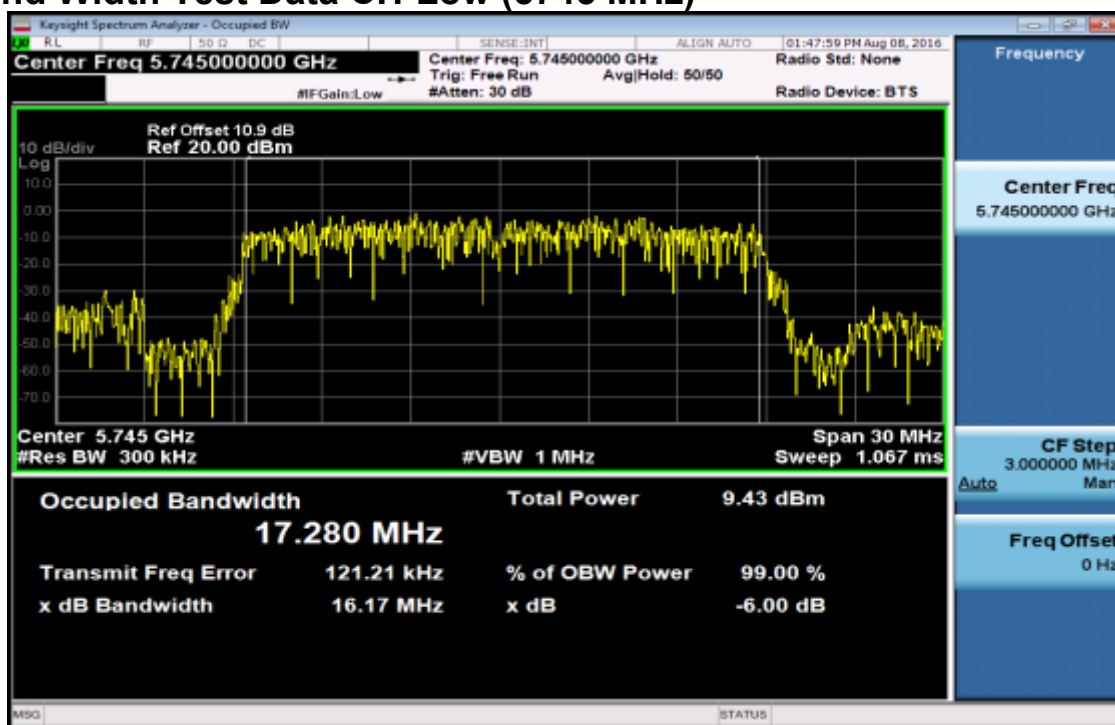
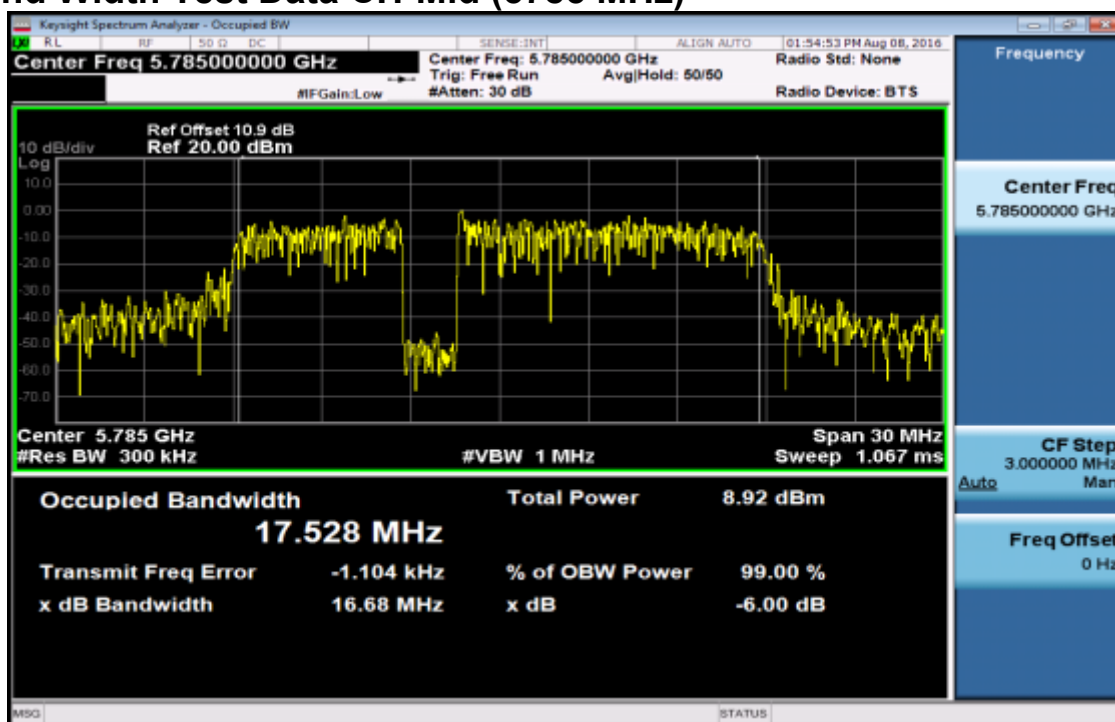


802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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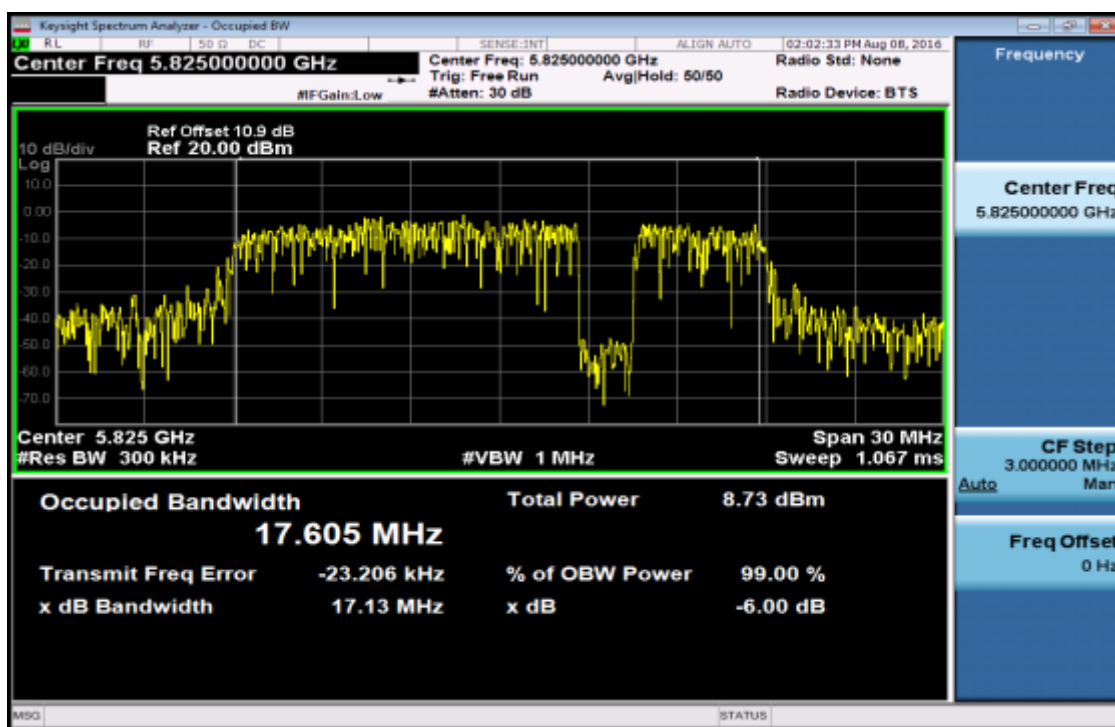
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6dB Band Width Test Data CH-High (5825 MHz)



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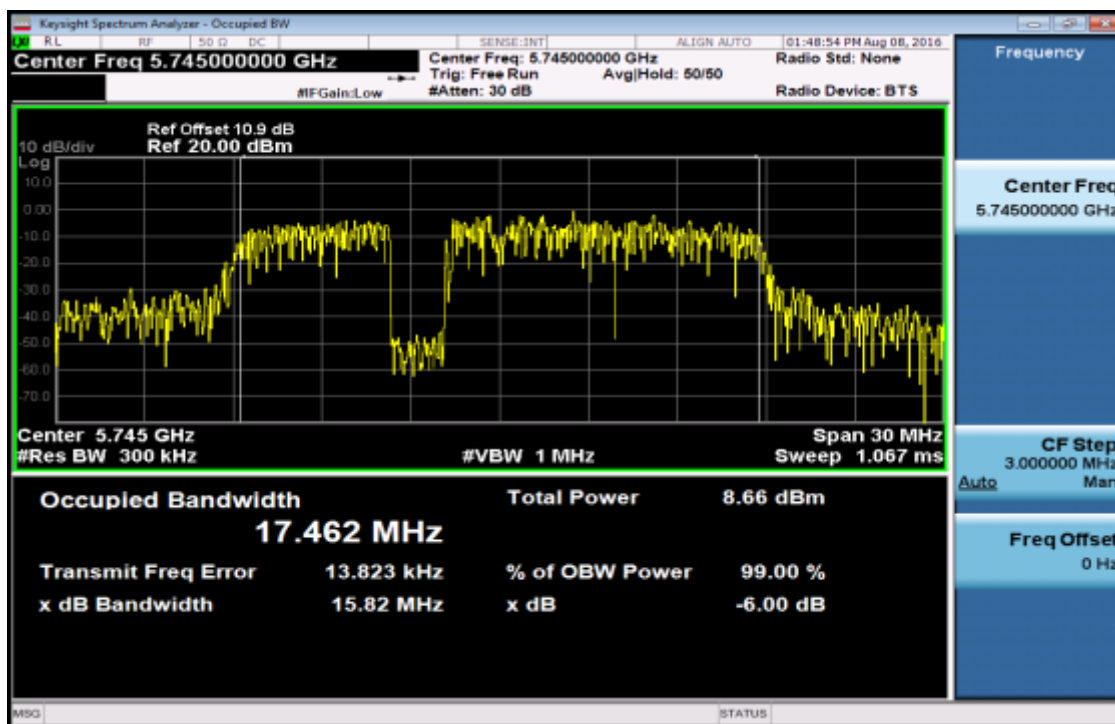
t (886-2) 2299-3279

f (886-2) 2298-0488

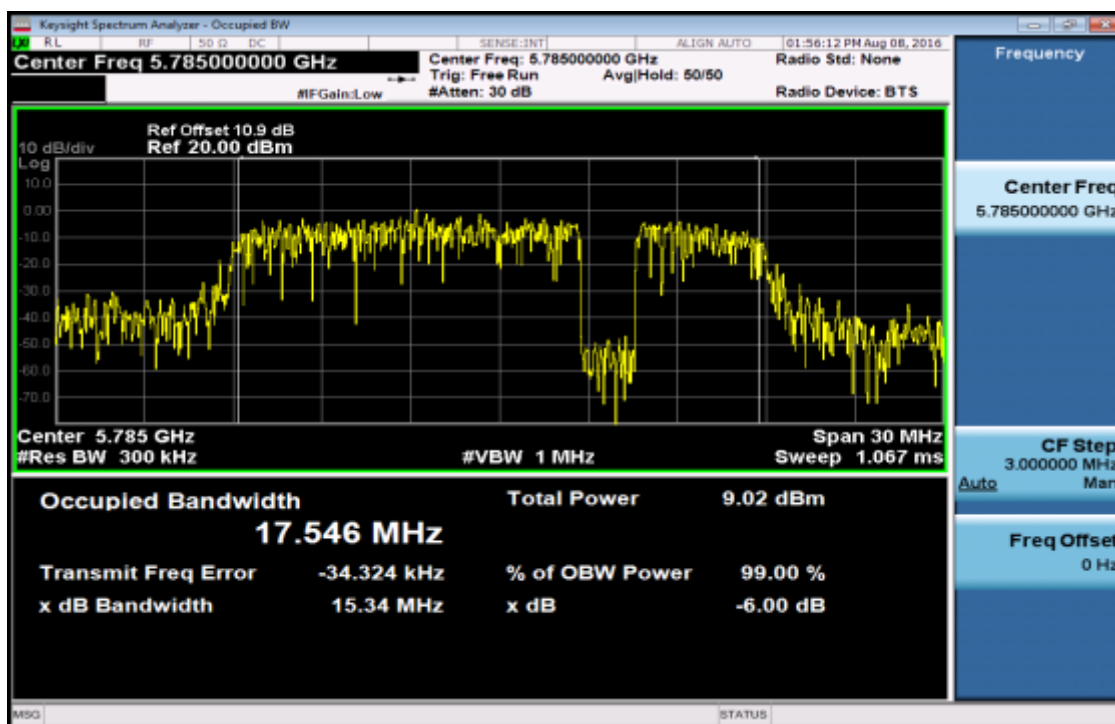
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802.11n_HT20, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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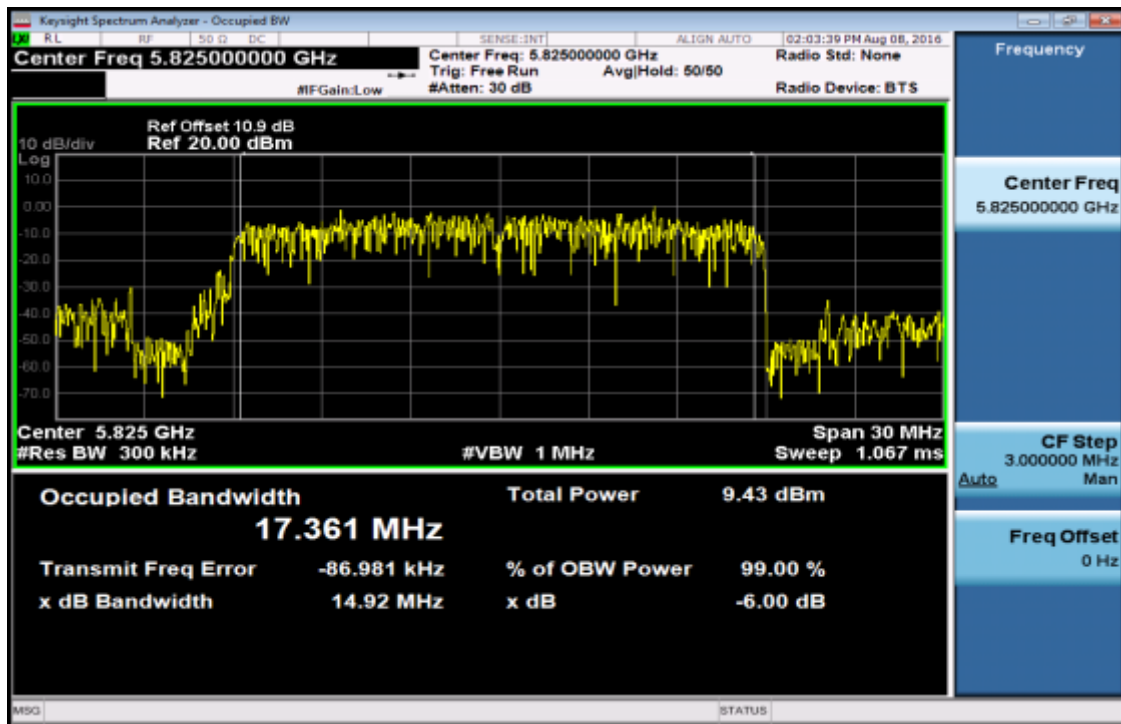
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6dB Band Width Test Data CH-High (5825 MHz)



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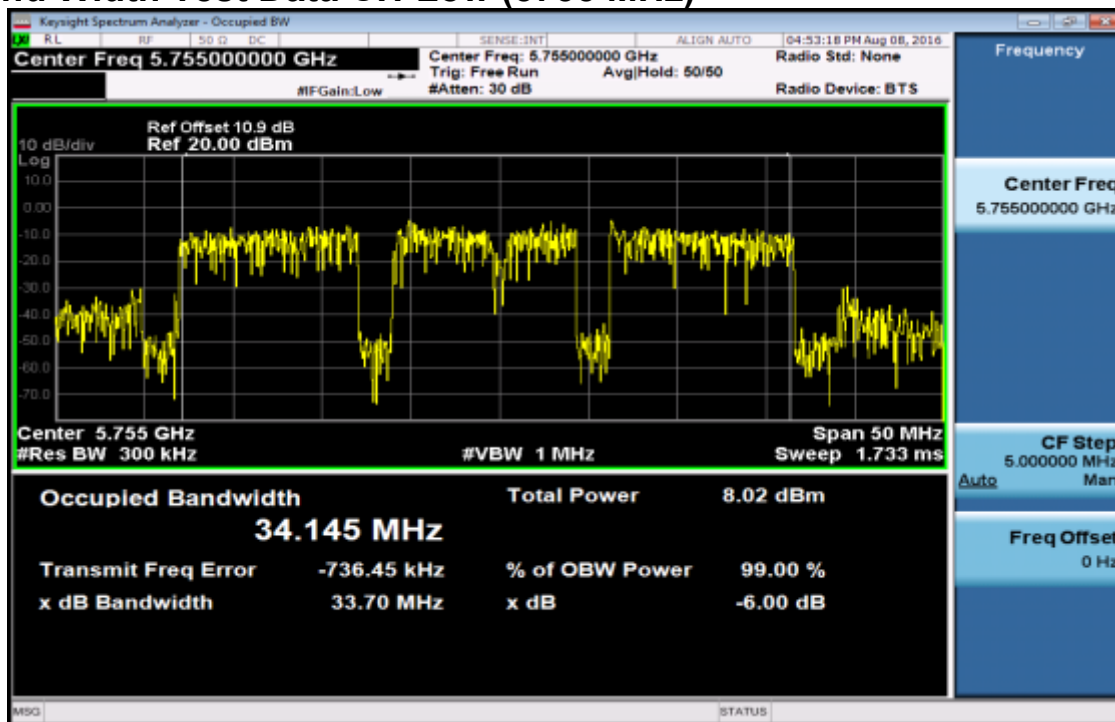
t (886-2) 2299-3279

f (886-2) 2298-0488

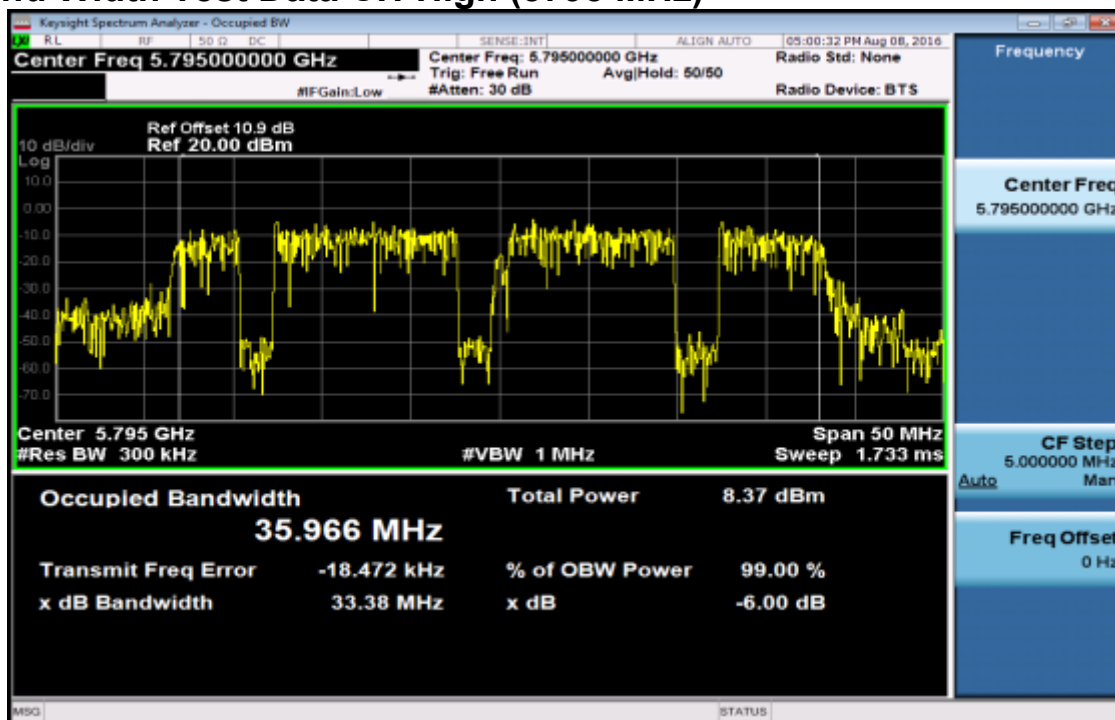
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-High (5795 MHz)



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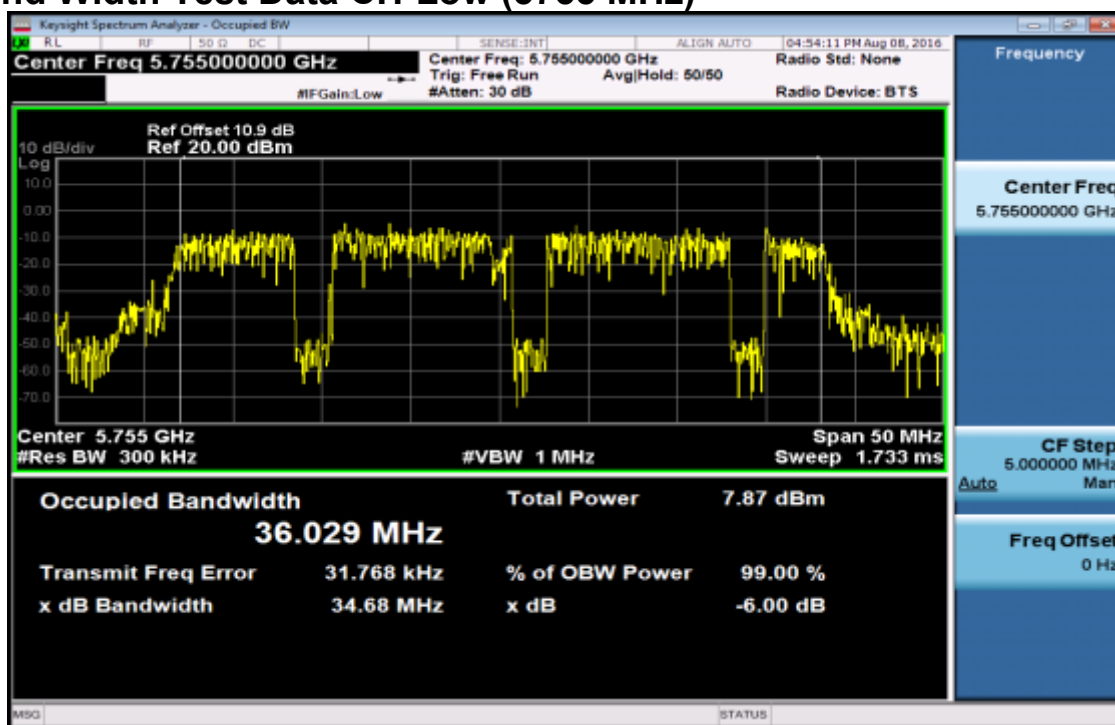
t (886-2) 2299-3279

f (886-2) 2298-0488

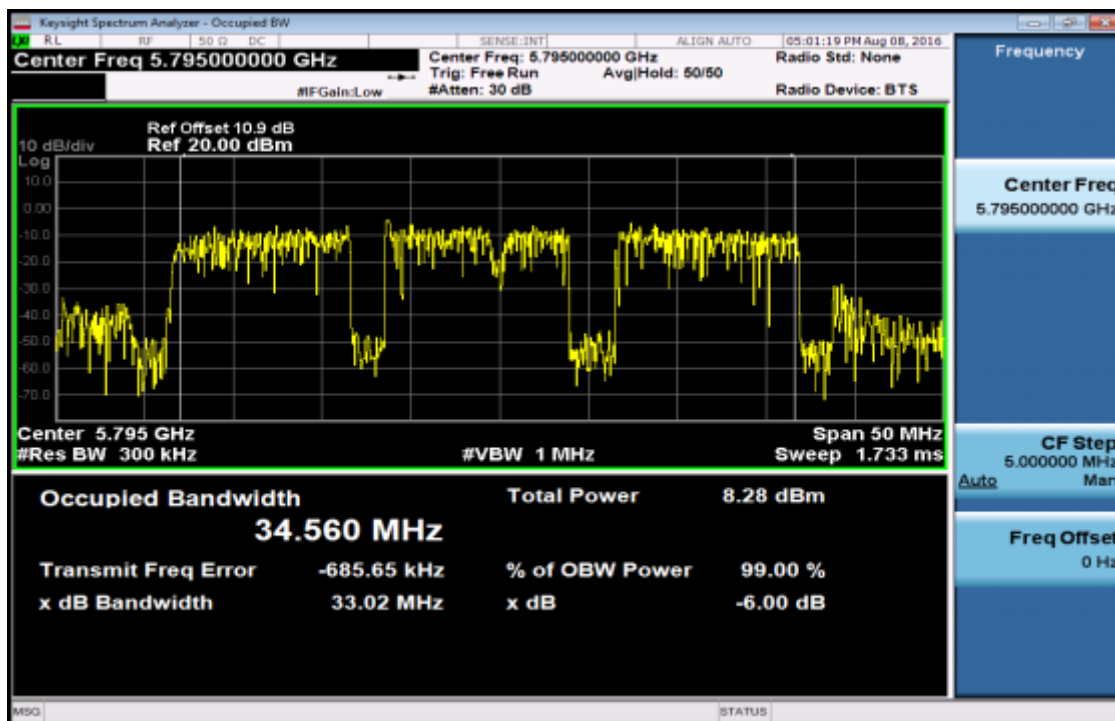
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802.11n_HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



6dB Band Width Test Data CH-High (5795 MHz)



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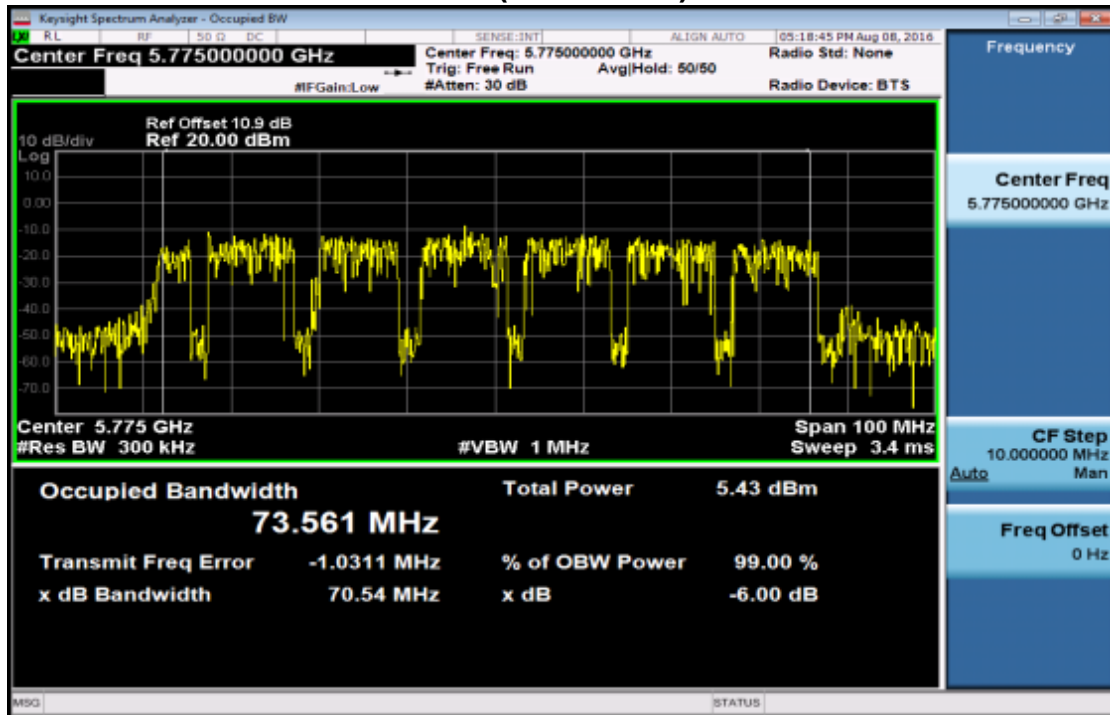
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f (886-2) 2298-0488

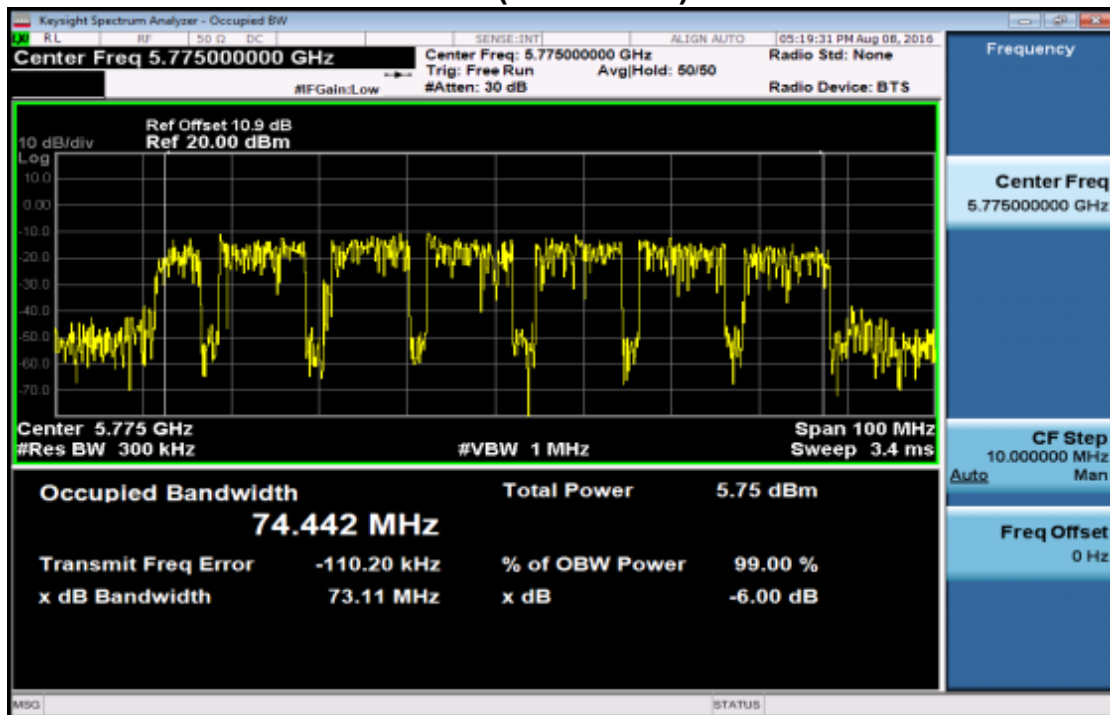
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5775 MHz)



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERATION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	√	Clinet device	250mW(23.98dBm)
U-NII-2A	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	√		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	√		1 Watt(30dBm)

IC

OPERATION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

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

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The antenna gain is greater than 6 dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

FCC

	Effective Legacy Gain (dBi)	Limit
UNII-1	$5.35+3.01=8.36\text{dBi}$	$23.98\text{dBm} - (8.36 - 6 \text{ dBi}) = 21.62\text{dBm}$
UNII-2A	$5.35+3.01=8.36\text{dBi}$	$23.98\text{dBm} - (8.36 - 6 \text{ dBi}) = 21.62\text{dBm}$
U-NII-2C	$4.05+3.01=7.06\text{dBi}$	$23.98\text{dBm} - (7.06 - 6 \text{ dBi}) = 22.92\text{dBm}$
U-NII-3	$4.57+3.01=7.58\text{dBi}$	$30 \text{ dBm} - (7.58 - 6 \text{ dBi}) = 28.42\text{dBm}$

IC

	Effective Legacy Gain (dBi)	Limit
UNII-2A	$5.35+3.01=8.36\text{dBi}$	$23.98\text{dBm} - (8.36 - 6 \text{ dBi}) = 21.62\text{dBm}$
U-NII-2C	$4.05+3.01=7.06\text{dBi}$	$23.98\text{dBm} - (7.06 - 6 \text{ dBi}) = 22.92\text{dBm}$
U-NII-3	$4.57+3.01=7.58\text{dBi}$	$30 \text{ dBm} - (7.58 - 6 \text{ dBi}) = 28.42\text{dBm}$

Therefore the limit needs to reduce for the UNII-1, U-NII-2A, U-NII-2C and U-NII-3 band.

9.2 Measurement Procedure

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

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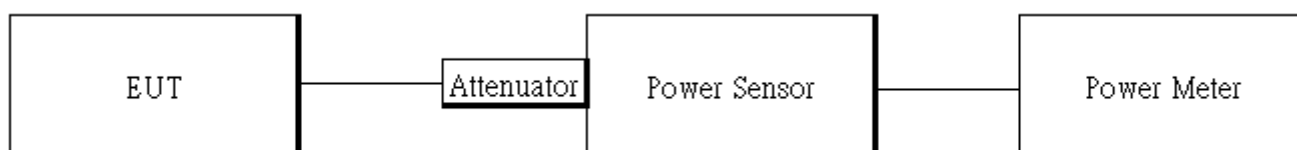
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9.3 Measurement Equipment Used

Refer to section 8.3 for details.

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

9.4 Test Set-up



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9.5 Measurement Result

FCC

802.11a_Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.98	25.003	23.98	PASS
44	5220	MCS0	13.96	24.889	23.98	PASS
48	5240	MCS0	13.92	24.660	23.98	PASS
52	5260	MCS0	13.76	23.768	23.98 or $11+10\log(B) = 24.54$	PASS
60	5300	MCS0	13.78	23.878	23.98 or $11+10\log(B) = 23.92$	PASS
64	5320	MCS0	13.70	23.442	23.98 or $11+10\log(B) = 24.01$	PASS
100	5500	MCS0	11.49	14.093	23.98 or $11+10\log(B) = 23.84$	PASS
116	5580	MCS0	13.71	23.496	23.98 or $11+10\log(B) = 23.89$	PASS
140	5700	MCS0	12.33	17.100	23.98 or $11+10\log(B) = 23.79$	PASS
149	5745	MCS0	13.94	24.774	30	PASS
157	5785	MCS0	13.98	25.003	30	PASS
165	5825	MCS0	13.86	24.322	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	9.72	9.65	12.70	18.601	21.62	PASS
44	5220	MCS8	9.69	9.62	12.67	18.473	21.62	PASS
48	5240	MCS8	9.98	9.91	12.96	19.749	21.62	PASS
52	5260	MCS8	9.99	9.89	12.95	19.727	21.62 or $11+10\log(B) = 23.94$	PASS
60	5300	MCS8	10.04	9.88	12.97	19.820	21.62 or $11+10\log(B) = 23.93$	PASS
64	5320	MCS8	9.98	9.77	12.89	19.438	21.62 or $11+10\log(B) = 23.95$	PASS
100	5500	MCS8	9.94	9.65	12.81	19.089	22.92 or $11+10\log(B) = 23.99$	PASS
116	5580	MCS8	10.28	9.61	12.97	19.807	22.92 or $11+10\log(B) = 23.95$	PASS
140	5700	MCS8	10.27	9.34	12.84	19.232	22.92 or $11+10\log(B) = 23.95$	PASS
149	5745	MCS8	10.23	9.27	12.79	18.997	28.42	PASS
157	5785	MCS8	10.22	9.21	12.75	18.856	28.42	PASS
165	5825	MCS8	10.14	9.23	12.72	18.703	28.42	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	8.61	8.59	11.61	14.489	21.62	PASS
46	5230	MCS8	8.66	8.58	11.63	14.556	21.62	PASS
54	5270	MCS8	8.61	8.53	11.58	14.390	21.62 or 11+10log(B) = 27.02	PASS
62	5310	MCS8	8.93	8.88	11.92	15.543	21.62 or 11+10log(B) = 27.17	PASS
102	5510	MCS8	9.17	8.66	11.93	15.606	22.92 or 11+10log(B) = 27.16	PASS
110	5550	MCS8	9.32	8.59	11.98	15.778	22.92 or 11+10log(B) = 27.03	PASS
134	5670	MCS8	9.22	8.38	11.83	15.243	22.92 or 11+10log(B) = 27.20	PASS
151	5755	MCS8	9.19	8.36	11.81	15.153	28.42	PASS
159	5795	MCS8	9.08	8.33	11.73	14.899	28.42	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	9.68	9.61	12.66	18.431	21.62	PASS
44	5220	MCS8	9.66	9.61	12.65	18.388	21.62	PASS
48	5240	MCS8	9.89	9.81	12.86	19.322	21.62	PASS
52	5260	MCS8	9.91	9.85	12.89	19.455	21.62 or 11+10log(B) = 23.94	PASS
60	5300	MCS8	9.99	9.85	12.93	19.638	21.62 or 11+10log(B) = 23.93	PASS
64	5320	MCS8	9.91	9.71	12.82	19.149	21.62 or 11+10log(B) = 23.95	PASS
100	5500	MCS8	9.87	9.51	12.70	18.638	22.92 or 11+10log(B) = 23.99	PASS
116	5580	MCS8	10.13	9.57	12.87	19.361	22.92 or 11+10log(B) = 23.95	PASS
140	5700	MCS8	10.18	9.29	12.77	18.915	22.92 or 11+10log(B) = 23.95	PASS
149	5745	MCS8	10.16	9.21	12.72	18.712	28.42	PASS
157	5785	MCS8	10.13	9.17	12.69	18.564	28.42	PASS
165	5825	MCS8	10.09	9.17	12.66	18.470	28.42	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	8.59	8.55	11.58	14.389	21.62	PASS
46	5230	MCS8	8.63	8.57	11.61	14.489	21.62	PASS
54	5270	MCS8	8.59	8.51	11.56	14.323	21.62 or 11+10log(B) = 27.02	PASS
62	5310	MCS8	8.91	8.84	11.89	15.436	21.62 or 11+10log(B) = 27.17	PASS
102	5510	MCS8	9.13	8.61	11.89	15.446	22.92 or 11+10log(B) = 27.16	PASS
110	5550	MCS8	9.28	8.51	11.92	15.568	22.92 or 11+10log(B) = 27.03	PASS
134	5670	MCS8	9.12	8.3	11.74	14.927	22.92 or 11+10log(B) = 27.20	PASS
151	5755	MCS8	9.14	8.29	11.75	14.949	28.42	PASS
159	5795	MCS8	9.01	8.29	11.68	14.707	28.42	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS8	5.94	5.63	8.80	7.582	21.62	PASS
58	5290	MCS8	5.94	5.63	8.80	7.582	21.62 or 11+10log(B) = 30.08	PASS
106	5530	MCS8	6.02	5.3	8.69	7.388	22.92 or 11+10log(B) = 30.07	PASS
122	5610	MCS8	6.41	5.28	8.89	7.748	22.92 or 11+10log(B) = 30.12	PASS
155	5775	MCS8	6.21	5.28	8.78	7.551	28.42	PASS

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EIRP

802.11a

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.98	25.003	5.35	19.33	23.01 or $10+10\log(B) = 22.16$	PASS
44	5220	13.96	24.889		19.31	23.01 or $10+10\log(B) = 22.15$	PASS
48	5240	13.92	24.660		19.27	23.01 or $10+10\log(B) = 22.14$	PASS
52	5260	13.76	23.768	5.35	19.11	30 or $17+10\log(B) = 29.15$	PASS
60	5300	13.78	23.878		19.13	30 or $17+10\log(B) = 29.14$	PASS
64	5320	13.70	23.442		19.05	30 or $17+10\log(B) = 29.14$	PASS
100	5500	11.49	14.093	4.05	15.54	30 or $17+10\log(B) = 29.12$	PASS
116	5580	13.71	23.496		17.76	30 or $17+10\log(B) = 29.13$	PASS
140	5700	12.33	17.100		16.38	30 or $17+10\log(B) = 29.12$	PASS
149	5745	13.94	24.774	4.57	18.51	30	PASS
157	5785	13.98	25.003		18.55	30	PASS
165	5825	13.86	24.322		18.43	30	PASS

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802.11n_HT20 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.70	18.601	8.36	21.06	23.01 or 10+10log(B) =22.16	PASS
44	5220	12.67	18.473		21.03	23.01 or 10+10log(B) =22.41	PASS
48	5240	12.96	19.749		21.32	23.01 or 10+10log(B) =22.41	PASS
52	5260	12.95	19.727	8.36	21.31	21.62 or 17+10log(B) =29.41	PASS
60	5300	12.97	19.820		21.33	21.62 or 17+10log(B) =29.42	PASS
64	5320	12.89	19.438		21.25	21.62 or 17+10log(B) =29.41	PASS
100	5500	12.81	19.089	7.06	19.87	22.92 or 17+10log(B) =29.41	PASS
116	5580	12.97	19.807		20.03	22.92 or 17+10log(B) =29.40	PASS
140	5700	12.84	19.232		19.90	22.92 or 17+10log(B) =29.40	PASS
149	5745	12.79	18.997	7.58	20.37	28.42	PASS
157	5785	12.75	18.856		20.33	28.42	PASS
165	5825	12.72	18.703		20.30	28.42	PASS

802.11ac_VHT20 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.66	18.431	8.36	21.02	23.01 or 10+10log(B) =22.16	PASS
44	5220	12.65	18.388		21.01	23.01 or 10+10log(B) =22.41	PASS
48	5240	12.86	19.322		21.22	23.01 or 10+10log(B) =22.41	PASS
52	5260	12.89	19.455	8.36	21.25	21.62 or 17+10log(B) =29.41	PASS
60	5300	12.93	19.638		21.29	21.62 or 17+10log(B) =29.42	PASS
64	5320	12.82	19.149		21.18	21.62 or 17+10log(B) =29.41	PASS
100	5500	12.70	18.638	7.06	19.76	22.92 or 17+10log(B) =29.41	PASS
116	5580	12.87	19.361		19.93	22.92 or 17+10log(B) =29.40	PASS
140	5700	12.77	18.915		19.83	22.92 or 17+10log(B) =29.40	PASS
149	5745	12.72	18.712	7.58	20.30	28.42	PASS
157	5785	12.69	18.564		20.27	28.42	PASS
165	5825	12.66	18.470		20.24	28.42	PASS

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802.11n_HT40 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.61	14.489	8.36	19.97	23.01 or 10+10log(B) =25.55	PASS
46	5230	11.63	14.556		19.99	23.01 or 10+10log(B) =25.54	PASS
54	5270	11.58	14.390	8.36	19.94	21.62 or 17+10log(B) =32.55	PASS
62	5310	11.92	15.543		20.28	21.62 or 17+10log(B) =32.55	PASS
102	5510	11.93	15.606	7.06	18.99	22.92 or 17+10log(B) =32.48	PASS
110	5550	11.98	15.776		19.04	22.92 or 17+10log(B) =32.52	PASS
134	5670	11.83	15.243		18.89	22.92 or 17+10log(B) =32.52	PASS
151	5755	11.81	15.153	7.58	19.39	28.42	PASS
159	5795	11.73	14.899		19.31	28.42	PASS

802.11ac_VHT40 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.58	14.389	8.36	19.94	23.01 or 10+10log(B) =25.55	PASS
46	5230	11.61	14.489		19.97	23.01 or 10+10log(B) =25.54	PASS
54	5270	11.56	14.323	8.36	19.92	21.62 or 17+10log(B) =32.55	PASS
62	5310	11.89	15.436		20.25	21.62 or 17+10log(B) =32.55	PASS
102	5510	11.89	15.446	7.06	18.95	22.92 or 17+10log(B) =32.48	PASS
110	5550	11.92	15.568		18.98	22.92 or 17+10log(B) =32.52	PASS
134	5670	11.74	14.927		18.80	22.92 or 17+10log(B) =32.52	PASS
151	5755	11.75	14.949	7.58	19.33	28.42	PASS
159	5795	11.68	14.707		19.26	28.42	PASS

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802.11ac_VHT80

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
42	5210	8.80	7.586	8.36	17.16	23.01 or $10+10\log(B) = 28.75$	PASS
58	5290	8.80	7.586	8.36	17.16	21.62 or $17+10\log(B) = 35.75$	PASS
106	5530	8.69	7.396	7.06	15.75	22.92 or $17+10\log(B) = 35.75$	PASS
155	5775	8.78	7.551	7.58	16.36	28.42	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

IC

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

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

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The antenna gain is greater than 6 dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

FCC

	Effective Legacy Gain (dBi)	Limit
UNII-1	5.35+3.01=8.36dBi	11dBm – (8.36– 6 dBi) = 8.64dBm
UNII-2A	5.35+3.01=8.36dBi	11dBm – (8.36– 6 dBi) = 8.64dBm
U-NII-2C	4.05+3.01=7.06dBi	11dBm – (7.06– 6 dBi) = 9.94dBm
U-NII-3	4.57+3.01=7.58dBi	30dBm – (7.58– 6 dBi) = 28.42dBm

IC

	Effective Legacy Gain (dBi)	Limit
UNII-2A	5.35+3.01=8.36dBi	11dBm – (8.36– 6 dBi) = 8.64dBm
U-NII-2C	4.05+3.01=7.06dBi	11dBm – (7.06– 6 dBi) = 9.94dBm
U-NII-3	4.57+3.01=7.58dBi	30dBm – (7.58– 6 dBi) = 28.42dBm

Therefore the limit needs to reduce for the UNII-1, U-NII-2A, U-NII-2C and U-NII-3 band.

10.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- Use the cursor on spectrum to peak search the highest level of trace
- Record the max. reading and add 10 log(1/duty cycle).
- Repeat above procedures until all default test channel (low, middle, and high) was complete.

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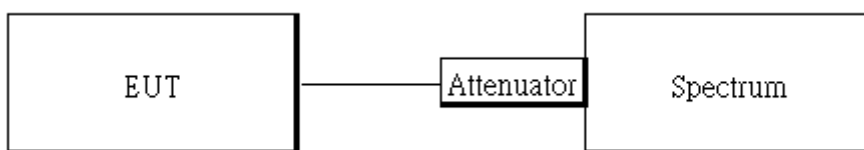
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Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher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

10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

10.4 Test Set-up



10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.26	11	-9.74
5220	-0.70	11	-11.70
5240	0.38	11	-10.62
5260	-0.53	11	-11.53
5300	-0.34	11	-11.34
5320	-0.51	11	-11.51
5500	0.08	11	-10.92
5580	0.10	11	-10.90
5700	-0.71	11	-11.71
5745	7.58	30	-22.42
5785	6.80	30	-23.20
5825	7.13	30	-22.87

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POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-2.72	8.64	-11.36
5220	-1.47	8.64	-10.11
5240	-2.28	8.64	-10.92
5260	-3.10	8.64	-11.74
5300	-3.19	8.64	-11.83
5320	-1.72	8.64	-10.36
5500	-2.88	9.94	-12.82
5580	-2.78	9.94	-12.72
5700	-2.77	9.94	-12.71
5745	6.29	28.42	-22.13
5785	6.54	28.42	-21.88
5825	6.09	28.42	-22.33

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-9.75	8.64	-18.39
5230	-9.24	8.64	-17.88
5270	-9.2	8.64	-17.84
5310	-9.44	8.64	-18.08
5510	-8.25	9.94	-18.19
5550	-8.57	9.94	-18.51
5670	-5.07	9.94	-15.01
5755	2.75	28.42	-25.67
5795	2.02	28.42	-26.40

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-13.78	8.64	-22.42
5290	-11.78	8.64	-20.42
5530	-14.43	9.94	-24.37
5610	-12.58	9.94	-22.52
5775	-3.20	28.42	-31.62

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For IC Band 1

802.11 a

Frequency (MHz)	PPSD (dBm / MHz)	Antenna Gain (dBi)	EIRP spectral density (dBm / MHz)	Limit (dBm / MHz)	Margin (dB)
5180	1.26	5.35	6.61	10.00	-3.39
5220	-0.70	5.35	4.65	10.00	-5.35
5240	0.38	5.35	5.73	10.00	-4.27

802.11 n_HT20

Frequency (MHz)	PPSD (dBm / MHz)	Antenna Gain (dBi)	EIRP spectral density (dBm / MHz)	Limit (dBm / MHz)	Margin (dB)
5180	-2.72	8.39	5.67	10.00	-4.33
5220	-1.47	8.39	6.92	10.00	-3.08
5240	-2.28	8.39	6.11	10.00	-3.89

802.11 n_HT40

Frequency (MHz)	PPSD (dBm / MHz)	Antenna Gain (dBi)	EIRP spectral density (dBm / MHz)	Limit (dBm / MHz)	Margin (dB)
5190	-9.75	8.39	-1.36	10.00	-11.36
5230	-9.24	8.39	-0.85	10.00	-10.85

802.11 n_VHT80

Frequency (MHz)	PPSD (dBm / MHz)	Antenna Gain (dBi)	EIRP spectral density (dBm / MHz)	Limit (dBm / MHz)	Margin (dB)
5210	-13.78	8.39	-5.39	10.00	-15.39

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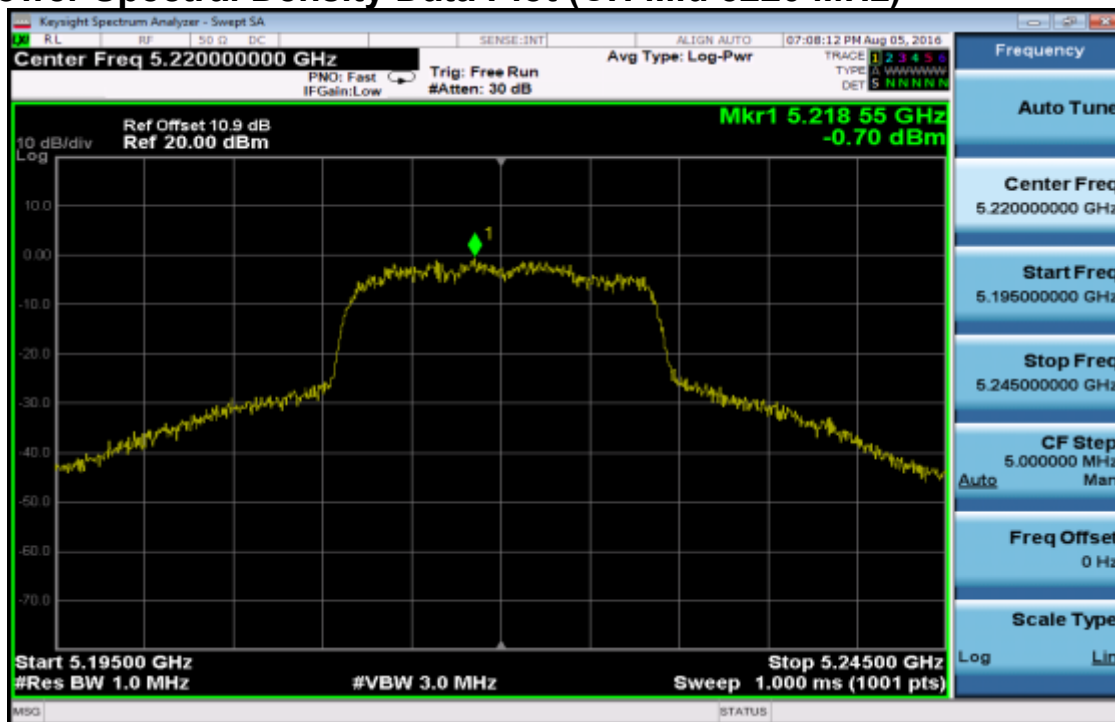
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802.11a 5150~5250 MHz

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



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



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



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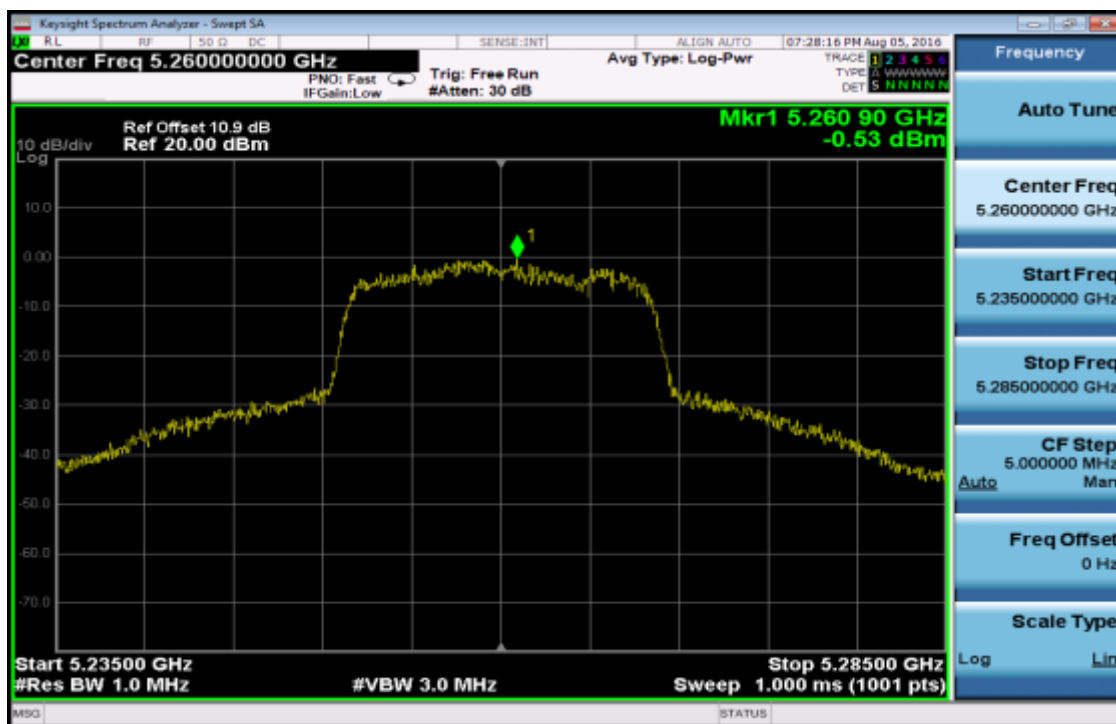
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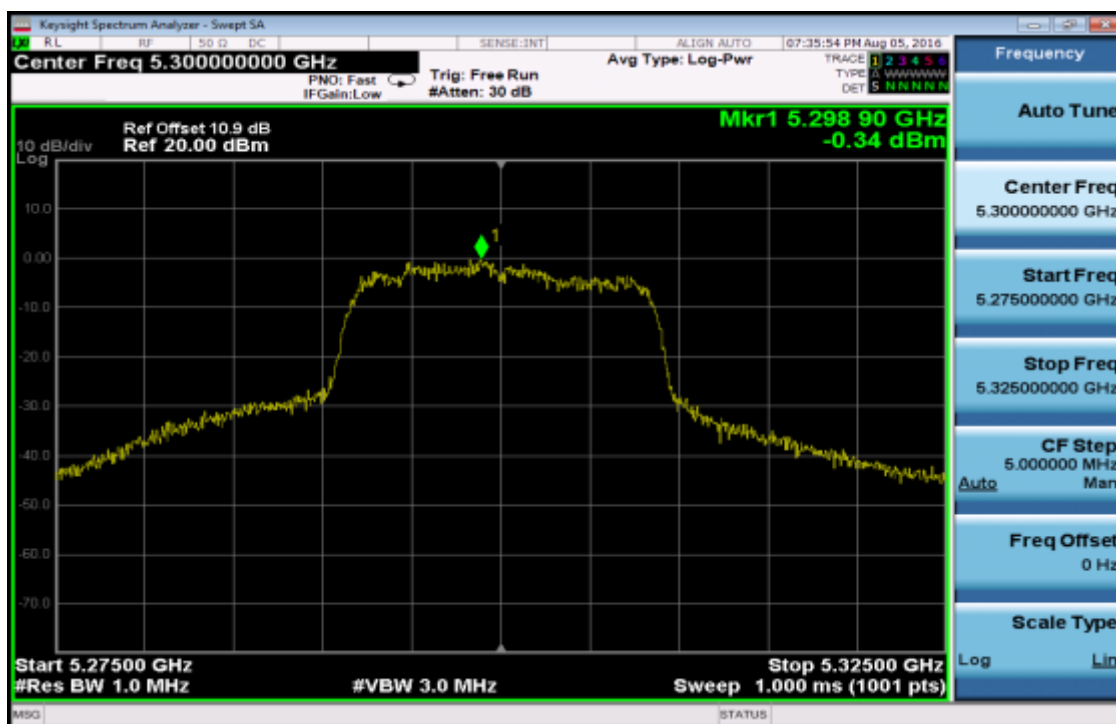
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802.11a 5250~5350 MHz

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



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



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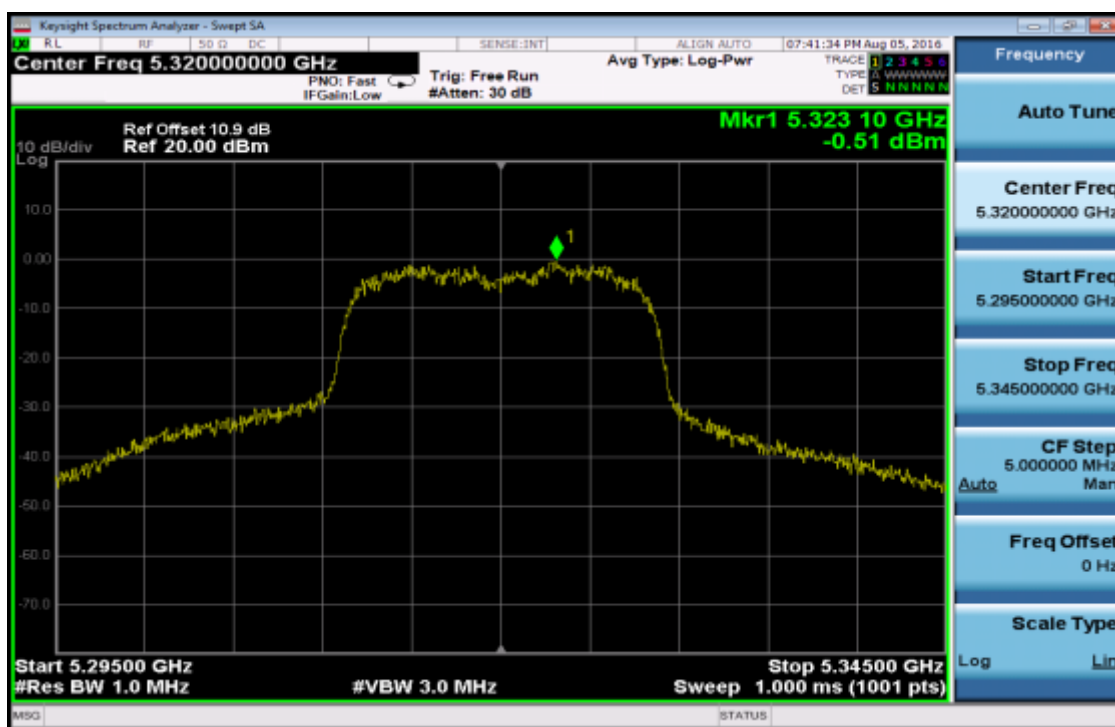
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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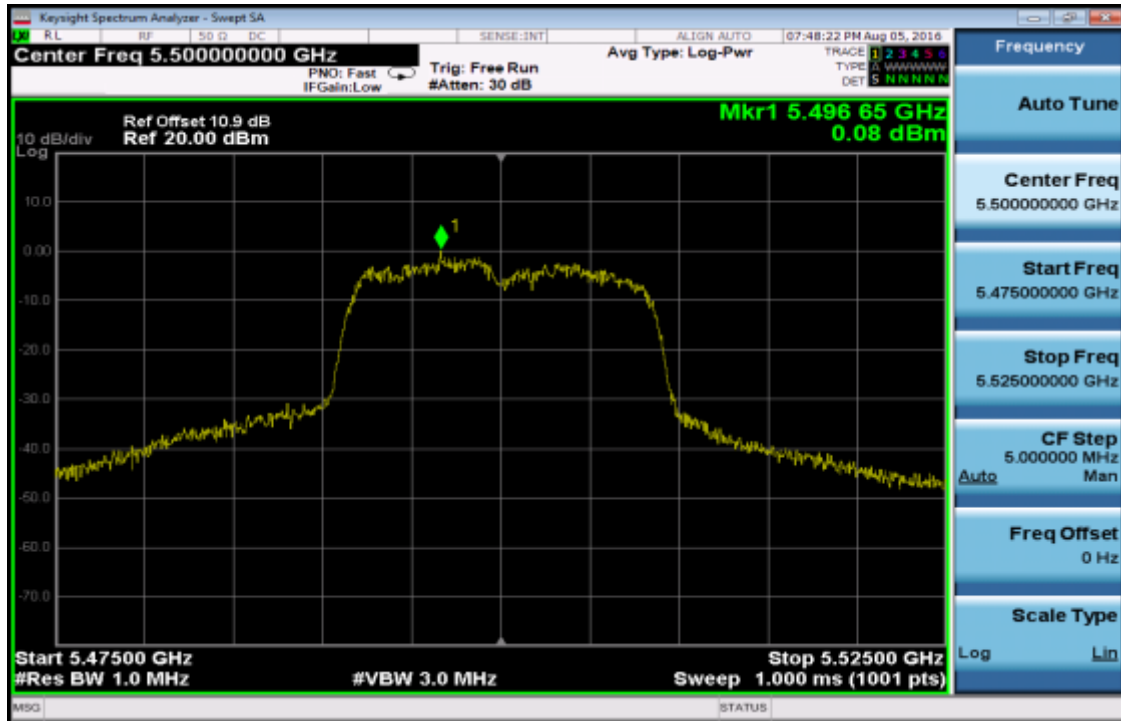
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802.11a 5470~5725 MHz

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



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



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



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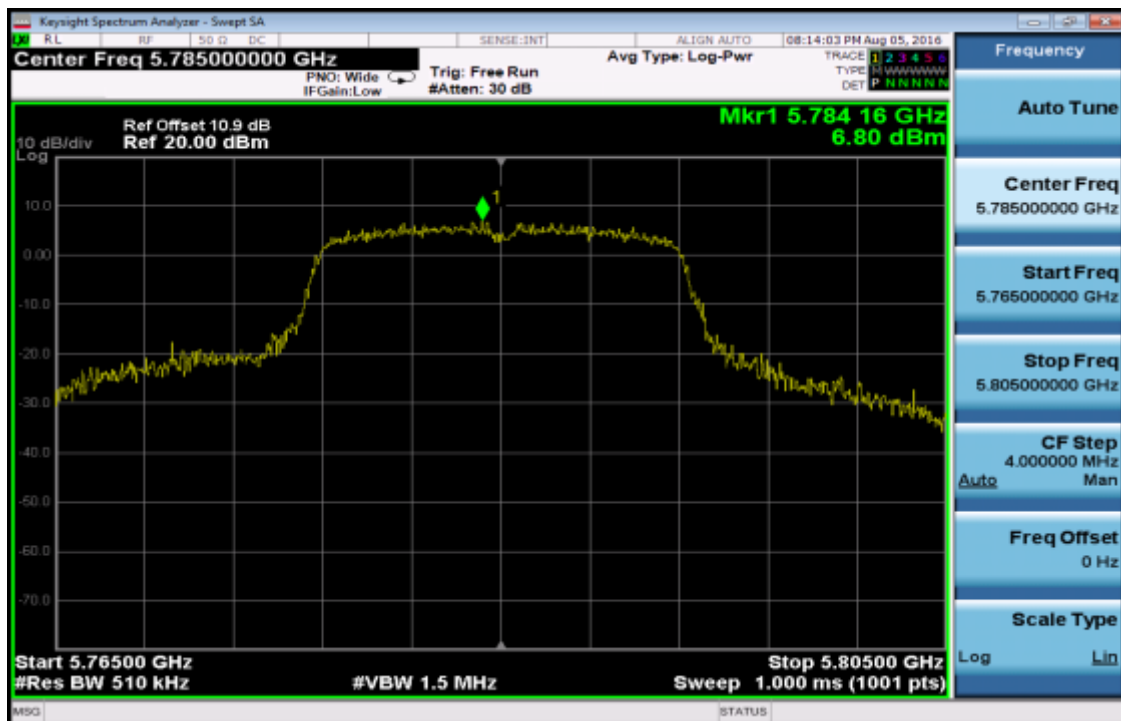
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802.11a 5725~5850 MHz

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



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



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



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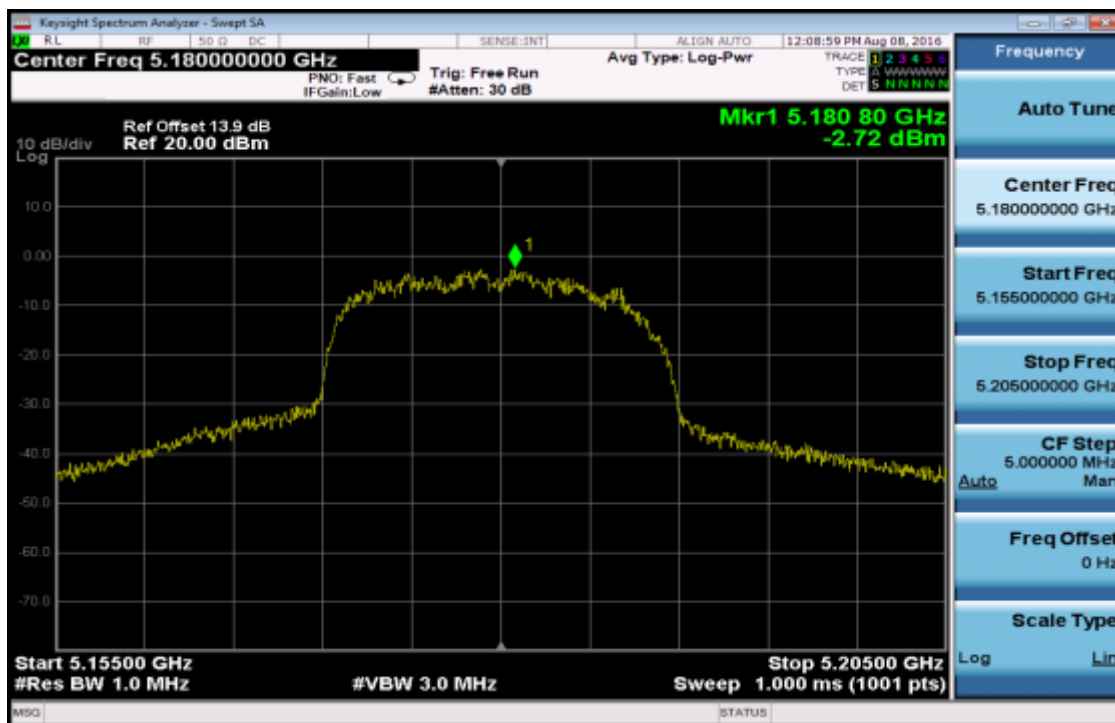
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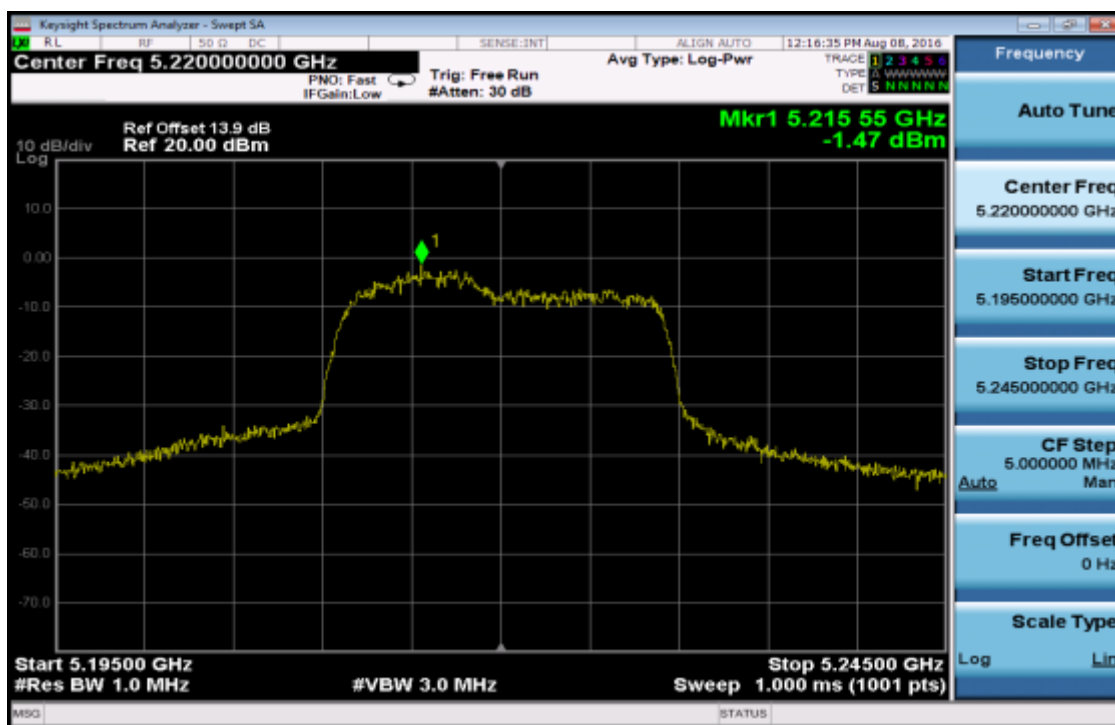
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802.11n HT20, 5150~5250 MHz

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



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



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



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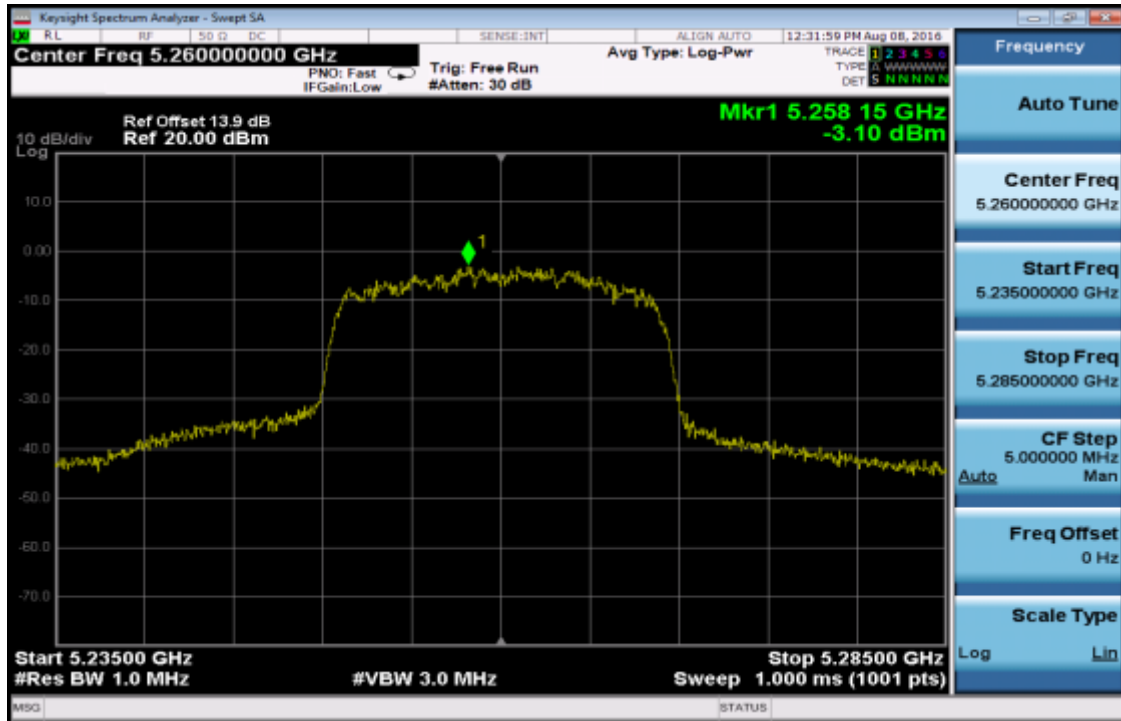
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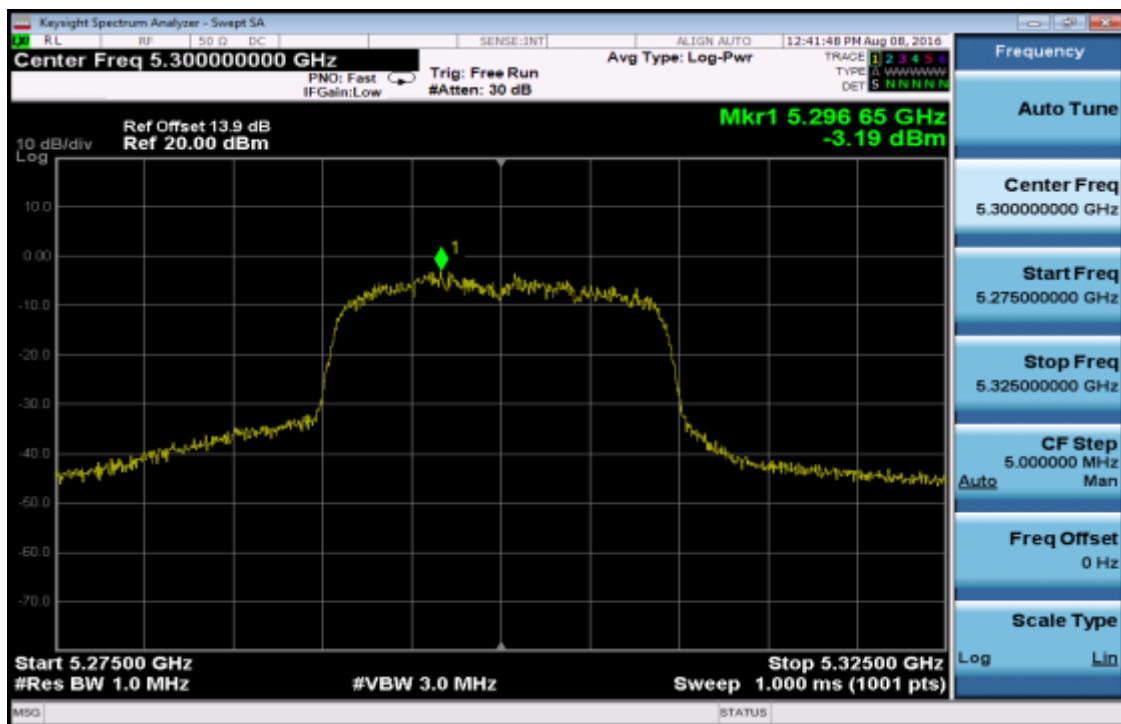
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802.11n HT20, 5250~5350 MHz Peak Power Spectral Density Data Plot (CH Low 5260MHz)



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



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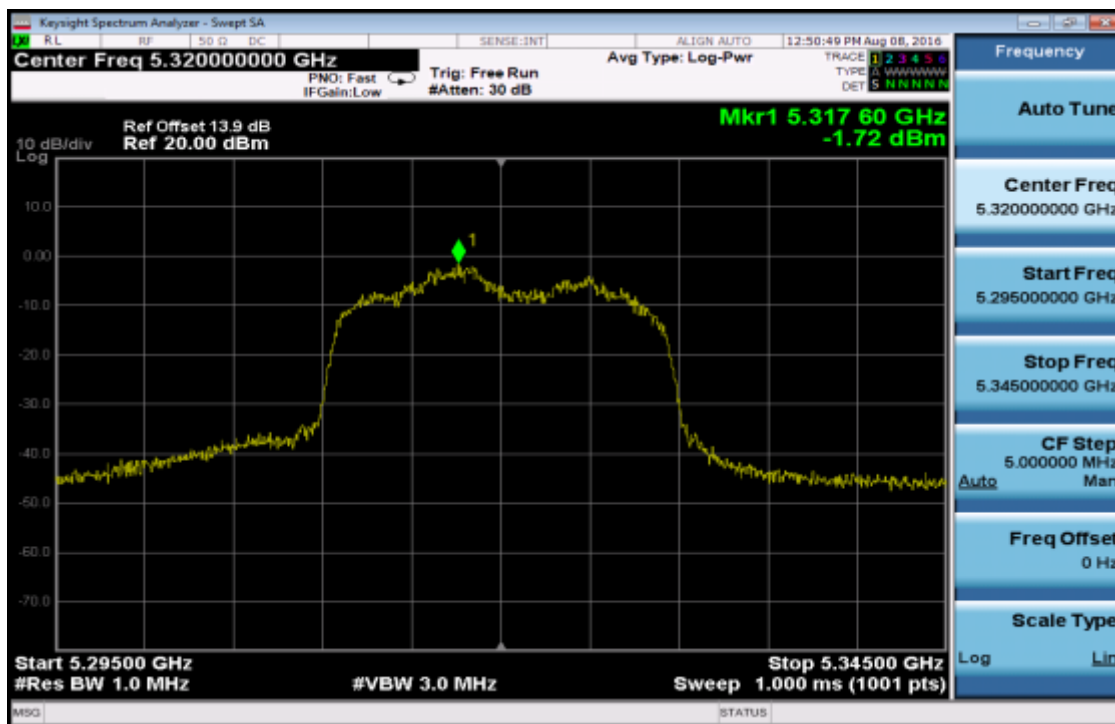
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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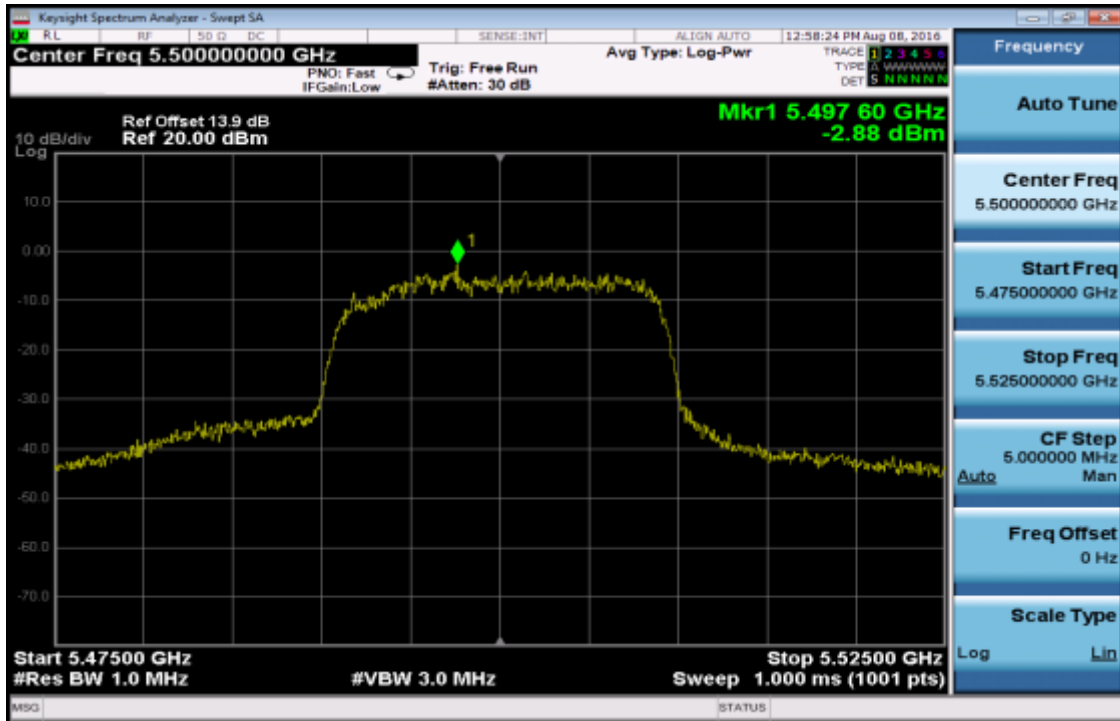
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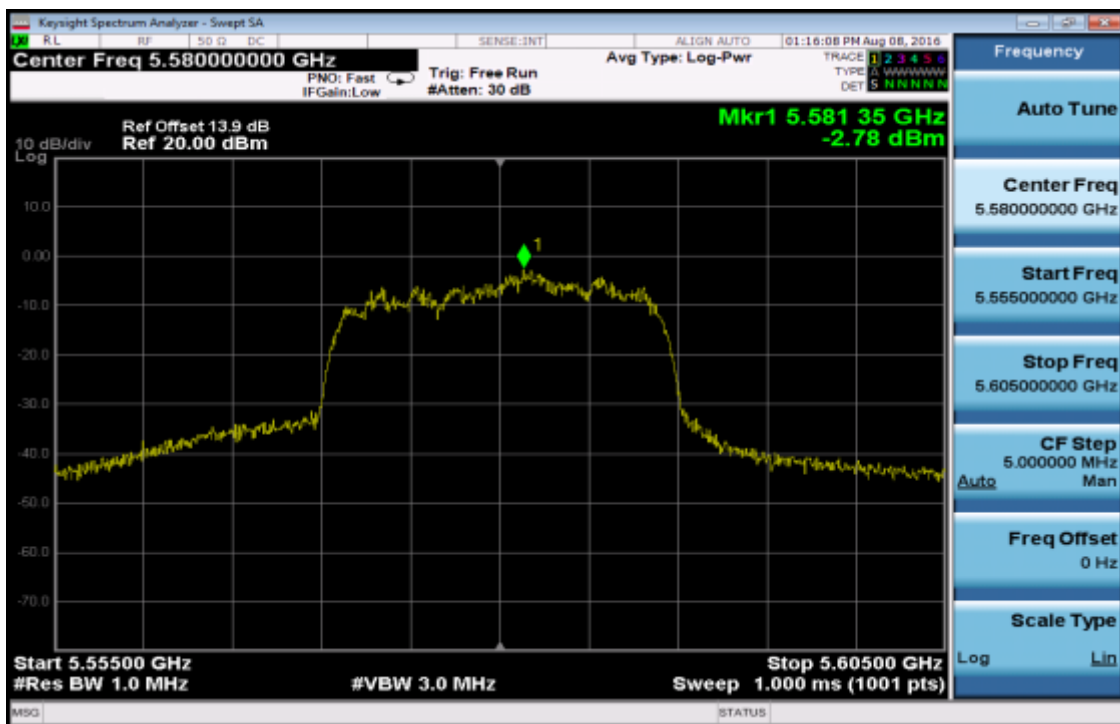
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802.11n HT20, 5470~5725 MHz Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



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



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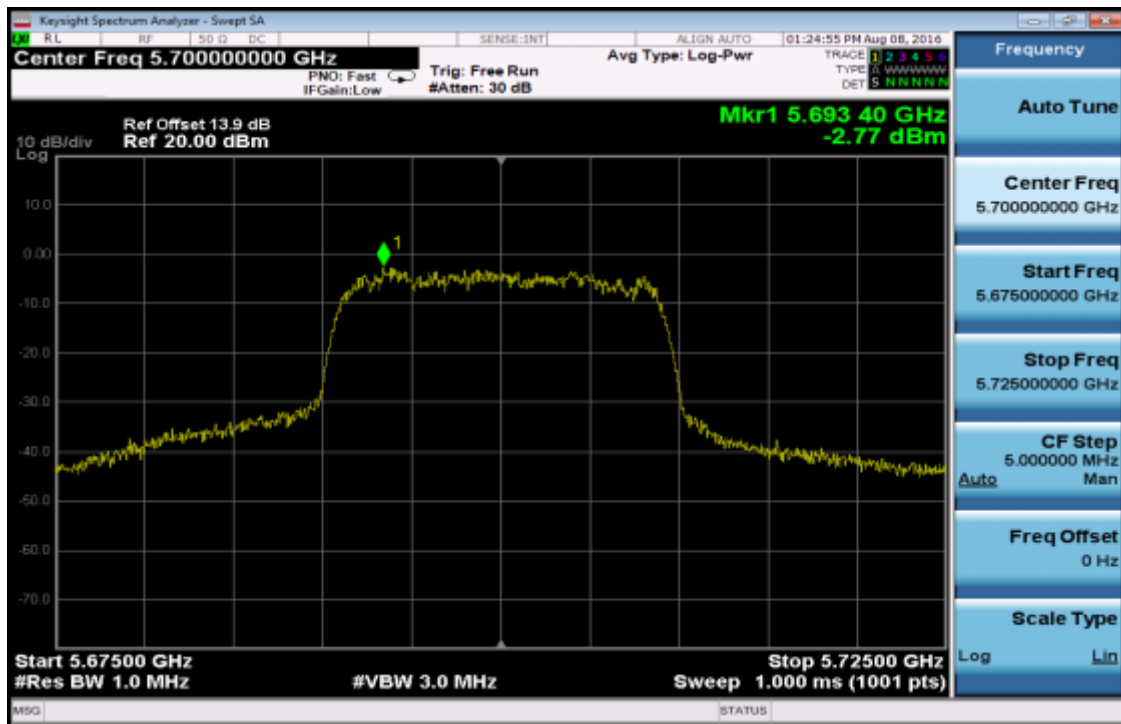
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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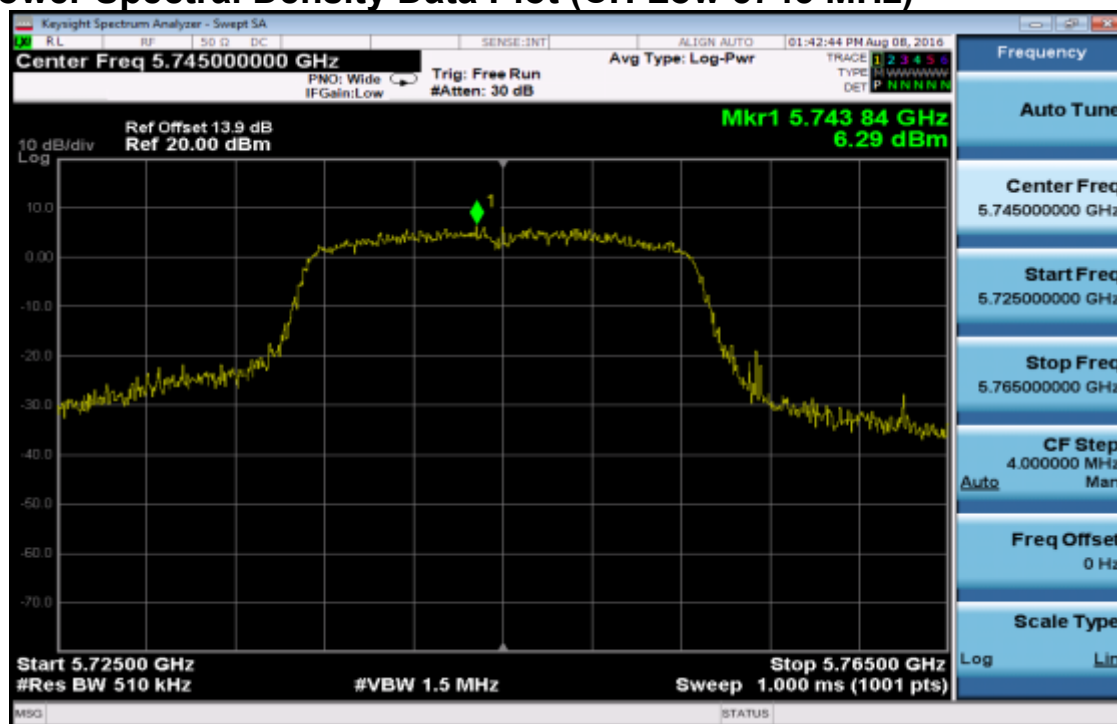
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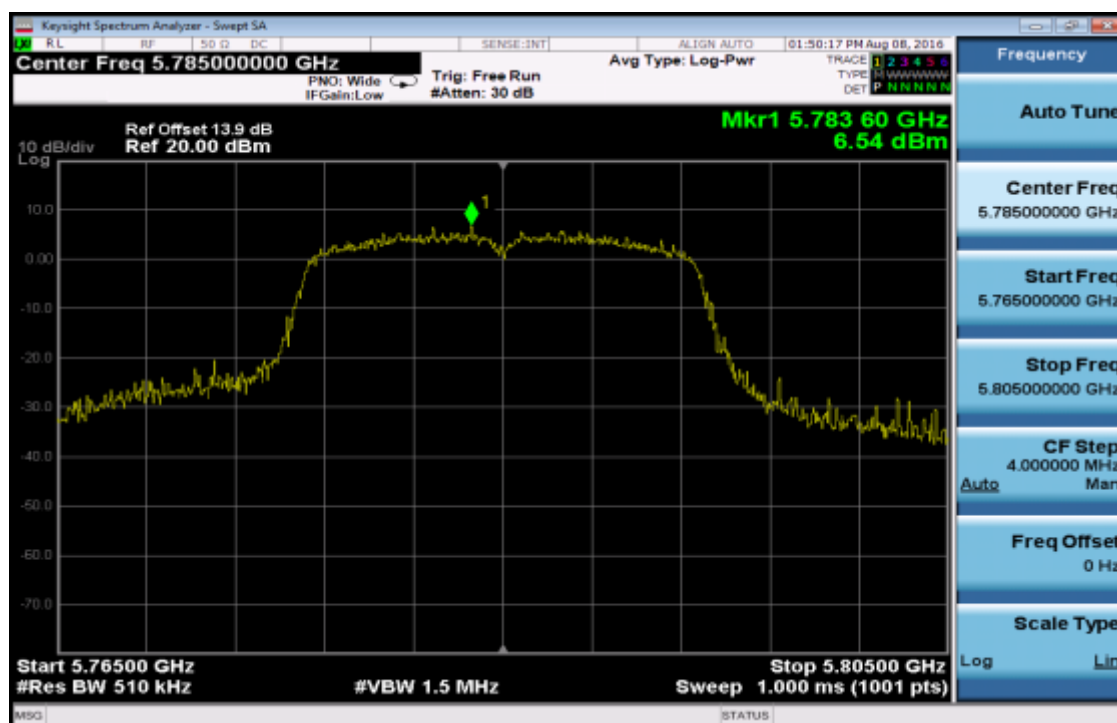
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802.11n HT20, 5725~5850 MHz Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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



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



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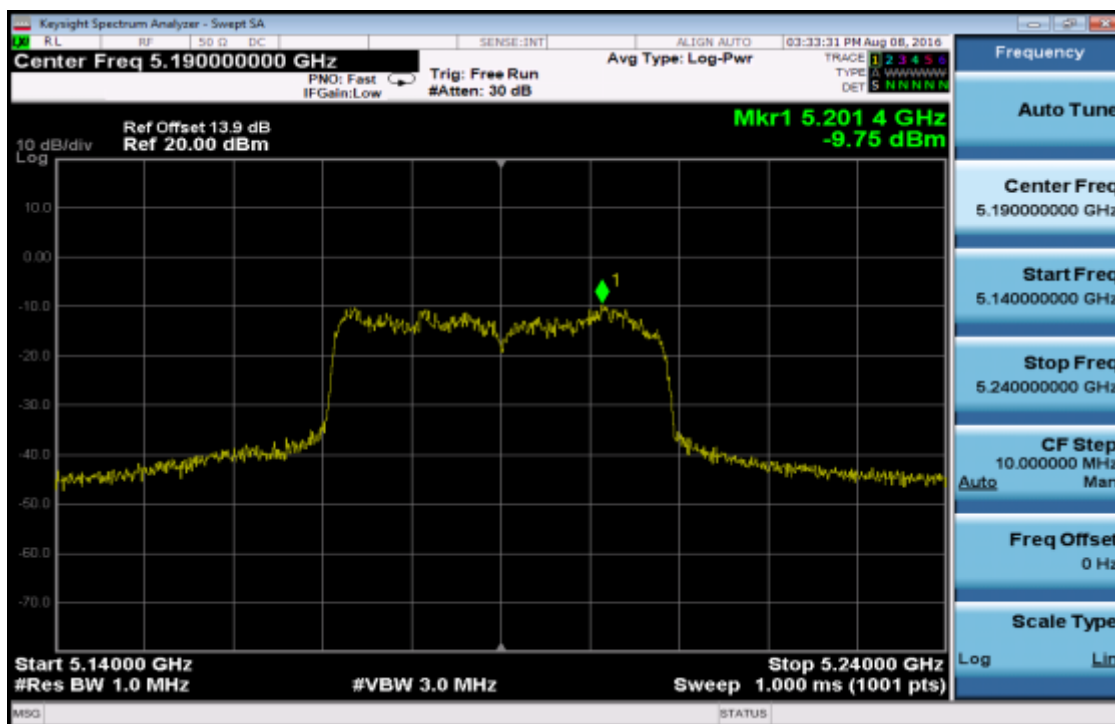
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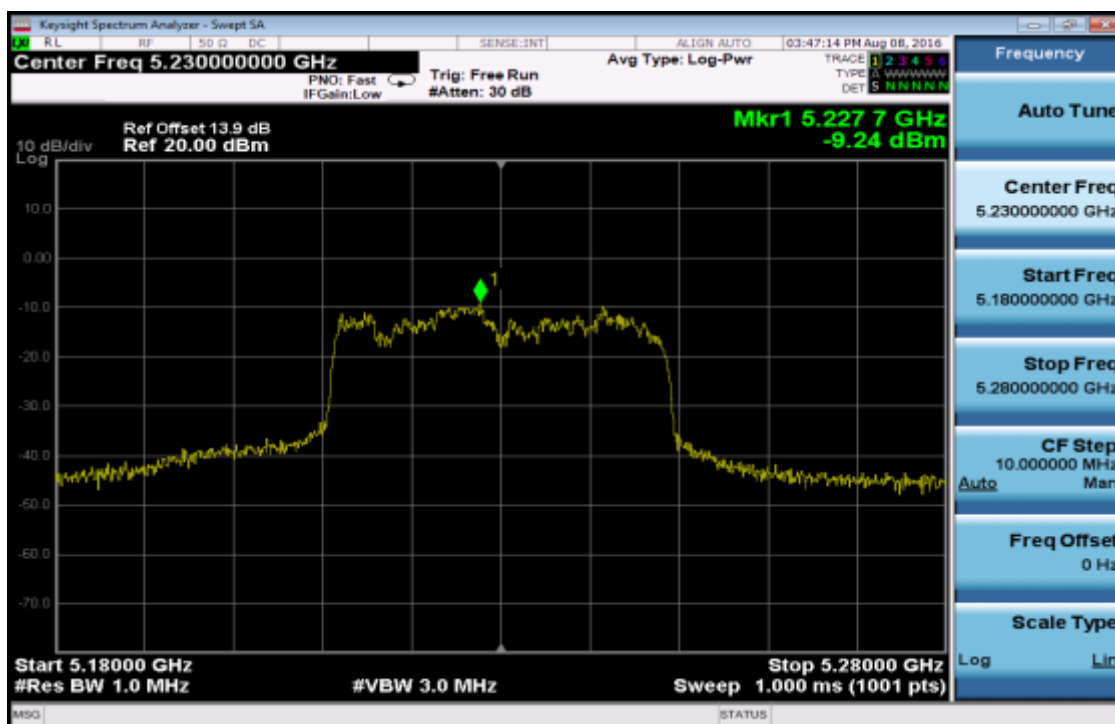
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802.11n HT40, 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



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



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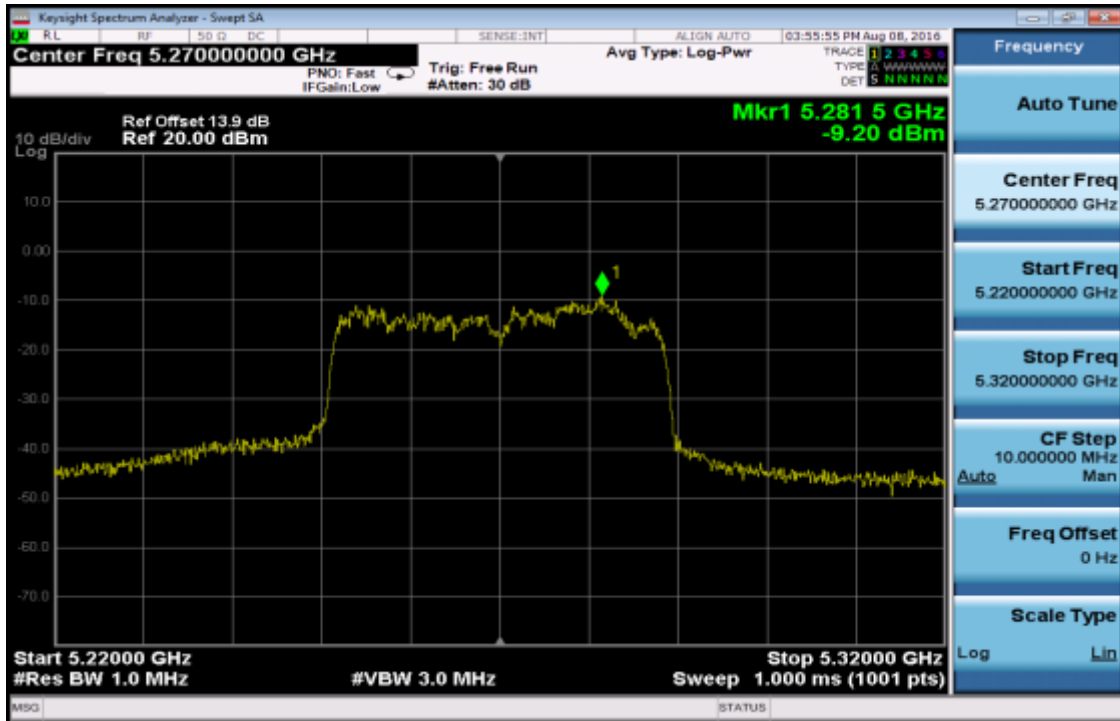
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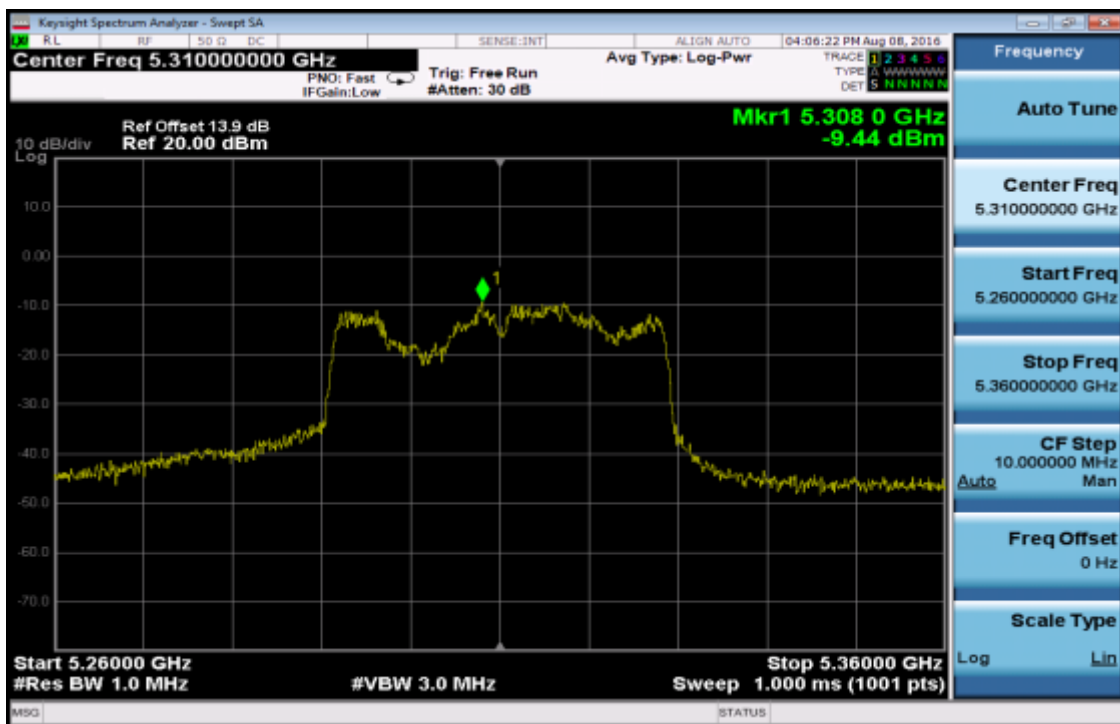
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802.11n HT40, 5250~5350 MHz Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



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



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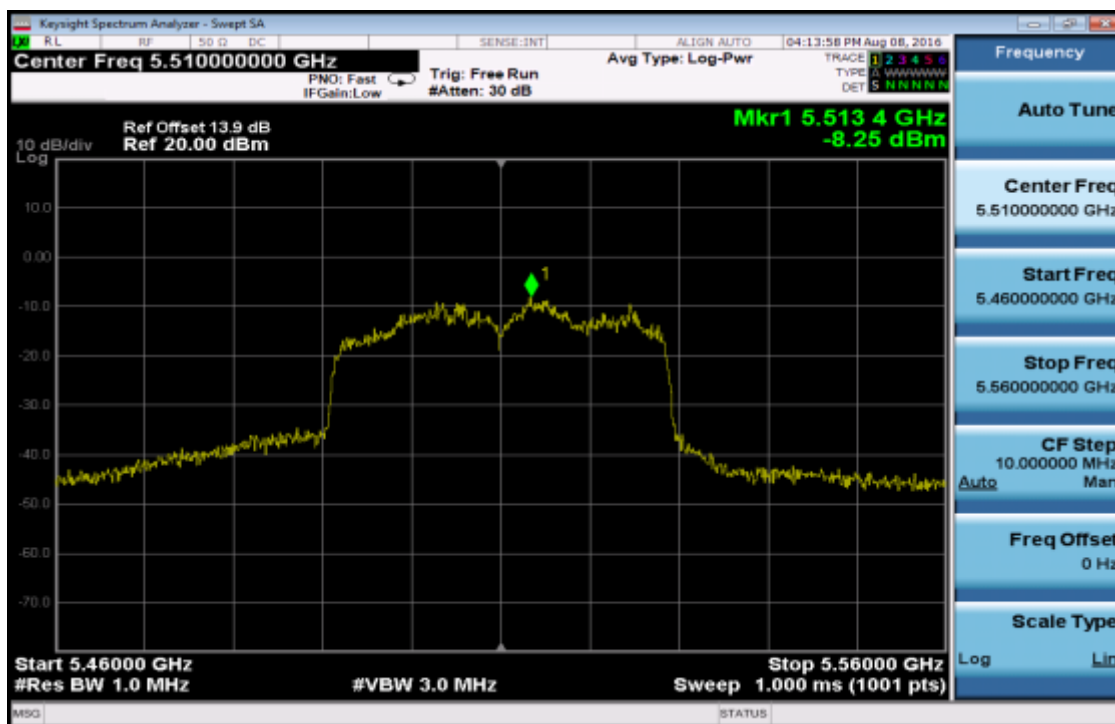
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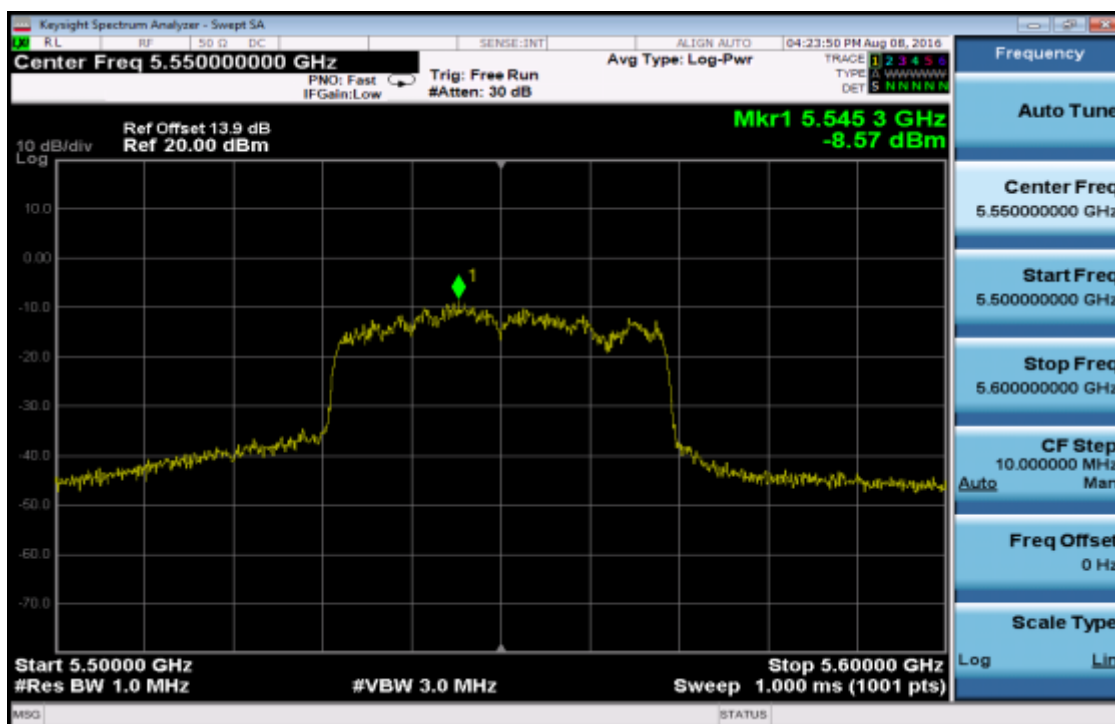
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802.11n HT40, 5470~5725 MHz

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



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



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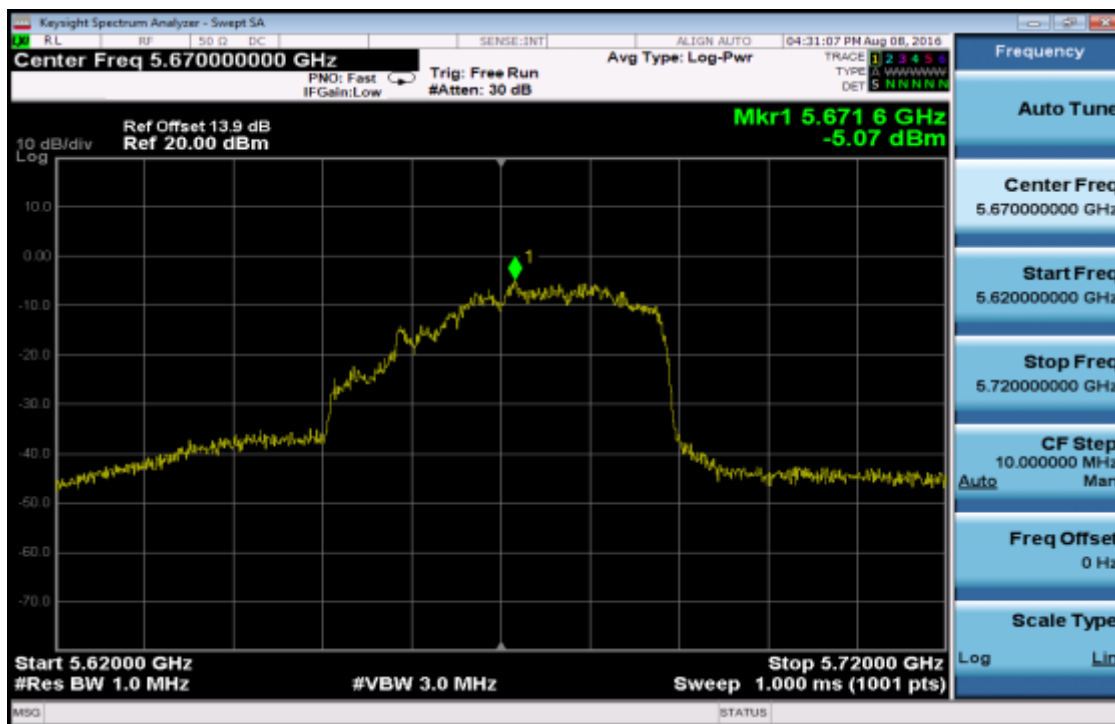
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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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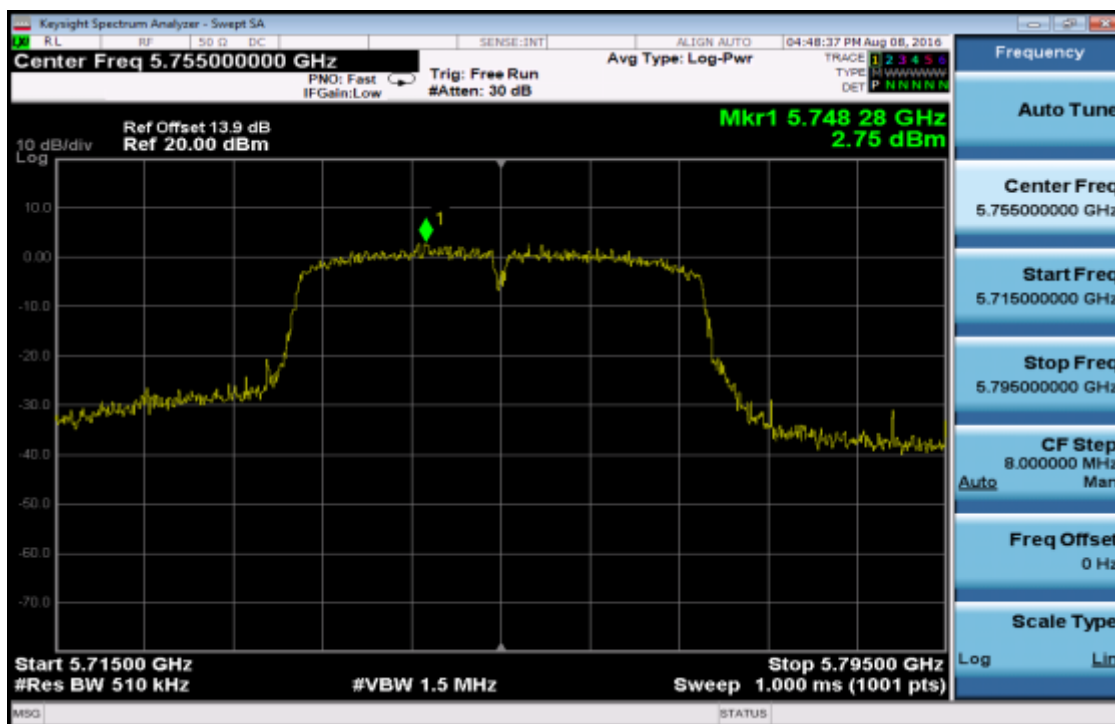
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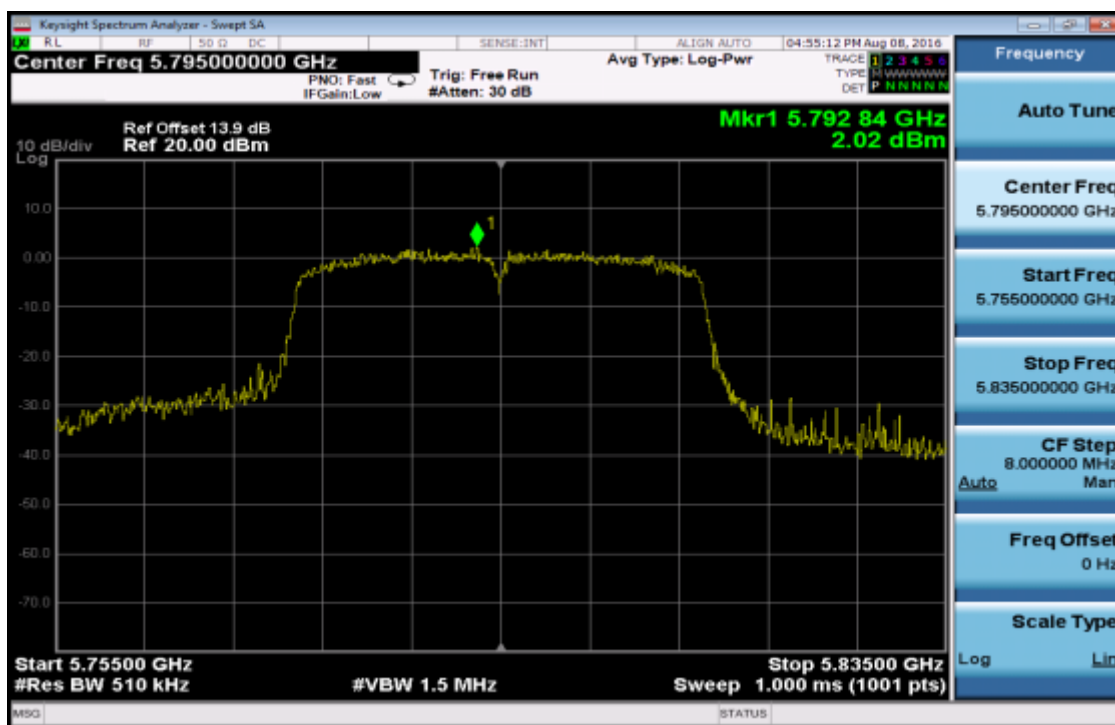
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802.11n HT40, 5725~5850 MHz

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



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



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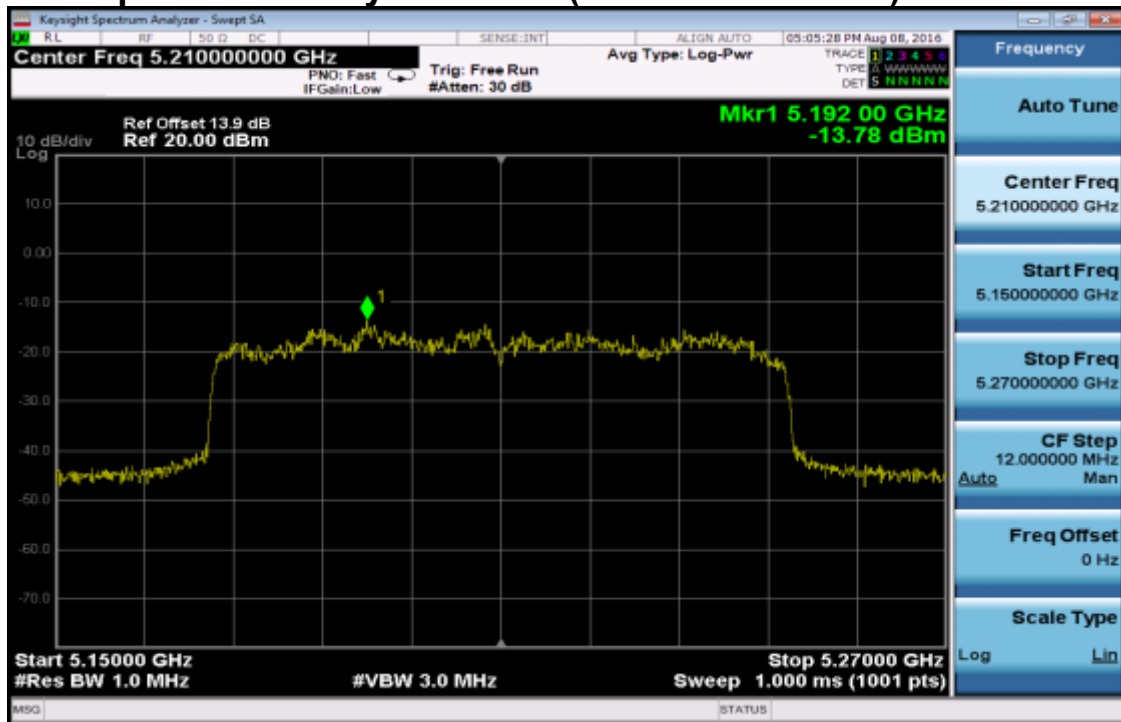
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802.11ac VHT80, 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)



802.11ac VHT80, 5250~5350 MHz Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)



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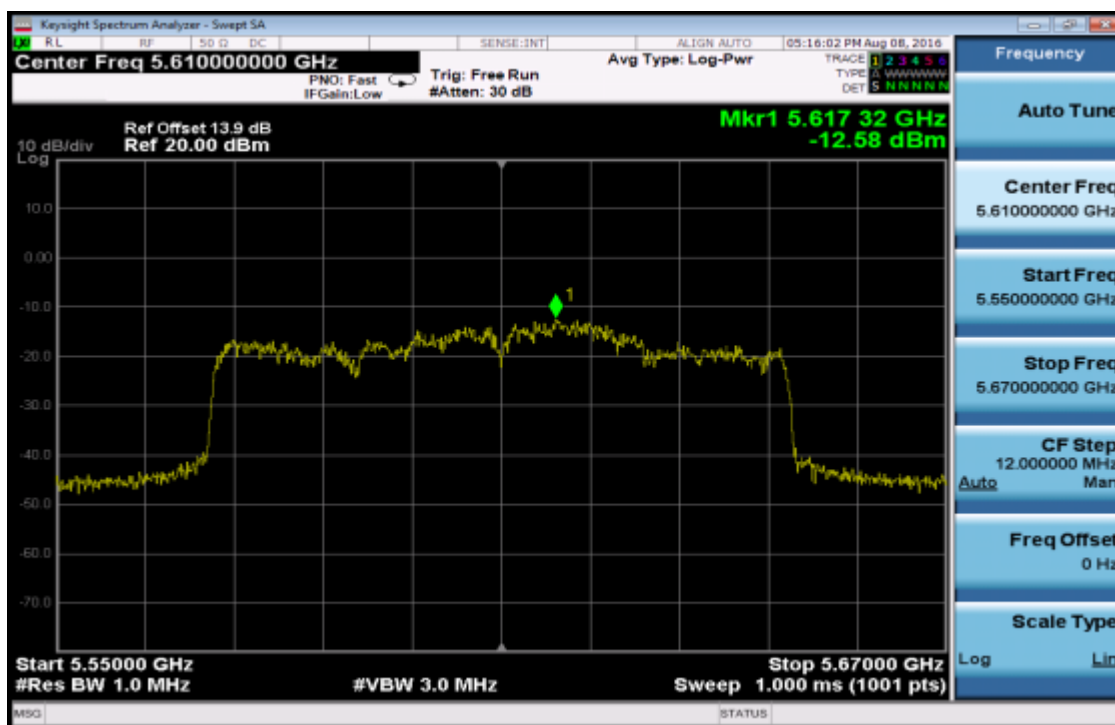
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802.11ac VHT80, 5470~5725 MHz

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



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



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802.11ac VHT80, 5725~5850 MHz Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

11.1 Standard Applicable

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

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

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
RSS-247 6.2.4 (2)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

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

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

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBμV/m) = 20 log Emission level (dBμV/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	ESC17	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017

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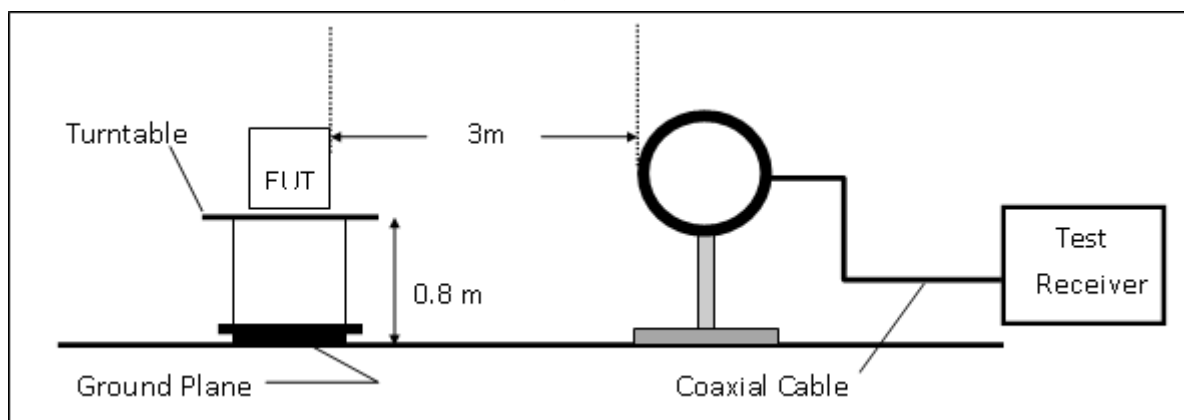
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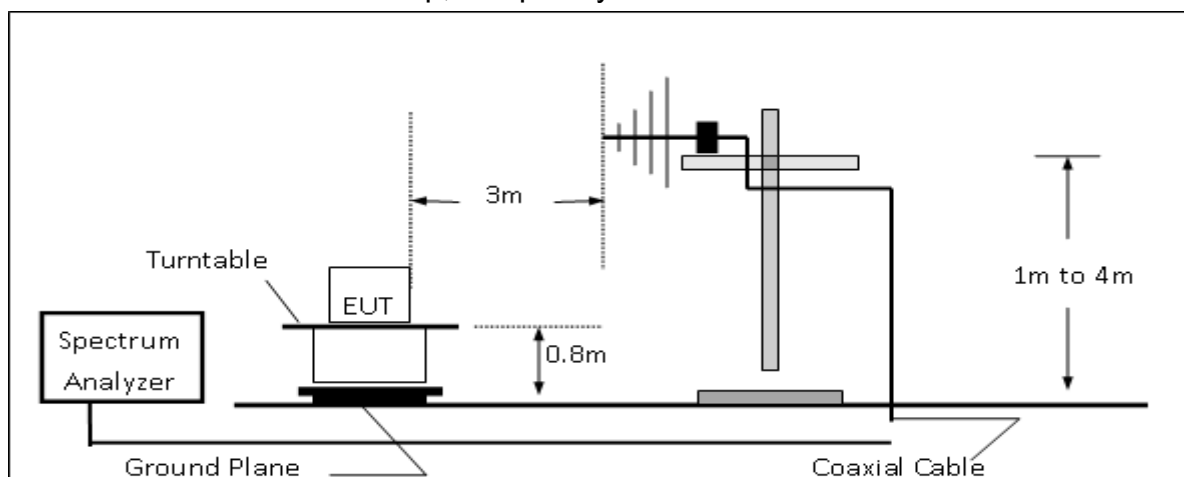
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11.3 Test SET-UP

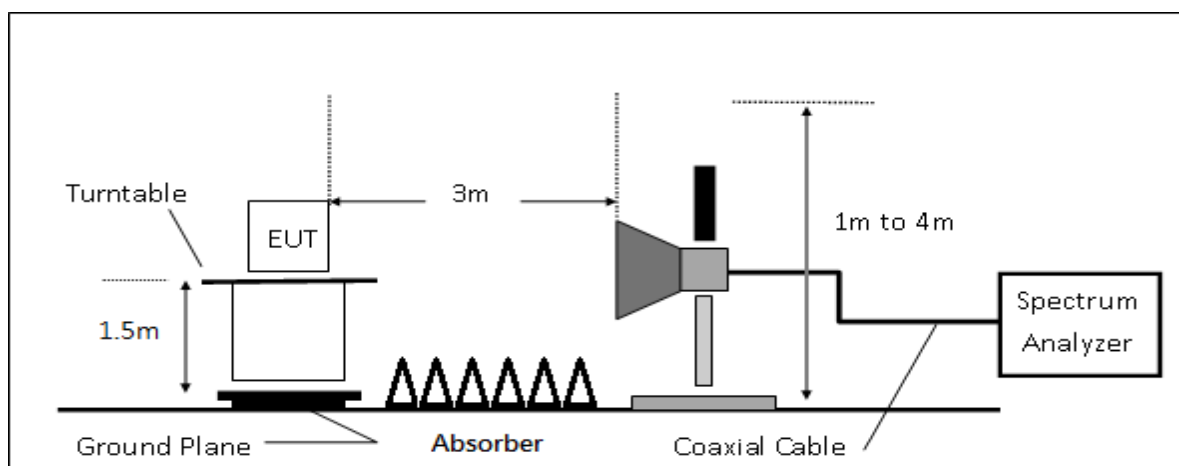
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

11.5 Field Strength Calculation

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

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

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

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

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

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Note :

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

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

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

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

11.7 Measurement Result

Refer to attach tabular data sheets.

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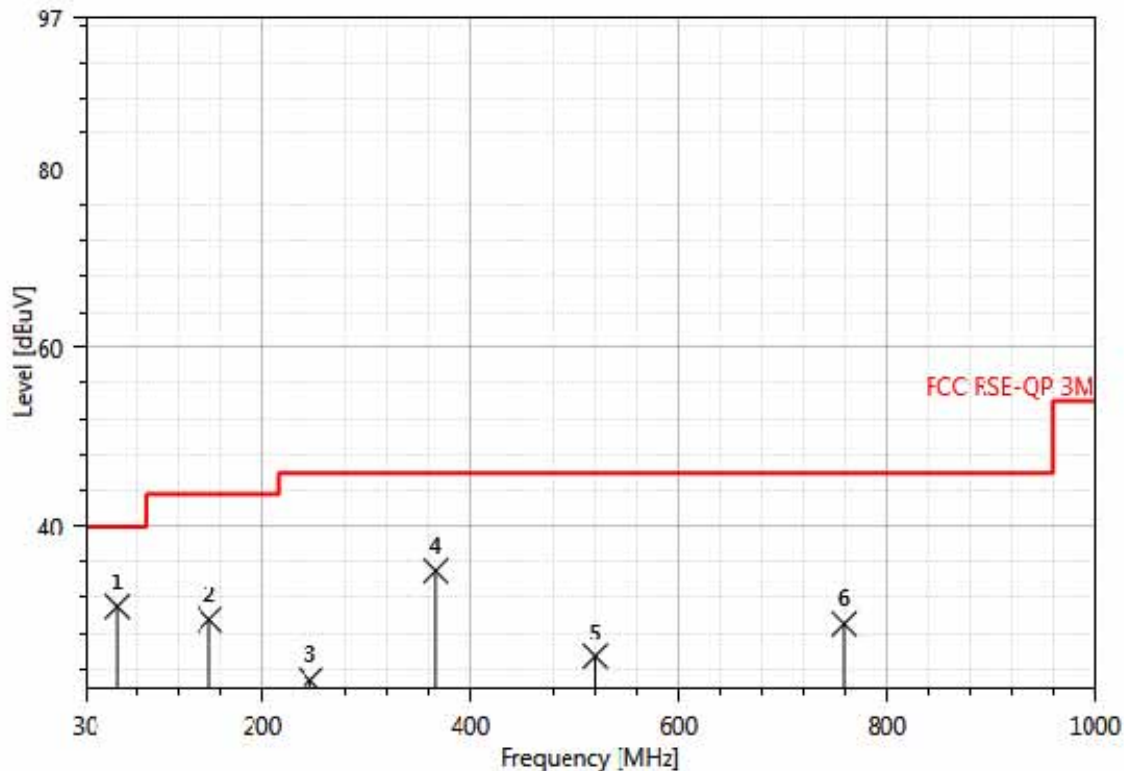
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
61.04	S	Peak	30.95	39.20	-8.25	40.00	-9.05
149.31	S	Peak	29.54	37.35	-7.82	43.50	-13.96
246.31	S	Peak	22.77	30.78	-8.01	46.00	-23.23
366.59	S	Peak	35.02	39.74	-4.72	46.00	-10.98
519.85	S	Peak	25.38	27.01	-1.62	46.00	-20.62
759.44	S	Peak	29.08	26.07	3.01	46.00	-16.92

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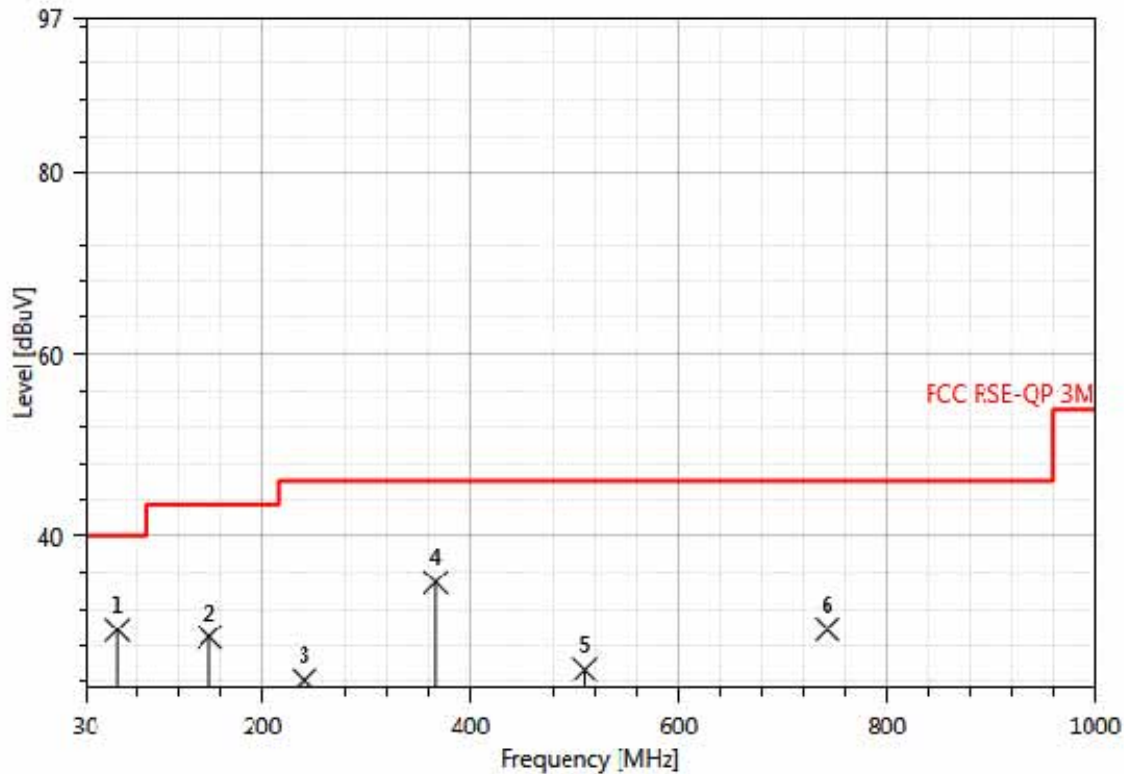
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Operation Mode :	802.11aB1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	29.69	37.94	-8.25	40.00	-10.31
149.31	S	Peak	28.91	36.73	-7.82	43.50	-14.59
240.49	S	Peak	24.15	32.18	-8.03	46.00	-21.85
366.59	S	Peak	34.93	39.65	-4.72	46.00	-11.07
510.15	S	Peak	25.35	27.55	-2.20	46.00	-20.65
742.95	S	Peak	29.76	27.49	2.28	46.00	-16.24

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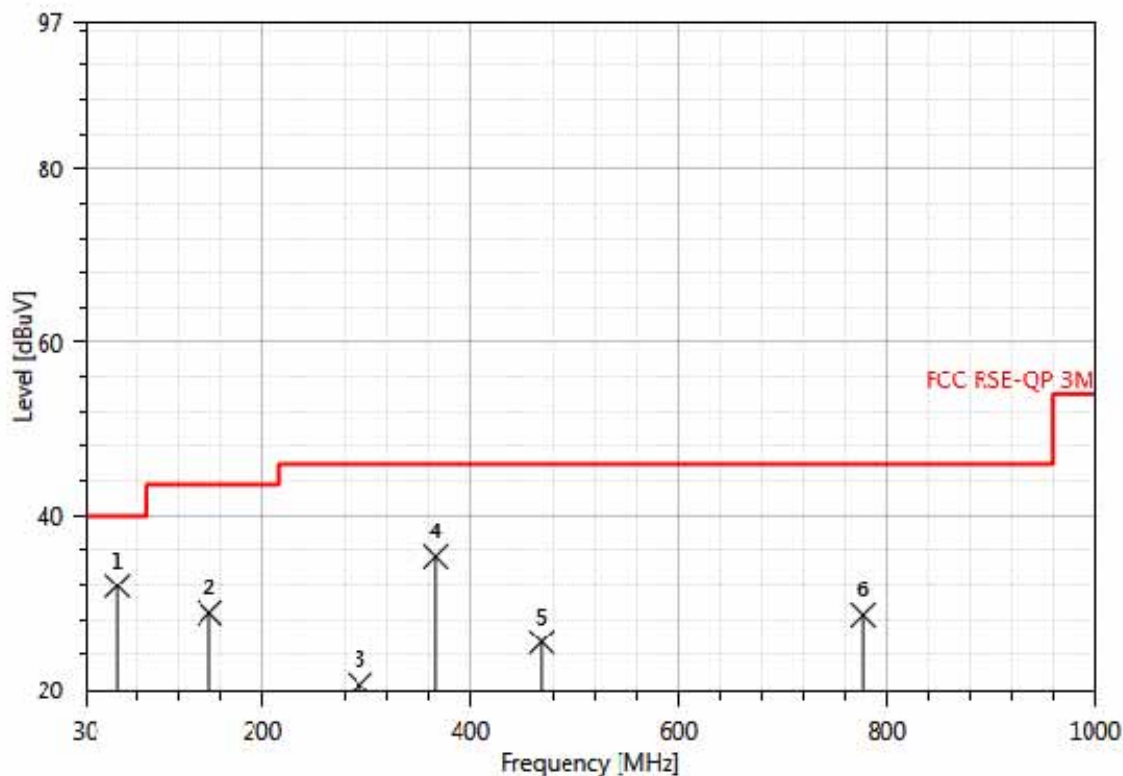
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802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
61.04	S	Peak	31.89	40.14	-8.25	40.00	-8.11
149.31	S	Peak	28.78	36.60	-7.82	43.50	-14.72
293.84	S	Peak	20.51	26.56	-6.05	46.00	-25.49
366.59	S	Peak	35.28	40.00	-4.72	46.00	-10.72
468.44	S	Peak	25.41	27.98	-2.57	46.00	-20.59
776.90	S	Peak	28.56	26.01	2.54	46.00	-17.44

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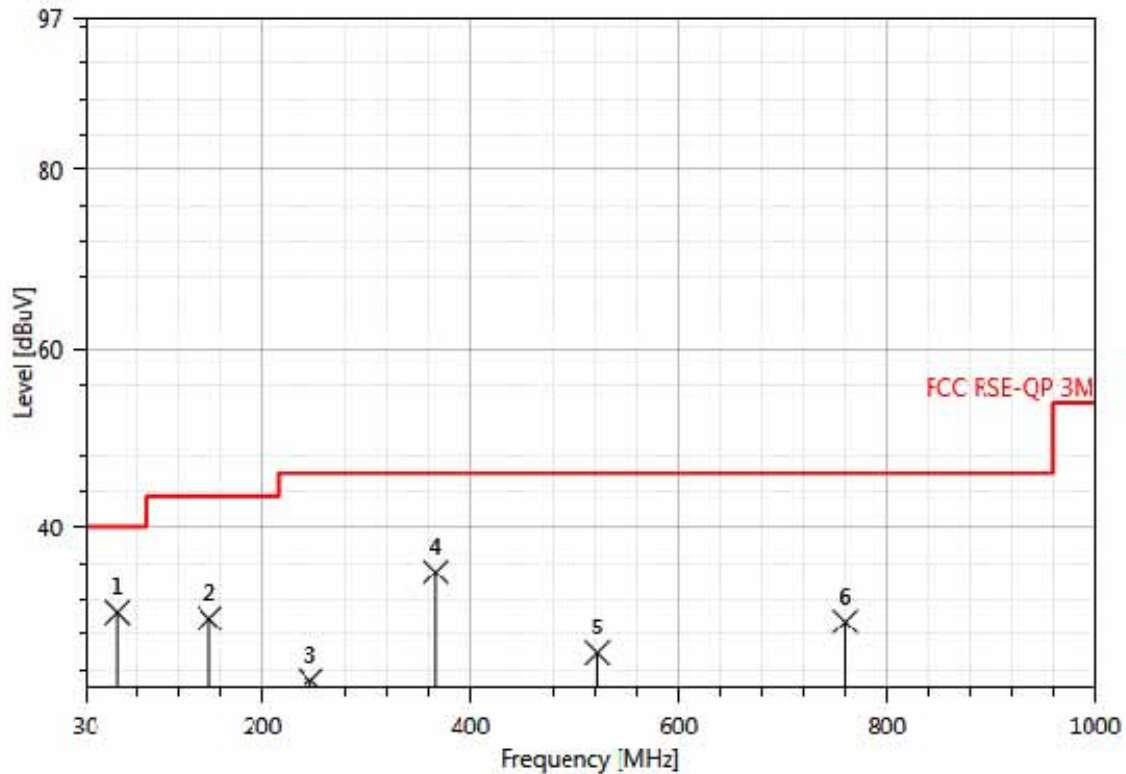
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f (886-2) 2298-0488

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Operation Mode :	802.11aB2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	30.54	38.79	-8.25	40.00	-9.46
149.31	S	Peak	29.84	37.66	-7.82	43.50	-13.66
246.31	S	Peak	22.91	30.93	-8.01	46.00	-23.09
366.59	S	Peak	35.03	39.75	-4.72	46.00	-10.97
521.79	S	Peak	25.99	27.59	-1.60	46.00	-20.01
760.41	S	Peak	29.49	26.54	2.95	46.00	-16.51

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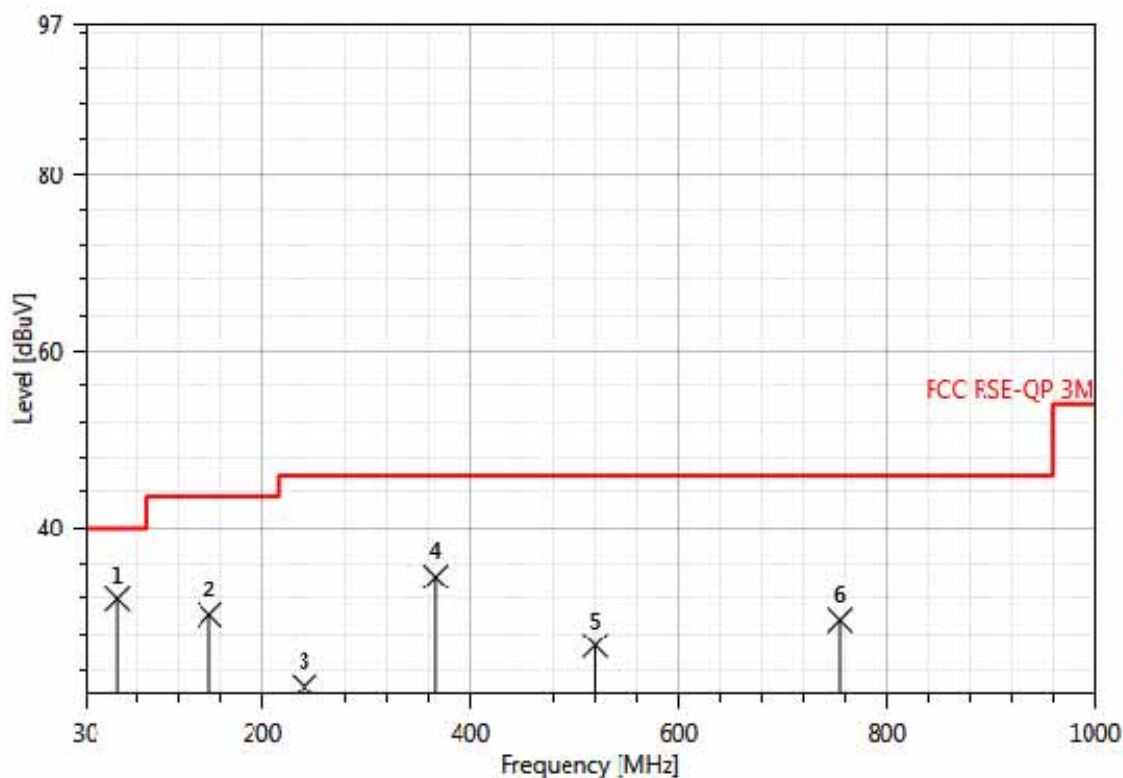
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802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
61.04	S	Peak	31.94	40.19	-8.25	40.00	-8.06
149.31	S	Peak	30.19	38.00	-7.82	43.50	-13.31
240.49	S	Peak	22.06	30.09	-8.03	46.00	-23.94
366.59	S	Peak	34.47	39.19	-4.72	46.00	-11.53
519.85	S	Peak	26.69	28.31	-1.62	46.00	-19.31
755.56	S	Peak	29.59	26.78	2.81	46.00	-16.41

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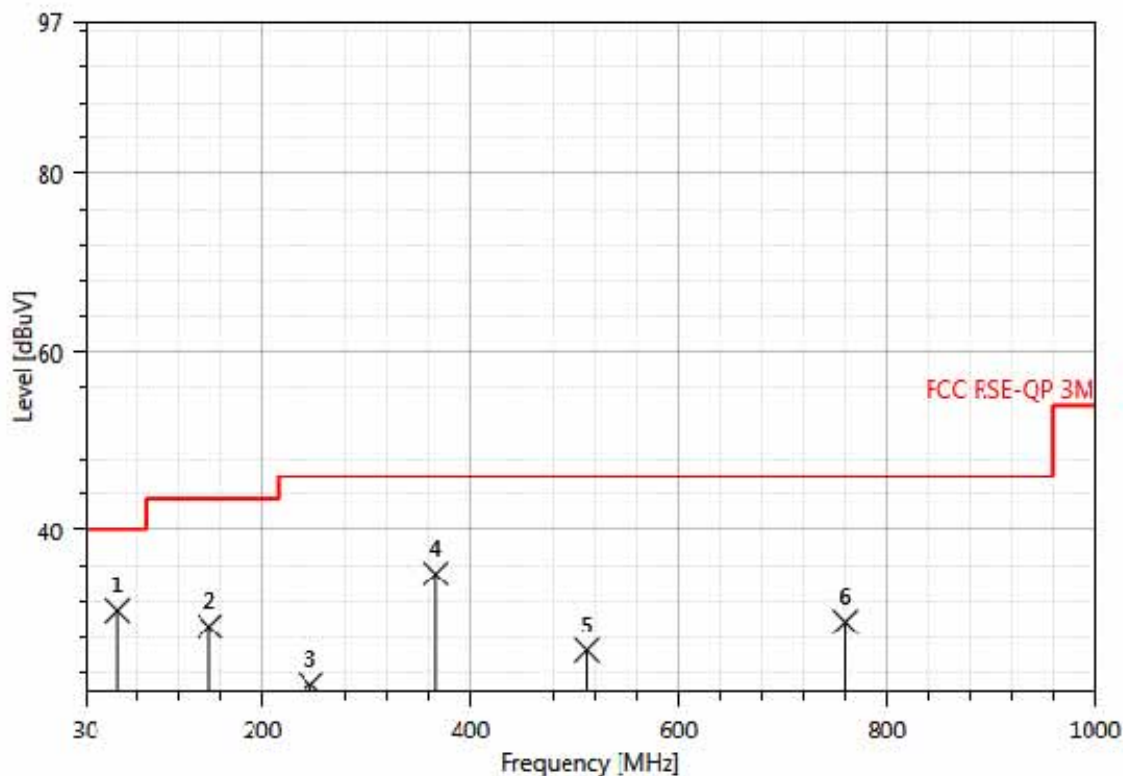
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Operation Mode : 802.11aB3
 Fundamental Frequency : 5580 MHz
 Operation Band : Tx CH MID
 EUT Pol. : H Plane

Test Date : 08/04/2016
 Temp. / Humi. : 23 deg_C / 62 RH
 Test Engineer : Tin
 Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	30.97	39.22	-8.25	40.00	-9.03
149.31	S	Peak	29.18	36.99	-7.82	43.50	-14.32
246.31	S	Peak	22.69	30.70	-8.01	46.00	-23.31
366.59	S	Peak	35.09	39.81	-4.72	46.00	-10.91
512.09	S	Peak	26.50	28.48	-1.98	46.00	-19.50
760.41	S	Peak	29.71	26.76	2.95	46.00	-16.29

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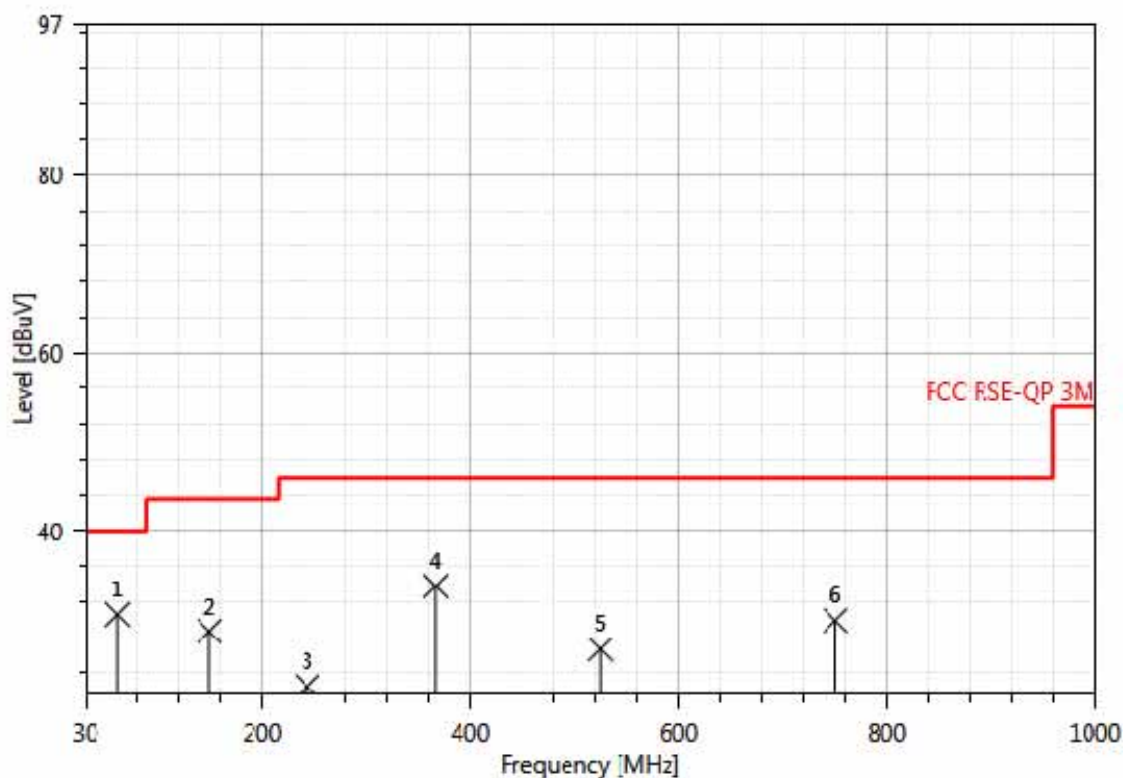
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802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
61.04	S	Peak	30.55	38.80	-8.25	40.00	-9.45
149.31	S	Peak	28.66	36.48	-7.82	43.50	-14.84
243.40	S	Peak	22.44	30.47	-8.03	46.00	-23.56
366.59	S	Peak	33.75	38.47	-4.72	46.00	-12.25
524.70	S	Peak	26.66	28.33	-1.68	46.00	-19.34
750.71	S	Peak	29.88	27.13	2.76	46.00	-16.12

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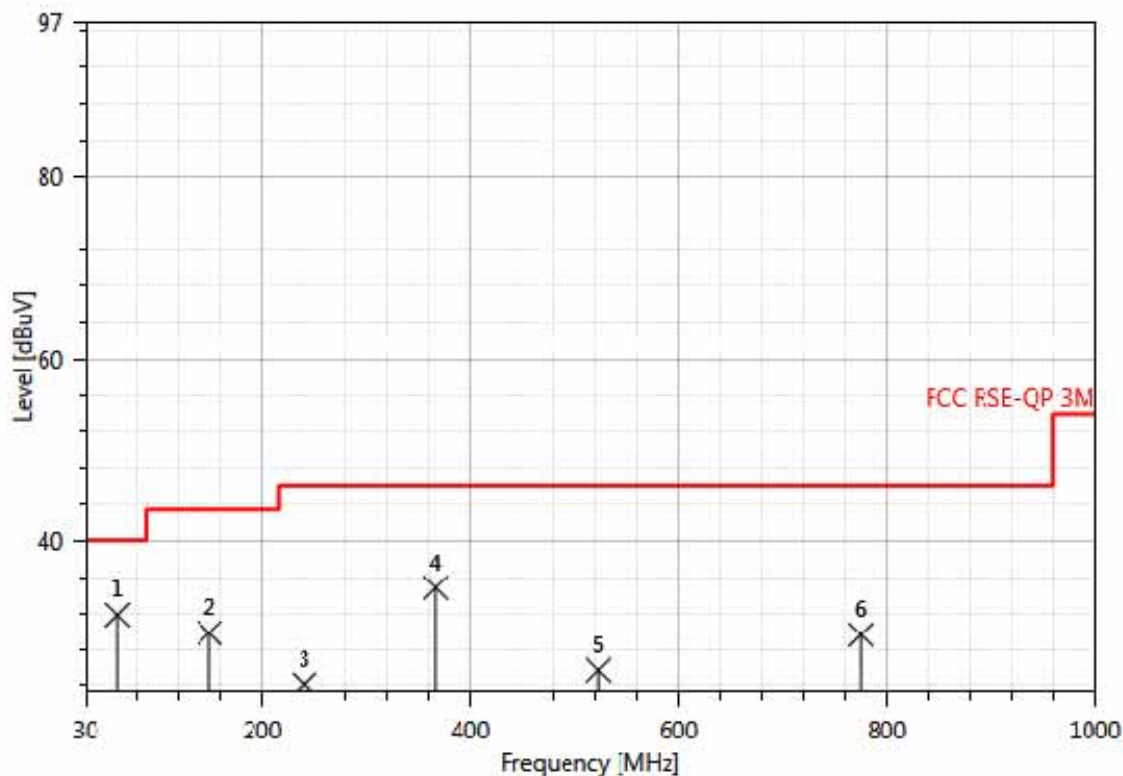
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Operation Mode :	802.11aB4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	31.90	40.15	-8.25	40.00	-8.10
149.31	S	Peak	29.91	37.72	-7.82	43.50	-13.59
240.49	S	Peak	24.26	32.30	-8.03	46.00	-21.74
366.59	S	Peak	34.87	39.59	-4.72	46.00	-11.13
522.76	S	Peak	25.87	27.52	-1.66	46.00	-20.13
774.96	S	Peak	29.71	26.95	2.76	46.00	-16.29

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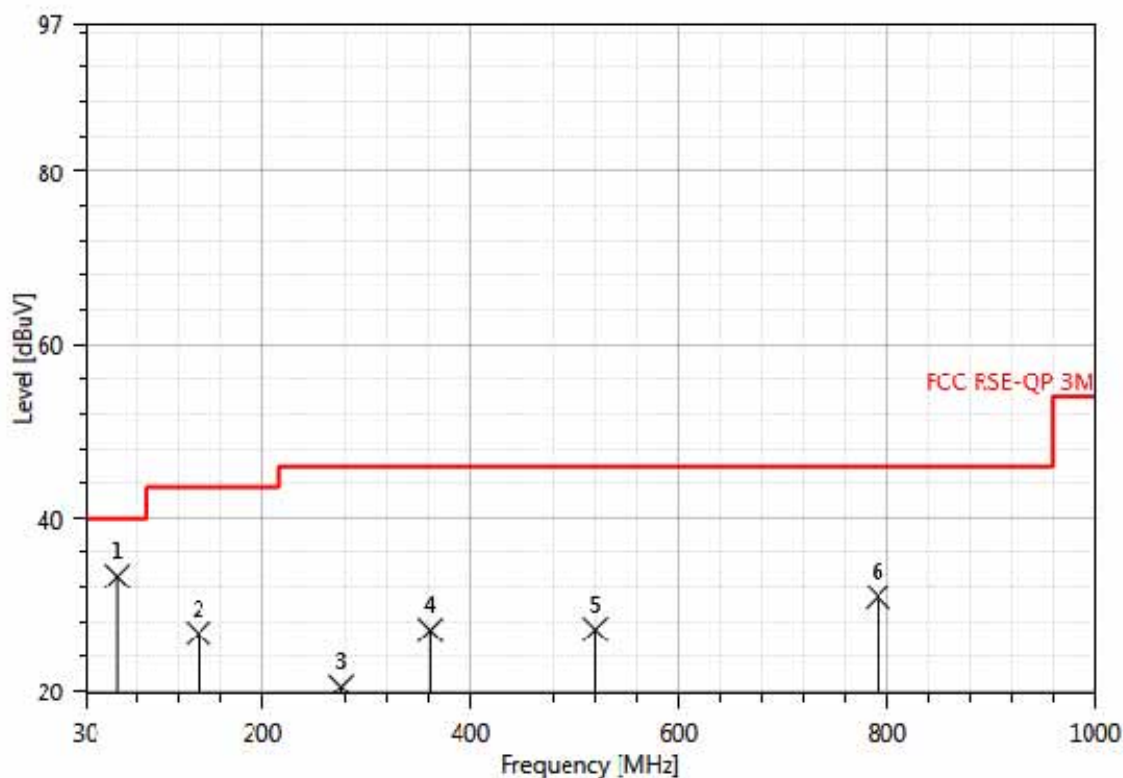
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802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	08/04/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
61.04	S	Peak	33.30	41.55	-8.25	40.00	-6.70
138.64	S	Peak	26.72	35.21	-8.49	43.50	-16.78
275.41	S	Peak	20.59	27.21	-6.63	46.00	-25.41
361.74	S	Peak	27.10	31.90	-4.80	46.00	-18.90
519.85	S	Peak	27.19	28.82	-1.62	46.00	-18.81
791.45	S	Peak	30.91	28.02	2.89	46.00	-15.09

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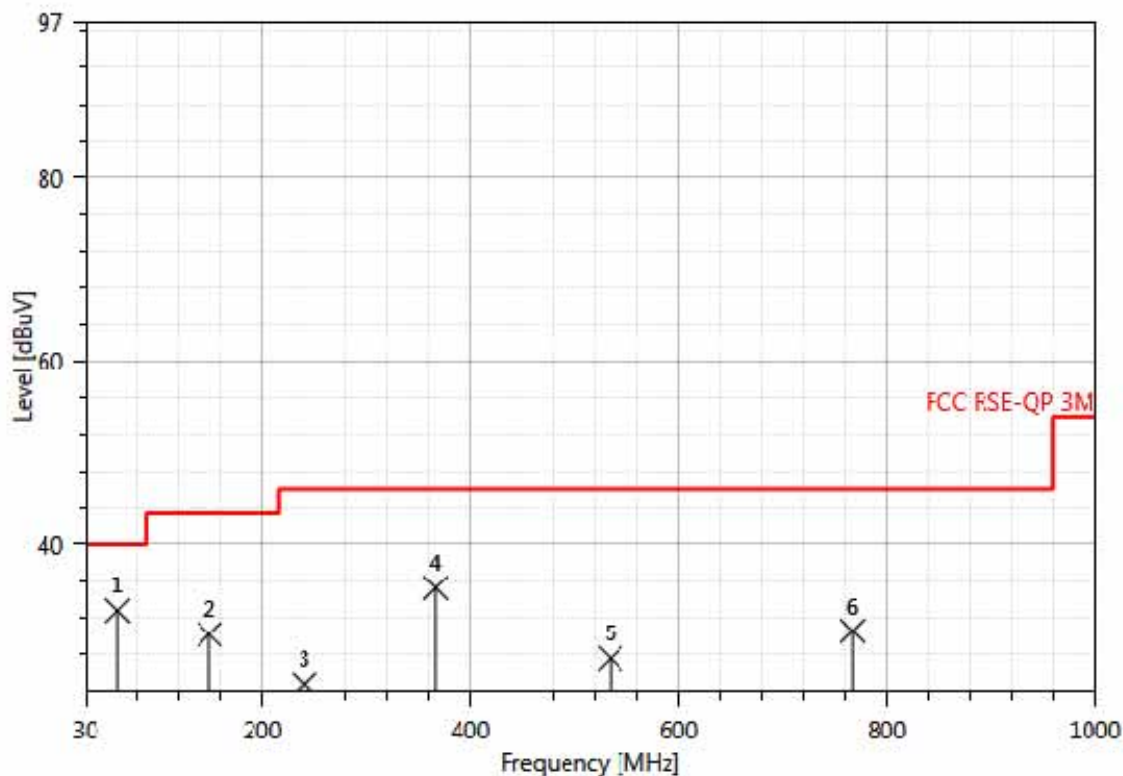
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Operation Mode : 802.11ac80B1 Test Date : 08/04/2016
Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	32.81	41.06	-8.25	40.00	-7.19
149.31	S	Peak	30.23	38.05	-7.82	43.50	-13.27
240.49	S	Peak	24.77	32.81	-8.03	46.00	-21.23
366.59	S	Peak	35.28	40.01	-4.72	46.00	-10.72
534.40	S	Peak	27.61	29.28	-1.67	46.00	-18.39
767.20	S	Peak	30.59	27.45	3.14	46.00	-15.41

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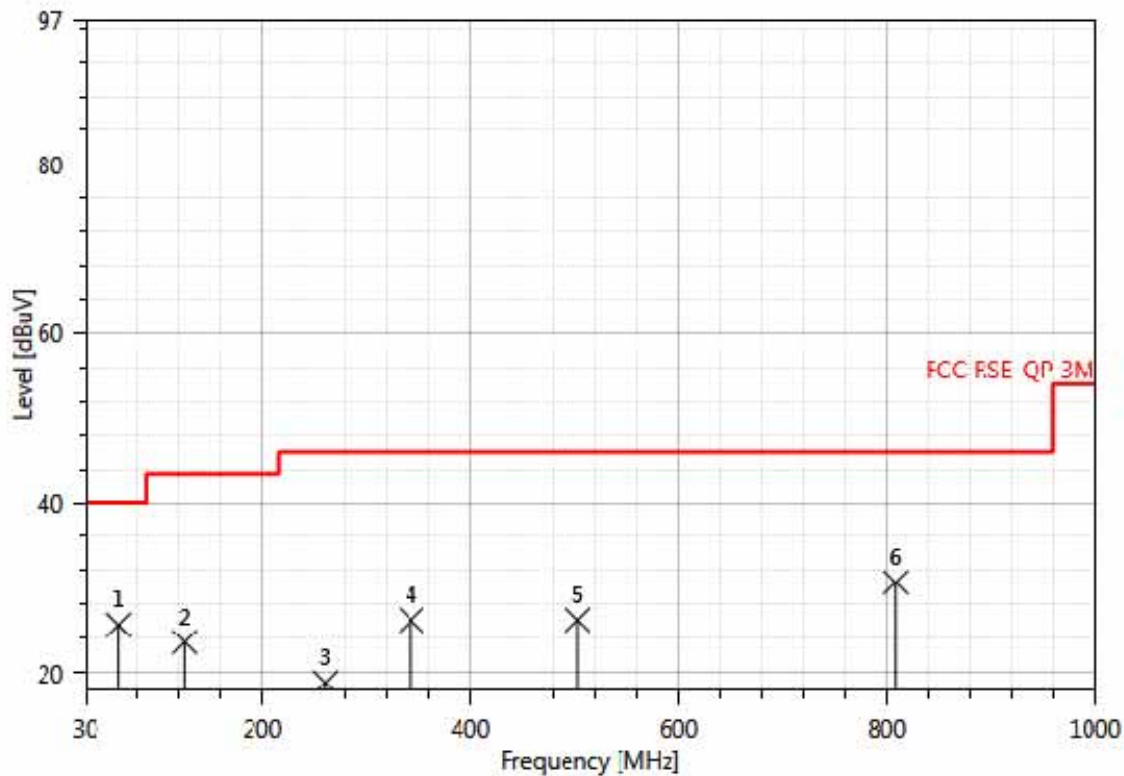
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802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	08/04/2016
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
62.01	S	Peak	25.61	34.08	-8.47	40.00	-14.39
125.06	S	Peak	23.57	33.55	-9.98	43.50	-19.93
260.86	S	Peak	18.79	26.04	-7.24	46.00	-27.21
343.31	S	Peak	26.17	31.30	-5.12	46.00	-19.83
503.36	S	Peak	26.19	28.59	-2.40	46.00	-19.81
808.91	S	Peak	30.62	27.38	3.24	46.00	-15.38

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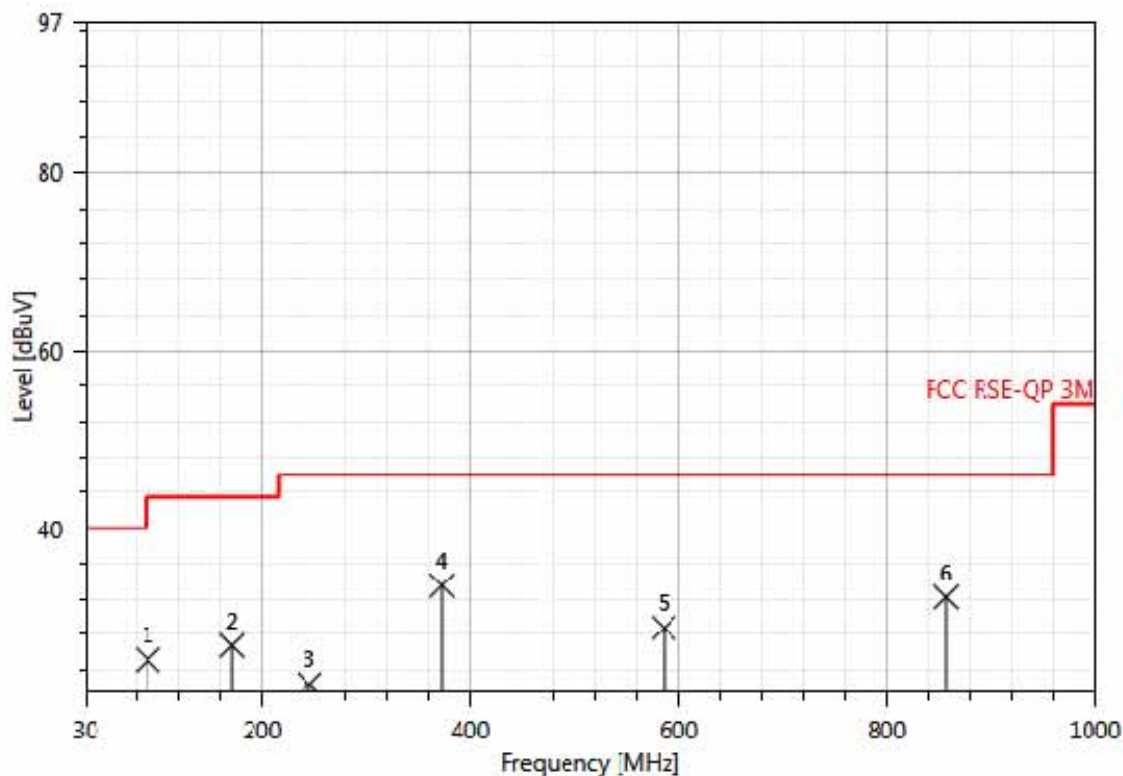
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Operation Mode : 802.11ac80B2 Test Date : 08/04/2016
Fundamental Frequency : 5290 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
90.14	S	Peak	25.17	38.89	-13.72	43.50	-18.33
170.65	S	Peak	26.77	34.43	-7.66	43.50	-16.73
245.34	S	Peak	22.41	30.45	-8.03	46.00	-23.59
372.41	S	Peak	33.53	38.07	-4.53	46.00	-12.47
585.81	S	Peak	28.78	28.74	0.04	46.00	-17.22
857.41	S	Peak	32.23	27.70	4.52	46.00	-13.77

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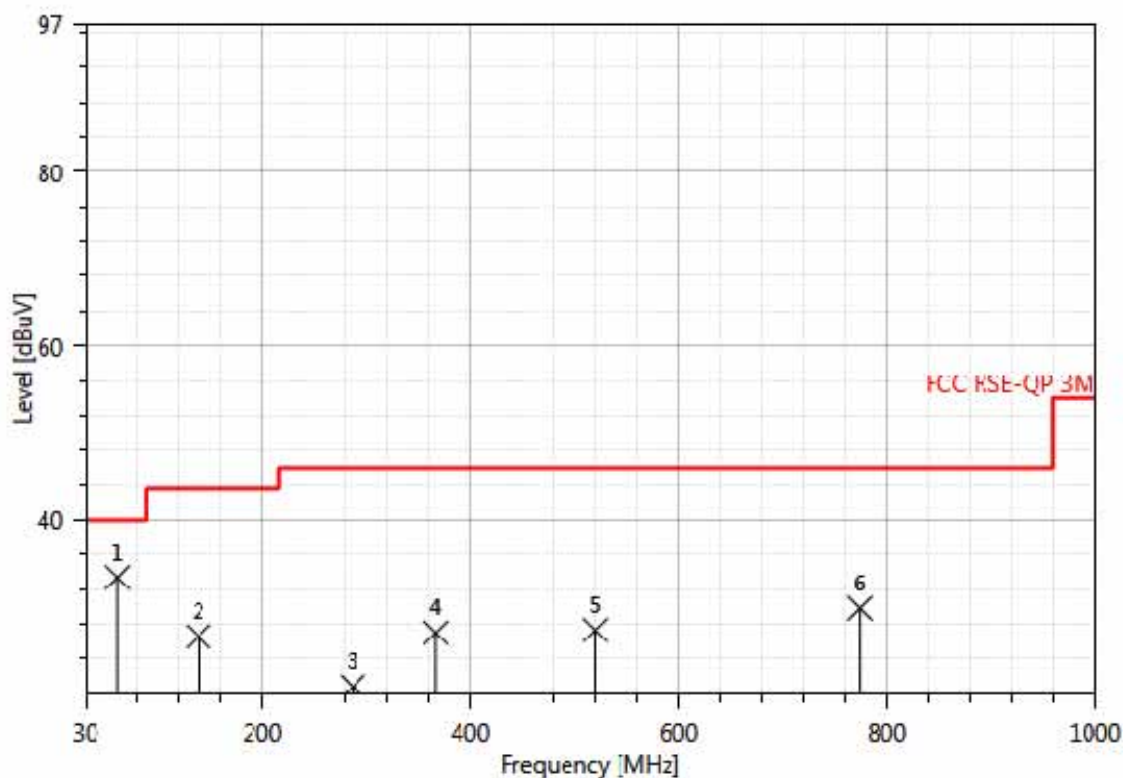
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802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
61.04	S	Peak	33.38	41.63	-8.25	40.00	-6.62
138.64	S	Peak	26.59	35.08	-8.49	43.50	-16.91
287.05	S	Peak	20.83	27.02	-6.19	46.00	-25.17
366.59	S	Peak	27.01	31.73	-4.72	46.00	-18.99
519.85	S	Peak	27.33	28.96	-1.62	46.00	-18.67
773.99	S	Peak	29.83	27.05	2.77	46.00	-16.17

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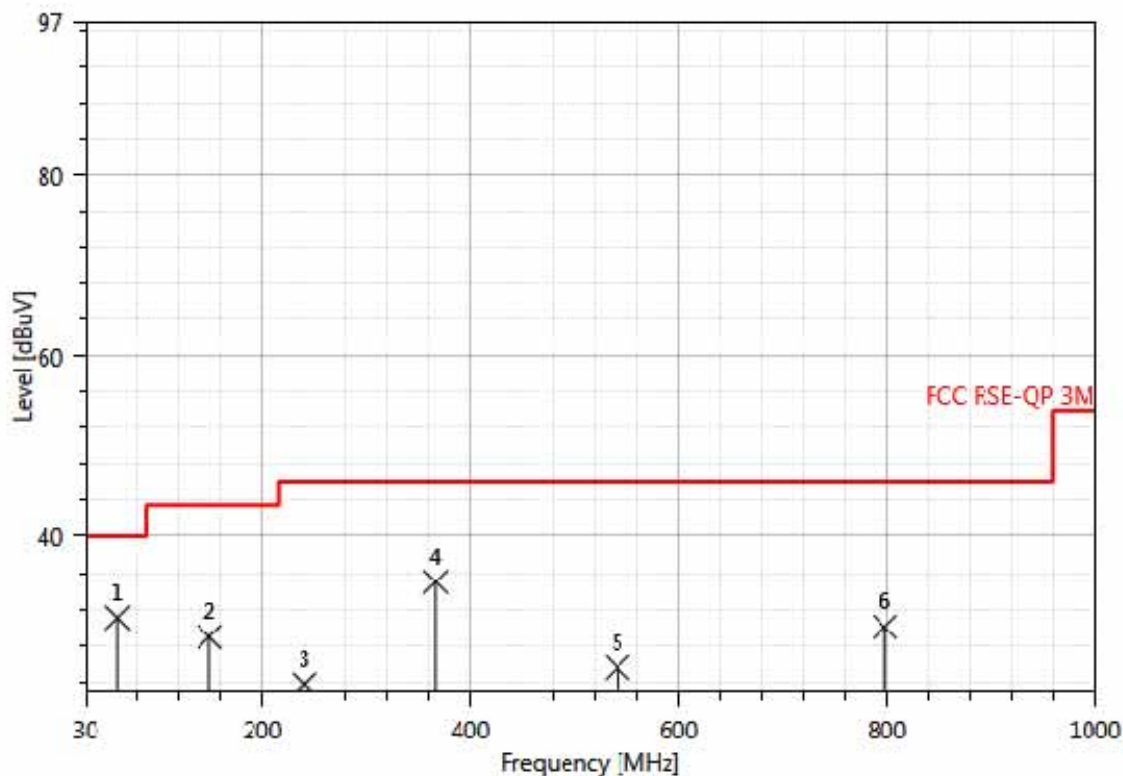
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Operation Mode : 802.11ac80B3 Test Date : 08/04/2016
Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	31.03	39.28	-8.25	40.00	-8.97
149.31	S	Peak	28.91	36.72	-7.82	43.50	-14.59
240.49	S	Peak	23.65	31.68	-8.03	46.00	-22.35
366.59	S	Peak	35.00	39.72	-4.72	46.00	-11.00
541.19	S	Peak	25.56	27.33	-1.78	46.00	-20.44
798.24	S	Peak	30.00	26.90	3.11	46.00	-16.00

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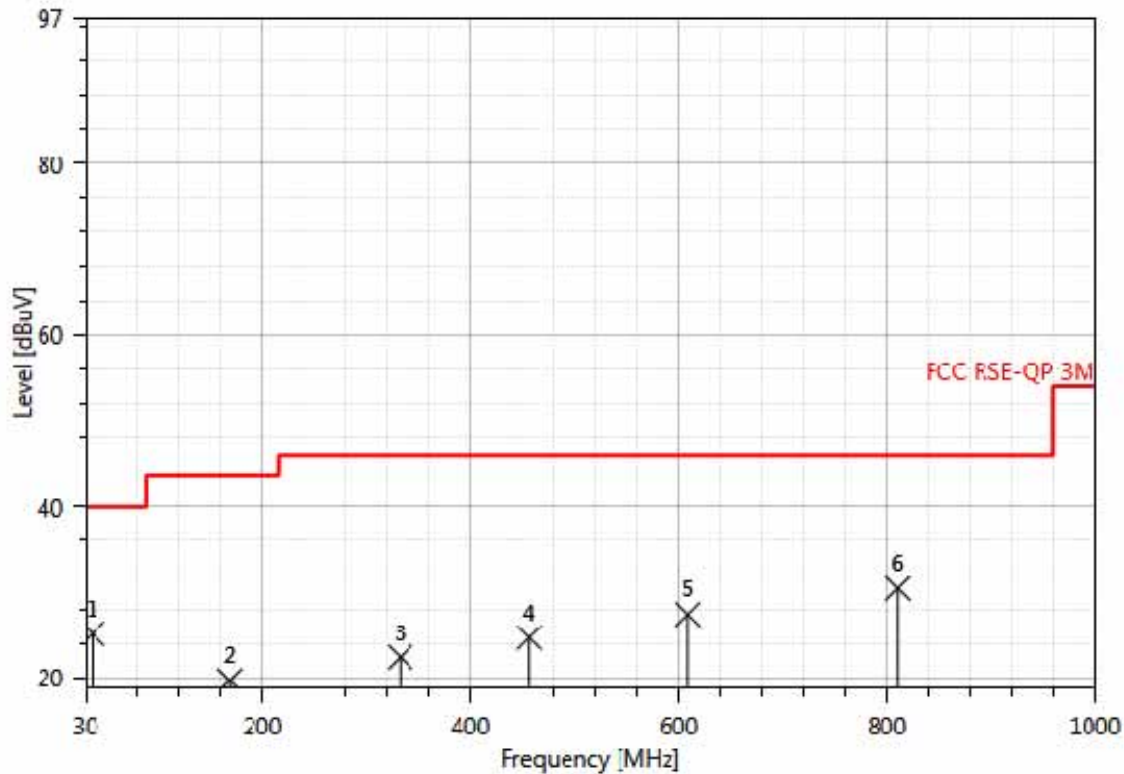
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Operation Mode : 802.11ac80B3 Test Date : 08/04/2016
Fundamental Frequency : 5610 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
36.79	S	Peak	25.14	33.97	-8.84	40.00	-14.86
168.71	S	Peak	19.69	27.22	-7.53	43.50	-23.81
332.64	S	Peak	22.41	27.72	-5.30	46.00	-23.59
456.80	S	Peak	24.68	27.34	-2.65	46.00	-21.32
609.09	S	Peak	27.39	27.72	-0.33	46.00	-18.61
810.85	S	Peak	30.40	27.13	3.27	46.00	-15.60

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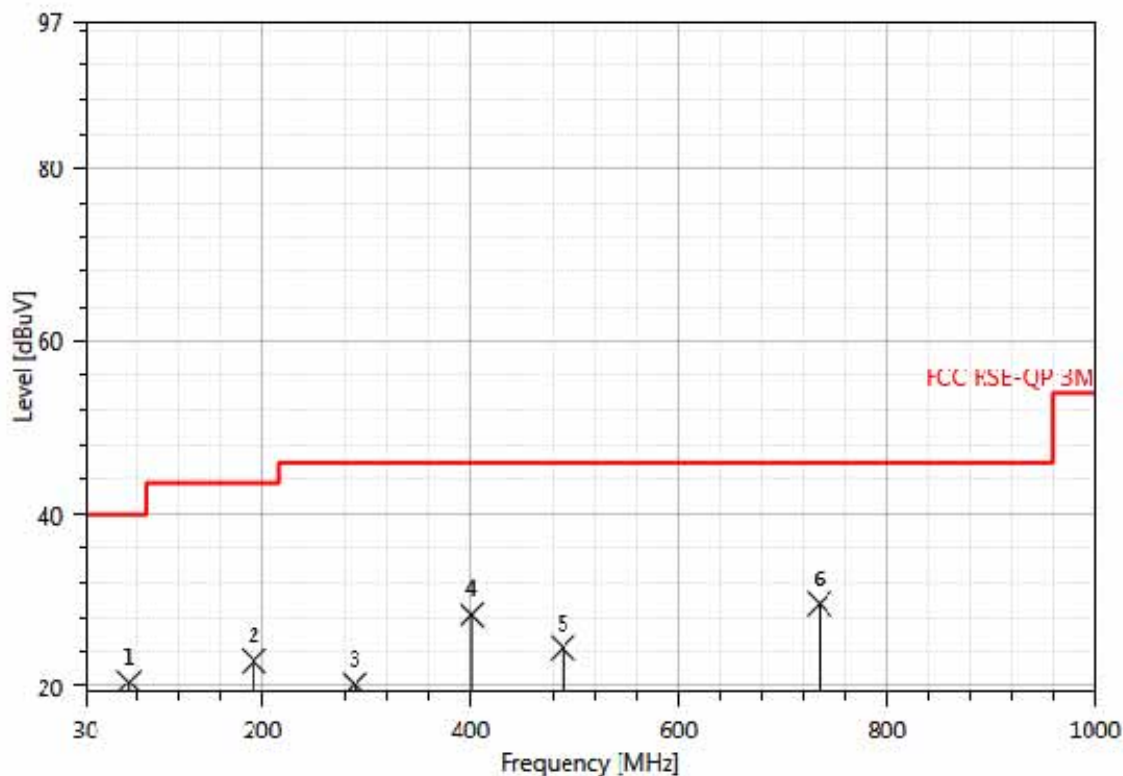
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Operation Mode : 802.11ac80B3 Test Date : 08/04/2016
 Fundamental Frequency : 5610 MHz Temp. / Humi. : 23 deg_C / 62 RH
 Operation Band : Tx CH HIGH Test Engineer : Tin
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
71.71	S	Peak	20.56	31.18	-10.62	40.00	-19.44
191.99	S	Peak	22.99	32.41	-9.42	43.50	-20.51
288.99	S	Peak	20.27	26.36	-6.08	46.00	-25.73
401.51	S	Peak	28.37	32.31	-3.95	46.00	-17.63
488.81	S	Peak	24.46	26.84	-2.38	46.00	-21.54
735.19	S	Peak	29.59	27.58	2.01	46.00	-16.41

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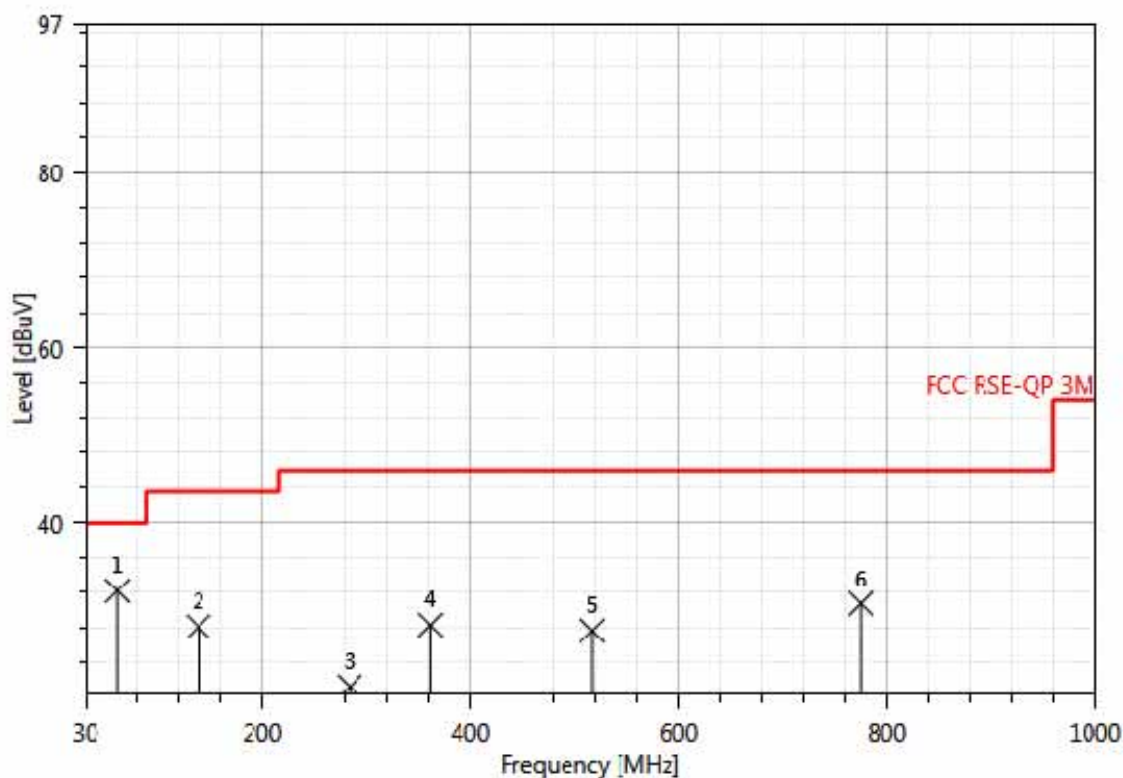
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802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	08/04/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS		@3m	
		QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
61.04	S	Peak	32.21	40.46	-8.25	40.00	-7.79
138.64	S	Peak	28.10	36.59	-8.49	43.50	-15.40
284.14	S	Peak	21.26	27.49	-6.23	46.00	-24.74
361.74	S	Peak	28.30	33.10	-4.80	46.00	-17.70
516.94	S	Peak	27.65	29.59	-1.94	46.00	-18.35
774.96	S	Peak	30.75	27.98	2.76	46.00	-15.25

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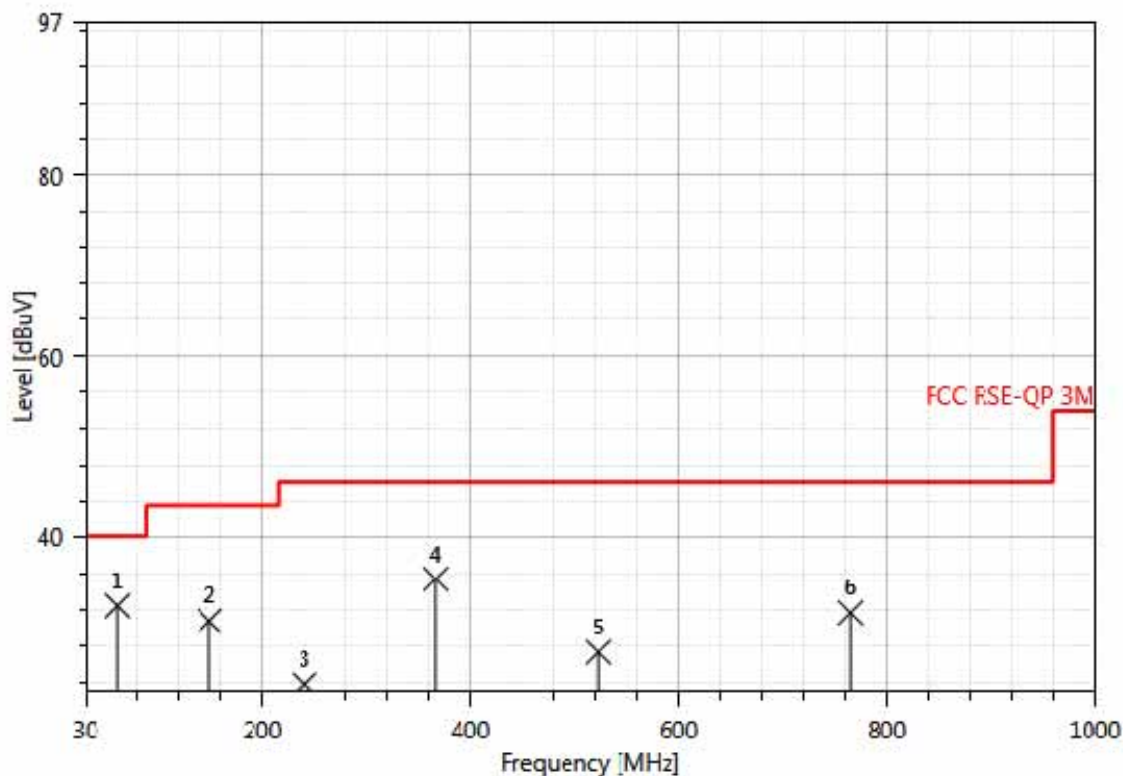
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Operation Mode : 802.11ac80B4 Test Date : 08/04/2016
Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	32.39	40.64	-8.25	40.00	-7.61
149.31	S	Peak	30.74	38.55	-7.82	43.50	-12.76
240.49	S	Peak	23.69	31.73	-8.03	46.00	-22.31
366.59	S	Peak	35.35	40.07	-4.72	46.00	-10.65
522.76	S	Peak	27.25	28.91	-1.66	46.00	-18.75
765.26	S	Peak	31.64	28.53	3.11	46.00	-14.36

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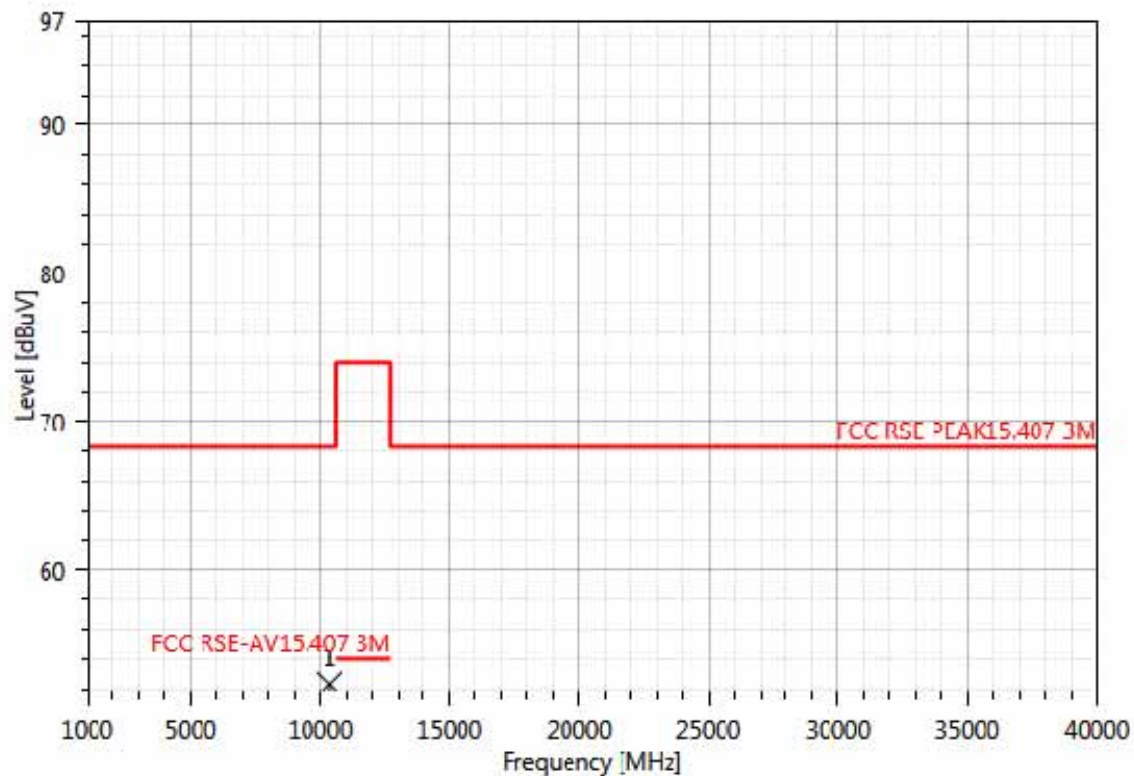
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11aB1	Test Date :	08/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10360.00	H	Peak	52.32	34.03	18.29	68.30	-15.98

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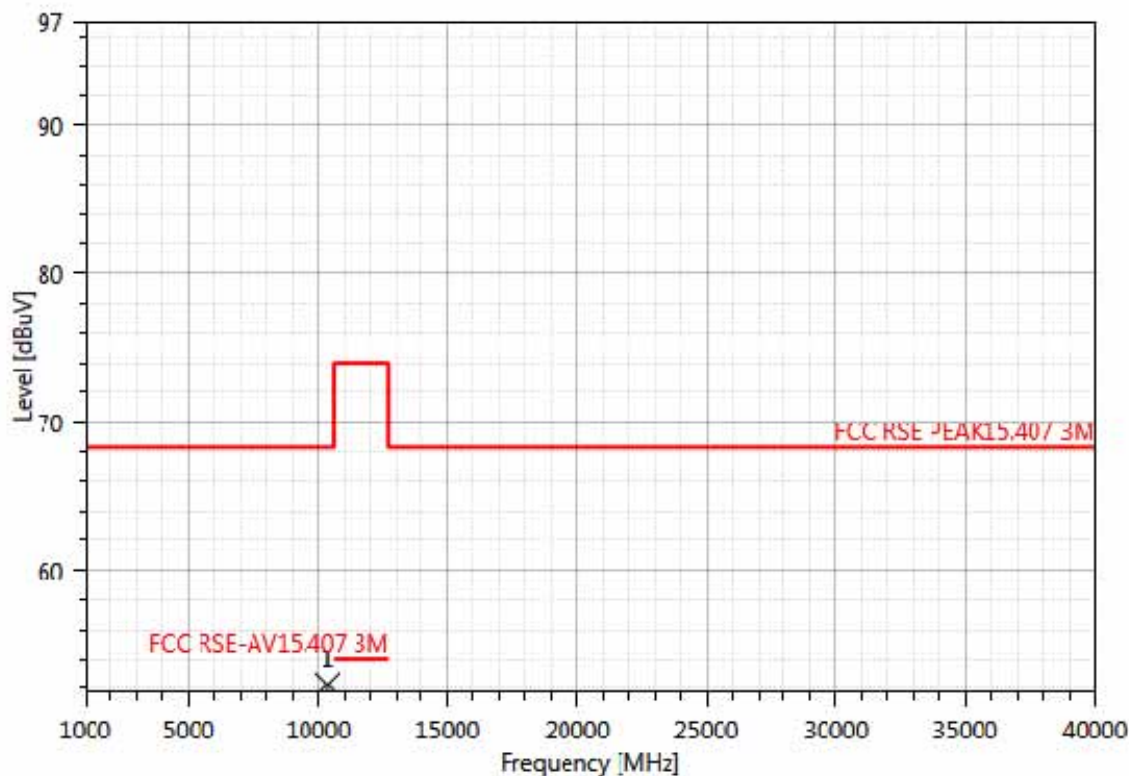
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Operation Mode :	802.11aB1	Test Date :	08/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10360.00	H	Peak	52.30	34.00	18.29	68.30	-16.00

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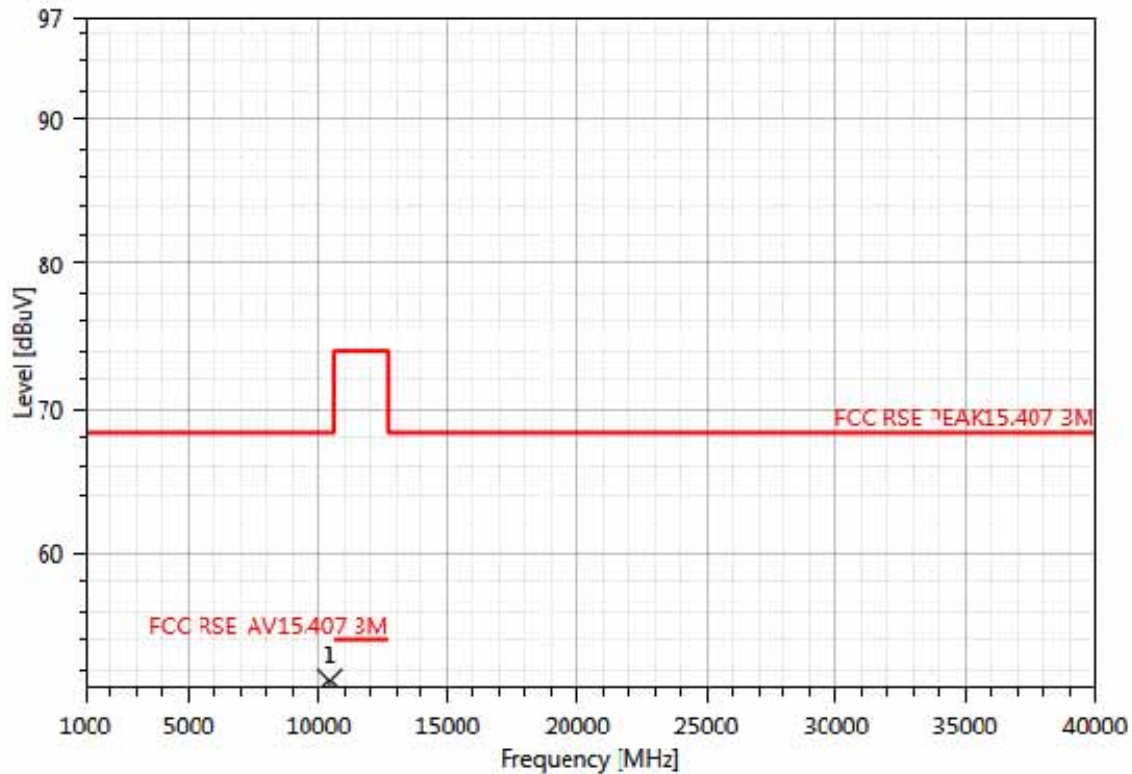
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Operation Mode :	802.11aB1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	51.22	32.54	18.68	68.30	-17.08

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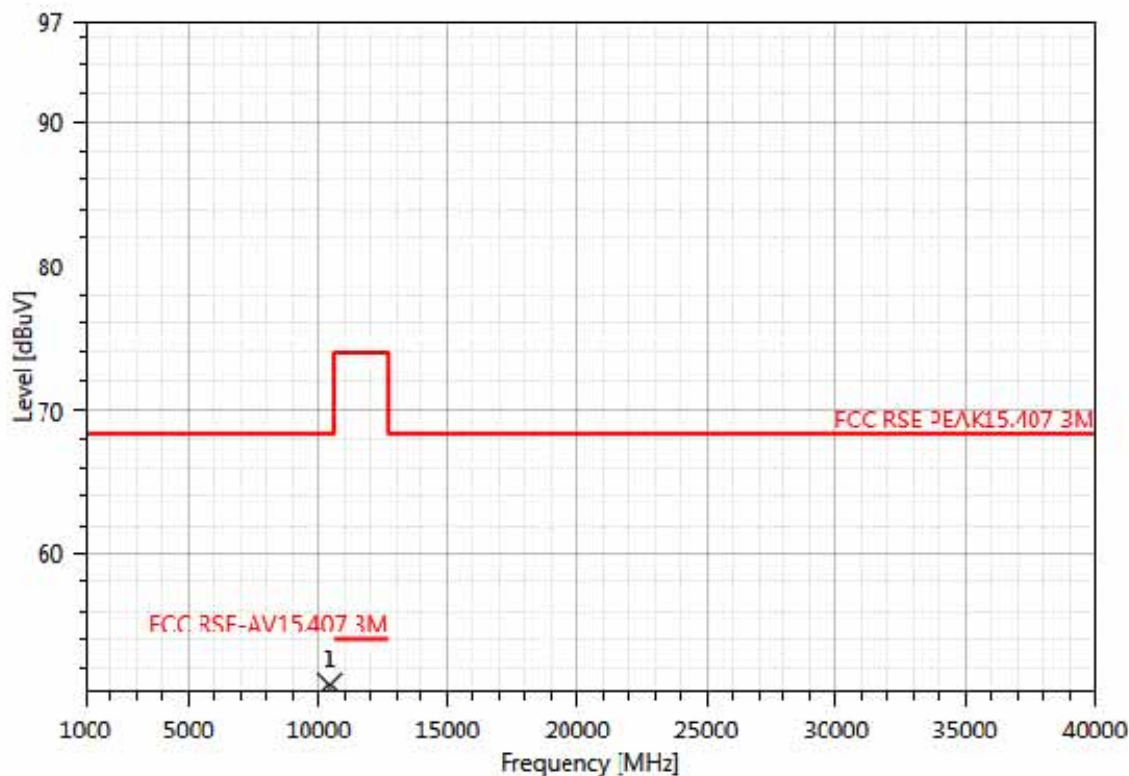
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Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	50.90	32.22	18.68	68.30	-17.40

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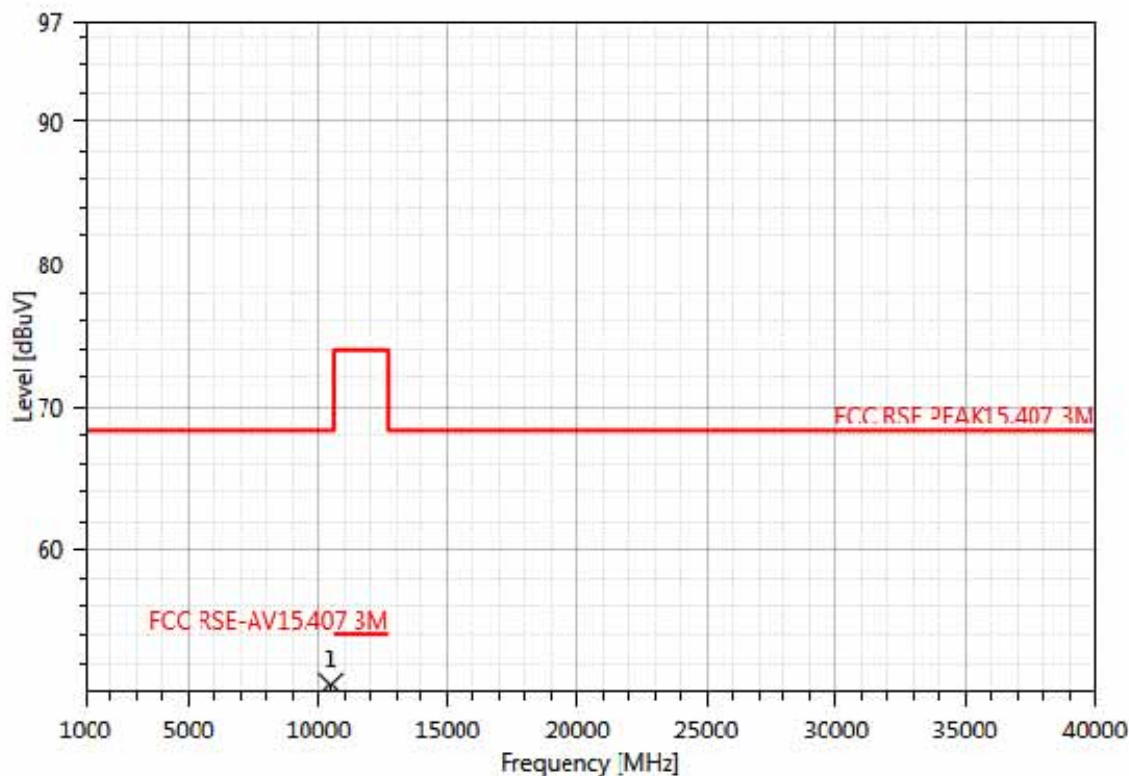
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Operation Mode :	802.11aB1	Test Date :	08/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10480.00	H	Peak	50.54	32.25	18.29	68.30	-17.76

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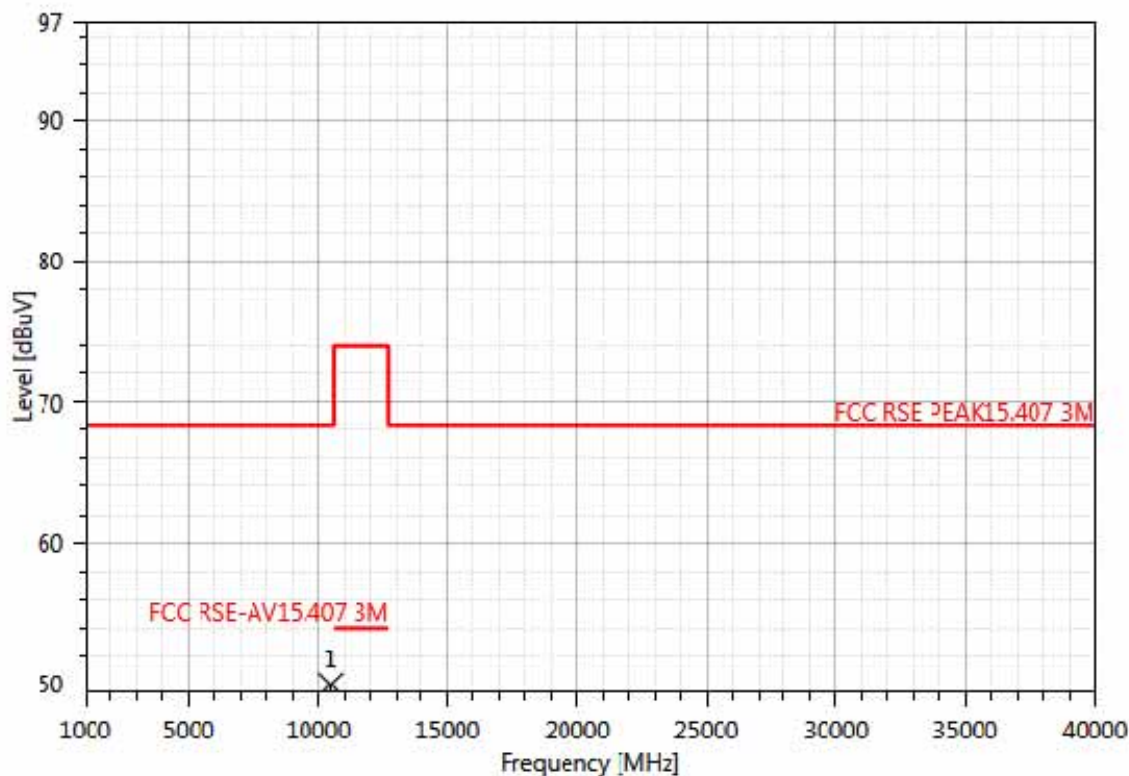
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Operation Mode :	802.11aB1	Test Date :	08/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10480.00	H	Peak	49.96	31.67	18.29	68.30	-18.34

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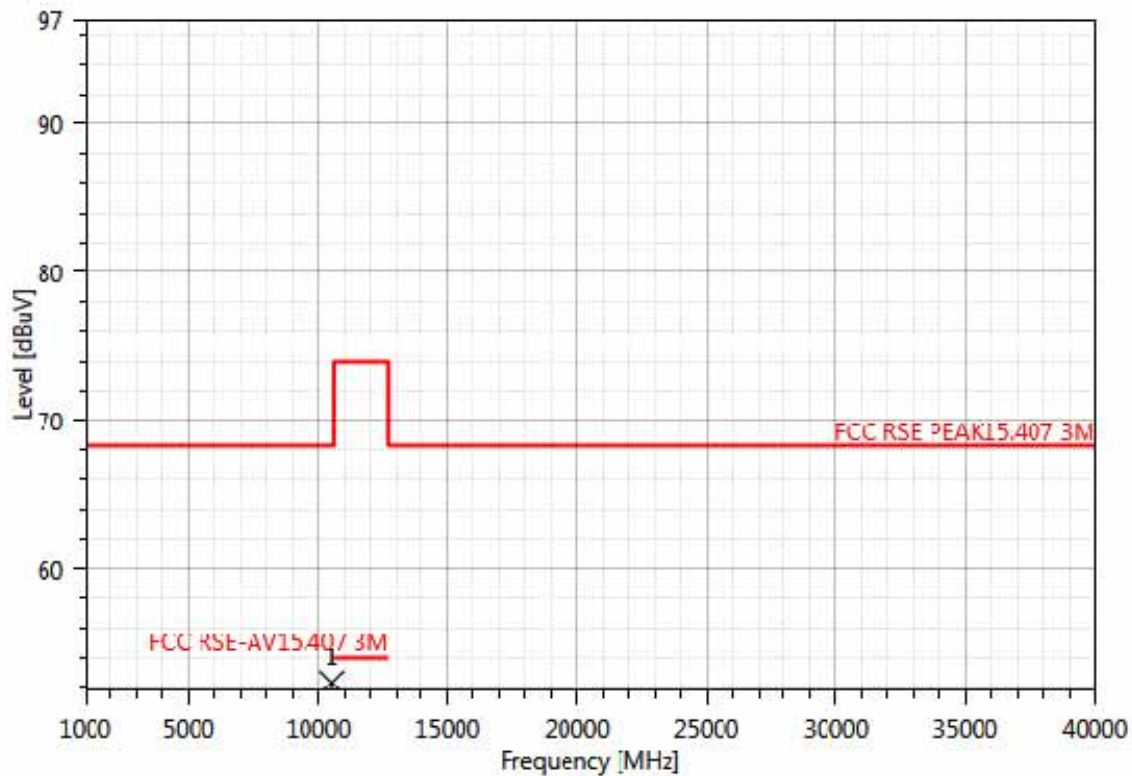
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	08/04/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10520.00	H	Peak	52.34	32.97	19.37	68.30	-15.96

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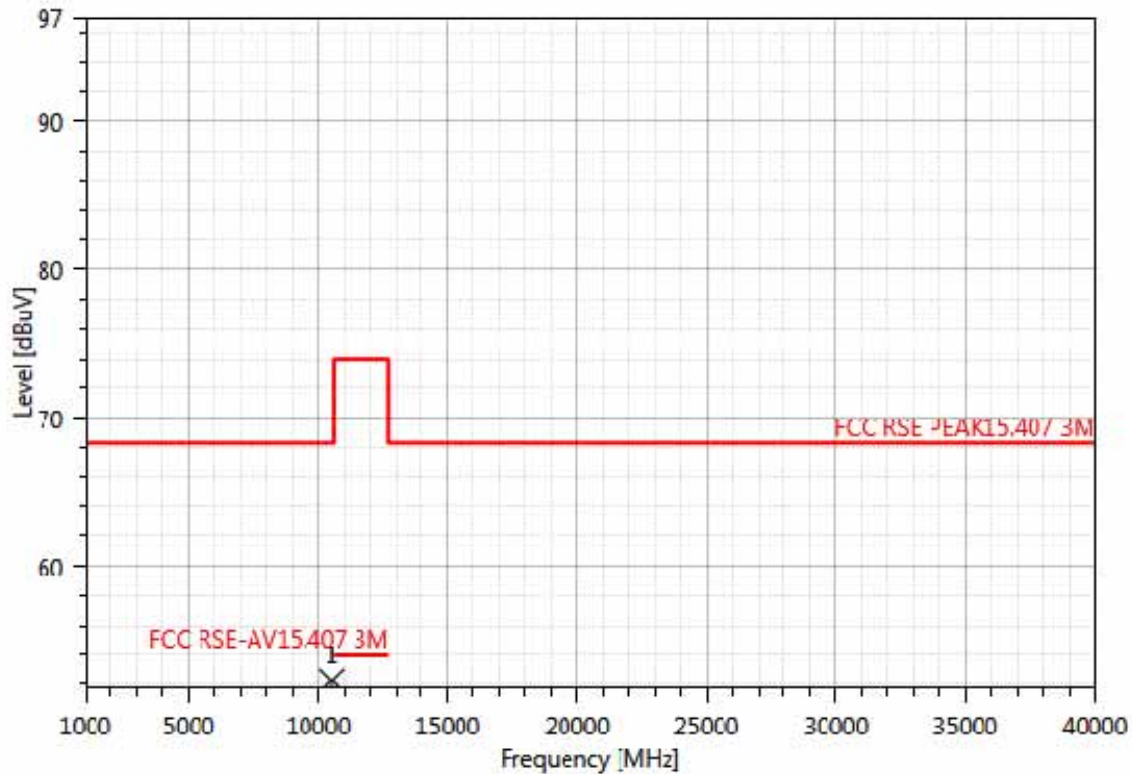
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Operation Mode :	802.11aB2	Test Date :	08/04/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m dBuV/m	dB
10520.00	H	QP/AV/PK Peak	52.27 dBμV/m	32.90 dBμV/m	19.37	68.30	-16.03

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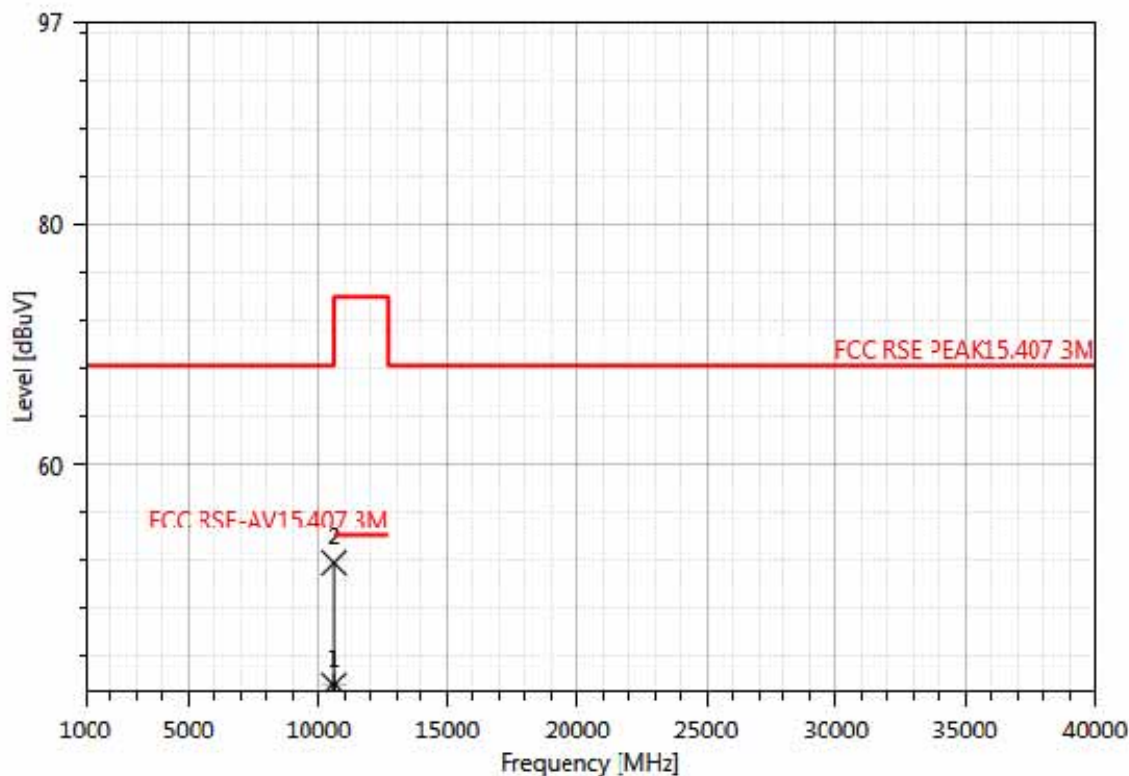
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Operation Mode :	802.11aB2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
10600.00	H	Average	41.56	22.65	18.91	54.00	-12.44
10600.00	H	Peak	51.75	32.85	18.91	74.00	-22.25

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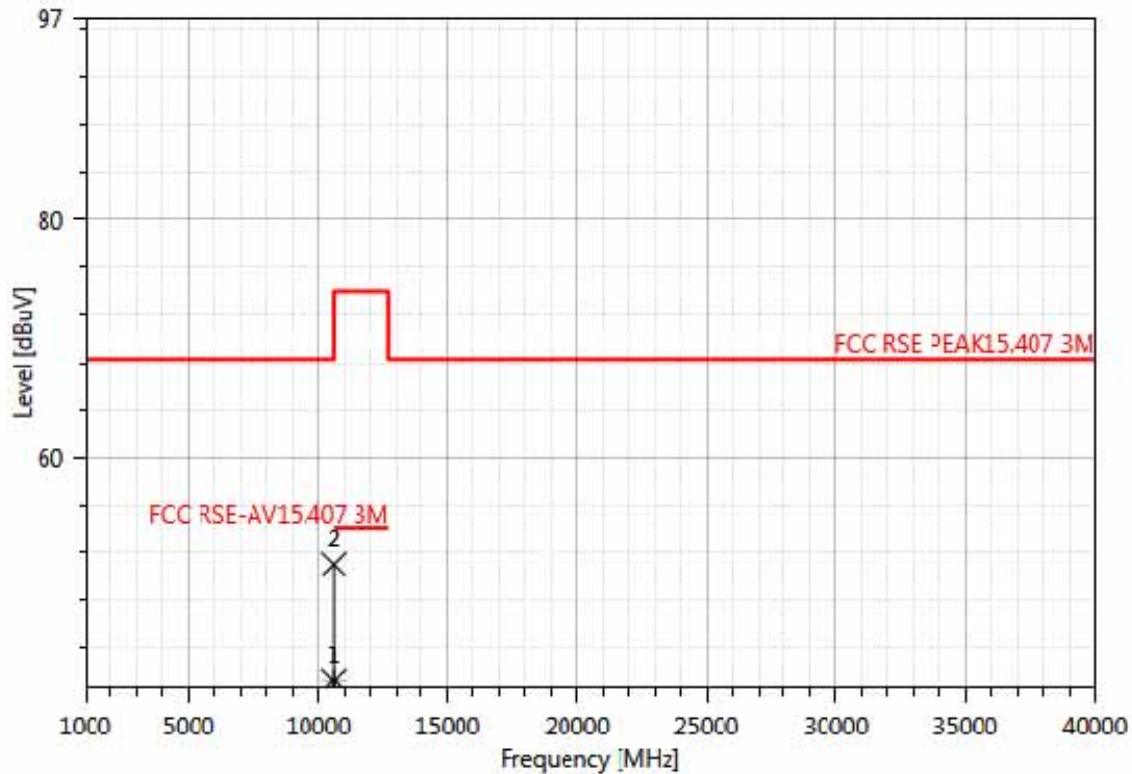
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Operation Mode :	802.11aB2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10600.00	H	Average	41.26	22.35	18.91	54.00	-12.74
10600.00	H	Peak	51.04	32.13	18.91	74.00	-22.96

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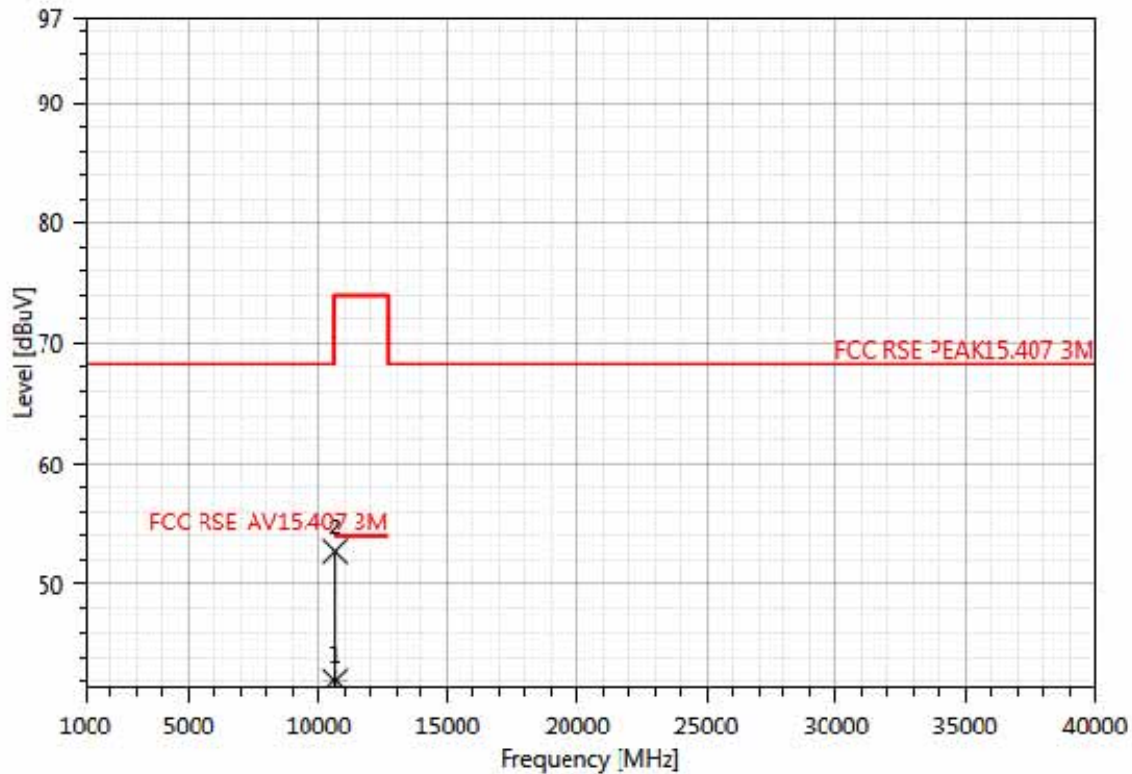
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Operation Mode :	802.11aB2	Test Date :	08/04/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10640.00	H	Average	42.06	22.88	19.18	54.00	-11.94
10640.00	H	Peak	52.76	33.57	19.18	74.00	-21.24

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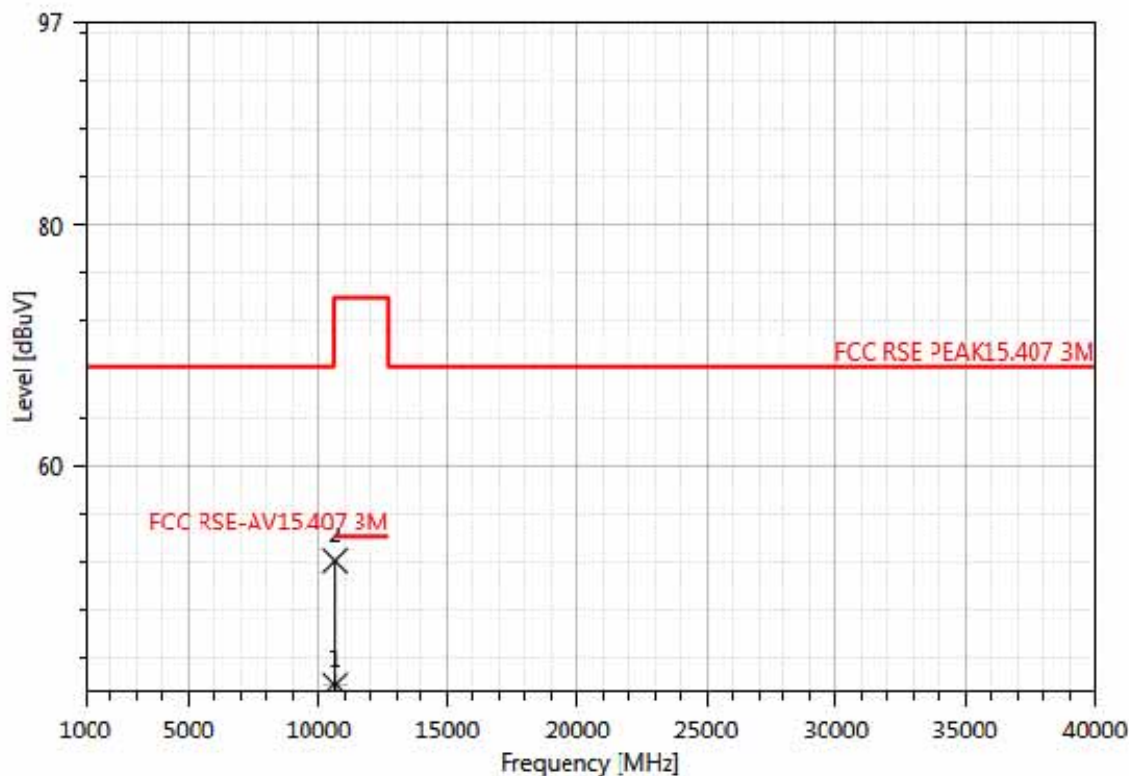
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Operation Mode :	802.11aB2	Test Date :	08/04/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
10640.00	H	Average	41.72	22.54	19.18	54.00	-12.28
10640.00	H	Peak	52.06	32.87	19.18	74.00	-21.94

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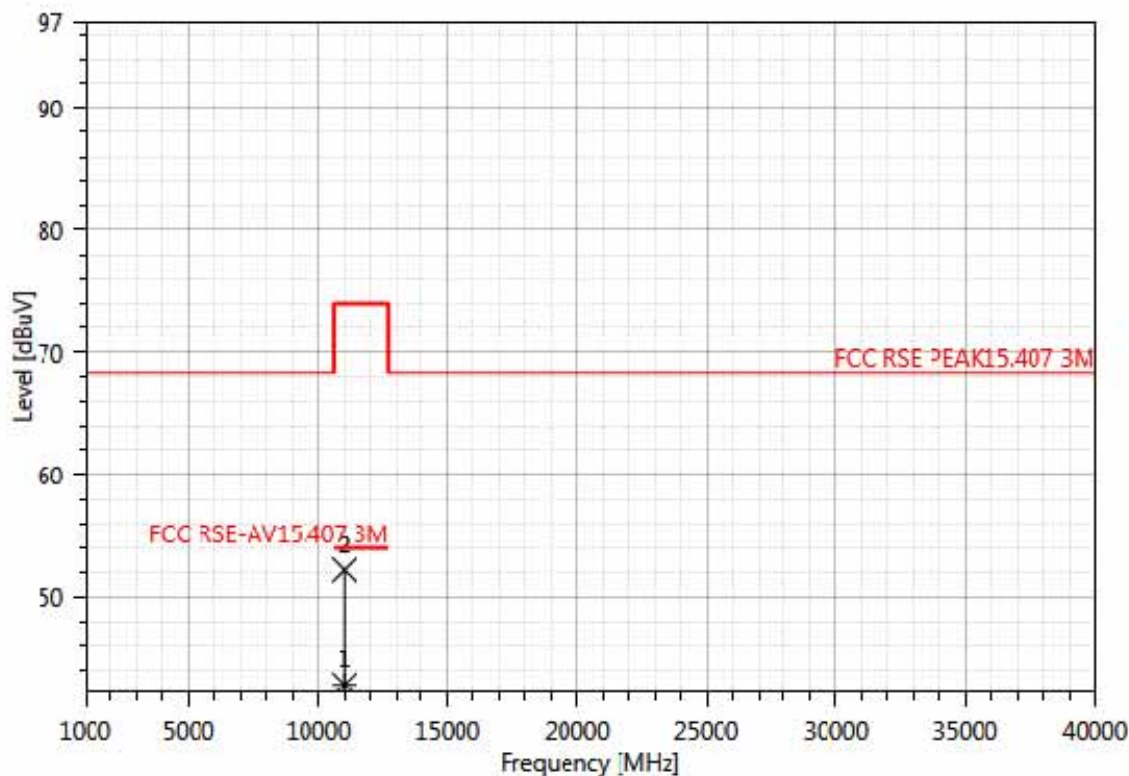
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	08/04/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11000.00	H	Average	42.85	22.68	20.17	54.00	-11.15
11000.00	H	Peak	52.25	32.09	20.17	74.00	-21.75

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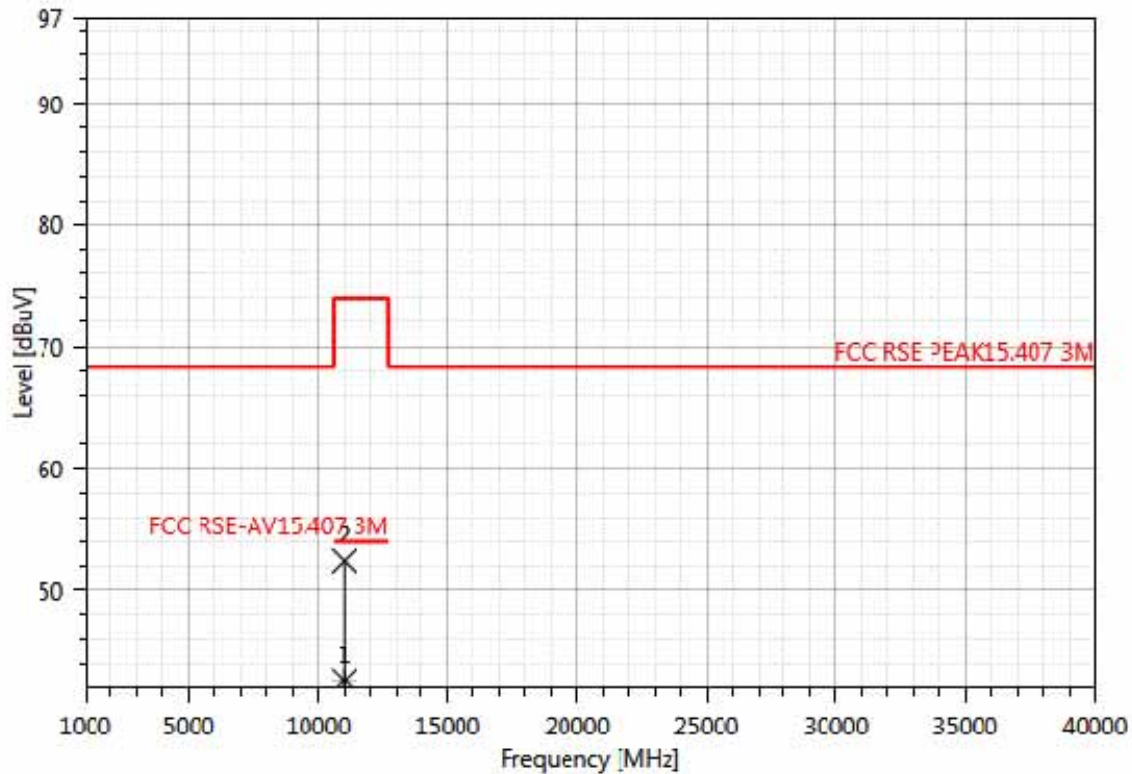
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Operation Mode :	802.11aB3	Test Date :	08/04/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11000.00	H	Average	42.61	22.44	20.17	54.00	-11.39
11000.00	H	Peak	52.45	32.28	20.17	74.00	-21.55

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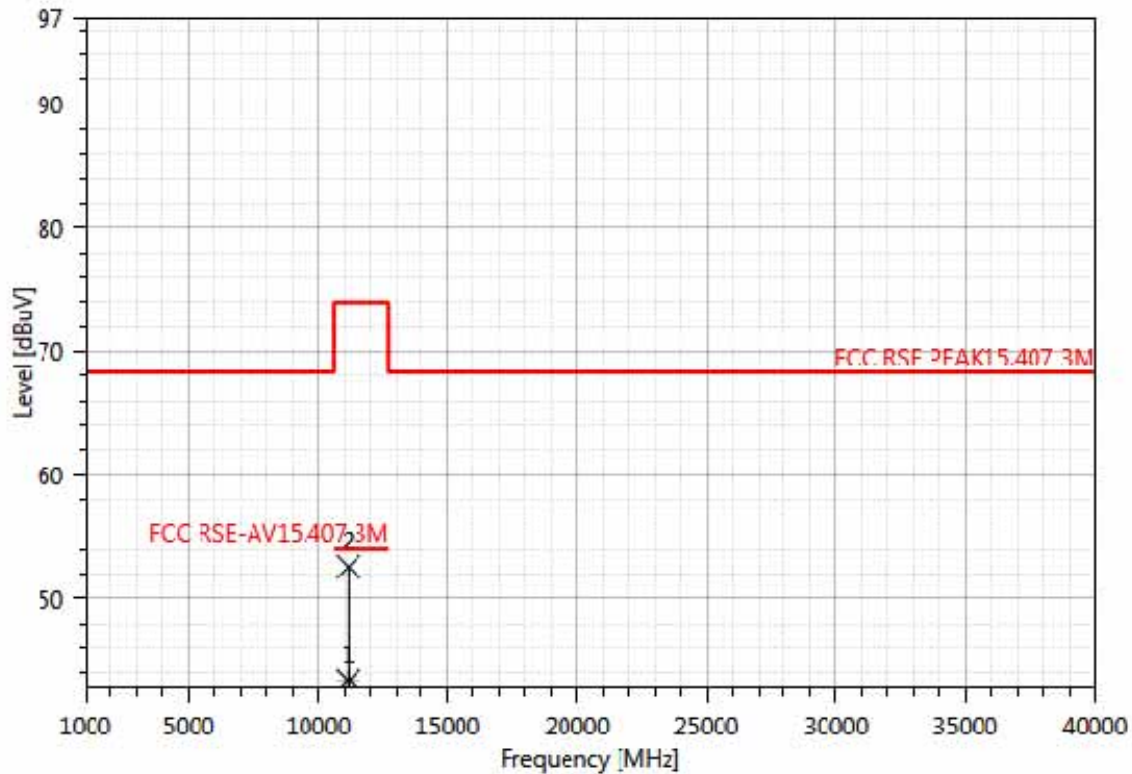
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Operation Mode :	802.11aB3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11 160.00	H	Average	43.36	22.91	20.45	54.00	-10.64
11 160.00	H	Peak	52.57	32.12	20.45	74.00	-21.43

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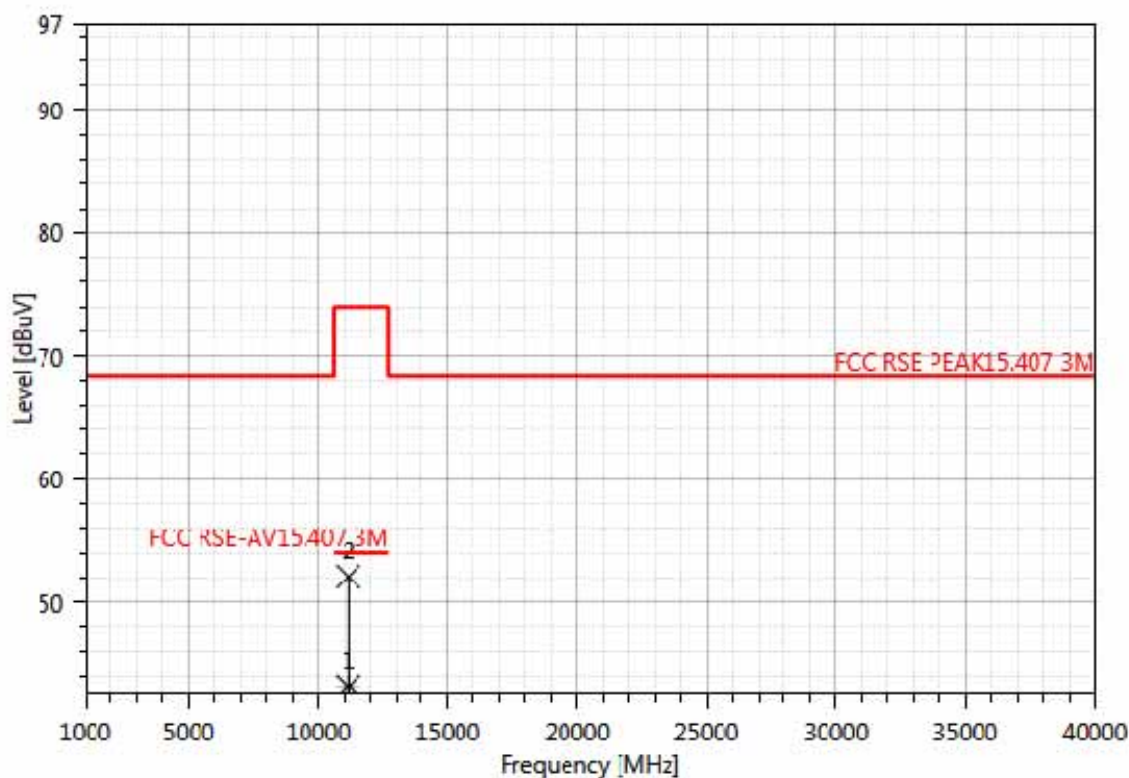
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Operation Mode : 802.11aB3
 Fundamental Frequency : 5580 MHz
 Operation Band : Tx CH MID
 EUT Pol. : H Plane

Test Date : 08/04/2016
 Temp. / Humi. : 23 deg_C / 62 RH
 Test Engineer : Tin
 Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11160.00	H	Average	43.16	22.71	20.45	54.00	-10.84
11160.00	H	Peak	52.08	31.63	20.45	74.00	-21.92

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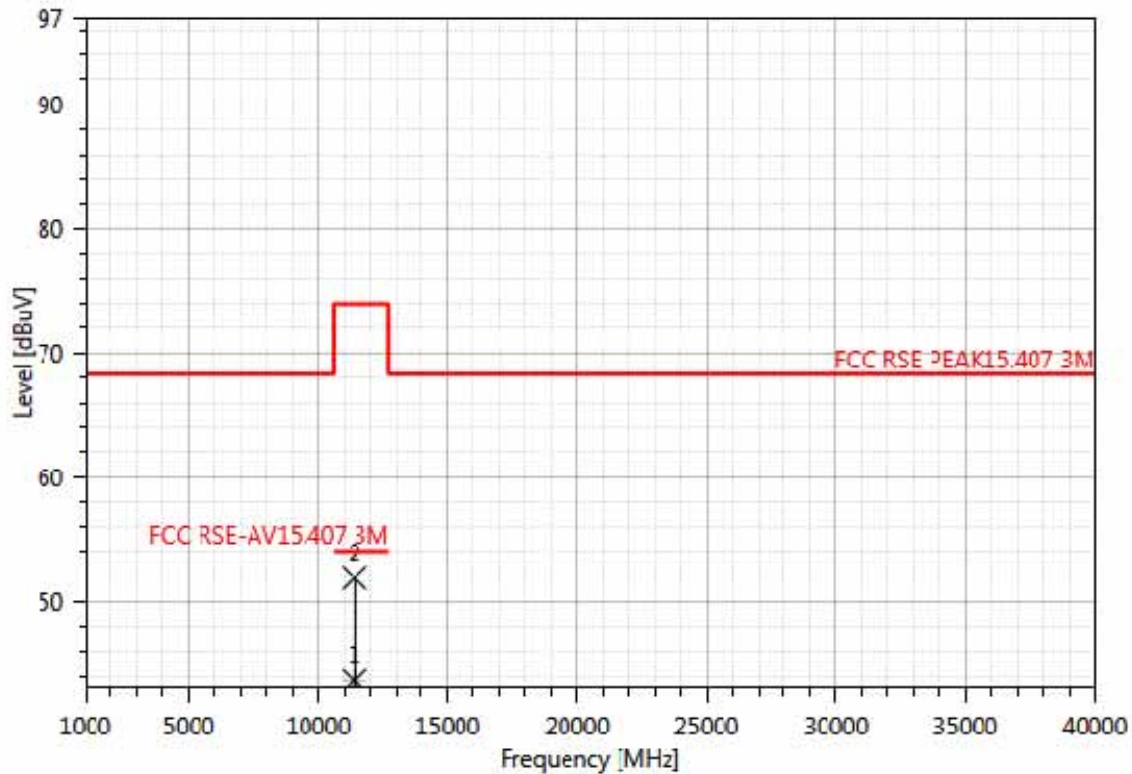
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Operation Mode :	802.11aB3	Test Date :	08/04/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11400.00	H	Average	43.64	23.08	20.56	54.00	-10.36
11400.00	H	Peak	51.91	31.35	20.56	74.00	-22.09

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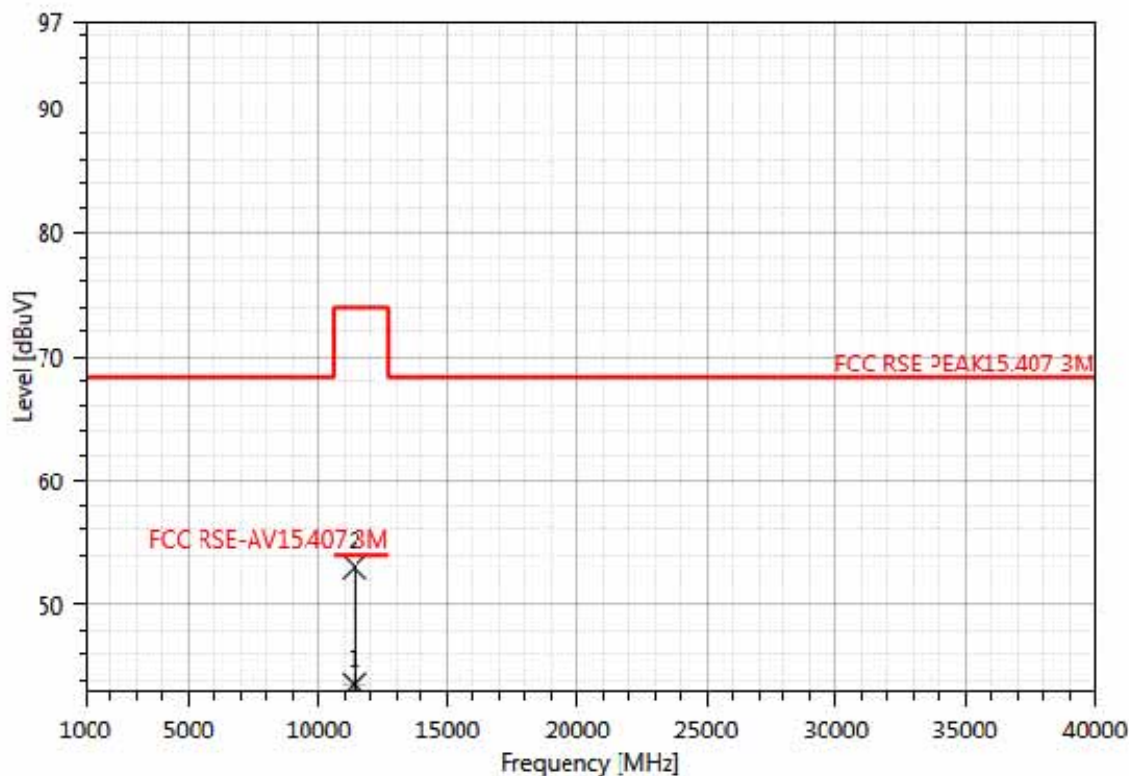
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Operation Mode :	802.11aB3	Test Date :	08/04/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11400.00	H	Average	43.58	23.02	20.56	54.00	-10.42
11400.00	H	Peak	53.09	32.53	20.56	74.00	-20.91

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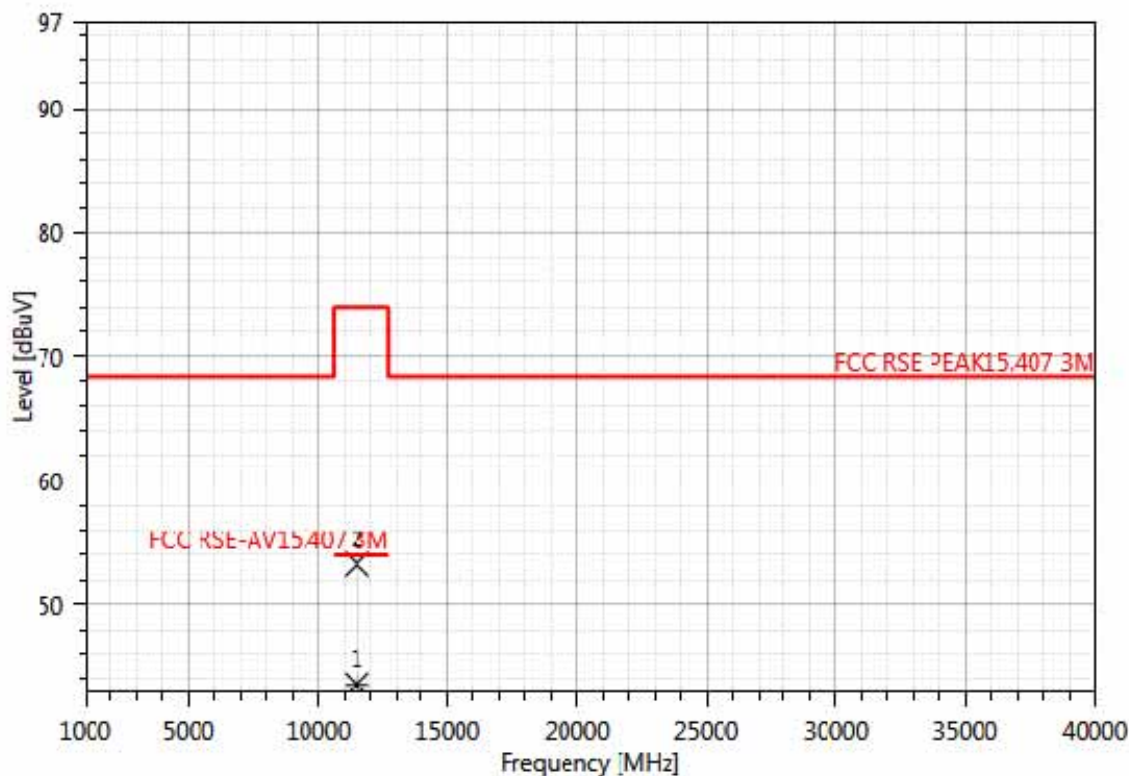
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	08/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11490.00	H	Average	43.53	23.11	20.42	54.00	-10.47
11490.00	H	Peak	53.28	32.86	20.42	74.00	-20.72

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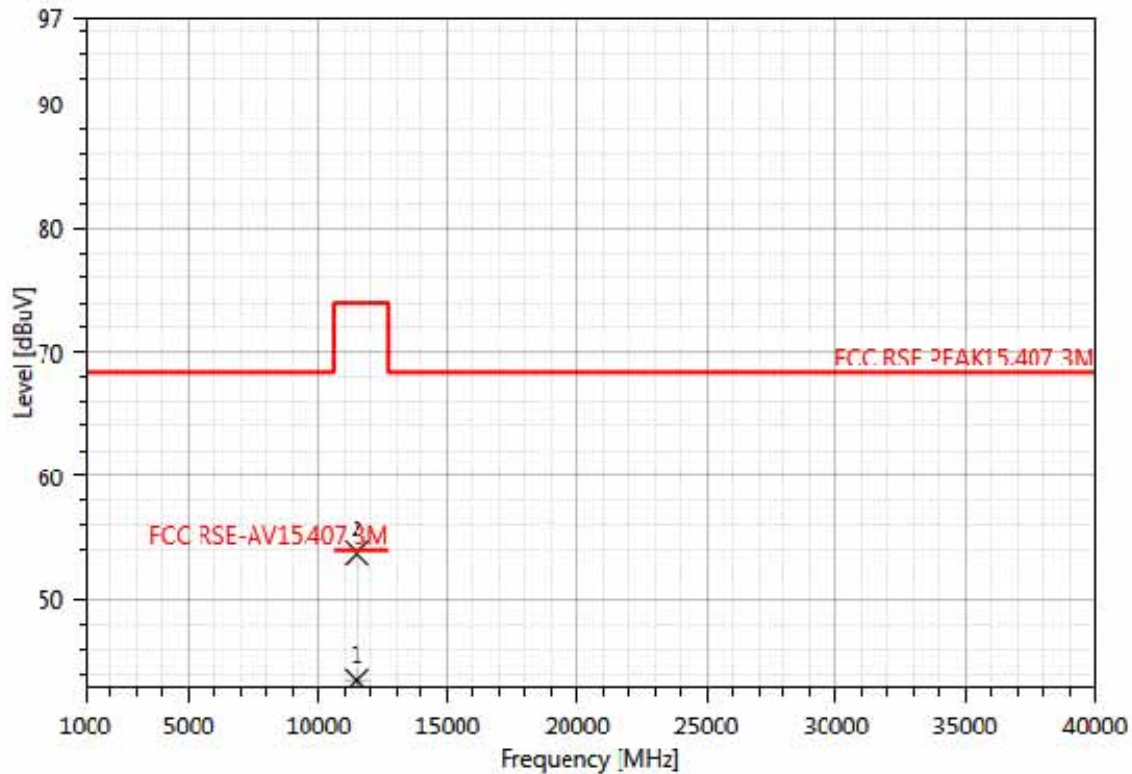
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Operation Mode :	802.11aB4	Test Date :	08/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11490.00	H	Average	43.48	23.06	20.42	54.00	-10.52
11490.00	H	Peak	53.78	33.36	20.42	74.00	-20.22

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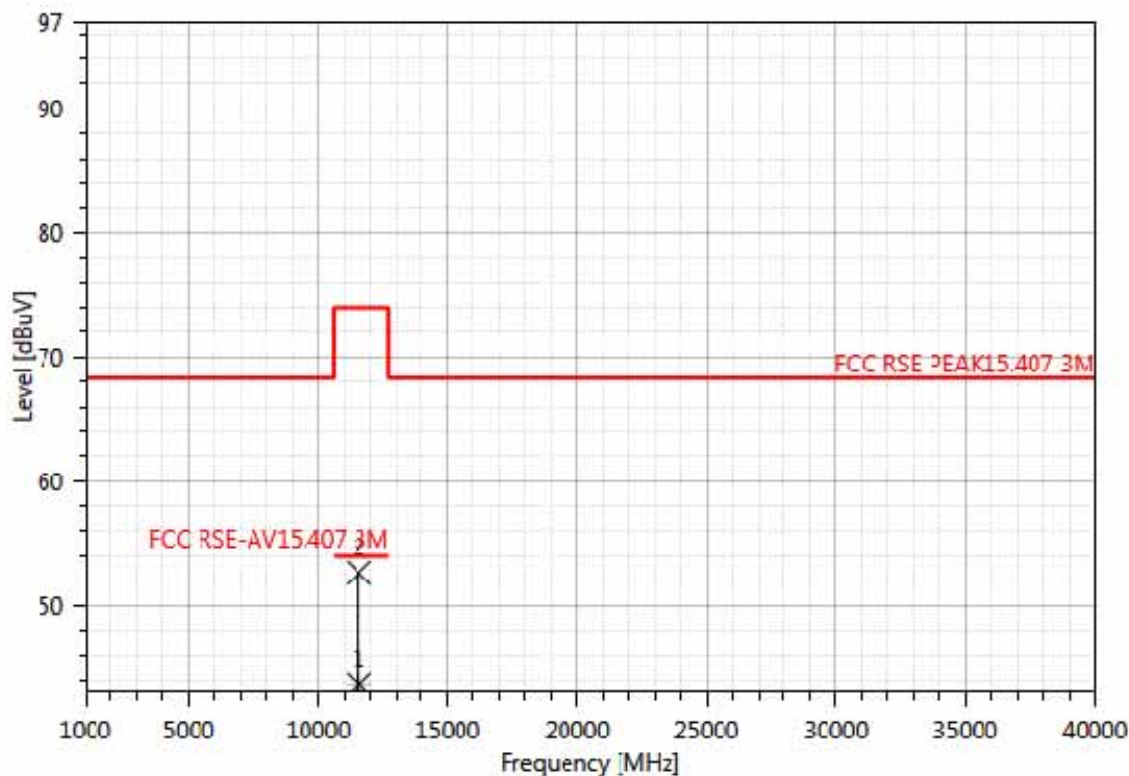
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Operation Mode :	802.11aB4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11570.00	H	Average	43.64	23.05	20.59	54.00	-10.36
11570.00	H	Peak	52.63	32.04	20.59	74.00	-21.37

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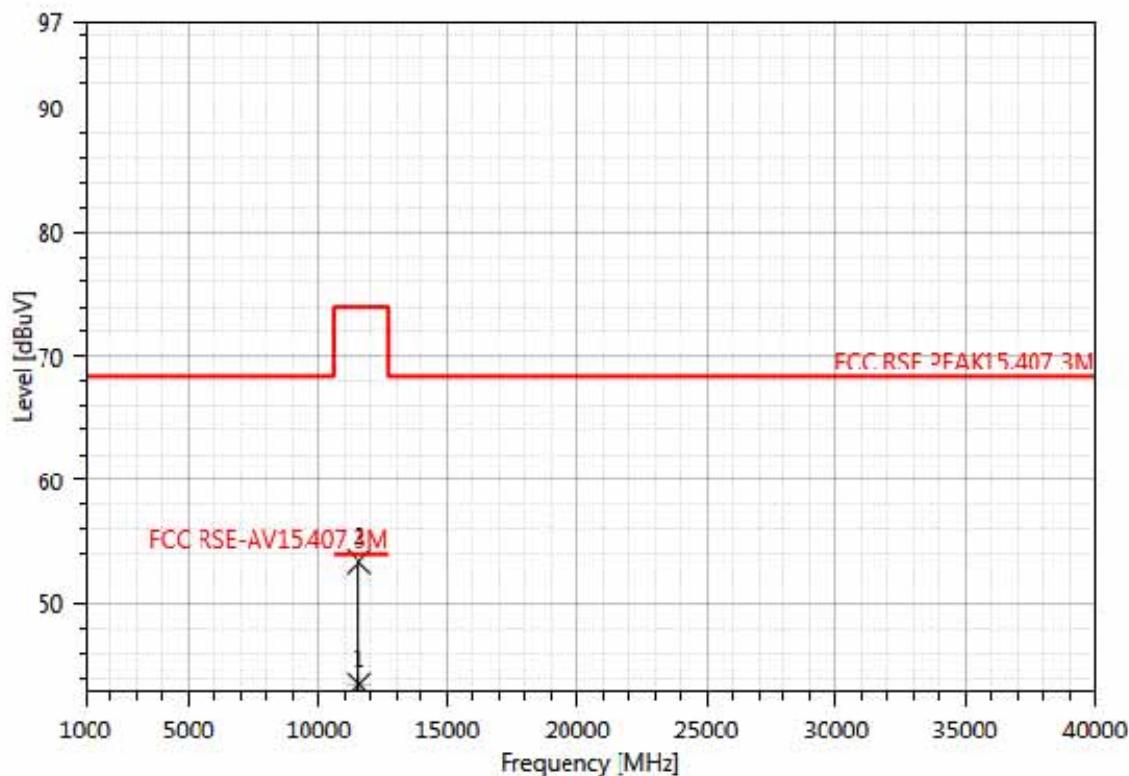
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Operation Mode :	802.11aB4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11570.00	H	Average	43.48	22.89	20.59	54.00	-10.52
11570.00	H	Peak	53.40	32.82	20.59	74.00	-20.60

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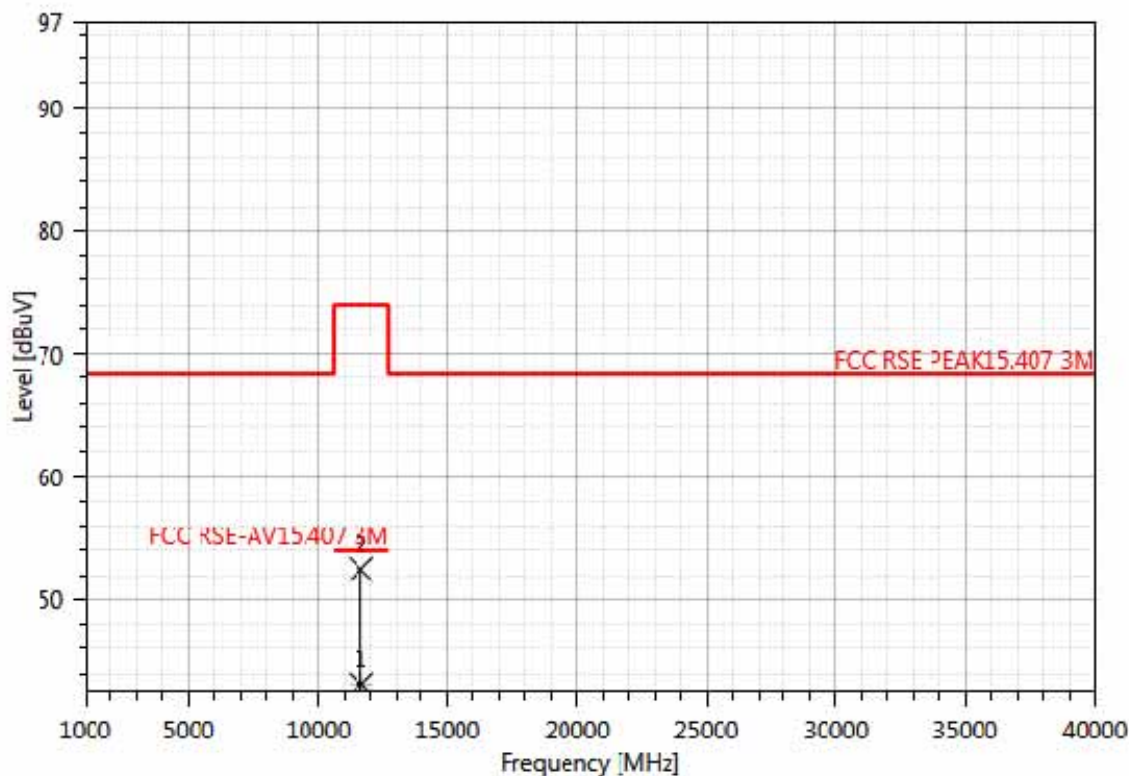
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Operation Mode :	802.11aB4	Test Date :	08/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11650.00	H	Average	43.11	22.68	20.43	54.00	-10.89
11650.00	H	Peak	52.49	32.06	20.43	74.00	-21.51

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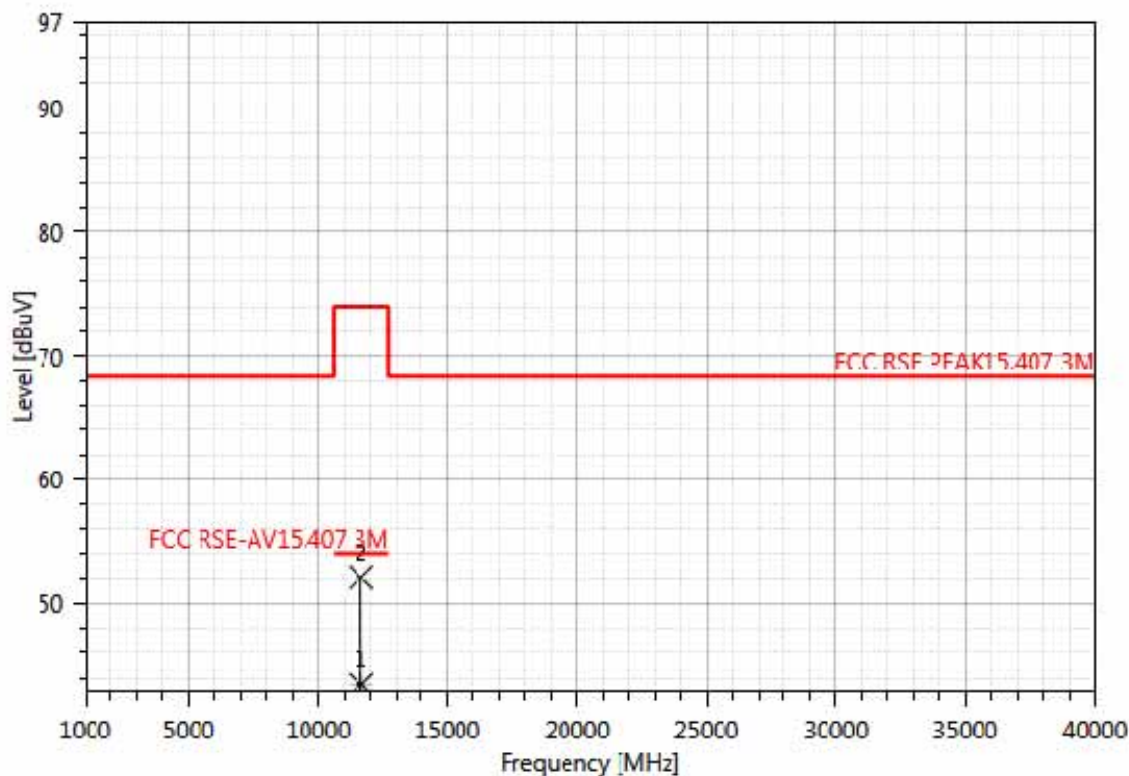
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Operation Mode :	802.11aB4	Test Date :	08/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11650.00	H	Average	43.45	23.01	20.43	54.00	-10.55
11650.00	H	Peak	52.09	31.66	20.43	74.00	-21.91

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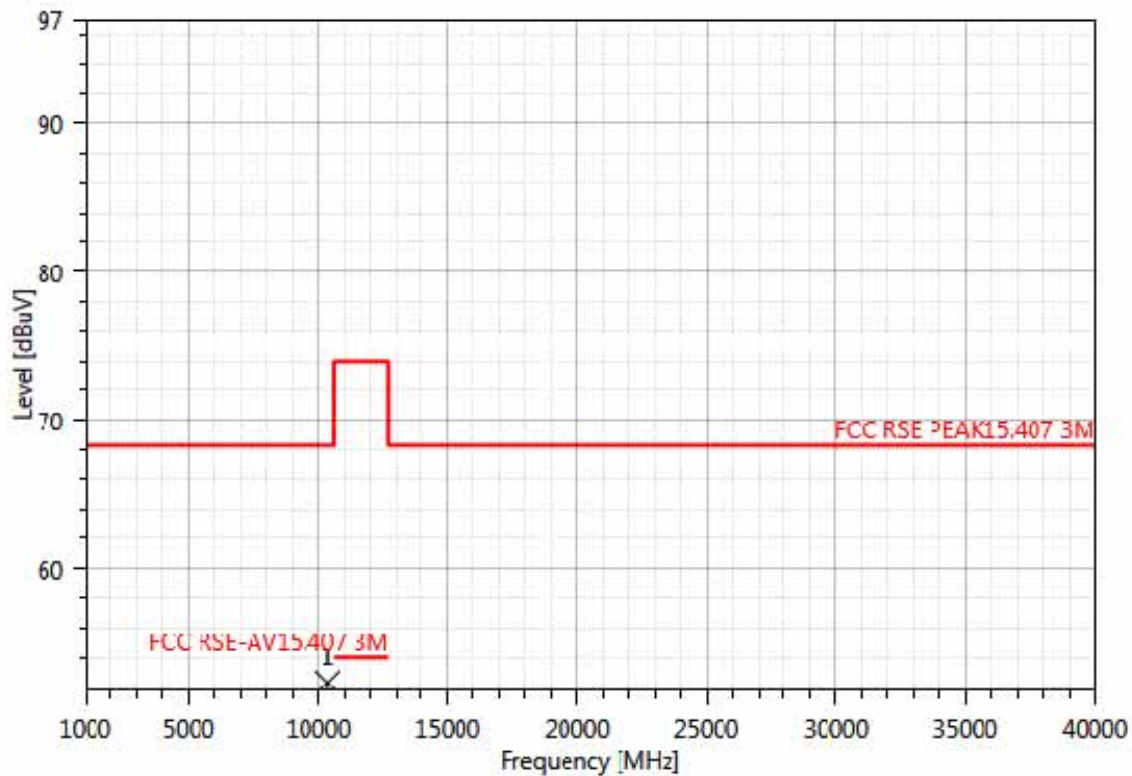
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10360.00	H	QP/AV/PK	52.31	34.01	18.29	68.30	-15.99

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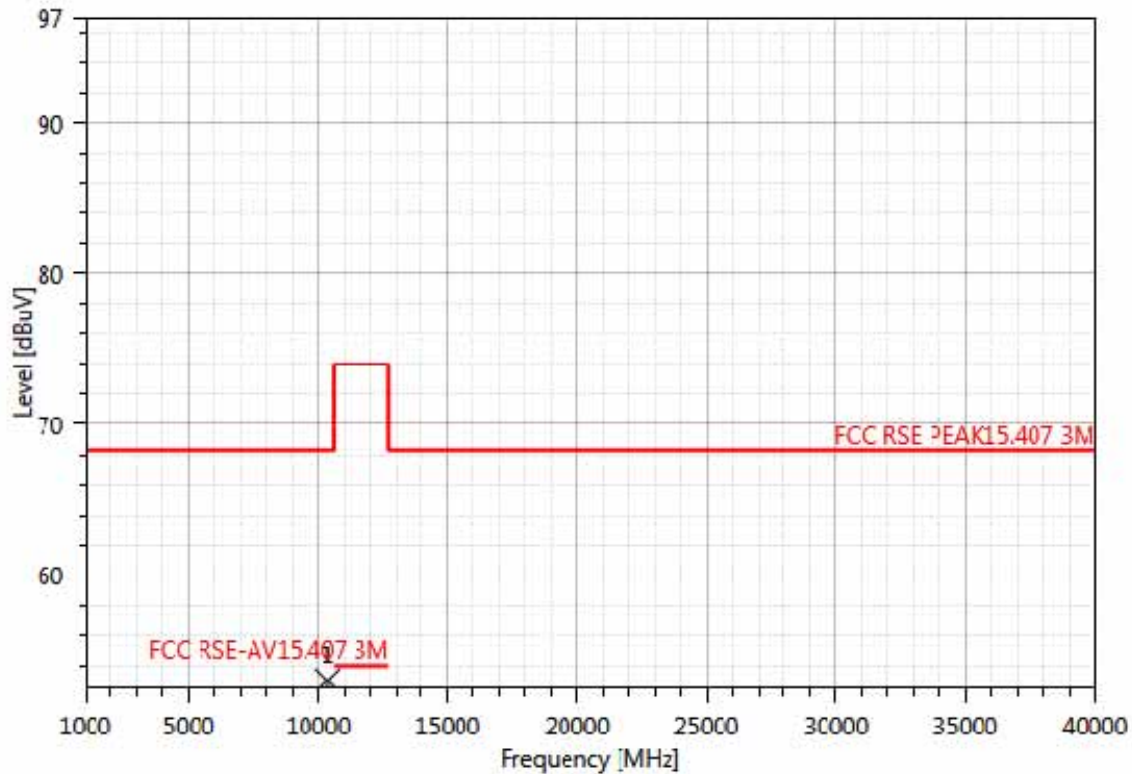
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Operation Mode :	802.11n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10360.00	H	Peak	53.01	34.72	18.29	68.30	-15.29

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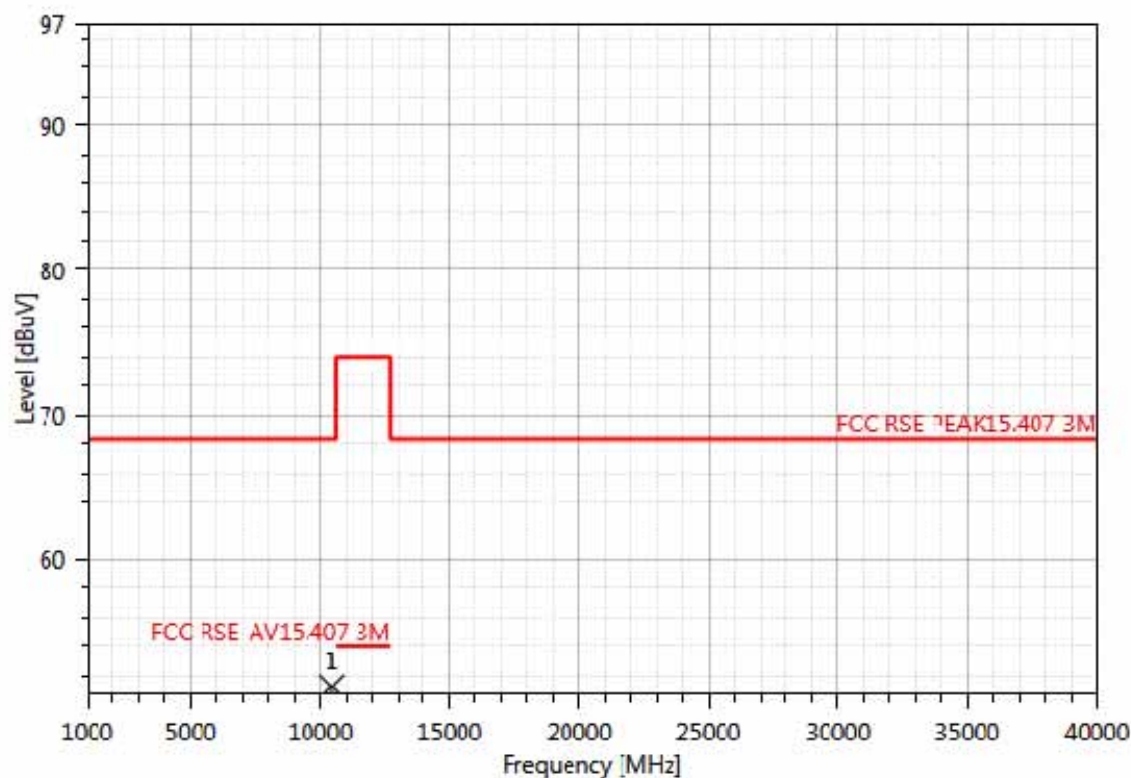
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Operation Mode : 802.11n20B1
 Fundamental Frequency : 5220 MHz
 Operation Band : Tx CH MID
 EUT Pol. : H Plane

Test Date : 08/04/2016
 Temp. / Humi. : 23 deg_C / 62 RH
 Test Engineer : Tin
 Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	51.25	32.56	18.68	68.30	-17.05

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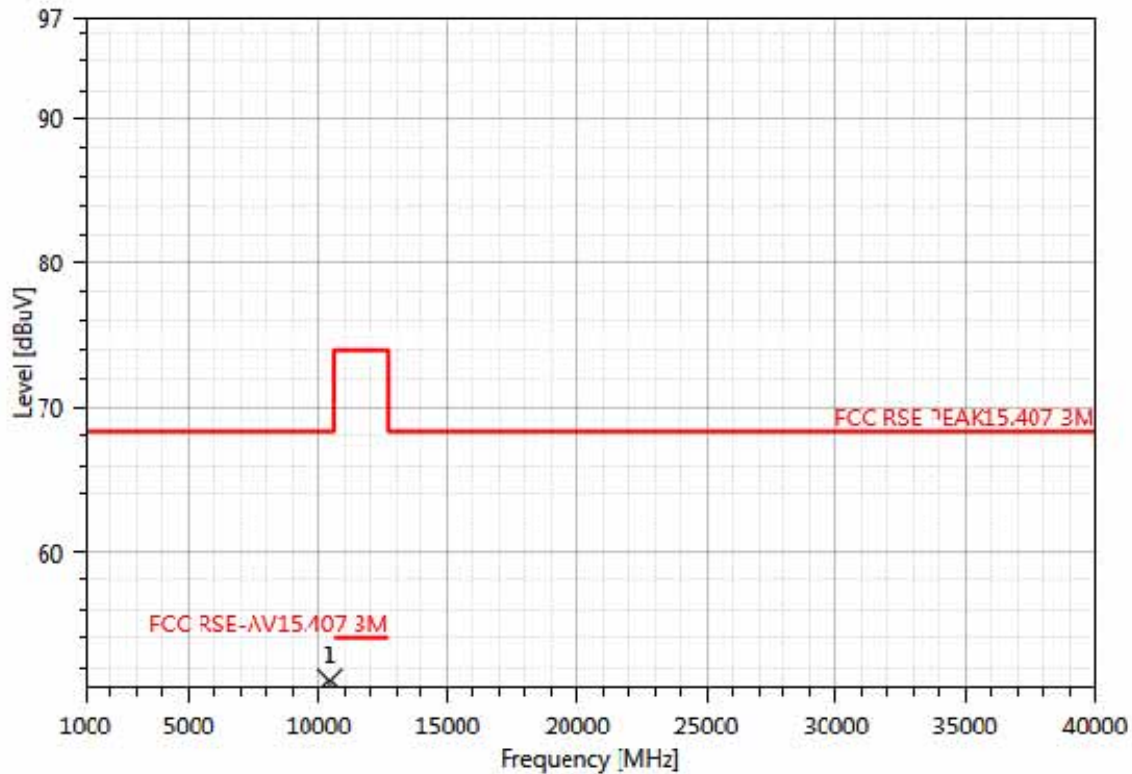
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Operation Mode :	802.11n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10440.00	H	Peak	51.09	32.41	18.68	68.30	-17.21

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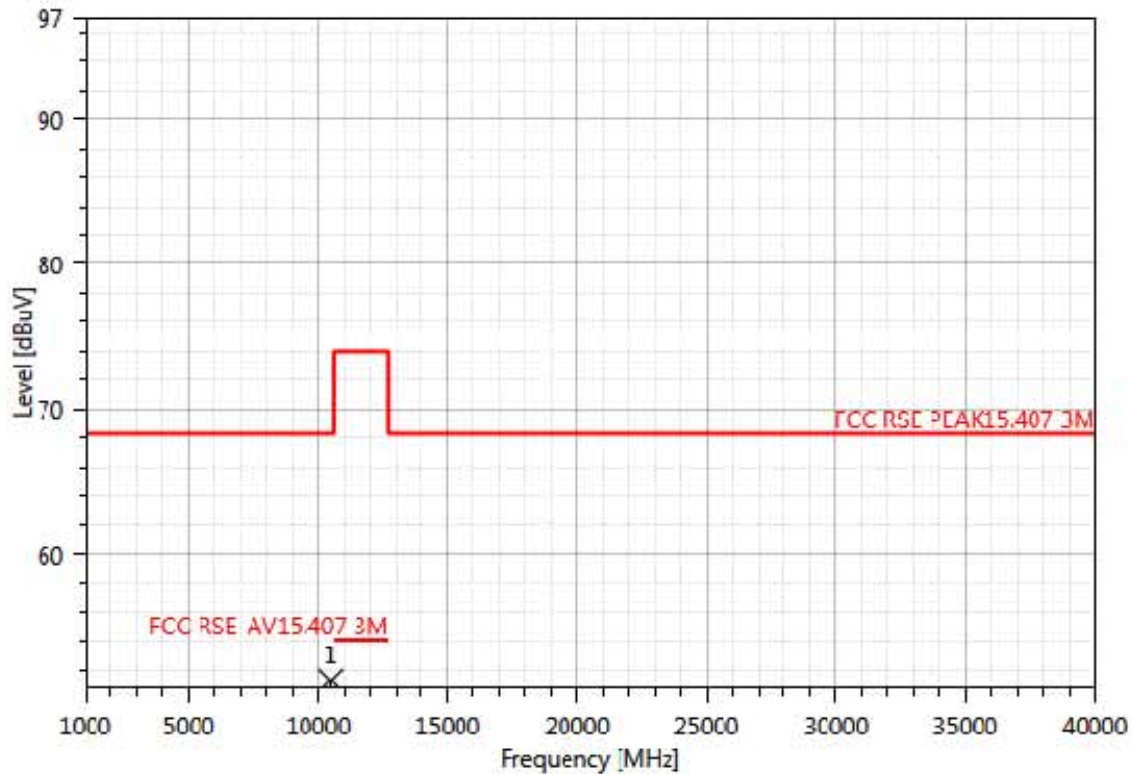
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Operation Mode :	802.11n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10480.00	H	Peak	51.28	32.98	18.29	68.30	-17.02

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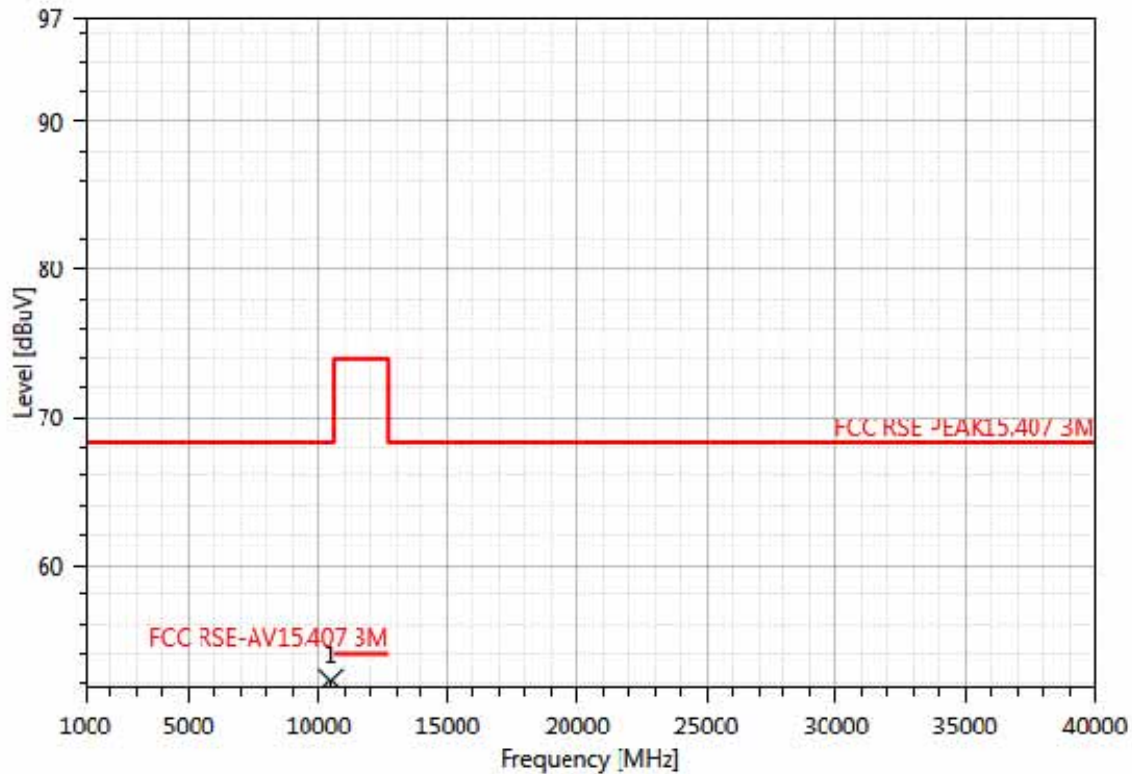
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Operation Mode :	802.11n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10480.00	H	Peak	52.21	33.92	18.29	68.30	-16.09

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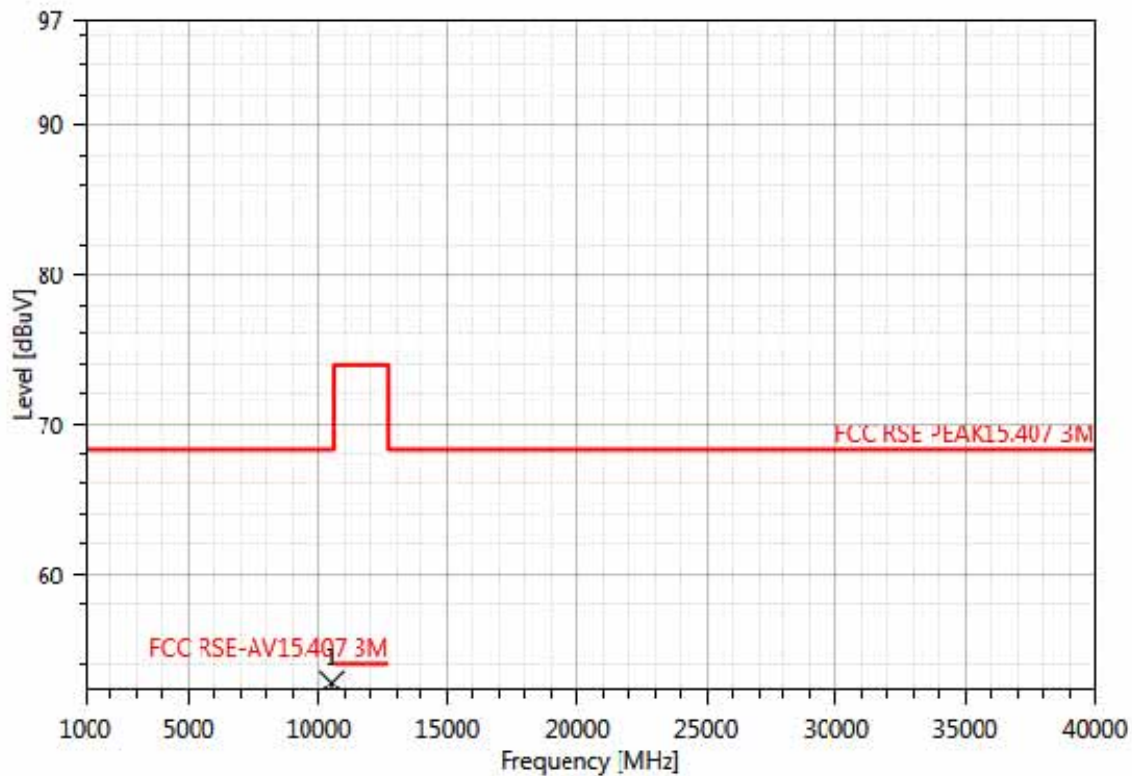
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10520.00	H	Peak	52.76	33.38	19.37	68.30	-15.54

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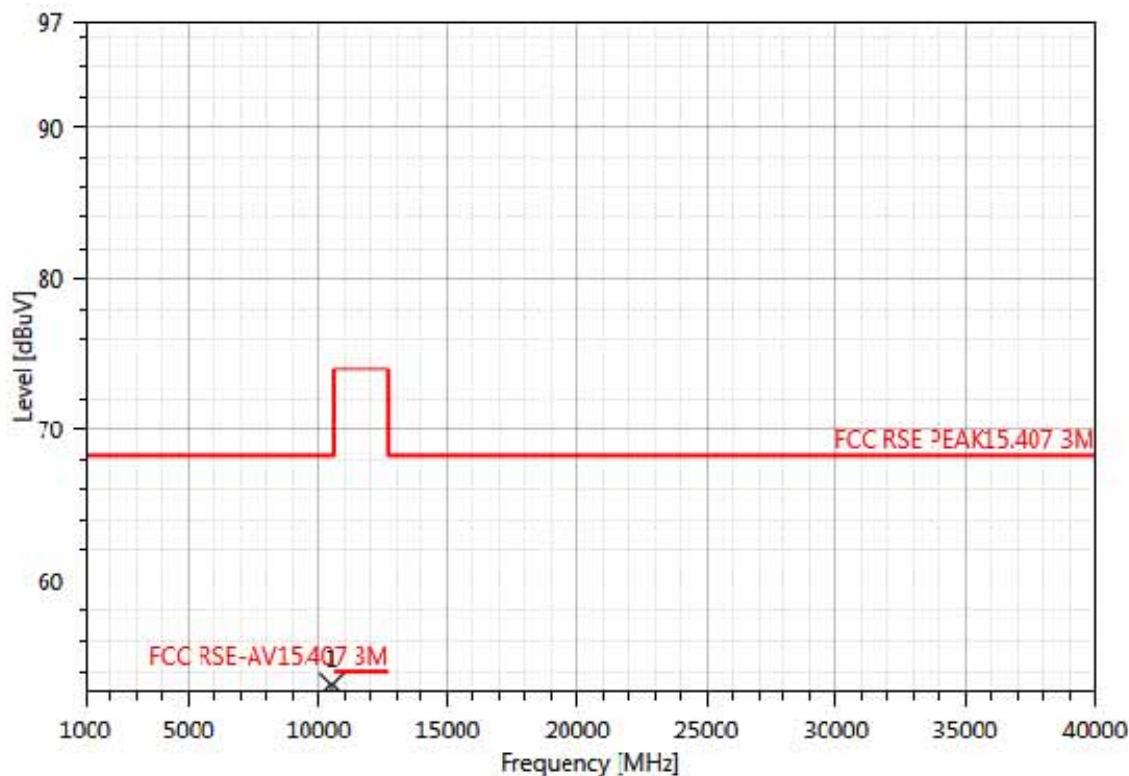
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Operation Mode :	802.11n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10520.00	H	Peak	53.13	33.75	19.37	68.30	-15.17

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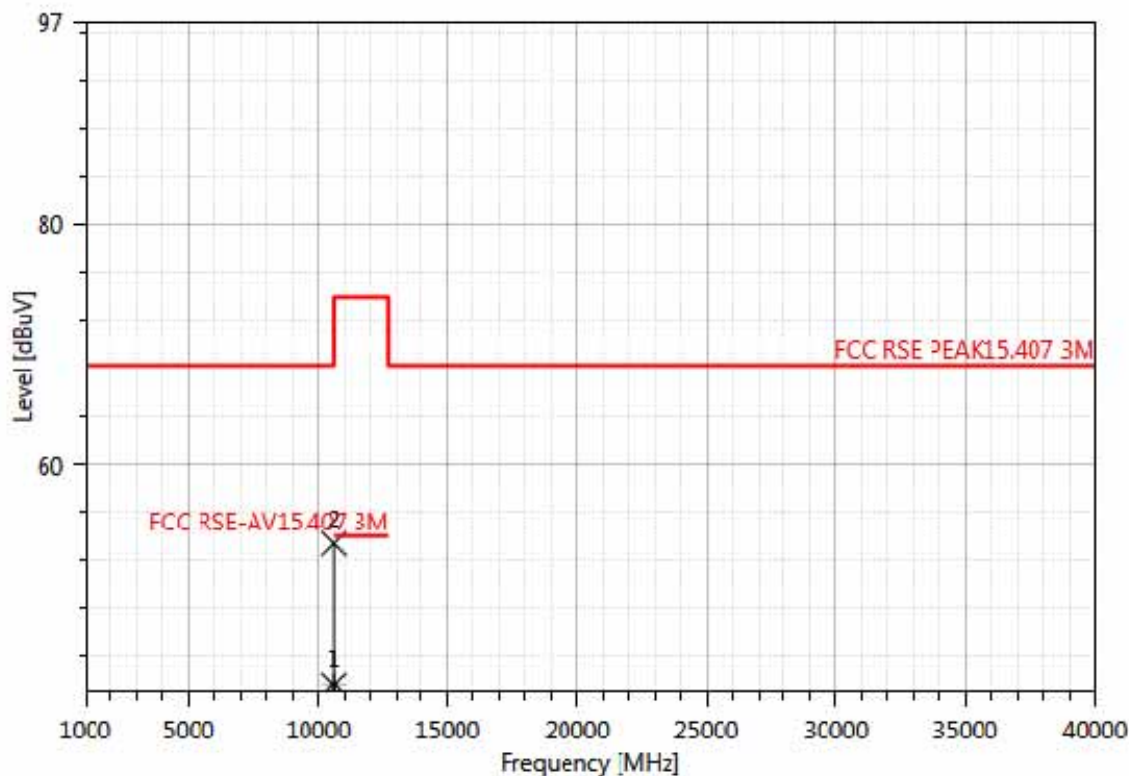
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Operation Mode :	802.11n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10600.00	H	Average	41.60	22.69	18.91	54.00	-12.40
10600.00	H	Peak	53.36	34.45	18.91	74.00	-20.64

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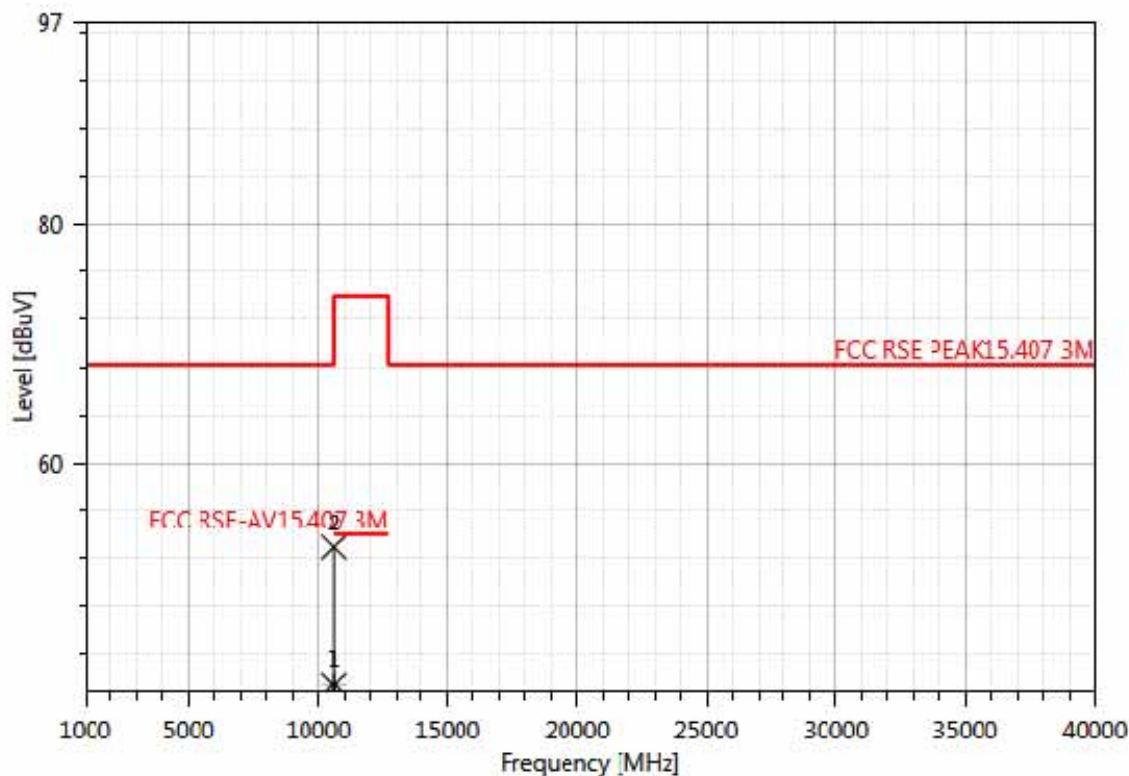
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Operation Mode :	802.11n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
10600.00	H	Average	41.43	22.52	18.91	54.00	-12.57
10600.00	H	Peak	52.93	34.02	18.91	74.00	-21.07

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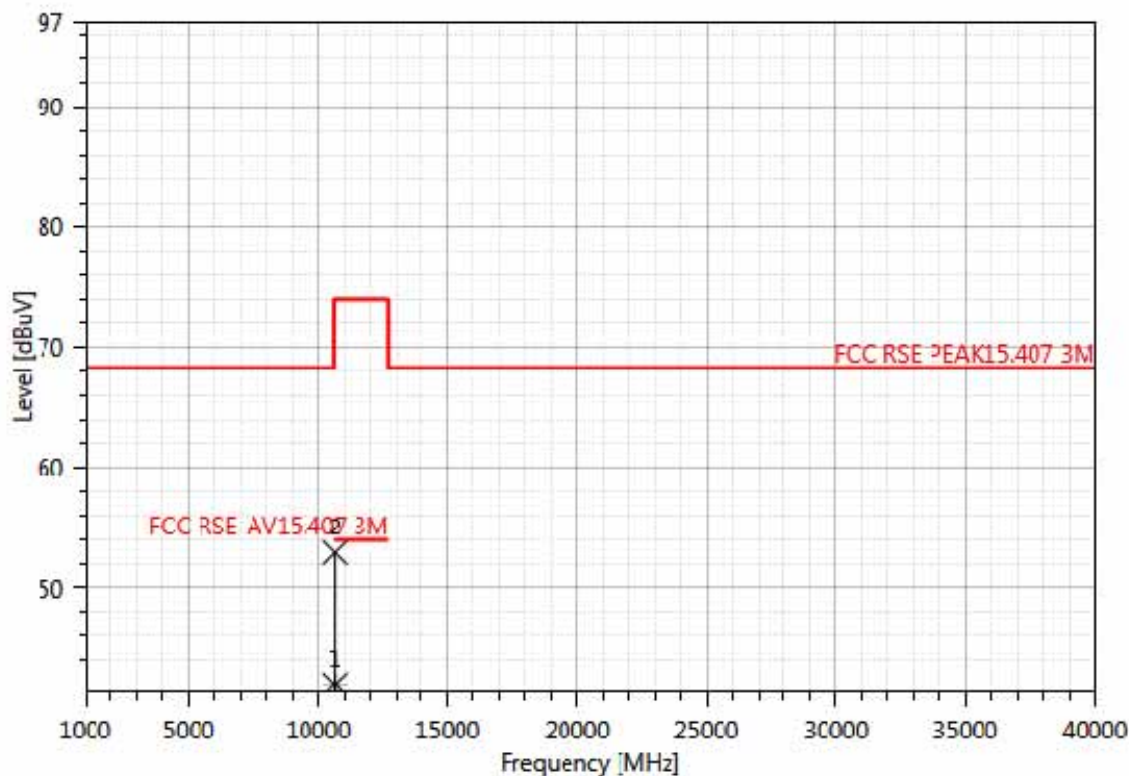
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Operation Mode :	802.11n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
10640.00	H	Average	42.01	22.83	19.18	54.00	-11.99
10640.00	H	Peak	52.97	33.79	19.18	74.00	-21.03

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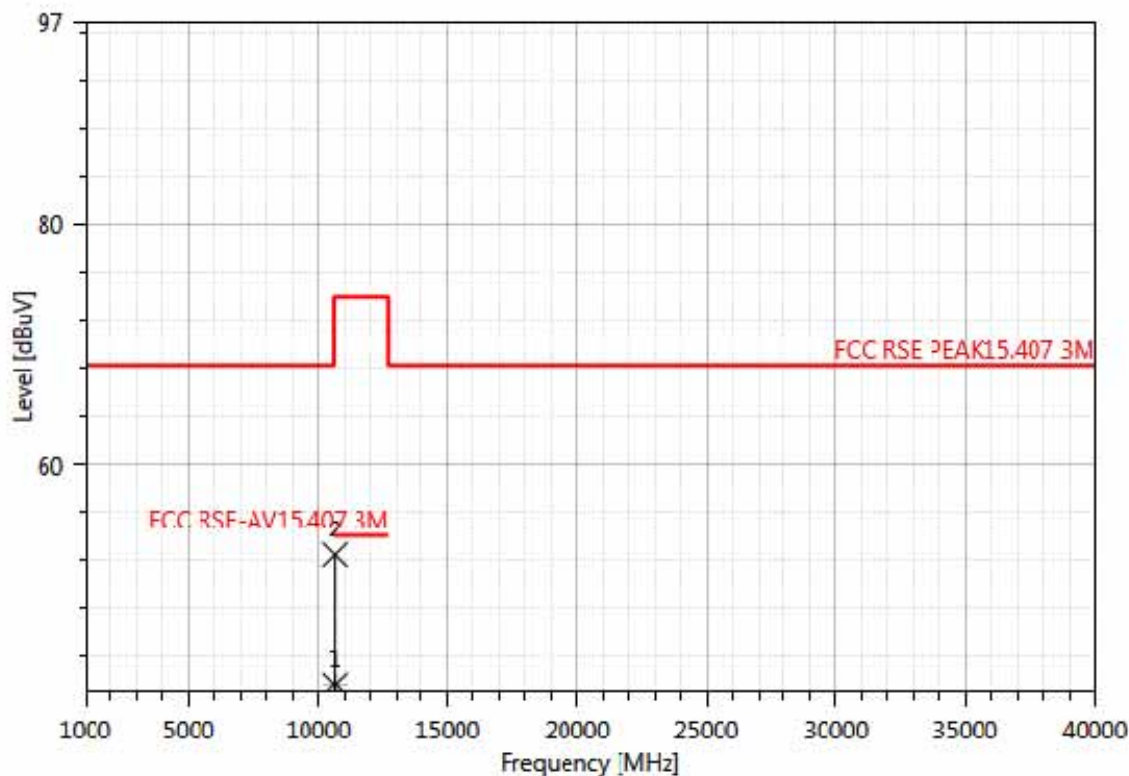
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Operation Mode :	802.11n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
10640.00	H	Average	41.56	22.38	19.18	54.00	-12.44
10640.00	H	Peak	52.42	33.24	19.18	74.00	-21.58

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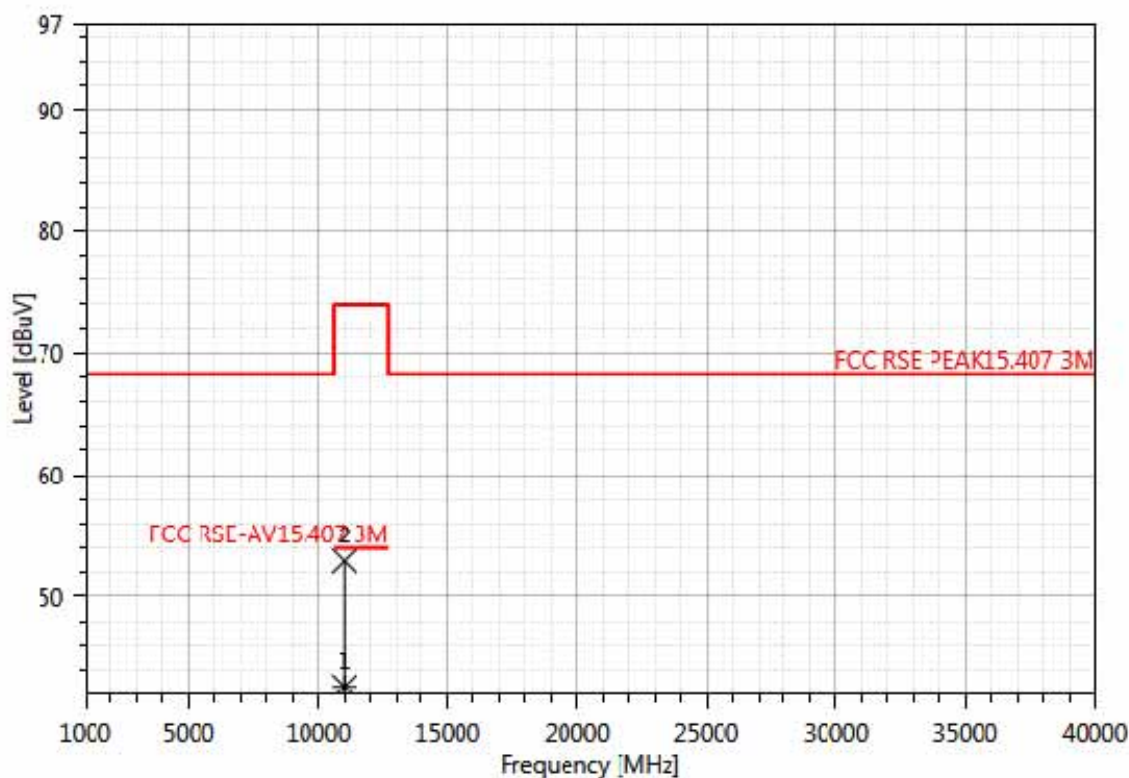
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11000.00	H	Average	42.65	22.48	20.17	54.00	-11.35
11000.00	H	Peak	52.96	32.79	20.17	74.00	-21.04

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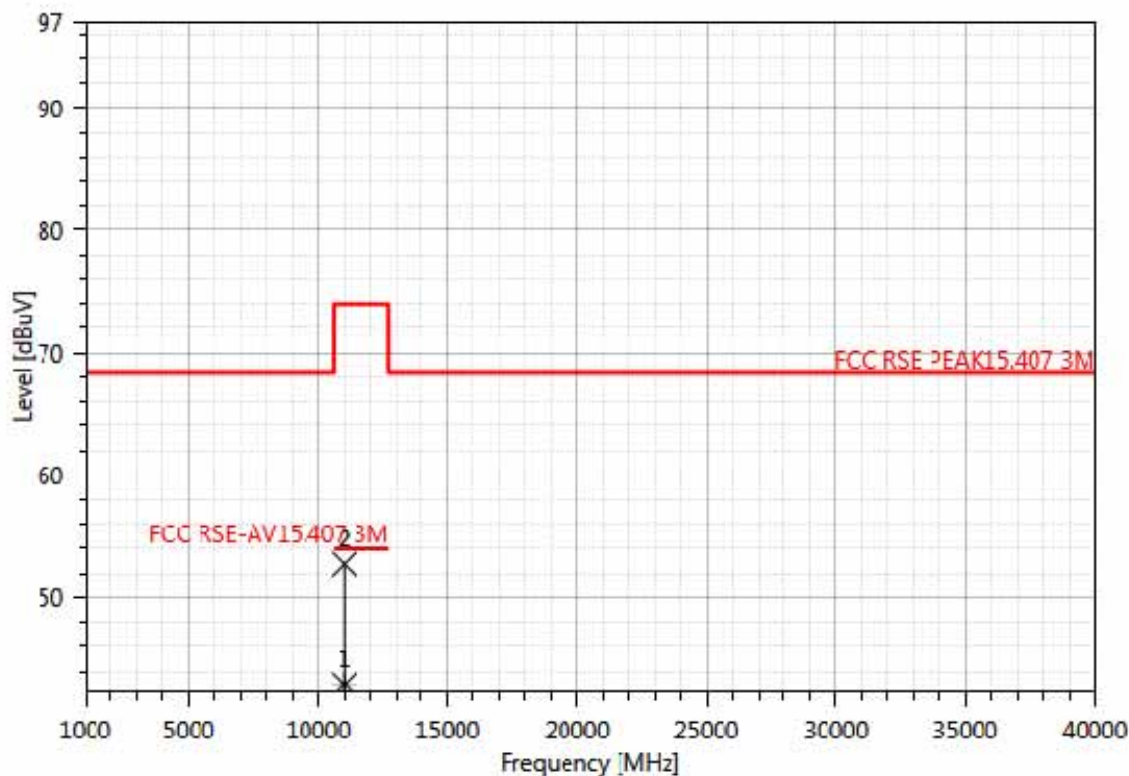
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Operation Mode :	802.11n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11000.00	H	Average	42.93	22.76	20.17	54.00	-11.07
11000.00	H	Peak	52.78	32.61	20.17	74.00	-21.22

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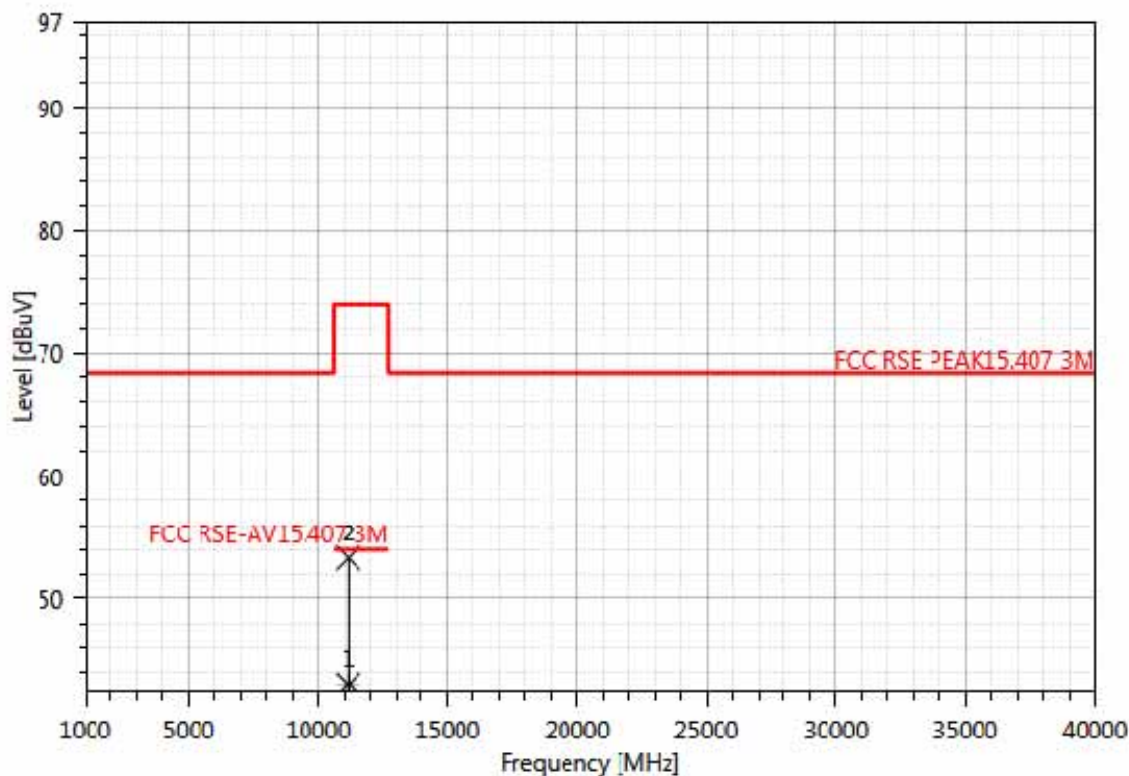
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Operation Mode :	802.11n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11160.00	H	Average	43.00	22.55	20.45	54.00	-11.00
11160.00	H	Peak	53.33	32.88	20.45	74.00	-20.67

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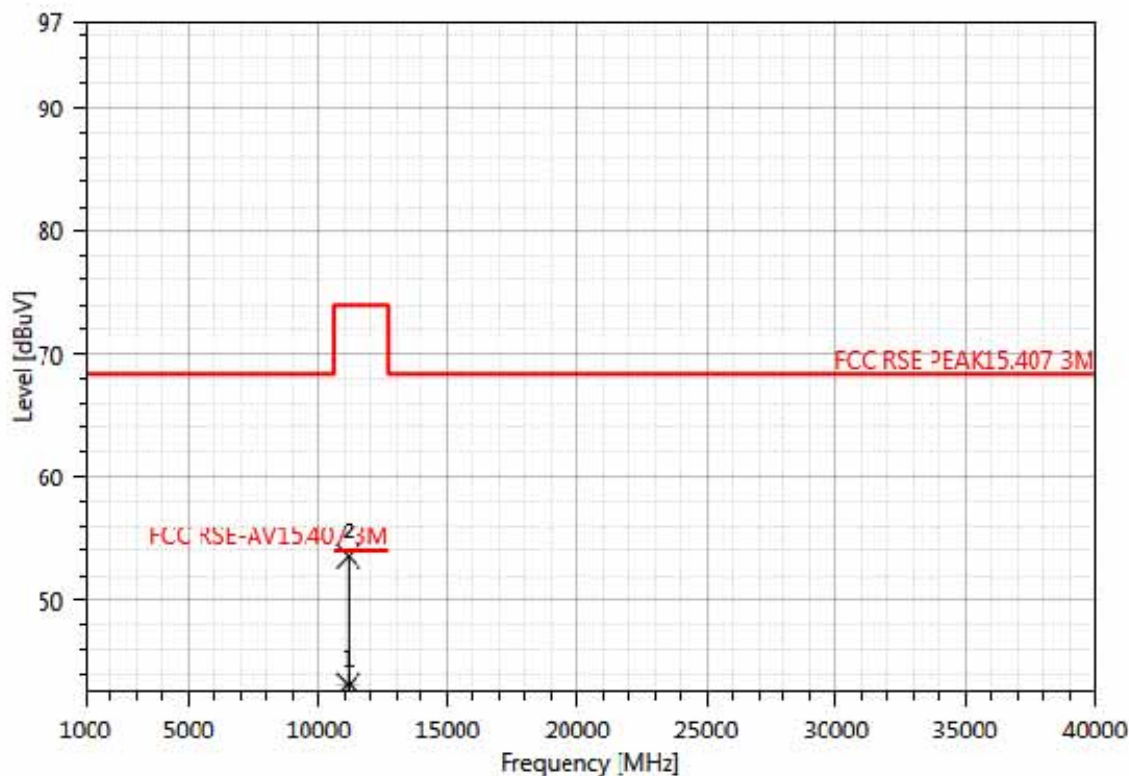
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Operation Mode :	802.11n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11160.00	H	Average	43.14	22.69	20.45	54.00	-10.86
11160.00	H	Peak	53.56	33.11	20.45	74.00	-20.44

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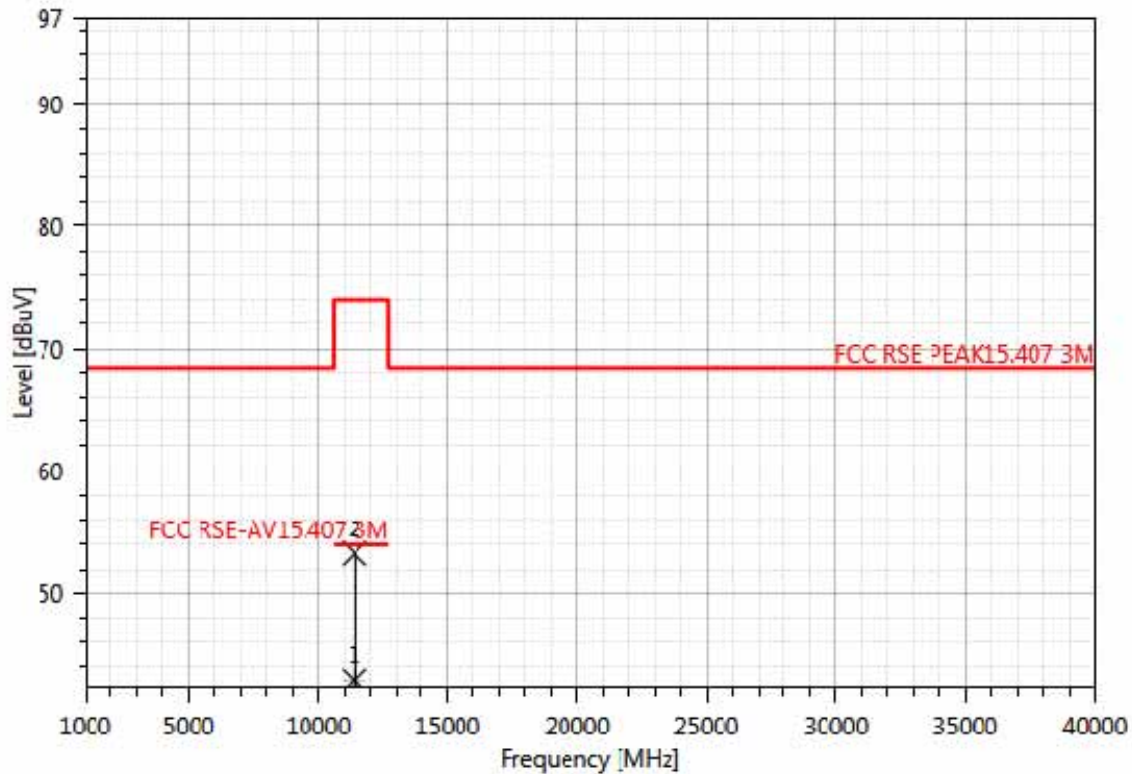
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Operation Mode :	802.11n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11400.00	H	Average	42.89	22.33	20.56	54.00	-11.11
11400.00	H	Peak	53.28	32.72	20.56	74.00	-20.72

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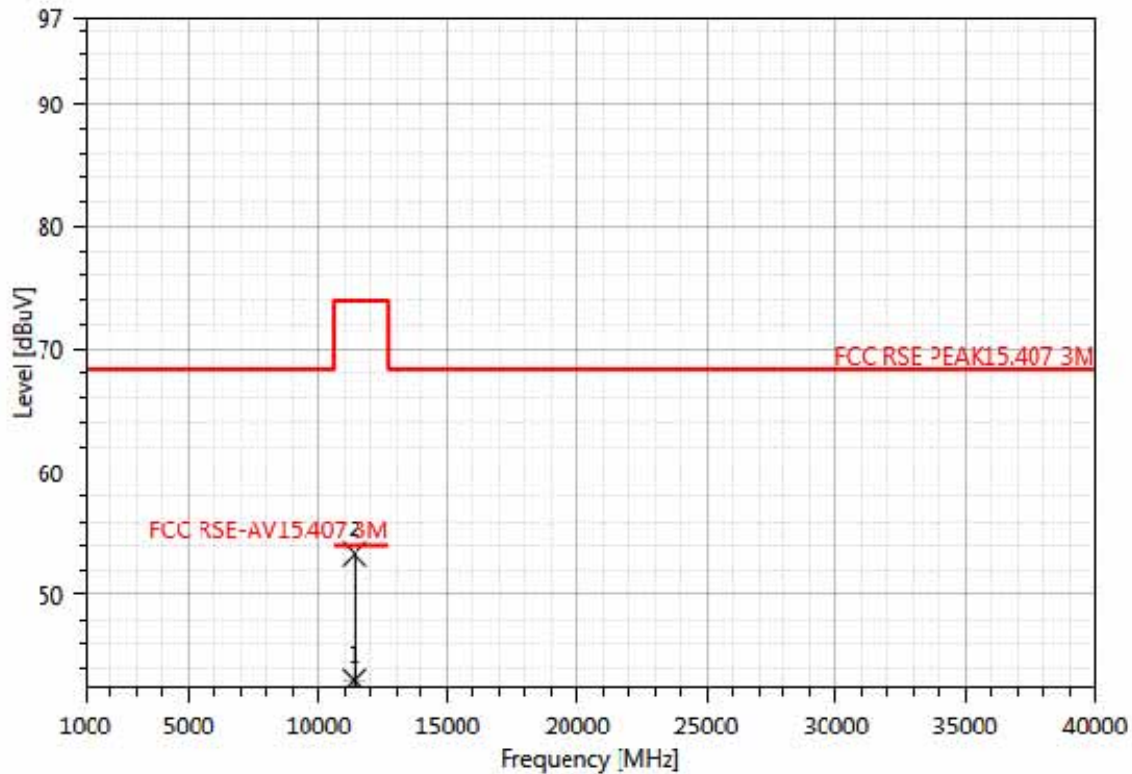
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Operation Mode :	802.11n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11400.00	H	Average	43.03	22.47	20.56	54.00	-10.97
11400.00	H	Peak	53.34	32.78	20.56	74.00	-20.66

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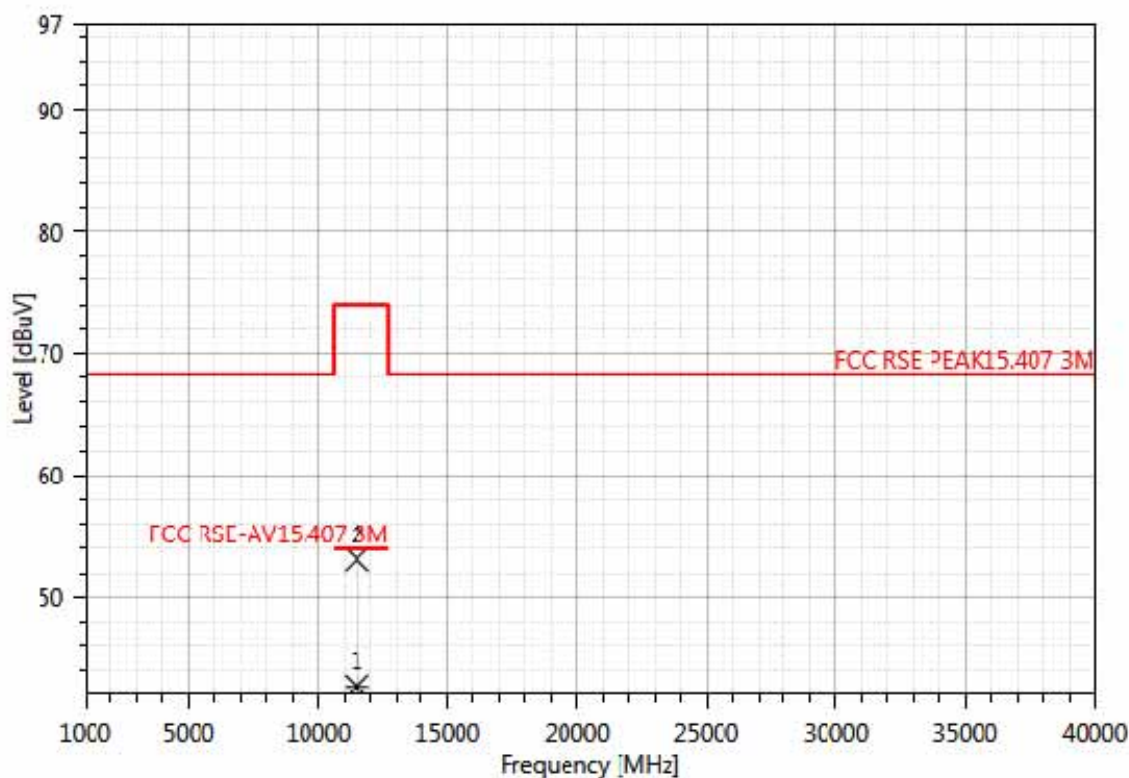
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	42.70	22.28	20.42	54.00	-11.30
11490.00	H	Peak	53.14	32.72	20.42	74.00	-20.86

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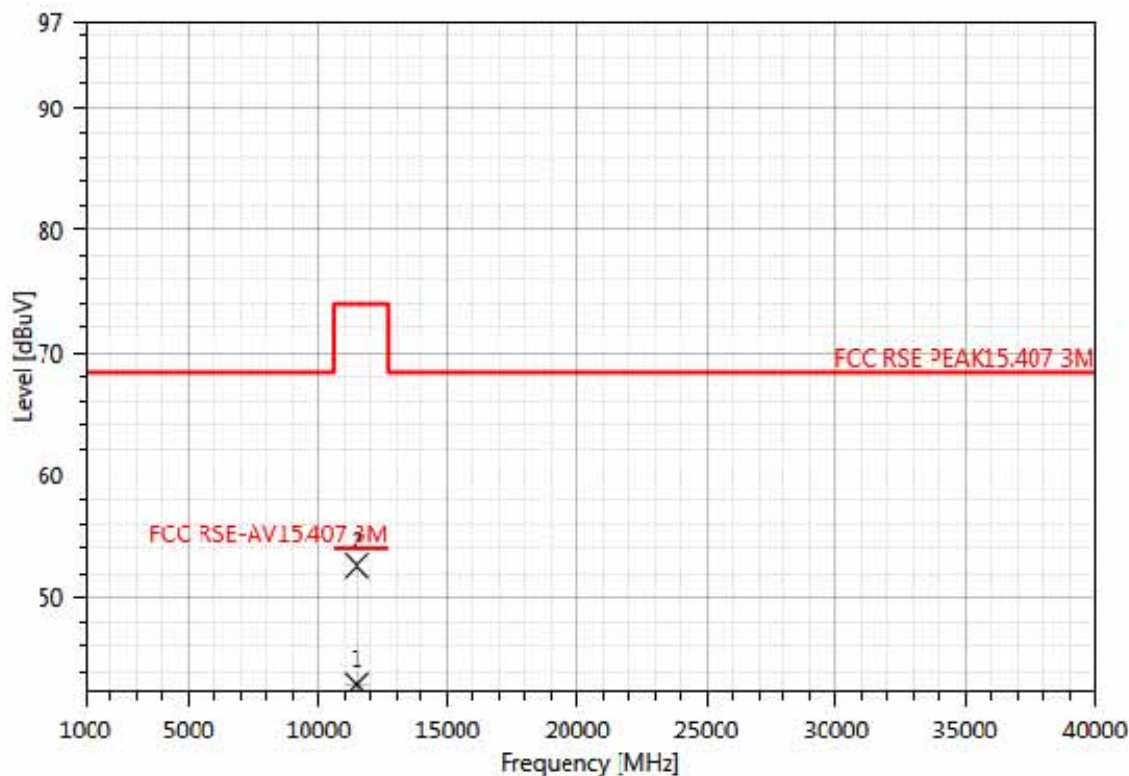
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Operation Mode :	802.11n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
11490.00	H	Average	42.91	22.49	20.42	54.00	-11.09
11490.00	H	Peak	52.64	32.22	20.42	74.00	-21.36

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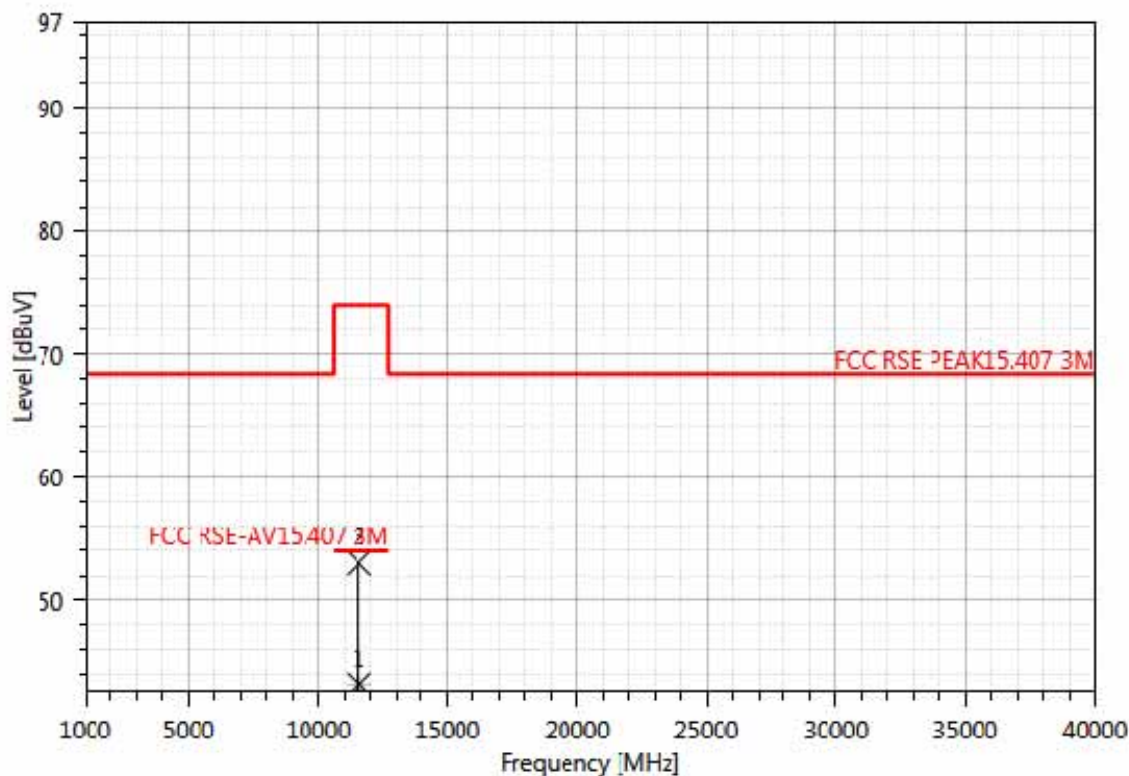
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Operation Mode :	802.11n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11570.00	H	Average	43.14	22.55	20.59	54.00	-10.86
11570.00	H	Peak	53.05	32.47	20.59	74.00	-20.95

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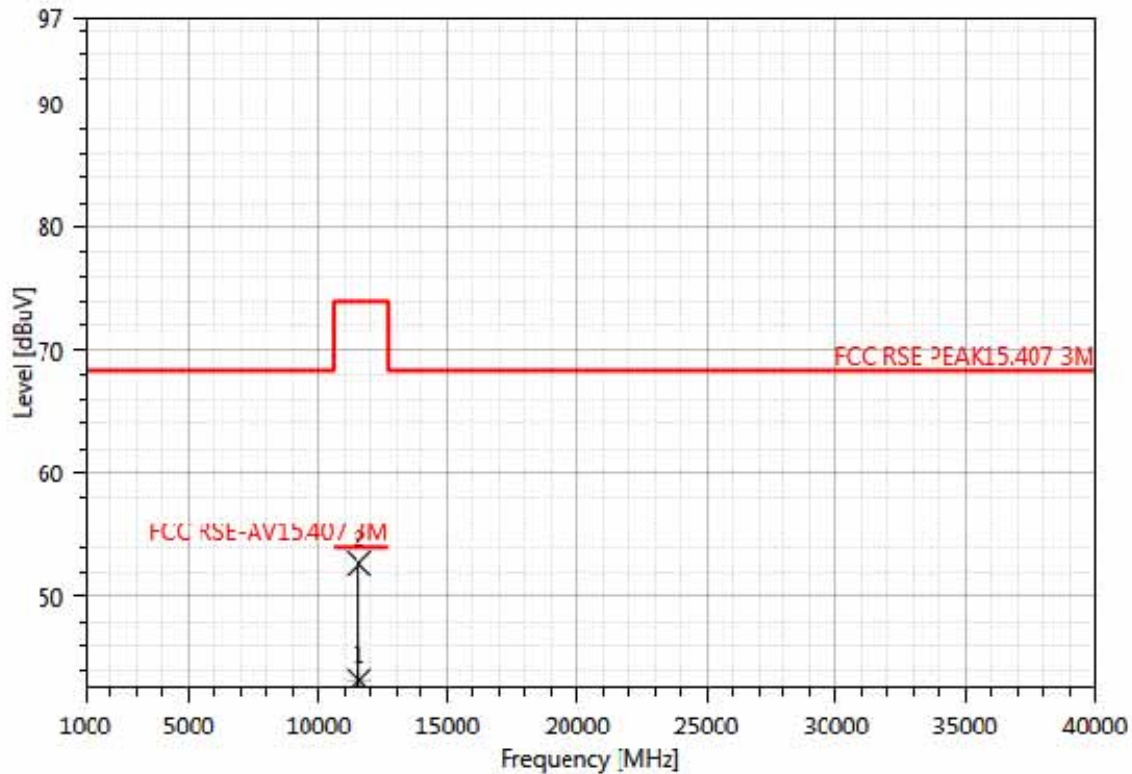
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Operation Mode :	802.11n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11570.00	H	Average	43.21	22.62	20.59	54.00	-10.79
11570.00	H	Peak	52.73	32.15	20.59	74.00	-21.27

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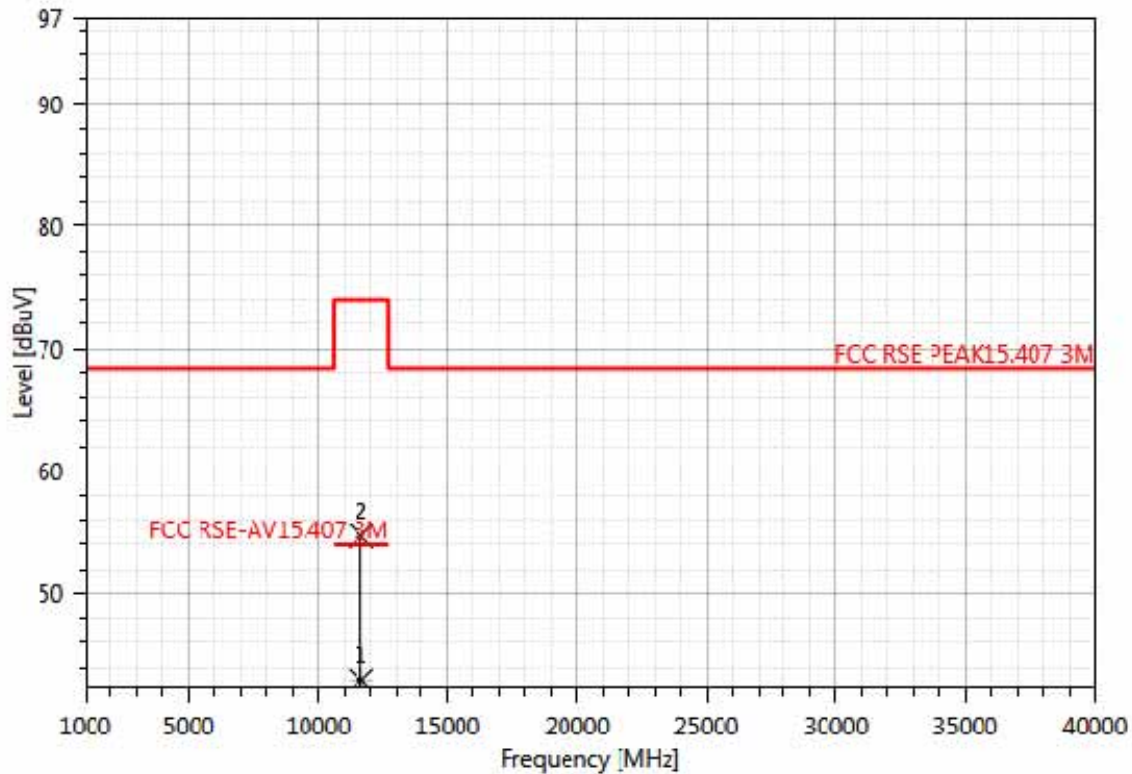
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Operation Mode :	802.11n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
11650.00	H	Average	42.92	22.49	20.43	54.00	-11.08
11650.00	H	Peak	54.70	34.26	20.43	74.00	-19.30

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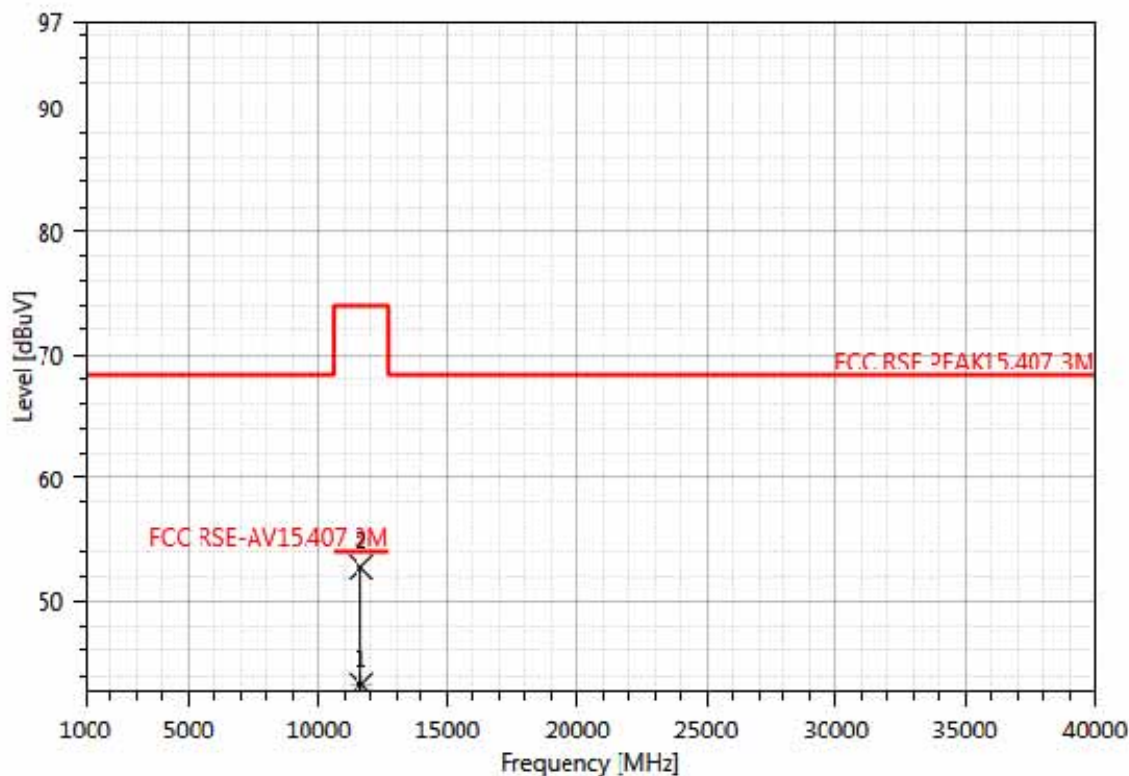
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Operation Mode :	802.11n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
		QP/AV/PK	dBμV/m	dBμV/m		dBuV/m	
11650.00	H	Average	43.24	22.81	20.43	54.00	-10.76
11650.00	H	Peak	52.78	32.35	20.43	74.00	-21.22

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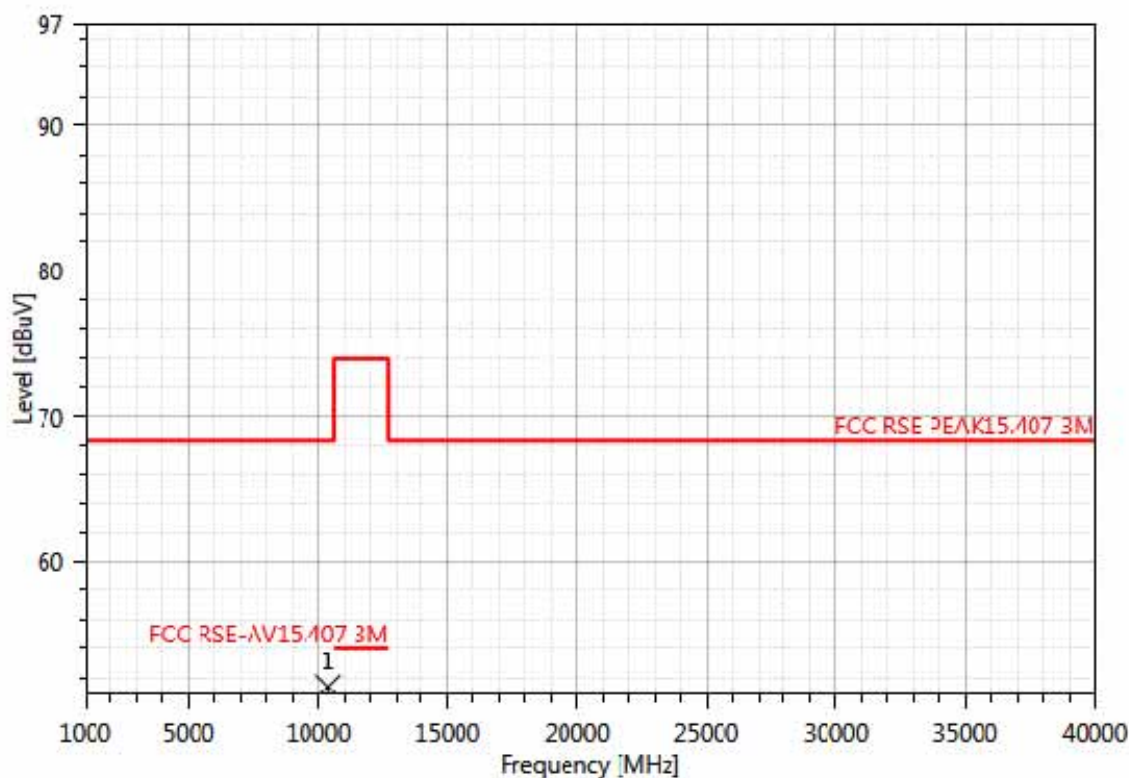
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	08/04/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	dB	@3m	dB
10380.00	H	Peak	51.41	33.29	18.12	68.30	-16.89

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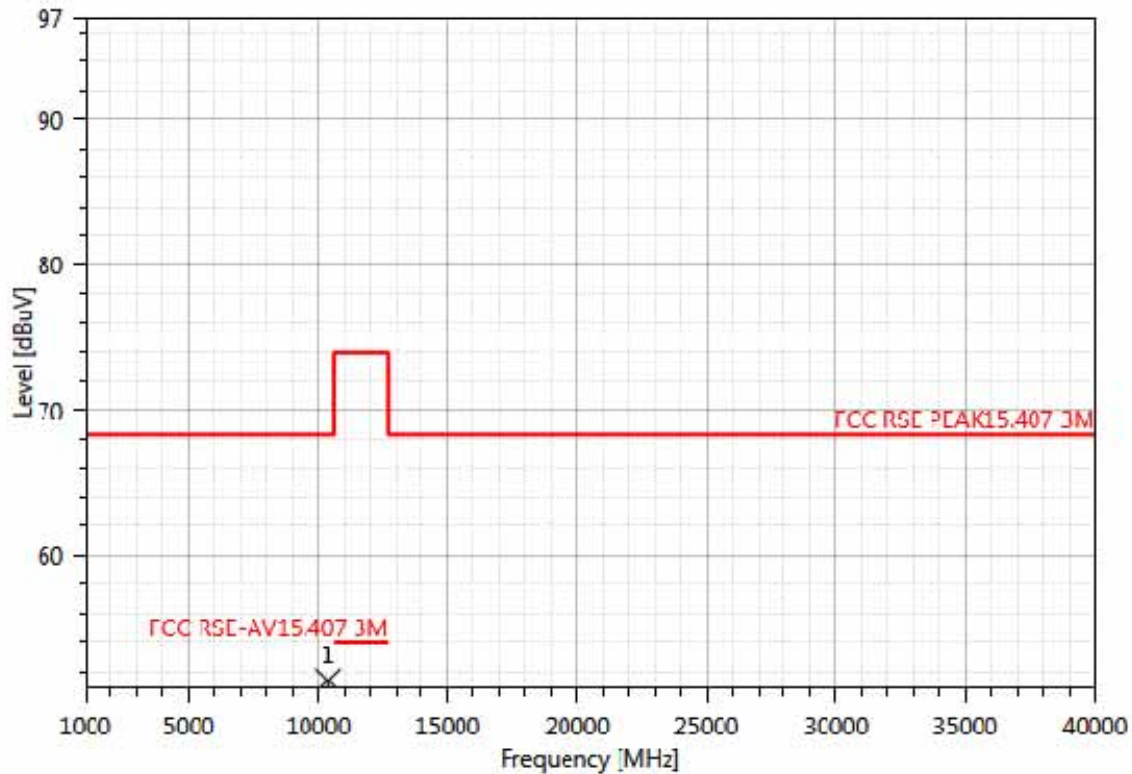
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Operation Mode :	802.11n40B1	Test Date :	08/04/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10380.00	H	Peak	51.42	33.29	18.12	68.30	-16.88

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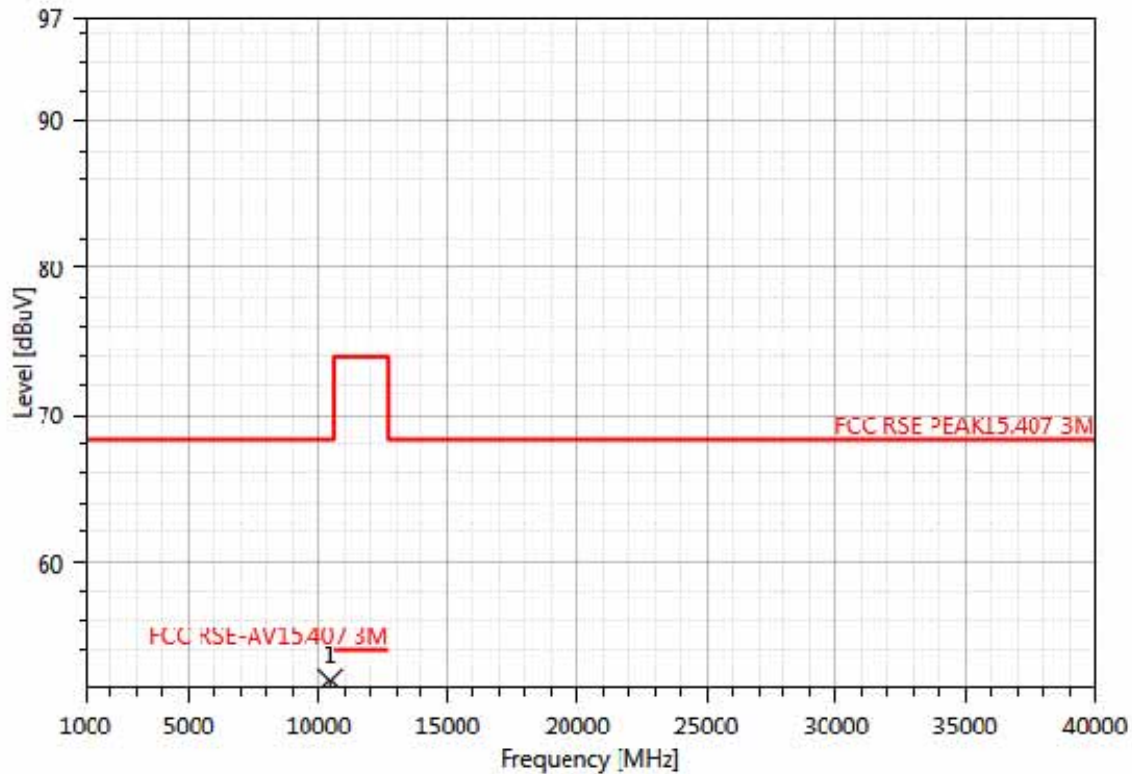
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Operation Mode :	802.11n40B1	Test Date :	08/04/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10460.00	H	Peak	51.94	33.40	18.54	68.30	-16.36

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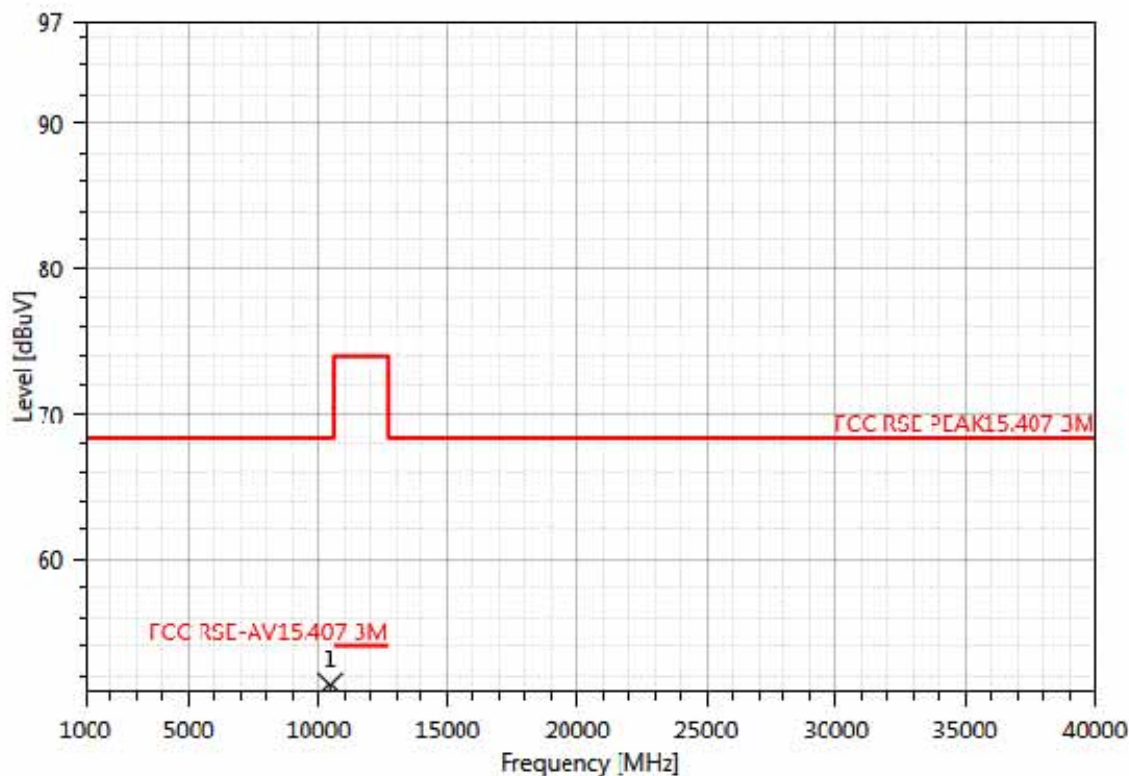
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Operation Mode :	802.11n40B1	Test Date :	08/04/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10460.00	H	Peak	51.37	32.83	18.54	68.30	-16.93

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