

802.11n(HT40) UNII 2C Band



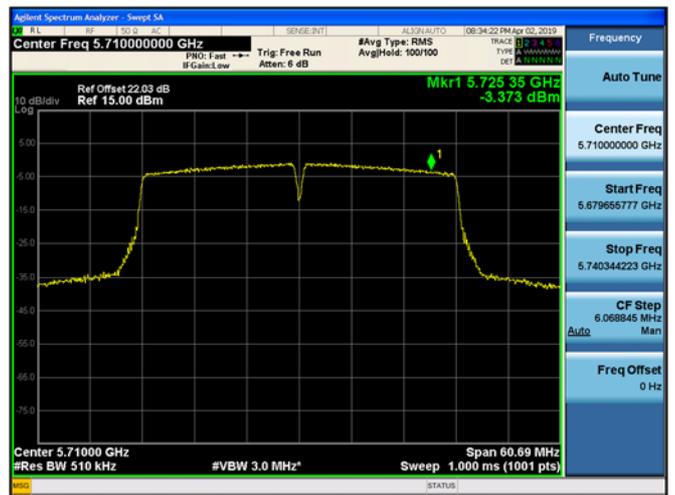
802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[Ant2]

Test Plots



802.11n(HT40) UNII 2C Band



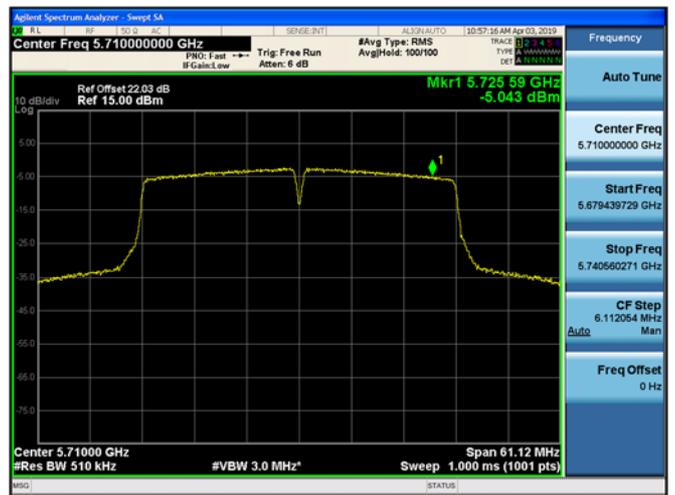
802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. The test results for below 30 MHz is correlated to an open site.
The result on OFS is about 2 dB higher than semi-anechoic chamber(10 m chamber)

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

Frequency Range : Above 1 GHz

[Only MIMO]

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	59.76	4.10	V	63.86	68.20	4.34	PK
15540	54.97	5.36	V	60.33	73.98	13.65	PK
15540	40.63	5.36	V	45.99	53.98	7.99	AV
10360	59.11	4.10	H	63.21	68.20	4.99	PK
15540	54.84	5.36	H	60.20	73.98	13.78	PK
15540	40.51	5.36	H	45.87	53.98	8.11	AV

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	60.68	3.87	V	64.55	68.20	3.65	PK
15600	53.96	4.75	V	58.71	73.98	15.27	PK
15600	37.71	4.75	V	42.46	53.98	11.52	AV
10400	59.42	3.87	H	63.29	68.20	4.91	PK
15600	53.88	4.75	H	58.63	73.98	15.35	PK
15600	37.56	4.75	H	42.31	53.98	11.67	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 1
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	59.63	4.52	V	64.15	68.20	4.05	PK
15720	47.82	3.58	V	51.40	73.98	22.58	PK
15720	34.42	3.58	V	38.00	53.98	15.98	AV
10480	59.48	4.52	H	64.00	68.20	4.20	PK
15720	47.69	3.58	H	51.27	73.98	22.71	PK
15720	34.28	3.58	H	37.86	53.98	16.12	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	59.63	4.10	V	63.73	68.20	4.47	PK
15540	54.68	5.36	V	60.04	73.98	13.94	PK
15540	39.67	5.36	V	45.03	53.98	8.95	AV
10360	58.95	4.10	H	63.05	68.20	5.15	PK
15540	54.26	5.36	H	59.62	73.98	14.36	PK
15540	39.14	5.36	H	44.50	53.98	9.48	AV

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	59.13	3.87	V	63.00	68.20	5.20	PK
15600	53.65	4.75	V	58.40	73.98	15.58	PK
15600	37.61	4.75	V	42.36	53.98	11.62	AV
10400	58.81	3.87	H	62.68	68.20	5.52	PK
15600	53.47	4.75	H	58.22	73.98	15.76	PK
15600	37.45	4.75	H	42.20	53.98	11.78	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	60.00	4.52	V	64.52	68.20	3.68	PK
15720	47.67	3.58	V	51.25	73.98	22.73	PK
15720	35.01	3.58	V	38.59	53.98	15.39	AV
10480	59.84	4.52	H	64.36	68.20	3.84	PK
15720	47.53	3.58	H	51.11	73.98	22.87	PK
15720	34.90	3.58	H	38.48	53.98	15.50	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 1
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	59.82	4.10	V	63.92	68.20	4.28	PK
15540	49.16	5.36	V	54.52	73.98	19.46	PK
15540	35.54	5.36	V	40.90	53.98	13.08	AV
10360	59.46	4.10	H	63.56	68.20	4.64	PK
15540	49.05	5.36	H	54.41	73.98	19.57	PK
15540	35.42	5.36	H	40.78	53.98	13.20	AV

Band : UNII 1
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	60.14	3.87	V	64.01	68.20	4.19	PK
15600	51.99	4.75	V	56.74	73.98	17.24	PK
15600	37.78	4.75	V	42.53	53.98	11.45	AV
10400	59.76	3.87	H	63.63	68.20	4.57	PK
15600	51.76	4.75	H	56.51	73.98	17.47	PK
15600	37.56	4.75	H	42.31	53.98	11.67	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 1
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	59.94	4.52	V	64.46	68.20	3.74	PK
15720	47.81	3.58	V	51.39	73.98	22.59	PK
15720	34.89	3.58	V	38.47	53.98	15.51	AV
10480	59.76	4.52	H	64.28	68.20	3.92	PK
15720	47.56	3.58	H	51.14	73.98	22.84	PK
15720	34.76	3.58	H	38.34	53.98	15.64	AV

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	55.96	4.09	V	60.05	68.20	8.15	PK
15570	48.95	4.73	V	53.68	73.98	20.30	PK
15570	35.10	4.73	V	39.83	53.98	14.15	AV
10380	55.33	4.09	H	59.42	68.20	8.78	PK
15570	48.79	4.73	H	53.52	73.98	20.46	PK
15570	34.96	4.73	H	39.69	53.98	14.29	AV

Band : UNII 1
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	59.96	4.54	V	64.50	68.20	3.70	PK
15690	49.05	3.69	V	52.74	73.98	21.24	PK
15690	35.42	3.69	V	39.11	53.98	14.87	AV
10460	58.99	4.54	H	63.53	68.20	4.67	PK
15690	48.88	3.69	H	52.57	73.98	21.41	PK
15690	35.34	3.69	H	39.03	53.98	14.95	AV

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	55.86	4.09	V	59.95	68.20	8.25	PK
15570	47.99	4.73	V	52.72	73.98	21.26	PK
15570	35.13	4.73	V	39.86	53.98	14.12	AV
10380	54.98	4.09	H	59.07	68.20	9.13	PK
15570	48.32	4.73	H	53.05	73.98	20.93	PK
15570	35.10	4.73	H	39.83	53.98	14.15	AV

Band : UNII 1
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	59.31	4.54	V	63.85	68.20	4.35	PK
15690	47.40	3.69	V	51.09	73.98	22.89	PK
15690	35.22	3.69	V	38.91	53.98	15.07	AV
10460	58.76	4.54	H	63.30	68.20	4.90	PK
15690	47.27	3.69	H	50.96	73.98	23.02	PK
15690	35.07	3.69	H	38.76	53.98	15.22	AV

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	56.39	3.79	V	60.18	68.20	8.02	PK
15630	48.05	4.02	V	52.07	73.98	21.91	PK
15630	36.81	4.02	V	40.83	53.98	13.15	AV
10420	56.12	3.79	H	59.91	68.20	8.29	PK
15630	48.01	4.02	H	52.03	73.98	21.95	PK
15630	36.78	4.02	H	40.80	53.98	13.18	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 2A
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5260 MHz
 Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	59.65	4.70	V	64.35	68.20	3.85	PK
15780	46.84	3.76	V	50.60	73.98	23.38	PK
15780	33.87	3.76	V	37.63	53.98	16.35	AV
10520	59.44	4.70	H	64.14	68.20	4.06	PK
15780	46.76	3.76	H	50.52	73.98	23.46	PK
15780	33.79	3.76	H	37.55	53.98	16.43	AV

Band : UNII 2A
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	61.19	4.27	V	65.46	73.98	8.52	PK
10600	45.76	4.27	V	50.03	53.98	3.95	AV
15900	47.00	4.58	V	51.58	73.98	22.40	PK
15900	33.67	4.58	V	38.25	53.98	15.73	AV
10600	61.05	4.27	H	65.32	73.98	8.66	PK
10600	45.39	4.27	H	49.66	53.98	4.32	AV
15900	46.88	4.58	H	51.46	73.98	22.52	PK
15900	33.29	4.58	H	37.87	53.98	16.11	AV

Report No.: HCT-RF-1904-FI004

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	59.70	4.40	V	64.10	73.98	9.88	PK
10640	45.87	4.40	V	50.27	53.98	3.71	AV
15960	47.64	4.03	V	51.67	73.98	22.31	PK
15960	34.50	4.03	V	38.53	53.98	15.45	AV
10640	58.69	4.40	H	63.09	73.98	10.89	PK
10640	45.73	4.40	H	50.13	53.98	3.85	AV
15960	47.54	4.03	H	51.57	73.98	22.41	PK
15960	34.39	4.03	H	38.42	53.98	15.56	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5260 MHz
 Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	58.33	4.70	V	63.03	68.20	5.17	PK
15780	45.96	3.76	V	49.72	73.98	24.26	PK
15780	33.22	3.76	V	36.98	53.98	17.00	AV
10520	57.68	4.70	H	62.38	68.20	5.82	PK
15780	46.50	3.76	H	50.26	73.98	23.72	PK
15780	33.58	3.76	H	37.34	53.98	16.64	AV

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	58.76	4.27	V	63.03	73.98	10.95	PK
10600	45.89	4.27	V	50.16	53.98	3.82	AV
15900	46.84	4.58	V	51.42	73.98	22.56	PK
15900	33.58	4.58	V	38.16	53.98	15.82	AV
10600	57.64	4.27	H	61.91	73.98	12.07	PK
10600	45.22	4.27	H	49.49	53.98	4.49	AV
15900	46.26	4.58	H	50.84	73.98	23.14	PK
15900	33.26	4.58	H	37.84	53.98	16.14	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	59.57	4.40	V	63.97	73.98	10.01	PK
10640	45.24	4.40	V	49.64	53.98	4.34	AV
15960	47.39	4.03	V	51.42	73.98	22.56	PK
15960	34.16	4.03	V	38.19	53.98	15.79	AV
10640	59.10	4.40	H	63.50	73.98	10.48	PK
10640	44.95	4.40	H	49.35	53.98	4.63	AV
15960	47.24	4.03	H	51.27	73.98	22.71	PK
15960	34.05	4.03	H	38.08	53.98	15.90	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5260MHz
 Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	58.22	4.70	V	62.92	68.20	5.28	PK
15780	45.88	3.76	V	49.64	73.98	24.34	PK
15780	33.15	3.76	V	36.91	53.98	17.07	AV
10520	57.91	4.70	H	62.61	68.20	5.59	PK
15780	45.00	3.76	H	48.76	73.98	25.22	PK
15780	33.03	3.76	H	36.79	53.98	17.19	AV

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	54.26	4.27	V	58.53	73.98	15.45	PK
10600	41.81	4.27	V	46.08	53.98	7.90	AV
15900	46.13	4.58	V	50.71	73.98	23.27	PK
15900	33.33	4.58	V	37.91	53.98	16.07	AV
10600	54.11	4.27	H	58.38	73.98	15.60	PK
10600	40.99	4.27	H	45.26	53.98	8.72	AV
15900	45.91	4.58	H	50.49	73.98	23.49	PK
15900	33.11	4.58	H	37.69	53.98	16.29	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	54.73	4.40	V	59.13	73.98	14.85	PK
10640	39.83	4.40	V	44.23	53.98	9.75	AV
15960	46.86	4.03	V	50.89	73.98	23.09	PK
15960	33.95	4.03	V	37.98	53.98	16.00	AV
10640	54.41	4.40	H	58.81	73.98	15.17	PK
10640	39.38	4.40	H	43.78	53.98	10.20	AV
15960	46.18	4.03	H	50.21	73.98	23.77	PK
15960	33.76	4.03	H	37.79	53.98	16.19	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 2A
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5270 MHz
 Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	59.02	5.03	V	64.05	68.20	4.15	PK
15810	46.73	4.69	V	51.42	73.98	22.56	PK
15810	33.95	4.69	V	38.64	53.98	15.34	AV
10540	58.92	5.03	H	63.95	68.20	4.25	PK
15810	46.39	4.69	H	51.08	73.98	22.90	PK
15810	33.78	4.69	H	38.47	53.98	15.51	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	58.52	4.92	V	63.44	73.98	10.54	PK
10620	45.11	4.92	V	50.03	53.98	3.95	AV
15930	46.22	4.50	V	50.72	73.98	23.26	PK
15930	34.10	4.50	V	38.60	53.98	15.38	AV
10620	57.99	4.92	H	62.91	73.98	11.07	PK
10620	45.05	4.92	H	49.97	53.98	4.01	AV
15930	45.78	4.50	H	50.28	73.98	23.70	PK
15930	33.94	4.50	H	38.44	53.98	15.54	AV

Report No.: HCT-RF-1904-FI004

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 Operating Frequency 5270 MHz
 Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	56.34	5.03	V	61.37	68.20	6.83	PK
15810	47.06	4.69	V	51.75	73.98	22.23	PK
15810	34.50	4.69	V	39.19	53.98	14.79	AV
10540	56.10	5.03	H	61.13	68.20	7.07	PK
15810	47.04	4.69	H	51.73	73.98	22.25	PK
15810	34.22	4.69	H	38.91	53.98	15.07	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	57.39	4.92	V	62.31	73.98	11.67	PK
10620	42.75	4.92	V	47.67	53.98	6.31	AV
15930	47.15	4.50	V	51.65	73.98	22.33	PK
15930	34.05	4.50	V	38.55	53.98	15.43	AV
10620	57.21	4.92	H	62.13	73.98	11.85	PK
10620	42.45	4.92	H	47.37	53.98	6.61	AV
15930	47.23	4.50	H	51.73	73.98	22.25	PK
15930	34.20	4.50	H	38.70	53.98	15.28	AV

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	52.03	4.02	V	56.05	68.20	12.15	PK
15870	46.97	5.51	V	52.48	73.98	21.50	PK
15870	35.83	5.51	V	41.34	53.98	12.64	AV
10580	51.98	4.02	H	56.00	68.20	12.20	PK
15870	46.84	5.51	H	52.35	73.98	21.63	PK
15870	35.79	5.51	H	41.30	53.98	12.68	AV

Report No.: HCT-RF-1904-FI004

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	60.58	4.29	V	64.87	73.98	9.11	PK
11000	45.79	4.29	V	50.08	53.98	3.90	AV
16500	46.88	6.22	V	53.10	68.20	15.10	PK
11000	60.23	4.29	H	64.52	73.98	9.46	PK
11000	45.68	4.29	H	49.97	53.98	4.01	AV
16500	45.97	6.22	H	52.19	68.20	16.01	PK

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5600 MHz
 Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	60.88	4.28	V	65.16	73.98	8.82	PK
11160	45.99	4.28	V	50.27	53.98	3.71	AV
16740	47.32	7.73	V	55.05	68.20	13.15	PK
11160	60.14	4.28	H	64.42	73.98	9.56	PK
11160	45.69	4.28	H	49.97	53.98	4.01	AV
16740	46.95	7.73	H	54.68	68.20	13.52	PK

Report No.: HCT-RF-1904-FI004

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	59.33	4.38	V	63.71	73.98	10.27	PK
11440	44.39	4.38	V	48.77	53.98	5.21	AV
17160	46.55	8.77	V	55.32	68.20	12.88	PK
11440	58.86	4.38	H	63.24	73.98	10.74	PK
11440	44.21	4.38	H	48.59	53.98	5.39	AV
17160	45.98	8.77	H	54.75	68.20	13.45	PK

Report No.: HCT-RF-1904-FI004

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	59.02	4.29	V	63.31	73.98	10.67	PK
11000	45.14	4.29	V	49.43	53.98	4.55	AV
16500	46.12	6.22	V	52.34	68.20	15.86	PK
11000	58.77	4.29	H	63.06	73.98	10.92	PK
11000	45.05	4.29	H	49.34	53.98	4.64	AV
16500	45.89	6.22	H	52.11	68.20	16.09	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5600 MHz
 Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	59.03	4.28	V	63.31	73.98	10.67	PK
11160	44.69	4.28	V	48.97	53.98	5.01	AV
16740	47.60	7.73	V	55.33	68.20	12.87	PK
11160	58.13	4.28	H	62.41	73.98	11.57	PK
11160	44.25	4.28	H	48.53	53.98	5.45	AV
16740	47.22	7.73	H	54.95	68.20	13.25	PK

Report No.: HCT-RF-1904-FI004

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	56.41	4.38	V	60.79	73.98	13.19	PK
11440	43.03	4.38	V	47.41	53.98	6.57	AV
17160	46.29	8.77	V	55.06	68.20	13.14	PK
11440	58.68	4.38	H	63.06	73.98	10.92	PK
11440	44.10	4.38	H	48.48	53.98	5.50	AV
17160	46.15	8.77	H	54.92	68.20	13.28	PK

Report No.: HCT-RF-1904-FI004

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	58.79	4.29	V	63.08	73.98	10.90	PK
11000	44.55	4.29	V	48.84	53.98	5.14	AV
16500	46.05	6.22	V	52.27	68.20	15.93	PK
11000	58.23	4.29	H	62.52	73.98	11.46	PK
11000	44.37	4.29	H	48.66	53.98	5.32	AV
16500	45.77	6.22	H	51.99	68.20	16.21	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5600 MHz
 Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	59.41	4.28	V	63.69	73.98	10.29	PK
11160	45.99	4.28	V	50.27	53.98	3.71	AV
16740	46.99	7.73	V	54.72	68.20	13.48	PK
11160	59.16	4.28	H	63.44	73.98	10.54	PK
11160	45.78	4.28	H	50.06	53.98	3.92	AV
16740	46.85	7.73	H	54.58	68.20	13.62	PK

Report No.: HCT-RF-1904-FI004

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	58.89	4.38	V	63.27	73.98	10.71	PK
11440	44.36	4.38	V	48.74	53.98	5.24	AV
17160	46.12	8.77	V	54.89	68.20	13.31	PK
11440	58.31	4.38	H	62.69	73.98	11.29	PK
11440	43.98	4.38	H	48.36	53.98	5.62	AV
17160	46.05	8.77	H	54.82	68.20	13.38	PK

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	55.12	4.58	V	59.70	73.98	14.28	PK
11020	42.20	4.58	V	46.78	53.98	7.20	AV
16530	45.98	6.22	V	52.20	68.20	16.00	PK
11020	54.95	4.58	H	59.53	73.98	14.45	PK
11020	42.15	4.58	H	46.73	53.98	7.25	AV
16530	45.72	6.22	H	51.94	68.20	16.26	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5550 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	59.38	5.04	V	64.42	73.98	9.56	PK
11100	45.28	5.04	V	50.32	53.98	3.66	AV
16650	47.12	7.21	V	54.33	68.20	13.87	PK
11100	59.31	5.04	H	64.35	73.98	9.63	PK
11100	45.17	5.04	H	50.21	53.98	3.77	AV
16650	46.95	7.21	H	54.16	68.20	14.04	PK

Report No.: HCT-RF-1904-FI004

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: 0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	54.27	4.11	V	58.38	73.98	15.60	PK
11420	41.36	4.11	V	45.47	53.98	8.51	AV
17130	46.05	7.70	V	53.75	68.20	14.45	PK
11420	53.96	4.11	H	58.07	73.98	15.91	PK
11420	41.28	4.11	H	45.39	53.98	8.59	AV
17130	45.87	7.70	H	53.57	68.20	14.63	PK

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	54.83	4.58	V	59.41	73.98	14.57	PK
11020	41.98	4.58	V	46.56	53.98	7.42	AV
16530	47.34	6.22	V	53.56	68.20	14.64	PK
11020	54.22	4.58	H	58.80	73.98	15.18	PK
11020	41.39	4.58	H	45.97	53.98	8.01	AV
16530	47.16	6.22	H	53.38	68.20	14.82	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 Operating Frequency 5550 MHz
 Channel No. 110 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	57.86	5.04	V	62.90	73.98	11.08	PK
11100	45.15	5.04	V	50.19	53.98	3.79	AV
16650	47.04	7.21	V	54.25	68.20	13.95	PK
11100	57.68	5.04	H	62.72	73.98	11.26	PK
11100	45.05	5.04	H	50.09	53.98	3.89	AV
16650	46.88	7.21	H	54.09	68.20	14.11	PK

Report No.: HCT-RF-1904-FI004

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: 0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	56.23	4.11	V	60.34	73.98	13.64	PK
11420	43.31	4.11	V	47.42	53.98	6.56	AV
17130	46.28	7.70	V	53.98	68.20	14.22	PK
11420	56.11	4.11	H	60.22	73.98	13.76	PK
11420	43.23	4.11	H	47.34	53.98	6.64	AV
17130	45.94	7.70	H	53.64	68.20	14.56	PK

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	49.76	4.97	V	54.73	73.98	19.25	PK
11060	37.74	4.97	V	42.71	53.98	11.27	AV
16590	48.66	6.79	V	55.45	68.20	12.75	PK
11060	49.68	4.97	H	54.65	73.98	19.33	PK
11060	37.58	4.97	H	42.55	53.98	11.43	AV
16590	48.54	6.79	H	55.33	68.20	12.87	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: 0
 Operating Frequency 5690 MHz
 Channel No. 138 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	51.64	4.20	V	55.84	73.98	18.14	PK
11380	39.77	4.20	V	43.97	53.98	10.01	AV
17070	46.43	8.73	V	55.16	68.20	13.04	PK
11380	51.44	4.20	H	55.64	73.98	18.34	PK
11380	39.46	4.20	H	43.66	53.98	10.32	AV
17070	46.28	8.73	H	55.01	68.20	13.19	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	58.39	4.19	V	62.58	73.98	11.40	PK
11490	44.01	4.19	V	48.20	53.98	5.78	AV
17235	45.91	9.09	V	55.00	68.20	13.20	PK
11490	58.21	4.19	H	62.40	73.98	11.58	PK
11490	43.79	4.19	H	47.98	53.98	6.00	AV
17235	45.79	9.09	H	54.88	68.20	13.32	PK

Band : UNII 3
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5785 MHz
 Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	56.46	4.83	V	61.29	73.98	12.69	PK
11570	41.73	4.83	V	46.56	53.98	7.42	AV
17355	45.89	9.81	V	55.70	68.20	12.50	PK
11570	56.12	4.83	H	60.95	73.98	13.03	PK
11570	41.23	4.83	H	46.06	53.98	7.92	AV
17355	45.76	9.81	H	55.57	68.20	12.63	PK

Report No.: HCT-RF-1904-FI004

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	53.14	3.70	V	56.84	73.98	17.14	PK
11650	39.26	3.70	V	42.96	53.98	11.02	AV
17475	44.58	10.25	V	54.83	68.20	13.37	PK
11650	53.05	3.70	H	56.75	73.98	17.23	PK
11650	38.72	3.70	H	42.42	53.98	11.56	AV
17475	44.36	10.25	H	54.61	68.20	13.59	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5745MHz
 Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	55.68	4.19	V	59.87	73.98	14.11	PK
11490	42.92	4.19	V	47.11	53.98	6.87	AV
17235	45.76	9.09	V	54.85	68.20	13.35	PK
11490	54.96	4.19	H	59.15	73.98	14.83	PK
11490	41.85	4.19	H	46.04	53.98	7.94	AV
17235	45.59	9.09	H	54.68	68.20	13.52	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5785 MHz
 Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	54.48	4.83	V	59.31	73.98	14.67	PK
11570	40.33	4.83	V	45.16	53.98	8.82	AV
17355	45.67	9.81	V	55.48	68.20	12.72	PK
11570	54.39	4.83	H	59.22	73.98	14.76	PK
11570	40.26	4.83	H	45.09	53.98	8.89	AV
17355	45.58	9.81	H	55.39	68.20	12.81	PK

Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5825 MHz
 Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	51.70	3.70	V	55.40	73.98	18.58	PK
11650	38.08	3.70	V	41.78	53.98	12.20	AV
17475	44.39	10.25	V	54.64	68.20	13.56	PK
11650	51.58	3.70	H	55.28	73.98	18.70	PK
11650	37.96	3.70	H	41.66	53.98	12.32	AV
17475	44.28	10.25	H	54.53	68.20	13.67	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5745MHz
 Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	58.06	4.19	V	62.25	73.98	11.73	PK
11490	43.98	4.19	V	48.17	53.98	5.81	AV
17235	45.65	9.09	V	54.74	68.20	13.46	PK
11490	57.69	4.19	H	61.88	73.98	12.10	PK
11490	43.12	4.19	H	47.31	53.98	6.67	AV
17235	45.45	9.09	H	54.54	68.20	13.66	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5785 MHz
 Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	55.29	4.83	V	60.12	73.98	13.86	PK
11570	41.58	4.83	V	46.41	53.98	7.57	AV
17355	45.71	9.81	V	55.52	68.20	12.68	PK
11570	54.72	4.83	H	59.55	73.98	14.43	PK
11570	41.23	4.83	H	46.06	53.98	7.92	AV
17355	45.62	9.81	H	55.43	68.20	12.77	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5825 MHz
 Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	53.23	3.70	V	56.93	73.98	17.05	PK
11650	39.40	3.70	V	43.10	53.98	10.88	AV
17475	44.29	10.25	V	54.54	68.20	13.66	PK
11650	52.96	3.70	H	56.66	73.98	17.32	PK
11650	39.05	3.70	H	42.75	53.98	11.23	AV
17475	45.10	10.25	H	55.35	68.20	12.85	PK

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	53.18	4.20	V	57.38	73.98	16.60	PK
11510	40.42	4.20	V	44.62	53.98	9.36	AV
17265	45.99	9.64	V	55.63	68.20	12.57	PK
11510	52.94	4.20	H	57.14	73.98	16.84	PK
11510	40.05	4.20	H	44.25	53.98	9.73	AV
17265	45.38	9.64	H	55.02	68.20	13.18	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	50.28	4.91	V	55.19	73.98	18.79	PK
11590	37.88	4.91	V	42.79	53.98	11.19	AV
17385	45.13	10.20	V	55.33	68.20	12.87	PK
11590	50.77	4.91	H	55.68	73.98	18.30	PK
11590	37.69	4.91	H	42.60	53.98	11.38	AV
17385	45.10	10.20	H	55.30	68.20	12.90	PK

Report No.: HCT-RF-1904-FI004

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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	54.35	4.20	V	58.55	73.98	15.43	PK
11510	41.11	4.20	V	45.31	53.98	8.67	AV
17265	47.19	9.64	V	56.83	68.20	11.37	PK
11510	48.50	4.20	H	52.70	73.98	21.28	PK
11510	35.67	4.20	H	39.87	53.98	14.11	AV
17265	46.97	9.64	H	56.61	68.20	11.59	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	50.50	4.91	V	55.41	73.98	18.57	PK
11590	37.56	4.91	V	42.47	53.98	11.51	AV
17385	47.40	10.20	V	57.60	68.20	10.60	PK
11590	49.90	4.91	H	54.81	73.98	19.17	PK
11590	37.40	4.91	H	42.31	53.98	11.67	AV
17385	47.31	10.20	H	57.51	68.20	10.69	PK

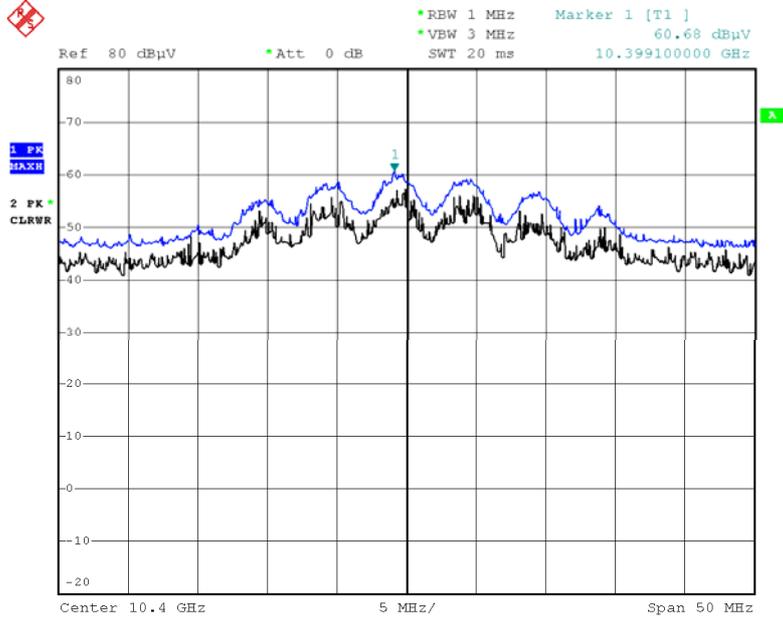
Report No.: HCT-RF-1904-FI004

Band : UNII 3
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: 0
 Operating Frequency 5775 MHz
 Channel No. 155 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	47.85	4.50	V	52.35	73.98	21.63	PK
11550	36.57	4.50	V	41.07	53.98	12.91	AV
17325	46.89	10.22	V	57.11	68.20	11.09	PK
11550	47.62	3.32	H	50.94	73.98	23.04	PK
11550	36.48	3.32	H	39.80	53.98	14.18	AV
17325	46.77	10.22	H	56.99	68.20	11.21	PK

■ Test Plots

Peak Reading (802.11a, Ch.40 2nd Harmonic, X-V)



Date: 30.MAR.2019 07:09:05

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

10.8 RADIATED RESTRICTED BAND EDGE

[Only MIMO]

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	51.23	11.06	H	62.29	73.98	11.69	PK
5150	31.69	11.06	H	42.75	53.98	11.23	AV
5150	51.06	11.06	V	62.12	73.98	11.86	PK
5150	31.54	11.06	V	42.6	53.98	11.38	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.97	11.06	H	66.03	73.98	7.95	PK
5150	31.82	11.06	H	42.88	53.98	11.10	AV
5150	54.39	11.06	V	65.45	73.98	8.53	PK
5150	31.54	11.06	V	42.6	53.98	11.38	AV

Report No.: HCT-RF-1904-FI004

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	48.85	11.06	H	59.91	73.98	14.07	PK
5150	31.38	11.06	H	42.44	53.98	11.54	AV
5150	48.71	11.06	V	59.77	73.98	14.21	PK
5150	31.22	11.06	V	42.28	53.98	11.70	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	54.23	11.06	H	65.29	73.98	8.69	PK
5150	38.85	11.06	H	49.91	53.98	4.07	AV
5150	53.86	11.06	V	64.92	73.98	9.06	PK
5150	38.14	11.06	V	49.2	53.98	4.78	AV

Report No.: HCT-RF-1904-FI004

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	53.30	11.06	H	64.36	73.98	9.62	PK
5150	38.04	11.06	H	49.1	53.98	4.88	AV
5150	52.96	11.06	V	64.02	73.98	9.96	PK
5150	37.89	11.06	V	48.95	53.98	5.03	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	50.87	11.06	H	61.93	73.98	12.05	PK
5150	37.47	11.06	H	48.53	53.98	5.45	AV
5150	50.44	11.06	V	61.5	73.98	12.48	PK
5150	37.18	11.06	V	48.24	53.98	5.74	AV

Report No.: HCT-RF-1904-FI004

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	42.62	11.86	H	54.48	73.98	19.50	PK
5350	29.04	11.86	H	40.9	53.98	13.08	AV
5350	42.54	11.86	V	54.4	73.98	19.58	PK
5350	28.88	11.86	V	40.74	53.98	13.24	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	41.96	11.86	H	53.82	73.98	20.16	PK
5350	29.96	11.86	H	41.82	53.98	12.16	AV
5350	41.58	11.86	V	53.44	73.98	20.54	PK
5350	29.75	11.86	V	41.61	53.98	12.37	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	47.93	11.86	H	59.79	73.98	14.19	PK
5350	29.99	11.86	H	41.85	53.98	12.13	AV
5350	47.58	11.86	V	59.44	73.98	14.54	PK
5350	29.73	11.86	V	41.59	53.98	12.39	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	52.52	11.86	H	64.38	73.98	9.60	PK
5350	37.42	11.86	H	49.28	53.98	4.70	AV
5350	51.98	11.86	V	63.84	73.98	10.14	PK
5350	37.21	11.86	V	49.07	53.98	4.91	AV

Report No.: HCT-RF-1904-FI004

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	56.62	11.86	H	68.48	73.98	5.50	PK
5350	37.73	11.86	H	49.59	53.98	4.39	AV
5350	56.18	11.86	V	68.04	73.98	5.94	PK
5350	37.69	11.86	V	49.55	53.98	4.43	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	50.81	11.86	H	62.67	73.98	11.31	PK
5350	37.60	11.86	H	49.46	53.98	4.52	AV
5350	50.72	11.86	V	62.58	73.98	11.40	PK
5350	37.43	11.86	V	49.29	53.98	4.69	AV

Report No.: HCT-RF-1904-FI004

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.51	12.24	H	54.75	73.98	19.23	PK
5460	29.10	12.24	H	41.34	53.98	12.64	AV
5470	44.34	12.50	H	56.84	68.20	11.36	PK
5460	42.44	12.24	V	54.68	73.98	19.30	PK
5460	28.93	12.24	V	41.17	53.98	12.81	AV
5470	44.17	12.50	V	56.67	68.20	11.53	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.53	12.24	H	54.77	73.98	19.21	PK
5460	29.40	12.24	H	41.64	53.98	12.34	AV
5470	51.44	12.50	H	63.94	68.20	4.26	PK
5460	42.19	12.24	V	54.43	73.98	19.55	PK
5460	29.31	12.24	V	41.55	53.98	12.43	AV
5470	50.89	12.50	V	63.39	68.20	4.81	PK

Report No.: HCT-RF-1904-FI004

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.49	12.24	H	54.73	73.98	19.25	PK
5460	29.09	12.24	H	41.33	53.98	12.65	AV
5470	51.33	12.50	H	63.83	68.20	4.37	PK
5460	42.38	12.24	V	54.62	73.98	19.36	PK
5460	28.76	12.24	V	41	53.98	12.98	AV
5470	51.21	12.50	V	63.71	68.20	4.49	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.62	12.24	H	54.86	73.98	19.12	PK
5460	29.74	12.24	H	41.98	53.98	12.00	AV
5470	51.32	12.50	H	63.82	68.20	4.38	PK
5460	42.18	12.24	V	54.42	73.98	19.56	PK
5460	29.55	12.24	V	41.79	53.98	12.19	AV
5470	41.18	12.50	V	53.68	68.20	14.52	PK

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT40
 Transfer MCS Index: 0
 Operating Frequency 5510 MHz
 Channel No. 102 Ch

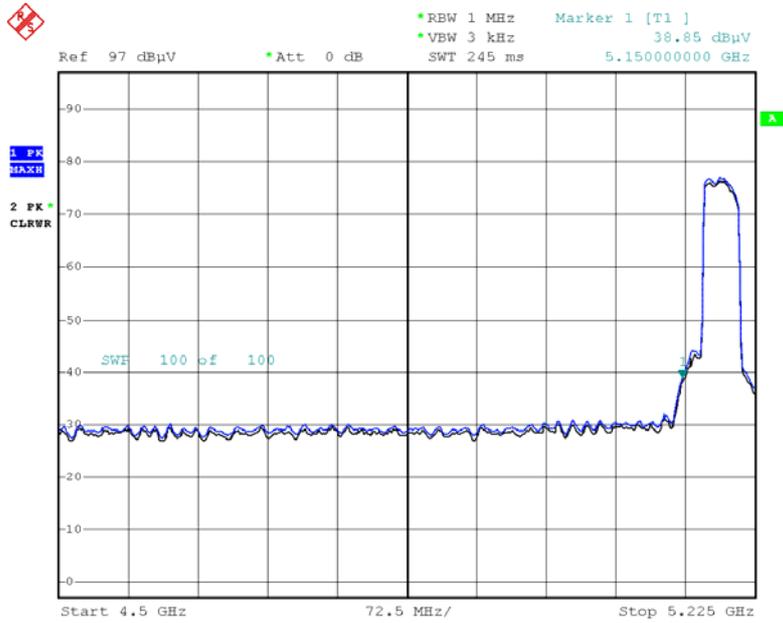
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5460	42.26	12.24	H	54.50	73.98	19.48	PK
5460	29.69	12.24	H	41.93	53.98	12.05	AV
5470	51.39	12.50	H	63.89	68.20	4.31	PK
5460	42.14	12.24	V	54.38	73.98	19.60	PK
5460	29.45	12.24	V	41.69	53.98	12.29	AV
5470	51.21	12.50	V	63.71	68.20	4.49	PK

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.63	12.24	H	54.87	73.98	19.11	PK
5460	31.60	12.24	H	43.84	53.98	10.14	AV
5470	51.29	12.50	H	63.79	68.20	4.41	PK
5460	42.38	12.24	V	54.62	73.98	19.36	PK
5460	31.31	12.24	V	43.55	53.98	10.43	AV
5470	51.06	12.50	V	63.56	68.20	4.64	PK

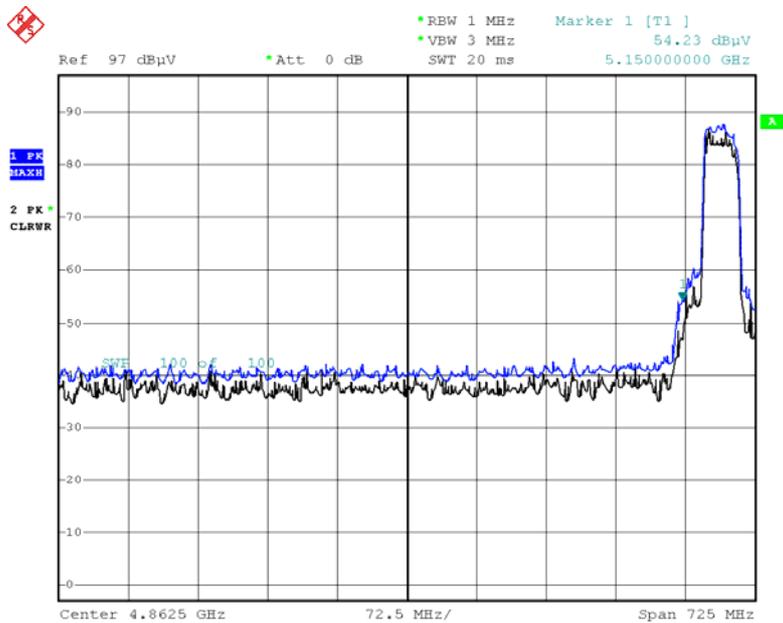
■ Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11n_HT40, Ch.38, Z-H)



Date: 30.MAR.2019 01:34:34

Peak Reading (802.11n_HT40, Ch.38, Z-H)

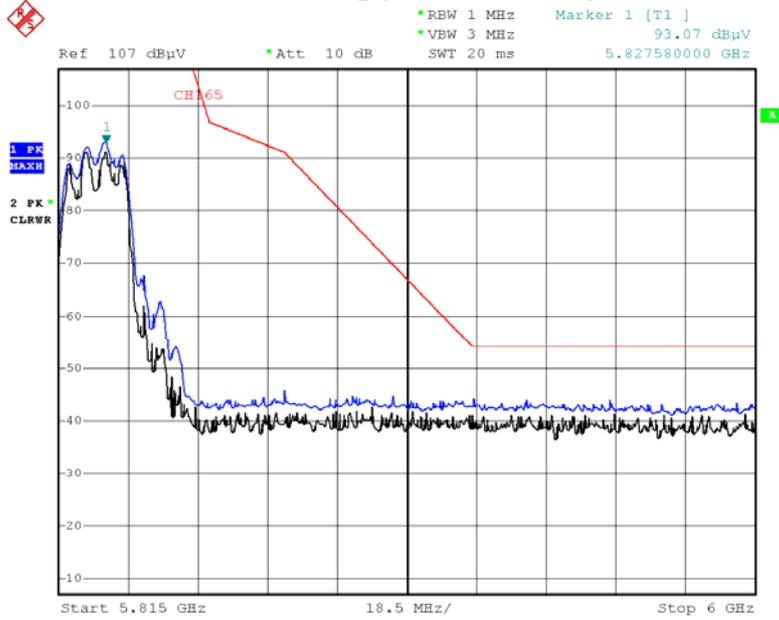


Date: 30.MAR.2019 01:35:13

Note : Only the worst case plots for Radiated Restricted Band Edge.

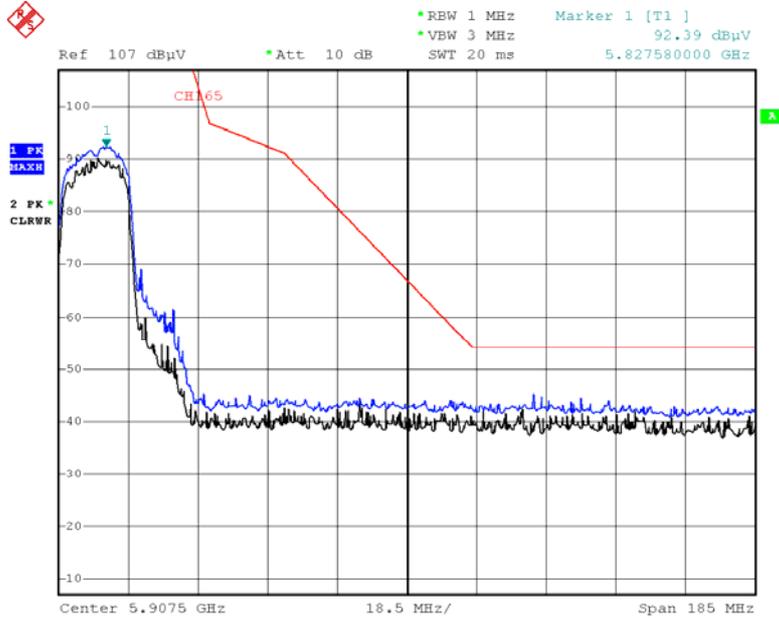
■ Test Plots(UNII 3)

Peak Reading (802.11a, Ch.165)



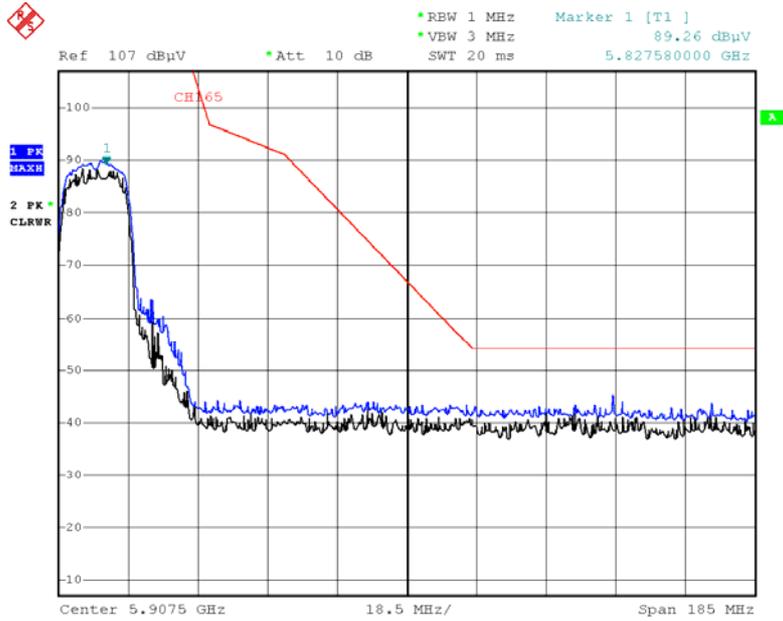
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Peak Reading (802.11n_HT20, Ch.165)



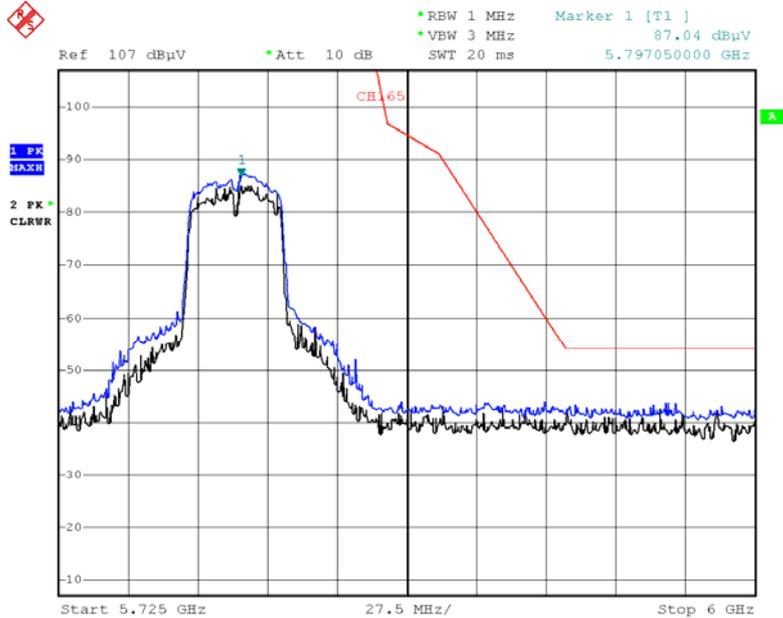
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Peak Reading (802.11ac_VHT20, Ch.165)



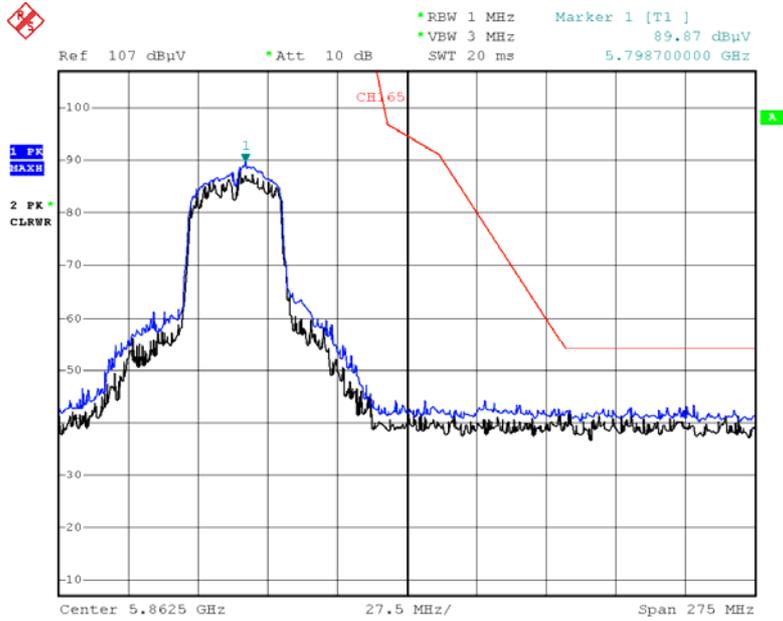
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Peak Reading (802.11n_HT40, Ch.159)



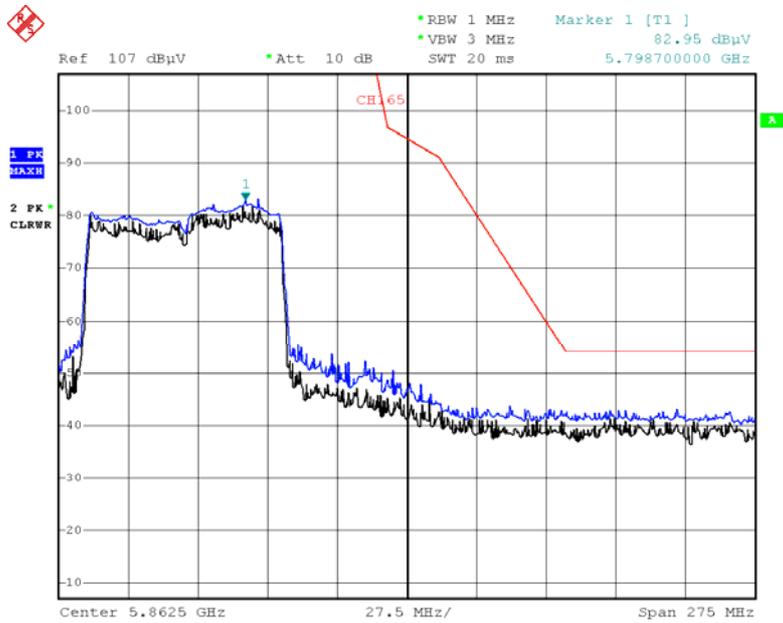
Date: 30.MAR.2019 02:42:01

Peak Reading (802.11ac_VHT40, Ch.159)



Date: 30.MAR.2019 02:42:48

Peak Reading (802.11ac_VHT80, Ch.155)



Date: 30.MAR.2019 02:43:37

10.9 RECEIVER SPURIOUS EMISSIONS

Frequency Range : Below 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

Note:

- Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

Frequency Range : Above 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBuV/m	dBm/m	dBm	(H/V)	dBuV/m	dBuV/m	dB
No Critical peaks found							

10.10 POWERLINE CONDUCTED EMISSIONS
Conducted Emissions (Line 1)

Test

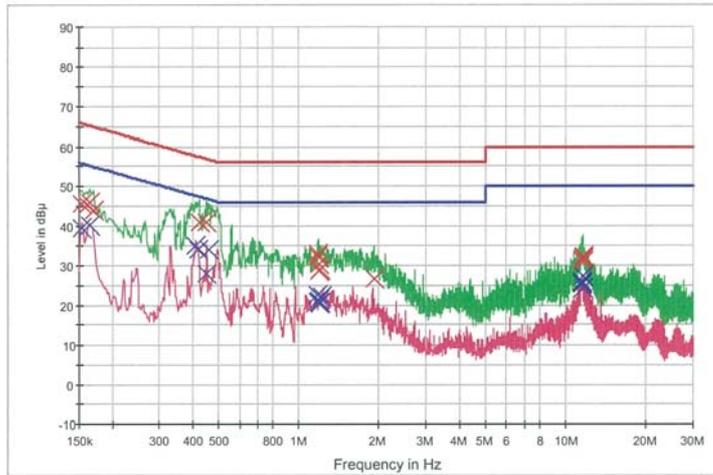
1 / 2

HCT TEST Report

Common Information

EUT: LGSBWAC93
 Manufacturer: LG Innotek
 Test Site: SHIELD ROOM
 Operating Conditions: WLAN5G_L1

FCC CLASS B_Exten Cable



— FCC CLASS B_OP — 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)
0.154000	45.6	9.000	Off	L1	9.7	20.1	65.8
0.160000	45.3	9.000	Off	L1	9.7	20.2	65.5
0.164000	46.0	9.000	Off	L1	9.7	19.3	65.3
0.170000	43.8	9.000	Off	L1	9.7	21.1	65.0
0.424000	41.0	9.000	Off	L1	9.7	16.4	57.4
0.452000	41.0	9.000	Off	L1	9.8	15.8	56.8
1.174000	33.1	9.000	Off	L1	9.8	22.9	56.0
1.178000	32.3	9.000	Off	L1	9.8	23.7	56.0
1.184000	30.3	9.000	Off	L1	9.8	25.7	56.0
1.190000	28.8	9.000	Off	L1	9.8	27.2	56.0
1.198000	28.9	9.000	Off	L1	9.8	27.1	56.0
1.910000	26.6	9.000	Off	L1	9.8	29.4	56.0
11.512000	31.4	9.000	Off	L1	10.3	28.6	60.0
11.534000	31.3	9.000	Off	L1	10.3	28.7	60.0
11.584000	32.0	9.000	Off	L1	10.3	28.0	60.0
11.596000	31.7	9.000	Off	L1	10.3	28.3	60.0
11.604000	30.9	9.000	Off	L1	10.3	29.1	60.0
11.614000	32.5	9.000	Off	L1	10.3	27.5	60.0

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Test

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	39.6	9.000	Off	L1	9.7	16.2	55.8
0.164000	40.1	9.000	Off	L1	9.7	15.1	55.3
0.412000	35.1	9.000	Off	L1	9.7	12.5	47.6
0.418000	34.0	9.000	Off	L1	9.7	13.5	47.5
0.452000	28.0	9.000	Off	L1	9.8	18.8	46.8
0.462000	34.0	9.000	Off	L1	9.8	12.7	46.7
1.174000	22.7	9.000	Off	L1	9.8	23.3	46.0
1.178000	20.8	9.000	Off	L1	9.8	25.2	46.0
1.184000	20.5	9.000	Off	L1	9.8	25.5	46.0
1.190000	21.0	9.000	Off	L1	9.8	25.0	46.0
1.198000	20.5	9.000	Off	L1	9.8	25.5	46.0
1.222000	22.3	9.000	Off	L1	9.8	23.7	46.0
11.512000	25.2	9.000	Off	L1	10.3	24.8	50.0
11.534000	25.7	9.000	Off	L1	10.3	24.3	50.0
11.548000	25.3	9.000	Off	L1	10.3	24.7	50.0
11.564000	25.8	9.000	Off	L1	10.3	24.2	50.0
11.616000	27.2	9.000	Off	L1	10.3	22.8	50.0
11.668000	24.2	9.000	Off	L1	10.3	25.8	50.0

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Conducted Emissions (Line 2)

Test

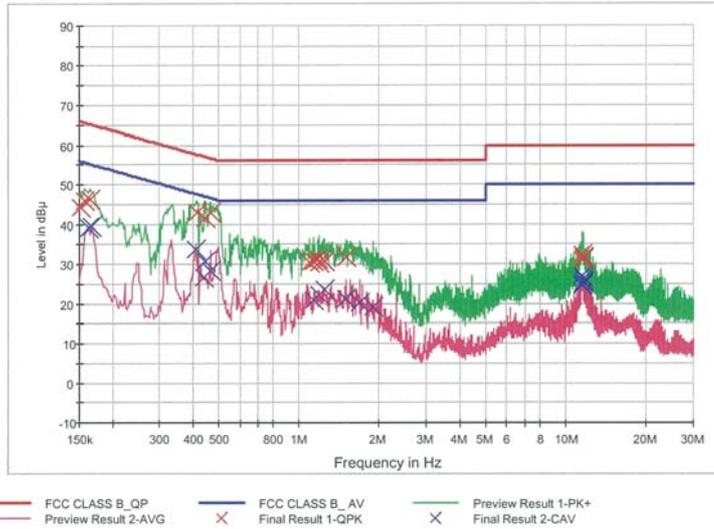
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HCT TEST Report

Common Information

EUT: LGSBWAC93
 Manufacturer: LG Innotek
 Test Site: SHIELD ROOM
 Operating Conditions: WLAN5G_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	44.2	9.000	Off	N	9.8	21.7	65.9
0.158000	46.1	9.000	Off	N	9.8	19.5	65.6
0.164000	46.3	9.000	Off	N	9.8	18.9	65.3
0.414000	42.8	9.000	Off	N	9.9	14.8	57.6
0.446000	41.7	9.000	Off	N	9.9	15.3	56.9
0.466000	42.9	9.000	Off	N	9.9	13.7	56.6
1.096000	30.3	9.000	Off	N	10.0	25.7	56.0
1.138000	30.6	9.000	Off	N	10.0	25.4	56.0
1.182000	31.5	9.000	Off	N	10.0	24.5	56.0
1.188000	30.4	9.000	Off	N	10.0	25.6	56.0
1.240000	30.5	9.000	Off	N	10.0	25.5	56.0
1.496000	31.5	9.000	Off	N	10.1	24.5	56.0
11.482000	32.5	9.000	Off	N	10.5	27.5	60.0
11.500000	30.9	9.000	Off	N	10.5	29.1	60.0
11.512000	31.1	9.000	Off	N	10.5	28.9	60.0
11.526000	30.9	9.000	Off	N	10.5	29.1	60.0
11.580000	31.9	9.000	Off	N	10.5	28.1	60.0
11.588000	31.4	9.000	Off	N	10.5	28.6	60.0

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Test

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.162000	39.1	9.000	Off	N	9.8	16.3	55.4
0.166000	39.4	9.000	Off	N	9.8	15.7	55.2
0.410000	33.7	9.000	Off	N	9.9	13.9	47.6
0.440000	26.6	9.000	Off	N	9.9	20.4	47.1
0.446000	30.6	9.000	Off	N	9.9	16.4	46.9
0.466000	28.3	9.000	Off	N	9.9	18.3	46.6
1.138000	20.8	9.000	Off	N	10.0	25.2	46.0
1.188000	22.3	9.000	Off	N	10.0	23.7	46.0
1.240000	23.5	9.000	Off	N	10.0	22.5	46.0
1.496000	21.2	9.000	Off	N	10.1	24.8	46.0
1.696000	20.3	9.000	Off	N	10.1	25.7	46.0
1.906000	19.2	9.000	Off	N	10.0	26.8	46.0
11.482000	26.8	9.000	Off	N	10.5	23.2	50.0
11.520000	24.8	9.000	Off	N	10.5	25.2	50.0
11.526000	24.7	9.000	Off	N	10.5	25.3	50.0
11.580000	25.6	9.000	Off	N	10.5	24.4	50.0
11.588000	25.2	9.000	Off	N	10.5	24.8	50.0
11.600000	26.3	9.000	Off	N	10.5	23.7	50.0

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11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/12/2018	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/27/2018	Annual	100033
ESPAC	SU-642 /Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/20/2018	Annual	MY49431210
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/07/2018	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/26/2018	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/10/2018	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/17/2018	Annual	100422

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9160 / Hybrid Antenna	08/09/2018	Biennial	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	11/21/2017	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/19/2018	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/19/2018	Annual	101068-SZ
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	01/03/2019	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	01/03/2019	Annual	5
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/07/2018	Annual	2
WEINSCHL	56-10 / Attenuator(10 dB)	10/10/2018	Annual	72316
CERNEX	CBLU1183540B-01/Broadband Bench Top LNA	01/03/2019	Annual	28549
CERNEX	CBL06185030 / Broadband Low Noise Amplifier	01/03/2019	Annual	24615
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1904-FI004-P