

802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

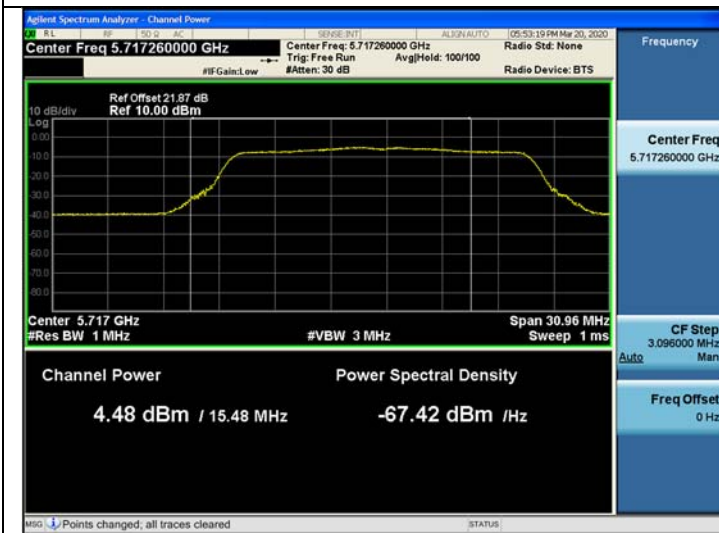
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	4.48	0.405	4.89	22.90
802.11n(HT20)			4.32	1.501	5.82	22.91
802.11ac(VHT20)			4.25	0.614	4.86	22.93
802.11a	5720 (UNII 3 Band)	144	-2.76	0.405	-2.36	30.00
802.11n(HT20)			-2.31	1.501	-0.81	30.00
802.11ac(VHT20)			-2.44	0.614	-1.83	30.00

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	1.90	2.538	4.44	23.98
802.11ac(VHT40)			1.67	2.788	4.46	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-9.36	2.538	-6.82	30.00
802.11ac(VHT40)			-9.59	2.788	-6.80	30.00

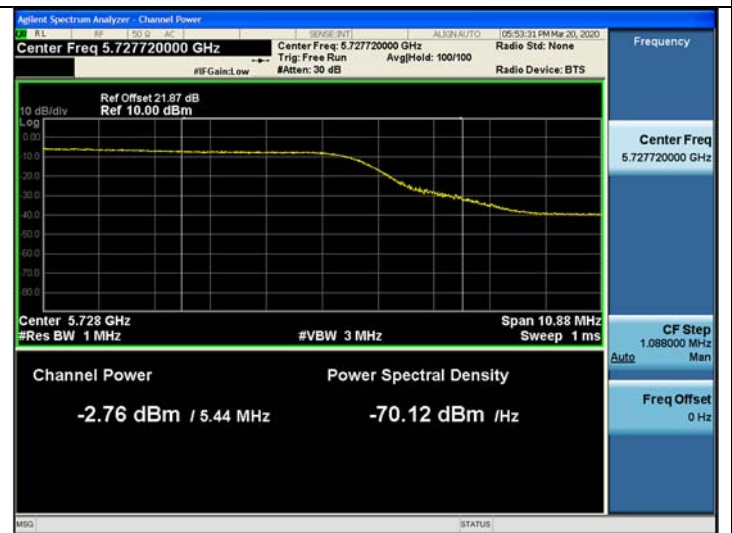
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	0.53	3.349	3.88	23.98
	5690 (UNII 3 Band)	138	-12.57	3.349	-9.22	30.00

Test Plots

802.11a UNII 2C Band



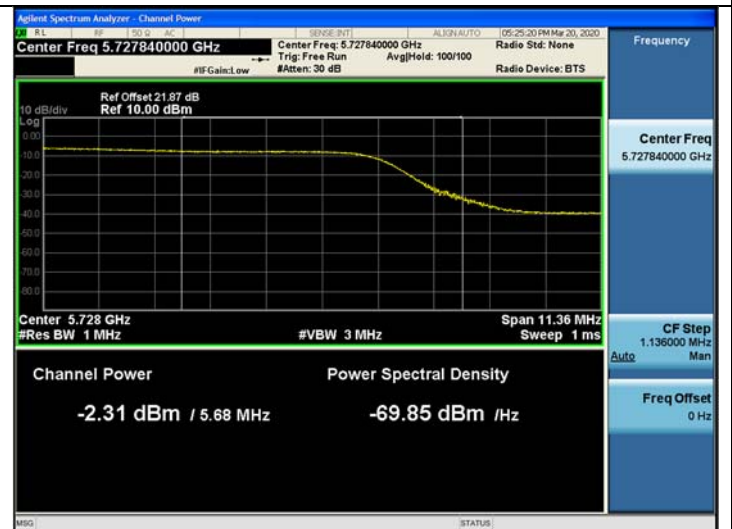
802.11a UNII 3 Band



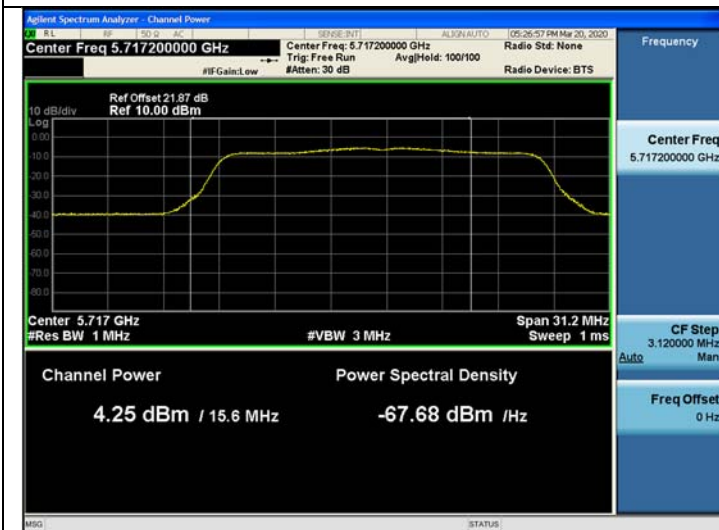
802.11n(HT20) UNII 2C Band



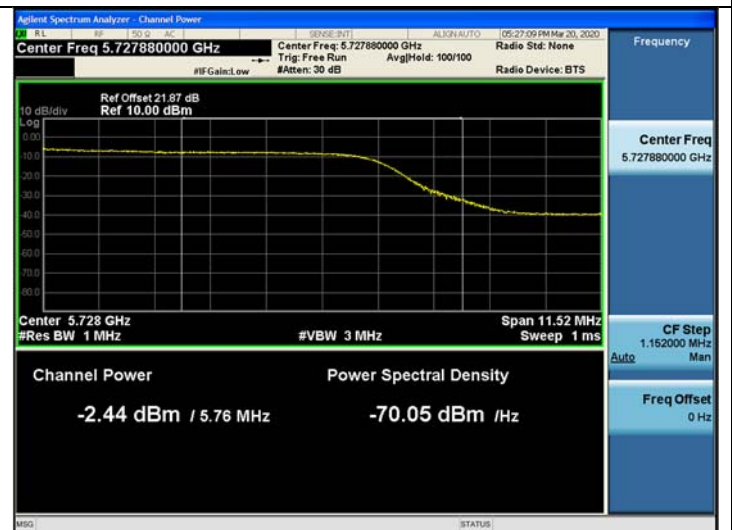
802.11n(HT20) UNII 3 Band



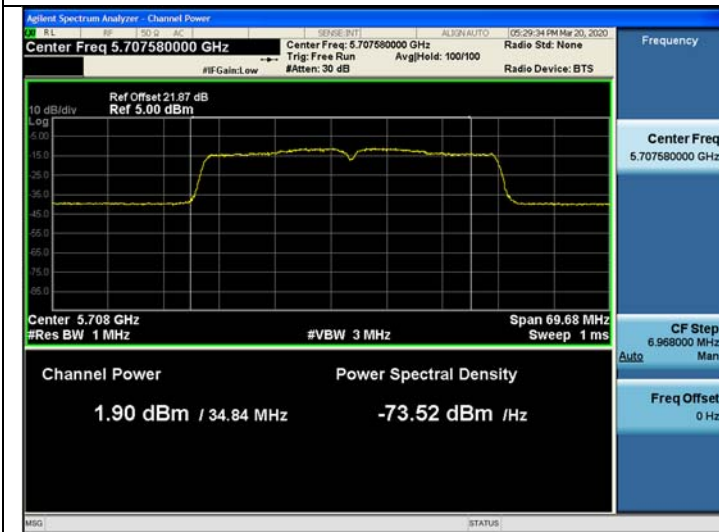
802.11ac(VHT20) UNII 2C Band



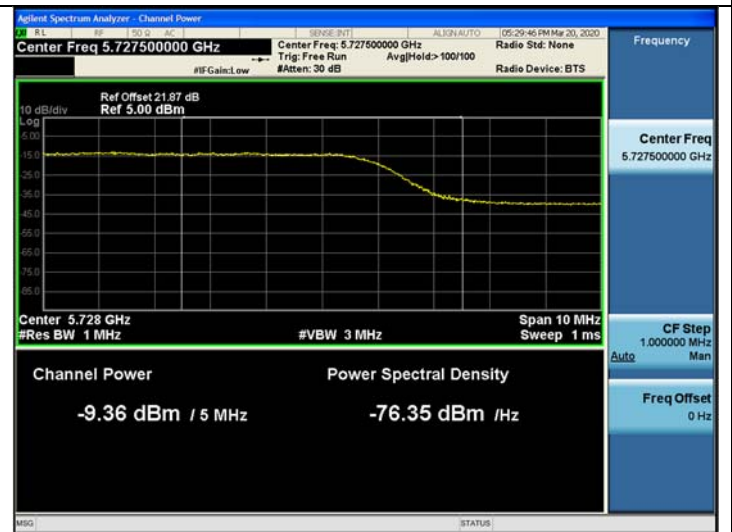
802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



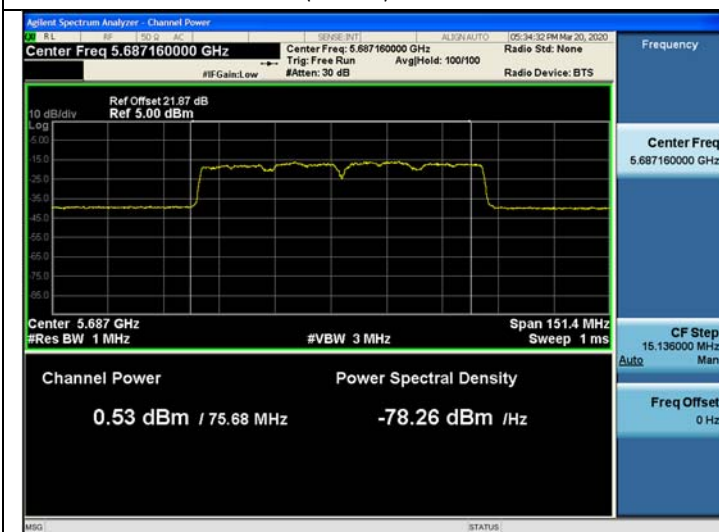
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	-4.793	0.405	-4.388	11.00
802.11n(HT20)			-5.108	1.501	-3.607	11.00
802.11ac(VHT20)			-5.404	0.614	-4.790	11.00
802.11a	5720 (UNII 3 Band)	144	-10.083	0.405	-9.678	30.00
802.11n(HT20)			-10.354	1.501	-8.853	30.00
802.11ac(VHT20)			-10.534	0.614	-9.920	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	-10.885	2.538	-8.347	11.00
802.11ac(VHT40)			-10.850	2.788	-8.062	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-15.686	2.538	-13.148	30.00
802.11ac(VHT40)			-16.006	2.788	-13.218	30.00

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-15.402	3.349	-12.053	11.00
	5690 (UNII 3 Band)	138	-19.541	3.349	-16.192	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



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 = $40 \log (\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	46.88	4.71	V	51.59	68.20	16.61	PK
15540	51.87	5.57	V	57.44	73.98	16.54	PK
15540	33.33	5.57	V	38.90	53.98	15.08	AV
10360	47.34	4.71	H	52.05	68.20	16.15	PK
15540	52.54	5.57	H	58.11	73.98	15.87	PK
15540	33.37	5.57	H	38.94	53.98	15.04	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	47.27	4.43	V	51.70	68.20	16.50	PK
15600	48.63	4.77	V	53.40	73.98	20.58	PK
15600	32.47	4.77	V	37.24	53.98	16.74	AV
10400	47.92	4.43	H	52.35	68.20	15.85	PK
15600	49.21	4.77	H	53.98	73.98	20.00	PK
15600	32.83	4.77	H	37.60	53.98	16.38	AV

Band : UNII 1

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5240 MHz

Channel No. 48 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	46.35	4.84	V	51.19	68.20	17.01	PK
15720	48.99	3.99	V	52.98	73.98	21.00	PK
15720	32.52	3.99	V	36.51	53.98	17.47	AV
10480	46.59	4.84	H	51.43	68.20	16.77	PK
15720	49.36	3.99	H	53.35	73.98	20.63	PK
15720	32.57	3.99	H	36.56	53.98	17.42	AV

Band : UNII 2A

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5260 MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	47.20	4.58	V	51.78	68.20	16.42	PK
15780	48.43	4.55	V	52.98	73.98	21.00	PK
15780	32.37	4.55	V	36.92	53.98	17.06	AV
10520	47.17	4.58	H	51.75	68.20	16.45	PK
15780	49.27	4.55	H	53.82	73.98	20.16	PK
15780	32.34	4.55	H	36.89	53.98	17.09	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	47.05	4.79	V	51.84	73.98	22.14	PK
10600	34.56	4.79	V	39.35	53.98	14.63	AV
15900	48.20	5.29	V	53.49	73.98	20.49	PK
15900	32.02	5.29	V	37.31	53.98	16.67	AV
10600	46.79	4.79	H	51.58	73.98	22.40	PK
10600	34.12	4.79	H	38.91	53.98	15.07	AV
15900	47.51	5.29	H	52.80	73.98	21.18	PK
15900	31.07	5.29	H	36.36	53.98	17.62	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 G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	46.81	4.82	V	51.63	73.98	22.35	PK
10640	34.46	4.82	V	39.28	53.98	14.70	AV
15960	47.41	4.71	V	52.12	73.98	21.86	PK
15960	32.47	4.71	V	37.18	53.98	16.80	AV
10640	46.11	4.82	H	50.93	73.98	23.05	PK
10640	34.27	4.82	H	39.09	53.98	14.89	AV
15960	47.34	4.71	H	52.05	73.98	21.93	PK
15960	32.42	4.71	H	37.13	53.98	16.85	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 G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	46.72	4.61	V	51.33	73.98	22.65	PK
11000	34.81	4.61	V	39.42	53.98	14.56	AV
16500	45.17	7.08	V	52.25	68.20	15.95	PK
11000	46.34	4.61	H	50.95	73.98	23.03	PK
11000	34.28	4.61	H	38.89	53.98	15.09	AV
16500	44.97	7.08	H	52.05	68.20	16.15	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5580 MHz

Channel No. 116 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	46.78	4.37	V	51.15	73.98	22.83	PK
11160	35.60	4.37	V	39.97	53.98	14.01	AV
16740	44.44	8.84	V	53.28	68.20	14.92	PK
11160	46.06	4.37	H	50.43	73.98	23.55	PK
11160	34.78	4.37	H	39.15	53.98	14.83	AV
16740	43.78	8.84	H	52.62	68.20	15.58	PK

Band : UNII 2C

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5720 MHz

Channel No. 144 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	47.42	4.60	V	52.02	73.98	21.96	PK
11440	34.95	4.60	V	39.55	53.98	14.43	AV
17160	45.38	9.39	V	54.77	68.20	13.43	PK
11440	47.17	4.60	H	51.77	73.98	22.21	PK
11440	34.28	4.60	H	38.88	53.98	15.10	AV
17160	48.98	9.39	H	58.37	68.20	9.83	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5745MHz

Channel No. 149 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	47.99	4.40	V	52.39	73.98	21.59	PK
11490	35.52	4.40	V	39.92	53.98	14.06	AV
17235	45.07	10.06	V	55.13	68.20	13.07	PK
11490	47.31	4.40	H	51.71	73.98	22.27	PK
11490	34.77	4.40	H	39.17	53.98	14.81	AV
17235	45.02	10.06	H	55.08	68.20	13.12	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	45.64	5.13	V	50.77	73.98	23.21	PK
11570	32.72	5.13	V	37.85	53.98	16.13	AV
17355	45.09	10.65	V	55.74	68.20	12.46	PK
11570	44.29	5.13	H	49.42	73.98	24.56	PK
11570	32.14	5.13	H	37.27	53.98	16.71	AV
17355	44.89	10.65	H	55.54	68.20	12.66	PK

Band : UNII 3

Operation Mode: 802.11 a

Transfer Rate: 6 Mbps

Operating Frequency 5825 MHz

Channel No. 165 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	47.54	4.40	V	51.94	73.98	22.04	PK
11650	35.15	4.40	V	39.55	53.98	14.43	AV
17475	46.65	10.73	V	57.38	68.20	10.82	PK
11650	47.52	4.40	H	51.92	73.98	22.06	PK
11650	34.69	4.40	H	39.09	53.98	14.89	AV
17475	46.28	10.73	H	57.01	68.20	11.19	PK

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	47.39	4.71	V	52.10	68.20	16.10	PK
15540	52.68	5.57	V	58.25	73.98	15.73	PK
15540	33.44	5.57	V	39.01	53.98	14.97	AV
10360	47.42	4.71	H	52.13	68.20	16.07	PK
15540	54.96	5.57	H	60.53	73.98	13.45	PK
15540	33.48	5.57	H	39.05	53.98	14.93	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	46.28	4.43	V	50.71	68.20	17.49	PK
15600	51.68	4.77	V	56.45	73.98	17.53	PK
15600	32.87	4.77	V	37.64	53.98	16.34	AV
10400	46.88	4.43	H	51.31	68.20	16.89	PK
15600	54.33	4.77	H	59.10	73.98	14.88	PK
15600	33.22	4.77	H	37.99	53.98	15.99	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	47.00	4.84	V	51.84	68.20	16.36	PK
15720	48.97	3.99	V	52.96	73.98	21.02	PK
15720	32.11	3.99	V	36.10	53.98	17.88	AV
10480	47.03	4.84	H	51.87	68.20	16.33	PK
15720	49.17	3.99	H	53.16	73.98	20.82	PK
15720	32.21	3.99	H	36.20	53.98	17.78	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	46.48	4.58	V	51.06	68.20	17.14	PK
15780	49.84	4.55	V	54.39	73.98	19.59	PK
15780	32.33	4.55	V	36.88	53.98	17.10	AV
10520	46.45	4.58	H	51.03	68.20	17.17	PK
15780	49.28	4.55	H	53.83	73.98	20.15	PK
15780	32.25	4.55	H	36.80	53.98	17.18	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	47.58	4.79	V	52.37	73.98	21.61	PK
10600	35.68	4.79	V	40.47	53.98	13.51	AV
15900	46.10	5.29	V	51.39	73.98	22.59	PK
15900	31.64	5.29	V	36.93	53.98	17.05	AV
10600	46.93	4.79	H	51.72	73.98	22.26	PK
10600	35.62	4.79	H	40.41	53.98	13.57	AV
15900	45.89	5.29	H	51.18	73.98	22.80	PK
15900	31.24	5.29	H	36.53	53.98	17.45	AV

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	47.35	4.82	V	52.17	73.98	21.81	PK
10640	34.29	4.82	V	39.11	53.98	14.87	AV
15960	47.54	4.71	V	52.25	73.98	21.73	PK
15960	32.22	4.71	V	36.93	53.98	17.05	AV
10640	47.27	4.82	H	52.09	73.98	21.89	PK
10640	34.24	4.82	H	39.06	53.98	14.92	AV
15960	47.26	4.71	H	51.97	73.98	22.01	PK
15960	32.18	4.71	H	36.89	53.98	17.09	AV

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	47.37	4.61	V	51.98	73.98	22.00	PK
11000	35.06	4.61	V	39.67	53.98	14.31	AV
16500	44.90	7.08	V	51.98	68.20	16.22	PK
11000	47.21	4.61	H	51.82	73.98	22.16	PK
11000	35.01	4.61	H	39.62	53.98	14.36	AV
16500	44.57	7.08	H	51.65	68.20	16.55	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT20)

Transfer MCS Index: MCS0

Operating Frequency 5580 MHz

Channel No. 116 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	46.74	4.37	V	51.11	73.98	22.87	PK
11160	35.56	4.37	V	39.93	53.98	14.05	AV
16740	44.46	8.84	V	53.30	68.20	14.90	PK
11160	46.12	4.37	H	50.49	73.98	23.49	PK
11160	35.23	4.37	H	39.60	53.98	14.38	AV
16740	43.98	8.84	H	52.82	68.20	15.38	PK

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	47.07	4.60	V	51.67	73.98	22.31	PK
11440	34.94	4.60	V	39.54	53.98	14.44	AV
17160	45.59	9.39	V	54.98	68.20	13.22	PK
11440	47.00	4.60	H	51.60	73.98	22.38	PK
11440	34.91	4.60	H	39.51	53.98	14.47	AV
17160	50.66	9.39	H	60.05	68.20	8.15	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	47.00	4.40	V	51.40	73.98	22.58	PK
11490	33.79	4.40	V	38.19	53.98	15.79	AV
17235	45.22	10.06	V	55.28	68.20	12.92	PK
11490	46.99	4.40	H	51.39	73.98	22.59	PK
11490	33.75	4.40	H	38.15	53.98	15.83	AV
17235	45.31	10.06	H	55.37	68.20	12.83	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	46.48	5.13	V	51.61	73.98	22.37	PK
11570	33.50	5.13	V	38.63	53.98	15.35	AV
17355	45.35	10.65	V	56.00	68.20	12.20	PK
11570	46.31	5.13	H	51.44	73.98	22.54	PK
11570	33.47	5.13	H	38.60	53.98	15.38	AV
17355	45.33	10.65	H	55.98	68.20	12.22	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	46.50	4.40	V	50.90	73.98	23.08	PK
11650	35.09	4.40	V	39.49	53.98	14.49	AV
17475	46.77	10.73	V	57.50	68.20	10.70	PK
11650	46.27	4.40	H	50.67	73.98	23.31	PK
11650	35.07	4.40	H	39.47	53.98	14.51	AV
17475	46.62	10.73	H	57.35	68.20	10.85	PK

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	47.54	4.71	V	52.25	68.20	15.95	PK
15540	53.07	5.57	V	58.64	73.98	15.34	PK
15540	32.23	5.57	V	37.80	53.98	16.18	AV
10360	48.08	4.71	H	52.79	68.20	15.41	PK
15540	54.49	5.57	H	60.06	73.98	13.92	PK
15540	33.01	5.57	H	38.58	53.98	15.40	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10400	48.87	4.43	V	53.30	68.20	14.90	PK
15600	55.29	4.77	V	60.06	73.98	13.92	PK
15600	33.95	4.77	V	38.72	53.98	15.26	AV
10400	48.93	4.43	H	53.36	68.20	14.84	PK
15600	56.96	4.77	H	61.73	73.98	12.25	PK
15600	34.60	4.77	H	39.37	53.98	14.61	AV

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	47.69	4.84	V	52.53	68.20	15.67	PK
15720	50.39	3.99	V	54.38	73.98	19.60	PK
15720	32.98	3.99	V	36.97	53.98	17.01	AV
10480	48.29	4.84	H	53.13	68.20	15.07	PK
15720	51.94	3.99	H	55.93	73.98	18.05	PK
15720	33.81	3.99	H	37.80	53.98	16.18	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5260MHz

Channel No. 52 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	49.00	4.58	V	53.58	68.20	14.62	PK
15780	53.31	4.55	V	57.86	73.98	16.12	PK
15780	33.62	4.55	V	38.17	53.98	15.81	AV
10520	48.28	4.58	H	52.86	68.20	15.34	PK
15780	52.14	4.55	H	56.69	73.98	17.29	PK
15780	33.28	4.55	H	37.83	53.98	16.15	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10600	48.72	4.79	V	53.51	73.98	20.47	PK
10600	37.06	4.79	V	41.85	53.98	12.13	AV
15900	50.56	5.29	V	55.85	73.98	18.13	PK
15900	33.38	5.29	V	38.67	53.98	15.31	AV
10600	47.96	4.79	H	52.75	73.98	21.23	PK
10600	36.48	4.79	H	41.27	53.98	12.71	AV
15900	49.55	5.29	H	54.84	73.98	19.14	PK
15900	33.21	5.29	H	38.50	53.98	15.48	AV

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	48.92	4.82	V	53.74	73.98	20.24	PK
10640	35.95	4.82	V	40.77	53.98	13.21	AV
15960	50.40	4.71	V	55.11	73.98	18.87	PK
15960	33.81	4.71	V	38.52	53.98	15.46	AV
10640	48.29	4.82	H	53.11	73.98	20.87	PK
10640	34.74	4.82	H	39.56	53.98	14.42	AV
15960	48.98	4.71	H	53.69	73.98	20.29	PK
15960	33.42	4.71	H	38.13	53.98	15.85	AV

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	47.90	4.61	V	52.51	73.98	21.47	PK
11000	36.39	4.61	V	41.00	53.98	12.98	AV
16500	46.02	7.08	V	53.10	68.20	15.10	PK
11000	47.21	4.61	H	51.82	73.98	22.16	PK
11000	36.20	4.61	H	40.81	53.98	13.17	AV
16500	45.91	7.08	H	52.99	68.20	15.21	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5580 MHz

Channel No. 116 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	48.58	4.37	V	52.95	73.98	21.03	PK
11160	37.09	4.37	V	41.46	53.98	12.52	AV
16740	45.82	8.84	V	54.66	68.20	13.54	PK
11160	48.25	4.37	H	52.62	73.98	21.36	PK
11160	36.89	4.37	H	41.26	53.98	12.72	AV
16740	45.64	8.84	H	54.48	68.20	13.72	PK

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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	48.93	4.60	V	53.53	73.98	20.45	PK
11440	36.46	4.60	V	41.06	53.98	12.92	AV
17160	46.39	9.39	V	55.78	68.20	12.42	PK
11440	48.26	4.60	H	52.86	73.98	21.12	PK
11440	36.26	4.60	H	40.86	53.98	13.12	AV
17160	52.46	9.39	H	61.85	68.20	6.35	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	48.46	4.40	V	52.86	73.98	21.12	PK
11490	36.63	4.40	V	41.03	53.98	12.95	AV
17235	46.75	10.06	V	56.81	68.20	11.39	PK
11490	48.22	4.40	H	52.62	73.98	21.36	PK
11490	36.21	4.40	H	40.61	53.98	13.37	AV
17235	47.91	10.06	H	57.97	68.20	10.23	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	47.75	5.13	V	52.88	73.98	21.10	PK
11570	34.06	5.13	V	39.19	53.98	14.79	AV
17355	47.12	10.65	V	57.77	68.20	10.43	PK
11570	46.97	5.13	H	52.10	73.98	21.88	PK
11570	34.03	5.13	H	39.16	53.98	14.82	AV
17355	46.78	10.65	H	57.43	68.20	10.77	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]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	47.96	4.40	V	52.36	73.98	21.62	PK
11650	36.72	4.40	V	41.12	53.98	12.86	AV
17475	47.71	10.73	V	58.44	68.20	9.76	PK
11650	47.59	4.40	H	51.99	73.98	21.99	PK
11650	36.41	4.40	H	40.81	53.98	13.17	AV
17475	47.23	10.73	H	57.96	68.20	10.24	PK

Band : UNII 1
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	48.24	4.71	V	52.95	68.20	15.25	PK
15570	47.01	4.94	V	51.95	73.98	22.03	PK
15570	34.19	4.94	V	39.13	53.98	14.85	AV
10380	48.17	4.71	H	52.88	68.20	15.32	PK
15570	46.87	4.94	H	51.81	73.98	22.17	PK
15570	34.12	4.94	H	39.06	53.98	14.92	AV

Band : UNII 1
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	48.55	4.89	V	53.44	68.20	14.76	PK
15690	47.23	4.13	V	51.36	73.98	22.62	PK
15690	34.13	4.13	V	38.26	53.98	15.72	AV
10460	48.29	4.89	H	53.18	68.20	15.02	PK
15690	47.21	4.13	H	51.34	73.98	22.64	PK
15690	34.11	4.13	H	38.24	53.98	15.74	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5270 MHz

Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	47.89	4.68	V	52.57	68.20	15.63	PK
15810	46.33	5.20	V	51.53	73.98	22.45	PK
15810	33.77	5.20	V	38.97	53.98	15.01	AV
10540	47.25	4.68	H	51.93	68.20	16.27	PK
15810	45.36	5.20	H	50.56	73.98	23.42	PK
15810	33.26	5.20	H	38.46	53.98	15.52	AV

Band : UNII 2A

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5310 MHz

Channel No. 62 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	48.64	5.37	V	54.01	73.98	19.97	PK
10620	34.94	5.37	V	40.31	53.98	13.67	AV
15930	47.37	4.96	V	52.33	73.98	21.65	PK
15930	33.42	4.96	V	38.38	53.98	15.60	AV
10620	47.86	5.37	H	53.23	73.98	20.75	PK
10620	34.66	5.37	H	40.03	53.98	13.95	AV
15930	47.20	4.96	H	52.16	73.98	21.82	PK
15930	33.25	4.96	H	38.21	53.98	15.77	AV

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5510 MHz

Channel No. 102 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	47.91	4.84	V	52.75	73.98	21.23	PK
11020	37.26	4.84	V	42.10	53.98	11.88	AV
16530	46.13	7.31	V	53.44	68.20	14.76	PK
11020	47.02	4.84	H	51.86	73.98	22.12	PK
11020	36.75	4.84	H	41.59	53.98	12.39	AV
16530	46.09	7.31	H	53.40	68.20	14.80	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5550 MHz

Channel No. 110 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	48.54	4.80	V	53.34	73.98	20.64	PK
11100	37.44	4.80	V	42.24	53.98	11.74	AV
16650	46.64	8.45	V	55.09	68.20	13.11	PK
11100	47.66	4.80	H	52.46	73.98	21.52	PK
11100	34.89	4.80	H	39.69	53.98	14.29	AV
16650	46.27	8.45	H	54.72	68.20	13.48	PK

Band : UNII 2C

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5710 MHz

Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	48.21	4.88	V	53.09	73.98	20.89	PK
11420	37.31	4.88	V	42.19	53.98	11.79	AV
17130	46.39	9.05	V	55.44	68.20	12.76	PK
11420	47.94	4.88	H	52.82	73.98	21.16	PK
11420	36.87	4.88	H	41.75	53.98	12.23	AV
17130	48.14	9.05	H	57.19	68.20	11.01	PK

Band : UNII 3

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5755 MHz

Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	47.34	4.41	V	51.75	73.98	22.23	PK
11510	36.55	4.41	V	40.96	53.98	13.02	AV
17265	46.12	10.08	V	56.20	68.20	12.00	PK
11510	47.21	4.41	H	51.62	73.98	22.36	PK
11510	36.42	4.41	H	40.83	53.98	13.15	AV
17265	45.70	10.08	H	55.78	68.20	12.42	PK

Band : UNII 3

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5795 MHz

Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	46.89	4.75	V	51.64	73.98	22.34	PK
11590	35.71	4.75	V	40.46	53.98	13.52	AV
17385	46.90	10.52	V	57.42	68.20	10.78	PK
11590	46.82	4.75	H	51.57	73.98	22.41	PK
11590	35.28	4.75	H	40.03	53.98	13.95	AV
17385	46.23	10.52	H	56.75	68.20	11.45	PK

Band : UNII 1

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5190 MHz

Channel No. 38 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	48.40	4.71	V	53.11	68.20	15.09	PK
15570	47.21	4.94	V	52.15	73.98	21.83	PK
15570	33.87	4.94	V	38.81	53.98	15.17	AV
10380	48.21	4.71	H	52.92	68.20	15.28	PK
15570	47.11	4.94	H	52.05	73.98	21.93	PK
15570	33.56	4.94	H	38.50	53.98	15.48	AV

Band : UNII 1

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5230 MHz

Channel No. 46 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	47.62	4.89	V	52.51	68.20	15.69	PK
15690	46.92	4.13	V	51.05	73.98	22.93	PK
15690	33.91	4.13	V	38.04	53.98	15.94	AV
10460	47.12	4.89	H	52.01	68.20	16.19	PK
15690	46.35	4.13	H	50.48	73.98	23.50	PK
15690	33.19	4.13	H	37.32	53.98	16.66	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5270 MHz

Channel No. 54 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	48.51	4.68	V	53.19	68.20	15.01	PK
15810	47.02	5.20	V	52.22	73.98	21.76	PK
15810	33.74	5.20	V	38.94	53.98	15.04	AV
10540	47.98	4.68	H	52.66	68.20	15.54	PK
15810	46.78	5.20	H	51.98	73.98	22.00	PK
15810	33.27	5.20	H	38.47	53.98	15.51	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5310 MHz

Channel No. 62 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	48.57	5.37	V	53.94	73.98	20.04	PK
10620	35.15	5.37	V	40.52	53.98	13.46	AV
15930	46.93	4.96	V	51.89	73.98	22.09	PK
15930	33.50	4.96	V	38.46	53.98	15.52	AV
10620	48.19	5.37	H	53.56	73.98	20.42	PK
10620	34.29	5.37	H	39.66	53.98	14.32	AV
15930	46.28	4.96	H	51.24	73.98	22.74	PK
15930	32.97	4.96	H	37.93	53.98	16.05	AV

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5510 MHz

Channel No. 102 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	47.97	4.84	V	52.81	73.98	21.17	PK
11020	37.32	4.84	V	42.16	53.98	11.82	AV
16530	46.09	7.31	V	53.40	68.20	14.80	PK
11020	47.26	4.84	H	52.10	73.98	21.88	PK
11020	37.26	4.84	H	42.10	53.98	11.88	AV
16530	46.00	7.31	H	53.31	68.20	14.89	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5550 MHz

Channel No. 110 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	47.58	4.80	V	52.38	73.98	21.60	PK
11100	34.66	4.80	V	39.46	53.98	14.52	AV
16650	46.38	8.45	V	54.83	68.20	13.37	PK
11100	47.13	4.80	H	51.93	73.98	22.05	PK
11100	33.79	4.80	H	38.59	53.98	15.39	AV
16650	46.21	8.45	H	54.66	68.20	13.54	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5710 MHz

Channel No. 142 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	48.47	4.88	V	53.35	73.98	20.63	PK
11420	36.89	4.88	V	41.77	53.98	12.21	AV
17130	46.00	9.05	V	55.05	68.20	13.15	PK
11420	47.86	4.88	H	52.74	73.98	21.24	PK
11420	36.29	4.88	H	41.17	53.98	12.81	AV
17130	48.65	9.05	H	57.70	68.20	10.50	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5755 MHz

Channel No. 151 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	47.51	4.41	V	51.92	73.98	22.06	PK
11510	36.70	4.41	V	41.11	53.98	12.87	AV
17265	46.27	10.08	V	56.35	68.20	11.85	PK
11510	47.21	4.41	H	51.62	73.98	22.36	PK
11510	36.17	4.41	H	40.58	53.98	13.40	AV
17265	46.79	10.08	H	56.87	68.20	11.33	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5795 MHz

Channel No. 159 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	47.35	4.75	V	52.10	73.98	21.88	PK
11590	34.33	4.75	V	39.08	53.98	14.90	AV
17385	46.80	10.52	V	57.32	68.20	10.88	PK
11590	47.19	4.75	H	51.94	73.98	22.04	PK
11590	34.09	4.75	H	38.84	53.98	15.14	AV
17385	46.29	10.52	H	56.81	68.20	11.39	PK

Band : UNII 1

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5210 MHz

Channel No. 42 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	48.36	4.18	V	52.54	68.20	15.66	PK
15630	47.17	4.50	V	51.67	73.98	22.31	PK
15630	35.71	4.50	V	40.21	53.98	13.77	AV
10420	47.89	4.18	H	52.07	68.20	16.13	PK
15630	47.11	4.50	H	51.61	73.98	22.37	PK
15630	35.42	4.50	H	39.92	53.98	14.06	AV

Band : UNII 2A

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5290 MHz

Channel No. 58 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	48.87	4.56	V	53.43	68.20	14.77	PK
15870	47.24	5.89	V	53.13	73.98	20.85	PK
15870	35.25	5.89	V	41.14	53.98	12.84	AV
10580	48.61	4.56	H	53.17	68.20	15.03	PK
15870	47.20	5.89	H	53.09	73.98	20.89	PK
15870	35.14	5.89	H	41.03	53.98	12.95	AV

Band : UNII 2C

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5530 MHz

Channel No. 106 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	47.64	5.10	V	52.74	73.98	21.24	PK
11060	37.83	5.10	V	42.93	53.98	11.05	AV
16590	48.88	7.84	V	56.72	68.20	11.48	PK
11060	47.24	5.10	H	52.34	73.98	21.64	PK
11060	37.31	5.10	H	42.41	53.98	11.57	AV
16590	49.09	7.84	H	56.93	68.20	11.27	PK

Band : UNII 2C

Operation Mode: 802.11 ac(VHT80)

Transfer MCS Index: MCS0

Operating Frequency 5690 MHz

Channel No. 138 Ch

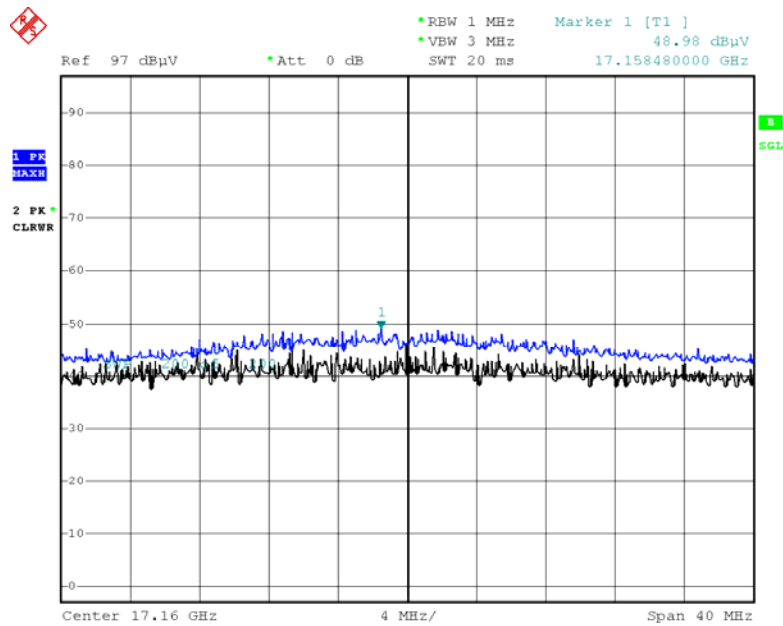
Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	47.17	4.70	V	51.87	73.98	22.11	PK
11380	37.44	4.70	V	42.14	53.98	11.84	AV
17070	46.51	9.53	V	56.04	68.20	12.16	PK
11380	46.79	4.70	H	51.49	73.98	22.49	PK
11380	36.58	4.70	H	41.28	53.98	12.70	AV
17070	46.07	9.53	H	55.60	68.20	12.60	PK

Band : UNII 3
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5775 MHz
 Channel No. 155 Ch

Frequency [MHz]	Reading [dBuV]	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	47.53	4.89	V	52.42	73.98	21.56	PK
11550	38.04	4.89	V	42.93	53.98	11.05	AV
17325	47.01	10.86	V	57.87	68.20	10.33	PK
11550	46.15	4.89	H	51.04	73.98	22.94	PK
11550	37.21	4.89	H	42.10	53.98	11.88	AV
17325	46.96	10.86	H	57.82	68.20	10.38	PK

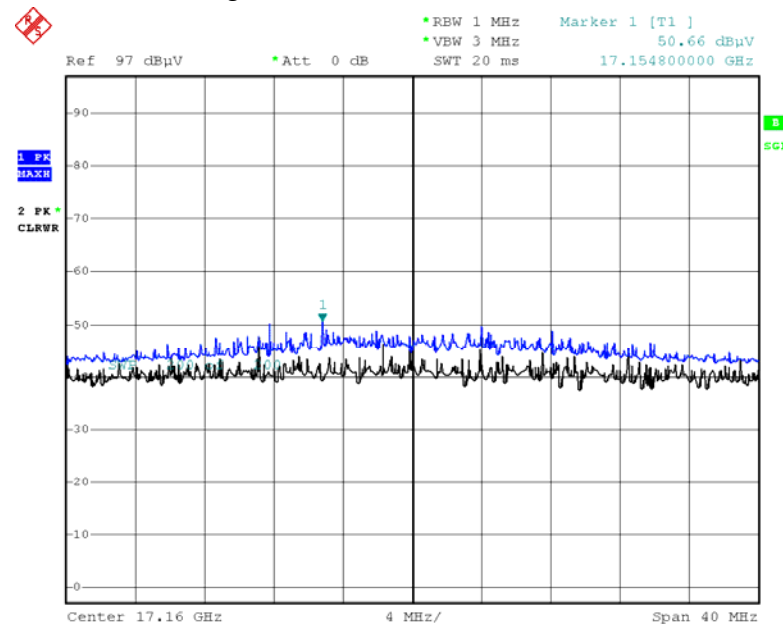
Test Plots

Peak Reading (802.11a, Ch.144 3rd Harmonic, H)



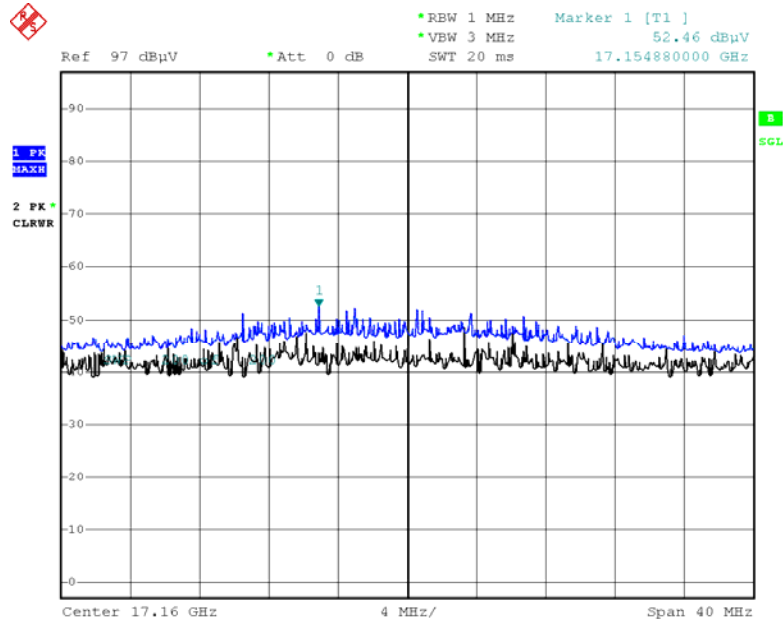
Date: 20.MAR.2020 05:23:38

Peak Reading (802.11n (HT20), Ch.144 3rd Harmonic, H)



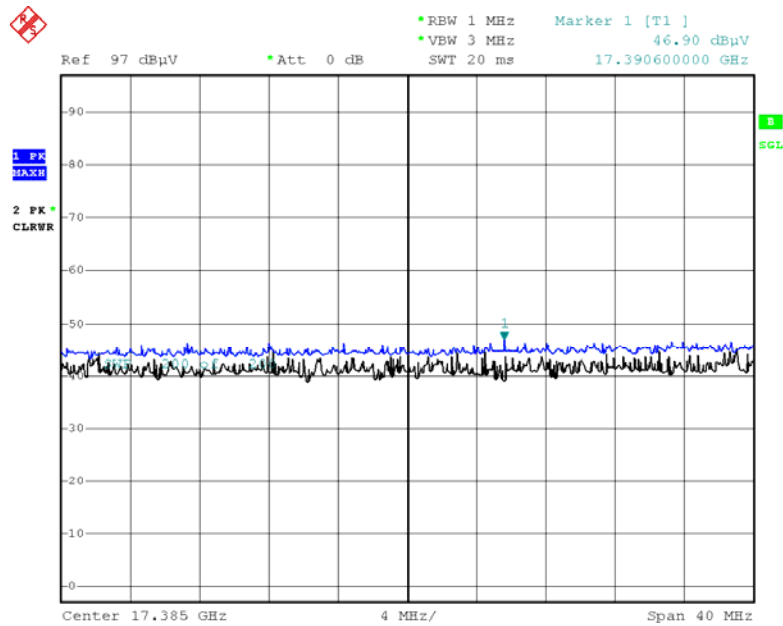
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Peak Reading (802.11ac (VHT20), Ch.144 3rd Harmonic, H)



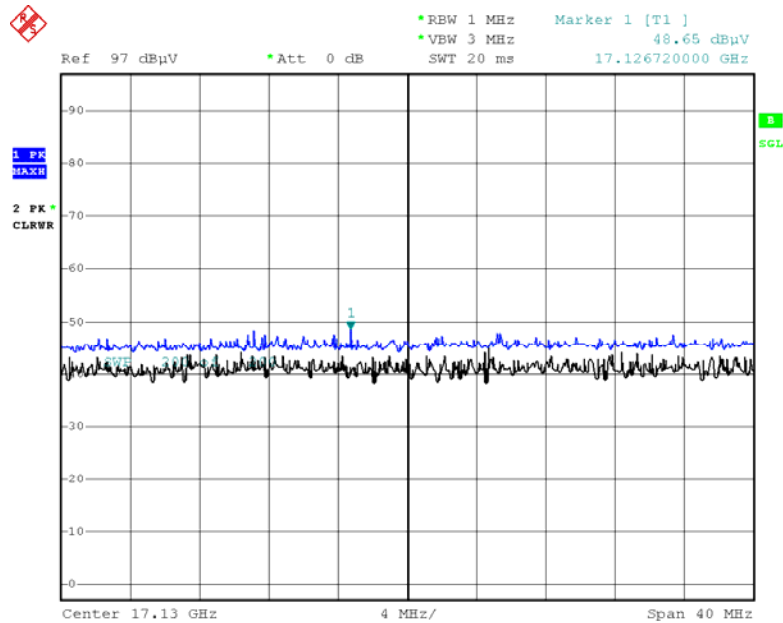
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Peak Reading (802.11n (HT40), Ch.159 3rd Harmonic, V)



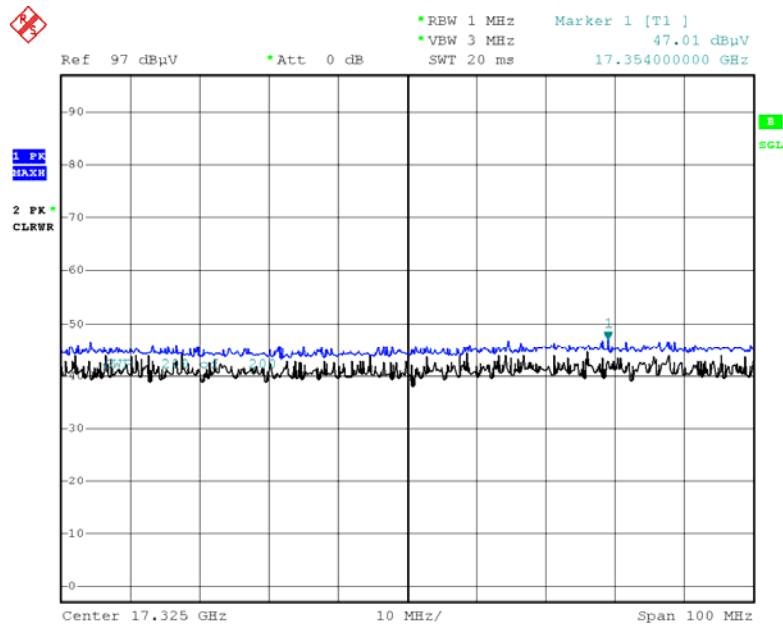
Date: 23.MAR.2020 04:18:35

Peak Reading (802.11ac (VHT40), Ch.142 3rd Harmonic, H)



Date: 23.MAR.2020 05:52:54

Peak Reading (802.11ac (VHT80), Ch.155 2nd Harmonic, V)



Date: 23.MAR.2020 08:19:15

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	42.07	11.88	H	53.95	73.98	20.03	PK
5150	29.32	11.88	H	41.20	53.98	12.78	AV
5150	42.60	11.88	V	54.48	73.98	19.50	PK
5150	29.34	11.88	V	41.22	53.98	12.76	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	41.88	12.17	H	54.05	73.98	19.93	PK
5350	29.07	12.17	H	41.24	53.98	12.74	AV
5350	42.48	12.17	V	54.65	73.98	19.33	PK
5350	29.12	12.17	V	41.29	53.98	12.69	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.92	12.57	H	55.49	73.98	18.49	PK
5460	28.39	12.57	H	40.96	53.98	13.02	AV
5470	41.97	12.75	H	54.72	68.20	13.48	PK
5460	42.72	12.57	V	55.29	73.98	18.69	PK
5460	28.40	12.57	V	40.97	53.98	13.01	AV
5470	41.76	12.75	V	54.51	68.20	13.69	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	41.88	11.88	H	53.76	73.98	20.22	PK
5150	29.21	11.88	H	41.09	53.98	12.89	AV
5150	42.90	11.88	V	54.78	73.98	19.20	PK
5150	29.33	11.88	V	41.21	53.98	12.77	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	41.98	12.17	H	54.15	73.98	19.83	PK
5350	29.28	12.17	H	41.45	53.98	12.53	AV
5350	42.83	12.17	V	55.00	73.98	18.98	PK
5350	29.37	12.17	V	41.54	53.98	12.44	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.31	12.57	H	54.88	73.98	19.10	PK
5460	28.41	12.57	H	40.98	53.98	13.00	AV
5470	42.00	12.75	H	54.75	68.20	13.45	PK
5460	42.27	12.57	V	54.84	73.98	19.14	PK
5460	28.37	12.57	V	40.94	53.98	13.04	AV
5470	42.01	12.75	V	54.76	68.20	13.44	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	42.65	11.88	H	54.53	73.98	19.45	PK
5150	29.43	11.88	H	41.31	53.98	12.67	AV
5150	43.29	11.88	V	55.17	73.98	18.81	PK
5150	29.54	11.88	V	41.42	53.98	12.56	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	42.89	12.17	H	55.06	73.98	18.92	PK
5350	29.37	12.17	H	41.54	53.98	12.44	AV
5350	43.06	12.17	V	55.23	73.98	18.75	PK
5350	29.64	12.17	V	41.81	53.98	12.17	AV

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.50	12.57	H	55.07	73.98	18.91	PK
5460	28.71	12.57	H	41.28	53.98	12.70	AV
5470	42.07	12.75	H	54.82	68.20	13.38	PK
5460	42.17	12.57	V	54.74	73.98	19.24	PK
5460	28.66	12.57	V	41.23	53.98	12.75	AV
5470	42.52	12.75	V	55.27	68.20	12.93	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	41.88	11.88	H	53.76	73.98	20.22	PK
5150	30.16	11.88	H	42.04	53.98	11.94	AV
5150	42.71	11.88	V	54.59	73.98	19.39	PK
5150	30.22	11.88	V	42.10	53.98	11.88	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	42.07	12.17	H	54.24	73.98	19.74	PK
5350	30.02	12.17	H	42.19	53.98	11.79	AV
5350	42.77	12.17	V	54.94	73.98	19.04	PK
5350	30.06	12.17	V	42.23	53.98	11.75	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	41.89	12.57	H	54.46	73.98	19.52	PK
5460	30.10	12.57	H	42.67	53.98	11.31	AV
5470	41.92	12.75	H	54.67	68.20	13.53	PK
5460	42.60	12.57	V	55.17	73.98	18.81	PK
5460	30.16	12.57	V	42.73	53.98	11.25	AV
5470	42.80	12.75	V	55.55	68.20	12.65	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	42.24	11.88	H	54.12	73.98	19.86	PK
5150	30.11	11.88	H	41.99	53.98	11.99	AV
5150	42.81	11.88	V	54.69	73.98	19.29	PK
5150	30.32	11.88	V	42.20	53.98	11.78	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	41.86	12.17	H	54.03	73.98	19.95	PK
5350	29.59	12.17	H	41.76	53.98	12.22	AV
5350	42.19	12.17	V	54.36	73.98	19.62	PK
5350	29.66	12.17	V	41.83	53.98	12.15	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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.24	12.57	H	54.81	73.98	19.17	PK
5460	29.57	12.57	H	42.14	53.98	11.84	AV
5470	42.19	12.75	H	54.94	68.20	13.26	PK
5460	42.58	12.57	V	55.15	73.98	18.83	PK
5460	29.92	12.57	V	42.49	53.98	11.49	AV
5470	42.77	12.75	V	55.52	68.20	12.68	PK

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	42.02	11.88	H	53.90	73.98	20.08	PK
5150	31.11	11.88	H	42.99	53.98	10.99	AV
5150	42.11	11.88	V	53.99	73.98	19.99	PK
5150	31.16	11.88	V	43.04	53.98	10.94	AV

Band : UNII 2A
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5290 MHz
 Channel No. 58 Ch

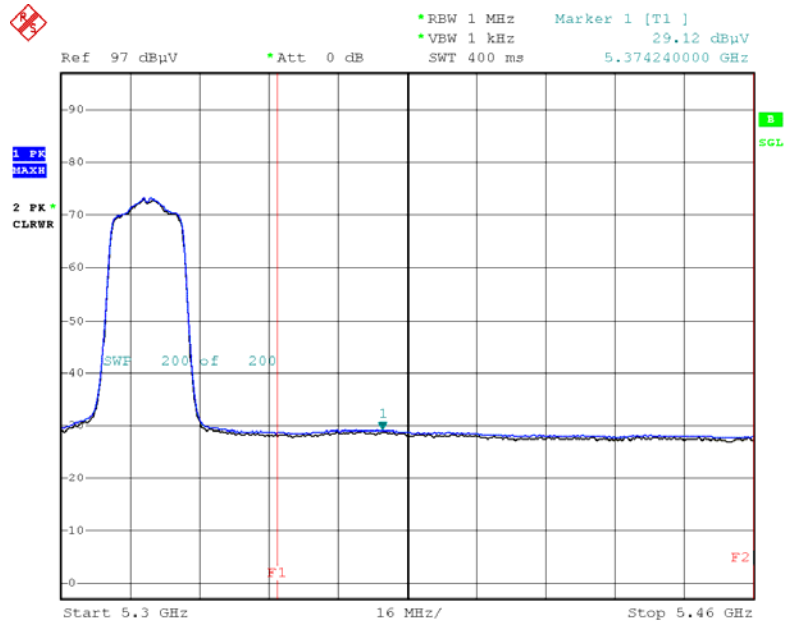
Frequency [MHz]	Reading dBuV	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	41.57	12.17	H	53.74	73.98	20.24	PK
5350	30.59	12.17	H	42.76	53.98	11.22	AV
5350	41.92	12.17	V	54.09	73.98	19.89	PK
5350	30.76	12.17	V	42.93	53.98	11.05	AV

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	CL+AF+DF-AG [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	41.51	12.57	H	54.08	73.98	19.90	PK
5460	30.01	12.57	H	42.58	53.98	11.40	AV
5470	41.22	12.75	H	53.97	68.20	14.23	PK
5460	41.66	12.57	V	54.23	73.98	19.75	PK
5460	30.02	12.57	V	42.59	53.98	11.39	AV
5470	41.29	12.75	V	54.04	68.20	14.16	PK

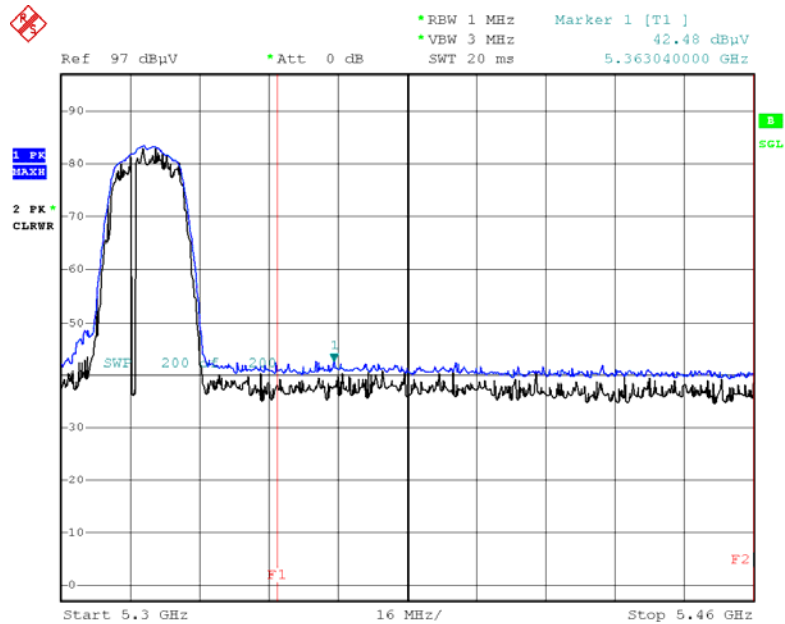
Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11a, Ch.64 , X-V)



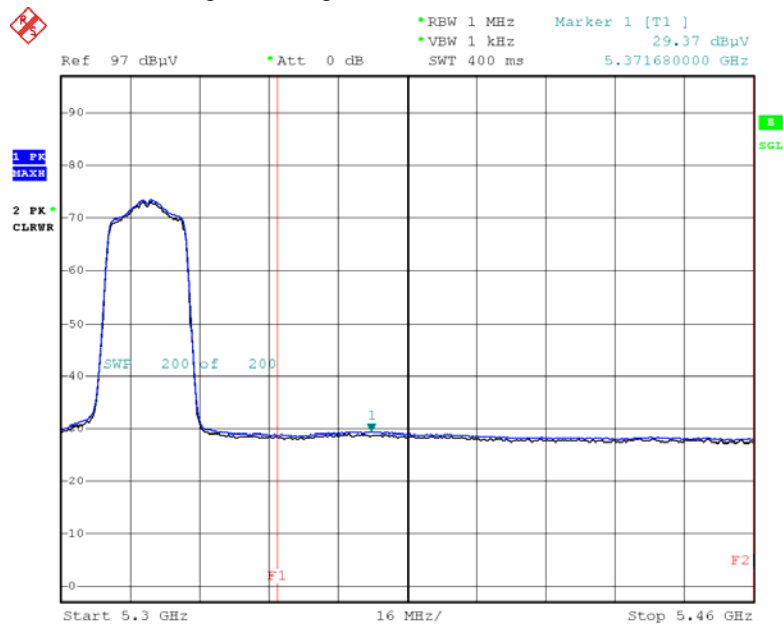
Date: 19.MAR.2020 06:00:18

Peak Reading (802.11a, Ch.64, X-V)



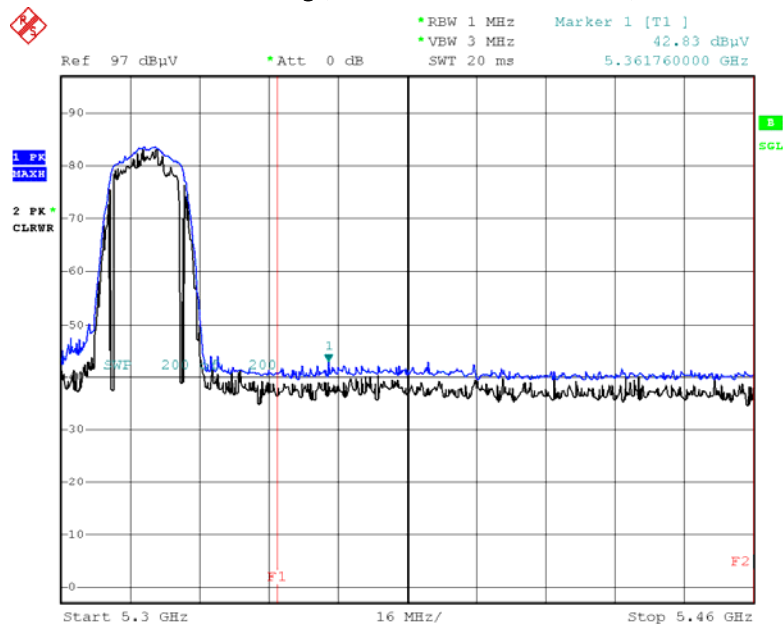
Date: 19.MAR.2020 06:00:54

Average Reading (802.11n_HT20, Ch.64, X-V)



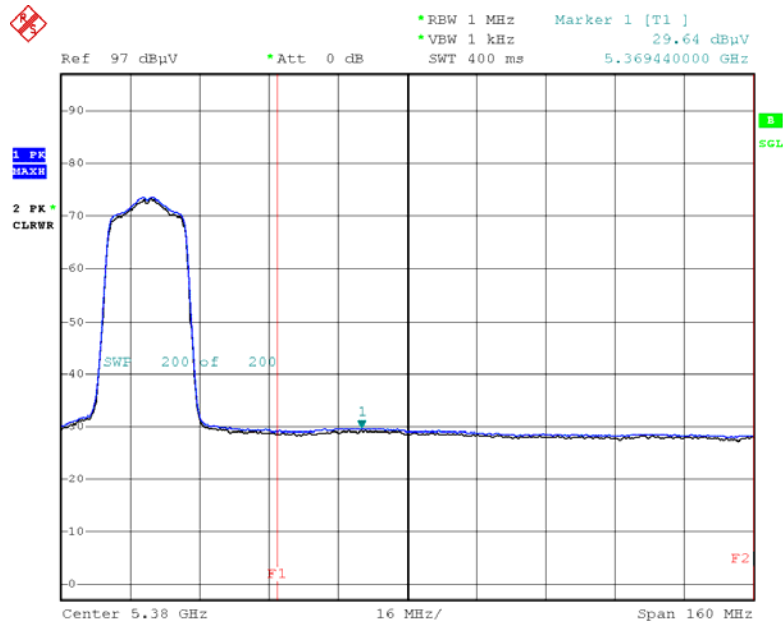
Date: 19.MAR.2020 06:53:06

Peak Reading (802.11n_HT20, Ch.64, X-V)



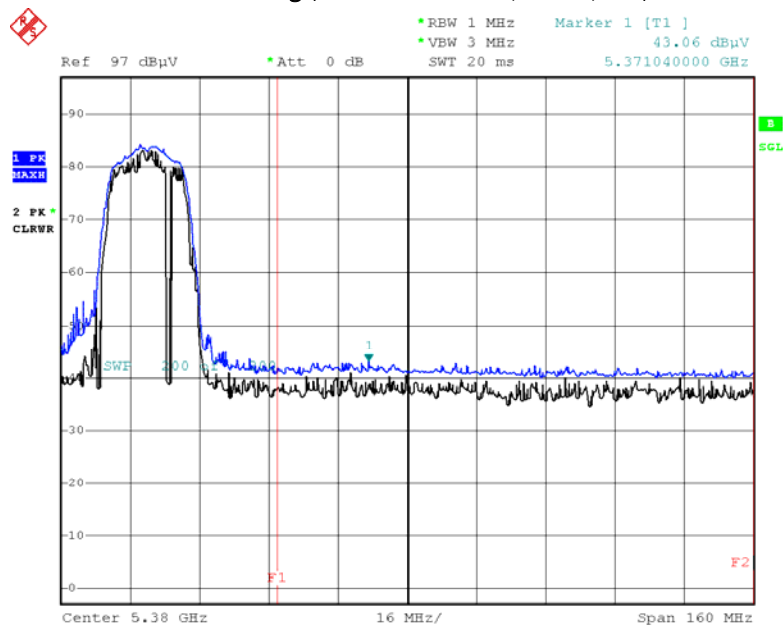
Date: 19.MAR.2020 06:53:28

Average Reading (802.11ac_VHT20, Ch.64, X-V)



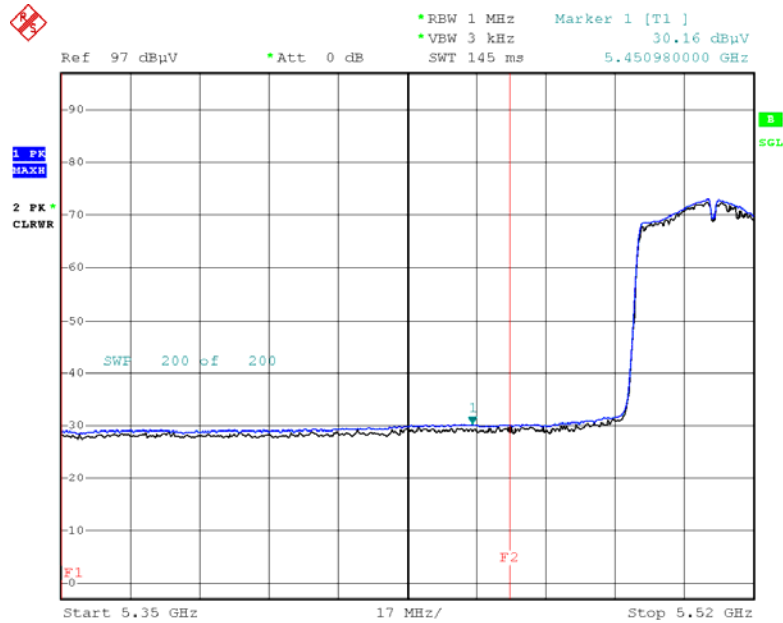
Date: 19.MAR.2020 08:32:31

Peak Reading (802.11ac_VHT20, Ch.64, X-V)



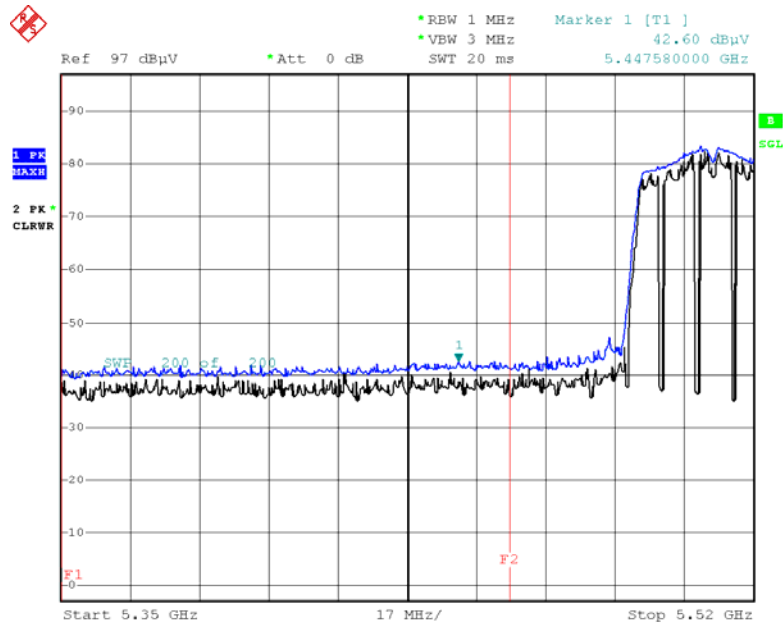
Date: 19.MAR.2020 08:33:27

Average Reading (802.11n_HT40, Ch.102, X-V)



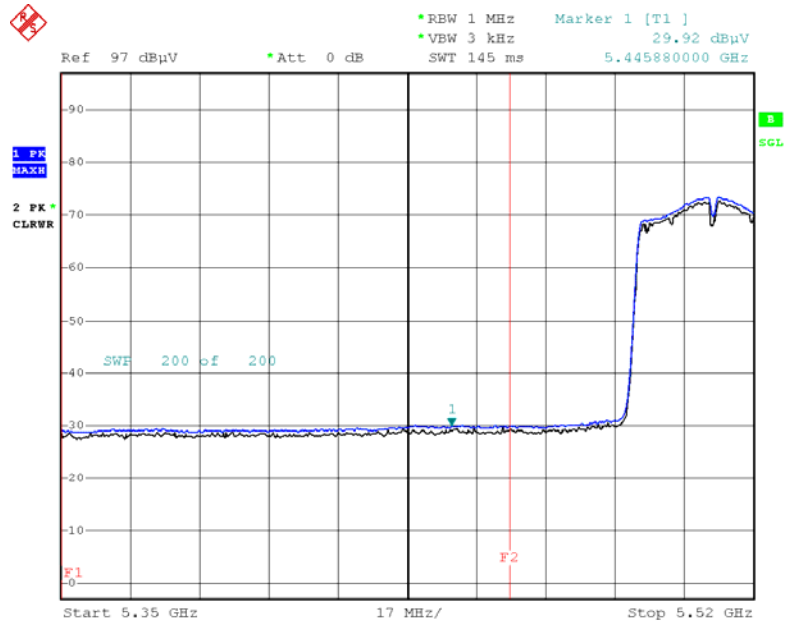
Date: 19.MAR.2020 09:36:23

Peak Reading (802.11n_HT40, Ch.102, X-V)



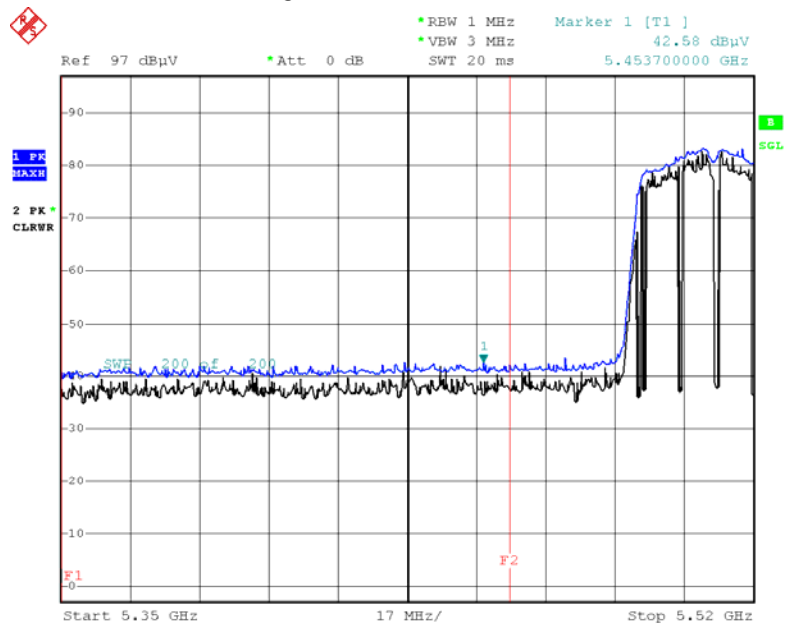
Date: 19.MAR.2020 09:36:50

Average Reading (802.11ac_VHT40, Ch.102, X-V)



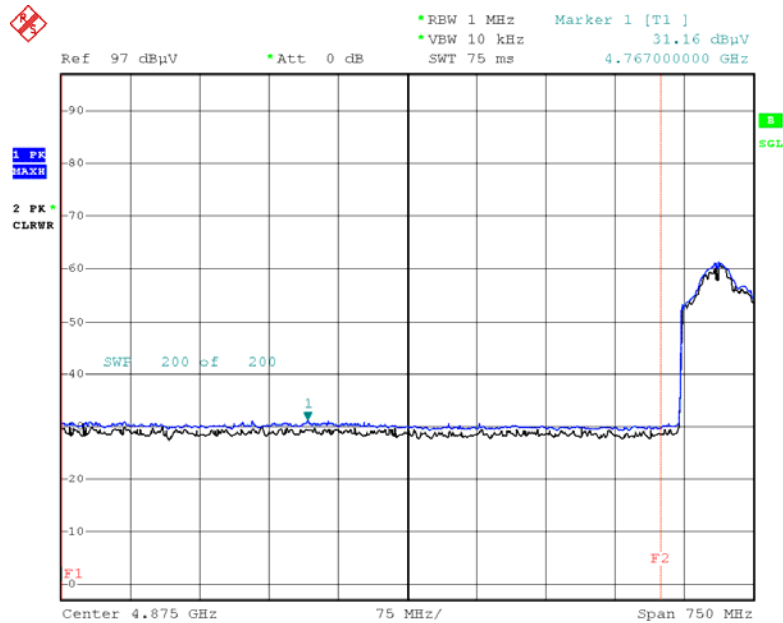
Date: 20.MAR.2020 01:04:00

Peak Reading (802.11ac_VHT40, Ch.102, X-V)



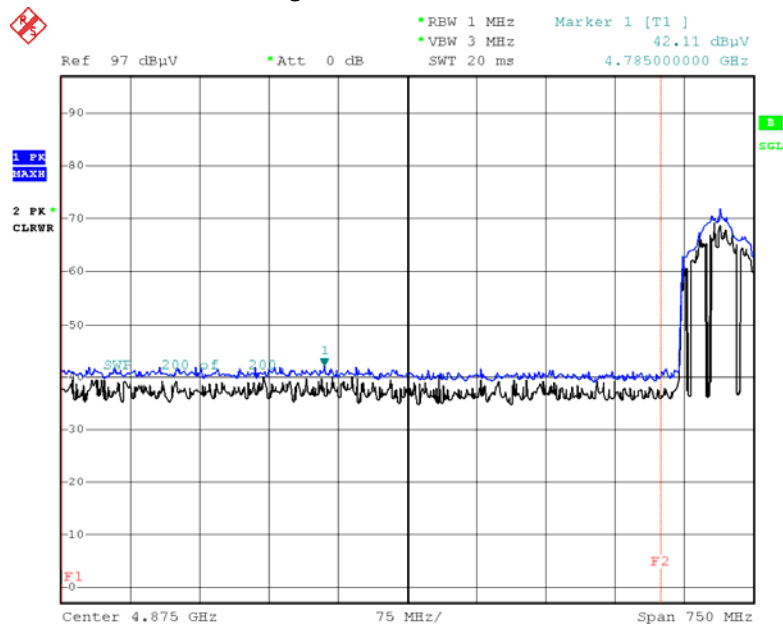
Date: 20.MAR.2020 01:04:36

Average Reading (802.11ac_VHT80, Ch.42, X-V)



Date: 20.MAR.2020 01:22:21

Peak Reading (802.11ac_VHT80, Ch.42, X-V)



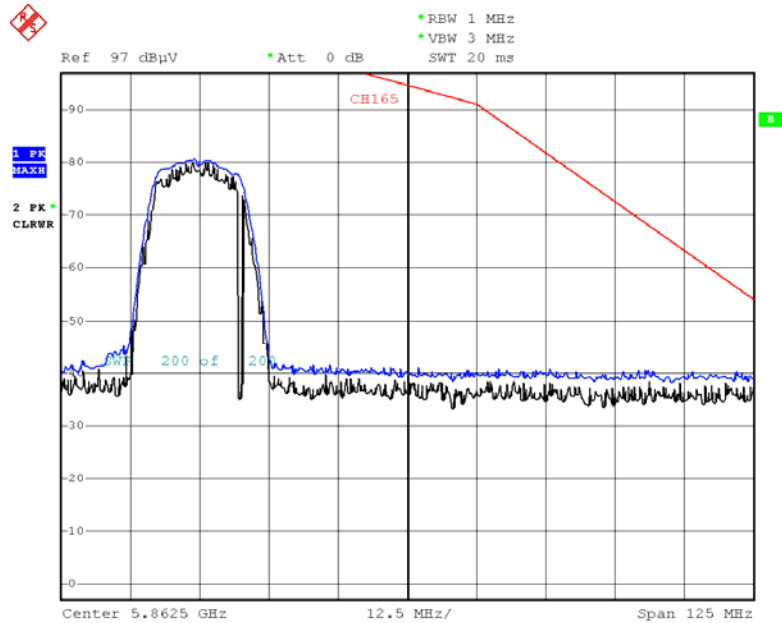
Date: 20.MAR.2020 01:22:55

Note :

Only the worst case plots for Radiated Restricted Band Edge.

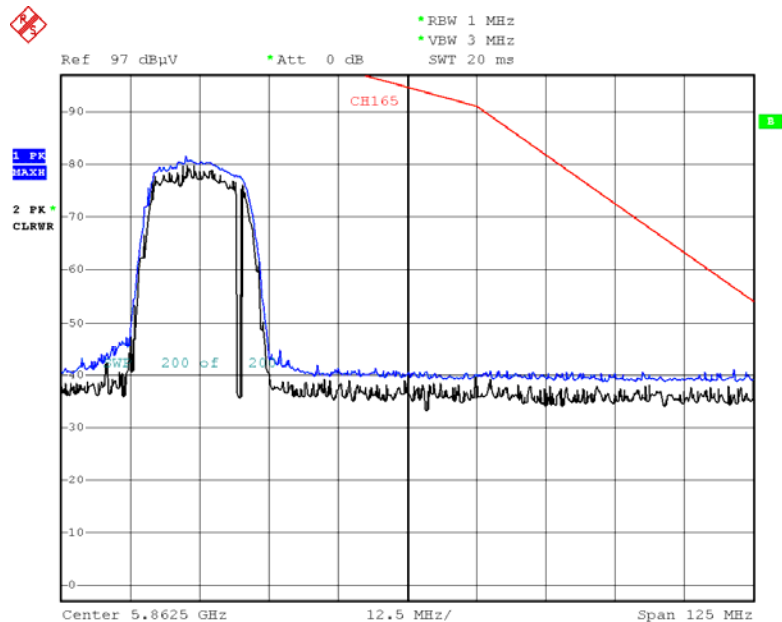
Test Plots(UNII 3)

Peak Reading (802.11a, Ch.165, X-V)



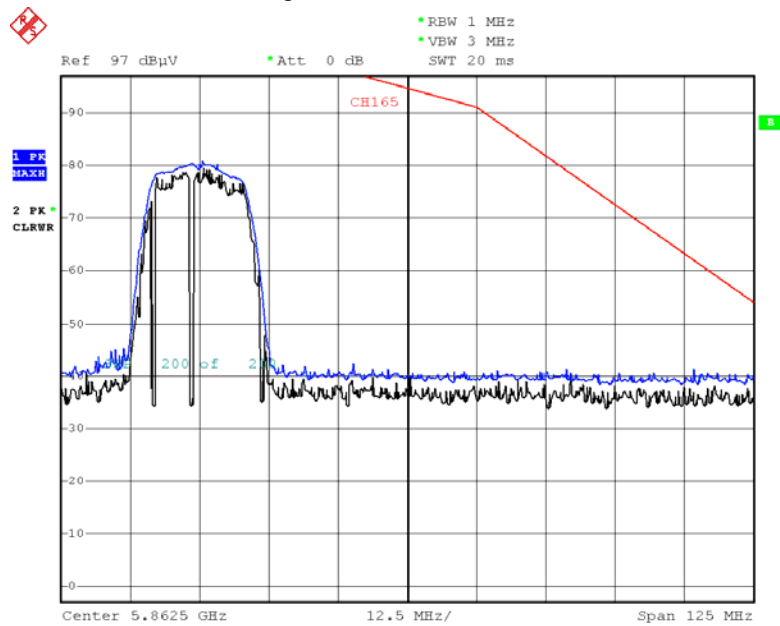
Date: 19.MAR.2020 06:38:50

Peak Reading (802.11n_HT20, Ch.165, X-V)



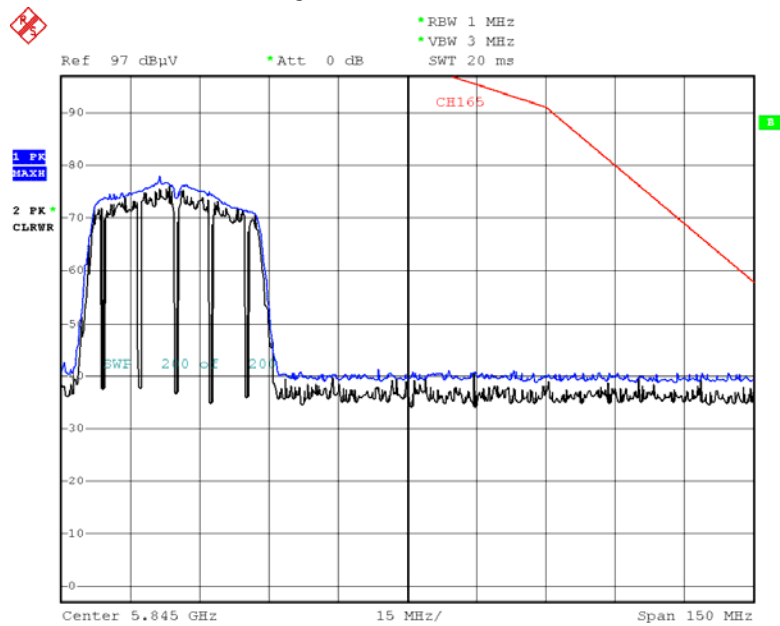
Date: 19.MAR.2020 07:20:06

Peak Reading (802.11ac_VHT20, Ch.165, X-V)



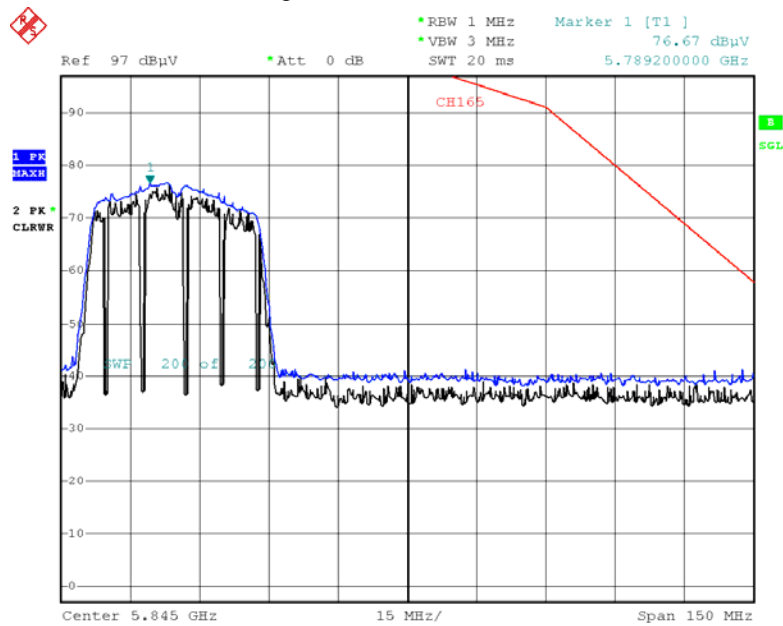
Date: 19.MAR.2020 08:50:54

Peak Reading (802.11n_HT40, Ch.159, X-H)



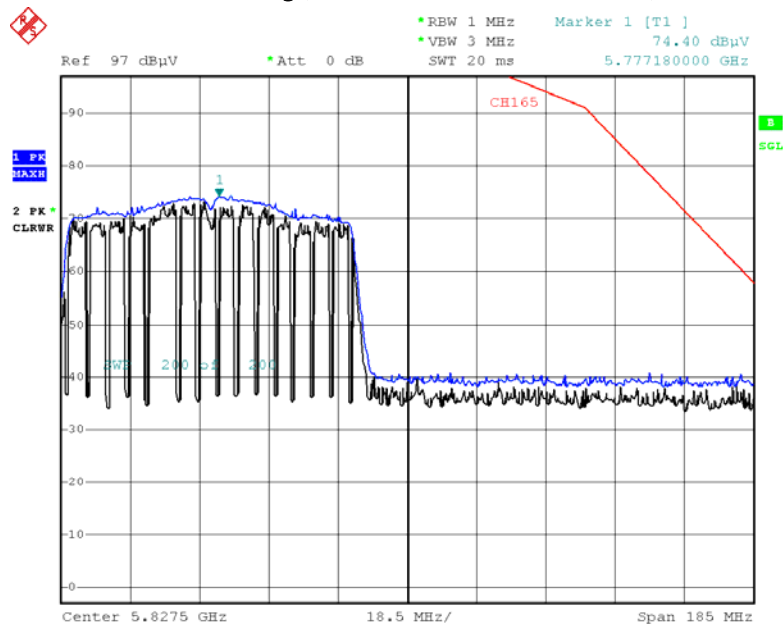
Date: 19.MAR.2020 09:47:56

Peak Reading (802.11ac_VHT40, Ch.159, X-H)



Date: 20.MAR.2020 01:09:56

Peak Reading (802.11ac_VHT80, Ch.155, X-V)



Date: 20.MAR.2020 01:56:29

11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	09/11/2019	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/18/2019	Annual	100033
ESPAC	SU-642 / Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	01/13/2020	Annual	MY49431210
Agilent	N1911A / Power Meter	09/10/2019	Annual	MY45101406
Agilent	N1921A / Power Sensor	09/06/2019	Annual	MY55220026
Agilent	87300B / Directional Coupler	11/11/2019	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/02/2019	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	05/16/2019	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	04/26/2019	Biennial	1513-175
Schwarzbeck	VULB 9160 / Hybrid Antenna	08/09/2018	Biennial	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	11/18/2019	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	11/29/2019	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/11/2019	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/26/2019	Annual	101068-SZ
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/19/2019	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	02/10/2020	Annual	1
CERNEX	CBLU1183540B-01/Broadband Bench Top LNA	12/24/2019	Annual	N/A
WEINSCHTEL	56-10 / Attenuator(10 dB)			
CERNEX	CBL06185030 / Broadband Low Noise Amplifier	12/24/2019	Annual	N/A
Api tech.	18B-03 / Attenuator (3 dB)			
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	12/24/2019	Annual	N/A
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	12/24/2019	Annual	N/A
T&M SYSTEM	COAXIAL ATTENUATOR / Thru	12/24/2019	Annual	N/A
CERNEX	CBL18265035 / Power Amplifier	12/26/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/18/2019	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-2004-FC003-P