

■ Test Plots(UNII 3 Band 6dB Bandwidth)

802.11a CH.144



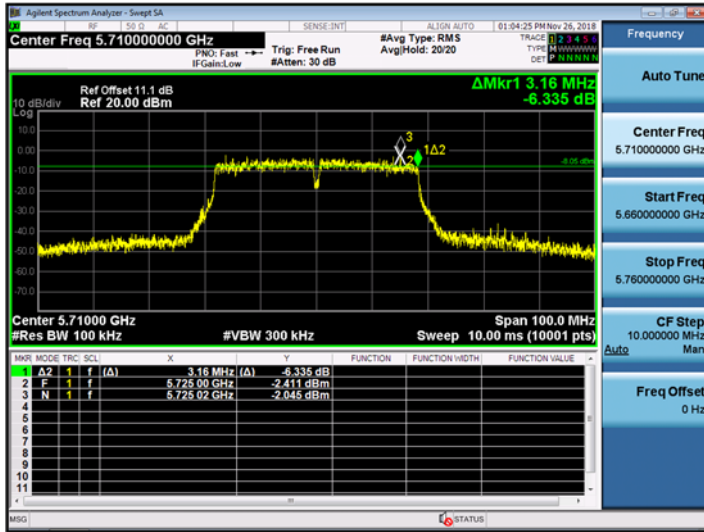
802.11n_HT20 CH.144



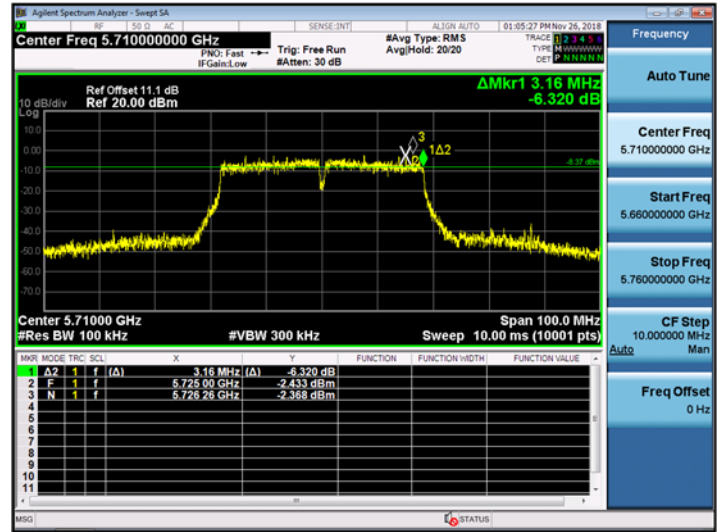
802.11ac_VHT20 CH.144



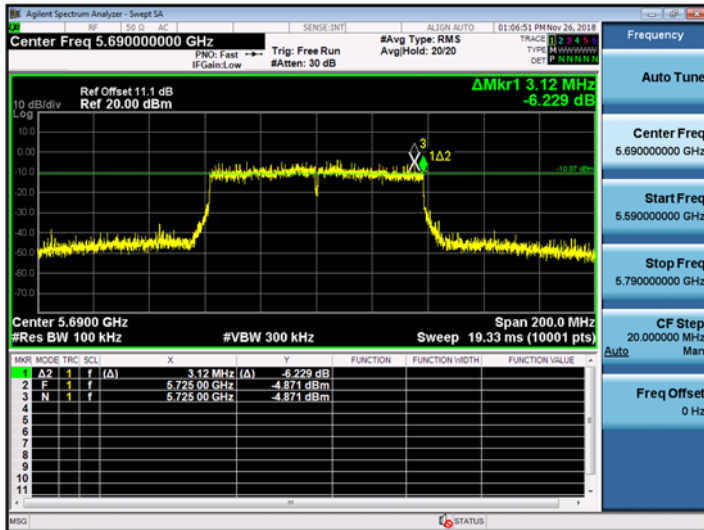
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

[Ant1]

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	14.81	0.773	15.59	22.66
802.11n(HT20)			12.49	1.675	14.16	22.98
802.11ac(VHT20)			13.34	1.649	14.99	22.93
802.11a	5720 (UNII 3 Band)	144	7.95	0.773	8.72	30.00
802.11n(HT20)			6.83	1.675	8.51	30.00
802.11ac(VHT20)			7.75	1.649	9.40	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	11.90	2.557	14.46	23.98
802.11ac(VHT40)			11.96	2.487	14.45	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	2.20	2.557	4.76	30.00
802.11ac(VHT40)			2.10	2.487	4.59	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	11.08	3.335	14.42	23.98
	5690 (UNII 3 Band)	138	-1.93	3.335	1.41	30.00

■ Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



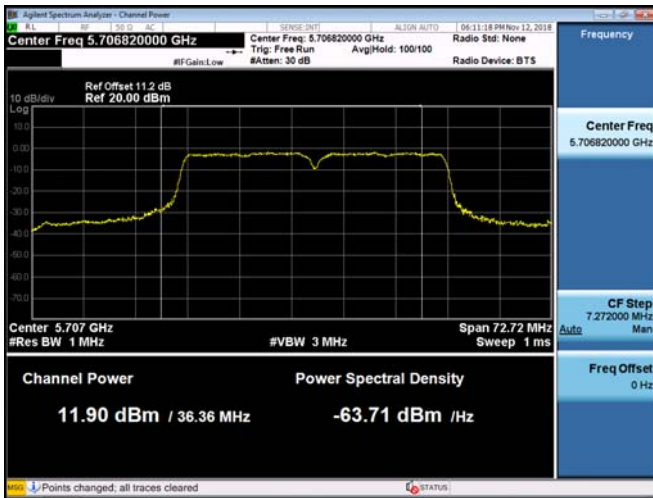
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



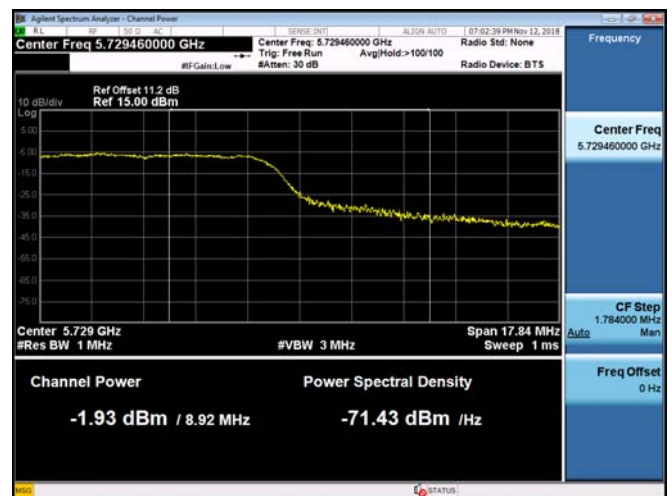
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[Ant2]

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	13.26	0.773	14.03	22.63
802.11n(HT20)			10.57	1.675	12.24	22.85
802.11ac(VHT20)			11.74	1.649	13.39	23.00
802.11a	5720 (UNII 3 Band)	144	6.42	0.773	7.19	30.00
802.11n(HT20)			4.98	1.675	6.65	30.00
802.11ac(VHT20)			6.11	1.649	7.76	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	10.48	2.557	13.03	23.98
802.11ac(VHT40)			10.48	2.487	12.97	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	0.39	2.557	2.95	30.00
802.11ac(VHT40)			0.41	2.487	2.90	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Measured Power(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	10.01	3.335	13.35	23.98
	5690 (UNII 3 Band)	138	-3.51	3.335	-0.17	30.00

■ Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



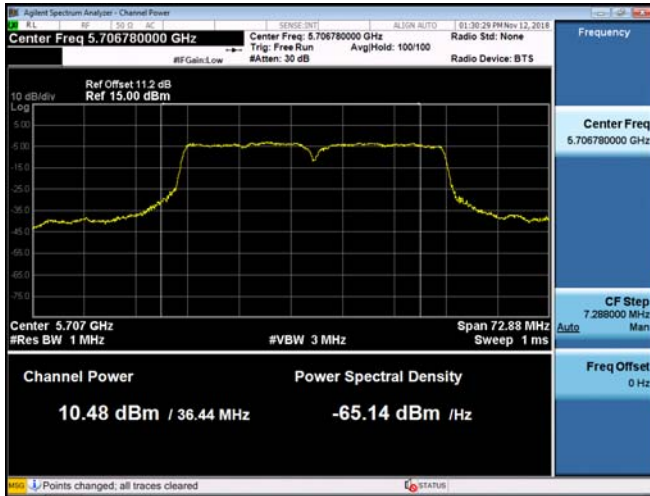
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802.11ac(VHT20) UNII 3 Band



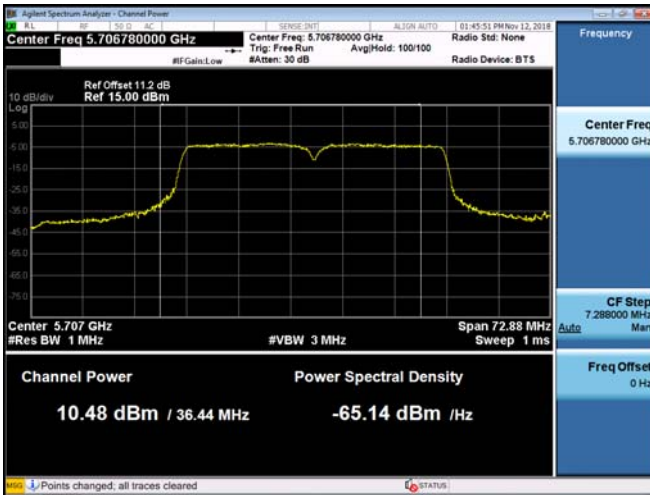
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



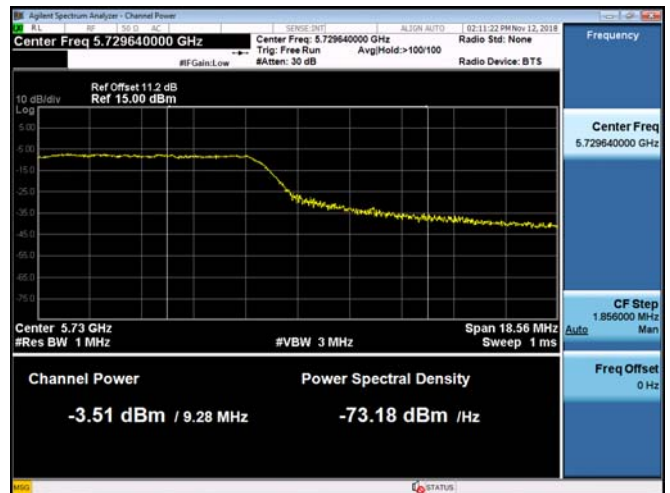
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

[Ant1]

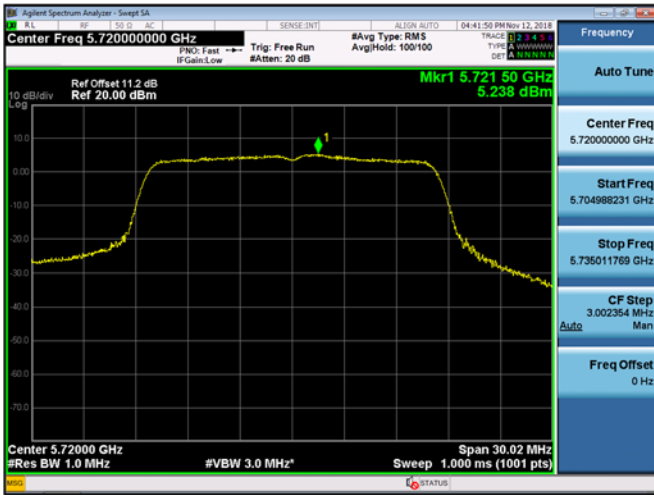
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	5.238	0.773	6.011	11.00
802.11n(HT20)			2.387	1.675	4.062	11.00
802.11ac(VHT20)			3.170	1.649	4.819	11.00
802.11a	5720 (UNII 3 Band)	144	0.980	0.773	1.753	30.00
802.11n(HT20)			-0.815	1.675	0.860	30.00
802.11ac(VHT20)			0.182	1.649	1.831	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	-1.404	2.557	1.153	11.00
802.11ac(VHT40)			-1.017	2.487	1.470	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-5.277	2.557	-2.720	30.00
802.11ac(VHT40)			-4.217	2.487	-1.730	30.00

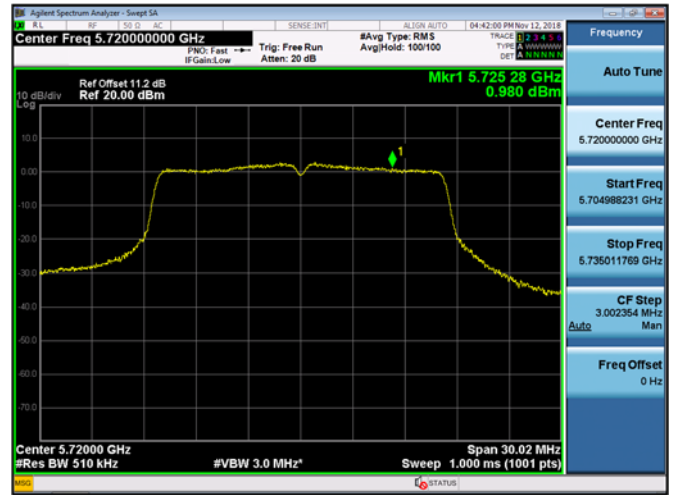
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-5.607	3.335	-2.272	11.00
	5690 (UNII 3 Band)	138	-8.873	3.335	-5.538	30.00

■ Test Plots

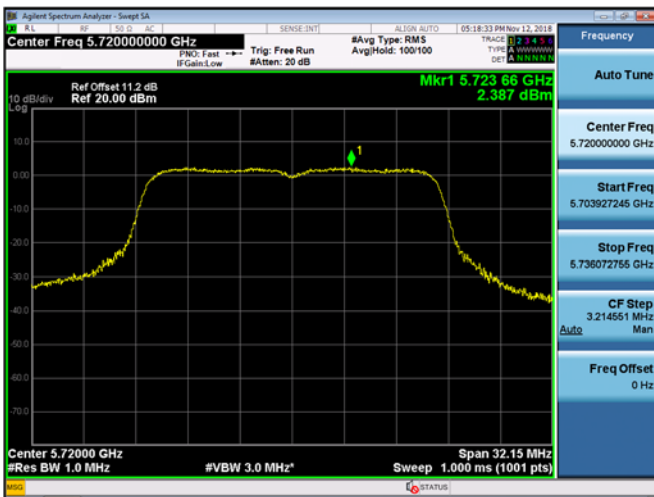
802.11a UNII 2C Band



802.11a UNII 3 Band



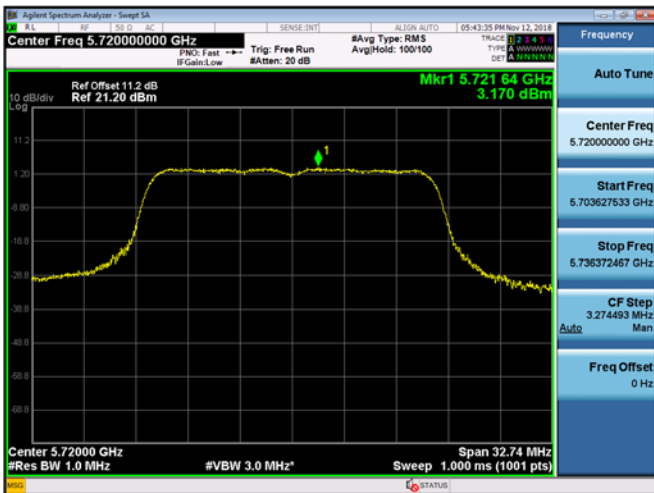
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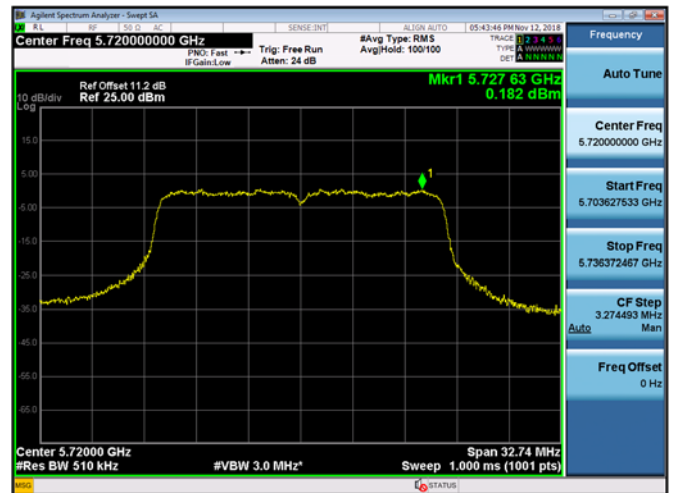
802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



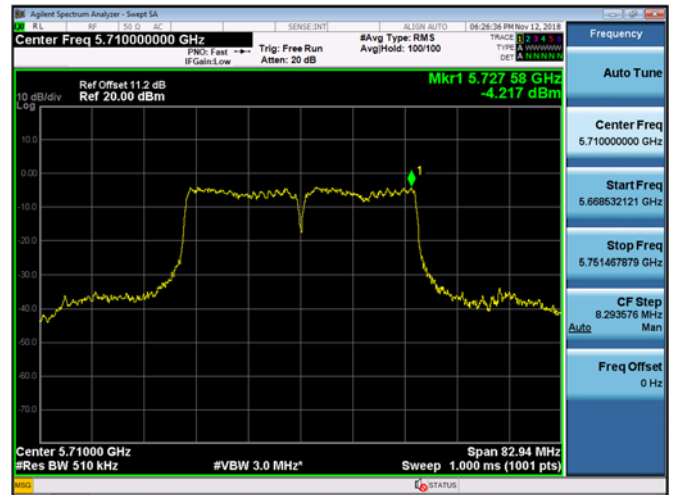
802.11n(HT40) UNII 3 Band



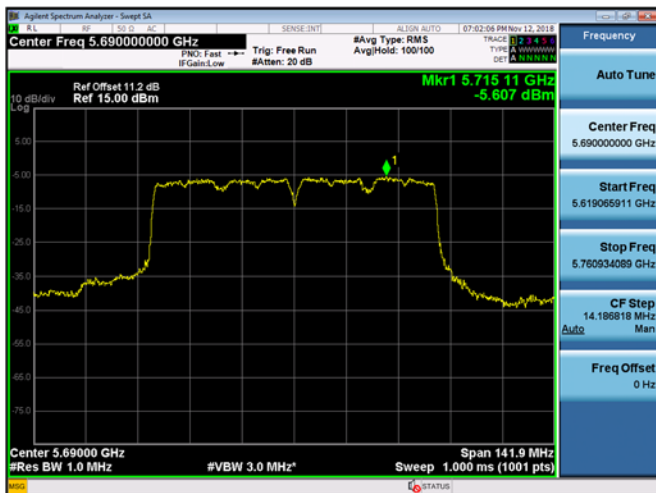
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[Ant2]

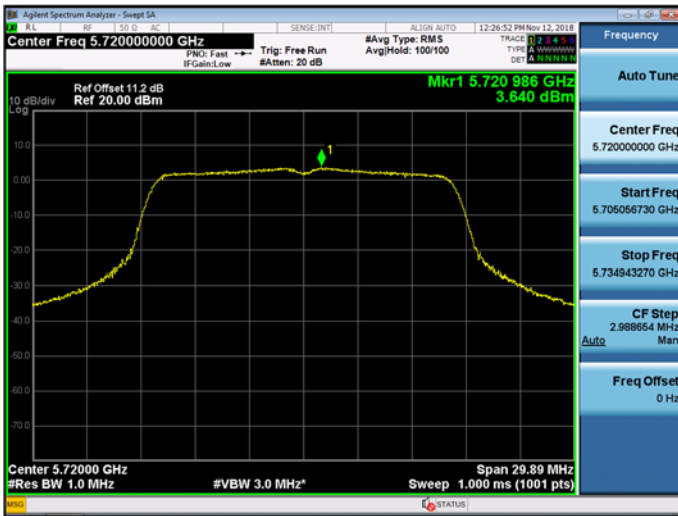
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	3.640	0.773	4.413	11.00
802.11n(HT20)			0.552	1.675	2.227	11.00
802.11ac(VHT20)			1.713	1.649	3.362	11.00
802.11a	5720 (UNII 3 Band)	144	-0.603	0.773	0.170	30.00
802.11n(HT20)			-2.703	1.675	-1.028	30.00
802.11ac(VHT20)			-1.271	1.649	0.378	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	-3.140	2.557	-0.583	11.00
802.11ac(VHT40)			-2.901	2.487	-0.414	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-5.982	2.557	-3.425	30.00
802.11ac(VHT40)			-6.190	2.487	-3.703	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Measured Density(dBm) + Duty Cycle Factor(dB)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-6.634	3.335	-3.299	11.00
	5690 (UNII 3 Band)	138	-10.569	3.335	-7.234	30.00

■ Test Plots

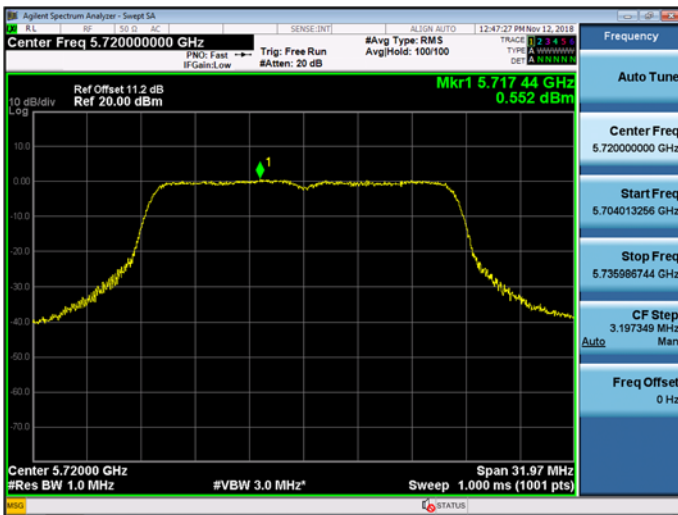
802.11a UNII 2C Band



802.11a UNII 3 Band



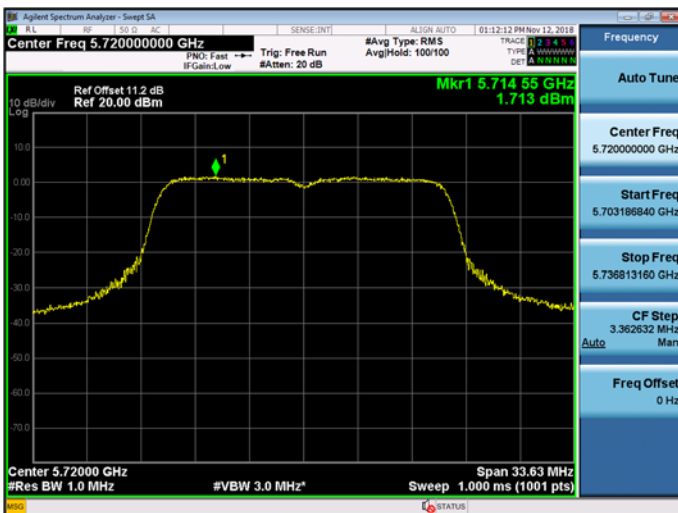
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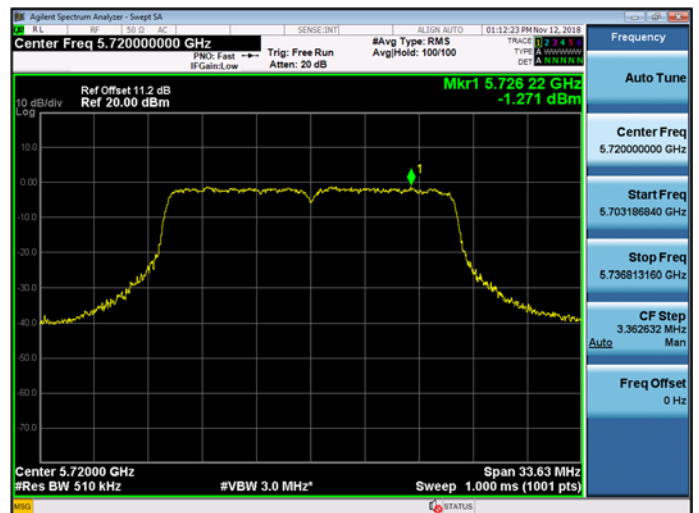
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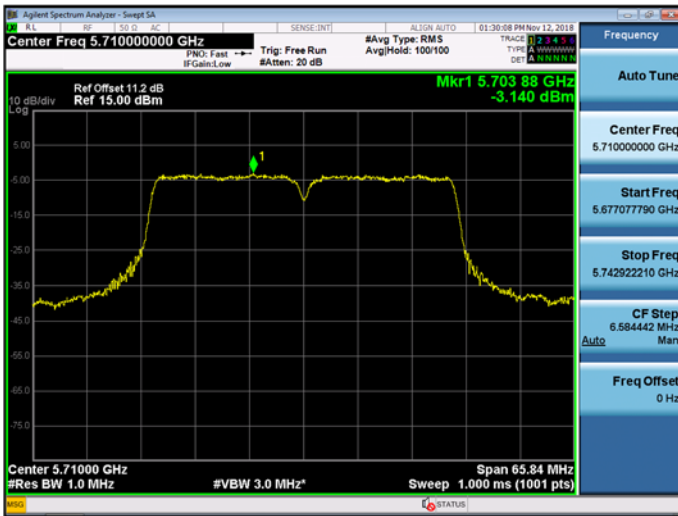
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



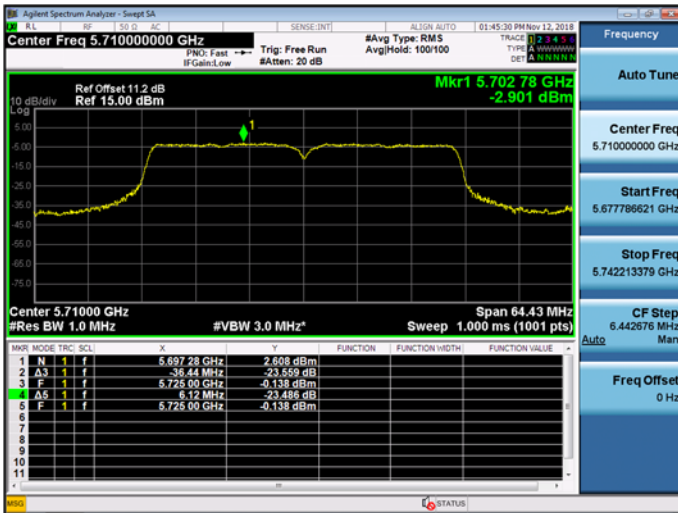
802.11n(HT40) UNII 2C Band



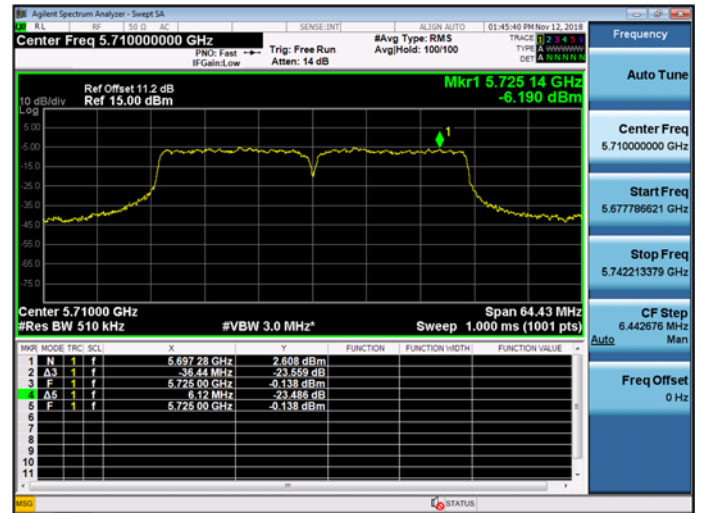
802.11n(HT40) UNII 3 Band



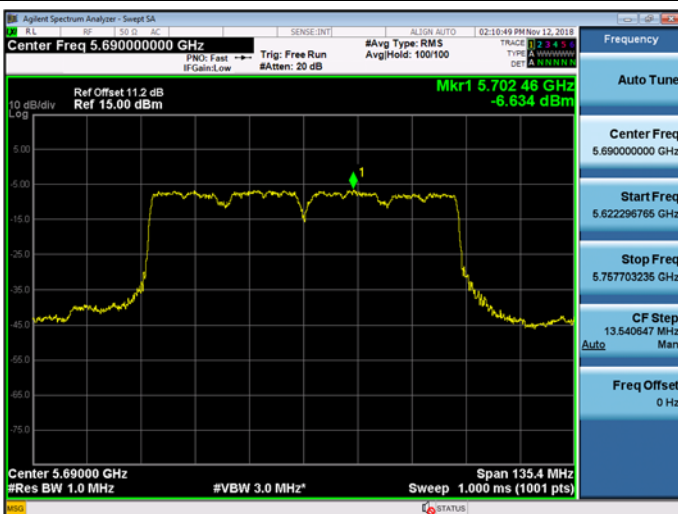
802.11ac(VHT40) UNII 2C Band



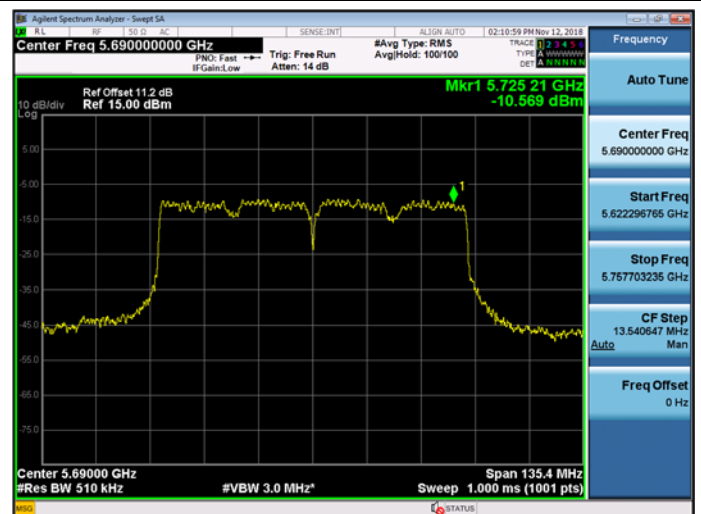
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.8 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 OATS 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

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	54.85	-1.02	V	53.83	68.20	14.37	PK
15540	51.89	-1.27	V	50.62	73.98	23.36	PK
15540	37.88	-1.27	V	36.61	53.98	17.37	AV
10360	54.65	-1.02	H	53.63	68.20	14.57	PK
15540	51.46	-1.27	H	50.19	73.98	23.79	PK
15540	37.65	-1.27	H	36.38	53.98	17.60	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	56.26	-0.29	V	55.97	68.20	12.23	PK
15600	53.90	-3.24	V	50.66	73.98	23.32	PK
15600	39.15	-3.24	V	35.91	53.98	18.07	AV
10400	55.89	-0.29	H	55.60	68.20	12.60	PK
15600	52.25	-3.24	H	49.01	73.98	24.97	PK
15600	39.10	-3.24	H	35.86	53.98	18.12	AV

Report No.: HCT-RF-1811-FC035-R2

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	56.67	-3.09	V	53.58	68.20	14.62	PK
15720	53.57	-3.17	V	50.40	73.98	23.58	PK
15720	39.51	-3.17	V	36.34	53.98	17.64	AV
10480	55.98	-3.09	H	52.89	68.20	15.31	PK
15720	53.92	-3.17	H	50.75	73.98	23.23	PK
15720	39.71	-3.17	H	36.54	53.98	17.44	AV

Report No.: HCT-RF-1811-FC035-R2

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	53.97	-1.02	V	52.95	68.20	15.25	PK
15540	51.83	-1.27	V	50.56	73.98	23.42	PK
15540	38.15	-1.27	V	36.88	53.98	17.10	AV
10360	53.54	-1.02	H	52.52	68.20	15.68	PK
15540	51.55	-1.27	H	50.28	73.98	23.70	PK
15540	37.97	-1.27	H	36.70	53.98	17.28	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	57.00	-0.29	V	56.71	68.20	11.49	PK
15600	52.76	-3.24	V	49.52	73.98	24.46	PK
15600	39.27	-3.24	V	36.03	53.98	17.95	AV
10400	56.39	-0.29	H	56.10	68.20	12.10	PK
15600	52.70	-3.24	H	49.46	73.98	24.52	PK
15600	39.15	-3.24	H	35.91	53.98	18.07	AV

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	56.31	-3.09	V	53.22	68.20	14.98	PK
15720	53.38	-3.17	V	50.21	73.98	23.77	PK
15720	38.99	-3.17	V	35.82	53.98	18.16	AV
10480	55.48	-3.09	H	52.39	68.20	15.81	PK
15720	52.43	-3.17	H	49.26	73.98	24.72	PK
15720	38.78	-3.17	H	35.61	53.98	18.37	AV

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	54.98	-1.02	V	53.96	68.20	14.24	PK
15540	51.95	-1.27	V	50.68	73.98	23.30	PK
15540	38.07	-1.27	V	36.80	53.98	17.18	AV
10360	54.14	-1.02	H	53.12	68.20	15.08	PK
15540	51.80	-1.27	H	50.53	73.98	23.45	PK
15540	38.10	-1.27	H	36.83	53.98	17.15	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	56.85	-0.29	V	56.56	68.20	11.64	PK
15600	53.10	-3.24	V	49.86	73.98	24.12	PK
15600	39.69	-3.24	V	36.45	53.98	17.53	AV
10400	56.14	-0.29	H	55.85	68.20	12.35	PK
15600	52.19	-3.24	H	48.95	73.98	25.03	PK
15600	39.56	-3.24	H	36.32	53.98	17.66	AV

Report No.: HCT-RF-1811-FC035-R2

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	56.52	-3.09	V	53.43	68.20	14.77	PK
15720	52.67	-3.17	V	49.50	73.98	24.48	PK
15720	39.85	-3.17	V	36.68	53.98	17.30	AV
10480	56.12	-3.09	H	53.03	68.20	15.17	PK
15720	51.83	-3.17	H	48.66	73.98	25.32	PK
15720	39.96	-3.17	H	36.79	53.98	17.19	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]	A.F.+C.L.-A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	54.14	-1.29	V	52.85	68.20	15.35	PK
15570	52.50	-1.21	V	51.29	73.98	22.69	PK
15570	39.32	-1.21	V	38.11	53.98	15.87	AV
10380	53.72	-1.29	H	52.43	68.20	15.77	PK
15570	52.04	-1.21	H	50.83	73.98	23.15	PK
15570	39.21	-1.21	H	38.00	53.98	15.98	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	54.97	-1.52	V	53.45	68.20	14.75	PK
15690	53.28	-1.90	V	51.38	73.98	22.60	PK
15690	39.90	-1.90	V	38.00	53.98	15.98	AV
10460	54.83	-1.52	H	53.31	68.20	14.89	PK
15690	52.67	-1.90	H	50.77	73.98	23.21	PK
15690	39.31	-1.90	H	37.41	53.98	16.57	AV

Report No.: HCT-RF-1811-FC035-R2

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	54.28	-1.29	V	52.99	68.20	15.21	PK
15570	51.95	-1.21	V	50.74	73.98	23.24	PK
15570	39.25	-1.21	V	38.04	53.98	15.94	AV
10380	53.55	-1.29	H	52.26	68.20	15.94	PK
15570	53.18	-1.21	H	51.97	73.98	22.01	PK
15570	39.16	-1.21	H	37.95	53.98	16.03	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	54.99	-1.52	V	53.47	68.20	14.73	PK
15690	53.77	-1.90	V	51.87	73.98	22.11	PK
15690	39.35	-1.90	V	37.45	53.98	16.53	AV
10460	54.64	-1.52	H	53.12	68.20	15.08	PK
15690	53.61	-1.90	H	51.71	73.98	22.27	PK
15690	39.41	-1.90	H	37.51	53.98	16.47	AV

Report No.: HCT-RF-1811-FC035-R2

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	54.76	-1.73	V	53.03	68.20	15.17	PK
15630	52.81	-1.86	V	50.95	73.98	23.03	PK
15630	41.09	-1.86	V	39.23	53.98	14.75	AV
10420	54.67	-1.73	H	52.94	68.20	15.26	PK
15630	52.46	-1.86	H	50.60	73.98	23.38	PK
15630	41.01	-1.86	H	39.15	53.98	14.83	AV

Report No.: HCT-RF-1811-FC035-R2

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	56.24	-1.52	V	54.72	68.20	13.48	PK
15780	53.45	-2.64	V	50.81	73.98	23.17	PK
15780	38.92	-2.64	V	36.28	53.98	17.70	AV
10520	55.84	-1.52	H	54.32	68.20	13.88	PK
15780	53.07	-2.64	H	50.43	73.98	23.55	PK
15780	38.81	-2.64	H	36.17	53.98	17.81	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	55.90	-1.32	V	54.58	73.98	19.40	PK
10600	41.61	-1.32	V	40.29	53.98	13.69	AV
15900	52.37	-1.51	V	50.86	73.98	23.12	PK
15900	39.45	-1.51	V	37.94	53.98	16.04	AV
10600	55.73	-1.32	H	54.41	73.98	19.57	PK
10600	41.53	-1.32	H	40.21	53.98	13.77	AV
15900	54.29	-1.51	H	52.78	73.98	21.20	PK
15900	39.53	-1.51	H	38.02	53.98	15.96	AV

Report No.: HCT-RF-1811-FC035-R2

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	54.05	-1.01	V	53.04	73.98	20.94	PK
10640	40.89	-1.01	V	39.88	53.98	14.10	AV
15960	54.10	-2.17	V	51.93	73.98	22.05	PK
15960	39.77	-2.17	V	37.60	53.98	16.38	AV
10640	53.53	-1.01	H	52.52	73.98	21.46	PK
10640	40.06	-1.01	H	39.05	53.98	14.93	AV
15960	55.25	-2.17	H	53.08	73.98	20.90	PK
15960	40.50	-2.17	H	38.33	53.98	15.65	AV

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	54.48	-1.52	V	52.96	68.20	15.24	PK
15780	52.45	-2.64	V	49.81	73.98	24.17	PK
15780	40.02	-2.64	V	37.38	53.98	16.60	AV
10520	54.22	-1.52	H	52.70	68.20	15.50	PK
15780	53.63	-2.64	H	50.99	73.98	22.99	PK
15780	40.13	-2.64	H	37.49	53.98	16.49	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	54.46	-1.32	V	53.14	73.98	20.84	PK
10600	41.44	-1.32	V	40.12	53.98	13.86	AV
15900	52.13	-1.51	V	50.62	73.98	23.36	PK
15900	39.02	-1.51	V	37.51	53.98	16.47	AV
10600	54.12	-1.32	H	52.80	73.98	21.18	PK
10600	41.22	-1.32	H	39.90	53.98	14.08	AV
15900	52.49	-1.51	H	50.98	73.98	23.00	PK
15900	39.24	-1.51	H	37.73	53.98	16.25	AV

Report No.: HCT-RF-1811-FC035-R2

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	52.74	-1.01	V	51.73	73.98	22.25	PK
10640	41.16	-1.01	V	40.15	53.98	13.83	AV
15960	53.12	-2.17	V	50.95	73.98	23.03	PK
15960	40.21	-2.17	V	38.04	53.98	15.94	AV
10640	52.32	-1.01	H	51.31	73.98	22.67	PK
10640	41.03	-1.01	H	40.02	53.98	13.96	AV
15960	53.35	-2.17	H	51.18	73.98	22.80	PK
15960	40.33	-2.17	H	38.16	53.98	15.82	AV

Report No.: HCT-RF-1811-FC035-R2

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	56.07	-1.52	V	54.55	68.20	13.65	PK
15780	53.55	-2.64	V	50.91	73.98	23.07	PK
15780	40.70	-2.64	V	38.06	53.98	15.92	AV
10520	55.99	-1.52	H	54.47	68.20	13.73	PK
15780	53.75	-2.64	H	51.11	73.98	22.87	PK
15780	40.89	-2.64	H	38.25	53.98	15.73	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	55.93	-1.32	V	54.61	73.98	19.37	PK
10600	42.37	-1.32	V	41.05	53.98	12.93	AV
15900	54.02	-1.51	V	52.51	73.98	21.47	PK
15900	39.88	-1.51	V	38.37	53.98	15.61	AV
10600	55.48	-1.32	H	54.16	73.98	19.82	PK
10600	42.12	-1.32	H	40.80	53.98	13.18	AV
15900	54.36	-1.51	H	52.85	73.98	21.13	PK
15900	40.07	-1.51	H	38.56	53.98	15.42	AV

Report No.: HCT-RF-1811-FC035-R2

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	54.15	-1.01	V	53.14	73.98	20.84	PK
10640	40.46	-1.01	V	39.45	53.98	14.53	AV
15960	52.65	-2.17	V	50.48	73.98	23.50	PK
15960	40.02	-2.17	V	37.85	53.98	16.13	AV
10640	53.95	-1.01	H	52.94	73.98	21.04	PK
10640	40.23	-1.01	H	39.22	53.98	14.76	AV
15960	52.98	-2.17	H	50.81	73.98	23.17	PK
15960	40.27	-2.17	H	38.10	53.98	15.88	AV

Report No.: HCT-RF-1811-FC035-R2

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	54.02	-1.03	V	52.99	68.20	15.21	PK
15810	51.89	-2.29	V	49.60	73.98	24.38	PK
15810	39.11	-2.29	V	36.82	53.98	17.16	AV
10540	53.25	-1.03	H	52.22	68.20	15.98	PK
15810	52.19	-2.29	H	49.90	73.98	24.08	PK
15810	39.41	-2.29	H	37.12	53.98	16.86	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	54.12	-2.36	V	51.76	73.98	22.22	PK
10620	40.94	-2.36	V	38.58	53.98	15.40	AV
15930	52.89	-1.95	V	50.94	73.98	23.04	PK
15930	39.24	-1.95	V	37.29	53.98	16.69	AV
10620	53.71	-2.36	H	51.35	73.98	22.63	PK
10620	40.78	-2.36	H	38.42	53.98	15.56	AV
15930	53.32	-1.95	H	51.37	73.98	22.61	PK
15930	39.78	-1.95	H	37.83	53.98	16.15	AV

Report No.: HCT-RF-1811-FC035-R2

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	54.50	-1.03	V	53.47	68.20	14.73	PK
15810	52.45	-2.29	V	50.16	73.98	23.82	PK
15810	39.30	-2.29	V	37.01	53.98	16.97	AV
10540	54.21	-1.03	H	53.18	68.20	15.02	PK
15810	51.62	-2.29	H	49.33	73.98	24.65	PK
15810	39.26	-2.29	H	36.97	53.98	17.01	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	53.47	-2.36	V	51.11	73.98	22.87	PK
10620	40.86	-2.36	V	38.50	53.98	15.48	AV
15930	52.40	-1.95	V	50.45	73.98	23.53	PK
15930	39.63	-1.95	V	37.68	53.98	16.30	AV
10620	52.68	-2.36	H	50.32	73.98	23.66	PK
10620	39.81	-2.36	H	37.45	53.98	16.53	AV
15930	52.00	-1.95	H	50.05	73.98	23.93	PK
15930	39.45	-1.95	H	37.50	53.98	16.48	AV

Report No.: HCT-RF-1811-FC035-R2

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	53.32	-0.75	V	52.57	68.20	15.63	PK
15870	52.70	-2.64	V	50.06	73.98	23.92	PK
15870	40.76	-2.64	V	38.12	53.98	15.86	AV
10580	52.87	-0.75	H	52.12	68.20	16.08	PK
15870	52.28	-2.64	H	49.64	73.98	24.34	PK
15870	40.71	-2.64	H	38.07	53.98	15.91	AV

Report No.: HCT-RF-1811-FC035-R2

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	55.96	0.37	V	56.33	73.98	17.65	PK
11000	41.86	0.37	V	42.23	53.98	11.75	AV
16500	52.01	0.03	V	52.04	68.20	16.16	PK
11000	54.65	0.37	H	55.02	73.98	18.96	PK
11000	41.53	0.37	H	41.90	53.98	12.08	AV
16500	52.81	0.03	H	52.84	68.20	15.36	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
11200	54.10	-1.31	V	52.79	73.98	21.19	PK
11200	40.23	-1.31	V	38.92	53.98	15.06	AV
16800	51.23	1.66	V	52.89	68.20	15.31	PK
11200	53.61	-1.31	H	52.30	73.98	21.68	PK
11200	40.06	-1.31	H	38.75	53.98	15.23	AV
16800	50.86	1.66	H	52.52	68.20	15.68	PK

Report No.: HCT-RF-1811-FC035-R2

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	54.68	0.22	V	54.90	73.98	19.08	PK
11440	41.25	0.22	V	41.47	53.98	12.51	AV
17160	51.69	1.94	V	53.63	68.20	14.57	PK
11440	54.39	0.22	H	54.61	73.98	19.37	PK
11440	40.89	0.22	H	41.11	53.98	12.87	AV
17160	52.37	1.94	H	54.31	68.20	13.89	PK

Report No.: HCT-RF-1811-FC035-R2

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	59.85	0.37	V	60.22	73.98	13.76	PK
11000	42.06	0.37	V	42.43	53.98	11.55	AV
16500	52.45	0.03	V	52.48	68.20	15.72	PK
11000	59.45	0.37	H	59.82	73.98	14.16	PK
11000	41.98	0.37	H	42.35	53.98	11.63	AV
16500	52.75	0.03	H	52.78	68.20	15.42	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
11200	54.37	-1.31	V	53.06	73.98	20.92	PK
11200	41.23	-1.31	V	39.92	53.98	14.06	AV
16800	54.42	1.66	V	56.08	68.20	12.12	PK
11200	54.23	-1.31	H	52.92	73.98	21.06	PK
11200	42.11	-1.31	H	40.80	53.98	13.18	AV
16800	54.89	1.66	H	56.55	68.20	11.65	PK

Report No.: HCT-RF-1811-FC035-R2

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	53.72	0.22	V	53.94	73.98	20.04	PK
11440	41.06	0.22	V	41.28	53.98	12.70	AV
17160	51.55	1.94	V	53.49	68.20	14.71	PK
11440	53.52	0.22	H	53.74	73.98	20.24	PK
11440	40.98	0.22	H	41.20	53.98	12.78	AV
17160	51.80	1.94	H	53.74	68.20	14.46	PK

Report No.: HCT-RF-1811-FC035-R2

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	55.93	0.37	V	56.30	73.98	17.68	PK
11000	42.09	0.37	V	42.46	53.98	11.52	AV
16500	51.88	0.03	V	51.91	68.20	16.29	PK
11000	54.85	0.37	H	55.22	73.98	18.76	PK
11000	41.99	0.37	H	42.36	53.98	11.62	AV
16500	52.06	0.03	H	52.09	68.20	16.11	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
11200	53.94	-1.31	V	52.63	73.98	21.35	PK
11200	41.23	-1.31	V	39.92	53.98	14.06	AV
16800	53.21	1.66	V	54.87	68.20	13.33	PK
11200	53.58	-1.31	H	52.27	73.98	21.71	PK
11200	41.02	-1.31	H	39.71	53.98	14.27	AV
16800	53.25	1.66	H	54.91	68.20	13.29	PK

Report No.: HCT-RF-1811-FC035-R2

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	54.66	0.22	V	54.88	73.98	19.10	PK
11440	41.35	0.22	V	41.57	53.98	12.41	AV
17160	52.12	1.94	V	54.06	68.20	14.14	PK
11440	54.45	0.22	H	54.67	73.98	19.31	PK
11440	41.12	0.22	H	41.34	53.98	12.64	AV
17160	52.32	1.94	H	54.26	68.20	13.94	PK

Report No.: HCT-RF-1811-FC035-R2

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	52.07	0.07	V	52.14	73.98	21.84	PK
11020	39.67	0.07	V	39.74	53.98	14.24	AV
16530	52.11	-0.71	V	51.40	68.20	16.80	PK
11020	51.78	0.07	H	51.85	73.98	22.13	PK
11020	39.23	0.07	H	39.30	53.98	14.68	AV
16530	52.48	-0.71	H	51.77	68.20	16.43	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: 0

Operating Frequency 5590 MHz

Channel No. 118 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
11180	53.55	-1.03	V	52.52	73.98	21.46	PK
11180	40.87	-1.03	V	39.84	53.98	14.14	AV
16770	51.89	2.85	V	54.74	68.20	13.46	PK
11180	53.11	-1.03	H	52.08	73.98	21.90	PK
11180	40.44	-1.03	H	39.41	53.98	14.57	AV
16770	52.26	2.85	H	55.11	68.20	13.09	PK

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	53.16	-0.15	V	53.01	73.98	20.97	PK
11420	40.64	-0.15	V	40.49	53.98	13.49	AV
17130	50.89	4.39	V	55.28	68.20	12.92	PK
11420	52.78	-0.15	H	52.63	73.98	21.35	PK
11420	40.24	-0.15	H	40.09	53.98	13.89	AV
17130	51.31	4.39	H	55.70	68.20	12.50	PK

Report No.: HCT-RF-1811-FC035-R2

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	52.82	0.07	V	52.89	73.98	21.09	PK
11020	40.17	0.07	V	40.24	53.98	13.74	AV
16530	52.16	-0.71	V	51.45	68.20	16.75	PK
11020	52.47	0.07	H	52.54	73.98	21.44	PK
11020	39.96	0.07	H	40.03	53.98	13.95	AV
16530	51.21	-0.71	H	50.50	68.20	17.70	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: 0

Operating Frequency 5590 MHz

Channel No. 118 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	54.87	-1.03	V	53.84	73.98	20.14	PK
11160	40.62	-1.03	V	39.59	53.98	14.39	AV
16740	51.38	2.85	V	54.23	68.20	13.97	PK
11160	53.61	-1.03	H	52.58	73.98	21.40	PK
11160	40.57	-1.03	H	39.54	53.98	14.44	AV
16740	51.36	2.85	H	54.21	68.20	13.99	PK

Report No.: HCT-RF-1811-FC035-R2

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	53.90	-0.15	V	53.75	73.98	20.23	PK
11420	40.49	-0.15	V	40.34	53.98	13.64	AV
17130	50.89	4.39	V	55.28	68.20	12.92	PK
11420	53.36	-0.15	H	53.21	73.98	20.77	PK
11420	40.26	-0.15	H	40.11	53.98	13.87	AV
17130	50.55	4.39	H	54.94	68.20	13.26	PK

Report No.: HCT-RF-1811-FC035-R2

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	53.55	-0.38	V	53.17	73.98	20.81	PK
11060	41.22	-0.38	V	40.84	53.98	13.14	AV
16590	52.99	1.18	V	54.17	68.20	14.03	PK
11060	52.30	-0.38	H	51.92	73.98	22.06	PK
11060	40.96	-0.38	H	40.58	53.98	13.40	AV
16590	51.58	1.18	H	52.76	68.20	15.44	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	53.19	-0.42	V	52.77	73.98	21.21	PK
11380	41.80	-0.42	V	41.38	53.98	12.60	AV
17070	51.17	2.52	V	53.69	68.20	14.51	PK
11380	51.97	-0.42	H	51.55	73.98	22.43	PK
11380	40.97	-0.42	H	40.55	53.98	13.43	AV
17070	50.56	2.52	H	53.08	68.20	15.12	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	54.58	-0.59	V	53.99	73.98	19.99	PK
11490	41.00	-0.59	V	40.41	53.98	13.57	AV
17235	51.50	3.63	V	55.13	68.20	13.07	PK
11490	54.48	-0.59	H	53.89	73.98	20.09	PK
11490	40.61	-0.59	H	40.02	53.98	13.96	AV
17235	50.94	3.63	H	54.57	68.20	13.63	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	55.91	-0.97	V	54.94	73.98	19.04	PK
11570	40.89	-0.97	V	39.92	53.98	14.06	AV
17355	50.63	5.02	V	55.65	68.20	12.55	PK
11570	55.49	-0.97	H	54.52	73.98	19.46	PK
11570	40.40	-0.97	H	39.43	53.98	14.55	AV
17355	50.44	5.02	H	55.46	68.20	12.74	PK

Report No.: HCT-RF-1811-FC035-R2

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	54.80	-1.70	V	53.10	73.98	20.88	PK
11650	40.89	-1.70	V	39.19	53.98	14.79	AV
17475	50.44	5.75	V	56.19	68.20	12.01	PK
11650	54.57	-1.70	H	52.87	73.98	21.11	PK
11650	41.01	-1.70	H	39.31	53.98	14.67	AV
17475	51.10	5.75	H	56.85	68.20	11.35	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	54.37	-0.59	V	53.78	73.98	20.20	PK
11490	40.86	-0.59	V	40.27	53.98	13.71	AV
17235	51.54	3.63	V	55.17	68.20	13.03	PK
11490	54.11	-0.59	H	53.52	73.98	20.46	PK
11490	40.65	-0.59	H	40.06	53.98	13.92	AV
17235	51.77	3.63	H	55.40	68.20	12.80	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	54.36	-0.97	V	53.39	73.98	20.59	PK
11570	41.15	-0.97	V	40.18	53.98	13.80	AV
17355	50.55	5.02	V	55.57	68.20	12.63	PK
11570	54.12	-0.97	H	53.15	73.98	20.83	PK
11570	41.02	-0.97	H	40.05	53.98	13.93	AV
17355	50.78	5.02	H	55.80	68.20	12.40	PK

Report No.: HCT-RF-1811-FC035-R2

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	54.68	-1.70	V	52.98	73.98	21.00	PK
11650	40.94	-1.70	V	39.24	53.98	14.74	AV
17475	50.11	5.75	V	55.86	68.20	12.34	PK
11650	54.44	-1.70	H	52.74	73.98	21.24	PK
11650	40.54	-1.70	H	38.84	53.98	15.14	AV
17475	50.35	5.75	H	56.10	68.20	12.10	PK

Report No.: HCT-RF-1811-FC035-R2

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	53.22	-0.59	V	52.63	73.98	21.35	PK
11490	40.10	-0.59	V	39.51	53.98	14.47	AV
17235	50.21	3.63	V	53.84	68.20	14.36	PK
11490	53.02	-0.59	H	52.43	73.98	21.55	PK
11490	39.87	-0.59	H	39.28	53.98	14.70	AV
17235	50.41	3.63	H	54.04	68.20	14.16	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	54.79	-0.97	V	53.82	73.98	20.16	PK
11570	40.31	-0.97	V	39.34	53.98	14.64	AV
17355	51.15	5.02	V	56.17	68.20	12.03	PK
11570	54.25	-0.97	H	53.28	73.98	20.70	PK
11570	40.12	-0.97	H	39.15	53.98	14.83	AV
17355	51.12	5.02	H	56.14	68.20	12.06	PK

Report No.: HCT-RF-1811-FC035-R2

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	54.46	-1.70	V	52.76	73.98	21.22	PK
11650	41.42	-1.70	V	39.72	53.98	14.26	AV
17475	49.98	5.75	V	55.73	68.20	12.47	PK
11650	54.08	-1.70	H	52.38	73.98	21.60	PK
11650	40.12	-1.70	H	38.42	53.98	15.56	AV
17475	50.06	5.75	H	55.81	68.20	12.39	PK

Report No.: HCT-RF-1811-FC035-R2

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	53.47	-0.63	V	52.84	73.98	21.14	PK
11510	41.27	-0.63	V	40.64	53.98	13.34	AV
17265	50.89	4.53	V	55.42	68.20	12.78	PK
11510	53.02	-0.63	H	52.39	73.98	21.59	PK
11510	40.78	-0.63	H	40.15	53.98	13.83	AV
17265	51.23	4.53	H	55.76	68.20	12.44	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	54.23	-0.53	V	53.70	73.98	20.28	PK
11590	41.07	-0.53	V	40.54	53.98	13.44	AV
17385	51.07	4.95	V	56.02	68.20	12.18	PK
11590	53.89	-0.53	H	53.36	73.98	20.62	PK
11590	40.55	-0.53	H	40.02	53.98	13.96	AV
17385	50.92	4.95	H	55.87	68.20	12.33	PK

Report No.: HCT-RF-1811-FC035-R2

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	53.58	-0.63	V	52.95	73.98	21.03	PK
11510	41.11	-0.63	V	40.48	53.98	13.50	AV
17265	50.89	4.53	V	55.42	68.20	12.78	PK
11510	53.14	-0.63	H	52.51	73.98	21.47	PK
11510	40.68	-0.63	H	40.05	53.98	13.93	AV
17265	50.13	4.53	H	54.66	68.20	13.54	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	53.68	-0.53	V	53.15	73.98	20.83	PK
11590	40.98	-0.53	V	40.45	53.98	13.53	AV
17385	50.64	4.95	V	55.59	68.20	12.61	PK
11590	53.46	-0.53	H	52.93	73.98	21.05	PK
11590	40.50	-0.53	H	39.97	53.98	14.01	AV
17385	50.54	4.95	H	55.49	68.20	12.71	PK

Report No.: HCT-RF-1811-FC035-R2

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	53.52	-0.48	V	53.04	73.98	20.94	PK
11550	42.00	-0.48	V	41.52	53.98	12.46	AV
17325	51.57	5.28	V	56.85	68.20	11.35	PK
11550	52.46	-0.48	H	51.98	73.98	22.00	PK
11550	41.84	-0.48	H	41.36	53.98	12.62	AV
17325	50.20	5.28	H	55.48	68.20	12.72	PK

[RSDB]

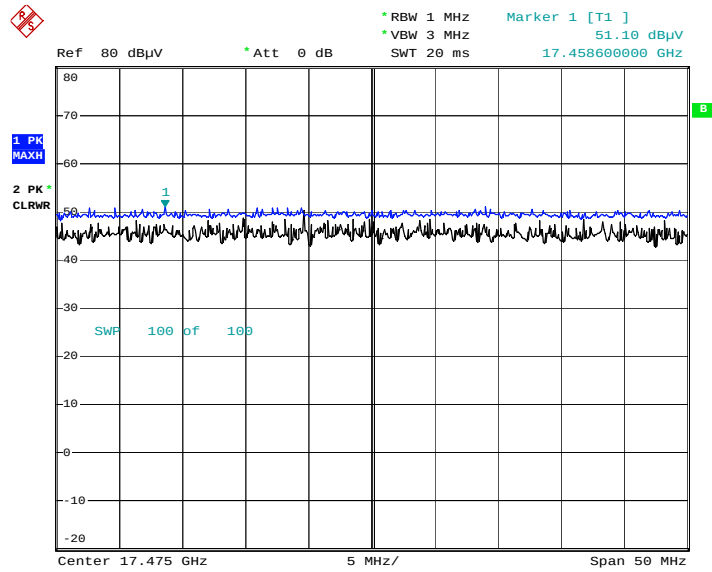
Operation Mode Antenna 1:	802.11b
Transfer Rate:	1 Mbps
Operating Frequency	2462 MHz
Channel No.	11 Ch

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
4924	50.15	1.00	V	51.15	73.98	22.83	PK
4924	41.10	1.00	V	42.10	53.98	11.88	AV
7386	47.59	11.10	V	58.69	73.98	15.29	PK
7386	36.67	11.10	V	47.77	53.98	6.21	AV
4924	50.72	1.00	H	51.72	73.98	22.26	PK
4924	42.85	1.00	H	43.85	53.98	10.13	AV
7386	48.27	11.10	H	59.37	73.98	14.61	PK
7386	38.22	11.10	H	49.32	53.98	4.66	AV
11650	54.26	-1.70	V	52.56	73.98	21.42	PK
11650	40.13	-1.70	V	38.43	53.98	15.55	AV
17475	50.89	5.75	V	56.64	68.20	11.56	PK
11650	53.72	-1.70	H	52.02	73.98	21.96	PK
11650	40.07	-1.70	H	38.37	53.98	15.61	AV
17475	51.44	5.75	H	57.19	68.20	11.01	PK

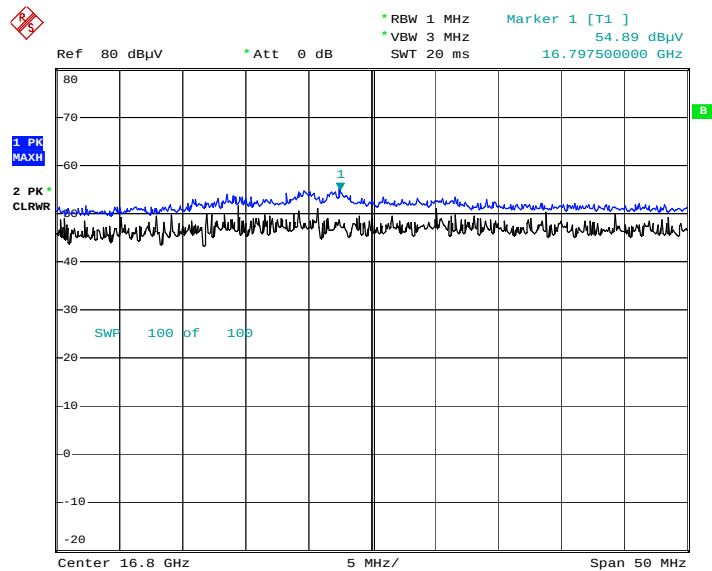
■ Test Plots

Peak Reading (802.11a, Ch.165 3rd Harmonic, H)



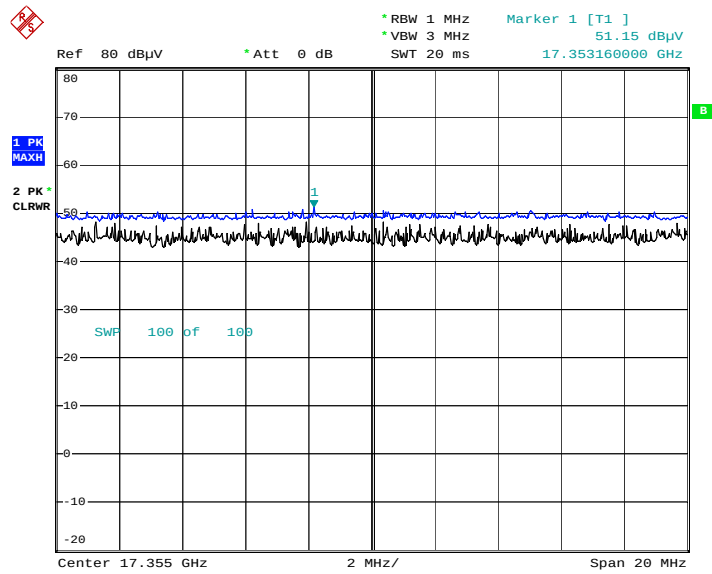
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Peak Reading (802.11n_HT20, Ch.120 3rd Harmonic, H)



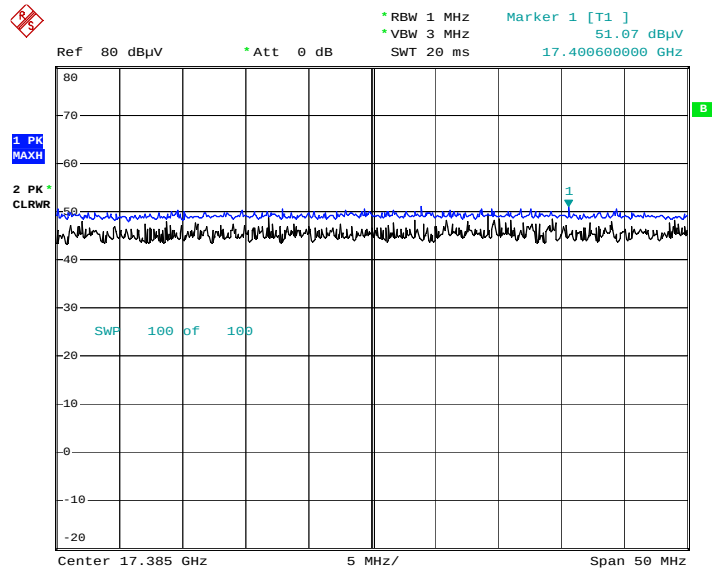
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Peak Reading (802.11ac_VHT20, Ch.157 3rd Harmonic, V)



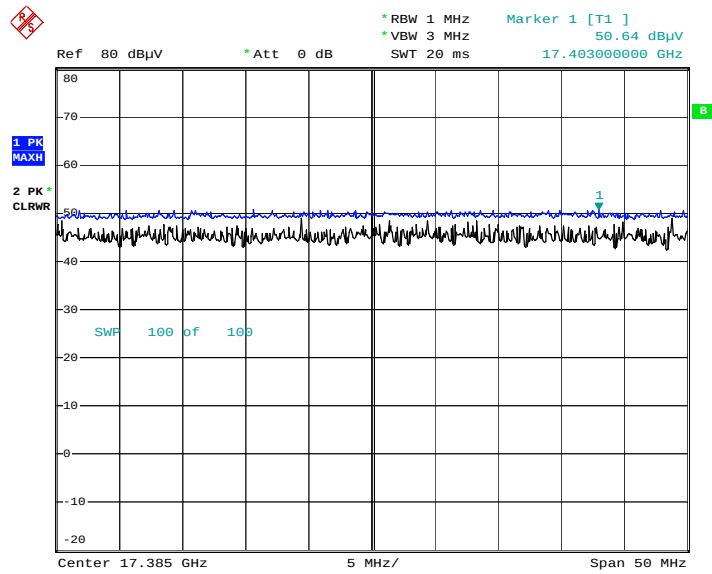
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Peak Reading (802.11n_HT40, Ch.159 3rd Harmonic, V)



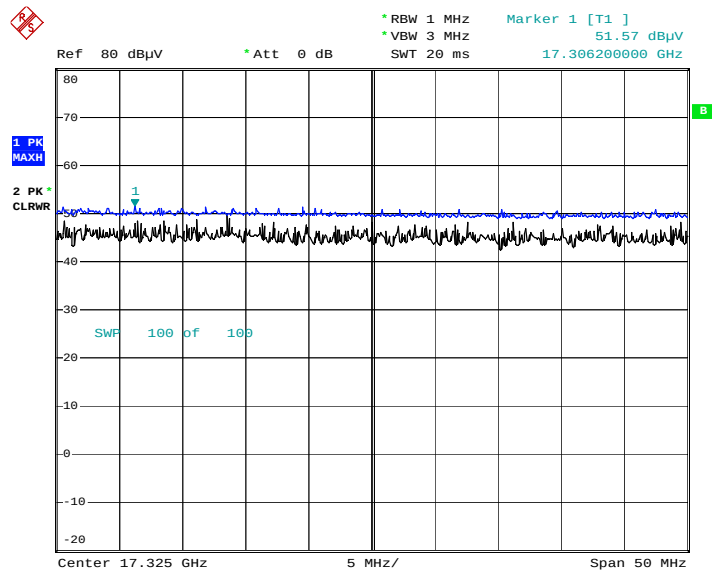
Date: 13.NOV.2018 13:29:43

Peak Reading (802.11ac_VHT40, Ch.159 3rd Harmonic, V)



Date: 13.NOV.2018 13:28:57

Peak Reading (802.11ac_VHT80, Ch.155 3rd Harmonic, V)

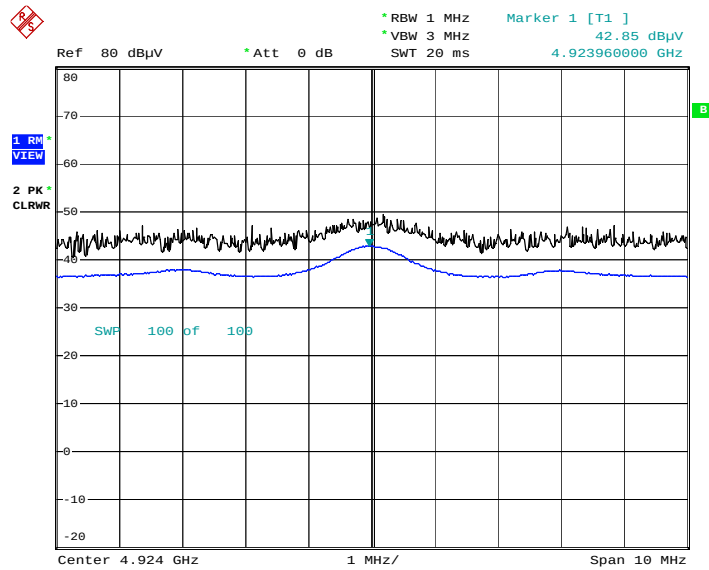


Date: 13.NOV.2018 13:25:26

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

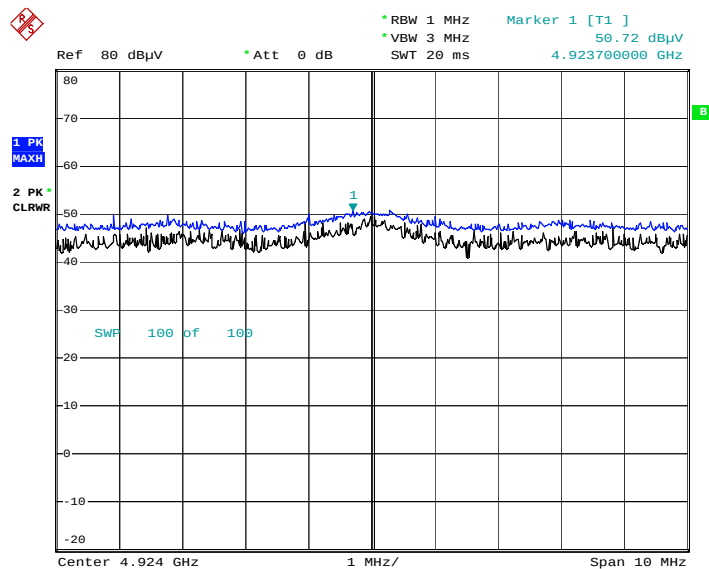
■ Test Plots(RSDB)

Average Reading (802.11b, Ch.11 2nd Harmonic, H)



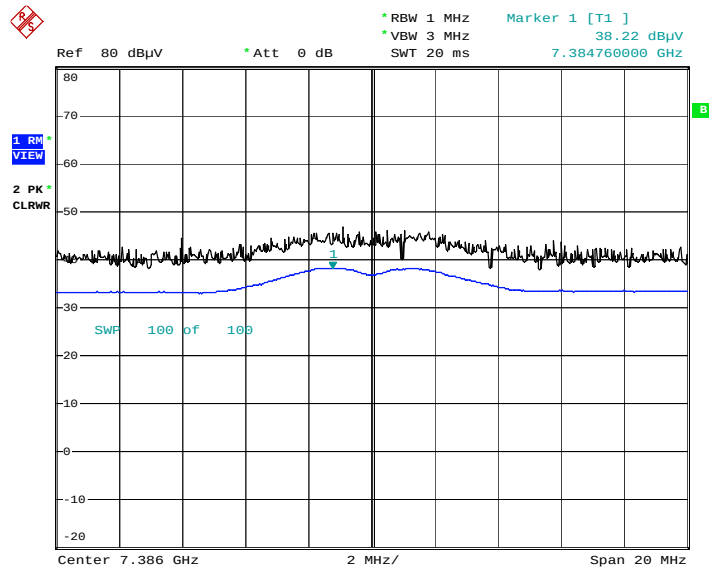
Date: 15.NOV.2018 09:03:39

Peak Reading (802.11b, Ch.11 2nd Harmonic, H)



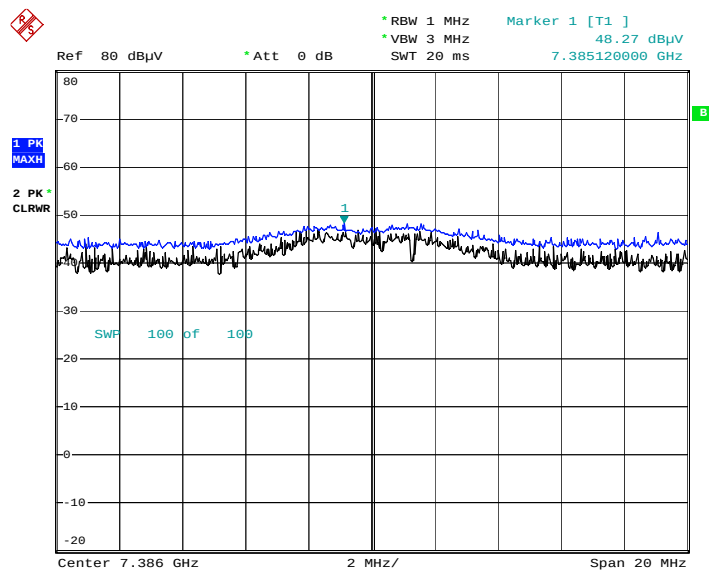
Date: 15.NOV.2018 09:04:13

Average Reading (802.11b, Ch.11 3rd Harmonic, H)



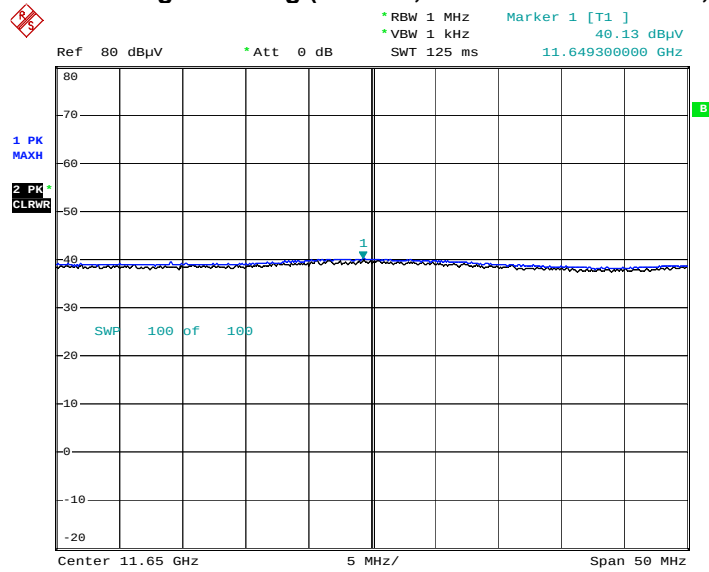
Date: 15.NOV.2018 09:42:57

Peak Reading (802.11b, Ch.11 3rd Harmonic, H)



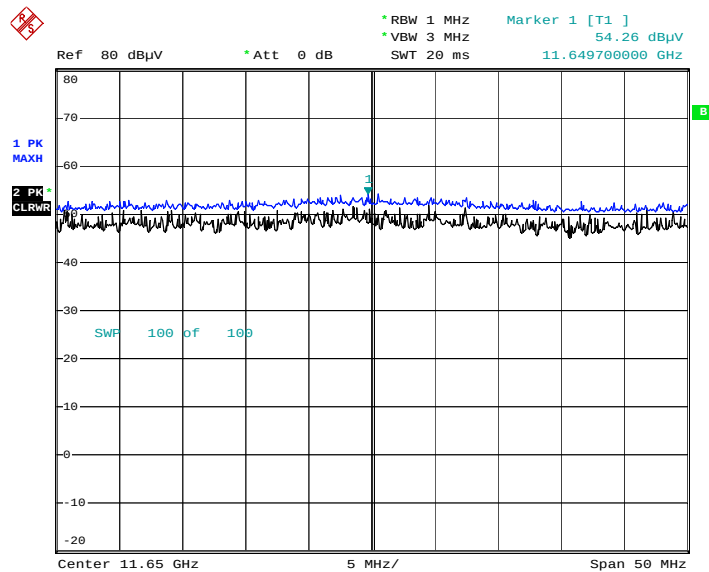
Date: 15.NOV.2018 09:42:30

Average Reading (802.11a, Ch.165 2nd Harmonic, V)



Date: 14.NOV.2018 15:03:46

Peak Reading (802.11a, Ch.165 2nd Harmonic, V)



Date: 14.NOV.2018 15:04:40

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

10.9 RADIATED RESTRICTED BAND EDGE

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	59.12	5.07	H	64.19	73.98	9.79	PK
5150	40.38	5.07	H	45.45	53.98	8.53	AV
5150	56.43	5.07	V	61.5	73.98	12.48	PK
5150	38.97	5.07	V	44.04	53.98	9.94	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	54.84	5.07	H	59.91	73.98	14.07	PK
5150	38.31	5.07	H	43.38	53.98	10.60	AV
5150	51.88	5.07	V	56.95	73.98	17.03	PK
5150	36.42	5.07	V	41.49	53.98	12.49	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	57.02	5.07	H	62.09	73.98	11.89	PK
5150	40.15	5.07	H	45.22	53.98	8.76	AV
5150	55.29	5.07	V	60.36	73.98	13.62	PK
5150	38.52	5.07	V	43.59	53.98	10.39	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	54.87	5.07	H	59.94	73.98	14.04	PK
5150	39.34	5.07	H	44.41	53.98	9.57	AV
5150	51.25	5.07	V	56.32	73.98	17.66	PK
5150	35.87	5.07	V	40.94	53.98	13.04	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	57.45	5.07	H	62.52	73.98	11.46	PK
5150	43.03	5.07	H	48.1	53.98	5.88	AV
5150	55.23	5.07	V	60.3	73.98	13.68	PK
5150	41.73	5.07	V	46.8	53.98	7.18	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	55.47	5.07	H	60.54	73.98	13.44	PK
5150	42.52	5.07	H	47.59	53.98	6.39	AV
5150	53.52	5.07	V	58.59	73.98	15.39	PK
5150	40.52	5.07	V	45.59	53.98	8.39	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	63.05	4.42	H	67.47	73.98	6.51	PK
5350	46.62	4.42	H	51.04	53.98	2.94	AV
5350	60.73	4.42	V	65.15	73.98	8.83	PK
5350	45.70	4.42	V	50.12	53.98	3.86	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	60.35	4.42	H	64.77	73.98	9.21	PK
5350	39.09	4.42	H	43.51	53.98	10.47	AV
5350	58.11	4.42	V	62.53	73.98	11.45	PK
5350	37.24	4.42	V	41.66	53.98	12.32	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	62.02	4.42	H	66.44	73.98	7.54	PK
5350	41.26	4.42	H	45.68	53.98	8.30	AV
5350	60.20	4.42	V	64.62	73.98	9.36	PK
5350	39.42	4.42	V	43.84	53.98	10.14	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	60.98	4.42	H	65.40	73.98	8.58	PK
5350	44.76	4.42	H	49.18	53.98	4.80	AV
5350	57.82	4.42	V	62.24	73.98	11.74	PK
5350	41.95	4.42	V	46.372	53.98	7.61	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	62.71	4.42	H	67.13	73.98	6.85	PK
5350	44.22	4.42	H	48.64	53.98	5.34	AV
5350	60.23	4.42	V	64.65	73.98	9.33	PK
5350	42.51	4.42	V	46.93	53.98	7.05	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	54.12	4.42	H	58.54	73.98	15.44	PK
5350	42.92	4.42	H	47.34	53.98	6.64	AV
5350	51.83	4.42	V	56.25	73.98	17.73	PK
5350	40.23	4.42	V	44.65	53.98	9.33	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	59.41	5.72	H	65.13	73.98	8.85	PK
5460	40.23	5.72	H	45.95	53.98	8.03	AV
5470	61.45	5.26	H	66.71	73.98	7.27	PK
5470	46.12	5.26	H	51.38	53.98	2.60	AV
5460	59.62	5.72	V	65.34	73.98	8.64	PK
5460	39.93	5.72	V	45.65	53.98	8.33	AV
5470	61.78	5.26	V	67.04	73.98	6.94	PK
5470	45.99	5.26	V	51.25	53.98	2.73	AV

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	56.42	5.72	H	62.14	73.98	11.84	PK
5460	37.03	5.72	H	42.75	53.98	11.23	AV
5470	57.30	5.26	H	62.56	73.98	11.42	PK
5470	40.81	5.26	H	46.07	53.98	7.91	AV
5460	58.68	5.72	V	64.4	73.98	9.58	PK
5460	37.80	5.72	V	43.52	53.98	10.46	AV
5470	60.70	5.26	V	65.96	73.98	8.02	PK
5470	38.70	5.26	V	43.96	53.98	10.02	AV

Report No.: HCT-RF-1811-FC035-R2

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	58.82	5.72	H	64.54	73.98	9.44	PK
5460	38.22	5.72	H	43.94	53.98	10.04	AV
5470	60.62	5.26	H	65.88	73.98	8.10	PK
5470	43.01	5.26	H	48.27	53.98	5.71	AV
5460	59.33	5.72	V	65.05	73.98	8.93	PK
5460	38.21	5.72	V	43.93	53.98	10.05	AV
5470	60.28	5.26	V	65.54	73.98	8.44	PK
5470	42.93	5.26	V	48.19	53.98	5.79	AV

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	57.97	5.72	H	63.69	73.98	10.29	PK
5460	37.48	5.72	H	43.2	53.98	10.78	AV
5470	59.62	5.26	H	64.88	73.98	9.10	PK
5470	44.88	5.26	H	50.14	53.98	3.84	AV
5460	58.01	5.72	V	63.73	73.98	10.25	PK
5460	37.73	5.72	V	43.45	53.98	10.53	AV
5470	59.89	5.26	V	65.15	73.98	8.83	PK
5470	44.27	5.26	V	49.53	53.98	4.45	AV

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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	58.88	5.72	H	64.60	73.98	9.38	PK
5460	41.18	5.72	H	46.9	53.98	7.08	AV
5470	60.19	5.26	H	65.45	73.98	8.53	PK
5470	46.27	5.26	H	51.53	53.98	2.45	AV
5460	54.89	5.72	V	60.61	73.98	13.37	PK
5460	40.52	5.72	V	46.24	53.98	7.74	AV
5470	59.82	5.26	V	65.08	73.98	8.90	PK
5470	45.90	5.26	V	51.16	53.98	2.82	AV

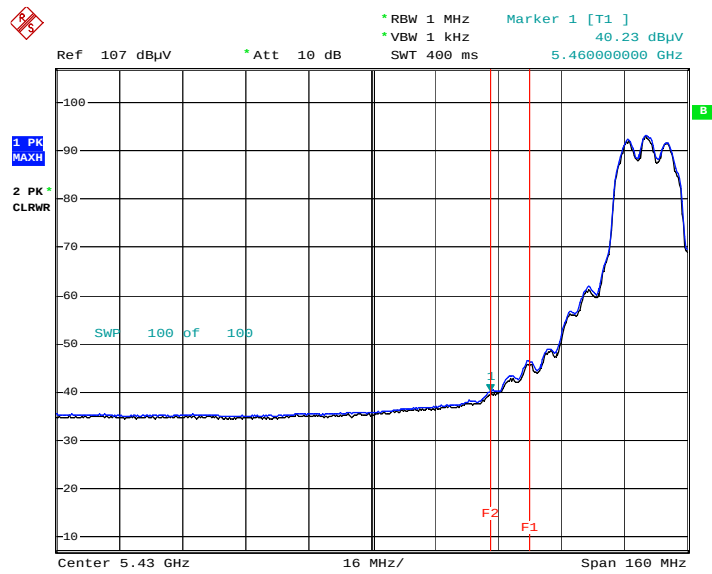
Report No.: HCT-RF-1811-FC035-R2

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	58.50	5.72	H	64.22	73.98	9.76	PK
5460	42.23	5.72	H	47.95	53.98	6.03	AV
5470	59.70	5.26	H	64.96	73.98	9.02	PK
5470	43.91	5.26	H	49.17	53.98	4.81	AV
5460	57.44	5.72	V	63.16	73.98	10.82	PK
5460	41.40	5.72	V	47.12	53.98	6.86	AV
5470	59.42	5.26	V	64.68	68.20	3.52	PK

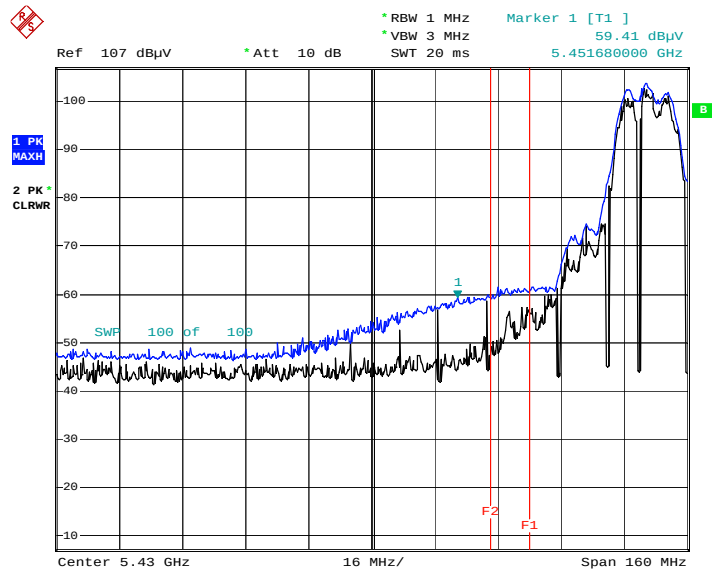
■ Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11a, Ch.100, H)



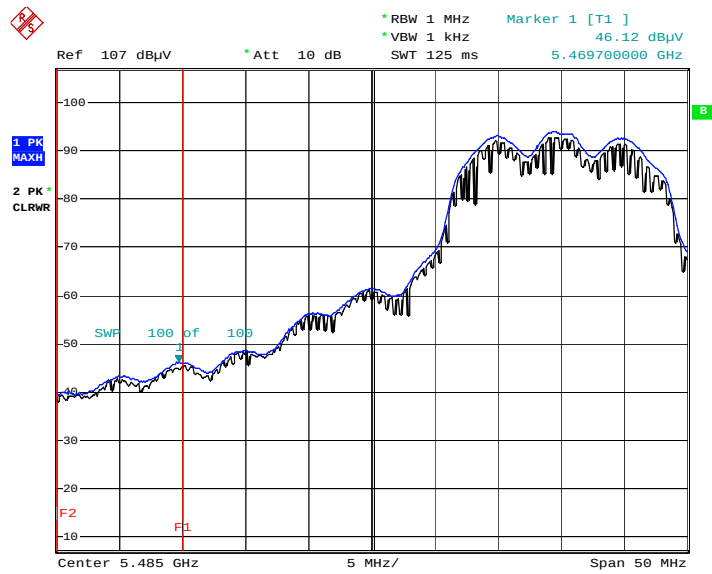
Date: 8.NOV.2018 09:42:52

Peak Reading (802.11a, Ch.100, H)



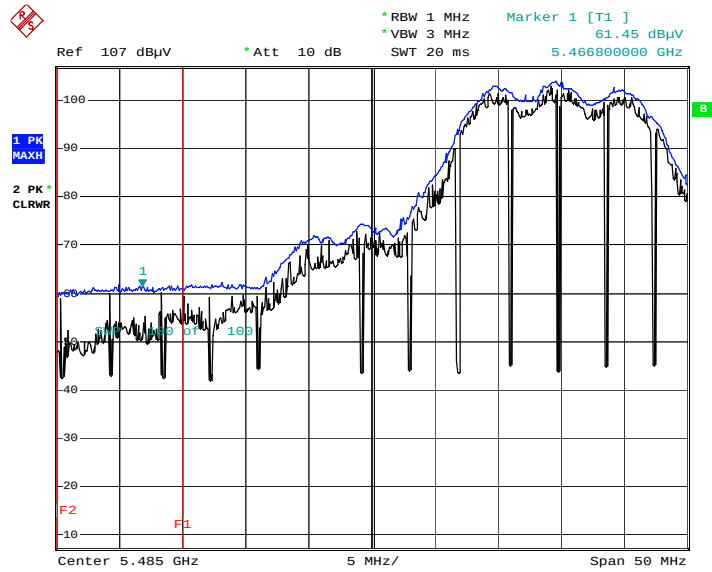
Date: 8.NOV.2018 09:41:40

Average Reading (802.11a, Ch.100, H)



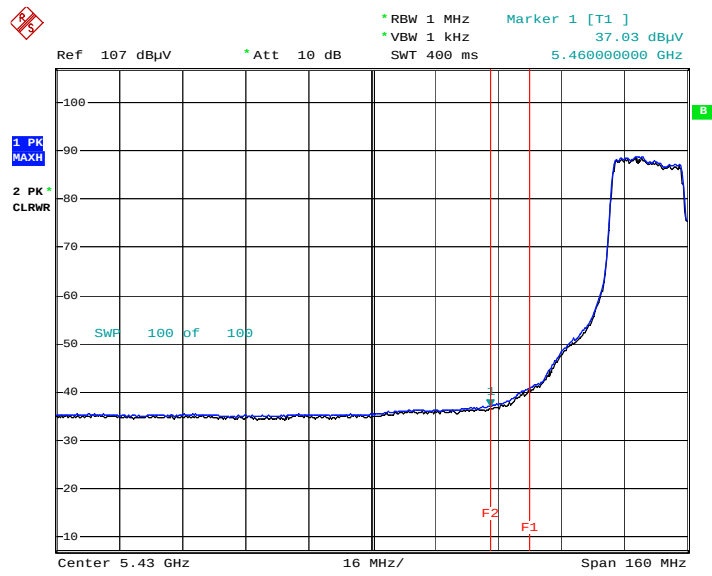
Date: 8.NOV.2018 09:39:37

Peak Reading (802.11a, Ch.100, H)



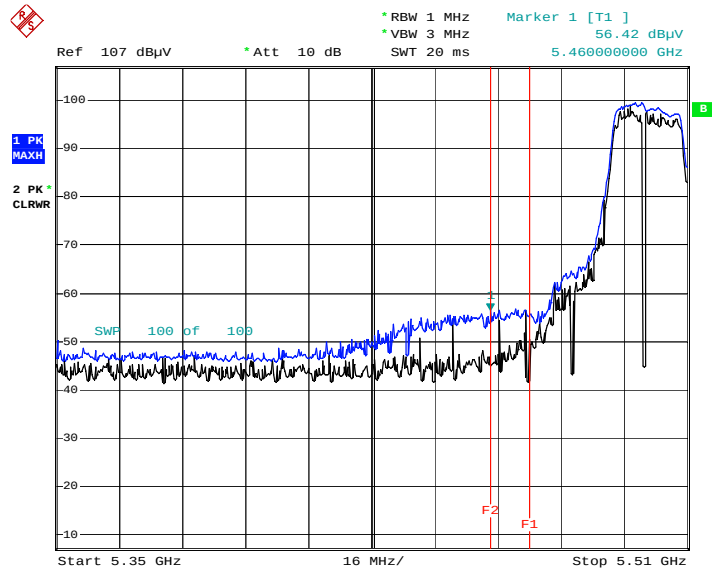
Date: 8.NOV.2018 09:40:45

Average Reading (802.11n_HT20, Ch.100, H)



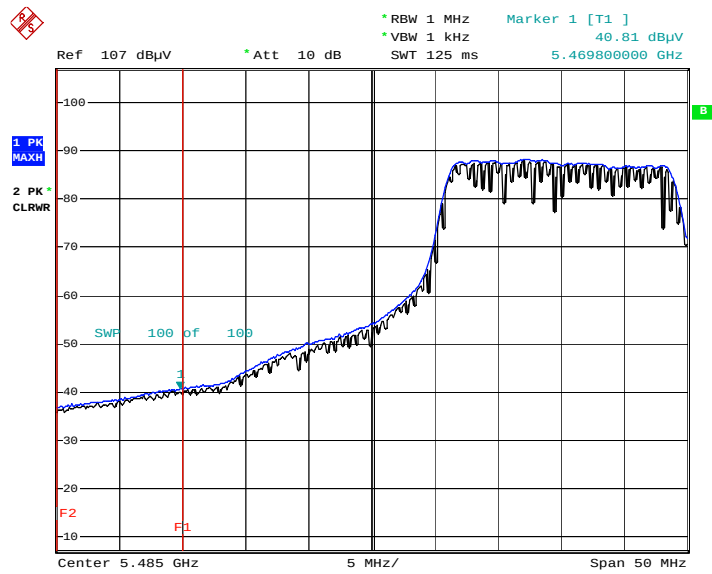
Date: 8.NOV.2018 09:53:41

Peak Reading (802.11n_HT20, Ch.100, H)



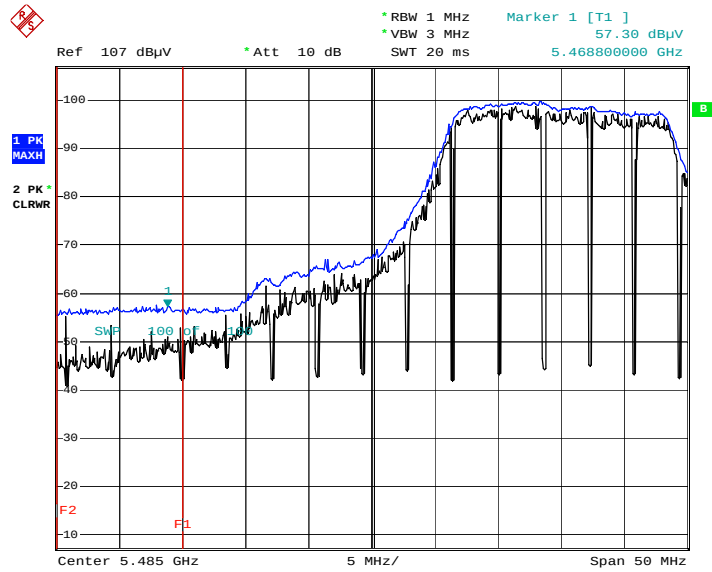
Date: 8.NOV.2018 09:51:55

Average Reading (802.11n_HT20, Ch.100, H)



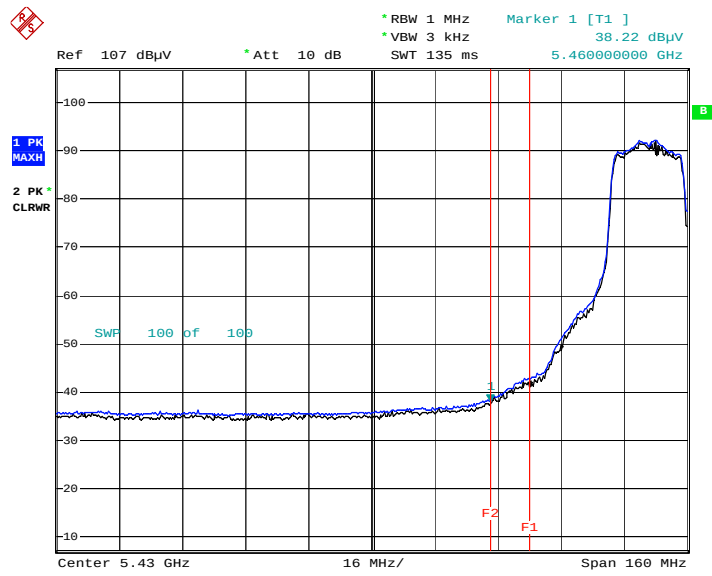
Date: 8.NOV.2018 09:50:09

Peak Reading (802.11n_HT20, Ch.100, H)



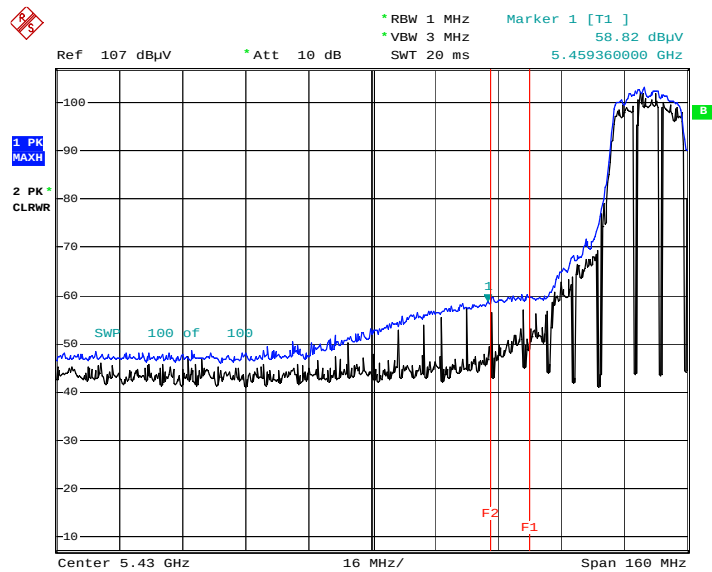
Date: 8.NOV.2018 09:51:28

Average Reading (802.11ac_VHT20, Ch.100, H)



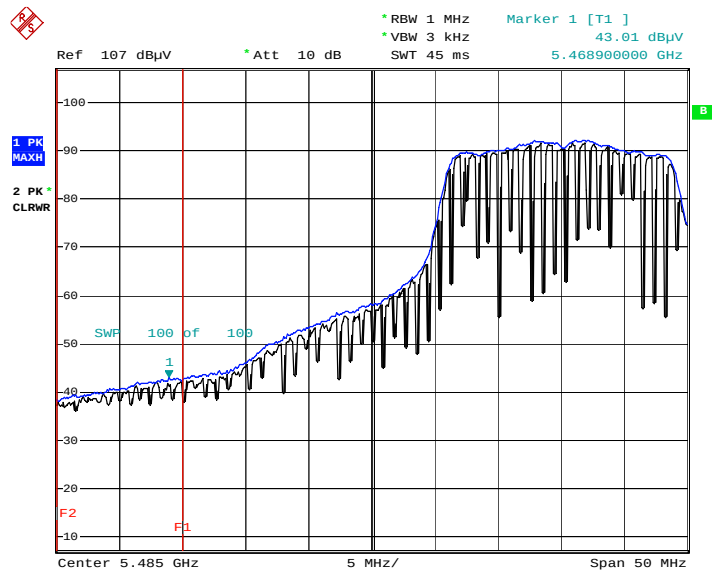
Date: 8.NOV.2018 10:01:14

Peak Reading (802.11ac_VHT20, Ch.100, H)



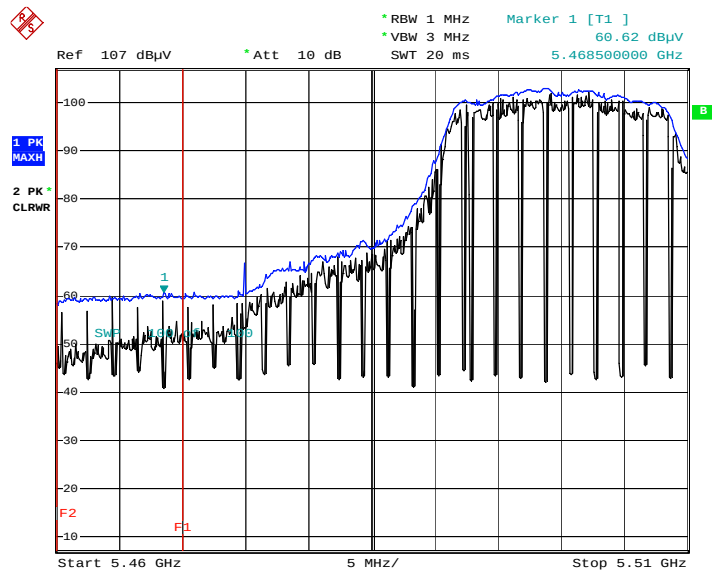
Date: 8.NOV.2018 10:00:35

Average Reading (802.11ac_VHT20, Ch.100, H)



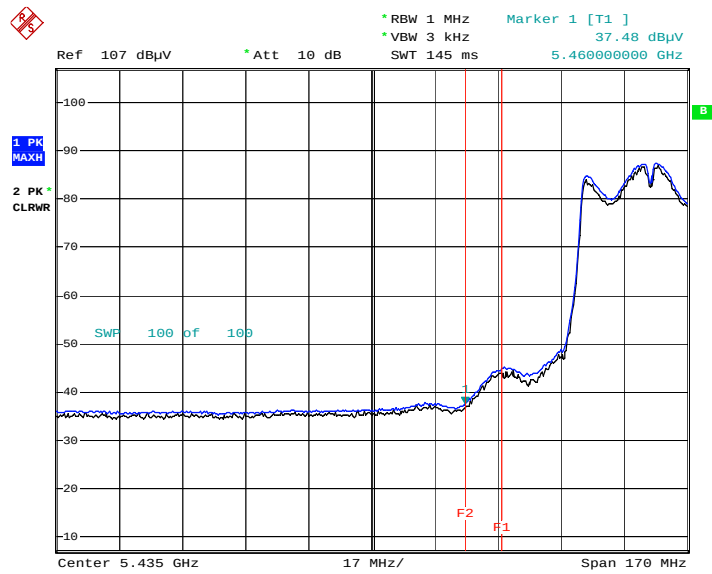
Date: 8.NOV.2018 09:57:29

Peak Reading (802.11ac_VHT20, Ch.100, H)



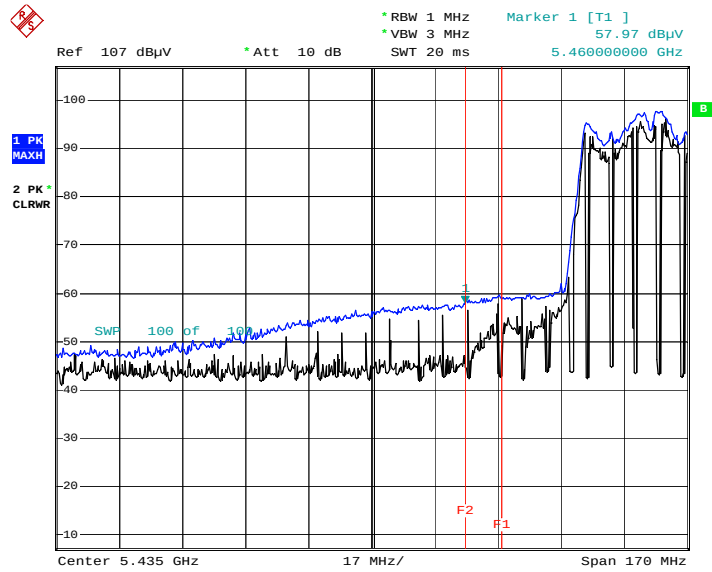
Date: 8.NOV.2018 09:59:52

Average Reading (802.11n_HT40, Ch.102, H)



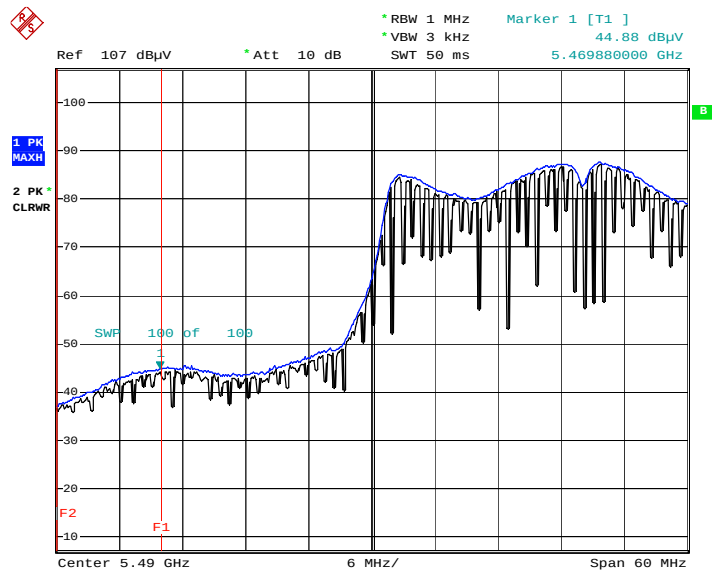
Date: 8.NOV.2018 10:06:49

Peak Reading (802.11n_HT40, Ch.102, H)



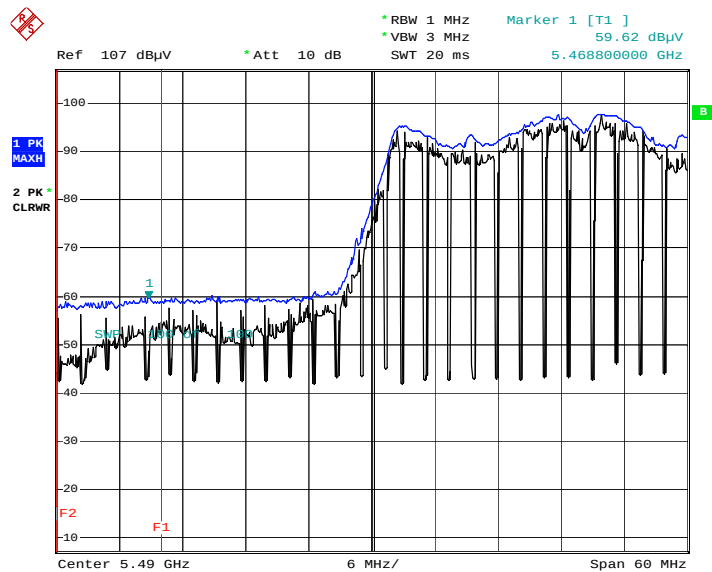
Date: 8.NOV.2018 10:05:40

Average Reading (802.11n_HT40, Ch.102, H)



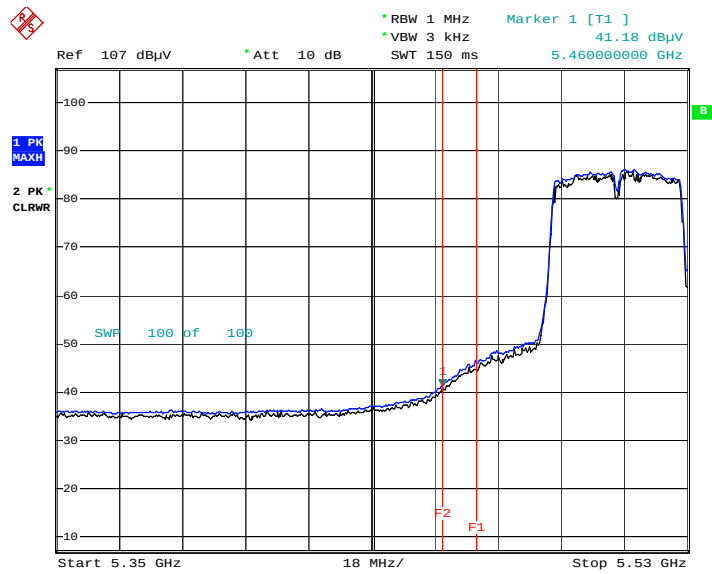
Date: 8.NOV.2018 10:03:18

Peak Reading (802.11n_HT40, Ch.102, H)



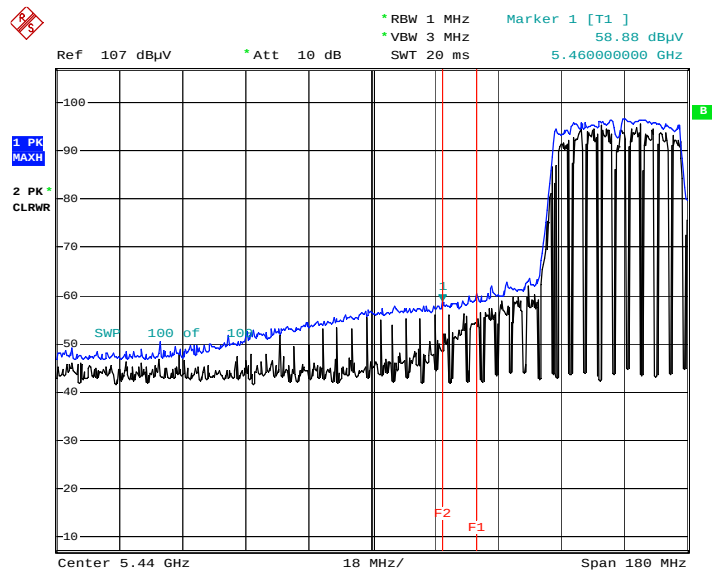
Date: 8.NOV.2018 10:04:48

Average Reading (802.11ac_VHT40, Ch.102, H)



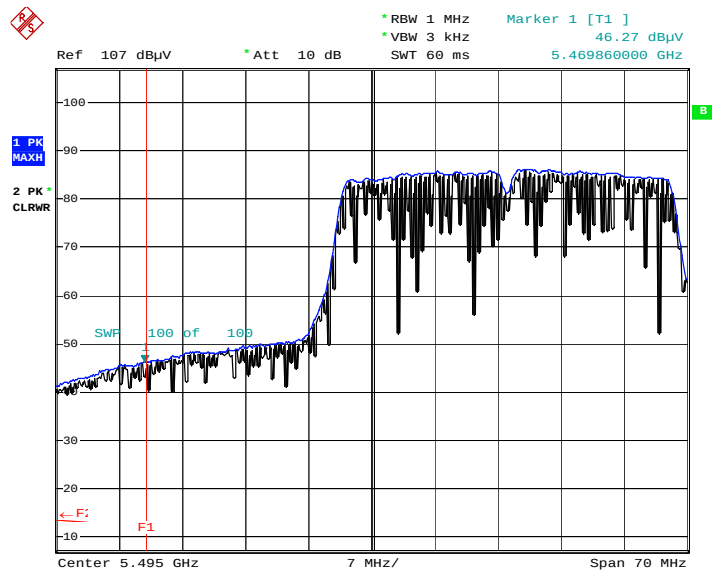
Date: 8.NOV.2018 08:53:29

Peak Reading (802.11ac_VHT40, Ch.102, H)



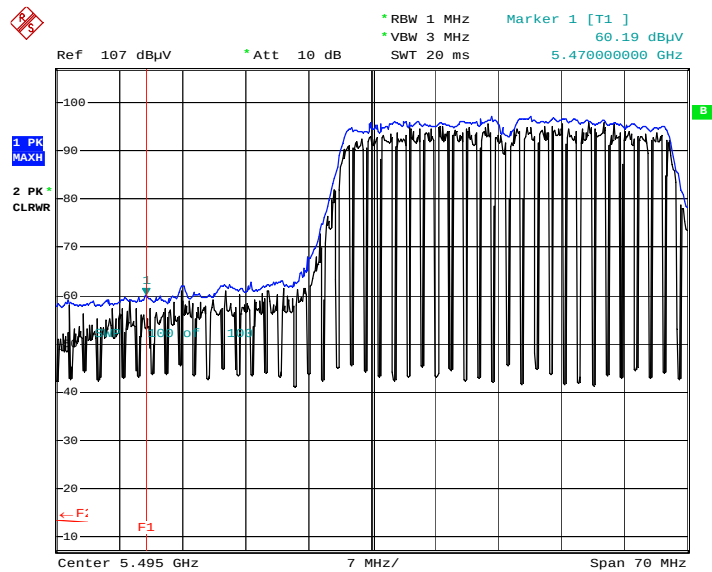
Date: 8.NOV.2018 08:54:11

Average Reading (802.11ac_VHT40, Ch.102, H)



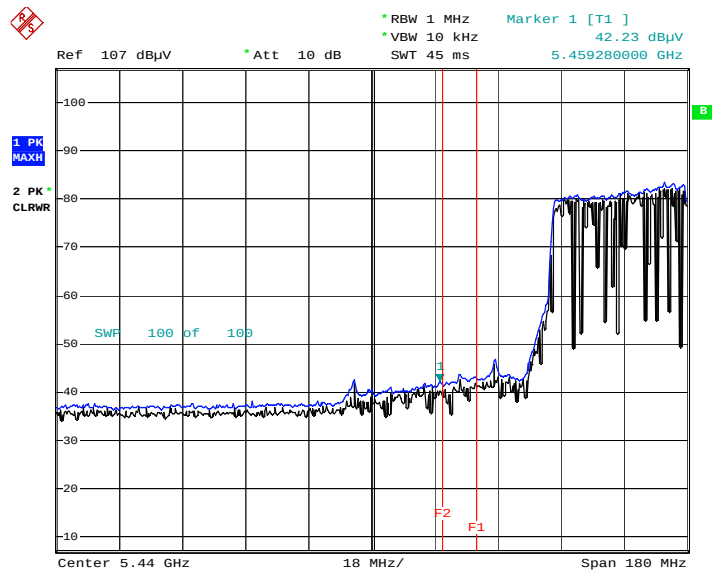
Date: 8.NOV.2018 08:50:43

Peak Reading (802.11ac_VHT40, Ch.102, H)



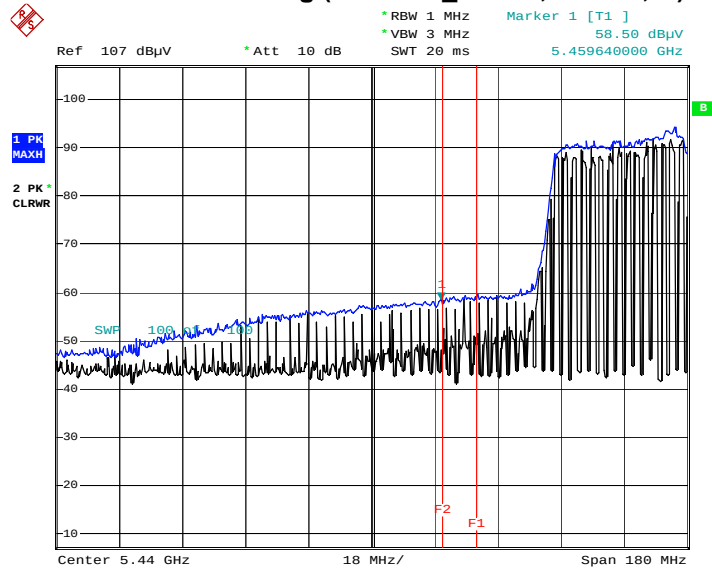
Date: 8.NOV.2018 08:51:46

Average Reading (802.11ac_VHT80, Ch.106, H)



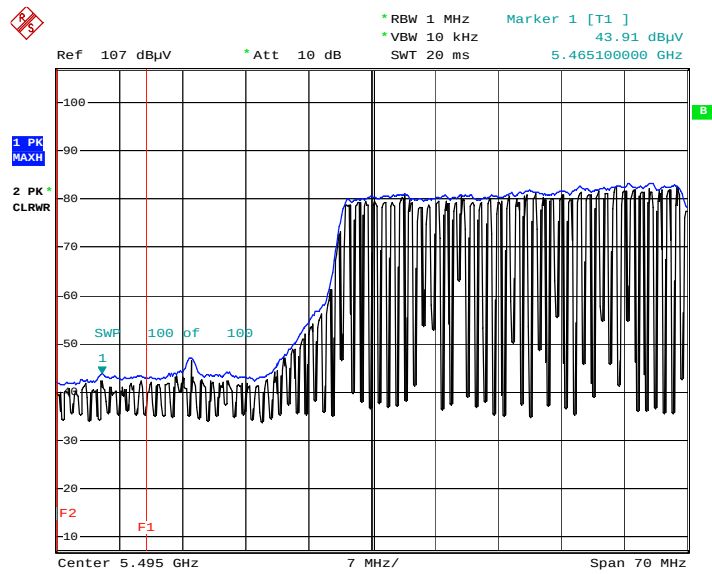
Date: 8.NOV.2018 09:27:28

Peak Reading (802.11ac_VHT80, Ch.106, H)



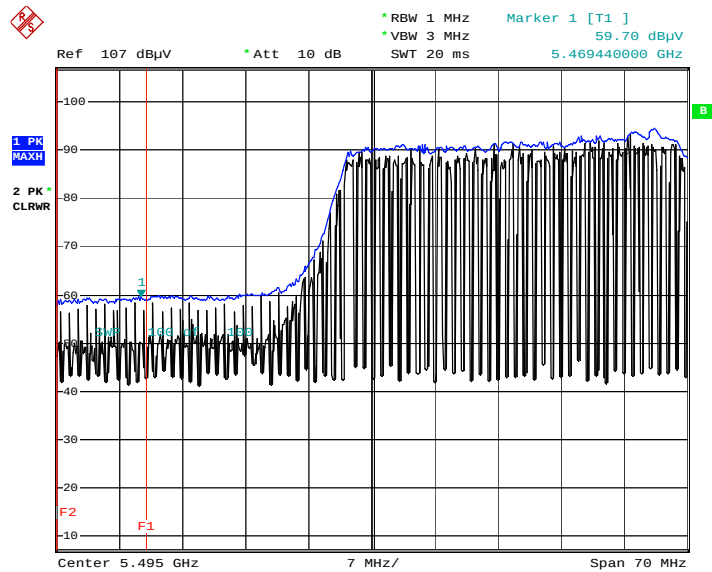
Date: 8.NOV.2018 09:26:19

Average Reading (802.11ac_VHT80, Ch.106, H)



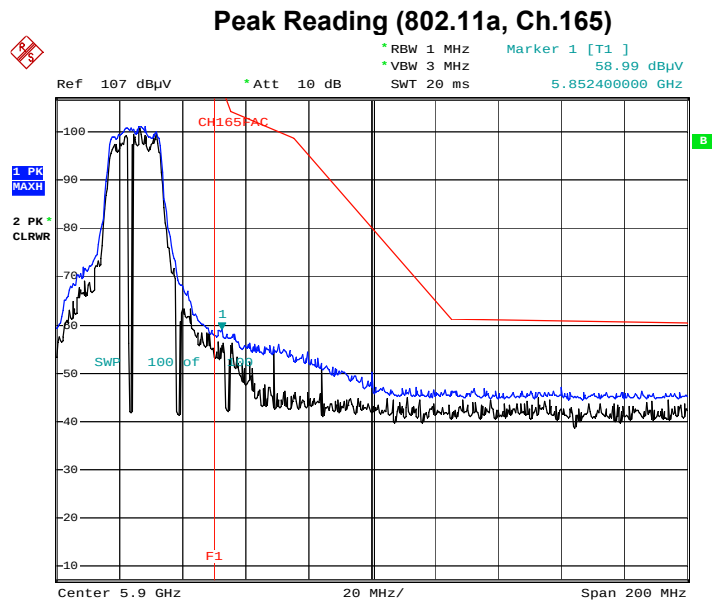
Date: 8.NOV.2018 09:24:23

Peak Reading (802.11ac_VHT80, Ch.106, H)

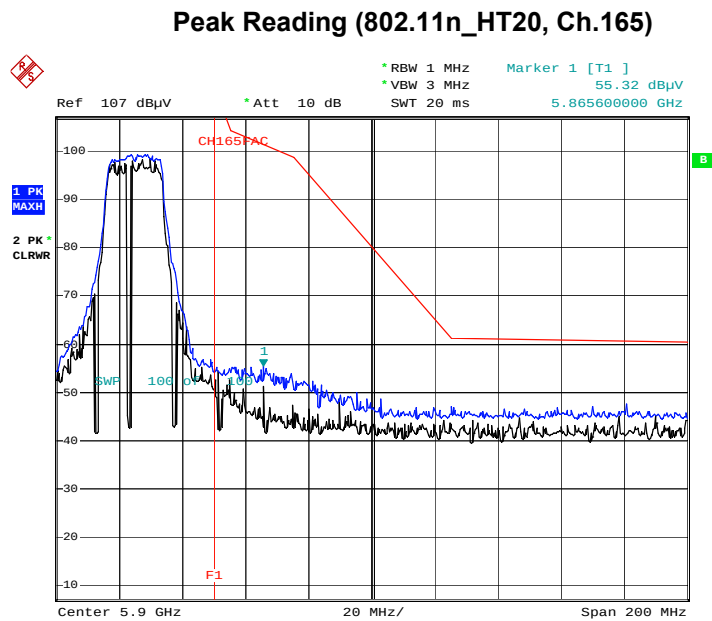


Date: 8.NOV.2018 09:25:33

■ Test Plots(UNII 3)

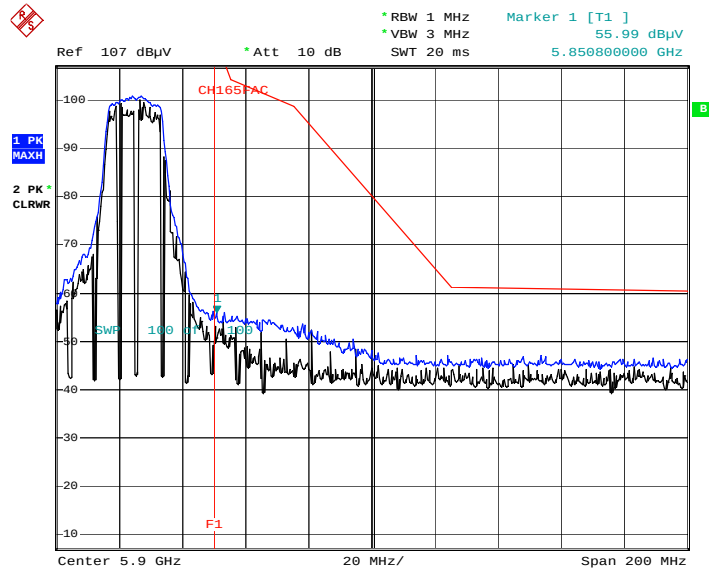


Date: 8.NOV.2018 11:04:03



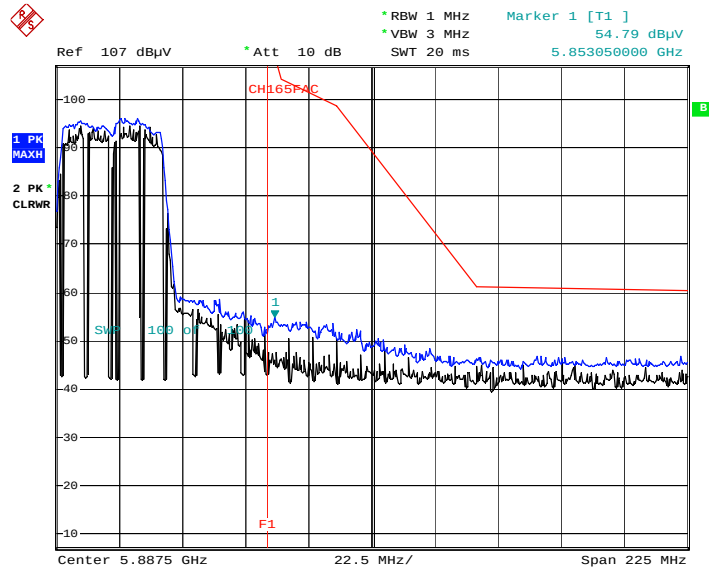
Date: 8.NOV.2018 11:05:50

Peak Reading (802.11ac_VHT20, Ch.165)



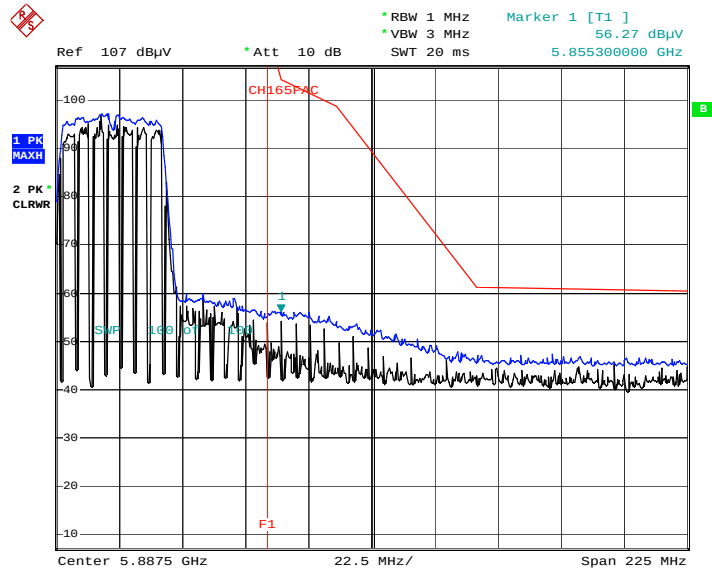
Date: 8.NOV.2018 11:06:59

Peak Reading (802.11n_HT40, Ch.159)



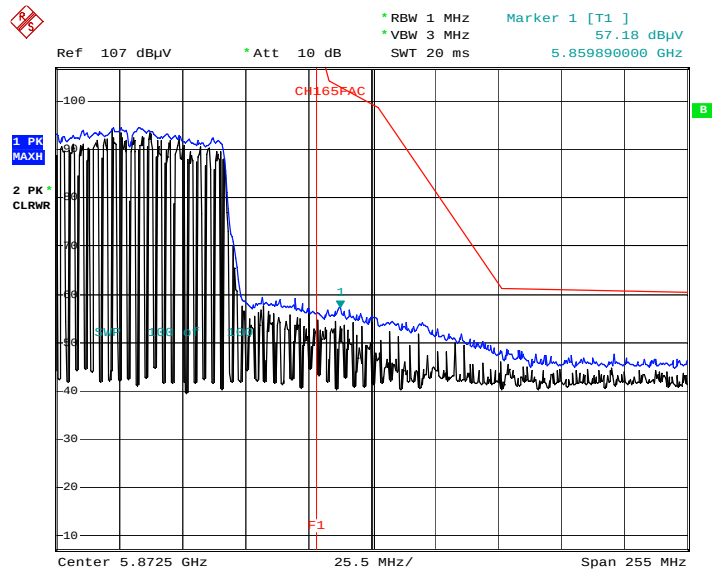
Date: 8.NOV.2018 11:07:56

Peak Reading (802.11ac_VHT40, Ch.159)



Date: 8.NOV.2018 11:09:24

Peak Reading (802.11ac_VHT80, Ch.155)



Date: 8.NOV.2018 11:11:03

10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

EMI Auto Test(5)

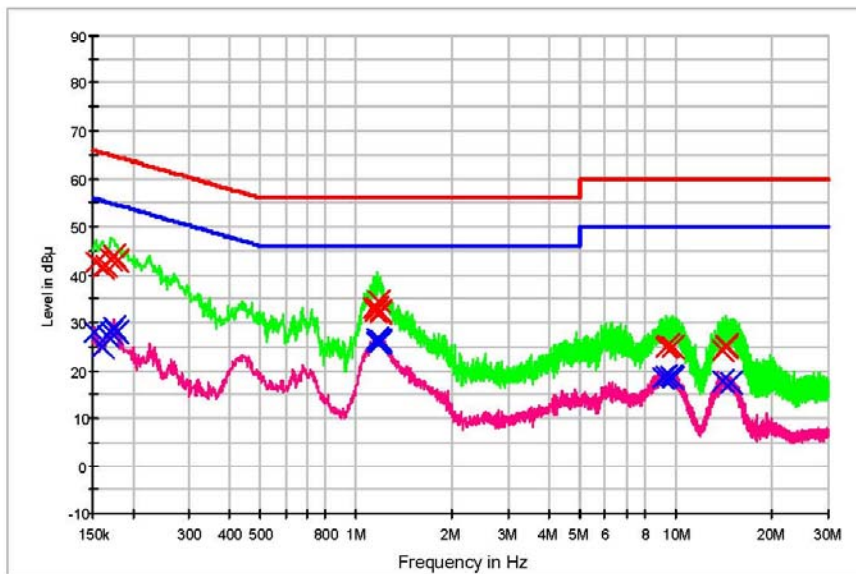
1 / 2

HCT TEST Report

Common Information

EUT: SM-A920N
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN 5G MODE

FCC CLASS B_Exten Cable



— FCC CLASS B_OP — 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 (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	42.4	9.000	Off	N	9.7	23.4	65.8
0.160000	41.6	9.000	Off	N	9.7	23.9	65.5
0.164000	41.7	9.000	Off	N	9.7	23.5	65.3
0.170000	43.1	9.000	Off	N	9.7	21.9	65.0
0.174000	44.0	9.000	Off	N	9.7	20.8	64.8
0.178000	43.0	9.000	Off	N	9.7	21.6	64.6
1.132000	33.0	9.000	Off	N	9.8	23.0	56.0
1.146000	32.4	9.000	Off	N	9.8	23.6	56.0
1.162000	33.1	9.000	Off	N	9.8	22.9	56.0
1.176000	34.5	9.000	Off	N	9.8	21.5	56.0
1.186000	32.1	9.000	Off	N	9.8	23.9	56.0
1.192000	32.3	9.000	Off	N	9.8	23.8	56.0
9.314000	24.8	9.000	Off	N	10.2	35.2	60.0
9.462000	25.3	9.000	Off	N	10.2	34.7	60.0
9.760000	25.0	9.000	Off	N	10.2	35.0	60.0
14.018000	24.4	9.000	Off	N	10.4	35.6	60.0
14.292000	25.0	9.000	Off	N	10.4	35.0	60.0
14.344000	25.1	9.000	Off	N	10.4	34.9	60.0

2018-11-08

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EMI Auto Test(5)

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.152000	28.0	9.000	Off	N	9.7	27.9	55.9
0.160000	24.9	9.000	Off	N	9.7	30.6	55.5
0.166000	27.2	9.000	Off	N	9.7	28.0	55.2
0.170000	28.1	9.000	Off	N	9.7	26.8	55.0
0.174000	28.9	9.000	Off	N	9.7	25.9	54.8
0.178000	27.9	9.000	Off	N	9.7	26.7	54.6
1.156000	26.0	9.000	Off	N	9.8	20.0	46.0
1.166000	26.6	9.000	Off	N	9.8	19.4	46.0
1.174000	26.4	9.000	Off	N	9.8	19.6	46.0
1.178000	25.8	9.000	Off	N	9.8	20.2	46.0
1.188000	26.1	9.000	Off	N	9.8	19.9	46.0
1.194000	25.9	9.000	Off	N	9.8	20.1	46.0
9.052000	18.5	9.000	Off	N	10.2	31.5	50.0
9.314000	19.0	9.000	Off	N	10.2	31.0	50.0
9.618000	18.7	9.000	Off	N	10.2	31.3	50.0
9.760000	18.5	9.000	Off	N	10.2	31.5	50.0
14.016000	17.8	9.000	Off	N	10.4	32.2	50.0
14.906000	17.4	9.000	Off	N	10.5	32.6	50.0

2018-11-08

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Conducted Emissions (Line 2)

EMI Auto Test(5)

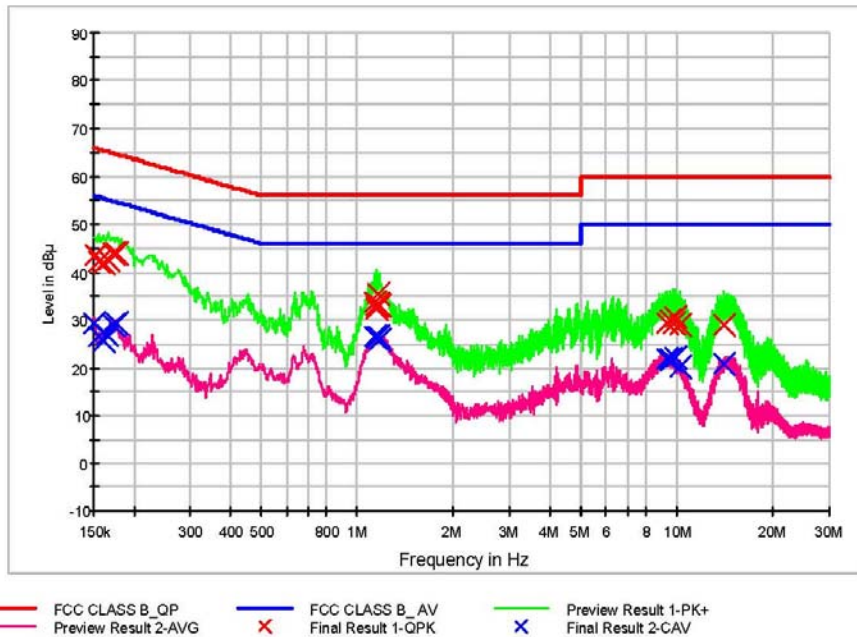
1 / 2

HCT TEST Report

Common Information

EUT: SM-A920N
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN 5G MODE

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	43.6	9.000	Off	L1	9.7	22.2	65.9
0.156000	42.2	9.000	Off	L1	9.7	23.5	65.7
0.160000	41.9	9.000	Off	L1	9.7	23.6	65.5
0.166000	42.7	9.000	Off	L1	9.7	22.5	65.2
0.172000	44.0	9.000	Off	L1	9.7	20.8	64.9
0.176000	44.0	9.000	Off	L1	9.7	20.6	64.7
1.136000	33.8	9.000	Off	L1	9.8	22.2	56.0
1.144000	32.5	9.000	Off	L1	9.8	23.5	56.0
1.152000	33.1	9.000	Off	L1	9.8	22.9	56.0
1.156000	33.3	9.000	Off	L1	9.8	22.7	56.0
1.166000	35.3	9.000	Off	L1	9.8	20.7	56.0
1.178000	33.1	9.000	Off	L1	9.8	22.9	56.0
9.312000	29.5	9.000	Off	L1	10.1	30.5	60.0
9.524000	29.9	9.000	Off	L1	10.2	30.1	60.0
9.812000	29.3	9.000	Off	L1	10.2	30.7	60.0
9.824000	30.6	9.000	Off	L1	10.2	29.4	60.0
10.234000	29.0	9.000	Off	L1	10.2	31.0	60.0
14.092000	29.0	9.000	Off	L1	10.3	31.0	60.0

2018-11-08

오후 7:59:07

EMI Auto Test(5)

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	29.4	9.000	Off	L1	9.7	26.6	56.0
0.156000	26.5	9.000	Off	L1	9.7	29.1	55.7
0.160000	25.7	9.000	Off	L1	9.7	29.7	55.5
0.164000	26.8	9.000	Off	L1	9.7	28.4	55.3
0.172000	28.9	9.000	Off	L1	9.7	26.0	54.9
0.176000	29.2	9.000	Off	L1	9.7	25.5	54.7
1.136000	26.6	9.000	Off	L1	9.8	19.4	46.0
1.144000	26.2	9.000	Off	L1	9.8	19.8	46.0
1.148000	26.3	9.000	Off	L1	9.8	19.7	46.0
1.154000	26.2	9.000	Off	L1	9.8	19.8	46.0
1.166000	26.7	9.000	Off	L1	9.8	19.3	46.0
1.180000	25.9	9.000	Off	L1	9.8	20.2	46.0
9.332000	21.9	9.000	Off	L1	10.1	28.1	50.0
9.524000	21.9	9.000	Off	L1	10.2	28.1	50.0
9.542000	21.4	9.000	Off	L1	10.2	28.6	50.0
9.824000	22.1	9.000	Off	L1	10.2	28.0	50.0
10.234000	20.3	9.000	Off	L1	10.2	29.7	50.0
14.092000	20.9	9.000	Off	L1	10.3	29.1	50.0

2018-11-08

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11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/20/2017	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/27/2018	Annual	100033
ESPAC	SU-642 / Temperature Chamber	03/30/2018	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY52090906
Agilent	N1911A / Power Meter	04/16/2018	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/16/2018	Annual	MY52260025
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
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	04/19/2017	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	04/06/2017	Biennial	760
Schwarzbeck	VULB 9160 / TRILOG Antenna	08/09/2018	Biennial	9160-3368
Schwarzbeck	BBHA 9120D / Horn Antenna	05/02/2017	Biennial	9120D-937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/03/2018	Annual	100688
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/28/2018	Annual	101068-SZ
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	06/07/2018	Annual	8
Wainwright Instruments	WHKX7.0/18G-8SS / High Pass Filter	05/09/2018	Annual	29
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	01/03/2018	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/07/2018	Annual	1
Agilent	8493C-10 / Attenuator(10 dB)	07/17/2018	Annual	08285
CERNEX	CBLU1183540 / Power Amplifier	07/10/2018	Annual	22964
CERNEX	CBL06185030 / Power Amplifier	07/10/2018	Annual	22965
CERNEX	CBL18265035 / Power Amplifier	01/10/2018	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/27/2018	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-1811-FC029-P
2	HCT-RF-1811-FC030-P
3	HCT-RF-1811-FC031-P
4	HCT-RF-1811-FC032-P
5	HCT-RF-1811-FC033-P
6	HCT-RF-1811-FC034-P
7	HCT-RF-1811-FC035-P