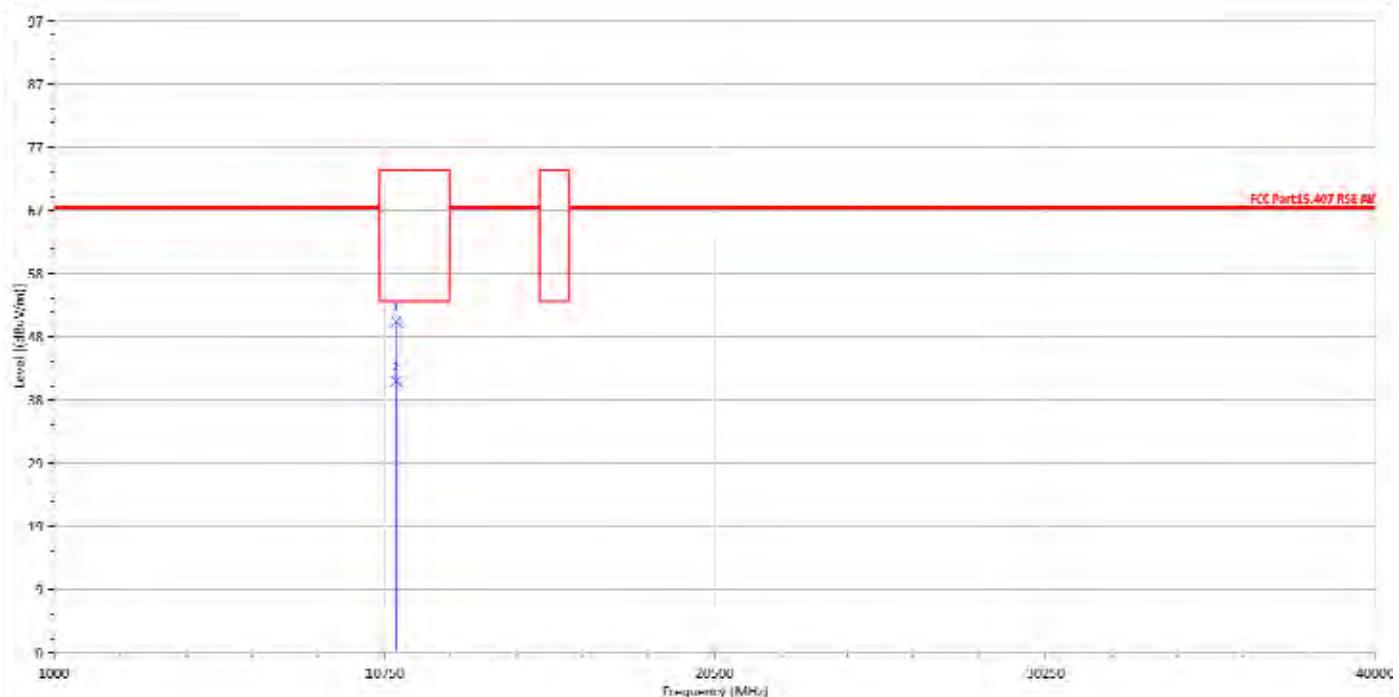
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11100.00	H	Peak	30.64	20.21	50.85	74	-23.15
11100.00	H	Average	21.37	20.21	41.58	54	-12.42

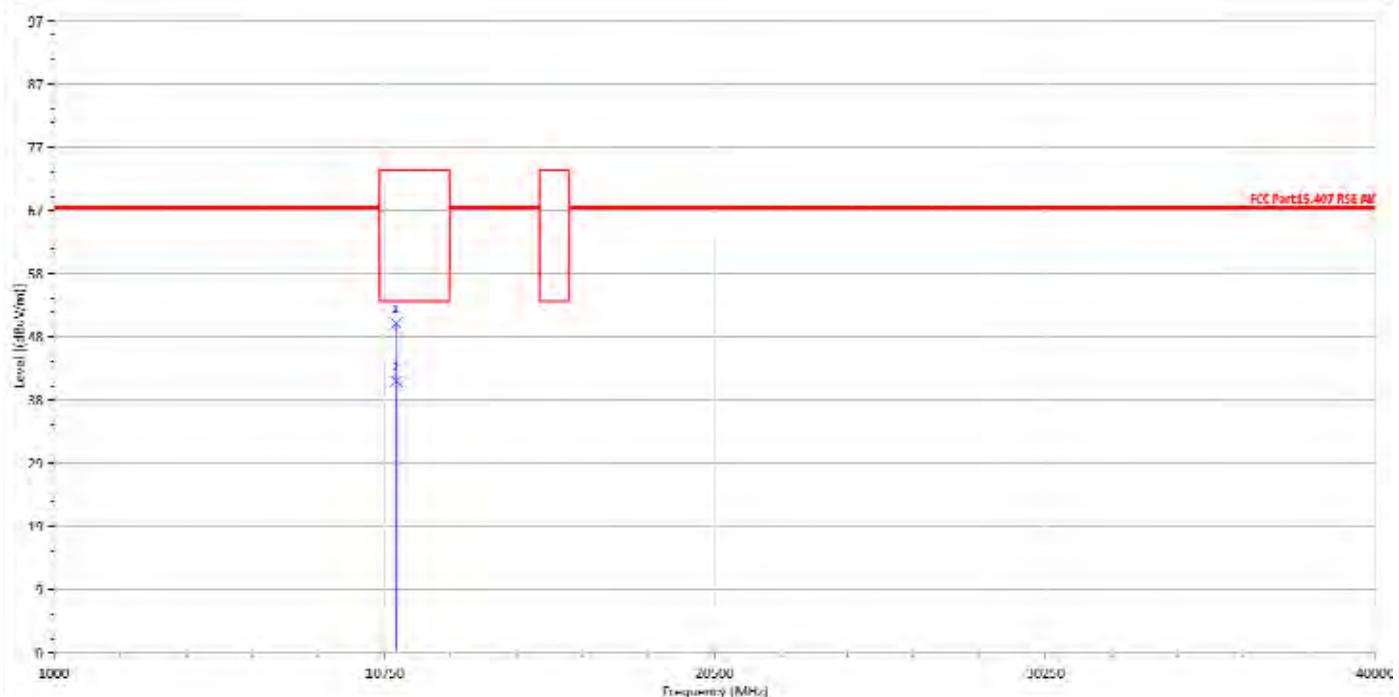
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11100.00	H	Peak	30.40	20.21	50.60	74	-23.40
11100.00	H	Average	21.38	20.21	41.59	54	-12.41

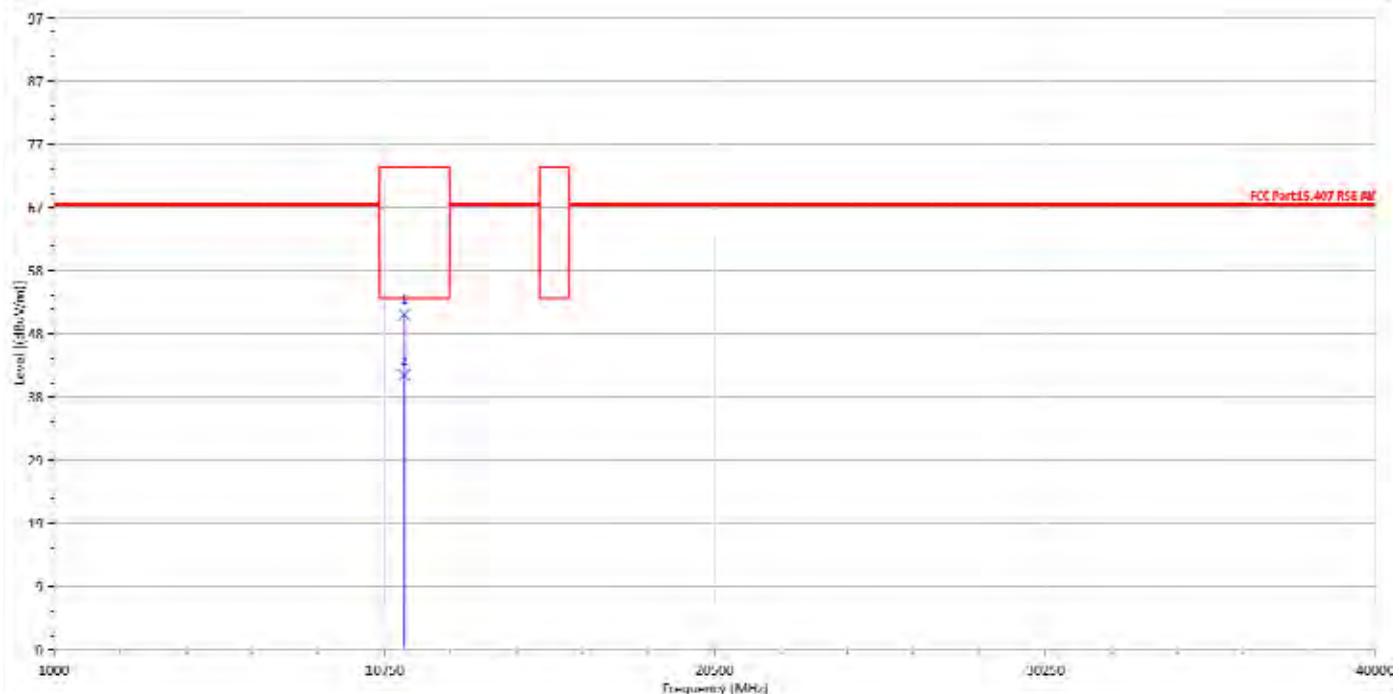
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11340.00	H	Peak	30.87	20.61	51.48	74	-22.52
11340.00	H	Average	21.47	20.61	42.08	54	-11.92

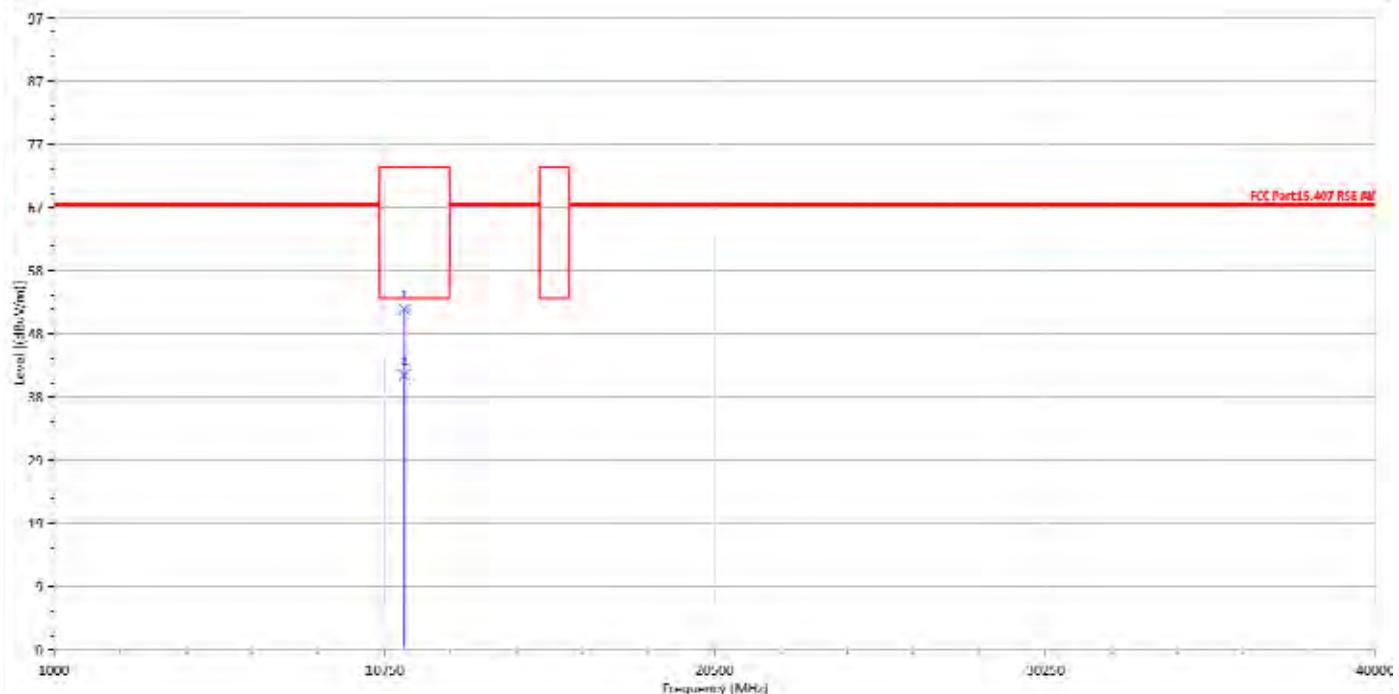
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11340.00	H	Peak	31.70	20.61	52.31	74	-21.69
11340.00	H	Average	21.46	20.61	42.07	54	-11.93

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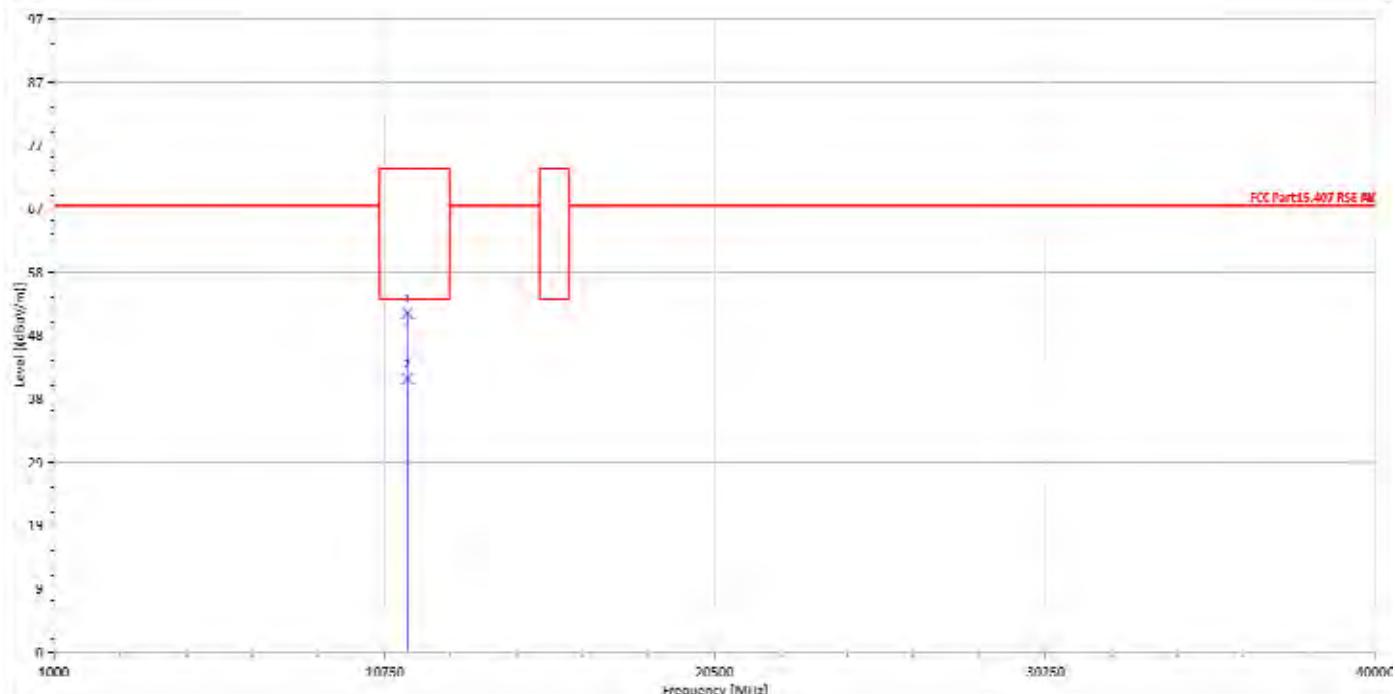
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## Radiated Spurious Emission Measurement Result 802.11ac VHT40, 5470~5725 MHz

Operation Mode : 802.11ac40 Test Date : 2016/3/22  
 Fundamental Frequency : 5710 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 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
11440.00	H	Peak	30.94	20.87	51.81	74	-22.19
11440.00	H	Average	20.97	20.87	41.84	54	-12.16

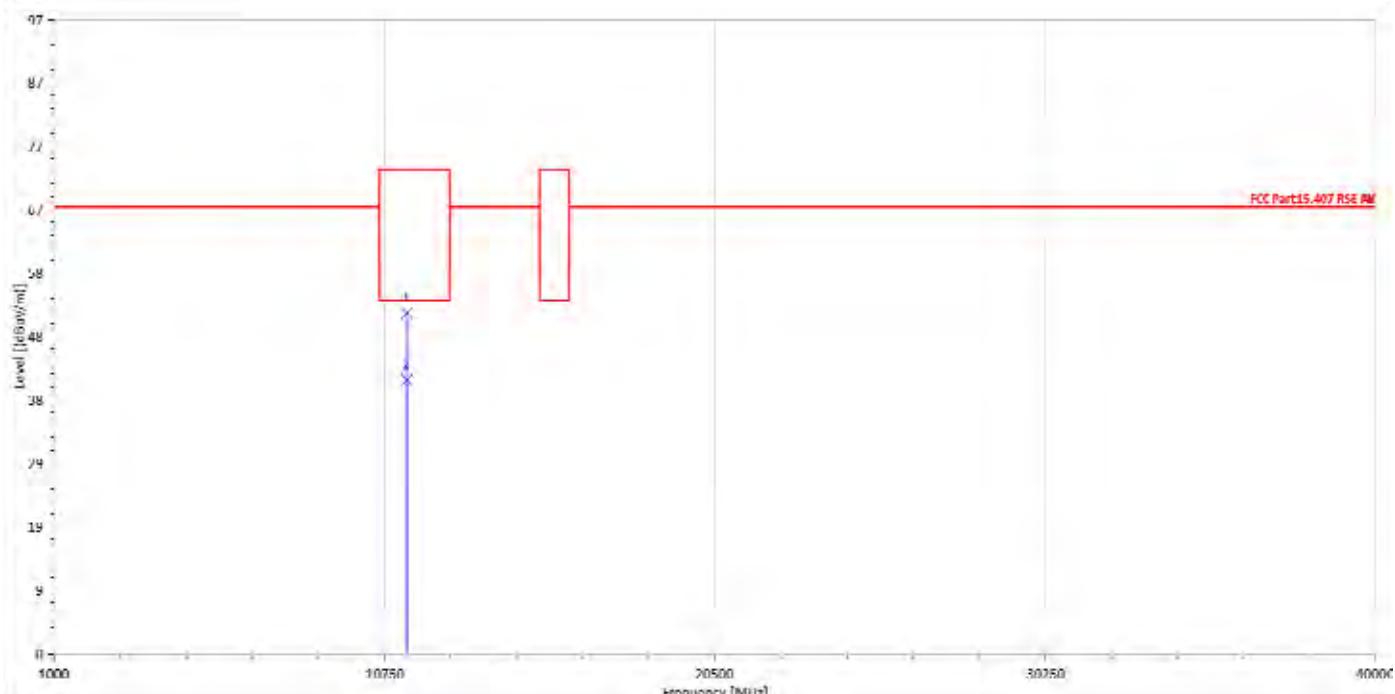
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Operation Mode : 802.11ac40 Test Date : 2016/3/22  
Fundamental Frequency : 5710 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11420.00	H	Peak	31.40	20.73	52.13	74	-21.87
11420.00	H	Average	21.14	20.73	41.87	54	-12.13

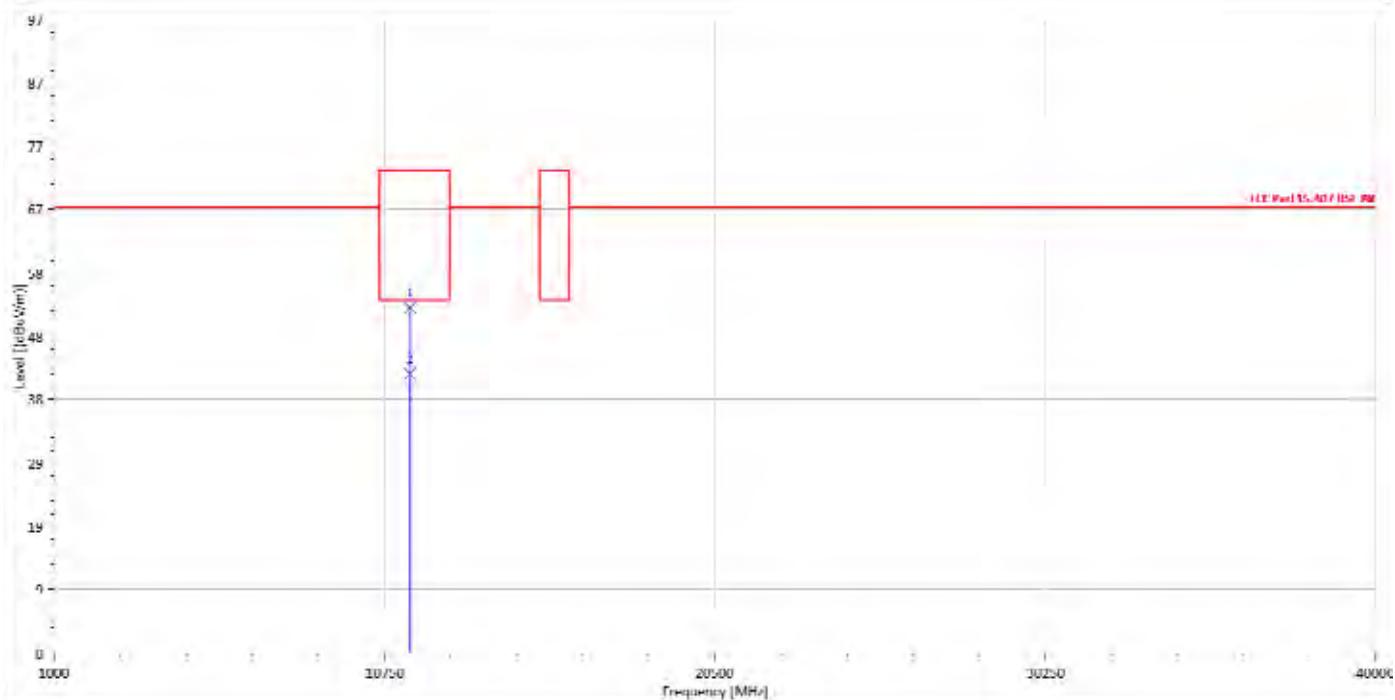
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11510.00	H	Peak	31.65	21.17	52.82	74	-21.18
11510.00	H	Average	21.59	21.17	42.76	54	-11.24

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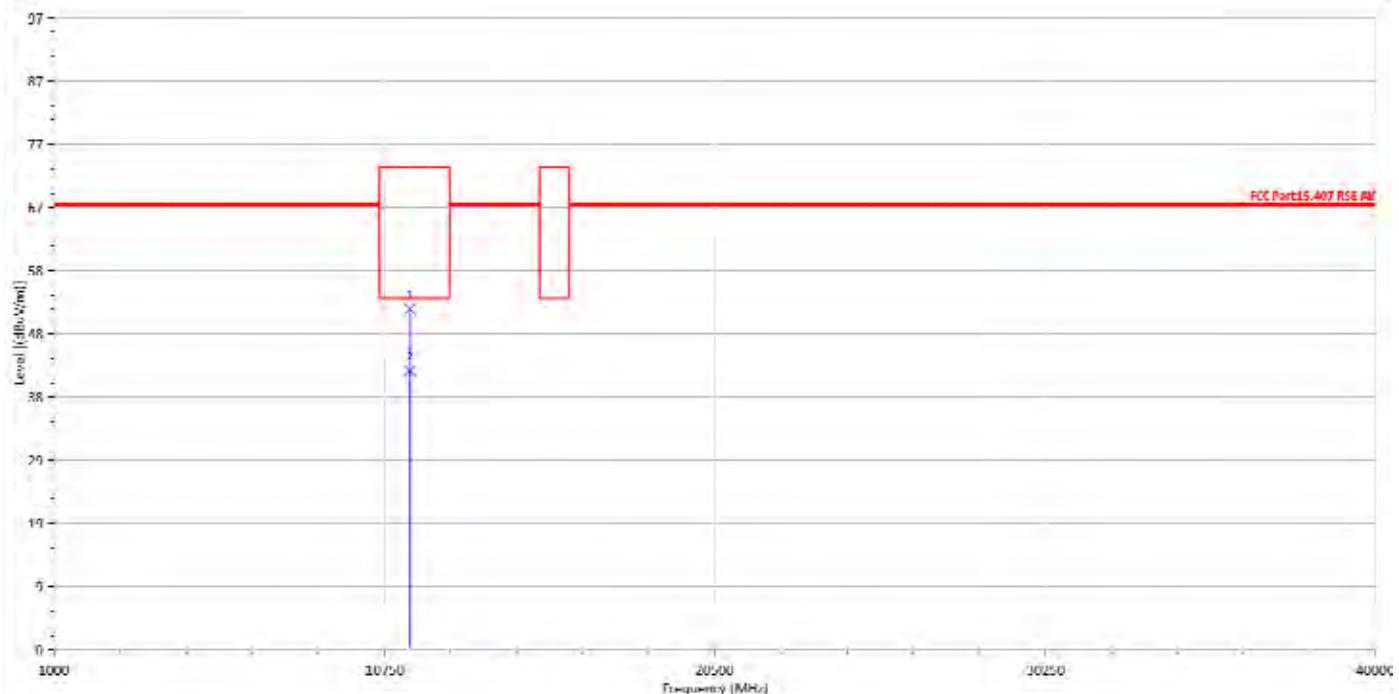
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11510.00	H	Peak	31.19	21.17	52.36	74	-21.64
11510.00	H	Average	21.58	21.17	42.75	54	-11.25

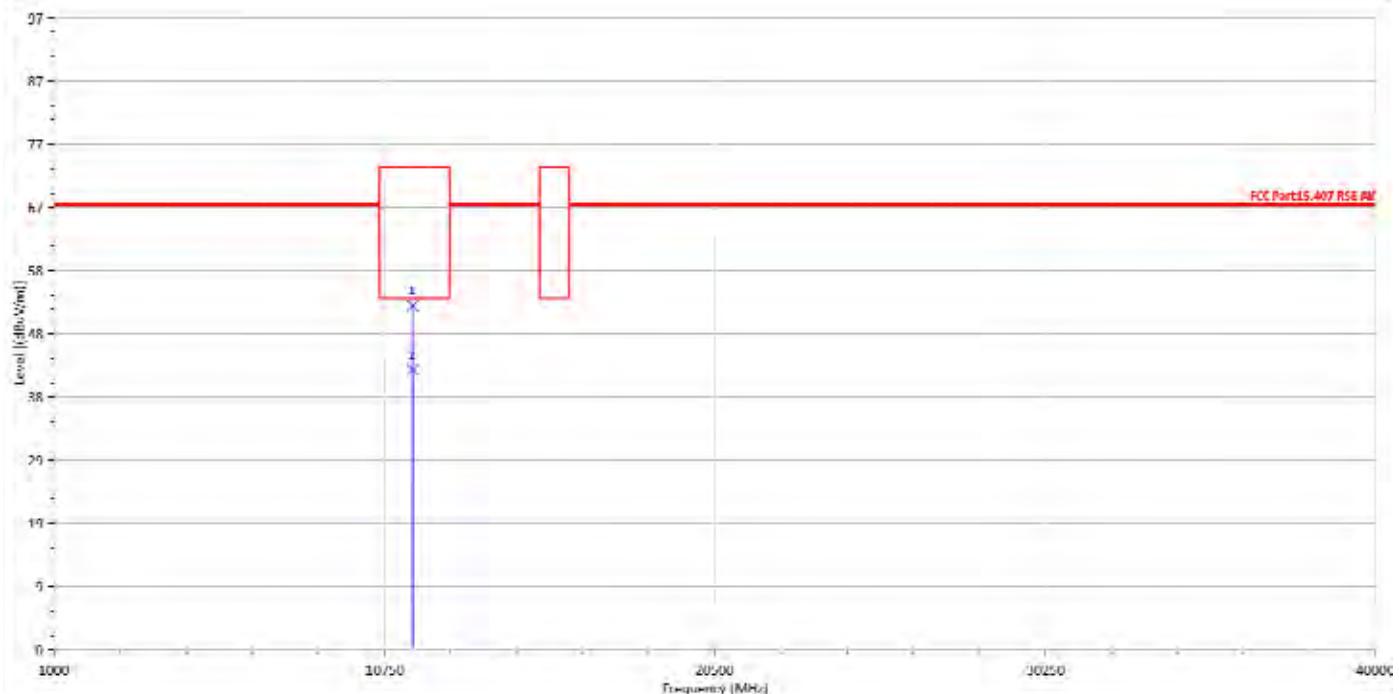
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11590.00	H	Peak	31.59	21.28	52.87	74	-21.13
11590.00	H	Average	21.65	21.28	42.93	54	-11.07

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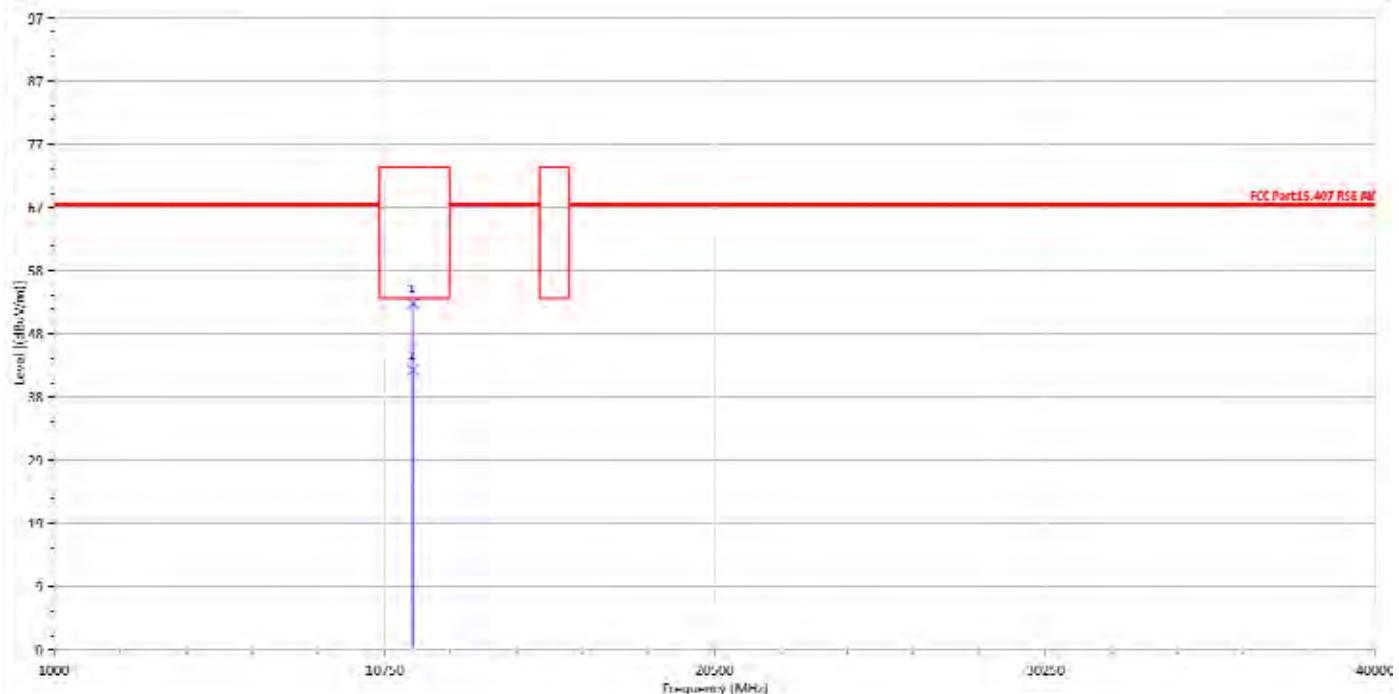
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Operation Mode : 802.11n40 Test Date : 2016/1/19  
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note	Detector Mode	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
	F/H/E/S	PK/QP/AV					
11590.00	H	Peak	31.95	21.28	53.22	74	-20.78
11590.00	H	Average	21.60	21.28	42.88	54	-11.12

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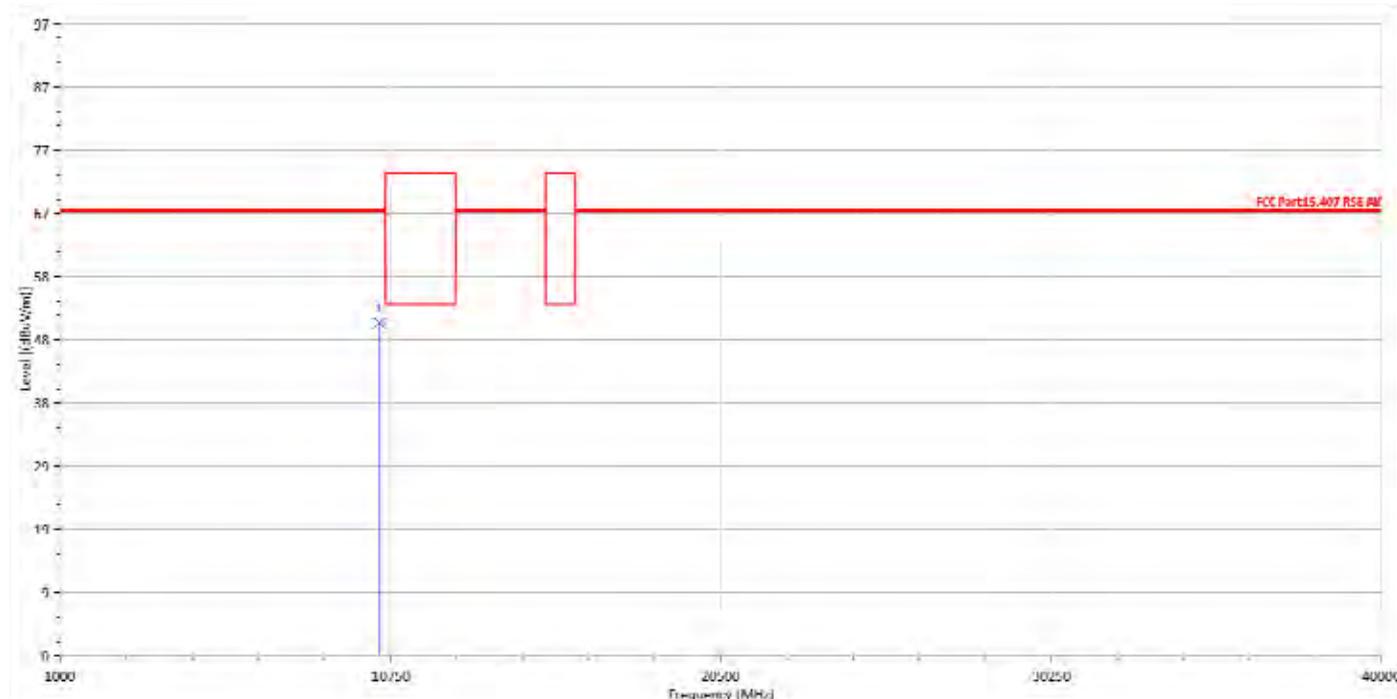
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode : 802.11ac80      Test Date : 2016/1/18  
Fundamental Frequency : 5210 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
10420.00	H	Peak	32.15	18.96	51.10	68.3	-17.20

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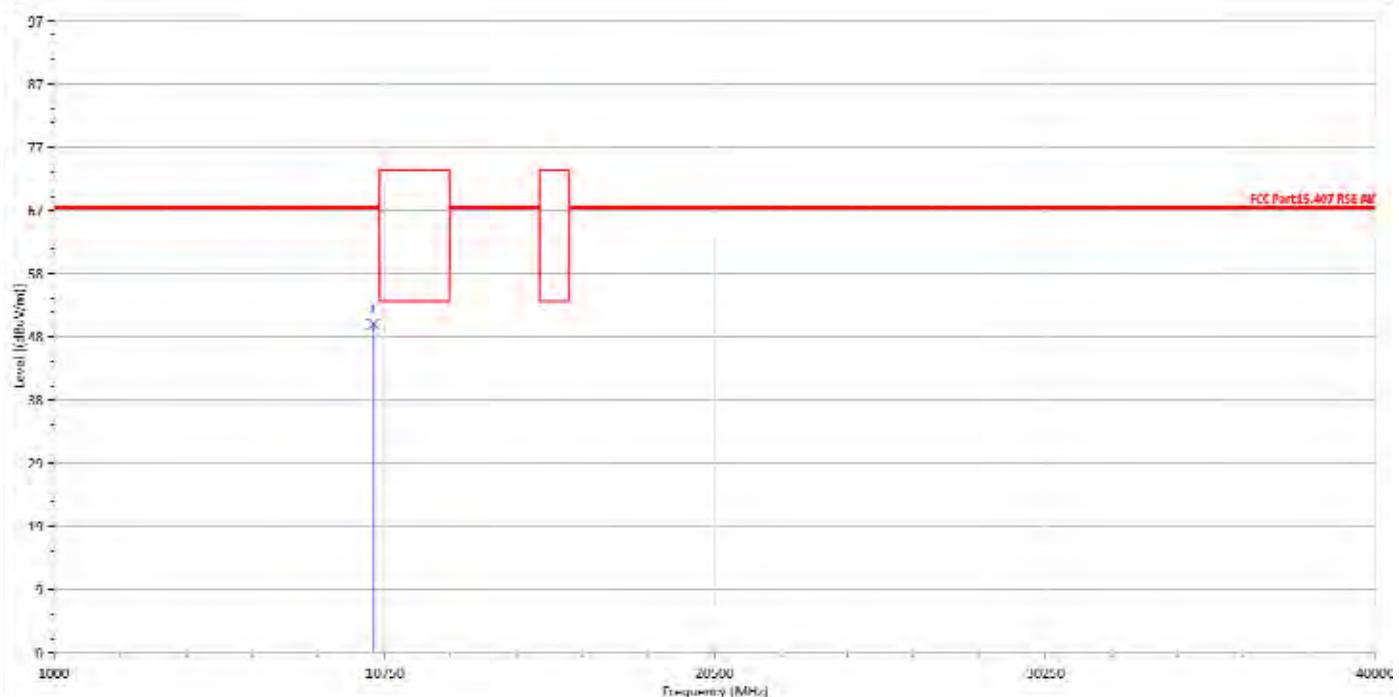
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Operation Mode : 802.11ac80      Test Date : 2016/1/18  
Fundamental Frequency : 5210 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10420.00	H	Peak	31.51	18.96	50.47	68.3	-17.83

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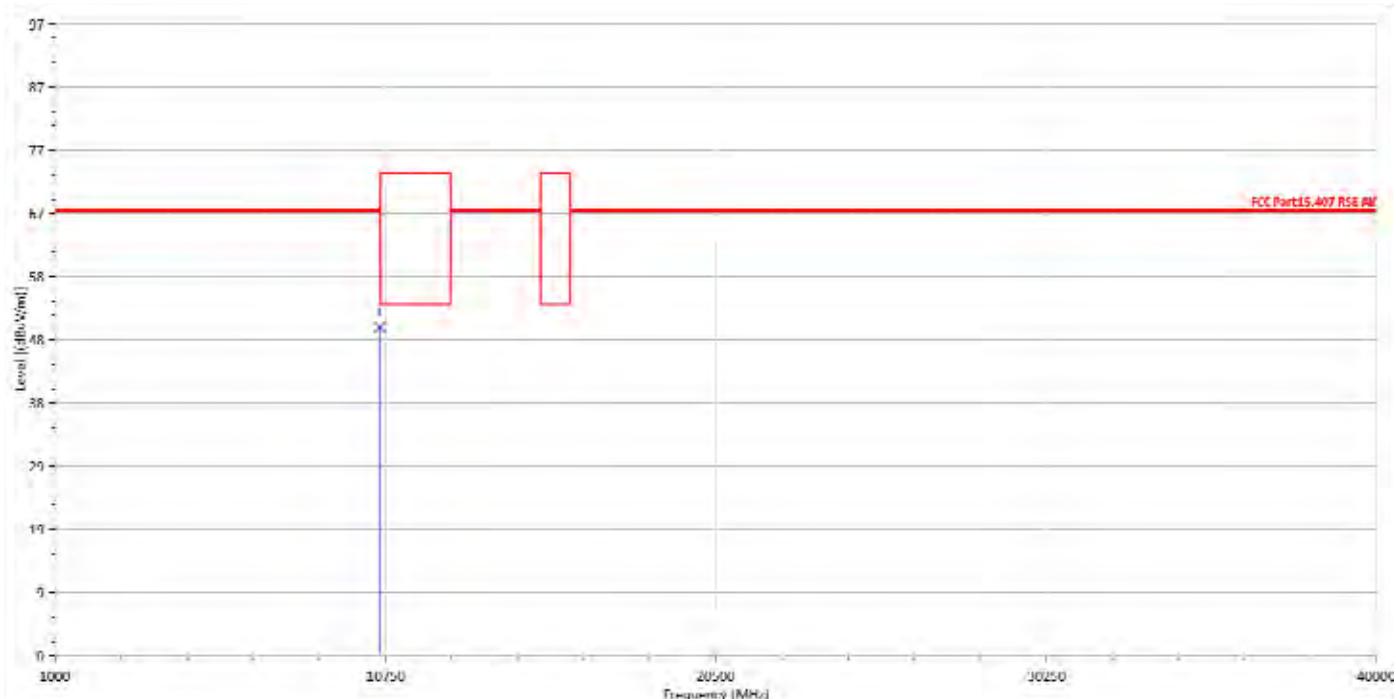
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**Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz**

Operation Mode : 802.11ac80      Test Date : 2016/1/18  
Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB <sub>u</sub> V	Factor dB	Actual FS dB <sub>u</sub> V/m	Limit @3m dB <sub>u</sub> V/m	Margin dB
10580.00	H	Peak	31.17	19.29	50.46	68.3	-17.84

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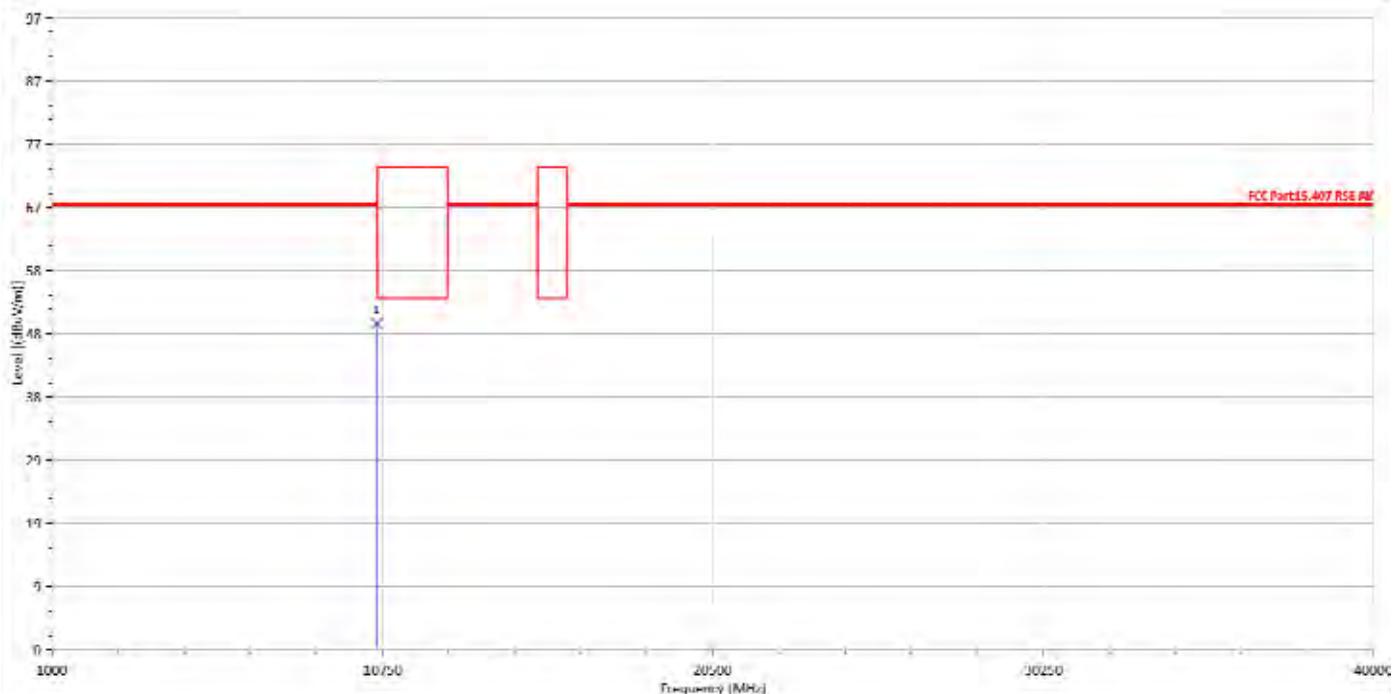
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Operation Mode : 802.11ac80      Test Date : 2016/1/18  
Fundamental Frequency : 5290 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
10580.00	H	Peak	30.80	19.29	50.09	68.3	-18.21

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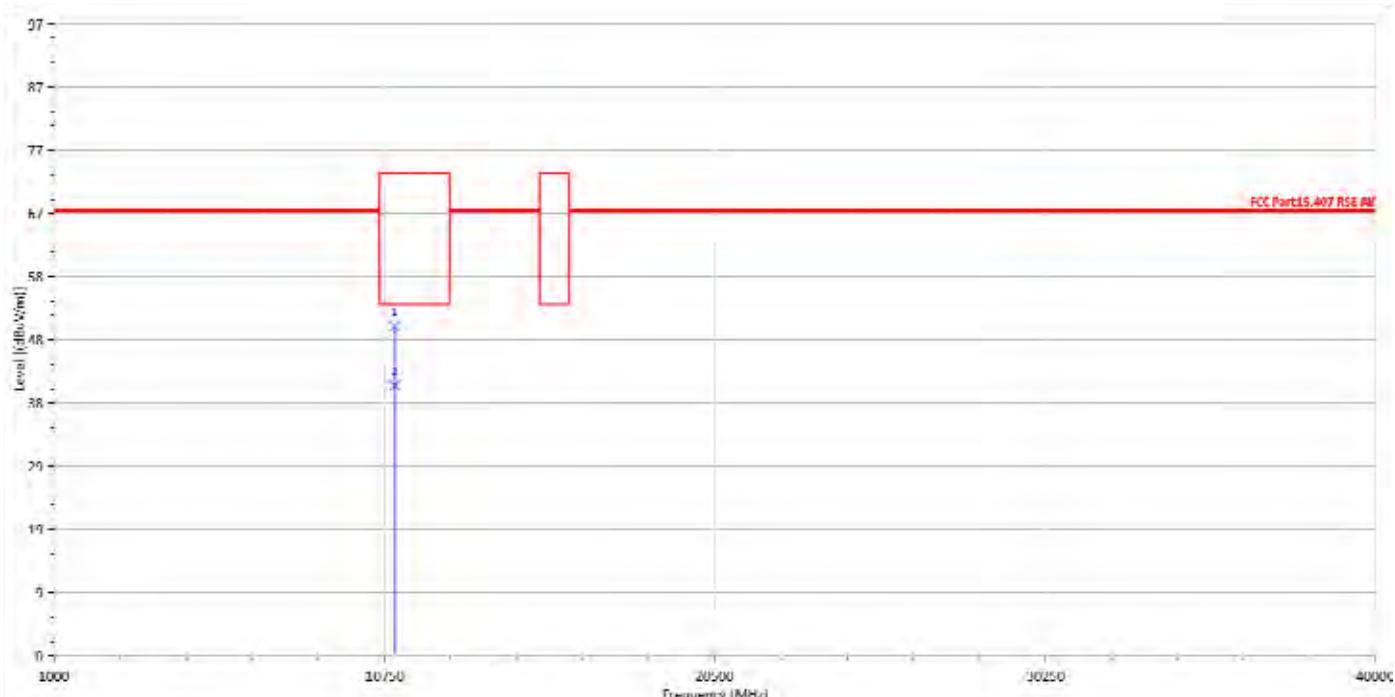
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode : 802.11ac80      Test Date : 2016/1/18  
 Fundamental Frequency : 5530 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11060.00	H	Peak	30.46	20.14	50.60	74	-23.40
11060.00	H	Average	21.28	20.14	41.42	54	-12.58

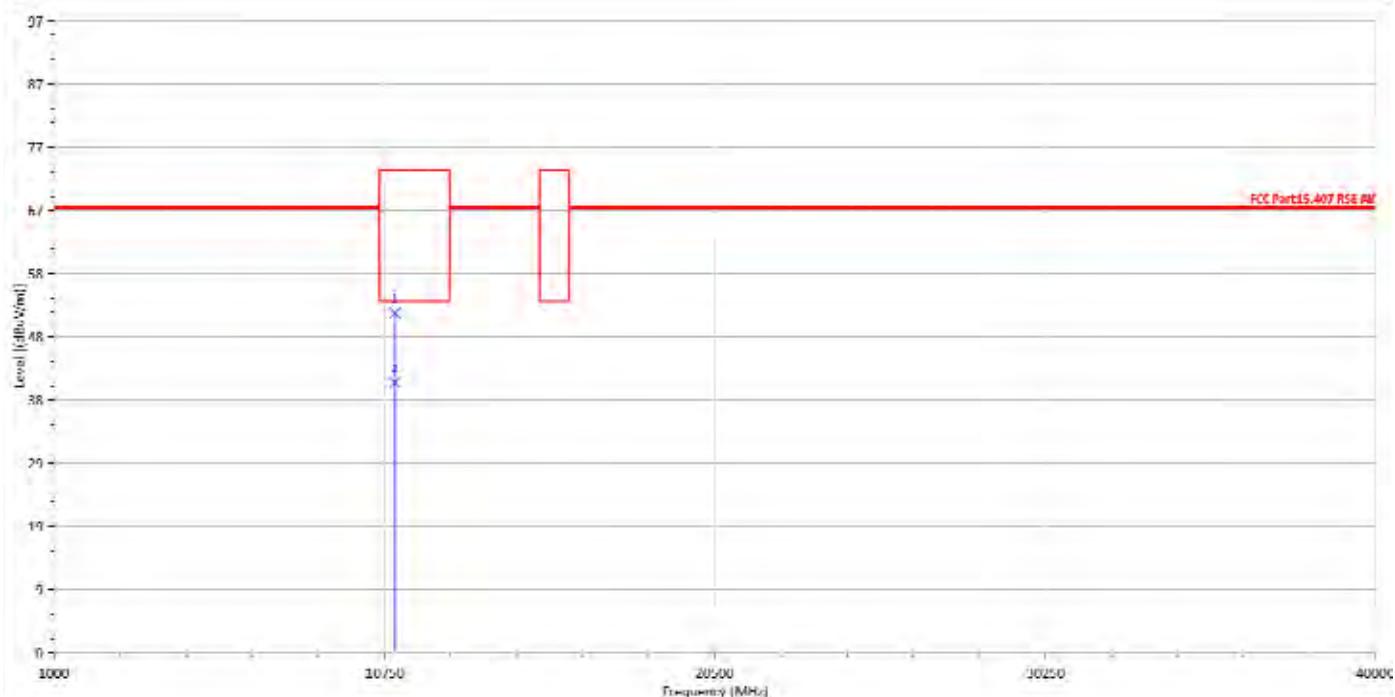
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Operation Mode : 802.11ac80      Test Date : 2016/1/18  
 Fundamental Frequency : 5530 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11060.00	H	Peak	32.04	20.14	52.18	74	-21.82
11060.00	H	Average	21.27	20.14	41.41	54	-12.59

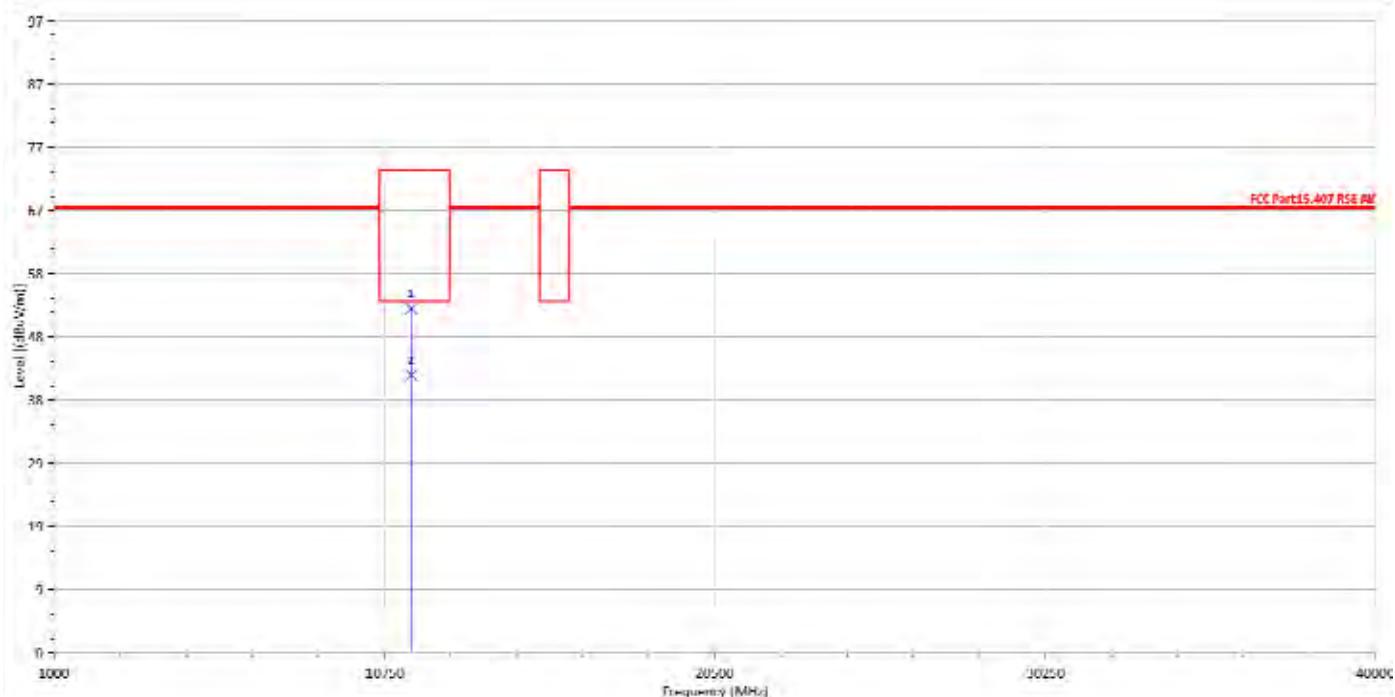
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Operation Mode : 802.11ac80      Test Date : 2016/1/19  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11220.00	H	Peak	31.86	20.97	52.85	74	-21.15
11220.00	H	Average	21.57	20.97	42.56	54	-11.44

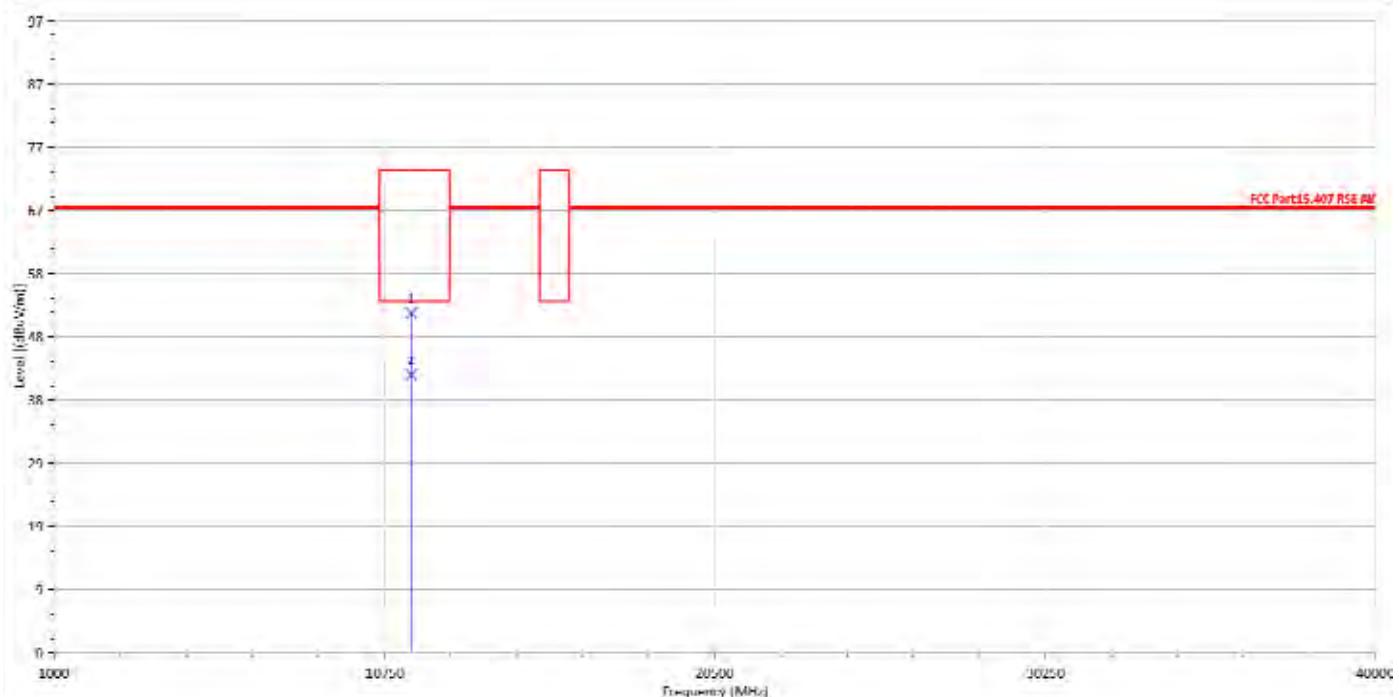
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Operation Mode : 802.11ac80      Test Date : 2016/1/19  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



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
11220.00	H	Peak	31.20	20.97	52.18	74	-21.82
11220.00	H	Average	21.61	20.97	42.58	54	-11.42

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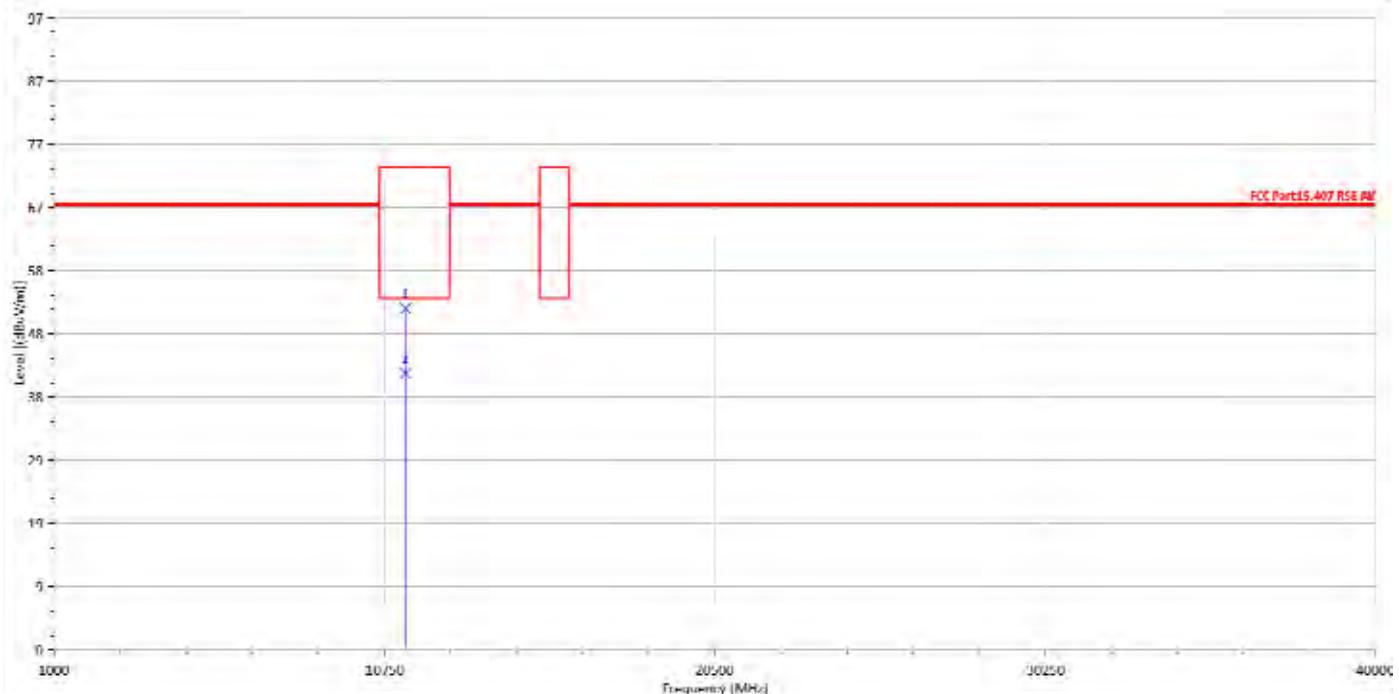
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Operation Mode : 802.11ac80      Test Date : 2016/1/18  
 Fundamental Frequency : 5690 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



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
11380.00	H	Peak	31.58	20.84	52.42	74	-21.58
11380.00	H	Average	21.53	20.84	42.37	54	-11.63

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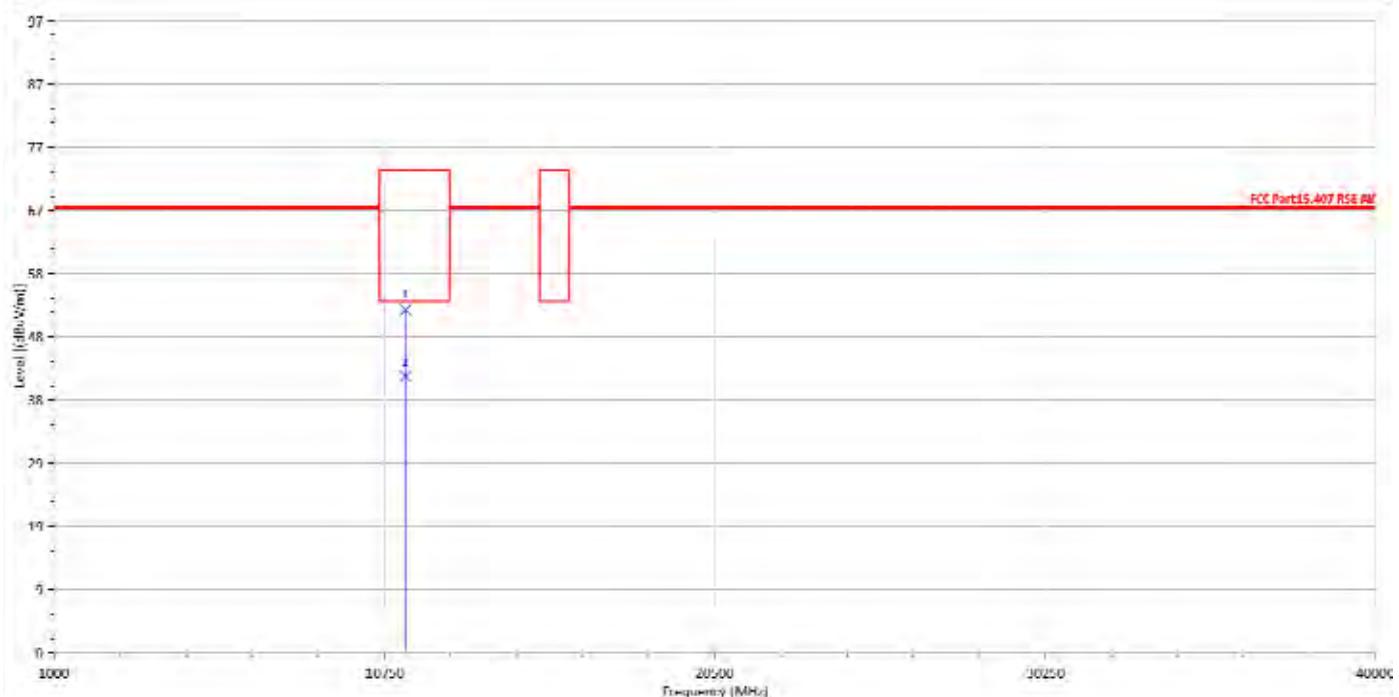
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Operation Mode : 802.11ac80  
 Fundamental Frequency : 5690 MHz  
 Operation Band : Tx CH High  
 EUT Pol. : E2

Test Date : 2016/1/18  
 Temp. / Humi. : 22.7deg\_C/57RH  
 Test Engineer : Pony  
 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11380.00	H	Peak	31.84	20.84	52.68	74	-21.32
11380.00	H	Average	21.53	20.84	42.37	54	-11.63

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

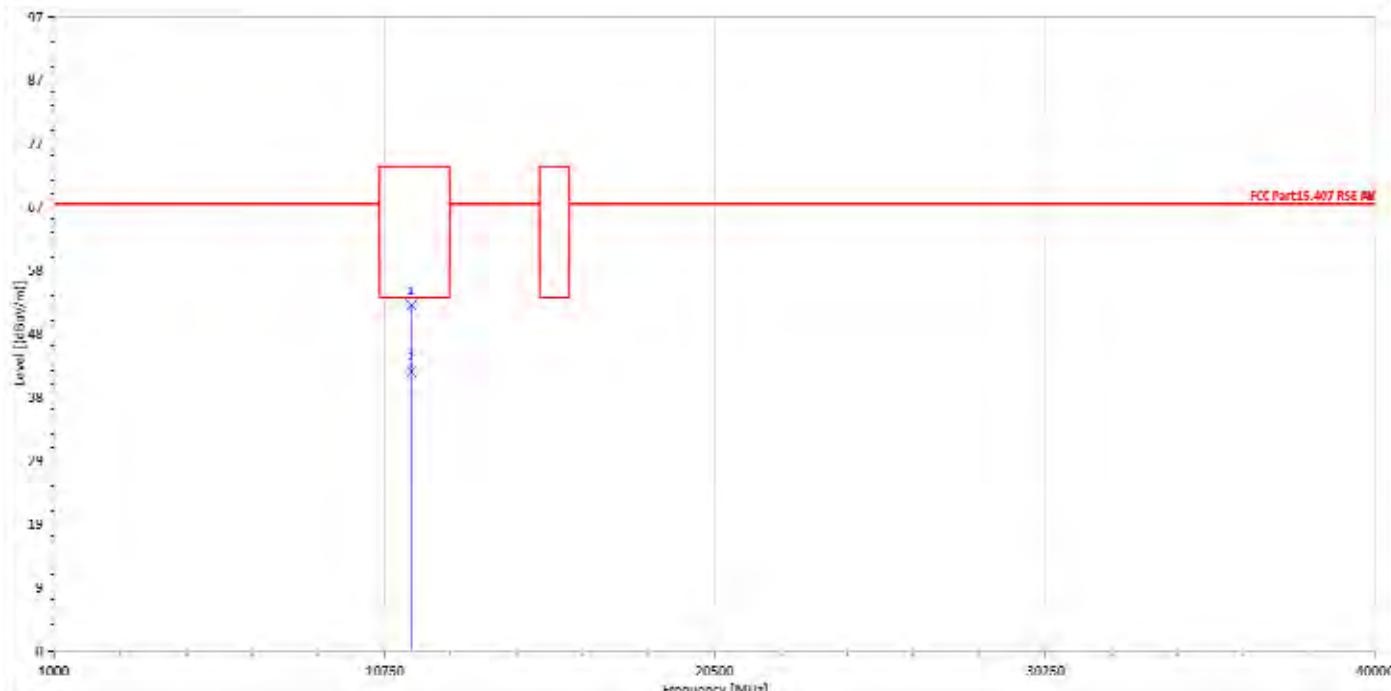
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode : 802.11ac80 Test Date : 2016/1/18  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/A/V	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
11550.00	H	Peak	31.88	20.97	52.85	74	-21.15
11550.00	H	Average	21.64	20.97	42.61	54	-11.39

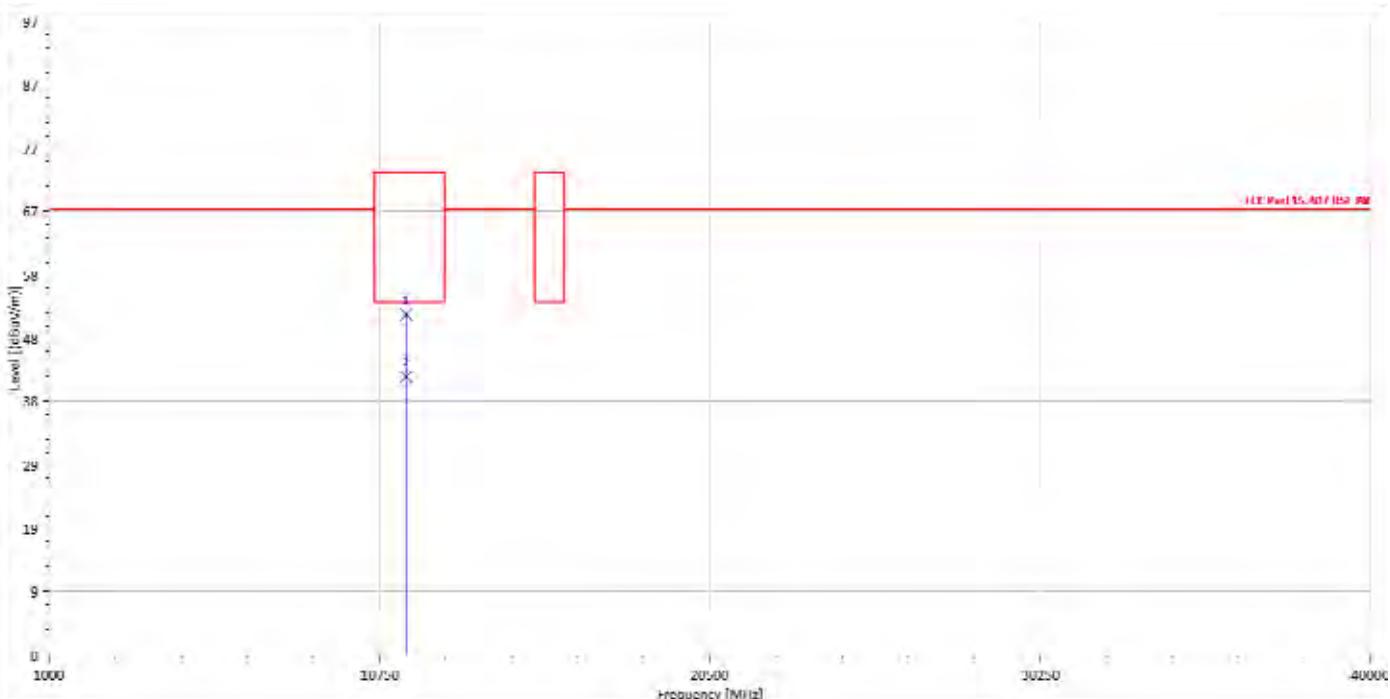
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Operation Mode : 802.11ac80 Test Date : 2016/1/18  
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
11550.00	H	Peak	31.20	20.97	52.18	74	-21.82
11550.00	H	Average	21.63	20.97	42.60	54	-11.40

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**Band edge falling to restricted band****802.11a mode**

Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V	dB				
5150.00	E	Peak	41.85	11.14	52.99	74	-21.01	
5150.00	E	Average	31.56	11.14	42.70	54	-11.30	

Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V	dB				
5150.00	E	Peak	43.83	11.14	54.97	74	-19.03	
5150.00	E	Average	32.31	11.14	43.45	54	-10.55	

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Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5350.00	E	Peak	45.67	11.30	56.97	74	-17.03
5350.00	E	Average	32.52	11.30	43.82	54	-10.18

Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5350.00	E	Peak	48.67	11.30	59.97	74	-14.03
5350.00	E	Average	33.24	11.30	44.54	54	-9.46

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Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5460.00	E	Peak	42.24	11.46	53.70	74	-20.30
5460.00	E	Average	32.03	11.46	43.49	54	-10.51

Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5460.00	E	Peak	44.15	11.46	55.61	74	-18.39
5460.00	E	Average	32.54	11.46	44.00	54	-10.00

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Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low RSE Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	FS	@3m	
5470.00	E	PK/QP/AV Peak	42.79	11.46	54.25	68.3	-14.05

Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low RSE Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	FS	@3m	
5461.64	S	PK/QP/AV Peak	47.21	11.46	58.67	68.3	-9.63
5470.00	E	PK/QP/AV Peak	45.02	11.46	56.48	68.3	-11.82

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Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	FS	@3m	
		PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5725.00	E	Peak	51.34	12.27	63.61	68.3	-4.69

Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	FS	@3m	
		PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5725.00	E	Peak	52.10	12.27	64.37	68.3	-3.93

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Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @ 3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V				
5711.00	S	Peak	43.15	12.32	55.46	68.3	-12.84
5724.00	S	Peak	47.44	12.27	59.72	78.2	-18.48
5725.00	E	Peak	47.28	12.27	59.55	78.2	-18.65

Operation Mode : 802.11a Test Date : 2016/1/16  
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @ 3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V				
5713.10	S	Peak	44.78	12.31	57.08	68.3	-11.22
5722.90	S	Peak	49.13	12.28	61.41	78.2	-16.79
5725.00	E	Peak	48.03	12.27	60.30	78.2	-17.90

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Operation Mode : 802.11a Test Date : 2016/1/16  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	50.85	12.61	63.46	78.2	-14.74
5851.30	S	Peak	49.79	12.62	62.41	78.2	-15.79
5860.70	S	Peak	44.89	12.71	57.60	68.3	-10.70

Operation Mode : 802.11a Test Date : 2016/1/16  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : BE CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	53.35	12.61	65.96	78.2	-12.24
5850.60	S	Peak	52.98	12.62	65.59	78.2	-12.61
5860.30	S	Peak	46.60	12.71	59.31	68.3	-8.99

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**802.11n20 HT mode**

Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5150.00	E	Peak	41.89	11.14	53.03	74	-20.97
5150.00	E	Average	31.66	11.14	42.80	54	-11.20

Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5180 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5150.00	E	Peak	43.95	11.14	55.10	74	-18.90
5150.00	E	Average	32.28	11.14	43.42	54	-10.58

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Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5350.00	E	Peak	44.83	11.30	56.14	74	-17.86
5350.00	E	Average	32.59	11.30	43.89	54	-10.11

Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5350.00	E	Peak	46.73	11.30	58.03	74	-15.97
5350.00	E	Average	32.45	11.30	43.75	54	-10.25

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Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5460.00	E	Peak	42.90	11.46	54.36	74	-19.64
5460.00	E	Average	32.32	11.46	43.78	54	-10.22

Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5460.00	E	Peak	43.71	11.46	55.17	74	-18.83
5460.00	E	Average	32.46	11.46	43.92	54	-10.08

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Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low RSE Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	@3m		
5470.00	E	PK/QP/AV	Peak dB $\mu$ V	43.72	11.46	55.18	68.3

Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5500 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low RSE Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	@3m		
5470.00	E	PK/QP/AV	Peak dB $\mu$ V	44.23	11.46	55.68	68.3

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Operation Mode : 802.11n20 Test Date : 2016/1/21  
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5725.00	E	PK/QP/AV	Peak	54.15	12.27	66.42	68.3 -1.88

Operation Mode : 802.11n20 Test Date : 2016/1/21  
Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5725.00	E	PK/QP/AV	Peak	55.94	12.27	68.21	68.3 -0.09
5725.88	S	PK/QP/AV	Peak	55.64	12.27	67.91	68.3 -0.39

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Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5712.80	S	Peak	43.24	12.31	55.55	68.3	-12.75
5724.50	S	Peak	48.44	12.27	60.71	78.2	-17.49
5725.00	E	Peak	49.02	12.27	61.29	78.2	-16.91

Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5706.60	S	Peak	45.60	12.32	57.92	68.3	-10.38
5723.50	S	Peak	47.52	12.27	59.79	78.2	-18.41
5725.00	E	Peak	49.90	12.27	62.17	78.2	-16.03

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Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5850.00	E	Peak	49.38	12.61	61.99	78.2	-16.21
5850.40	S	Peak	49.59	12.62	62.20	78.2	-16.00
5861.10	S	Peak	42.87	12.72	55.59	68.3	-12.71

Operation Mode : 802.11n20 Test Date : 2016/1/16  
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5850.00	E	Peak	52.76	12.61	65.37	78.2	-12.83
5850.90	S	Peak	53.03	12.62	65.65	78.2	-12.55
5860.30	S	Peak	46.44	12.71	59.15	68.3	-9.15

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**802.11n40 HT mode**

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5150.00	E	Peak	42.92	11.14	54.06	74	-19.94
5150.00	E	Average	31.70	11.14	42.84	54	-11.16

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5190 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5149.24	S	Peak	45.14	11.14	56.29	74	-17.71
5149.24	S	Average	32.81	11.14	43.95	54	-10.05
5150.00	E	Peak	44.12	11.14	55.26	74	-18.74
5150.00	E	Average	32.84	11.14	43.98	54	-10.02

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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5350.00	E	Peak	46.89	11.30	58.19	74	-15.81
5350.00	E	Average	33.04	11.30	44.34	54	-9.66

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5350.00	E	Peak	47.46	11.30	58.76	74	-15.24
5350.00	E	Average	32.80	11.30	44.10	54	-9.90

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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5460.00	E	Peak	45.71	11.46	57.17	74	-16.83
5460.00	E	Average	33.13	11.46	44.59	54	-9.41

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5460.00	E	Peak	46.76	11.46	58.22	74	-15.78
5460.00	E	Average	33.03	11.46	44.49	54	-9.51

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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low RSE Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5469.60	S	Peak	51.89	11.46	63.34	68.3	-4.96
5470.00	E	Peak	51.01	11.46	62.47	68.3	-5.83

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5510 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low RSE Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5470.00	E	Peak	53.16	11.46	64.62	68.3	-3.68

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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5725.00	E	PK/QP/AV	Peak	41.18	12.27	53.45	68.3 -14.85

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5725.00	E	PK/QP/AV	Peak	43.89	12.27	56.16	68.3 -12.14

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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	FS	@3m	
		PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5725.00	E	Peak	41.28	12.27	53.55	78.2	-24.65

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	FS	@3m	
		PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5725.00	E	Peak	44.44	12.27	56.71	78.2	-21.49
5725.90	S	Peak	45.74	12.27	58.01	68.3	-10.29

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Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 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	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5850.00	E	Peak	43.81	12.61	56.42	78.2	-21.78
5851.30	S	Peak	45.53	12.62	58.16	78.2	-20.04
5862.30	S	Peak	43.54	12.73	56.27	68.3	-12.03

Operation Mode : 802.11n40 Test Date : 2016/1/19  
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5850.00	E	Peak	45.46	12.61	58.07	78.2	-20.13
5851.10	S	Peak	46.86	12.62	59.48	78.2	-18.72
5871.30	S	Peak	44.96	12.77	57.73	68.3	-10.57

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**802.11ac80 VHT mode**

Operation Mode : 802.11ac80 Test Date : 2016/1/16  
Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5150.00	E	Peak	42.41	11.14	53.55	74	-20.45
5150.00	E	Average	31.74	11.14	42.88	54	-11.12

Operation Mode : 802.11ac80 Test Date : 2016/1/16  
Fundamental Frequency : 5210 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5150.00	E	Peak	48.96	11.14	60.11	74	-13.89
5150.00	E	Average	32.86	11.14	44.00	54	-10.00

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Operation Mode : 802.11ac80 Test Date : 2016/1/19  
Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V	Level				
5350.00	E	Peak	43.54	11.30	54.84	74	-19.16	
5350.00	E	Average	32.18	11.30	43.48	54	-10.52	
5351.20	S	Peak	45.75	11.31	57.07	74	-16.93	
5351.20	S	Average	32.22	11.31	43.53	54	-10.47	

Operation Mode : 802.11ac80 Test Date : 2016/1/16  
Fundamental Frequency : 5290 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V	Level				
5350.00	E	Peak	44.56	11.30	55.86	74	-18.14	
5350.00	E	Average	32.54	11.30	43.84	54	-10.16	
5352.20	S	Peak	46.53	11.32	57.86	74	-16.14	
5352.20	S	Average	32.65	11.32	43.97	54	-10.03	

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Operation Mode : 802.11ac80 Test Date : 2016/1/16  
Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V	dB				
5445.50	S	Peak	49.09	11.38	60.47	74	-13.53	
5445.50	S	Average	33.55	11.38	44.93	54	-9.07	
5460.00	E	Peak	45.40	11.46	56.86	74	-17.14	
5460.00	E	Average	33.21	11.46	44.67	54	-9.33	

Operation Mode : 802.11ac80 Test Date : 2016/1/16  
Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V	dB				
5460.00	E	Peak	47.99	11.46	59.45	74	-14.55	
5460.00	E	Average	33.40	11.46	44.86	54	-9.14	

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Operation Mode : 802.11ac80 Test Date : 2016/1/16  
Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low RSE Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5445.50	S	Peak	49.09	11.38	60.47	68.3	-7.83
5470.00	E	Peak	46.51	11.46	57.97	68.3	-10.33

Operation Mode : 802.11ac80 Test Date : 2016/1/16  
Fundamental Frequency : 5530 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low RSE Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
5470.00	E	Peak	48.74	11.46	60.19	68.3	-8.11

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Operation Mode : 802.11ac80 Test Date : 2016/1/21  
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5696.50	S	Peak	52.39	12.28	64.68	68.3	-3.62
5724.00	S	Peak	51.71	12.27	63.99	78.2	-14.21
5725.00	E	Peak	53.68	12.27	65.95	78.2	-12.25

Operation Mode : 802.11ac80 Test Date : 2016/1/21  
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
5703.70	S	Peak	54.50	12.31	66.80	68.3	-1.50
5724.60	S	Peak	55.96	12.27	68.23	78.2	-9.97
5725.00	E	Peak	55.99	12.27	68.26	78.2	-9.94

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Operation Mode : 802.11ac80 Test Date : 2016/1/21  
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V				
5850.00	E	Peak	48.35	12.61	60.96	78.2	-17.24
5854.68	S	Peak	50.28	12.66	62.93	78.2	-15.27
5862.72	S	Peak	49.99	12.73	62.72	68.3	-5.58

Operation Mode : 802.11ac80 Test Date : 2016/1/21  
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : BE CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
			dB $\mu$ V				
5850.00	E	Peak	50.87	12.61	63.48	78.2	-14.72
5858.28	S	Peak	52.44	12.69	65.13	78.2	-13.07
5864.16	S	Peak	52.35	12.74	65.09	68.3	-3.21

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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

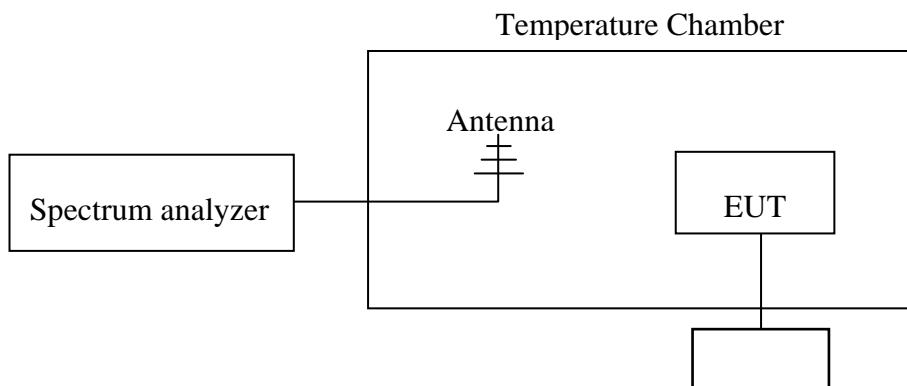
### 13.1 Standard Applicable

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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2015	06/22/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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### 13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2015.12.21
Temperature	:17	Test By	Tank
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.74V	36	5180	5,180.00691	-0.00000133
		44	5220	5,219.97078	0.00000560
		48	5240	5,239.97175	0.00000539
		52	5260	5,259.97160	0.00000540
		60	5300	5,299.97045	0.00000558
		64	5320	5,319.97173	0.00000531
		100	5500	5,499.96883	0.00000567
		116	5580	5,580.00819	-0.00000147
		140	5700	5,699.96933	0.00000538
		149	5745	5,744.96966	0.00000528
0	6.84V	157	5785	5,785.00744	-0.00000129
		165	5825	5,825.00854	-0.00000147
		36	5180	5,180.00746	-0.00000144
		44	5220	5,219.96947	0.00000585
		48	5240	5,239.97084	0.00000556
		52	5260	5,259.97146	0.00000543
		60	5300	5,299.97119	0.00000544
		64	5320	5,319.97003	0.00000563
		100	5500	5,499.97005	0.00000545
		116	5580	5,580.00785	-0.00000141
0	6.84V	140	5700	5,699.96774	0.00000566
		149	5745	5,744.96900	0.00000540
		157	5785	5,785.00792	-0.00000137
		165	5825	5,825.00907	-0.00000156

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25	7.6V	36	5180	5,180.00621	-0.00000120
		44	5220	5,219.96898	0.00000594
		48	5240	5,239.97061	0.00000561
		52	5260	5,259.96997	0.00000571
		60	5300	5,299.96984	0.00000569
		64	5320	5,319.96975	0.00000569
		100	5500	5,499.96875	0.00000568
		116	5580	5,580.00630	-0.00000113
		140	5700	5,699.96758	0.00000569
		149	5745	5,744.96767	0.00000563
		157	5785	5,785.00709	-0.00000123
		165	5825	5,825.00721	-0.00000124

40	8.74V	36	5180	5,180.00500	-0.00000097
		44	5220	5,219.96781	0.00000617
		48	5240	5,239.97020	0.00000569
		52	5260	5,259.96974	0.00000575
		60	5300	5,299.96929	0.00000579
		64	5320	5,319.96916	0.00000580
		100	5500	5,499.96792	0.00000583
		116	5580	5,580.00541	-0.00000097
		140	5700	5,699.96612	0.00000594
		149	5745	5,744.96668	0.00000580
		157	5785	5,785.00620	-0.00000107
		165	5825	5,825.00539	-0.00000093
		36	5180	5,180.00514	-0.00000099
		44	5220	5,219.96889	0.00000596
		48	5240	5,239.97004	0.00000572
		52	5260	5,259.96845	0.00000600
		60	5300	5,299.96948	0.00000576
		64	5320	5,319.96909	0.00000581
		100	5500	5,499.96803	0.00000581
		116	5580	5,580.00479	-0.00000086
		140	5700	5,699.96636	0.00000590
		149	5745	5,744.96600	0.00000592
		157	5785	5,785.00555	-0.00000096
		165	5825	5,825.00678	-0.00000116

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Operation Mode	802.11 n_HT40	Test Date	2015.12.21
Temperature	:17	Test By	Tank
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.74V	38	5190	5,189.97135	0.00000552
		46	5230	5,230.00859	-0.00000164
		54	5270	5,269.97110	0.00000548
		62	5310	5,309.97075	0.00000551
		102	5510	5,509.97108	0.00000525
		110	5550	5,550.00860	-0.00000155
		134	5670	5,670.00765	-0.00000135
		151	5755	5,754.96770	0.00000561
		159	5795	5,795.00719	-0.00000124
	6.84V	38	5190	5,189.97201	0.00000539
		46	5230	5,230.00815	-0.00000156
		54	5270	5,269.97209	0.00000530
		62	5310	5,309.97036	0.00000558
		102	5510	5,509.97104	0.00000526
		110	5550	5,550.00784	-0.00000141
		134	5670	5,670.00753	-0.00000133
		151	5755	5,754.96840	0.00000549
		159	5795	5,795.00757	-0.00000131

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25	7.6V	38	5190	5,189.97126	0.00000554
		46	5230	5,230.00673	-0.00000129
		54	5270	5,269.97053	0.00000559
		62	5310	5,309.97016	0.00000562
		102	5510	5,509.96909	0.00000561
		110	5550	5,550.00683	-0.00000123
		134	5670	5,670.00683	-0.00000120
		151	5755	5,754.96748	0.00000565
		159	5795	5,795.00684	-0.00000118
		38	5190	5,189.97021	0.00000574
40	8.74V	46	5230	5,230.00565	-0.00000108
		54	5270	5,269.96874	0.00000593
		62	5310	5,309.96848	0.00000594
		102	5510	5,509.96773	0.00000586
		110	5550	5,550.00528	-0.00000095
		134	5670	5,670.00555	-0.00000098
		151	5755	5,754.96683	0.00000576
		159	5795	5,795.00597	-0.00000103
		38	5190	5,189.97003	0.00000577
		46	5230	5,230.00477	-0.00000091
40	6.84V	54	5270	5,269.96988	0.00000572
		62	5310	5,309.96870	0.00000589
		102	5510	5,509.96737	0.00000592
		110	5550	5,550.00570	-0.00000103
		134	5670	5,670.00570	-0.00000101
		151	5755	5,754.96593	0.00000592
		159	5795	5,795.00648	-0.00000112

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Operation Mode	802.11 ac_VHT80	Test Date	2015.12.21
Temperature	:17	Test By	Tank
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	8.74V	42	5210	5,209.97093	0.00000558
		58	5290	5,289.96999	0.00000567
		106	5530	5,529.97080	0.00000528
		122	5610	5,609.97901	0.00000374
		138	5690	5,689.97382	0.00000460
		155	5775	5,775.00748	-0.00000130
	6.84	42	5210	5,209.97115	0.00000554
		58	5290	5,289.97126	0.00000543
		106	5530	5,529.96964	0.00000549
		122	5610	5,609.97847	0.00000384
		138	5690	5,689.97335	0.00000468
		155	5775	5,775.00788	-0.00000136
25	7.6V	42	5210	5,209.97065	0.00000563
		58	5290	5,289.96998	0.00000567
		106	5530	5,529.96882	0.00000564
		122	5610	5,609.97751	0.00000401
		138	5690	5,689.97203	0.00000492
		155	5775	5,775.00720	-0.00000125
40	8.74V	42	5210	5,209.96867	0.00000601
		58	5290	5,289.96861	0.00000593
		106	5530	5,529.96754	0.00000587
		122	5610	5,609.97670	0.00000415
		138	5690	5,689.97177	0.00000496
		155	5775	5,775.00586	-0.00000101
	6.84V	42	5210	5,209.97033	0.00000569
		58	5290	5,289.96874	0.00000591
		106	5530	5,529.96718	0.00000593
		122	5610	5,609.97713	0.00000408
		138	5690	5,689.97127	0.00000505
		155	5775	5,775.00706	-0.00000122

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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

A PIFA antenna design is 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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