

Band : UNII 3  
 Operation Mode: 802.11ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5775 MHz  
 Channel No. 155 Ch

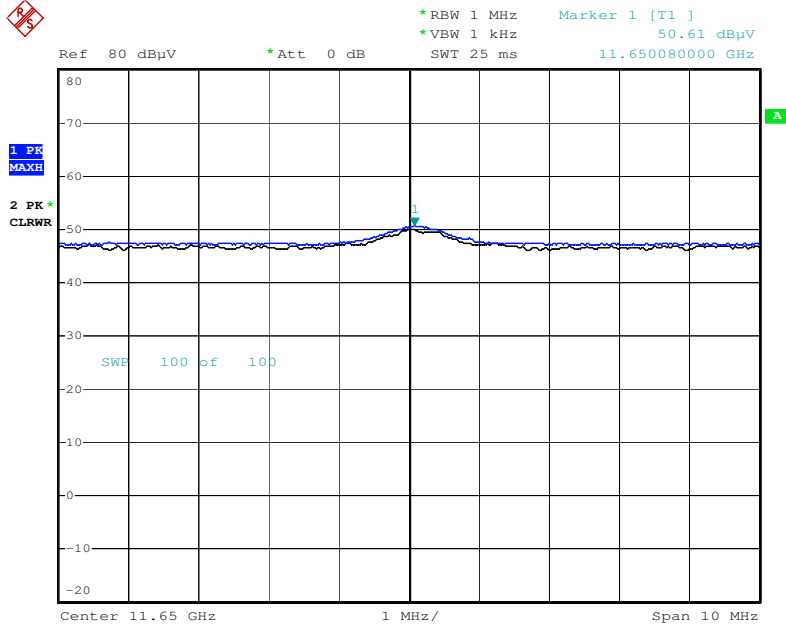
Frequency [MHz]	Reading dBuV	AN.+CL-Amp G. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	61.78	-5.40	V	56.38	73.98	17.60	PK
11550	52.48	-5.40	V	47.08	53.98	6.90	AV
17325	60.14	-0.94	V	59.20	68.20	9.00	PK
11550	61.01	-5.40	H	55.61	73.98	18.37	PK
11550	51.69	-5.40	H	46.29	53.98	7.69	AV
17325	60.08	-0.94	H	59.14	68.20	9.06	PK

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
5. We have done all data rate in 802.11ac\_VHT80. Worst case is MCS0 in 802.11ac\_VHT80.
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

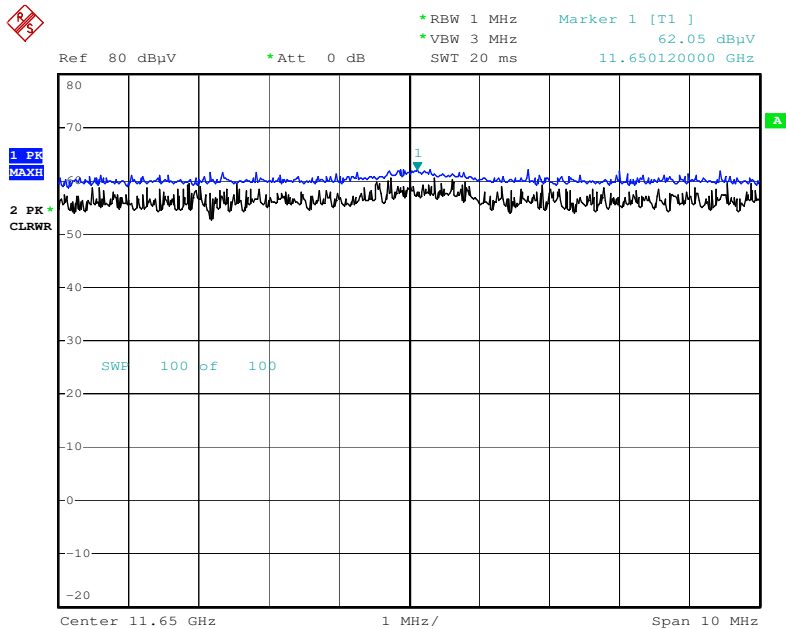
**RESULT PLOTS**

**Radiated Spurious Emissions plot –Average Reading (802.11a, Ch.165 2nd Harmonic, x-V)**



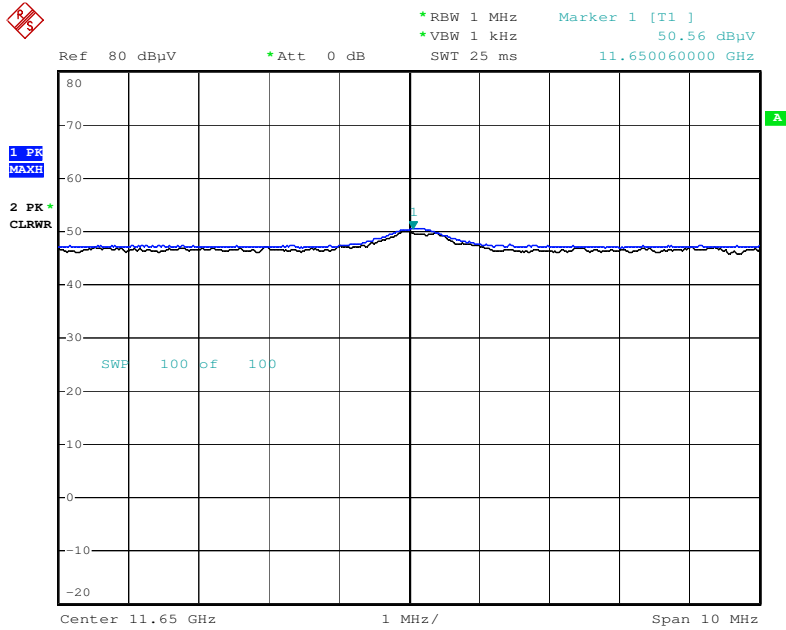
Date: 11.APR.2016 15:27:25

**Radiated Spurious Emissions plot –Peak Reading (802.11a, Ch.165 2nd Harmonic, x-V)**



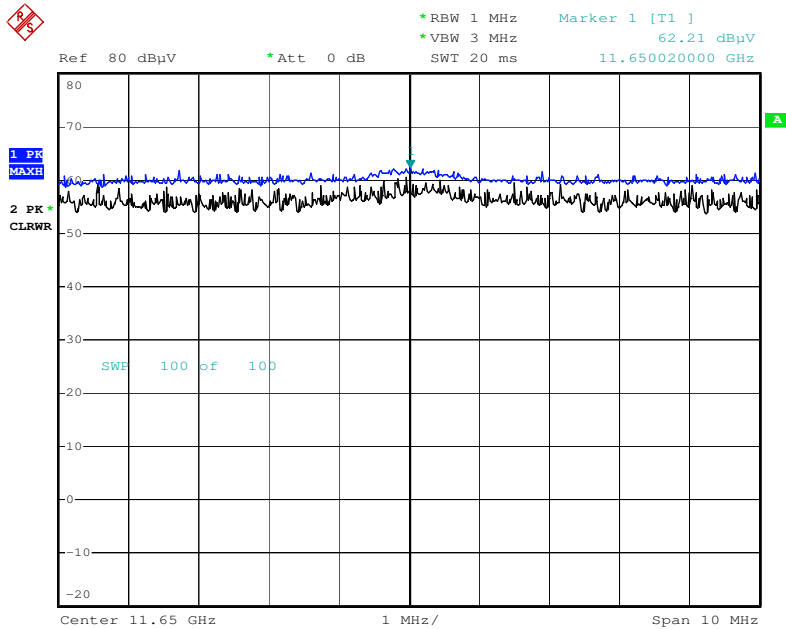
Date: 11.APR.2016 15:26:48

**Radiated Spurious Emissions plot –Average Reading(802.11n\_HT20, Ch.1652nd Harmonic, x-V)**



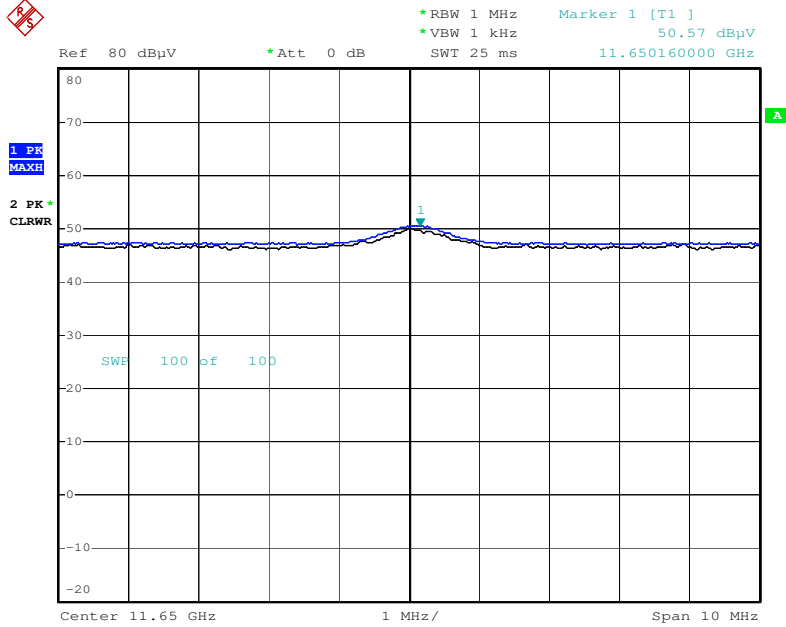
Date: 11.APR.2016 15:28:20

**Radiated Spurious Emissions plot –Peak Reading(802.11n\_HT20, Ch.1652nd Harmonic, x-V)**



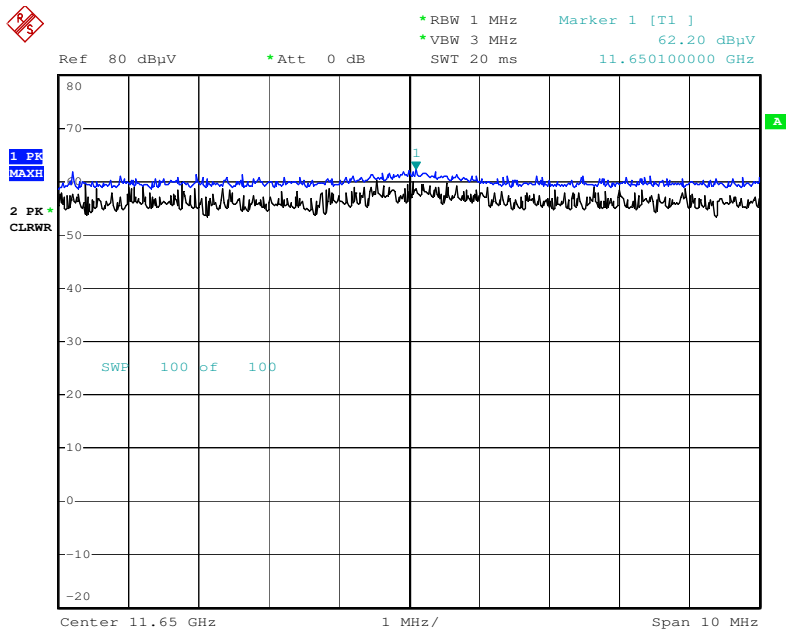
Date: 11.APR.2016 15:28:56

**Radiated Spurious Emissions plot –Average Reading (802.11ac\_VHT20, Ch.1652nd Harmonic, x-V)**



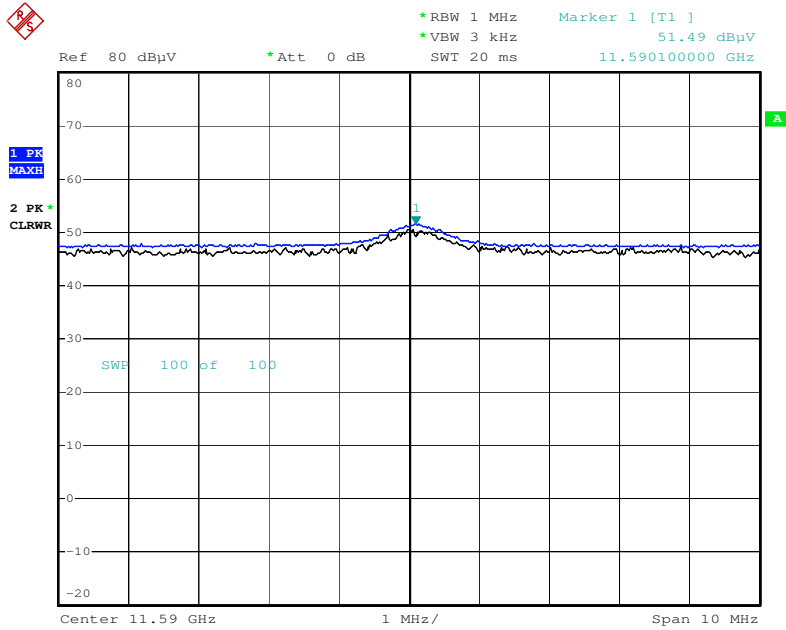
Date: 11.APR.2016 15:30:19

**Radiated Spurious Emissions plot –Peak Reading (802.11ac\_VHT20, Ch.1652nd Harmonic, x-V)**



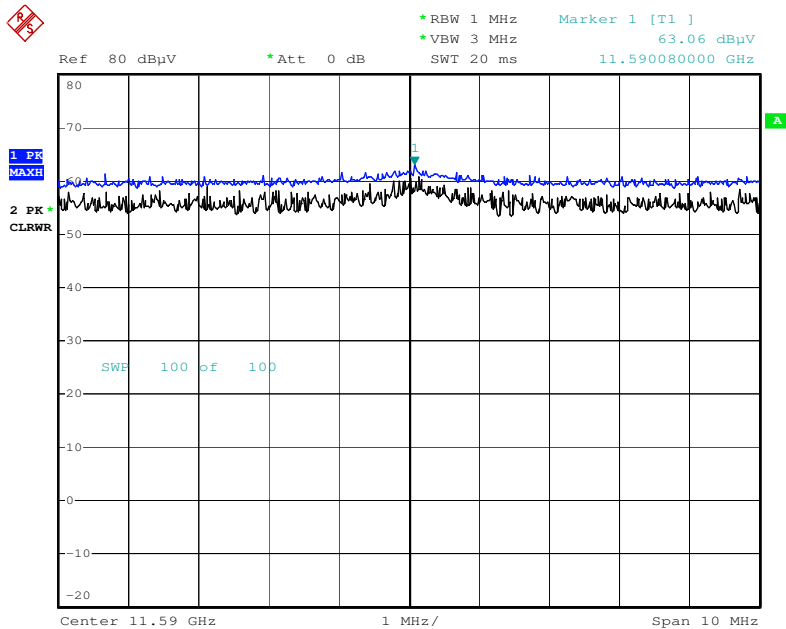
Date: 11.APR.2016 15:29:46

**Radiated Spurious Emissions plot –Average Reading (802.11ac\_VHT40, Ch.159 3rd Harmonic, x-V)**



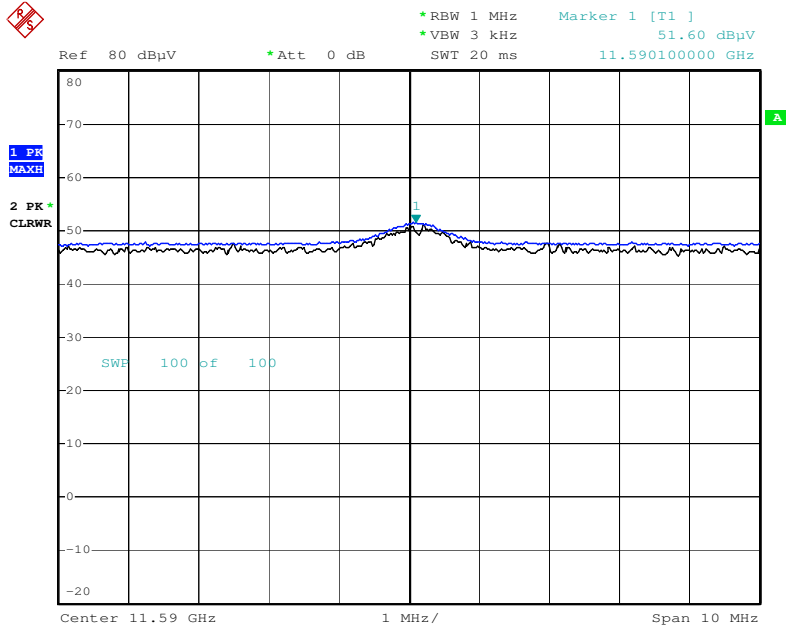
Date: 11.APR.2016 15:35:54

**Radiated Spurious Emissions plot –PeakReading (802.11ac\_VHT40, Ch.159 3rd Harmonic, x-V)**



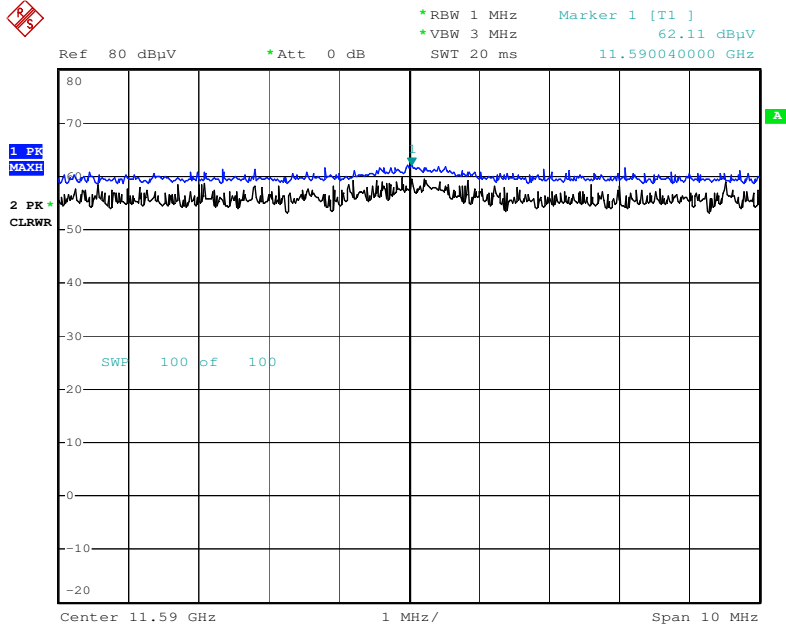
Date: 11.APR.2016 15:35:05

**Radiated Spurious Emissions plot –Average Reading (802.11n\_HT40, Ch.1593rd Harmonic, x-V)**



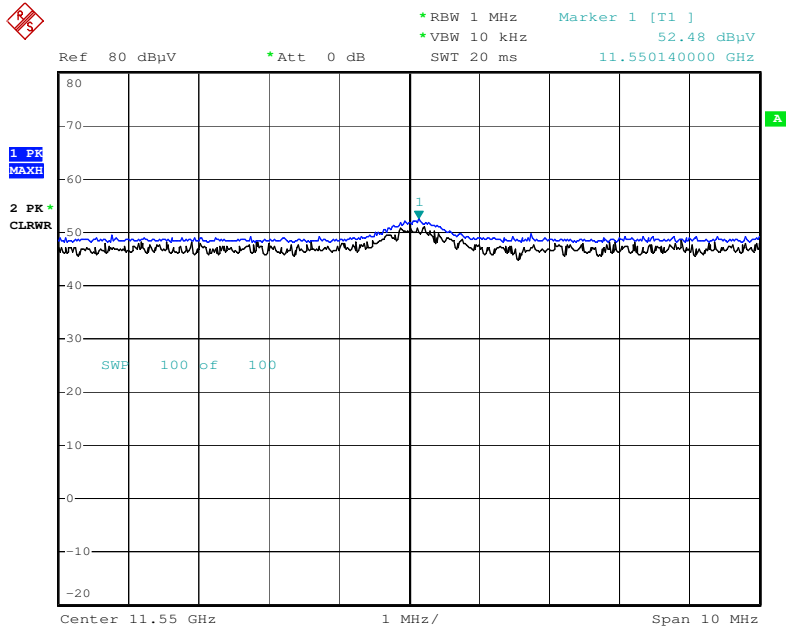
Date: 11.APR.2016 15:32:17

**Radiated Spurious Emissions plot –Peak Reading (802.11n\_HT40, Ch.159 3rd Harmonic, x-V)**



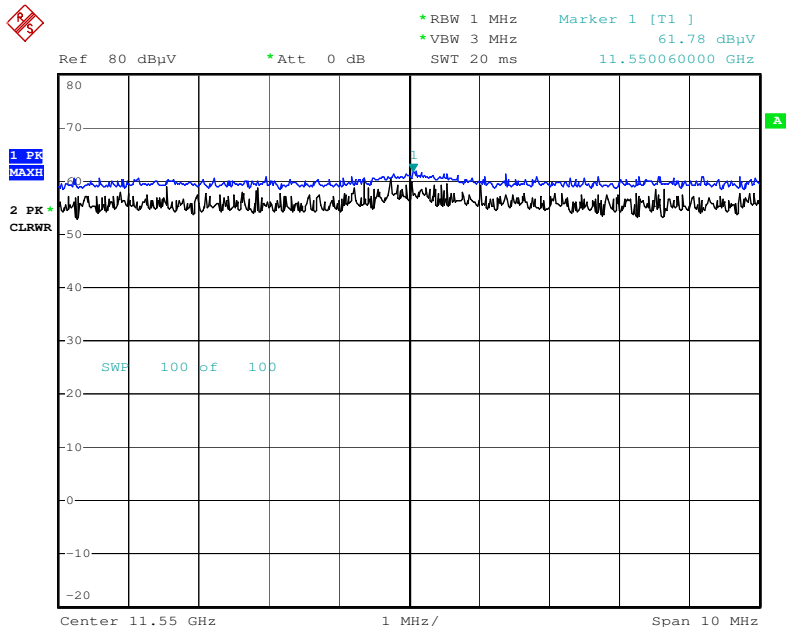
Date: 11.APR.2016 15:33:08

**Radiated Spurious Emissions plot –Average Reading (802.11ac\_VHT80, Ch.155 3rd Harmonic, x-V)**



Date: 11.APR.2016 15:37:00

**Radiated Spurious Emissions plot –Peak Reading (802.11ac\_VHT80, Ch.155 3rd Harmonic, x-V)**



Date: 11.APR.2016 15:37:51

**Note : Only the worst case plots for Radiated Spurious Emissions.**

### 9.6.2 RADIATED RESTRICTED BAND EDGE MEASUREMENTS

#### Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a) (See section 15.205(c)).

#### Stand alone with normal cover

Band : UNII 1  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	49.11	8.18	H	57.29	73.98	16.69	PK
5150	35.47	8.18	H	43.65	53.98	10.33	AV
5150	48.75	8.18	V	56.93	73.98	17.05	PK
5150	35.12	8.18	V	43.3	53.98	10.68	AV

Band : UNII 1  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.61	8.18	H	56.79	73.98	17.19	PK
5150	34.94	8.18	H	43.12	53.98	10.86	AV
5150	48.55	8.18	V	56.73	73.98	17.25	PK
5150	34.76	8.18	V	42.94	53.98	11.04	AV



Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.53	8.18	H	56.71	73.98	17.27	PK
5150	34.85	8.18	H	43.03	53.98	10.95	AV
5150	48.62	8.18	V	56.8	73.98	17.18	PK
5150	34.73	8.18	V	42.91	53.98	11.07	AV

Band : UNII 1  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5190 MHz  
 Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.46	8.18	H	56.64	73.98	17.34	PK
5150	35.37	8.18	H	43.55	53.98	10.43	AV
5150	48.39	8.18	V	56.57	73.98	17.41	PK
5150	35.35	8.18	V	43.53	53.98	10.45	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5190 MHz  
 Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.17	8.18	H	56.35	73.98	17.63	PK
5150	35.25	8.18	H	43.43	53.98	10.55	AV
5150	48.09	8.18	V	56.27	73.98	17.71	PK
5150	35.22	8.18	V	43.4	53.98	10.58	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5210 MHz  
 Channel No. 42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.21	8.18	H	56.39	73.98	17.59	PK
5150	37.36	8.18	H	45.54	53.98	8.44	AV
5150	47.80	8.18	V	55.98	73.98	18.00	PK
5150	37.21	8.18	V	45.39	53.98	8.59	AV

Band : UNII 2A  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	48.29	8.95	H	57.24	73.98	16.74	PK
5350	35.72	8.95	H	44.67	53.98	9.31	AV
5350	47.72	8.95	V	56.67	73.98	17.31	PK
5350	35.57	8.95	V	44.52	53.98	9.46	AV

Band : UNII 2A  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.90	8.95	H	56.85	73.98	17.13	PK
5350	34.72	8.95	H	43.67	53.98	10.31	AV
5350	47.63	8.95	V	56.58	73.98	17.40	PK
5350	34.45	8.95	V	43.40	53.98	10.58	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.99	8.95	H	56.94	73.98	17.04	PK
5350	34.75	8.95	H	43.70	53.98	10.28	AV
5350	47.45	8.95	V	56.40	73.98	17.58	PK
5350	34.67	8.95	V	43.62	53.98	10.36	AV

Band : UNII 2A  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5310 MHz  
 Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	48.24	8.95	H	57.19	73.98	16.79	PK
5350	34.96	8.95	H	43.91	53.98	10.07	AV
5350	48.02	8.95	V	56.97	73.98	17.01	PK
5350	34.88	8.95	V	43.83	53.98	10.15	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5310 MHz  
 Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	48.44	8.95	H	57.39	73.98	16.59	PK
5350	34.85	8.95	H	43.80	53.98	10.18	AV
5350	48.36	8.95	V	57.31	73.98	16.67	PK
5350	34.81	8.95	V	43.76	53.98	10.22	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5290 MHz  
 Channel No. 58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	48.88	8.95	H	57.83	73.98	16.15	PK
5350	36.27	8.95	H	45.22	53.98	8.76	AV
5350	48.73	8.95	V	57.68	73.98	16.30	PK
5350	36.19	8.95	V	45.14	53.98	8.84	AV

Band : UNII 2C  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.30	9.62	H	56.92	73.98	17.06	PK
5460	34.55	9.62	H	44.17	53.98	9.81	AV
5470	47.23	9.52	H	56.75	68.20	11.45	PK
5460	47.44	9.62	V	57.06	73.98	16.92	PK
5460	34.23	9.62	V	43.85	53.98	10.13	AV
5470	47.21	9.52	V	56.73	68.20	11.47	PK

Band : UNII 2C  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	47.29	10.70	H	57.99	68.20	10.21	PK
5725	47.15	10.70	V	57.85	68.20	10.35	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.73	9.62	H	57.35	73.98	16.63	PK
5460	33.94	9.62	H	43.56	53.98	10.42	AV
5470	47.20	9.52	H	56.72	68.20	11.48	PK
5460	47.69	9.62	V	57.31	73.98	16.67	PK
5460	33.88	9.62	V	43.5	53.98	10.48	AV
5470	47.21	9.52	V	56.73	68.20	11.47	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.58	10.70	H	57.28	68.20	10.92	PK
5725	46.41	10.70	V	57.11	68.20	11.09	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	48.20	9.62	H	57.82	73.98	16.16	PK
5460	33.92	9.62	H	43.54	53.98	10.44	AV
5470	47.13	9.52	H	56.65	68.20	11.55	PK
5460	48.08	9.62	V	57.7	73.98	16.28	PK
5460	33.89	9.62	V	43.51	53.98	10.47	AV
5470	47.05	9.52	V	56.57	68.20	11.63	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.11	10.70	H	56.81	68.20	11.39	PK
5725	46.03	10.70	V	56.73	68.20	11.47	PK



Band : UNII 2C  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5510 MHz  
 Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.63	9.62	H	57.25	73.98	16.73	PK
5460	34.73	9.62	H	44.35	53.98	9.63	AV
5470	47.72	9.52	H	57.24	68.20	10.96	PK
5460	47.52	9.62	V	57.14	73.98	16.84	PK
5460	34.61	9.62	V	44.23	53.98	9.75	AV
5470	47.36	9.52	V	56.88	68.20	11.32	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5670 MHz  
 Channel No. 134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	45.89	10.70	H	56.59	68.20	11.61	PK
5725	45.85	10.70	V	56.55	68.20	11.65	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5510 MHz  
 Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.20	9.62	H	56.82	73.98	17.16	PK
5460	34.97	9.62	H	44.59	53.98	9.39	AV
5470	47.42	9.52	H	56.94	68.20	11.26	PK
5460	47.04	9.62	V	56.66	73.98	17.32	PK
5460	34.69	9.62	V	44.31	53.98	9.67	AV
5470	47.33	9.52	V	56.85	68.20	11.35	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5670 MHz  
 Channel No. 134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.34	10.70	H	57.04	68.20	11.16	PK
5725	46.35	10.70	V	57.05	68.20	11.15	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5530 MHz  
 Channel No. 106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	46.89	9.62	H	56.51	73.98	17.47	PK
5460	35.77	9.62	H	45.39	53.98	8.59	AV
5470	47.55	9.52	H	57.07	68.20	11.13	PK
5460	47.42	9.62	V	57.04	73.98	16.94	PK
5460	35.73	9.62	V	45.35	53.98	8.63	AV
5470	47.36	9.52	V	56.88	68.20	11.32	PK

Band : UNII 3  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	57.45	10.70	H	68.15	78.20	10.05	PK
5725	57.36	10.70	V	68.06	78.20	10.14	PK
5715	46.59	10.35	H	56.94	68.20	11.26	PK
5715	46.61	10.35	V	56.96	68.20	11.24	PK

Band : UNII 3  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	46.31	11.47	H	57.78	78.20	20.42	PK
5850	46.20	11.47	V	57.67	78.20	20.53	PK
5860	46.10	11.47	H	57.57	68.20	10.63	PK
5860	46.12	11.47	V	57.59	68.20	10.61	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	51.28	10.70	H	61.98	78.20	16.22	PK
5725	51.14	10.70	V	61.84	78.20	16.36	PK
5715	47.06	10.35	H	57.41	68.20	10.79	PK
5715	47.15	10.35	V	57.50	68.20	10.70	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.51	11.47	H	56.98	78.20	21.22	PK
5850	45.19	11.47	V	56.66	78.20	21.54	PK
5860	46.01	11.47	H	57.48	68.20	10.72	PK
5860	46.05	11.47	V	57.52	68.20	10.68	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	48.61	10.70	H	59.31	78.20	18.89	PK
5725	48.50	10.70	V	59.20	78.20	19.00	PK
5715	46.15	10.35	H	56.50	68.20	11.70	PK
5715	46.32	10.35	V	56.67	68.20	11.53	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.97	11.47	H	57.44	78.20	20.76	PK
5850	45.86	11.47	V	57.33	78.20	20.87	AV
5860	45.94	11.47	H	57.41	68.20	10.79	PK
5860	45.90	11.47	V	57.37	68.20	10.83	AV

Band : UNII 3  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 151 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	54.62	10.70	H	65.32	78.20	12.88	PK
5725	54.54	10.70	V	65.24	78.20	12.96	PK
5715	46.49	10.35	H	56.84	68.20	11.36	PK
5715	46.30	10.35	V	56.65	68.20	11.55	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5795 MHz  
 Channel No. 159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.62	11.47	H	57.09	78.20	21.11	PK
5850	45.60	11.47	V	57.07	78.20	21.13	PK
5860	45.04	11.47	H	56.51	68.20	11.69	PK
5860	45.28	11.47	V	56.75	68.20	11.45	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 151 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	51.56	10.70	H	62.26	78.20	15.94	PK
5725	51.29	10.70	V	61.99	78.20	16.21	PK
5715	46.98	10.35	H	57.33	68.20	10.87	PK
5715	47.02	10.35	V	57.37	68.20	10.83	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5795 MHz  
 Channel No. 159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.54	11.47	H	57.01	78.20	21.19	PK
5850	45.53	11.47	V	57	78.20	21.20	AV
5860	45.33	11.47	H	56.80	68.20	11.40	PK
5860	45.38	11.47	V	56.85	68.20	11.35	AV

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 155 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	50.02	10.70	H	60.72	78.20	17.48	PK
5725	50.11	10.70	V	60.81	78.20	17.39	PK
5715	46.37	10.35	H	56.72	68.20	11.48	PK
5715	46.24	10.35	V	56.59	68.20	11.61	PK
5850	45.79	11.47	H	57.26	78.20	20.94	PK
5850	45.91	11.47	V	57.38	78.20	20.82	PK
5860	45.16	11.47	H	56.63	68.20	11.57	PK
5860	45.06	11.47	V	56.53	68.20	11.67	PK

**Notes:**

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.



3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. '\*' is radiated band edge test frequency.(not restricted band emissions)
5. The mark '#' is tested according to II.G.2.c in KDB 789033D02 v01r02

## II. MEASUREMENT PROCEDURES

### G. Unwanted Emission Measurement

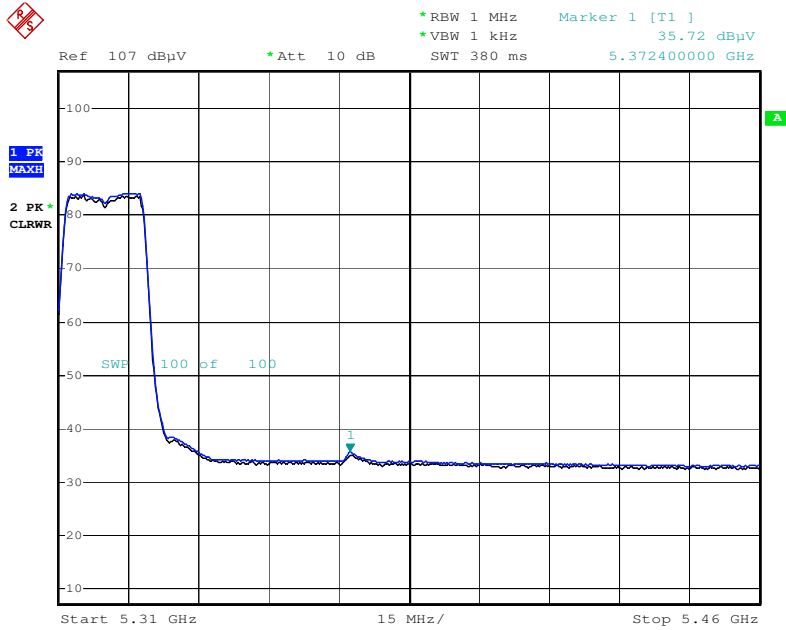
#### 2. Unwanted Emissions that fall Outside of the Restricted Bands

c) At frequencies above 1000 MHz, use the procedure for maximum emissions described in section II.G.5., "Procedure for Unwanted Maximum Unwanted Emissions Measurements Above 1000 MHz".

As specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

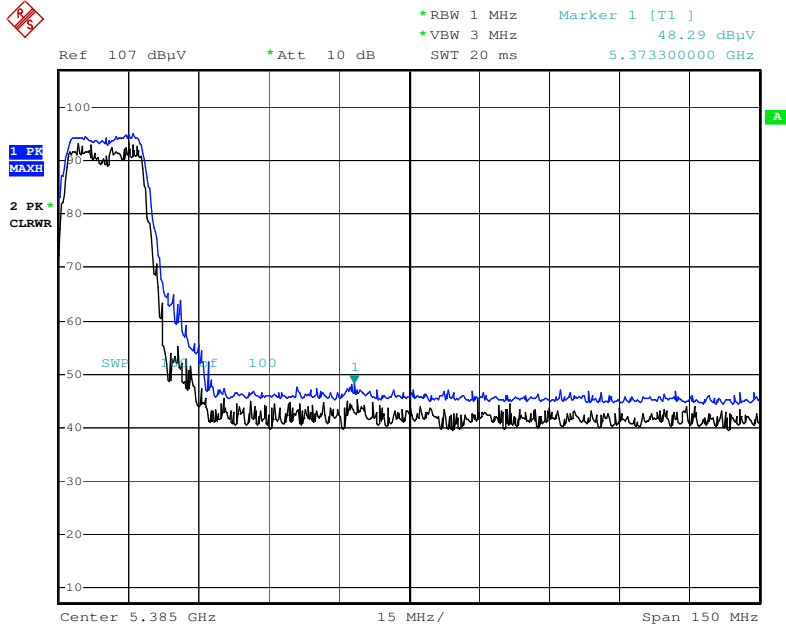
**RESULT PLOTS**

**Radiated Restricted Band Edges plot – Average Reading (802.11a, Ch.64, x-H)**



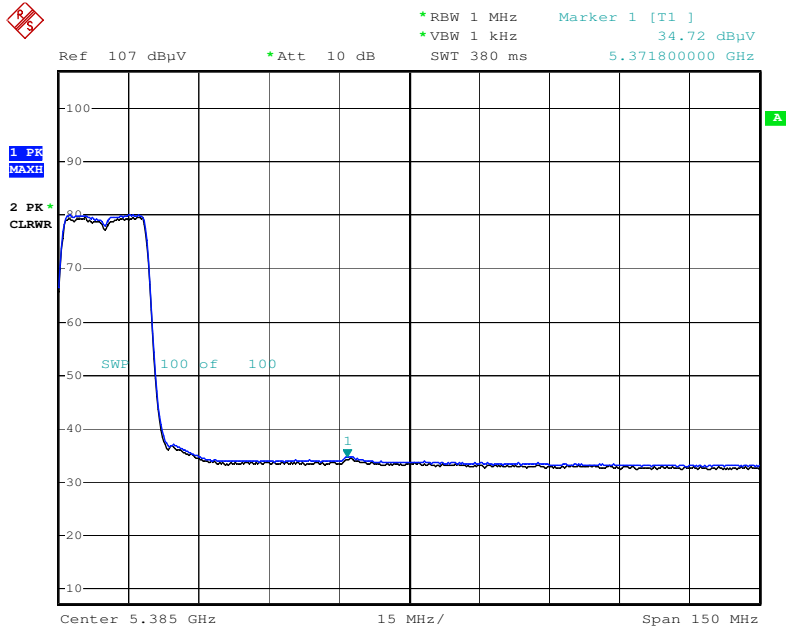
Date: 8.APR.2016 11:39:08

**Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.64, x-H)**



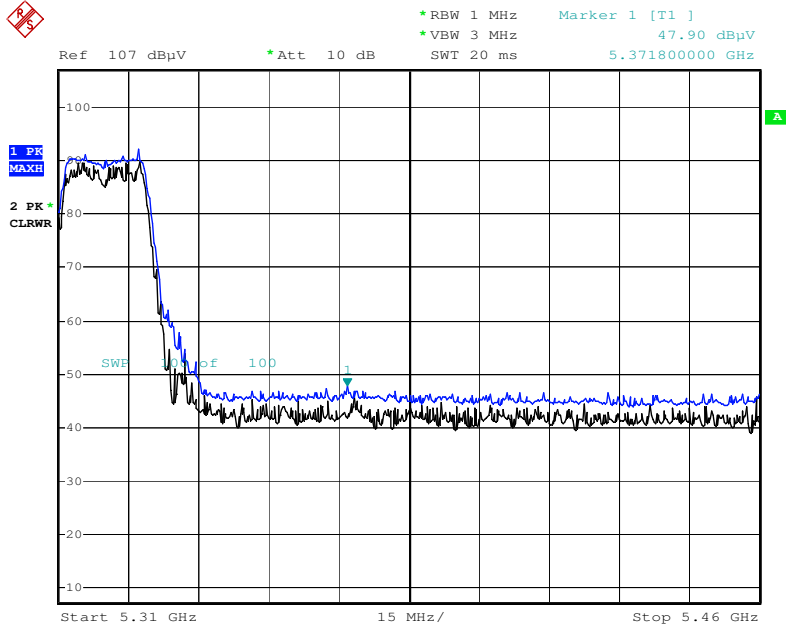
Date: 8.APR.2016 11:40:18

**Radiated Restricted Band Edges plot – Average Reading (802.11n\_HT20, Ch.64, x-H)**



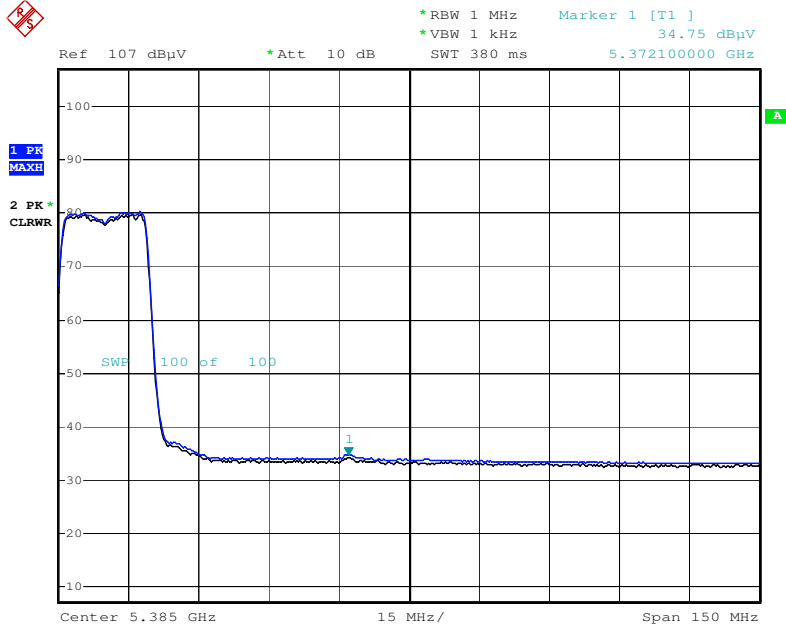
Date: 8.APR.2016 11:44:35

**Radiated Restricted Band Edges plot – Peak Reading (802.11n\_HT20, Ch.64, x-H)**



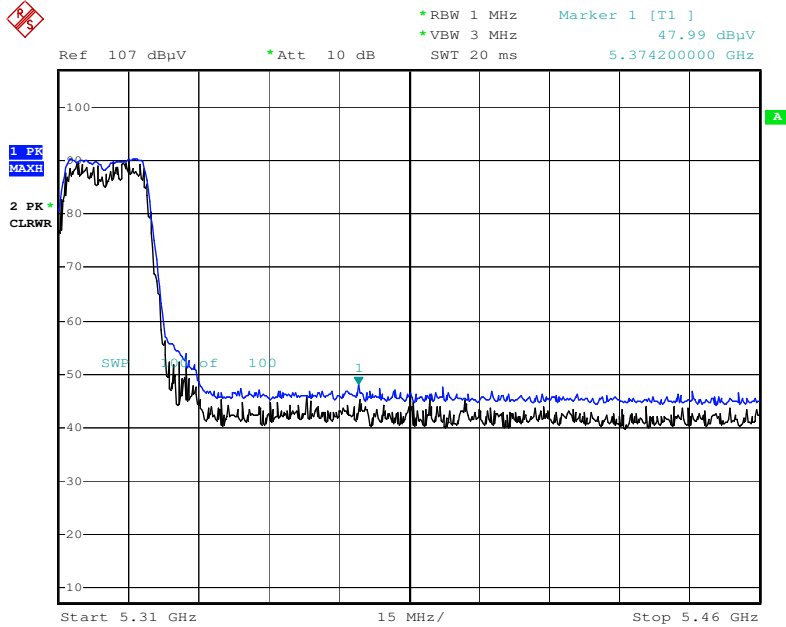
Date: 8.APR.2016 11:43:04

**Radiated Restricted Band Edges plot – Average Reading (802.11ac\_VHT20, Ch.64, x-H)**



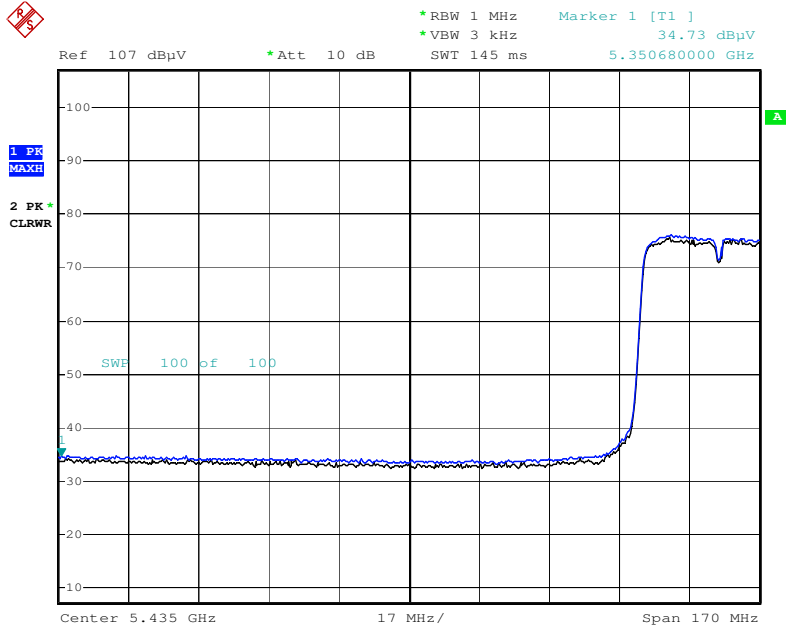
Date: 8.APR.2016 11:53:33

**Radiated Restricted Band Edges plot – Peak Reading (802.11ac\_VHT20, Ch.64, x-H)**



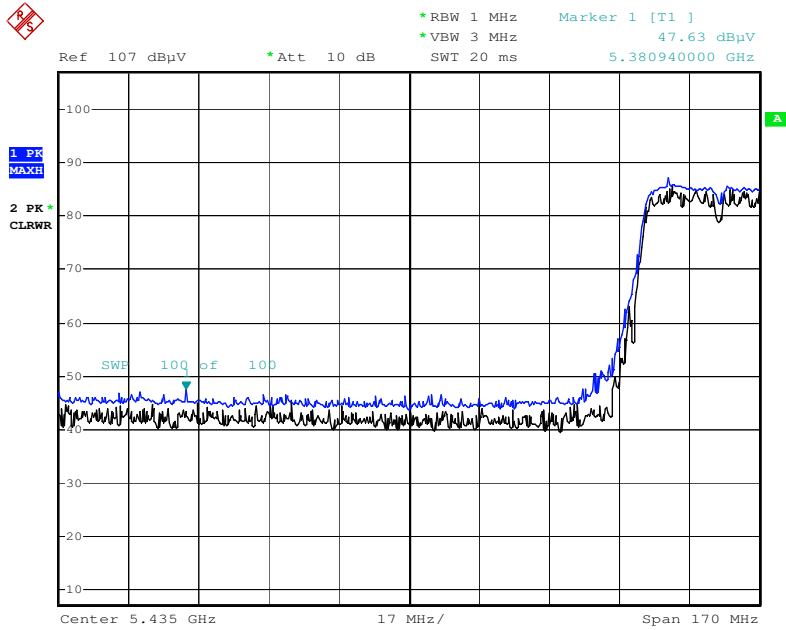
Date: 8.APR.2016 11:55:14

**Radiated Restricted Band Edges plot –Peak Reading (802.11n\_HT40, Ch.102, x-H)**



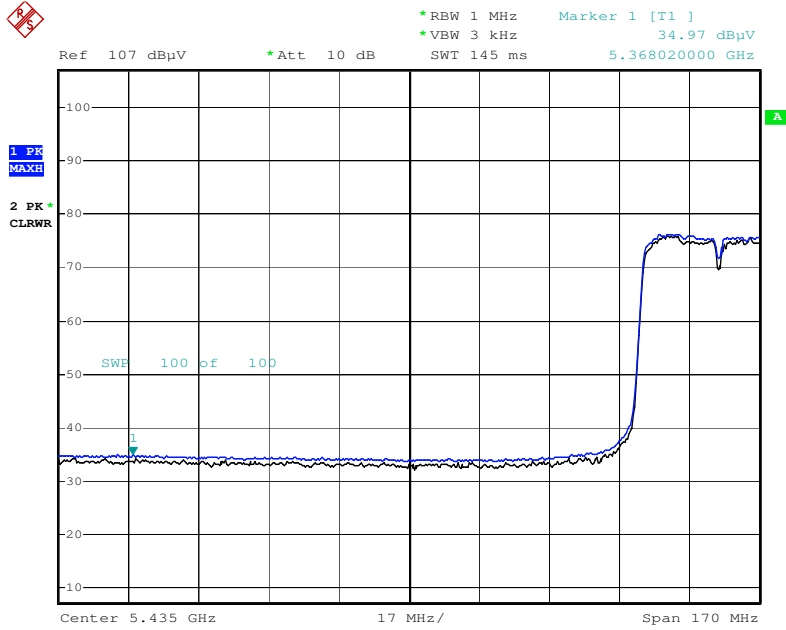
Date: 8.APR.2016 12:04:17

**Radiated Restricted Band Edges plot –PeakReading (802.11n\_HT40, Ch.102, x-H)**



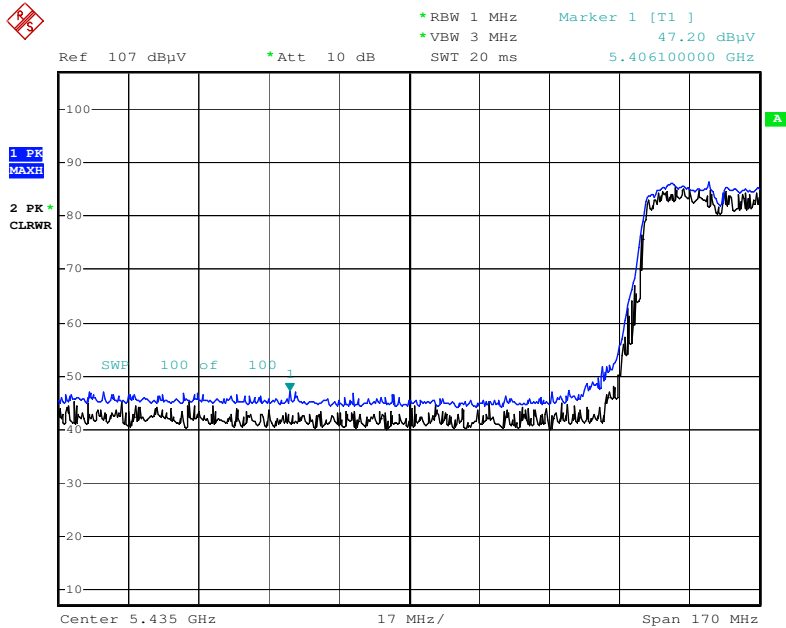
Date: 8.APR.2016 12:04:49

**Radiated Restricted Band Edges plot –Peak Reading (802.11ac\_VHT40, Ch.102, x-H)**



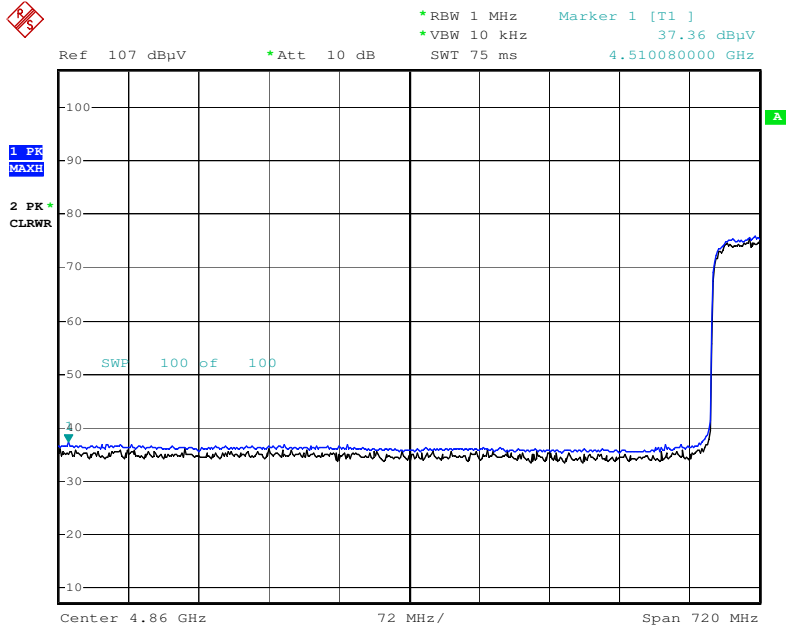
Date: 8.APR.2016 12:19:35

**Radiated Restricted Band Edges plot –PeakReading (802.11ac\_VHT40, Ch.102, x-H)**



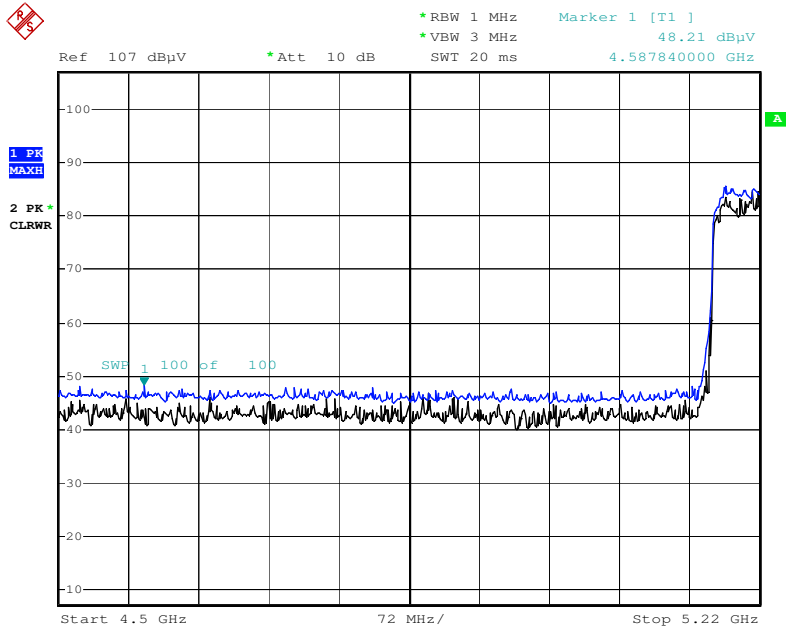
Date: 8.APR.2016 12:07:37

**Radiated Restricted Band Edges plot –AverageReading (802.11ac\_VHT80, Ch.42, x-H)**



Date: 8.APR.2016 12:32:08

**Radiated Restricted Band Edges plot –PeakReading (802.11ac\_VHT80, Ch.42, x-H)**



Date: 8.APR.2016 12:24:35

**Stand alone with quick cover (open)**

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.50	8.18	H	56.68	73.98	17.30	PK
5150	35.34	8.18	H	43.52	53.98	10.46	AV
5150	48.47	8.18	V	56.65	73.98	17.33	PK
5150	35.49	8.18	V	43.67	53.98	10.31	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	47.42	8.18	H	55.60	73.98	18.38	PK
5150	34.70	8.18	H	42.88	53.98	11.10	AV
5150	47.46	8.18	V	55.64	73.98	18.34	PK
5150	34.82	8.18	V	43	53.98	10.98	AV



Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	47.52	8.18	H	55.70	73.98	18.28	PK
5150	34.74	8.18	H	42.92	53.98	11.06	AV
5150	47.67	8.18	V	55.85	73.98	18.13	PK
5150	34.80	8.18	V	42.98	53.98	11.00	AV

Band : UNII 1  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5190 MHz  
 Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	47.33	8.18	H	55.51	73.98	18.47	PK
5150	35.41	8.18	H	43.59	53.98	10.39	AV
5150	47.76	8.18	V	55.94	73.98	18.04	PK
5150	35.52	8.18	V	43.7	53.98	10.28	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5190 MHz  
 Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	47.90	8.18	H	56.08	73.98	17.90	PK
5150	35.32	8.18	H	43.5	53.98	10.48	AV
5150	48.39	8.18	V	56.57	73.98	17.41	PK
5150	35.33	8.18	V	43.51	53.98	10.47	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5210 MHz  
 Channel No. 42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.50	8.18	H	56.68	73.98	17.30	PK
5150	36.95	8.18	H	45.13	53.98	8.85	AV
5150	48.33	8.18	V	56.51	73.98	17.47	PK
5150	37.06	8.18	V	45.24	53.98	8.74	AV

Band : UNII 2A  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.43	8.95	H	56.38	73.98	17.60	PK
5350	35.14	8.95	H	44.09	53.98	9.89	AV
5350	48.26	8.95	V	57.21	73.98	16.77	PK
5350	35.25	8.95	V	44.2	53.98	9.78	AV

Band : UNII 2A  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.50	8.95	H	56.45	73.98	17.53	PK
5350	34.29	8.95	H	43.24	53.98	10.74	AV
5350	47.61	8.95	V	56.56	73.98	17.42	PK
5350	34.43	8.95	V	43.38	53.98	10.60	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.61	8.95	H	56.56	73.98	17.42	PK
5350	34.28	8.95	H	43.23	53.98	10.75	AV
5350	47.88	8.95	V	56.83	73.98	17.15	PK
5350	34.36	8.95	V	43.31	53.98	10.67	AV

Band : UNII 2A  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5310 MHz  
 Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.51	8.95	H	56.46	73.98	17.52	PK
5350	34.61	8.95	H	43.56	53.98	10.42	AV
5350	47.88	8.95	V	56.83	73.98	17.15	PK
5350	34.68	8.95	V	43.63	53.98	10.35	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5310 MHz  
 Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	48.11	8.95	H	57.06	73.98	16.92	PK
5350	34.47	8.95	H	43.42	53.98	10.56	AV
5350	47.52	8.95	V	56.47	73.98	17.51	PK
5350	34.38	8.95	V	43.33	53.98	10.65	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5290 MHz  
 Channel No. 58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.88	8.95	H	56.83	73.98	17.15	PK
5350	36.34	8.95	H	45.29	53.98	8.69	AV
5350	47.90	8.95	V	56.85	73.98	17.13	PK
5350	36.50	8.95	V	45.45	53.98	8.53	AV

Band : UNII 2C  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.38	9.62	H	57.00	73.98	16.98	PK
5460	34.16	9.62	H	43.78	53.98	10.20	AV
5470	47.22	9.52	H	56.74	68.20	11.46	PK
5460	47.45	9.62	V	57.07	73.98	16.91	PK
5460	34.27	9.62	V	43.89	53.98	10.09	AV
5470	47.46	9.52	V	56.98	68.20	11.22	PK

Band : UNII 2C  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.43	10.70	H	57.13	68.20	11.07	PK
5725	46.60	10.70	V	57.3	68.20	10.90	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.10	9.62	H	56.72	73.98	17.26	PK
5460	33.94	9.62	H	43.56	53.98	10.42	AV
5470	47.23	9.52	H	56.75	68.20	11.45	PK
5460	47.26	9.62	V	56.88	73.98	17.10	PK
5460	34.07	9.62	V	43.69	53.98	10.29	AV
5470	46.48	9.52	V	56	68.20	12.20	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	45.82	10.70	H	56.52	68.20	11.68	PK
5725	45.96	10.70	V	56.66	68.20	11.54	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.67	9.62	H	57.29	73.98	16.69	PK
5460	33.98	9.62	H	43.6	53.98	10.38	AV
5470	47.19	9.52	H	56.71	68.20	11.49	PK
5460	48.06	9.62	V	57.68	73.98	16.30	PK
5460	34.05	9.62	V	43.67	53.98	10.31	AV
5470	46.52	9.52	V	56.04	68.20	12.16	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	45.83	10.70	H	56.53	68.20	11.67	PK
5725	45.86	10.70	V	56.56	68.20	11.64	PK



Band : UNII 2C  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5510 MHz  
 Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.16	9.62	H	56.78	73.98	17.20	PK
5460	34.44	9.62	H	44.06	53.98	9.92	AV
5470	47.25	9.52	H	56.77	68.20	11.43	PK
5460	47.34	9.62	V	56.96	73.98	17.02	PK
5460	34.74	9.62	V	44.36	53.98	9.62	AV
5470	48.03	9.52	V	57.55	68.20	10.65	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5670 MHz  
 Channel No. 134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.11	10.70	H	56.81	68.20	11.39	PK
5725	46.20	10.70	V	56.90	68.20	11.30	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5510 MHz  
 Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.28	9.62	H	56.90	73.98	17.08	PK
5460	34.51	9.62	H	44.13	53.98	9.85	AV
5470	47.61	9.52	H	57.13	68.20	11.07	PK
5460	47.23	9.62	V	56.85	73.98	17.13	PK
5460	34.73	9.62	V	44.35	53.98	9.63	AV
5470	47.70	9.52	V	57.22	68.20	10.98	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5670 MHz  
 Channel No. 134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.22	10.70	H	56.92	68.20	11.28	PK
5725	46.40	10.70	V	57.10	68.20	11.10	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5530 MHz  
 Channel No. 106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.51	9.62	H	57.13	73.98	16.85	PK
5460	35.56	9.62	H	45.18	53.98	8.80	AV
5470	47.38	9.52	H	56.9	68.20	11.30	PK
5460	47.49	9.62	V	57.11	73.98	16.87	PK
5460	35.64	9.62	V	45.26	53.98	8.72	AV
5470	47.46	9.52	V	56.98	68.20	11.22	PK

Band : UNII 3  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	57.38	10.70	H	68.08	78.20	10.12	PK
5725	57.63	10.70	V	68.33	78.20	9.87	PK
5715	47.03	10.35	H	57.38	68.20	10.82	PK
5715	47.14	10.35	V	57.49	68.20	10.71	PK

Band : UNII 3  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	47.20	11.47	H	58.67	78.20	19.53	PK
5850	47.01	11.47	V	58.48	78.20	19.72	PK
5860	45.82	11.47	H	57.29	68.20	10.91	PK
5860	46.17	11.47	V	57.64	68.20	10.56	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	48.81	10.70	H	59.51	78.20	18.69	PK
5725	49.14	10.70	V	59.84	78.20	18.36	PK
5715	46.06	10.35	H	56.41	68.20	11.79	PK
5715	46.20	10.35	V	56.55	68.20	11.65	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.21	11.47	H	56.68	78.20	21.52	PK
5850	45.43	11.47	V	56.90	78.20	21.30	PK
5860	45.38	11.47	H	56.85	68.20	11.35	PK
5860	45.40	11.47	V	56.87	68.20	11.33	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	48.76	10.70	H	59.46	78.20	18.74	PK
5725	49.05	10.70	V	59.75	78.20	18.45	PK
5715	46.13	10.35	H	56.48	68.20	11.72	PK
5715	46.16	10.35	V	56.51	68.20	11.69	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.24	11.47	H	56.71	78.20	21.49	PK
5850	45.38	11.47	V	56.85	78.20	21.35	AV
5860	45.44	11.47	H	56.91	68.20	11.29	PK
5860	45.51	11.47	V	56.98	68.20	11.22	AV

Band : UNII 3  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 151 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	51.09	10.70	H	61.79	78.20	16.41	PK
5725	52.32	10.70	V	63.02	78.20	15.18	PK
5715	46.58	10.35	H	56.93	68.20	11.27	PK
5715	46.64	10.35	V	56.99	68.20	11.21	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5795 MHz  
 Channel No. 159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.25	11.47	H	56.72	78.20	21.48	PK
5850	45.47	11.47	V	56.94	78.20	21.26	PK
5860	45.33	11.47	H	56.80	68.20	11.40	PK
5860	45.26	11.47	V	56.73	68.20	11.47	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 151 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	49.74	10.70	H	60.44	78.20	17.76	PK
5725	49.98	10.70	V	60.68	78.20	17.52	PK
5715	46.35	10.35	H	56.70	68.20	11.50	PK
5715	46.50	10.35	V	56.85	68.20	11.35	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5795 MHz  
 Channel No. 159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.41	11.47	H	56.88	78.20	21.32	PK
5850	45.28	11.47	V	56.75	78.20	21.45	AV
5860	44.87	11.47	H	56.34	68.20	11.86	PK
5860	45.06	11.47	V	56.53	68.20	11.67	AV

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 155 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	48.36	10.70	H	59.06	78.20	19.14	PK
5725	48.72	10.70	V	59.42	78.20	18.78	PK
5715	46.14	10.35	H	56.49	68.20	11.71	PK
5715	46.25	10.35	V	56.6	68.20	11.60	PK
5850	45.44	11.47	H	56.91	78.20	21.29	PK
5850	45.57	11.47	V	57.04	78.20	21.16	PK
5860	45.28	11.47	H	56.75	68.20	11.45	PK
5860	45.32	11.47	V	56.79	68.20	11.41	PK

**Notes:**

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.



3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. '\*' is radiated band edge test frequency.(not restricted band emissions)
5. The mark '#' is tested according to II.G.2.c in KDB 789033D02 v01r02

## II. MEASUREMENT PROCEDURES

### G. Unwanted Emission Measurement

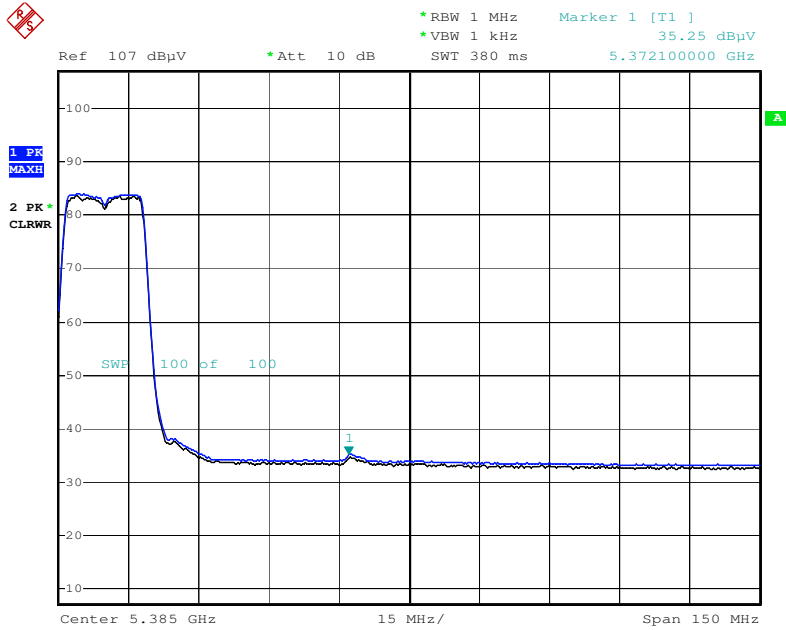
#### 2. Unwanted Emissions that fall Outside of the Restricted Bands

c) At frequencies above 1000 MHz, use the procedure for maximum emissions described in section II.G.5., "Procedure for Unwanted Maximum Unwanted Emissions Measurements Above 1000 MHz".

As specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

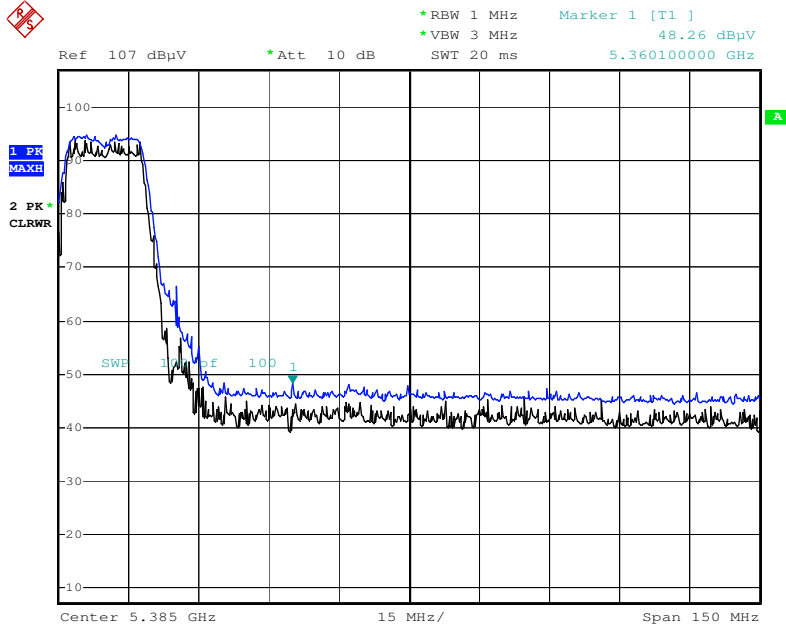
RESULT PLOTS

Radiated Restricted Band Edges plot – Average Reading (802.11a, Ch.64, y-V)



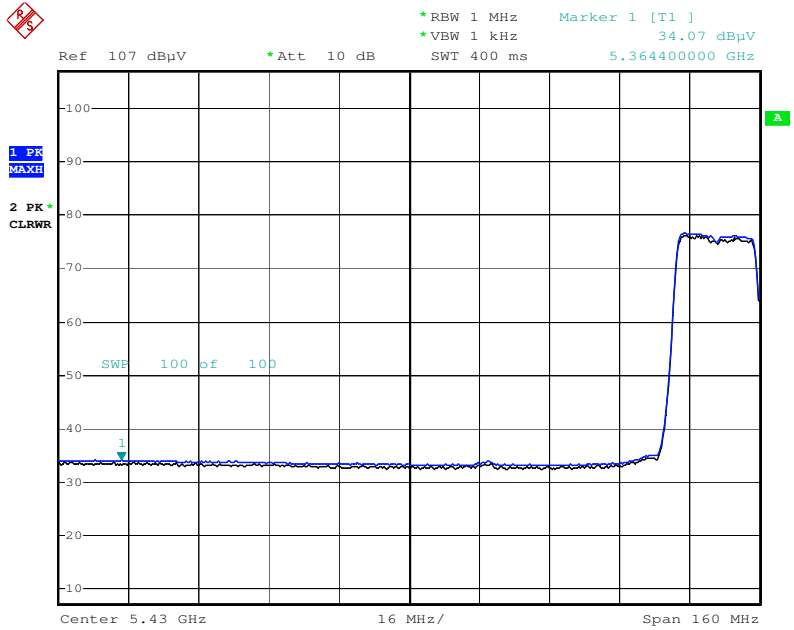
Date: 8.APR.2016 16:16:14

Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.64, y-V)



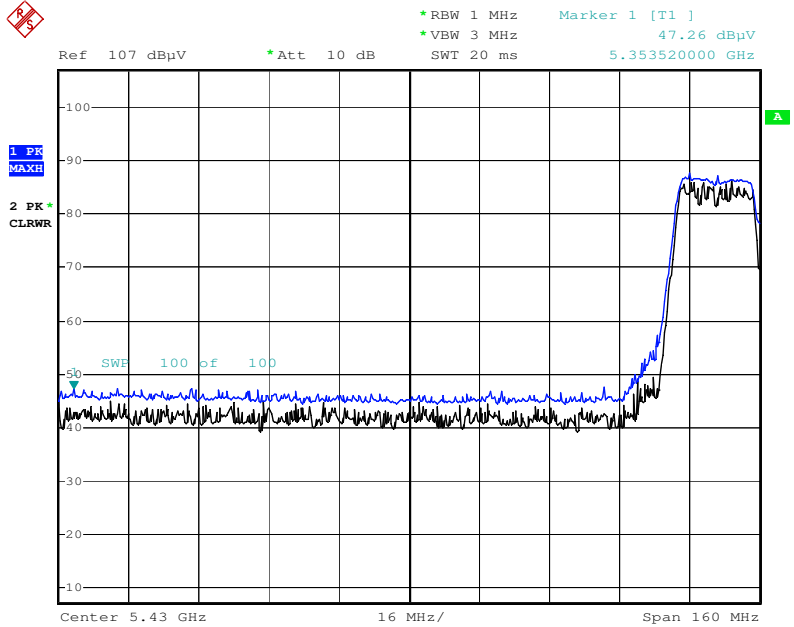
Date: 8.APR.2016 16:07:08

**Radiated Restricted Band Edges plot – Average Reading (802.11n\_HT20, Ch.100, y-V)**



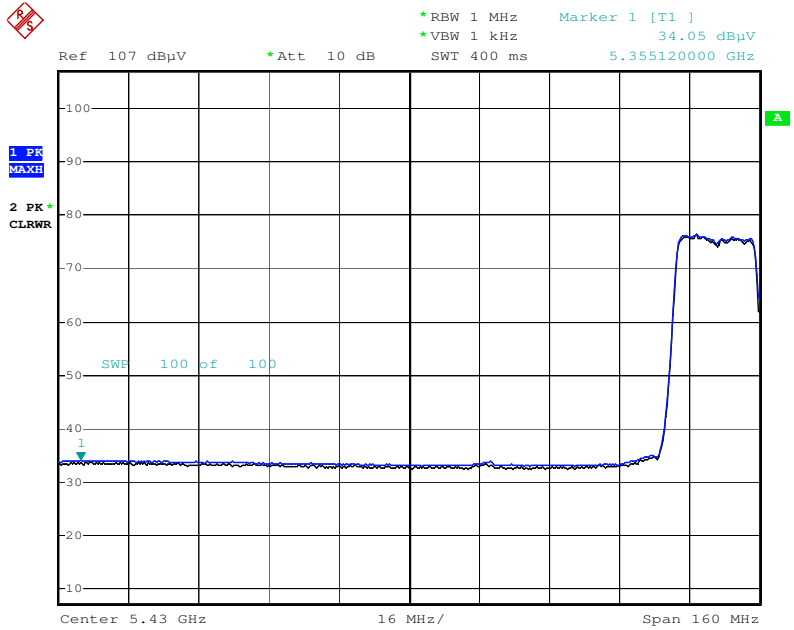
Date: 8.APR.2016 16:28:08

**Radiated Restricted Band Edges plot – Peak Reading (802.11n\_HT20, Ch.100, y-V)**



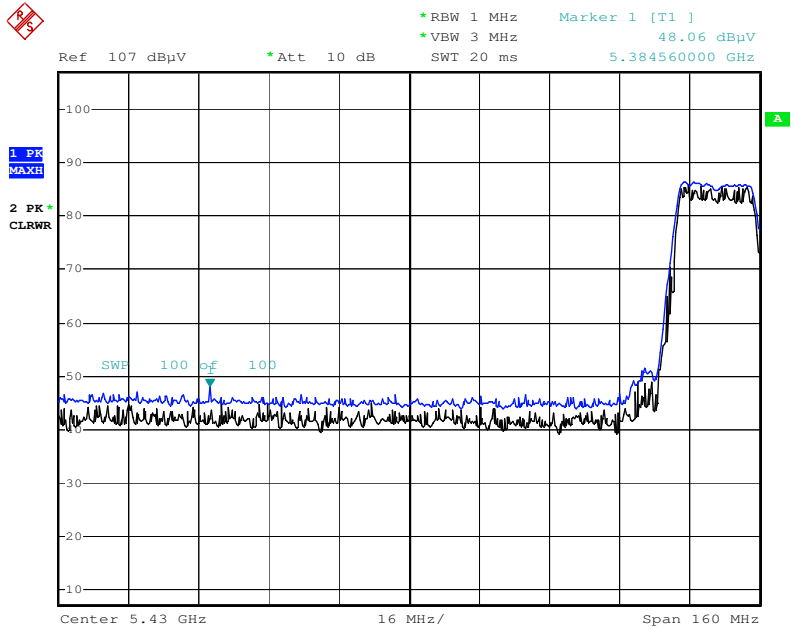
Date: 8.APR.2016 16:29:01

**Radiated Restricted Band Edges plot – Average Reading (802.11ac\_VHT20, Ch.100, y-V)**



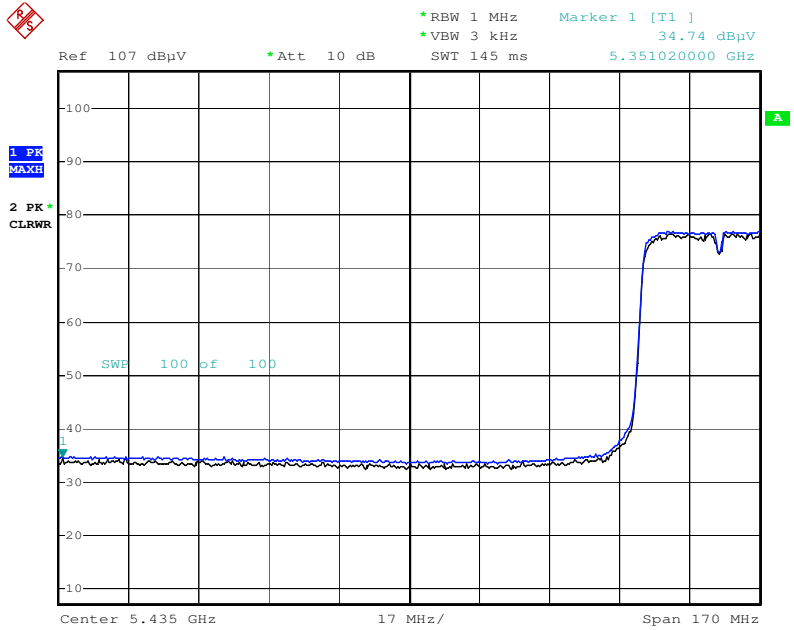
Date: 8.APR.2016 16:31:49

**Radiated Restricted Band Edges plot – Peak Reading (802.11ac\_VHT20, Ch.100, y-V)**



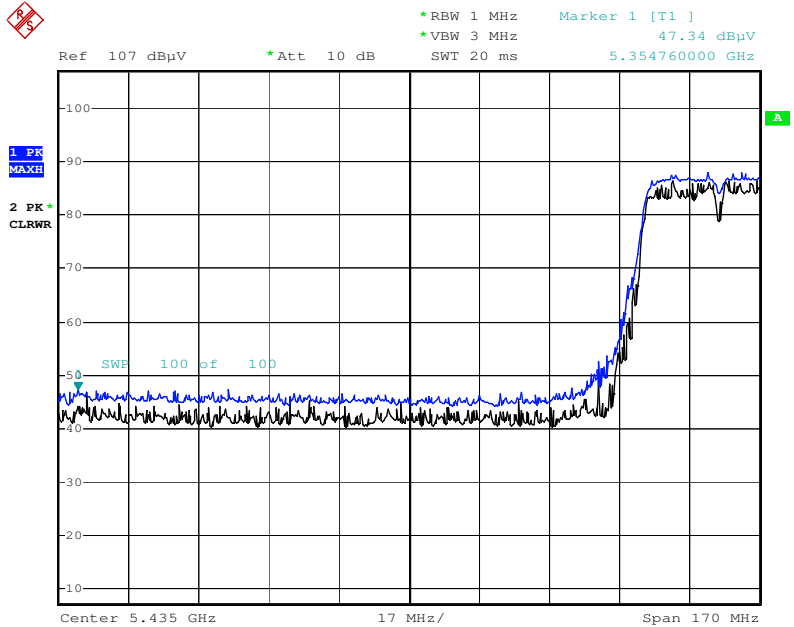
Date: 8.APR.2016 16:30:08

**Radiated Restricted Band Edges plot –Peak Reading (802.11n\_HT40, Ch.102, y-V)**



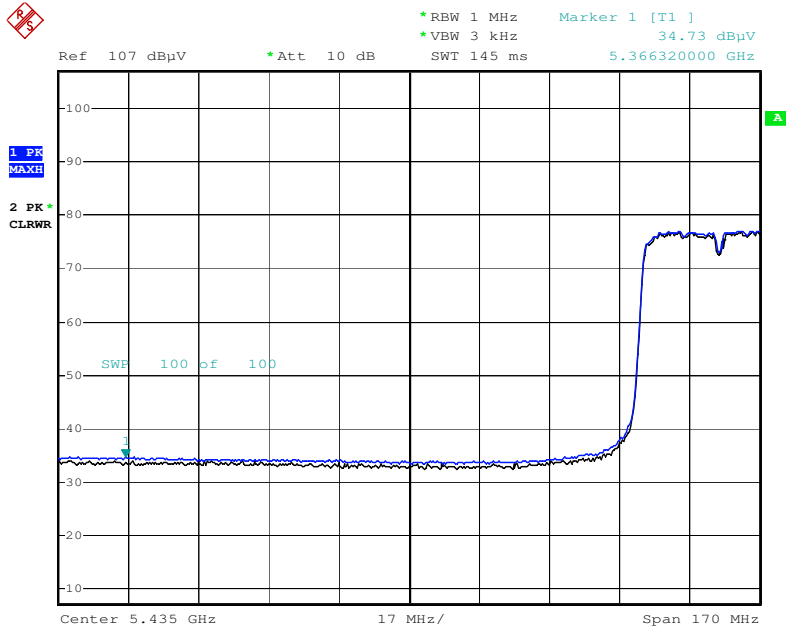
Date: 8.APR.2016 16:44:26

**Radiated Restricted Band Edges plot –PeakReading (802.11n\_HT40, Ch.102, y-V)**



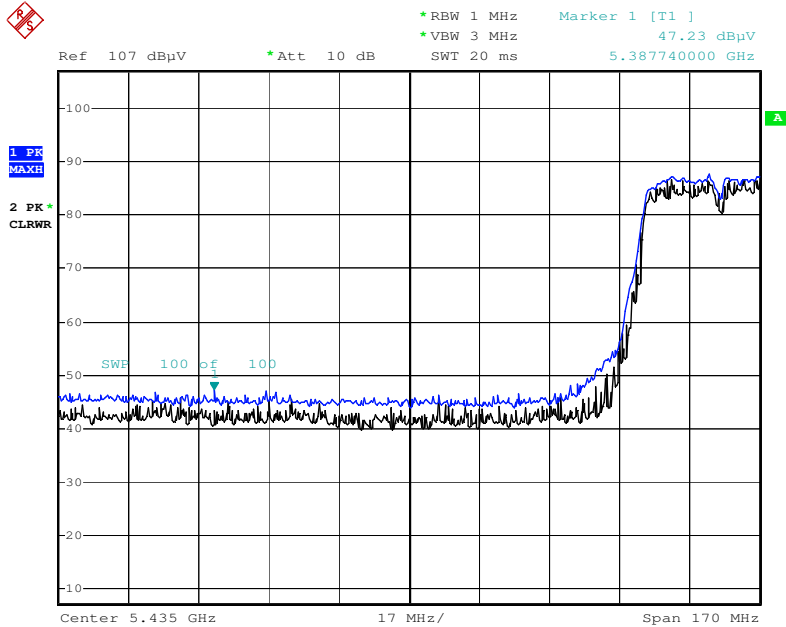
Date: 8.APR.2016 16:44:59

**Radiated Restricted Band Edges plot –Peak Reading (802.11ac\_VHT40, Ch.102, y-V)**



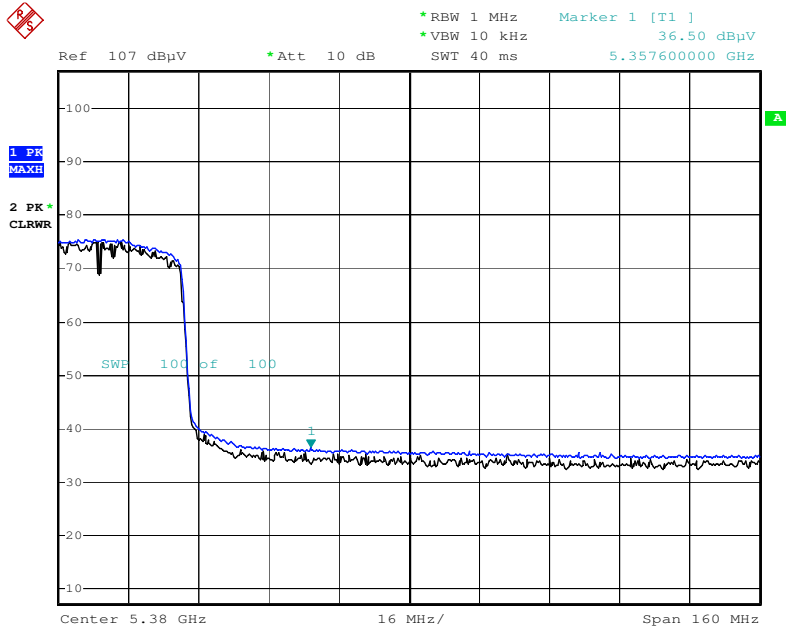
Date: 8.APR.2016 16:47:03

**Radiated Restricted Band Edges plot –PeakReading (802.11ac\_VHT40, Ch.102, y-V)**



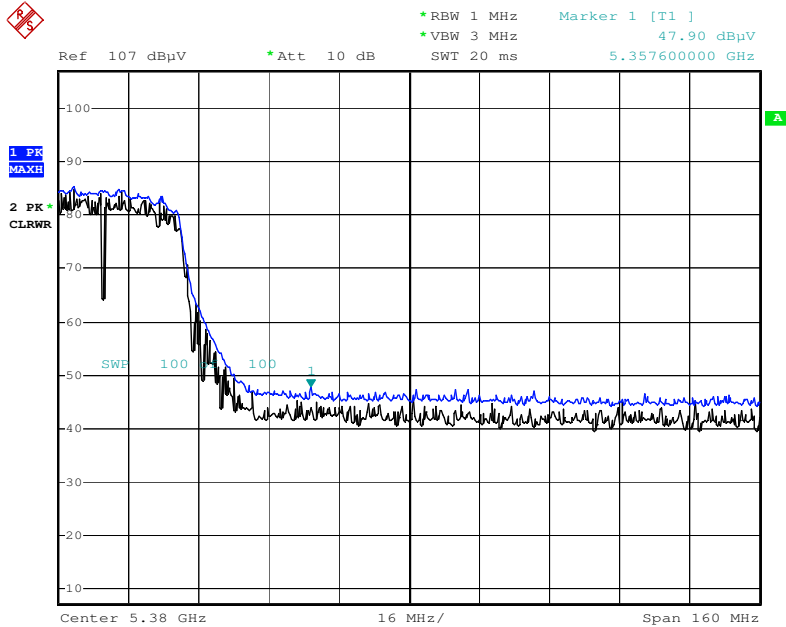
Date: 8.APR.2016 16:45:47

**Radiated Restricted Band Edges plot –AverageReading (802.11ac\_VHT80, Ch.58, y-V)**



Date: 8.APR.2016 16:51:10

**Radiated Restricted Band Edges plot –PeakReading (802.11ac\_VHT80, Ch.58, y-V)**



Date: 8.APR.2016 16:51:51

**Stand alone with quick cover (close)**

Band : UNII 1  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.33	8.18	H	56.51	73.98	17.47	PK
5150	35.56	8.18	H	43.74	53.98	10.24	AV
5150	48.27	8.18	V	56.45	73.98	17.53	PK
5150	35.42	8.18	V	43.6	53.98	10.38	AV

Band : UNII 1  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.11	8.18	H	56.29	73.98	17.69	PK
5150	34.77	8.18	H	42.95	53.98	11.03	AV
5150	47.37	8.18	V	55.55	73.98	18.43	PK
5150	34.72	8.18	V	42.9	53.98	11.08	AV



Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5180 MHz  
 Channel No. 36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	47.89	8.18	H	56.07	73.98	17.91	PK
5150	34.81	8.18	H	42.99	53.98	10.99	AV
5150	48.34	8.18	V	56.52	73.98	17.46	PK
5150	34.75	8.18	V	42.93	53.98	11.05	AV

Band : UNII 1  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5190 MHz  
 Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	47.99	8.18	H	56.17	73.98	17.81	PK
5150	35.45	8.18	H	43.63	53.98	10.35	AV
5150	47.55	8.18	V	55.73	73.98	18.25	PK
5150	35.39	8.18	V	43.57	53.98	10.41	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5190 MHz  
 Channel No. 38 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.23	8.18	H	56.41	73.98	17.57	PK
5150	35.29	8.18	H	43.47	53.98	10.51	AV
5150	47.82	8.18	V	56	73.98	17.98	PK
5150	35.48	8.18	V	43.66	53.98	10.32	AV

Band : UNII 1  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5210 MHz  
 Channel No. 42 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.02	8.18	H	56.20	73.98	17.78	PK
5150	36.90	8.18	H	45.08	53.98	8.90	AV
5150	47.76	8.18	V	55.94	73.98	18.04	PK
5150	36.74	8.18	V	44.92	53.98	9.06	AV

Band : UNII 2A  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.40	8.95	H	56.35	73.98	17.63	PK
5350	35.19	8.95	H	44.14	53.98	9.84	AV
5350	47.73	8.95	V	56.68	73.98	17.30	PK
5350	35.06	8.95	V	44.01	53.98	9.97	AV

Band : UNII 2A  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.83	8.95	H	56.78	73.98	17.20	PK
5350	34.54	8.95	H	43.49	53.98	10.49	AV
5350	47.44	8.95	V	56.39	73.98	17.59	PK
5350	34.37	8.95	V	43.32	53.98	10.66	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5320 MHz  
 Channel No. 64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.71	8.95	H	56.66	73.98	17.32	PK
5350	34.41	8.95	H	43.36	53.98	10.62	AV
5350	47.19	8.95	V	56.14	73.98	17.84	PK
5350	34.31	8.95	V	43.26	53.98	10.72	AV

Band : UNII 2A  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5310 MHz  
 Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.72	8.95	H	56.67	73.98	17.31	PK
5350	34.69	8.95	H	43.64	53.98	10.34	AV
5350	47.46	8.95	V	56.41	73.98	17.57	PK
5350	34.43	8.95	V	43.38	53.98	10.60	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5310 MHz  
 Channel No. 62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.45	8.95	H	56.40	73.98	17.58	PK
5350	34.44	8.95	H	43.39	53.98	10.59	AV
5350	47.22	8.95	V	56.17	73.98	17.81	PK
5350	34.51	8.95	V	43.46	53.98	10.52	AV

Band : UNII 2A  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5290 MHz  
 Channel No. 58 Ch

Frequency [MHz]	Reading dBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.61	8.95	H	56.56	73.98	17.42	PK
5350	36.32	8.95	H	45.27	53.98	8.71	AV
5350	46.91	8.95	V	55.86	73.98	18.12	PK
5350	36.25	8.95	V	45.2	53.98	8.78	AV

Band : UNII 2C  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.65	9.62	H	57.27	73.98	16.71	PK
5460	34.58	9.62	H	44.2	53.98	9.78	AV
5470	47.06	9.52	H	56.58	68.20	11.62	PK
5460	47.41	9.62	V	57.03	73.98	16.95	PK
5460	34.33	9.62	V	43.95	53.98	10.03	AV
5470	47.01	9.52	V	56.53	68.20	11.67	PK

Band : UNII 2C  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.57	10.70	H	57.27	68.20	10.93	PK
5725	46.40	10.70	V	57.1	68.20	11.10	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.21	9.62	H	56.83	73.98	17.15	PK
5460	33.85	9.62	H	43.47	53.98	10.51	AV
5470	47.28	9.52	H	56.8	68.20	11.40	PK
5460	47.09	9.62	V	56.71	73.98	17.27	PK
5460	33.73	9.62	V	43.35	53.98	10.63	AV
5470	46.62	9.52	V	56.14	68.20	12.06	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.01	10.70	H	56.71	68.20	11.49	PK
5725	45.75	10.70	V	56.45	68.20	11.75	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.34	9.62	H	56.96	73.98	17.02	PK
5460	33.66	9.62	H	43.28	53.98	10.70	AV
5470	47.10	9.52	H	56.62	68.20	11.58	PK
5460	47.13	9.62	V	56.75	73.98	17.23	PK
5460	33.51	9.62	V	43.13	53.98	10.85	AV
5470	47.35	9.52	V	56.87	68.20	11.33	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5700 MHz  
 Channel No. 140 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.44	10.70	H	57.14	68.20	11.06	PK
5725	46.45	10.70	V	57.15	68.20	11.05	PK



Band : UNII 2C  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5510 MHz  
 Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.52	9.62	H	57.14	73.98	16.84	PK
5460	34.71	9.62	H	44.33	53.98	9.65	AV
5470	47.85	9.52	H	57.37	68.20	10.83	PK
5460	47.36	9.62	V	56.98	73.98	17.00	PK
5460	34.55	9.62	V	44.17	53.98	9.81	AV
5470	47.09	9.52	V	56.61	68.20	11.59	PK

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5670 MHz  
 Channel No. 134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.40	10.70	H	57.10	68.20	11.10	PK
5725	46.00	10.70	V	56.70	68.20	11.50	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5510 MHz  
 Channel No. 102 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.37	9.62	H	56.99	73.98	16.99	PK
5460	34.61	9.62	H	44.23	53.98	9.75	AV
5470	47.88	9.52	H	57.4	68.20	10.80	PK
5460	47.18	9.62	V	56.8	73.98	17.18	PK
5460	34.53	9.62	V	44.15	53.98	9.83	AV
5470	47.56	9.52	V	57.08	68.20	11.12	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5670 MHz  
 Channel No. 134 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	46.38	10.70	H	57.08	68.20	11.12	PK
5725	46.12	10.70	V	56.82	68.20	11.38	PK

Band : UNII 2C  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5530 MHz  
 Channel No. 106 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	47.83	9.62	H	57.45	73.98	16.53	PK
5460	35.64	9.62	H	45.26	53.98	8.72	AV
5470	47.87	9.52	H	57.39	68.20	10.81	PK
5460	47.59	9.62	V	57.21	73.98	16.77	PK
5460	35.58	9.62	V	45.2	53.98	8.78	AV
5470	48.04	9.52	V	57.56	68.20	10.64	PK

Band : UNII 3  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	56.30	10.70	H	67.00	78.20	11.20	PK
5725	56.12	10.70	V	66.82	78.20	11.38	PK
5715	46.35	10.35	H	56.70	68.20	11.50	PK
5715	46.18	10.35	V	56.53	68.20	11.67	PK

Band : UNII 3  
 Operation Mode: 802.11 a  
 Transfer Rate: 6 Mbps  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	47.89	11.47	H	59.36	78.20	18.84	PK
5850	47.66	11.47	V	59.13	78.20	19.07	PK
5860	45.64	11.47	H	57.11	68.20	11.09	PK
5860	45.71	11.47	V	57.18	68.20	11.02	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	48.21	10.70	H	58.91	78.20	19.29	PK
5725	47.83	10.70	V	58.53	78.20	19.67	PK
5715	45.97	10.35	H	56.32	68.20	11.88	PK
5715	45.55	10.35	V	55.90	68.20	12.30	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.54	11.47	H	57.01	78.20	21.19	PK
5850	45.06	11.47	V	56.53	78.20	21.67	PK
5860	45.52	11.47	H	56.99	68.20	11.21	PK
5860	45.29	11.47	V	56.76	68.20	11.44	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5745 MHz  
 Channel No. 149 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	47.80	10.70	H	58.50	78.20	19.70	PK
5725	47.51	10.70	V	58.21	78.20	19.99	PK
5715	46.59	10.35	H	56.94	68.20	11.26	PK
5715	46.16	10.35	V	56.51	68.20	11.69	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT20  
 Transfer MCS Index: 0  
 Operating Frequency 5825 MHz  
 Channel No. 165 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.50	11.47	H	56.97	78.20	21.23	PK
5850	45.27	11.47	V	56.74	78.20	21.46	AV
5860	45.46	11.47	H	56.93	68.20	11.27	PK
5860	44.94	11.47	V	56.41	68.20	11.79	AV

Band : UNII 3  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 151 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	50.67	10.70	H	61.37	78.20	16.83	PK
5725	49.95	10.70	V	60.65	78.20	17.55	PK
5715	46.47	10.35	H	56.82	68.20	11.38	PK
5715	46.38	10.35	V	56.73	68.20	11.47	PK

Band : UNII 3  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5795 MHz  
 Channel No. 159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.59	11.47	H	57.06	78.20	21.14	PK
5850	45.38	11.47	V	56.85	78.20	21.35	PK
5860	45.50	11.47	H	56.97	68.20	11.23	PK
5860	45.26	11.47	V	56.73	68.20	11.47	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 151 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	50.31	10.70	H	61.01	78.20	17.19	PK
5725	49.83	10.70	V	60.53	78.20	17.67	PK
5715	46.45	10.35	H	56.80	68.20	11.40	PK
5715	46.37	10.35	V	56.72	68.20	11.48	PK

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT40  
 Transfer MCS Index: 0  
 Operating Frequency 5795 MHz  
 Channel No. 159 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	45.65	11.47	H	57.12	78.20	21.08	PK
5850	45.34	11.47	V	56.81	78.20	21.39	AV
5860	45.43	11.47	H	56.90	68.20	11.30	PK
5860	44.96	11.47	V	56.43	68.20	11.77	AV

Band : UNII 3  
 Operation Mode: 802.11 ac\_VHT80  
 Transfer MCS Index: 0  
 Operating Frequency 5755 MHz  
 Channel No. 155 Ch

Frequency [MHz]	Reading DBuV	AN.+CL+AMP+ATT. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	48.66	10.70	H	59.36	78.20	18.84	PK
5725	48.35	10.70	V	59.05	78.20	19.15	PK
5715	46.33	10.35	H	56.68	68.20	11.52	PK
5715	45.97	10.35	V	56.32	68.20	11.88	PK
5850	46.17	11.47	H	57.64	78.20	20.56	PK
5850	45.89	11.47	V	57.36	78.20	20.84	PK
5860	45.66	11.47	H	57.13	68.20	11.07	PK
5860	45.54	11.47	V	57.01	68.20	11.19	PK

**Notes:**

1. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain + ATT
2. We have done all data rate in 802.11a/n/ac mode test. . Worst case of EUT is lowest data rate in 802.11a/n/ac.



3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. '\*' is radiated band edge test frequency.(not restricted band emissions)
5. The mark '#' is tested according to II.G.2.c in KDB 789033D02 v01r02

## II. MEASUREMENT PROCEDURES

### G. Unwanted Emission Measurement

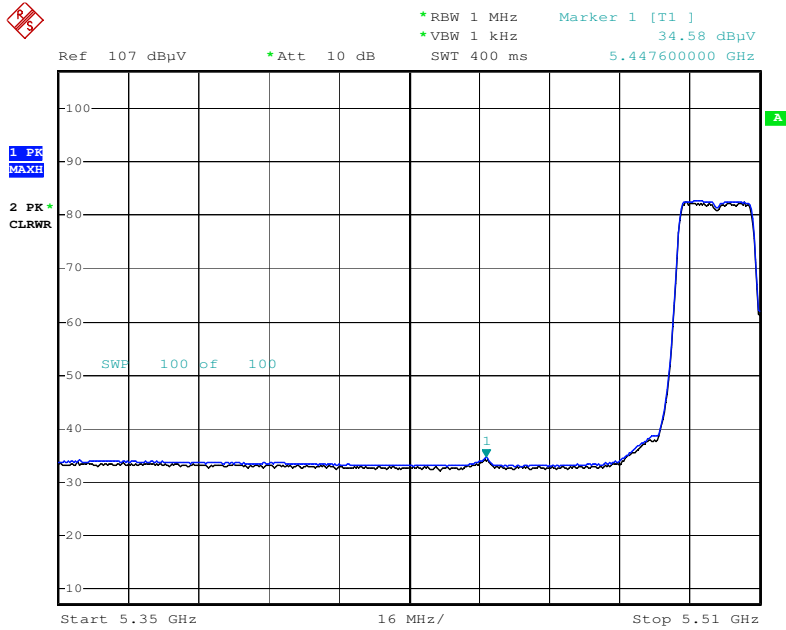
#### 2. Unwanted Emissions that fall Outside of the Restricted Bands

c) At frequencies above 1000 MHz, use the procedure for maximum emissions described in section II.G.5., "Procedure for Unwanted Maximum Unwanted Emissions Measurements Above 1000 MHz".

As specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

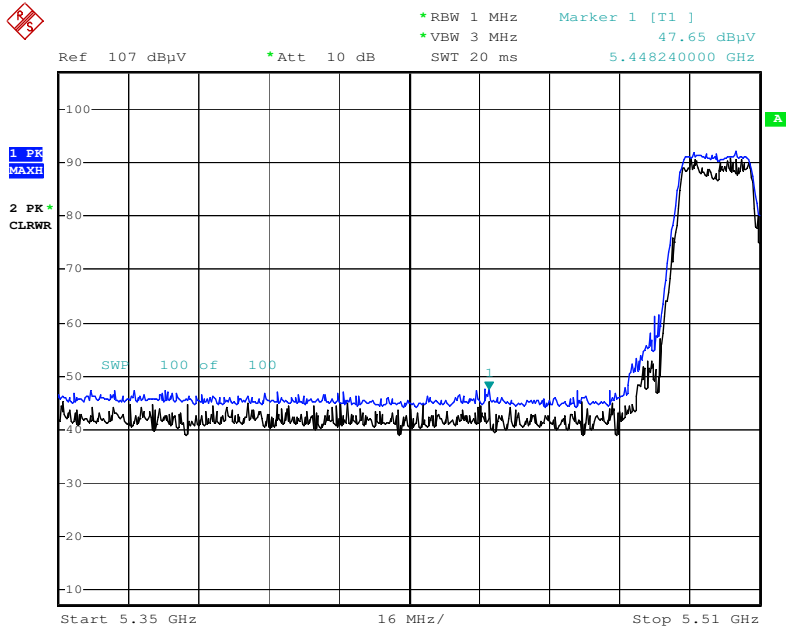
RESULT PLOTS

Radiated Restricted Band Edges plot – Average Reading (802.11a, Ch.100, x-H)



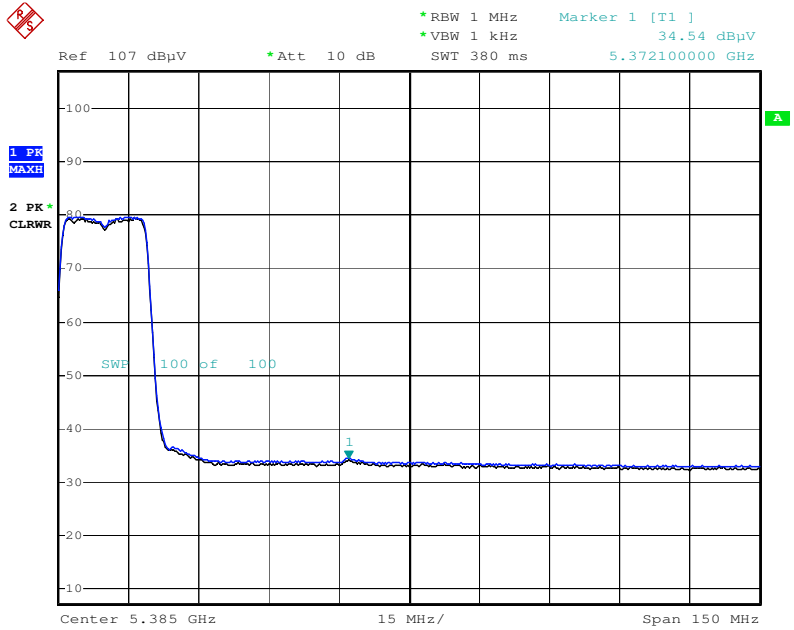
Date: 8.APR.2016 15:09:25

Radiated Restricted Band Edges plot – Peak Reading (802.11a, Ch.100, x-H)



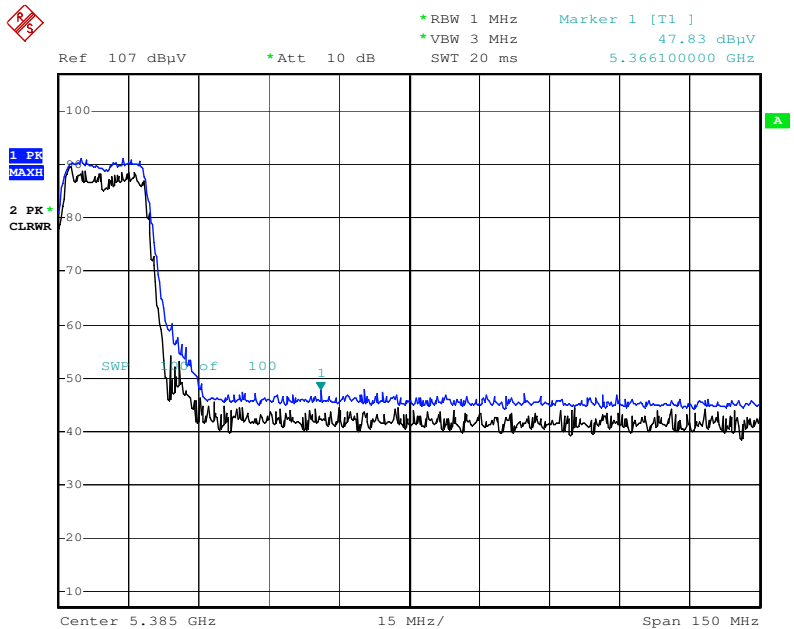
Date: 8.APR.2016 15:04:15

**Radiated Restricted Band Edges plot – Average Reading (802.11n\_HT20, Ch.64, x-H)**



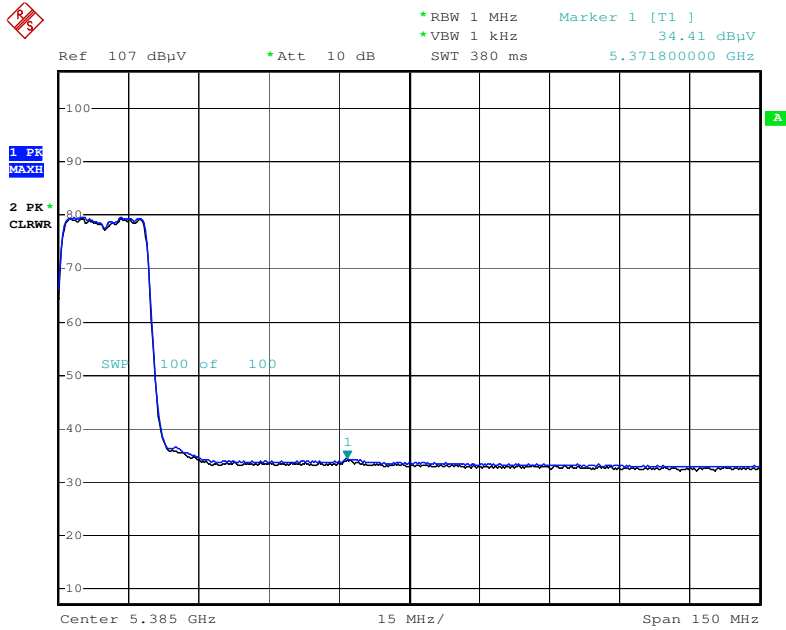
Date: 8.APR.2016 15:13:51

**Radiated Restricted Band Edges plot – Peak Reading (802.11n\_HT20, Ch.64, x-H)**



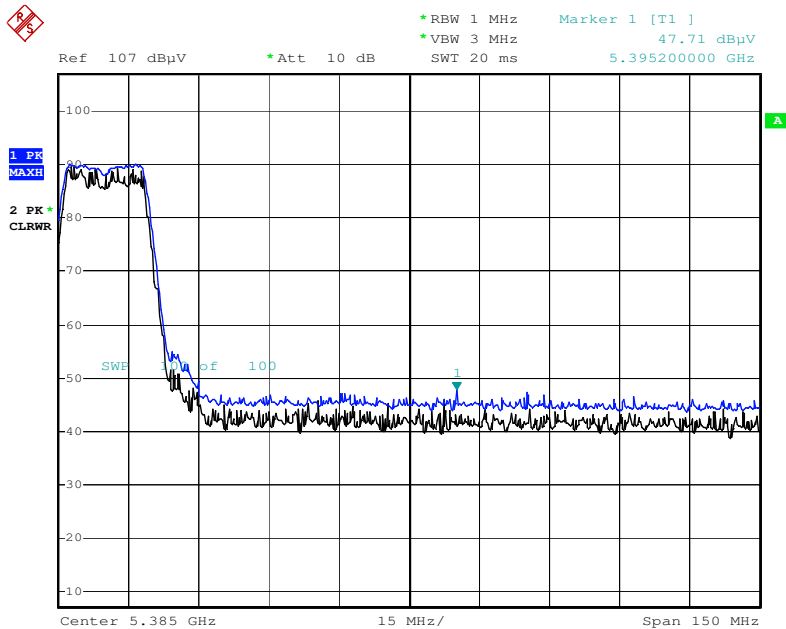
Date: 8.APR.2016 15:14:51

**Radiated Restricted Band Edges plot – Average Reading (802.11ac\_VHT20, Ch.64, x-H)**



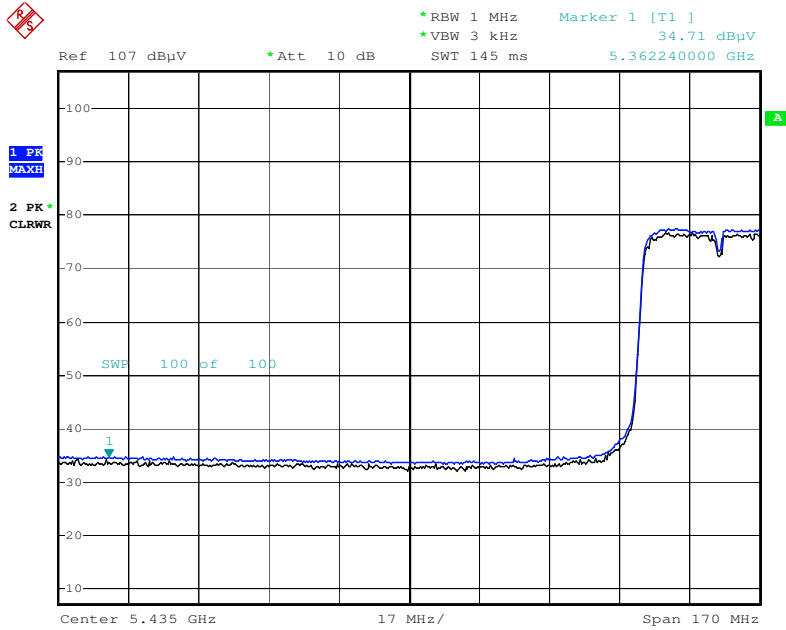
Date: 8.APR.2016 15:17:36

**Radiated Restricted Band Edges plot – Peak Reading (802.11ac\_VHT20, Ch.64, x-H)**



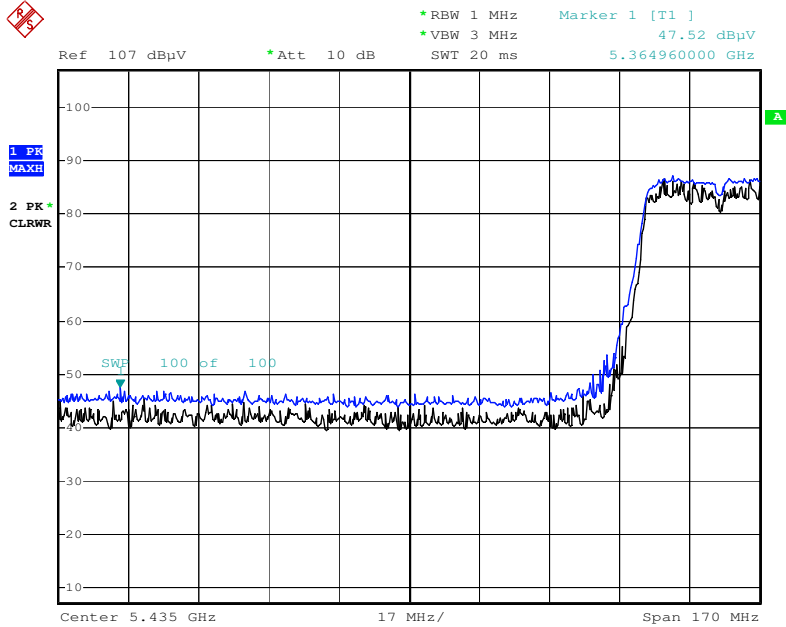
Date: 8.APR.2016 15:15:55

**Radiated Restricted Band Edges plot –Peak Reading (802.11n\_HT40, Ch.102, x-H)**



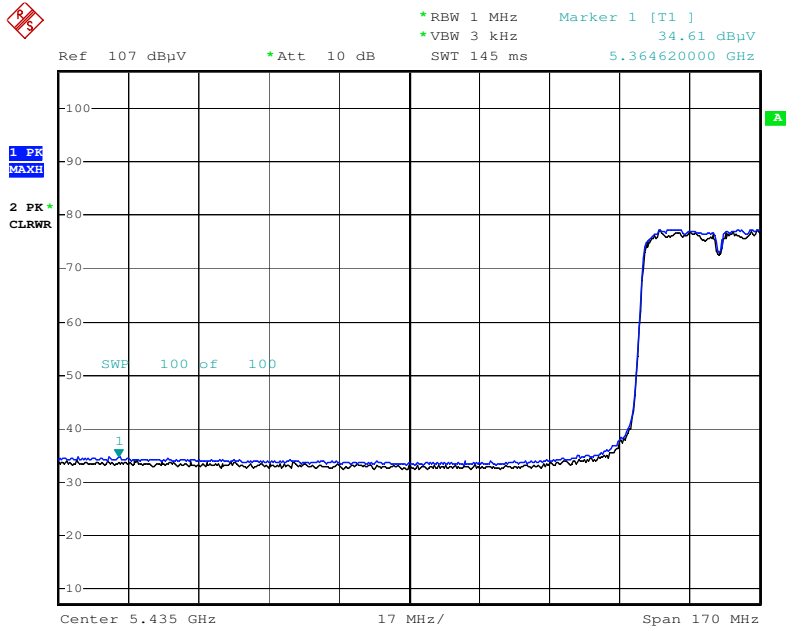
Date: 8.APR.2016 15:40:06

**Radiated Restricted Band Edges plot –PeakReading (802.11n\_HT40, Ch.102, x-H)**



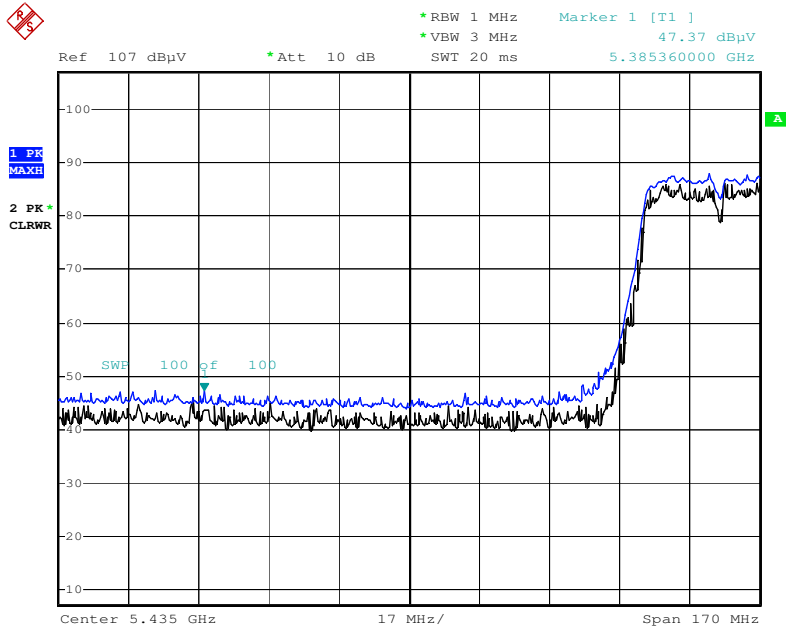
Date: 8.APR.2016 15:34:20

**Radiated Restricted Band Edges plot –Peak Reading (802.11ac\_VHT40, Ch.102, x-H)**



Date: 8.APR.2016 15:41:32

**Radiated Restricted Band Edges plot –PeakReading (802.11ac\_VHT40, Ch.102, x-H)**



Date: 8.APR.2016 15:42:12



## 9.7 POWERLINE CONDUCTED EMISSIONS

### Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBµV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

### Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

### TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference groundplane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

### Sample Calculation

Quasi-peak(Final Result) = Reading Value + Correction Factor



**RESULT PLOTS**

**Conducted Emissions (Line 1)**

WLAN MODE 5G N

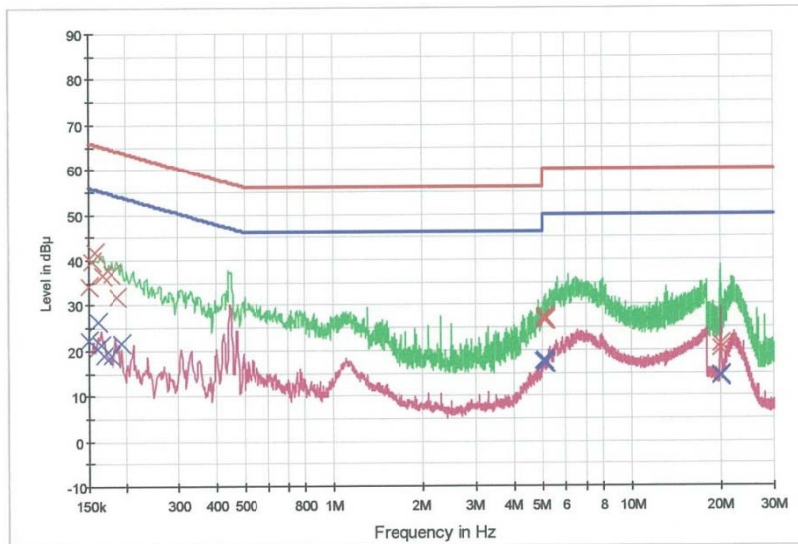
1 / 2

**HCT TEST Report**

**Common Information**

EUT: DM-02H  
 Manufacturer: LG  
 Test Site: SHIELD ROOM  
 Operating Conditions: WLAN MODE\_5G

FCC CLASS B



— FCC CLASS B\_QP     — FCC CLASS B\_AV     — Preview Result 1-PK+  
— Preview Result 2-AVG     x Final Result 1-QPK     x Final Result 2-CAV

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	34.1	9.000	Off	N	9.6	31.9	66.0
0.154000	39.6	9.000	Off	N	9.6	26.2	65.8
0.158000	41.7	9.000	Off	N	9.6	23.9	65.6
0.166000	36.5	9.000	Off	N	9.6	28.7	65.2
0.178000	36.8	9.000	Off	N	9.6	27.8	64.6
0.188000	31.9	9.000	Off	N	9.6	32.2	64.1
5.070000	27.3	9.000	Off	N	9.8	32.7	60.0
5.074000	27.2	9.000	Off	N	9.8	32.8	60.0
5.082000	27.6	9.000	Off	N	9.8	32.4	60.0
5.100000	26.8	9.000	Off	N	9.8	33.2	60.0
5.120000	26.7	9.000	Off	N	9.8	33.3	60.0
5.124000	26.9	9.000	Off	N	9.8	33.1	60.0
19.810000	20.4	9.000	Off	N	10.3	39.6	60.0
19.820000	20.4	9.000	Off	N	10.3	39.6	60.0
19.862000	20.4	9.000	Off	N	10.3	39.6	60.0
19.868000	20.4	9.000	Off	N	10.3	39.6	60.0
20.016000	21.1	9.000	Off	N	10.3	38.9	60.0
20.022000	21.2	9.000	Off	N	10.3	38.8	60.0

**Final Result 2**

2016-04-13

오전 11:23:40

WLAN MODE 5G N

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Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	22.3	9.000	Off	N	9.6	33.7	56.0
0.160000	26.3	9.000	Off	N	9.6	29.2	55.5
0.164000	21.3	9.000	Off	N	9.6	33.9	55.3
0.168000	18.9	9.000	Off	N	9.6	36.2	55.1
0.178000	19.0	9.000	Off	N	9.6	35.6	54.6
0.194000	21.6	9.000	Off	N	9.6	32.3	53.9
5.022000	17.5	9.000	Off	N	9.8	32.5	50.0
5.056000	17.6	9.000	Off	N	9.8	32.4	50.0
5.082000	17.8	9.000	Off	N	9.8	32.2	50.0
5.098000	17.0	9.000	Off	N	9.8	33.0	50.0
5.118000	17.1	9.000	Off	N	9.8	32.9	50.0
5.124000	17.4	9.000	Off	N	9.8	32.6	50.0
19.810000	14.3	9.000	Off	N	10.3	35.7	50.0
19.820000	14.2	9.000	Off	N	10.3	35.8	50.0
19.824000	14.3	9.000	Off	N	10.3	35.7	50.0
19.862000	14.2	9.000	Off	N	10.3	35.8	50.0
19.868000	14.3	9.000	Off	N	10.3	35.7	50.0
19.902000	14.5	9.000	Off	N	10.3	35.5	50.0

**Conducted Emissions (Line 2)**

WLAN MODE 5G L1

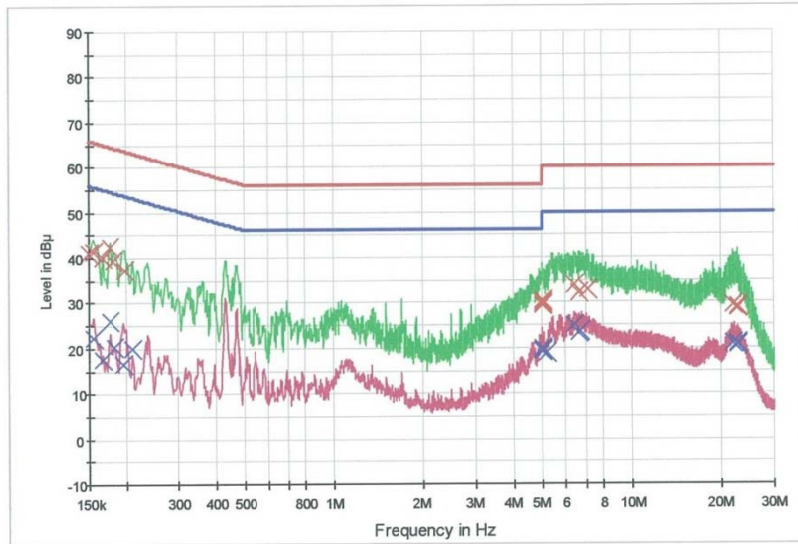
1 / 2

**HCT TEST Report**

**Common Information**

EUT: DM-02H  
 Manufacturer: LG  
 Test Site: SHIELD ROOM  
 Operating Conditions: WLAN MODE \_ 5G

FCC CLASS B



— FCC CLASS B\_QP      — FCC CLASS B\_AV      — Preview Result 1-PK+  
 — Preview Result 2-AVG      × Final Result 1-QPK      × Final Result 2-CAV

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	41.2	9.000	Off	L1	9.7	24.8	66.0
0.156000	41.5	9.000	Off	L1	9.6	24.2	65.7
0.166000	39.9	9.000	Off	L1	9.6	25.3	65.2
0.176000	42.4	9.000	Off	L1	9.6	22.2	64.7
0.180000	39.2	9.000	Off	L1	9.6	25.3	64.5
0.198000	37.2	9.000	Off	L1	9.6	26.4	63.7
4.986000	30.0	9.000	Off	L1	9.9	26.0	56.0
4.992000	29.9	9.000	Off	L1	9.9	26.1	56.0
5.004000	29.7	9.000	Off	L1	9.9	30.3	60.0
5.008000	29.4	9.000	Off	L1	9.9	30.6	60.0
5.012000	30.3	9.000	Off	L1	9.9	29.7	60.0
5.026000	30.5	9.000	Off	L1	9.9	29.5	60.0
6.436000	33.9	9.000	Off	L1	9.9	26.1	60.0
6.614000	32.3	9.000	Off	L1	9.9	27.7	60.0
7.138000	32.8	9.000	Off	L1	9.9	27.2	60.0
21.986000	29.4	9.000	Off	L1	10.3	30.6	60.0
22.584000	29.1	9.000	Off	L1	10.3	30.9	60.0
22.782000	28.6	9.000	Off	L1	10.3	31.4	60.0

**Final Result 2**

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WLAN MODE 5G L1

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Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.156000	22.3	9.000	Off	L1	9.6	33.4	55.7
0.166000	17.6	9.000	Off	L1	9.6	37.6	55.2
0.176000	25.9	9.000	Off	L1	9.6	28.8	54.7
0.182000	20.4	9.000	Off	L1	9.6	34.0	54.4
0.196000	16.5	9.000	Off	L1	9.6	37.2	53.8
0.210000	20.0	9.000	Off	L1	9.6	33.2	53.2
4.986000	19.7	9.000	Off	L1	9.9	26.3	46.0
4.992000	20.0	9.000	Off	L1	9.9	26.0	46.0
5.004000	19.6	9.000	Off	L1	9.9	30.4	50.0
5.008000	19.7	9.000	Off	L1	9.9	30.3	50.0
5.012000	19.4	9.000	Off	L1	9.9	30.6	50.0
5.190000	19.0	9.000	Off	L1	9.9	31.0	50.0
6.444000	24.9	9.000	Off	L1	9.9	25.1	50.0
6.614000	23.5	9.000	Off	L1	9.9	26.5	50.0
6.686000	23.6	9.000	Off	L1	9.9	26.4	50.0
21.986000	21.1	9.000	Off	L1	10.3	28.9	50.0
22.584000	20.9	9.000	Off	L1	10.3	29.1	50.0
22.782000	20.5	9.000	Off	L1	10.3	29.5	50.0

## 10. LIST OF TEST EQUIPMENT

### 10.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216/ LISN	12/28/2015	Annual	100073
Rohde & Schwarz	ESCI / TEST RECEIVER	12/28/2015	Annual	100584
Agilent	E4440A/ Spectrum Analyzer	03/08/2016	Annual	US45303008
Agilent	N9020A/ SIGNAL ANALYZER	06/30/2015	Annual	MY51110085
Agilent	N9030A/ SIGNAL ANALYZER	11/24/2015	Annual	MY49431210
Agilent	N1911A/Power Meter	07/09/2015	Annual	MY45100523
Agilent	N1921A /Power Sensor	03/11/2016	Annual	MY52260025
Agilent	87300B/Directional Coupler	11/30/2015	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/15/2015	Annual	5001
Hewlett Packard	E3632A / DC POWER SUPPLY	03/09/2016	Annual	KR75303962
Agilent	8493C / Attenuator(10 dB)	07/23/2015	Annual	07560
Rohde & Schwarz	CBT / BLUETOOTH TESTER	05/11/2015	Annual	100422
ESPAC.	SH-642 / Temp & Humidity Chamber	07/23/2015	Annual	93000717

**10.2 LIST OF TEST EQUIPMENT(Radiated Test)**

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Schwarzbeck	VULB 9160/ TRILOG Antenna	10/10/2014	Biennial	3368
Audix	AM4000 / Antenna Position Tower	N/A	N/A	N/A
Audix	Turn Table	N/A	N/A	N/A
Audix	EM1000 / Controller	N/A	N/A	060520
Schwarzbeck	BBHA 9120D/ Horn Antenna	05/07/2015	Biennial	937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	09/03/2015	Biennial	BBHA9170541
Rohde & Schwarz	FSP / Spectrum Analyzer	09/24/2015	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/23/2015	Annual	101068-SZ
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	06/29/2015	Annual	8
Wainwright Instrument	WHKX8-6090-7000-18000-40SS/ High Pass Filter	08/05/2015	Annual	5
Wainwright Instrument	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/16/2016	Annual	2
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	06/15/2015	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	08/20/2015	Annual	76649
Rohde & Schwarz	LOOP ANTENNA	02/23/2016	Biennial	1513-175
CERNEX	CBL26405040 / POWER AMP	07/21/2015	Annual	19660
CERNEX	CBLU1183540 / POWER AMP	07/21/2015	Annual	22964
CERNEX	CBL18265035 / POWER AMP	07/27/2015	Annual	22966
CERNEX	CBL06185030 / POWER AMP	07/21/2015	Annual	22965