

5 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.88 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.88	+20(Ref)	5210033.77	33.77
100%		-30	5210095.89	95.89
100%		-20	5210056.02	56.02
100%		-10	5210042.59	42.59
100%		0	5210034.43	34.43
100%		+10	5210017.38	17.38
100%		+30	5210033.63	33.63
100%		+40	5210060.18	60.18
100%		+50	5210058.90	58.90
HIGH		4.38	+20	5210075.97
LOW	3.68	+20	5210070.95	70.95

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.88 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.88	+20(Ref)	5290008.97	8.97
100%		-30	5290059.82	59.82
100%		-20	5290093.83	93.83
100%		-10	5290076.10	76.1
100%		0	5290006.38	6.38
100%		+10	5290024.92	24.92
100%		+30	5290088.74	88.74
100%		+40	5290040.14	40.14
100%		+50	5290070.20	70.20
HIGH		4.38	+20	5290013.91
LOW	3.68	+20	5290038.97	38.97

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.88 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.88	+20(Ref)	5530099.19	99.19
100%		-30	5530021.32	21.32
100%		-20	5530030.90	30.9
100%		-10	5530030.50	30.5
100%		0	5530046.03	46.03
100%		+10	5530082.87	82.87
100%		+30	5530071.72	71.72
100%		+40	5530052.24	52.24
100%		+50	5530047.52	47.52
HIGH		4.38	+20	5530022.36
LOW	3.68	+20	5530008.24	8.24

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.88 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.88	+20(Ref)	5775093.50	93.50
100%		-30	5775046.64	46.64
100%		-20	5775075.72	75.72
100%		-10	5775079.54	79.54
100%		0	5775051.31	51.31
100%		+10	5775019.79	19.79
100%		+30	5775066.97	66.97
100%		+40	5775007.73	7.73
100%		+50	5775092.34	92.34
HIGH		4.38	+20	5775056.04
LOW	3.68	+20	5775026.48	26.48

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

10 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.88 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.88	+20(Ref)	5210045.35	45.35
100%		-30	5210097.09	97.09
100%		-20	5210077.13	77.13
100%		-10	5210024.56	24.56
100%		0	5210060.70	60.70
100%		+10	5210079.12	79.12
100%		+30	5210074.95	74.95
100%		+40	5210040.20	40.20
100%		+50	5210038.95	38.95
HIGH		4.38	+20	5210089.74
LOW	3.68	+20	5210034.18	34.18

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.88 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.88	+20(Ref)	5290072.46	72.46
100%		-30	5290067.46	67.46
100%		-20	5290046.09	46.09
100%		-10	5290042.30	42.3
100%		0	5290041.16	41.16
100%		+10	5290026.07	26.07
100%		+30	5290009.48	9.48
100%		+40	5290032.67	32.67
100%		+50	5290061.79	61.79
HIGH		4.38	+20	5290091.34
LOW	3.68	+20	5290064.88	64.88

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.88 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.88	+20(Ref)	5530002.14	2.14
100%		-30	5530086.35	86.35
100%		-20	5530018.27	18.27
100%		-10	5530077.41	77.41
100%		0	5530040.38	40.38
100%		+10	5530004.07	4.07
100%		+30	5530024.42	24.42
100%		+40	5530005.94	5.94
100%		+50	5530074.11	74.11
HIGH		4.38	+20	5530090.24
LOW	3.68	+20	5530008.68	8.68

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3
 OPERATING FREQUENCY: 5,775,000,000 Hz
 CHANNEL: 155
 REFERENCE VOLTAGE: 3.88 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.88	+20(Ref)	5775011.68	11.68
100%		-30	5775014.43	14.43
100%		-20	5775047.99	47.99
100%		-10	5775037.67	37.67
100%		0	5775080.29	80.29
100%		+10	5775067.83	67.83
100%		+30	5775083.35	83.35
100%		+40	5775064.70	64.7
100%		+50	5775073.46	73.46
HIGH		4.38	+20	5775004.17
LOW	3.68	+20	5775083.04	83.04

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

10.7 STRADDLE CHANNEL

10.7.1 26dB Bandwidth

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11a	UNII 2C	5720	144	5710.56	14.44
802.11n(HT20)				5710.24	14.76
802.11ac(VHT20)				5710.20	14.80
802.11a	UNII 3	5720	144	5729.36	4.36
802.11n(HT20)				5729.80	4.80
802.11ac(VHT20)				5729.72	4.72

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11n(HT40)	UNII 2C	5710	142	5690.40	34.60
802.11ac(VHT40)				5690.48	34.52
802.11n(HT40)	UNII 3	5710	142	5729.68	4.68
802.11ac(VHT40)				5729.68	4.68

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11ac(VHT80)	UNII 2C	5690	138	5649.32	75.68
	UNII 3	5690	138	5730.80	5.80

Note:

[UNII 2C] 26dB Bandwidth = 5725MHz - Measured Frequency[MHz]

[UNII 3C] 26dB Bandwidth = Measured Frequency[MHz] -5725MHz

Test Plots (26dB Bandwidth)

802.11a UNII Band



802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band



Test Plots (26dB Bandwidth)

802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



10.7.2 6dB Bandwidth

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.56	2.56	> 0.5
802.11n(HT20)				5727.56	2.56	> 0.5
802.11ac(VHT20)				5727.54	2.54	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.54	2.54	> 0.5
802.11ac(VHT40)				5727.55	2.55	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.39	2.39	> 0.5

Note:

6dB Bandwidth = Measured Frequency[MHz] – 5725MHz

Test Plots(UNII 3 Band 6dB Bandwidth)

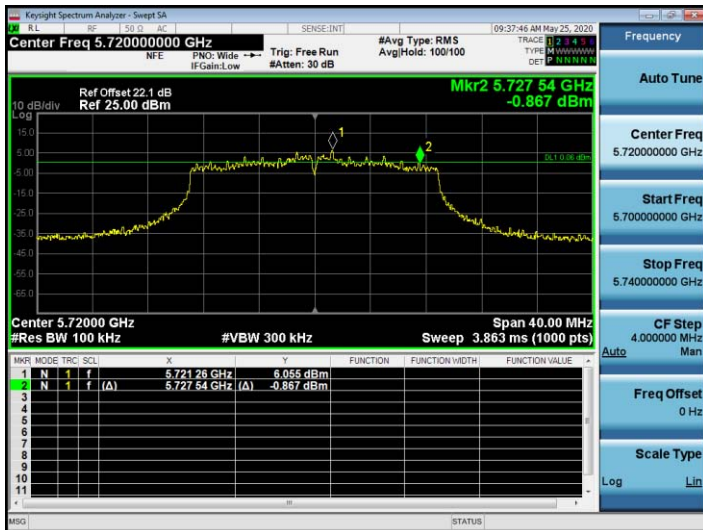
802.11a CH.144



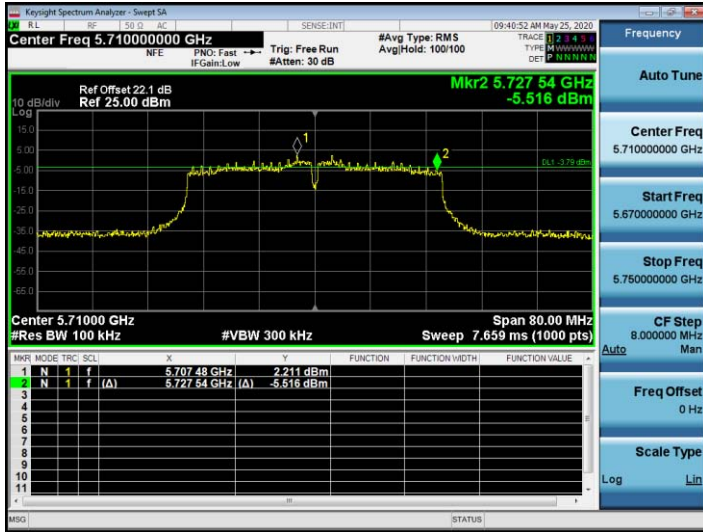
802.11n_HT20 CH.144



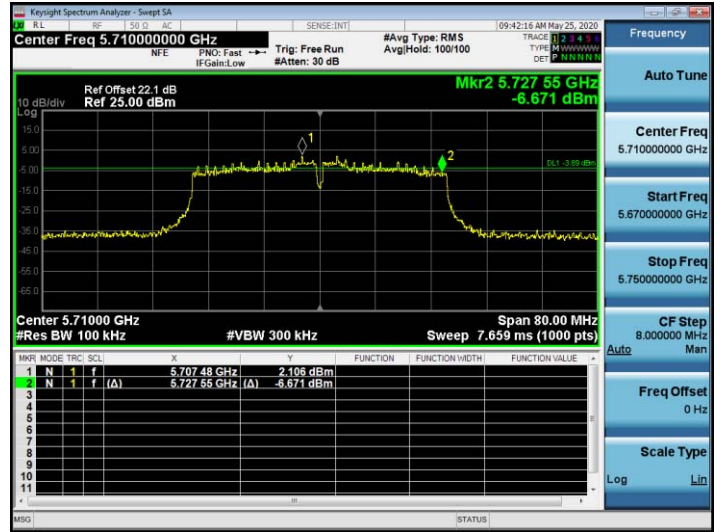
802.11ac_VHT20 CH.144



802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	7.338	0.313	7.65	22.60
802.11n(HT20)			5.704	0.420	6.12	22.69
802.11ac(VHT20)			4.833	0.416	5.25	22.70
802.11a	5720 (UNII 3 Band)	144	1.685	0.313	2.00	30.00
802.11n(HT20)			0.370	0.420	0.79	30.00
802.11ac(VHT20)			-0.308	0.416	0.11	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	0.805	0.589	1.39	23.98
802.11ac(VHT40)			0.837	0.730	1.57	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	-6.739	0.589	-6.15	30.00
802.11ac(VHT40)			-6.993	0.730	-6.26	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	-3.694	1.211	-2.48	23.98
	5690 (UNII 3 Band)	138	-11.898	1.211	-10.69	30.00

Test Plots

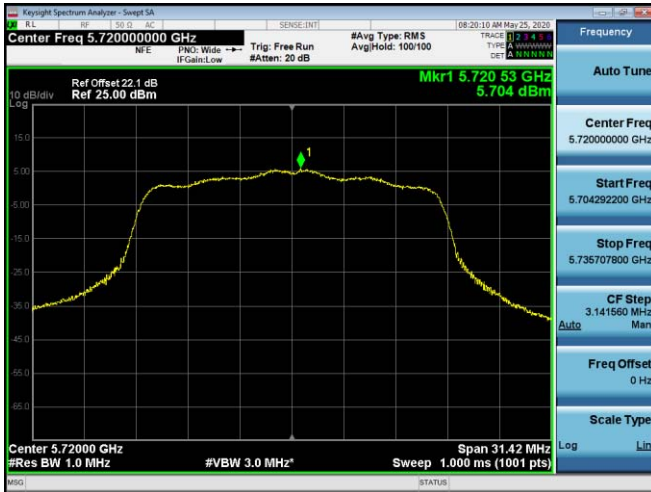
802.11a UNII 2C Band



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	15.62	0.313	15.933	11dBm/ MHz
802.11n(HT20)			14.21	0.420	14.630	
802.11ac(VHT20)			13.24	0.416	13.656	
802.11a	5720 (UNII 3 Band)	144	7.19	0.313	7.503	30 dBm/ 500kHz
802.11n(HT20)			6.32	0.420	6.740	
802.11ac(VHT20)			5.38	0.416	5.796	

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	12.71	0.589	13.299	11dBm/ MHz
802.11ac(VHT40)			12.64	0.730	13.370	
802.11n(HT40)	5710 (UNII 3 Band)	142	-0.14	0.589	0.449	30 dBm/ 500kHz
802.11ac(VHT40)			-0.40	0.730	0.330	

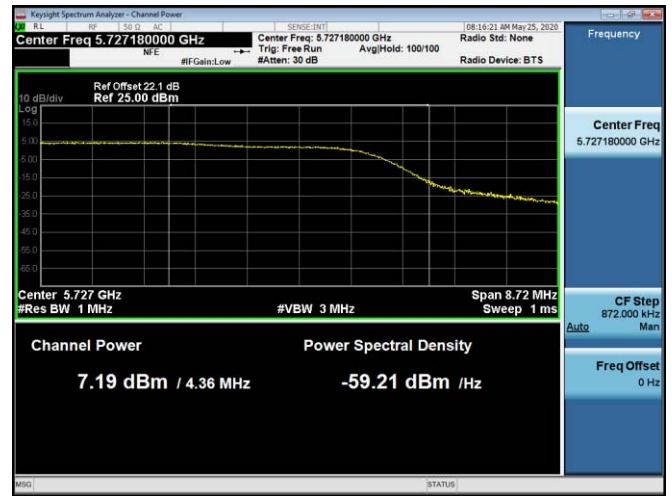
Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	10.87	1.211	12.081	11dBm/ MHz
	5690 (UNII 3 Band)	138	-5.94	1.211	-4.729	30 dBm/ 500kHz

☐ Test Plots

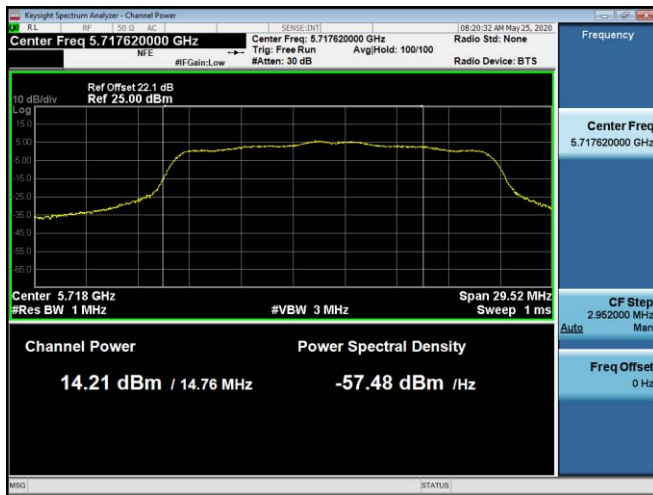
802.11a UNII 2C Band



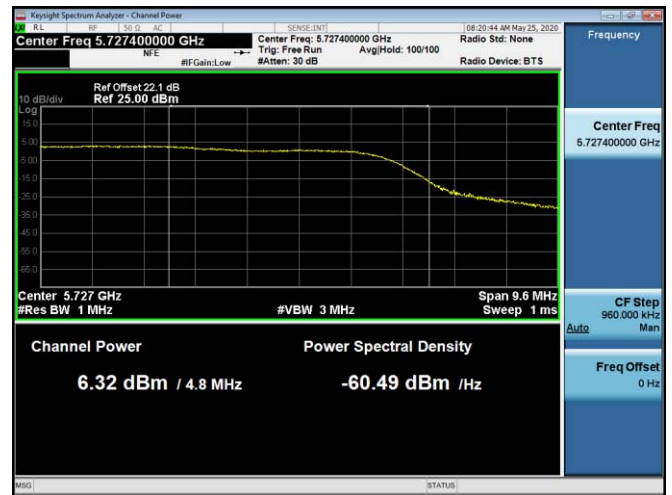
802.11a UNII 3 Band



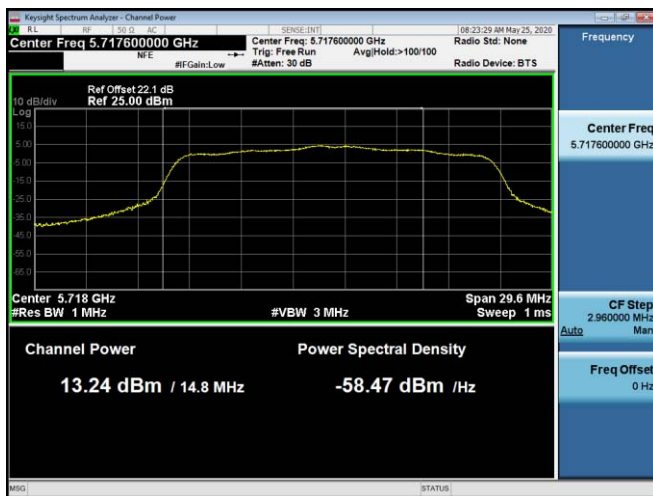
802.11n(HT20) UNII 2C Band



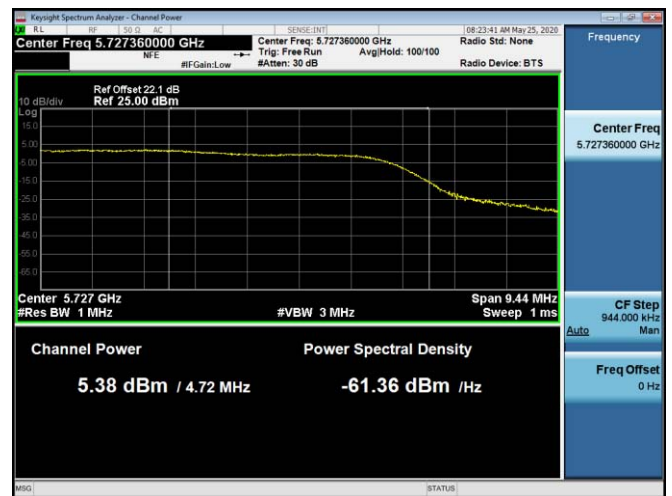
802.11n(HT20) UNII 3 Band



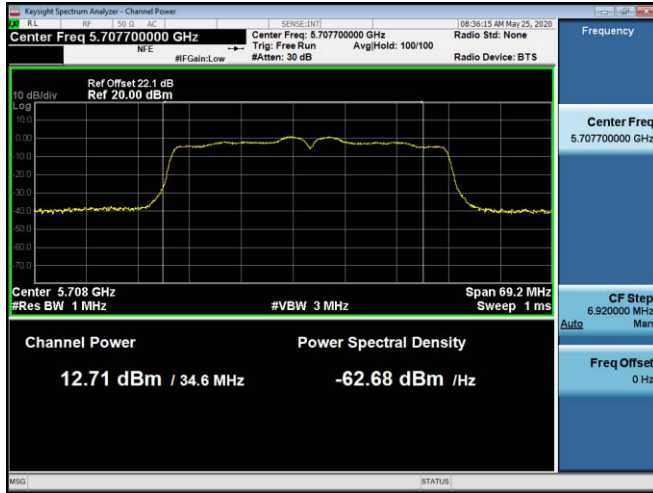
802.11ac(VHT20) UNII 2C Band



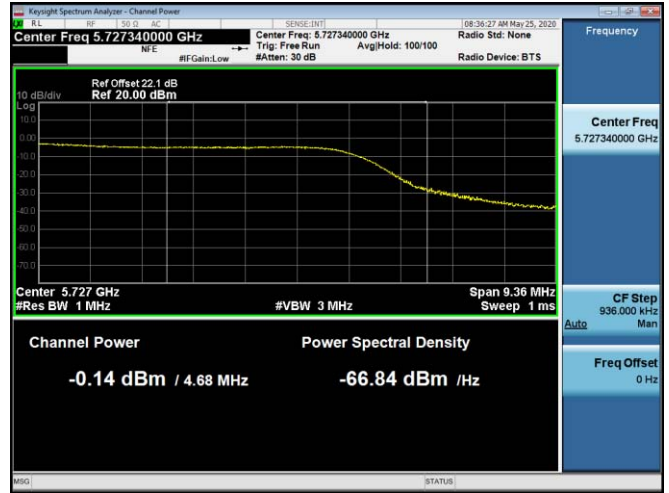
802.11ac(VHT20) UNII 3 Band



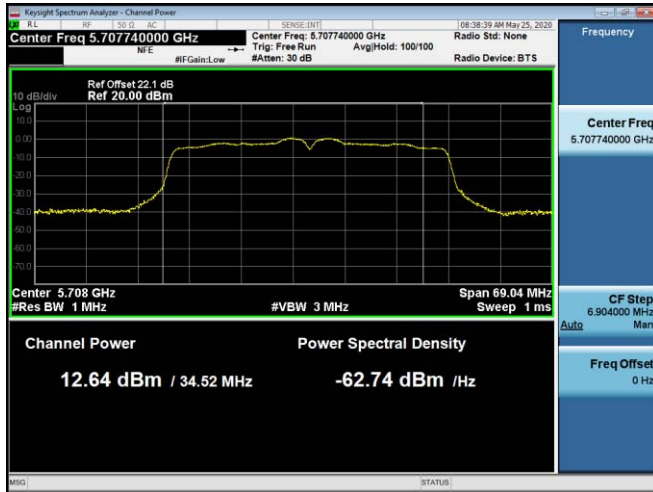
802.11n(HT40) UNII 2C Band



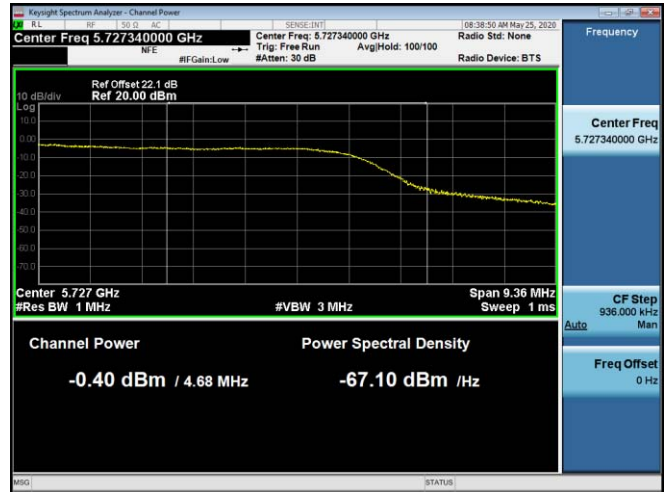
802.11n(HT40) UNII 3 Band



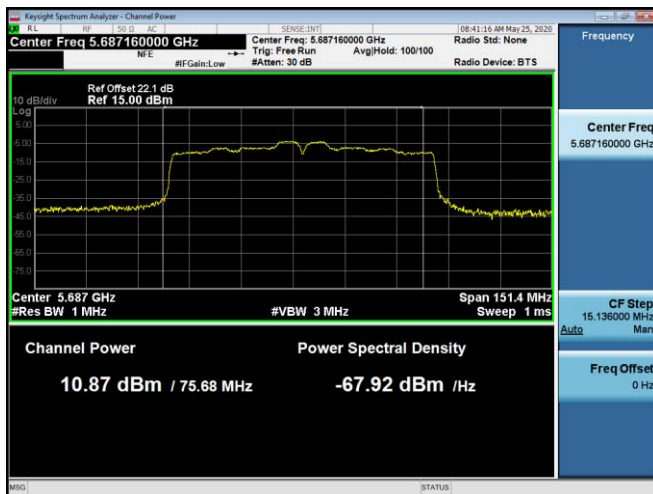
802.11ac(VHT40) UNII 2C Band



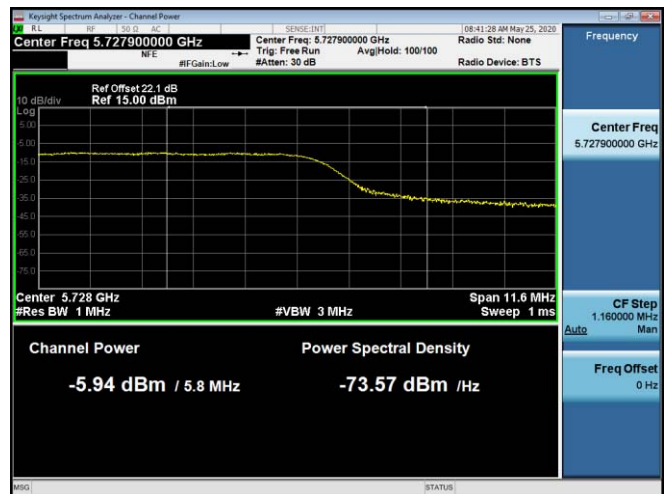
802.11ac(VHT40) UNII 3 Band



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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	46.94	4.71	V	51.65	68.20	16.55	PK
15540	46.48	5.57	V	52.05	73.98	21.93	PK
15540	32.00	5.57	V	37.57	53.98	16.41	AV
10360	48.34	4.71	H	53.05	68.20	15.15	PK
15540	46.84	5.57	H	52.41	73.98	21.57	PK
15540	32.06	5.57	H	37.63	53.98	16.35	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	46.41	4.43	V	50.84	68.20	17.36	PK
15600	45.87	4.77	V	50.64	73.98	23.34	PK
15600	32.15	4.77	V	36.92	53.98	17.06	AV
10400	47.48	4.43	H	51.91	68.20	16.29	PK
15600	46.70	4.77	H	51.47	73.98	22.51	PK
15600	32.32	4.77	H	37.09	53.98	16.89	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	47.24	4.84	V	52.08	68.20	16.12	PK
15720	45.73	3.99	V	49.72	73.98	24.26	PK
15720	32.15	3.99	V	36.14	53.98	17.84	AV
10480	47.32	4.84	H	52.16	68.20	16.04	PK
15720	46.15	3.99	H	50.14	73.98	23.84	PK
15720	32.53	3.99	H	36.52	53.98	17.46	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	47.24	4.58	V	51.82	68.20	16.38	PK
15780	45.21	4.55	V	49.76	73.98	24.22	PK
15780	31.98	4.55	V	36.53	53.98	17.45	AV
10520	47.91	4.58	H	52.49	68.20	15.71	PK
15780	45.37	4.55	H	49.92	73.98	24.06	PK
15780	32.11	4.55	H	36.66	53.98	17.32	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	48.28	4.79	V	53.07	73.98	20.91	PK
10600	33.58	4.79	V	38.37	53.98	15.61	AV
15900	45.37	5.29	V	50.66	73.98	23.32	PK
15900	31.34	5.29	V	36.63	53.98	17.35	AV
10600	48.35	4.79	H	53.14	73.98	20.84	PK
10600	34.57	4.79	H	39.36	53.98	14.62	AV
15900	45.92	5.29	H	51.21	73.98	22.77	PK
15900	31.71	5.29	H	37.00	53.98	16.98	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	47.69	4.82	V	52.51	73.98	21.47	PK
10640	33.14	4.82	V	37.96	53.98	16.02	AV
15960	46.23	4.71	V	50.94	73.98	23.04	PK
15960	31.41	4.71	V	36.12	53.98	17.86	AV
10640	48.40	4.82	H	53.22	73.98	20.76	PK
10640	34.10	4.82	H	38.92	53.98	15.06	AV
15960	46.25	4.71	H	50.96	73.98	23.02	PK
15960	32.22	4.71	H	36.93	53.98	17.05	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	46.96	4.61	V	51.57	73.98	22.41	PK
11000	33.64	4.61	V	38.25	53.98	15.73	AV
16500	45.86	7.08	V	52.94	68.20	15.26	PK
11000	46.95	4.61	H	51.56	73.98	22.42	PK
11000	33.57	4.61	H	38.18	53.98	15.80	AV
16500	45.19	7.08	H	52.27	68.20	15.93	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	47.38	4.21	V	51.59	73.98	22.39	PK
11200	33.58	4.21	V	37.79	53.98	16.19	AV
16800	44.59	9.01	V	53.60	68.20	14.60	PK
11200	47.04	4.21	H	51.25	73.98	22.73	PK
11200	33.64	4.21	H	37.85	53.98	16.13	AV
16800	44.59	9.01	H	53.60	68.20	14.60	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	47.22	4.60	V	51.82	73.98	22.16	PK
11440	33.73	4.60	V	38.33	53.98	15.65	AV
17160	46.17	9.39	V	55.56	68.20	12.64	PK
11440	48.11	4.60	H	52.71	73.98	21.27	PK
11440	33.67	4.60	H	38.27	53.98	15.71	AV
17160	45.76	9.39	H	55.15	68.20	13.05	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	46.73	4.40	V	51.13	73.98	22.85	PK
11490	33.49	4.40	V	37.89	53.98	16.09	AV
17235	45.72	10.06	V	55.78	68.20	12.42	PK
11490	46.97	4.40	H	51.37	73.98	22.61	PK
11490	33.71	4.40	H	38.11	53.98	15.87	AV
17235	45.85	10.06	H	55.91	68.20	12.29	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	46.60	5.13	V	51.73	73.98	22.25	PK
11570	33.01	5.13	V	38.14	53.98	15.84	AV
17355	45.83	10.65	V	56.48	68.20	11.72	PK
11570	46.47	5.13	H	51.60	73.98	22.38	PK
11570	32.93	5.13	H	38.06	53.98	15.92	AV
17355	45.65	10.65	H	56.30	68.20	11.90	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	47.03	4.40	V	51.43	73.98	22.55	PK
11650	33.03	4.40	V	37.43	53.98	16.55	AV
17475	46.95	10.73	V	57.68	68.20	10.52	PK
11650	47.05	4.40	H	51.45	73.98	22.53	PK
11650	33.29	4.40	H	37.69	53.98	16.29	AV
17475	47.37	10.73	H	58.10	68.20	10.10	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	48.21	4.71	V	52.92	68.20	15.28	PK
15540	44.87	5.57	V	50.44	73.98	23.54	PK
15540	32.17	5.57	V	37.74	53.98	16.24	AV
10360	48.38	4.71	H	53.09	68.20	15.11	PK
15540	45.68	5.57	H	51.25	73.98	22.73	PK
15540	32.42	5.57	H	37.99	53.98	15.99	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	47.68	4.43	V	52.11	68.20	16.09	PK
15600	46.02	4.77	V	50.79	73.98	23.19	PK
15600	32.11	4.77	V	36.88	53.98	17.10	AV
10400	47.99	4.43	H	52.42	68.20	15.78	PK
15600	46.15	4.77	H	50.92	73.98	23.06	PK
15600	32.65	4.77	H	37.42	53.98	16.56	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	47.59	4.84	V	52.43	68.20	15.77	PK
15720	46.14	3.99	V	50.13	73.98	23.85	PK
15720	32.27	3.99	V	36.26	53.98	17.72	AV
10480	47.78	4.84	H	52.62	68.20	15.58	PK
15720	46.39	3.99	H	50.38	73.98	23.60	PK
15720	32.67	3.99	H	36.66	53.98	17.32	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	46.96	4.58	V	51.54	68.20	16.66	PK
15780	45.85	4.55	V	50.40	73.98	23.58	PK
15780	32.17	4.55	V	36.72	53.98	17.26	AV
10520	47.90	4.58	H	52.48	68.20	15.72	PK
15780	46.24	4.55	H	50.79	73.98	23.19	PK
15780	32.53	4.55	H	37.08	53.98	16.90	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	47.61	4.79	V	52.40	73.98	21.58	PK
10600	34.27	4.79	V	39.06	53.98	14.92	AV
15900	45.27	5.29	V	50.56	73.98	23.42	PK
15900	31.17	5.29	V	36.46	53.98	17.52	AV
10600	48.11	4.79	H	52.90	73.98	21.08	PK
10600	34.96	4.79	H	39.75	53.98	14.23	AV
15900	45.82	5.29	H	51.11	73.98	22.87	PK
15900	32.00	5.29	H	37.29	53.98	16.69	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	47.63	4.82	V	52.45	73.98	21.53	PK
10640	33.85	4.82	V	38.67	53.98	15.31	AV
15960	45.78	4.71	V	50.49	73.98	23.49	PK
15960	32.11	4.71	V	36.82	53.98	17.16	AV
10640	48.54	4.82	H	53.36	73.98	20.62	PK
10640	34.13	4.82	H	38.95	53.98	15.03	AV
15960	46.02	4.71	H	50.73	73.98	23.25	PK
15960	32.48	4.71	H	37.19	53.98	16.79	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	46.64	4.61	V	51.25	73.98	22.73	PK
11000	33.27	4.61	V	37.88	53.98	16.10	AV
16500	45.68	7.08	V	52.76	68.20	15.44	PK
11000	45.96	4.61	H	50.57	73.98	23.41	PK
11000	33.12	4.61	H	37.73	53.98	16.25	AV
16500	44.69	7.08	H	51.77	68.20	16.43	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	48.33	4.21	V	52.54	73.98	21.44	PK
11200	33.98	4.21	V	38.19	53.98	15.79	AV
16800	44.94	9.01	V	53.95	68.20	14.25	PK
11200	48.05	4.21	H	52.26	73.98	21.72	PK
11200	33.13	4.21	H	37.34	53.98	16.64	AV
16800	44.83	9.01	H	53.84	68.20	14.36	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	46.90	4.60	V	51.50	73.98	22.48	PK
11440	33.81	4.60	V	38.41	53.98	15.57	AV
17160	46.22	9.39	V	55.61	68.20	12.59	PK
11440	46.47	4.60	H	51.07	73.98	22.91	PK
11440	33.27	4.60	H	37.87	53.98	16.11	AV
17160	45.89	9.39	H	55.28	68.20	12.92	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	47.44	4.40	V	51.84	73.98	22.14	PK
11490	33.25	4.40	V	37.65	53.98	16.33	AV
17235	45.31	10.06	V	55.37	68.20	12.83	PK
11490	47.39	4.40	H	51.79	73.98	22.19	PK
11490	33.20	4.40	H	37.60	53.98	16.38	AV
17235	44.98	10.06	H	55.04	68.20	13.16	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	46.39	5.13	V	51.52	73.98	22.46	PK
11570	33.03	5.13	V	38.16	53.98	15.82	AV
17355	45.45	10.65	V	56.10	68.20	12.10	PK
11570	46.28	5.13	H	51.41	73.98	22.57	PK
11570	32.99	5.13	H	38.12	53.98	15.86	AV
17355	45.26	10.65	H	55.91	68.20	12.29	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	45.91	4.40	V	50.31	73.98	23.67	PK
11650	32.46	4.40	V	36.86	53.98	17.12	AV
17475	46.48	10.73	V	57.21	68.20	10.99	PK
11650	46.39	4.40	H	50.79	73.98	23.19	PK
11650	33.07	4.40	H	37.47	53.98	16.51	AV
17475	46.90	10.73	H	57.63	68.20	10.57	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10360	46.65	4.71	V	51.36	68.20	16.84	PK
15540	45.24	5.57	V	50.81	73.98	23.17	PK
15540	32.18	5.57	V	37.75	53.98	16.23	AV
10360	48.07	4.71	H	52.78	68.20	15.42	PK
15540	45.95	5.57	H	51.52	73.98	22.46	PK
15540	32.36	5.57	H	37.93	53.98	16.05	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	46.66	4.43	V	51.09	68.20	17.11	PK
15600	45.94	4.77	V	50.71	73.98	23.27	PK
15600	31.33	4.77	V	36.10	53.98	17.88	AV
10400	47.54	4.43	H	51.97	68.20	16.23	PK
15600	46.50	4.77	H	51.27	73.98	22.71	PK
15600	32.71	4.77	H	37.48	53.98	16.50	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10480	46.58	4.84	V	51.42	68.20	16.78	PK
15720	46.22	3.99	V	50.21	73.98	23.77	PK
15720	32.51	3.99	V	36.50	53.98	17.48	AV
10480	46.95	4.84	H	51.79	68.20	16.41	PK
15720	46.41	3.99	H	50.40	73.98	23.58	PK
15720	32.77	3.99	H	36.76	53.98	17.22	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10520	47.26	4.58	V	51.84	68.20	16.36	PK
15780	45.92	4.55	V	50.47	73.98	23.51	PK
15780	31.89	4.55	V	36.44	53.98	17.54	AV
10520	48.18	4.58	H	52.76	68.20	15.44	PK
15780	46.19	4.55	H	50.74	73.98	23.24	PK
15780	32.52	4.55	H	37.07	53.98	16.91	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	48.77	4.79	V	53.56	73.98	20.42	PK
10600	34.47	4.79	V	39.26	53.98	14.72	AV
15900	45.09	5.29	V	50.38	73.98	23.60	PK
15900	32.33	5.29	V	37.62	53.98	16.36	AV
10600	49.20	4.79	H	53.99	73.98	19.99	PK
10600	34.63	4.79	H	39.42	53.98	14.56	AV
15900	45.98	5.29	H	51.27	73.98	22.71	PK
15900	32.31	5.29	H	37.60	53.98	16.38	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10640	46.46	4.82	V	51.28	73.98	22.70	PK
10640	33.59	4.82	V	38.41	53.98	15.57	AV
15960	46.28	4.71	V	50.99	73.98	22.99	PK
15960	32.14	4.71	V	36.85	53.98	17.13	AV
10640	47.86	4.82	H	52.68	73.98	21.30	PK
10640	34.11	4.82	H	38.93	53.98	15.05	AV
15960	46.65	4.71	H	51.36	73.98	22.62	PK
15960	32.51	4.71	H	37.22	53.98	16.76	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	46.81	4.61	V	51.42	73.98	22.56	PK
11000	33.29	4.61	V	37.90	53.98	16.08	AV
16500	45.19	7.08	V	52.27	68.20	15.93	PK
11000	46.17	4.61	H	50.78	73.98	23.20	PK
11000	33.08	4.61	H	37.69	53.98	16.29	AV
16500	45.06	7.08	H	52.14	68.20	16.06	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	47.76	4.21	V	51.97	73.98	22.01	PK
11200	33.90	4.21	V	38.11	53.98	15.87	AV
16800	44.87	9.01	V	53.88	68.20	14.32	PK
11200	47.18	4.21	H	51.39	73.98	22.59	PK
11200	33.47	4.21	H	37.68	53.98	16.30	AV
16800	44.02	9.01	H	53.03	68.20	15.17	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11440	47.21	4.60	V	51.81	73.98	22.17	PK
11440	33.71	4.60	V	38.31	53.98	15.67	AV
17160	45.67	9.39	V	55.06	68.20	13.14	PK
11440	47.03	4.60	H	51.63	73.98	22.35	PK
11440	33.29	4.60	H	37.89	53.98	16.09	AV
17160	45.17	9.39	H	54.56	68.20	13.64	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11490	46.93	4.40	V	51.33	73.98	22.65	PK
11490	33.26	4.40	V	37.66	53.98	16.32	AV
17235	46.06	10.06	V	56.12	68.20	12.08	PK
11490	46.31	4.40	H	50.71	73.98	23.27	PK
11490	33.06	4.40	H	37.46	53.98	16.52	AV
17235	45.92	10.06	H	55.98	68.20	12.22	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	47.18	5.13	V	52.31	73.98	21.67	PK
11570	33.38	5.13	V	38.51	53.98	15.47	AV
17355	45.71	10.65	V	56.36	68.20	11.84	PK
11570	46.85	5.13	H	51.98	73.98	22.00	PK
11570	32.96	5.13	H	38.09	53.98	15.89	AV
17355	45.63	10.65	H	56.28	68.20	11.92	PK

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

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11650	46.17	4.40	V	50.57	73.98	23.41	PK
11650	33.08	4.40	V	37.48	53.98	16.50	AV
17475	46.24	10.73	V	56.97	68.20	11.23	PK
11650	46.52	4.40	H	50.92	73.98	23.06	PK
11650	33.12	4.40	H	37.52	53.98	16.46	AV
17475	46.64	10.73	H	57.37	68.20	10.83	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	47.03	4.71	V	51.74	68.20	16.46	PK
15570	46.27	4.94	V	51.21	73.98	22.77	PK
15570	33.21	4.94	V	38.15	53.98	15.83	AV
10380	47.27	4.71	H	51.98	68.20	16.22	PK
15570	46.53	4.94	H	51.47	73.98	22.51	PK
15570	33.64	4.94	H	38.58	53.98	15.40	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	46.98	4.89	V	51.87	68.20	16.33	PK
15690	46.28	4.13	V	50.41	73.98	23.57	PK
15690	33.33	4.13	V	37.46	53.98	16.52	AV
10460	47.41	4.89	H	52.30	68.20	15.90	PK
15690	46.65	4.13	H	50.78	73.98	23.20	PK
15690	33.42	4.13	H	37.55	53.98	16.43	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	46.86	4.68	V	51.54	68.20	16.66	PK
15810	46.21	5.20	V	51.41	73.98	22.57	PK
15810	33.09	5.20	V	38.29	53.98	15.69	AV
10540	47.37	4.68	H	52.05	68.20	16.15	PK
15810	46.24	5.20	H	51.44	73.98	22.54	PK
15810	33.27	5.20	H	38.47	53.98	15.51	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	47.36	5.37	V	52.73	73.98	21.25	PK
10620	34.63	5.37	V	40.00	53.98	13.98	AV
15930	45.66	4.96	V	50.62	73.98	23.36	PK
15930	32.27	4.96	V	37.23	53.98	16.75	AV
10620	48.00	5.37	H	53.37	73.98	20.61	PK
10620	34.71	5.37	H	40.08	53.98	13.90	AV
15930	45.86	4.96	H	50.82	73.98	23.16	PK
15930	32.82	4.96	H	37.78	53.98	16.20	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	47.48	4.84	V	52.32	73.98	21.66	PK
11020	34.72	4.84	V	39.56	53.98	14.42	AV
16530	45.92	7.31	V	53.23	68.20	14.97	PK
11020	46.93	4.84	H	51.77	73.98	22.21	PK
11020	33.93	4.84	H	38.77	53.98	15.21	AV
16530	45.37	7.31	H	52.68	68.20	15.52	PK

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 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	47.86	4.53	V	52.39	73.98	21.59	PK
11180	34.73	4.53	V	39.26	53.98	14.72	AV
16770	45.19	9.07	V	54.26	68.20	13.94	PK
11180	47.74	4.53	H	52.27	73.98	21.71	PK
11180	34.59	4.53	H	39.12	53.98	14.86	AV
16770	44.22	9.07	H	53.29	68.20	14.91	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	47.27	4.88	V	52.15	73.98	21.83	PK
11420	34.28	4.88	V	39.16	53.98	14.82	AV
17130	45.90	9.05	V	54.95	68.20	13.25	PK
11420	46.50	4.88	H	51.38	73.98	22.60	PK
11420	33.58	4.88	H	38.46	53.98	15.52	AV
17130	44.59	9.05	H	53.64	68.20	14.56	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	46.62	4.41	V	51.03	73.98	22.95	PK
11510	33.80	4.41	V	38.21	53.98	15.77	AV
17265	46.42	10.08	V	56.50	68.20	11.70	PK
11510	46.27	4.41	H	50.68	73.98	23.30	PK
11510	32.47	4.41	H	36.88	53.98	17.10	AV
17265	46.25	10.08	H	56.33	68.20	11.87	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	46.68	4.75	V	51.43	73.98	22.55	PK
11590	33.47	4.75	V	38.22	53.98	15.76	AV
17385	46.22	10.52	V	56.74	68.20	11.46	PK
11590	47.05	4.75	H	51.80	73.98	22.18	PK
11590	33.61	4.75	H	38.36	53.98	15.62	AV
17385	46.71	10.52	H	57.23	68.20	10.97	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10380	47.56	4.71	V	52.27	68.20	15.93	PK
15570	46.73	4.94	V	51.67	73.98	22.31	PK
15570	33.18	4.94	V	38.12	53.98	15.86	AV
10380	47.68	4.71	H	52.39	68.20	15.81	PK
15570	46.91	4.94	H	51.85	73.98	22.13	PK
15570	33.30	4.94	H	38.24	53.98	15.74	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10460	47.21	4.89	V	52.10	68.20	16.10	PK
15690	45.98	4.13	V	50.11	73.98	23.87	PK
15690	33.45	4.13	V	37.58	53.98	16.40	AV
10460	47.42	4.89	H	52.31	68.20	15.89	PK
15690	46.27	4.13	H	50.40	73.98	23.58	PK
15690	33.67	4.13	H	37.80	53.98	16.18	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10540	47.55	4.68	V	52.23	68.20	15.97	PK
15810	47.26	5.20	V	52.46	73.98	21.52	PK
15810	34.28	5.20	V	39.48	53.98	14.50	AV
10540	47.29	4.68	H	51.97	68.20	16.23	PK
15810	47.67	5.20	H	52.87	73.98	21.11	PK
15810	34.47	5.20	H	39.67	53.98	14.31	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10620	47.58	5.37	V	52.95	73.98	21.03	PK
10620	34.28	5.37	V	39.65	53.98	14.33	AV
15930	45.92	4.96	V	50.88	73.98	23.10	PK
15930	32.19	4.96	V	37.15	53.98	16.83	AV
10620	47.91	5.37	H	53.28	73.98	20.70	PK
10620	34.57	5.37	H	39.94	53.98	14.04	AV
15930	46.00	4.96	H	50.96	73.98	23.02	PK
15930	32.78	4.96	H	37.74	53.98	16.24	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11020	46.84	4.84	V	51.68	73.98	22.30	PK
11020	34.35	4.84	V	39.19	53.98	14.79	AV
16530	46.05	7.31	V	53.36	68.20	14.84	PK
11020	46.76	4.84	H	51.60	73.98	22.38	PK
11020	33.58	4.84	H	38.42	53.98	15.56	AV
16530	45.93	7.31	H	53.24	68.20	14.96	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 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	48.15	4.53	V	52.68	73.98	21.30	PK
11180	35.18	4.53	V	39.71	53.98	14.27	AV
16770	44.97	9.07	V	54.04	68.20	14.16	PK
11180	47.99	4.53	H	52.52	73.98	21.46	PK
11180	34.69	4.53	H	39.22	53.98	14.76	AV
16770	44.67	9.07	H	53.74	68.20	14.46	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11420	47.25	4.88	V	52.13	73.98	21.85	PK
11420	34.63	4.88	V	39.51	53.98	14.47	AV
17130	46.20	9.05	V	55.25	68.20	12.95	PK
11420	46.21	4.88	H	51.09	73.98	22.89	PK
11420	34.36	4.88	H	39.24	53.98	14.74	AV
17130	45.89	9.05	H	54.94	68.20	13.26	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]	A.F.+C.L.- A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11510	46.86	4.41	V	51.27	73.98	22.71	PK
11510	33.79	4.41	V	38.20	53.98	15.78	AV
17265	45.72	10.08	V	55.80	68.20	12.40	PK
11510	46.58	4.41	H	50.99	73.98	22.99	PK
11510	33.47	4.41	H	37.88	53.98	16.10	AV
17265	45.68	10.08	H	55.76	68.20	12.44	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]	A.F.+C.L.- -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11590	46.17	4.75	V	50.92	73.98	23.06	PK
11590	33.21	4.75	V	37.96	53.98	16.02	AV
17385	46.01	10.52	V	56.53	68.20	11.67	PK
11590	46.61	4.75	H	51.36	73.98	22.62	PK
11590	33.36	4.75	H	38.11	53.98	15.87	AV
17385	46.06	10.52	H	56.58	68.20	11.62	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10420	47.31	4.18	V	51.49	68.20	16.71	PK
15630	46.28	4.50	V	50.78	73.98	23.20	PK
15630	35.21	4.50	V	39.71	53.98	14.27	AV
10420	47.44	4.18	H	51.62	68.20	16.58	PK
15630	46.75	4.50	H	51.25	73.98	22.73	PK
15630	35.45	4.50	H	39.95	53.98	14.03	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
10580	47.85	4.56	V	52.41	68.20	15.79	PK
15870	46.55	5.89	V	52.44	73.98	21.54	PK
15870	34.69	5.89	V	40.58	53.98	13.40	AV
10580	47.94	4.56	H	52.50	68.20	15.70	PK
15870	46.71	5.89	H	52.60	73.98	21.38	PK
15870	34.78	5.89	H	40.67	53.98	13.31	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11060	47.37	5.10	V	52.47	73.98	21.51	PK
11060	35.87	5.10	V	40.97	53.98	13.01	AV
16590	46.01	7.84	V	53.85	68.20	14.35	PK
11060	47.26	5.10	H	52.36	73.98	21.62	PK
11060	35.48	5.10	H	40.58	53.98	13.40	AV
16590	45.83	7.84	H	53.67	68.20	14.53	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5610 MHz
 Channel No. 122 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
11220	47.49	4.56	V	52.05	73.98	21.93	PK
11220	35.86	4.56	V	40.42	53.98	13.56	AV
16830	45.15	9.45	V	54.60	68.20	13.60	PK
11220	47.39	4.56	H	51.95	73.98	22.03	PK
11220	35.33	4.56	H	39.89	53.98	14.09	AV
16830	44.98	9.45	H	54.43	68.20	13.77	PK

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5690 MHz
 Channel No. 138 Ch

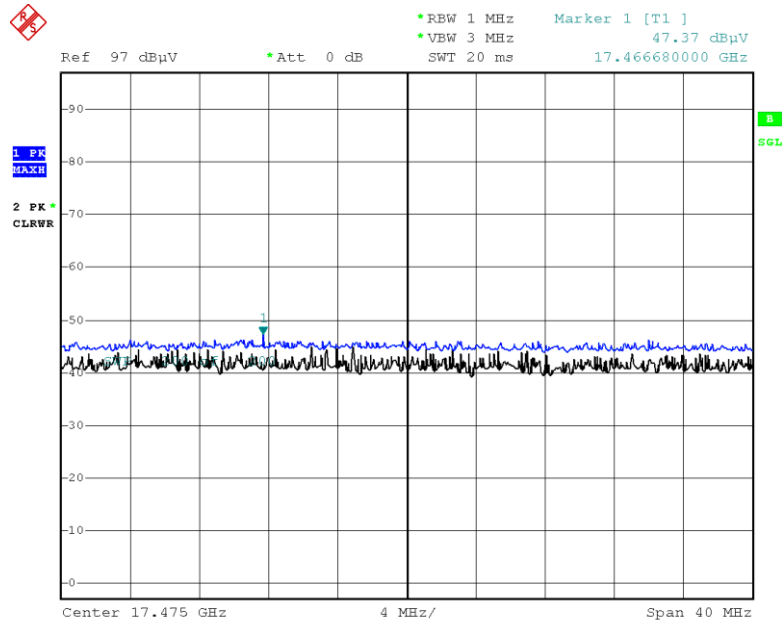
Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	47.06	4.70	V	51.76	73.98	22.22	PK
11380	35.66	4.70	V	40.36	53.98	13.62	AV
17070	45.53	9.53	V	55.06	68.20	13.14	PK
11380	46.65	4.70	H	51.35	73.98	22.63	PK
11380	35.49	4.70	H	40.19	53.98	13.79	AV
17070	45.16	9.53	H	54.69	68.20	13.51	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11550	47.41	4.89	V	52.30	73.98	21.68	PK
11550	35.28	4.89	V	40.17	53.98	13.81	AV
17325	45.58	10.86	V	56.44	68.20	11.76	PK
11550	47.23	4.89	H	52.12	73.98	21.86	PK
11550	35.11	4.89	H	40.00	53.98	13.98	AV
17325	45.29	10.86	H	56.15	68.20	12.05	PK

▣ Test Plots

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



Date: 25.MAY.2020 04:12:07

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	46.41	11.88	H	58.29	73.98	15.69	PK
5150	34.28	11.88	H	46.16	53.98	7.82	AV
5150	45.17	11.88	V	57.05	73.98	16.93	PK
5150	32.75	11.88	V	44.63	53.98	9.35	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	47.07	12.17	H	59.24	73.98	14.74	PK
5350	32.73	12.17	H	44.90	53.98	9.08	AV
5350	45.96	12.17	V	58.13	73.98	15.85	PK
5350	31.28	12.17	V	43.45	53.98	10.53	AV

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

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	43.35	12.57	H	55.92	73.98	18.06	PK
5460	30.21	12.57	H	42.78	53.98	11.20	AV
5470	45.69	12.75	H	58.44	68.20	9.76	PK
5460	42.87	12.57	V	55.44	73.98	18.54	PK
5460	29.95	12.57	V	42.52	53.98	11.46	AV
5470	44.69	12.75	V	57.44	68.20	10.76	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	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5150	46.87	11.88	H	58.75	73.98	15.23	PK
5150	34.28	11.88	H	46.16	53.98	7.82	AV
5150	45.73	11.88	V	57.61	73.98	16.37	PK
5150	32.46	11.88	V	44.34	53.98	9.64	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5350	45.14	12.17	H	57.31	73.98	16.67	PK
5350	31.82	12.17	H	43.99	53.98	9.99	AV
5350	44.95	12.17	V	57.12	73.98	16.86	PK
5350	31.22	12.17	V	43.39	53.98	10.59	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	43.97	12.57	H	56.54	73.98	17.44	PK
5460	30.85	12.57	H	43.42	53.98	10.56	AV
5470	48.18	12.75	H	60.93	68.20	7.27	PK
5460	43.46	12.57	V	56.03	73.98	17.95	PK
5460	30.74	12.57	V	43.31	53.98	10.67	AV
5470	48.07	12.75	V	60.82	68.20	7.38	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	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5150	46.34	11.88	H	58.22	73.98	15.76	PK
5150	33.87	11.88	H	45.75	53.98	8.23	AV
5150	45.98	11.88	V	57.86	73.98	16.12	PK
5150	33.28	11.88	V	45.16	53.98	8.82	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5350	43.58	12.17	H	55.75	73.98	18.23	PK
5350	30.72	12.17	H	42.89	53.98	11.09	AV
5350	43.28	12.17	V	55.45	73.98	18.53	PK
5350	30.68	12.17	V	42.85	53.98	11.13	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	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	42.17	12.57	H	54.74	73.98	19.24	PK
5460	29.50	12.57	H	42.07	53.98	11.91	AV
5470	43.07	12.75	H	55.82	68.20	12.38	PK
5460	41.97	12.57	V	54.54	73.98	19.44	PK
5460	29.43	12.57	V	42.00	53.98	11.98	AV
5470	42.88	12.75	V	55.63	68.20	12.57	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	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5150	50.27	11.88	H	62.15	73.98	11.83	PK
5150	36.73	11.88	H	48.61	53.98	5.37	AV
5150	49.58	11.88	V	61.46	73.98	12.52	PK
5150	36.58	11.88	V	48.46	53.98	5.52	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5350	50.37	12.17	H	62.54	73.98	11.44	PK
5350	34.92	12.17	H	47.09	53.98	6.89	AV
5350	48.26	12.17	V	60.43	73.98	13.55	PK
5350	33.58	12.17	V	45.75	53.98	8.23	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	45.34	12.57	H	57.91	73.98	16.07	PK
5460	31.74	12.57	H	44.31	53.98	9.67	AV
5470	50.24	12.75	H	62.99	68.20	5.21	PK
5460	45.25	12.57	V	57.82	73.98	16.16	PK
5460	31.58	12.57	V	44.15	53.98	9.83	AV
5470	48.69	12.75	V	61.44	68.20	6.76	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	AN.+CL-AMP+ATT.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5150	48.23	11.88	H	60.11	73.98	13.87	PK
5150	35.58	11.88	H	47.46	53.98	6.52	AV
5150	47.65	11.88	V	59.53	73.98	14.45	PK
5150	35.22	11.88	V	47.10	53.98	6.88	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.		Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]	ANT. POL [H/V]				
5350	50.91	12.17	H	63.08	73.98	10.90	PK
5350	35.21	12.17	H	47.38	53.98	6.60	AV
5350	49.54	12.17	V	61.71	73.98	12.27	PK
5350	34.22	12.17	V	46.39	53.98	7.59	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	44.46	12.57	H	57.03	73.98	16.95	PK
5460	31.45	12.57	H	44.02	53.98	9.96	AV
5470	48.92	12.75	H	61.67	68.20	6.53	PK
5460	43.79	12.57	V	56.36	73.98	17.62	PK
5460	30.58	12.57	V	43.15	53.98	10.83	AV
5470	47.69	12.75	V	60.44	68.20	7.76	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	AN.+CL-AMP+ATT.	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]					
5150	50.71	11.88	H	62.59	73.98	11.39	PK
5150	40.07	11.88	H	51.95	53.98	2.03	AV
5150	48.25	11.88	V	60.13	73.98	13.85	PK
5150	36.98	11.88	V	48.86	53.98	5.12	AV

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

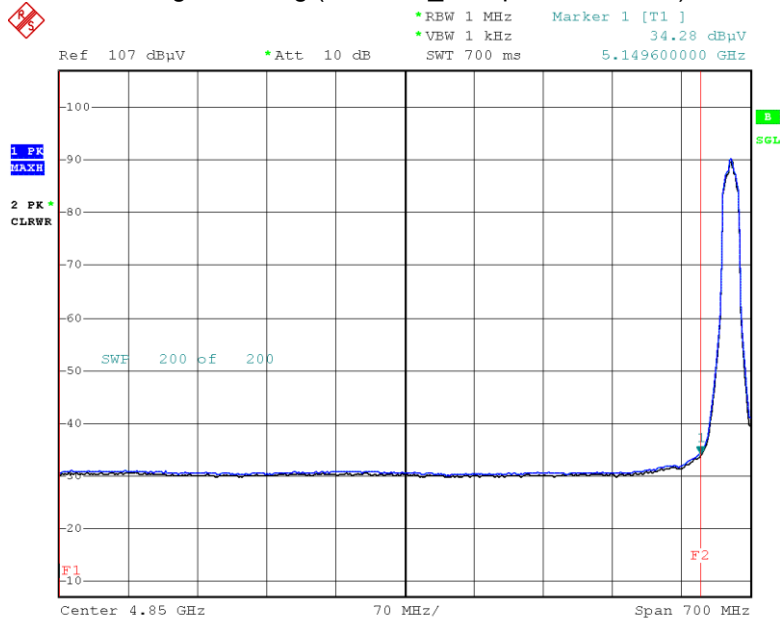
Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT.	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
		+D.F. [dB]					
5350	52.94	12.17	H	65.11	73.98	8.87	PK
5350	36.80	12.17	H	48.97	53.98	5.01	AV
5350	51.32	12.17	V	63.49	73.98	10.49	PK
5350	35.40	12.17	V	47.57	53.98	6.41	AV

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	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	46.54	12.57	H	59.11	73.98	14.87	PK
5460	35.01	12.57	H	47.58	53.98	6.40	AV
5470	50.51	12.75	H	63.26	68.20	4.94	PK
5460	45.69	12.57	V	58.26	73.98	15.72	PK
5460	34.44	12.57	V	47.01	53.98	6.97	AV
5470	48.25	12.75	V	61.00	68.20	7.20	PK

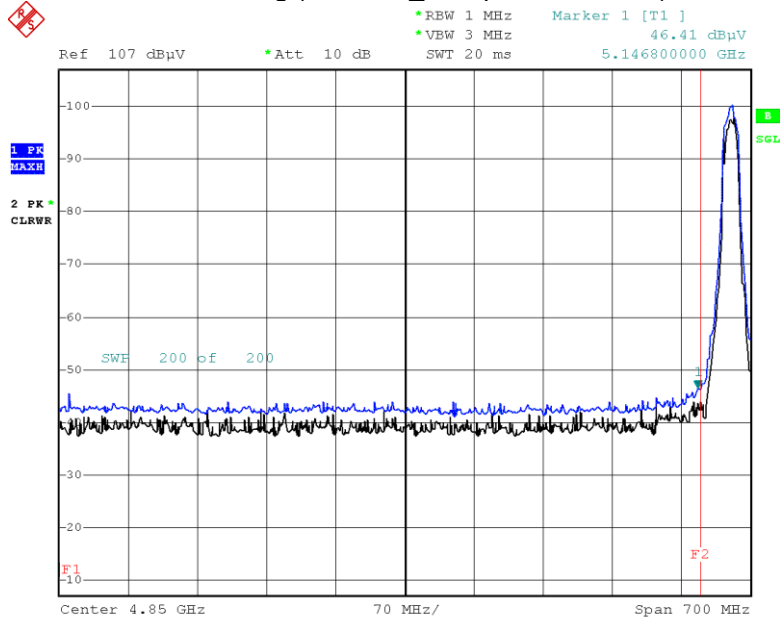
Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11 a_6 Mbps, Ch.36, X-H)



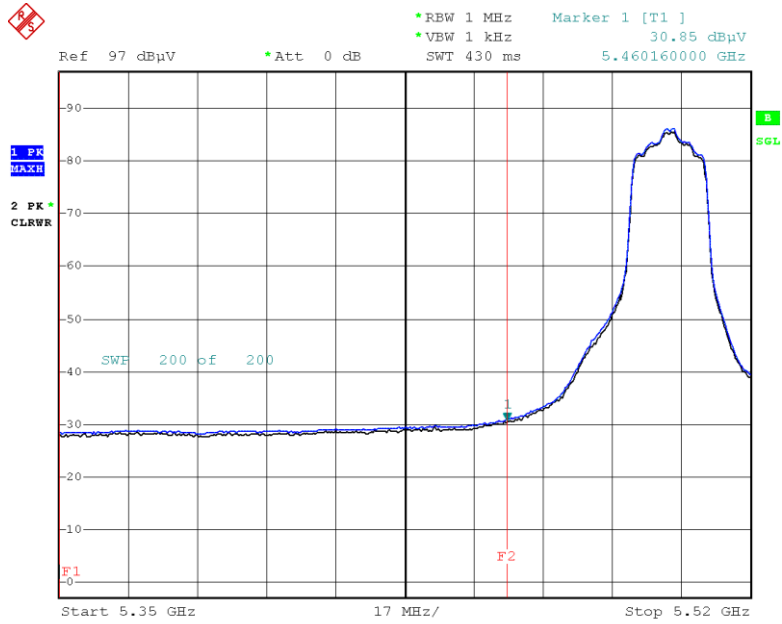
Date: 19.MAY.2020 14:56:02

Peak Reading (802.11 a_6 Mbps, Ch.36, X-H)



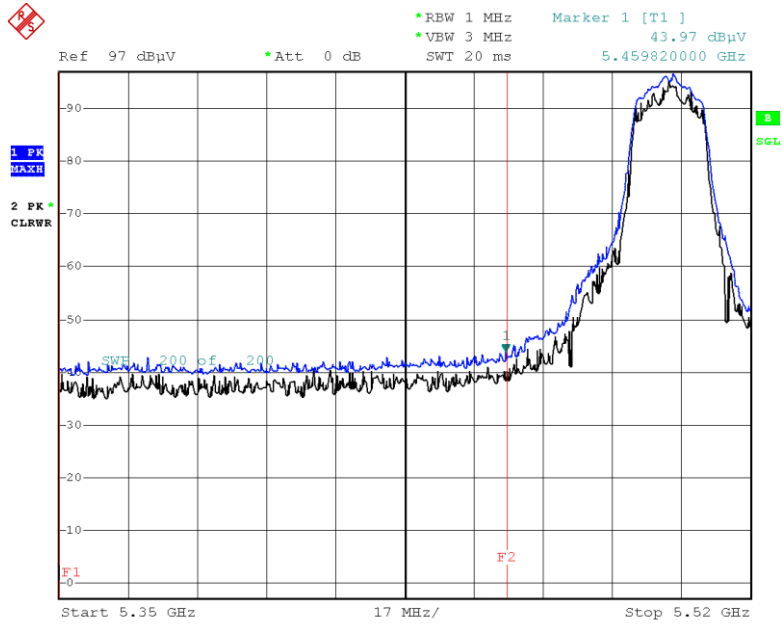
Date: 19.MAY.2020 14:56:38

Average Reading (802.11 n(HT20)_MCS0, Ch.100, X-H)



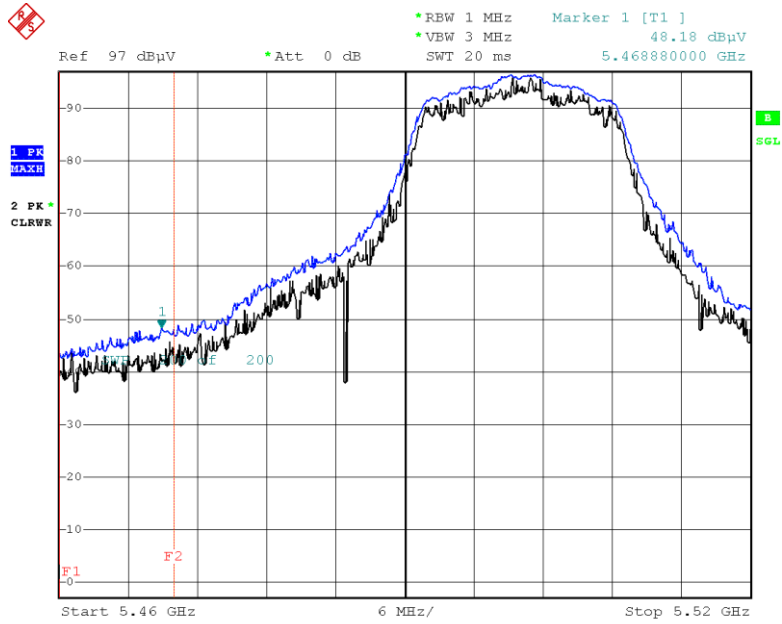
Date: 26.MAY.2020 02:03:34

Peak Reading (802.11 n(HT20)_MCS0, Ch.100, X-H)



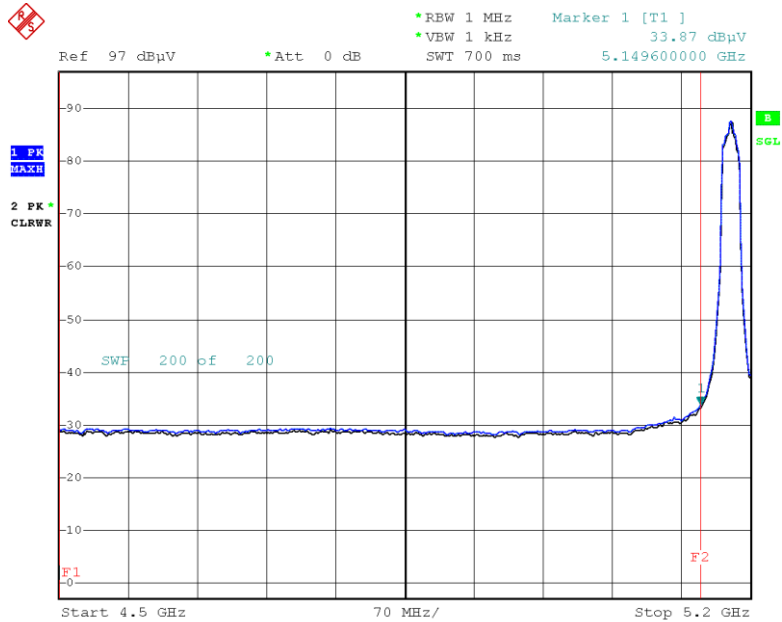
Date: 26.MAY.2020 02:03:57

Peak Reading (802.11 n(HT20)_MCS0, Ch.100, X-H)



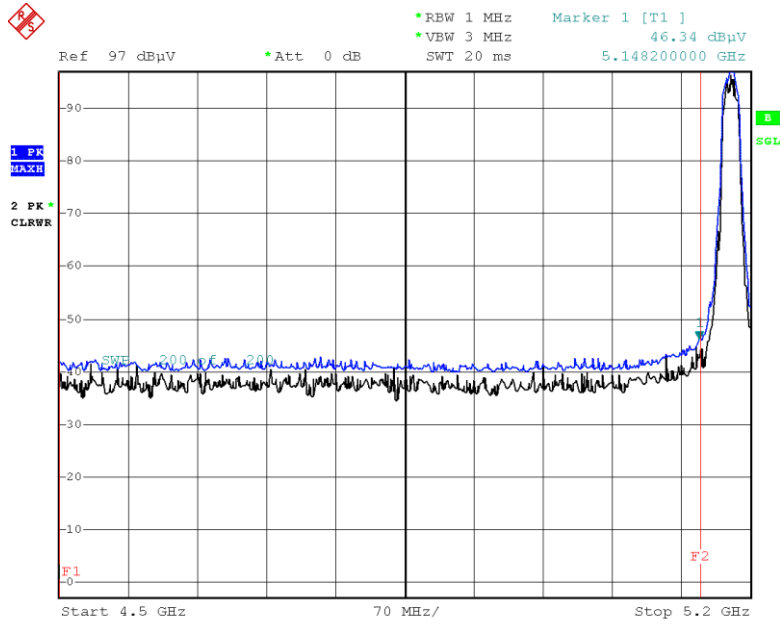
Date: 26.MAY.2020 02:04:19

Average Reading (802.11 ac(VHT20)_MCS0, Ch.36, X-H)



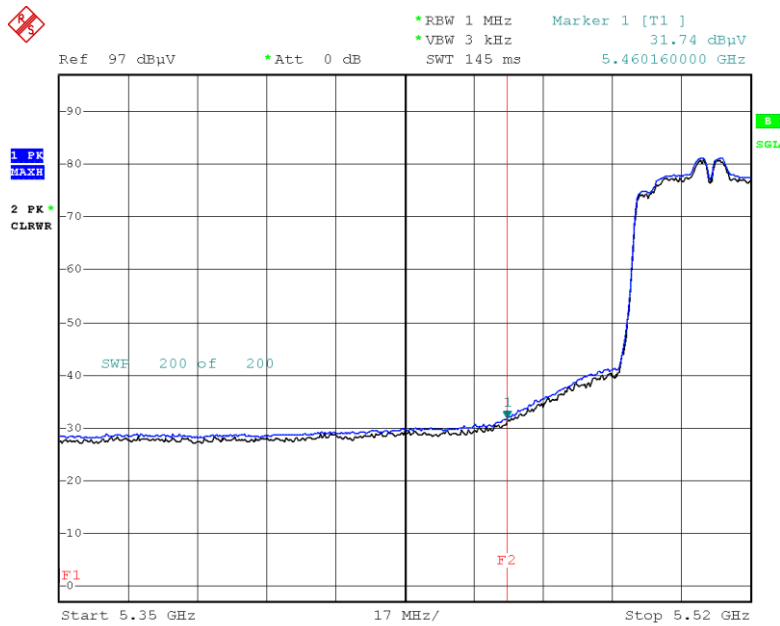
Date: 20.MAY.2020 04:00:30

Peak Reading (802.11 ac(VHT20)_MCS0, Ch.36, X-H)



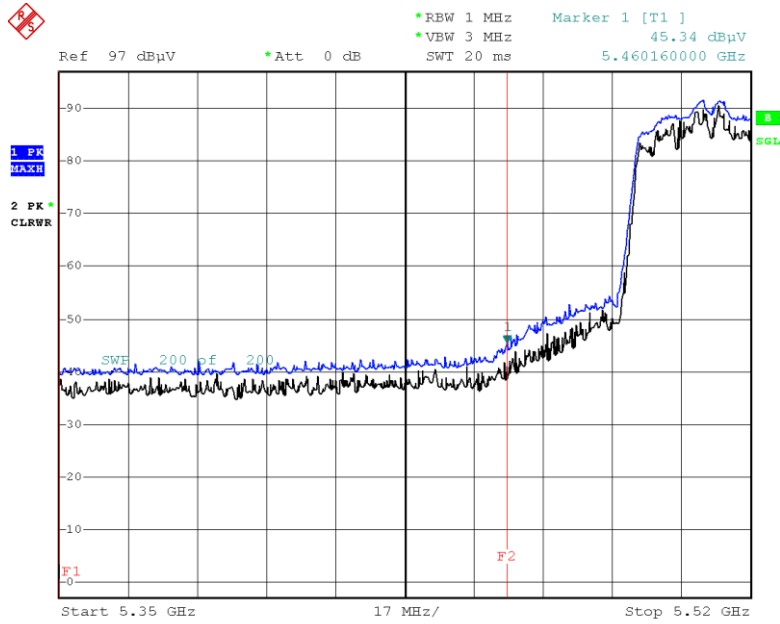
Date: 20.MAY.2020 04:01:17

Average Reading (802.11 n(HT40)_MCS0, Ch.102, X-H)



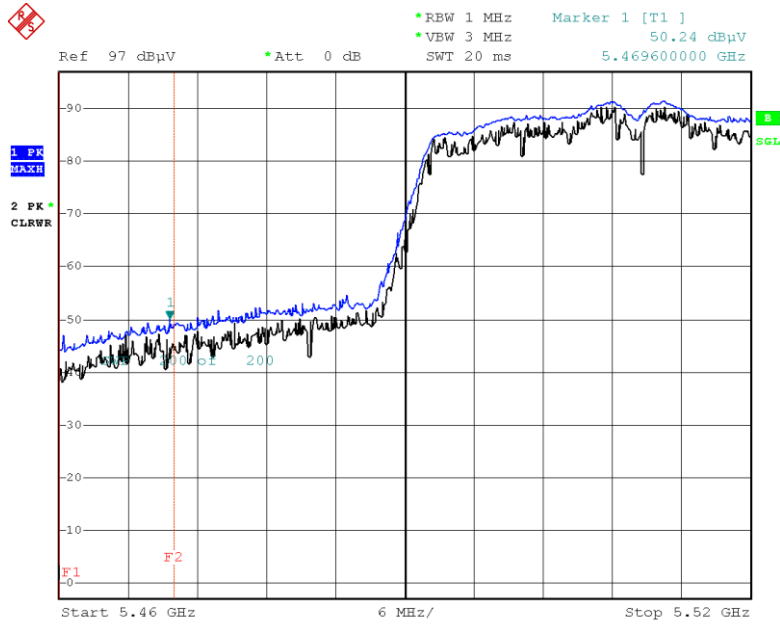
Date: 20.MAY.2020 08:34:54

Peak Reading (802.11 n(HT40)_MCS0, Ch.102, X-H)



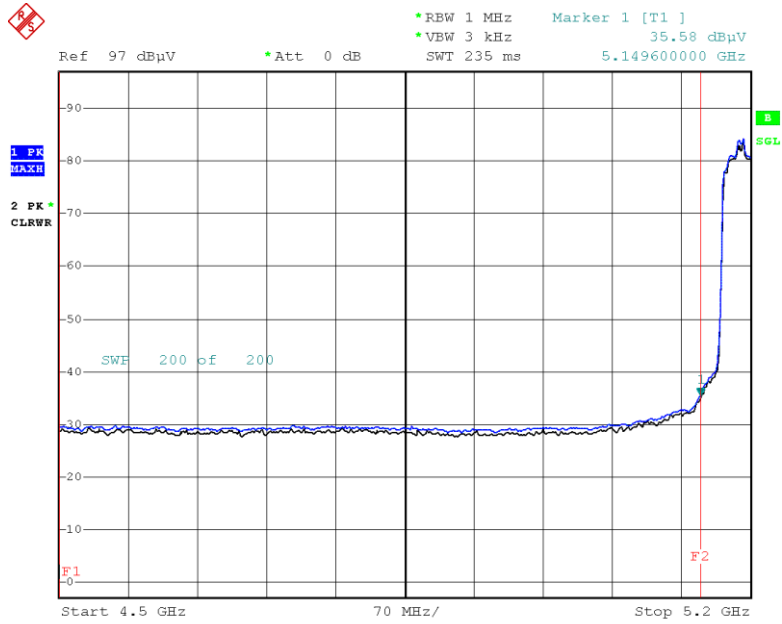
Date: 20.MAY.2020 08:35:30

Peak Reading (802.11 n(HT40)_MCS0, Ch.102, X-H)



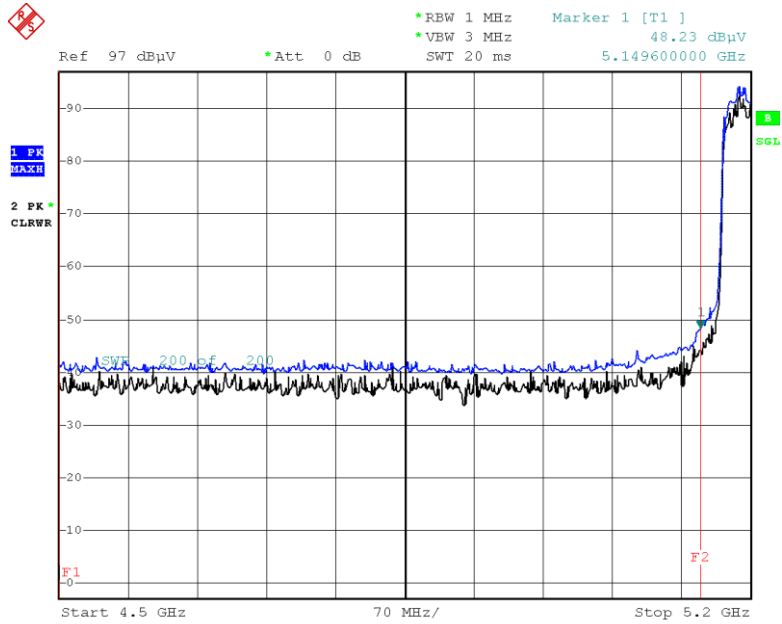
Date: 20.MAY.2020 08:35:55

Average Reading (802.11 ac(VHT40)_MCS0, Ch.38, X-H)

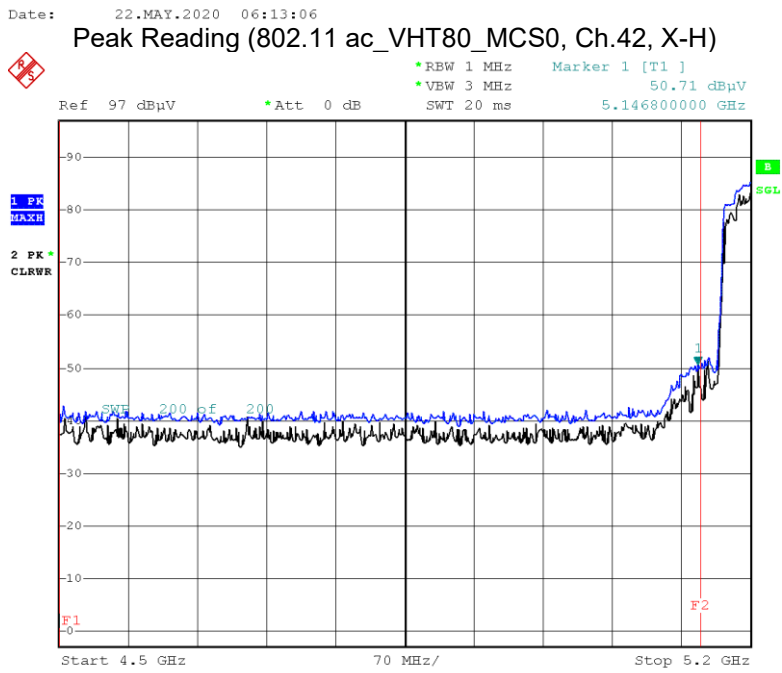
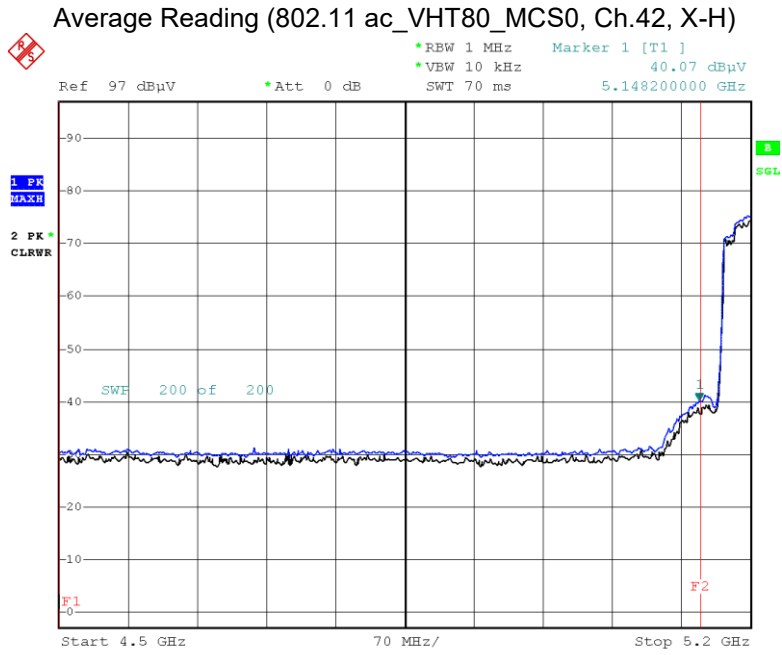


Date: 20.MAY.2020 09:11:21

Peak Reading (802.11 ac(VHT40)_MCS0, Ch.38, X-H)



Date: 20.MAY.2020 09:12:13



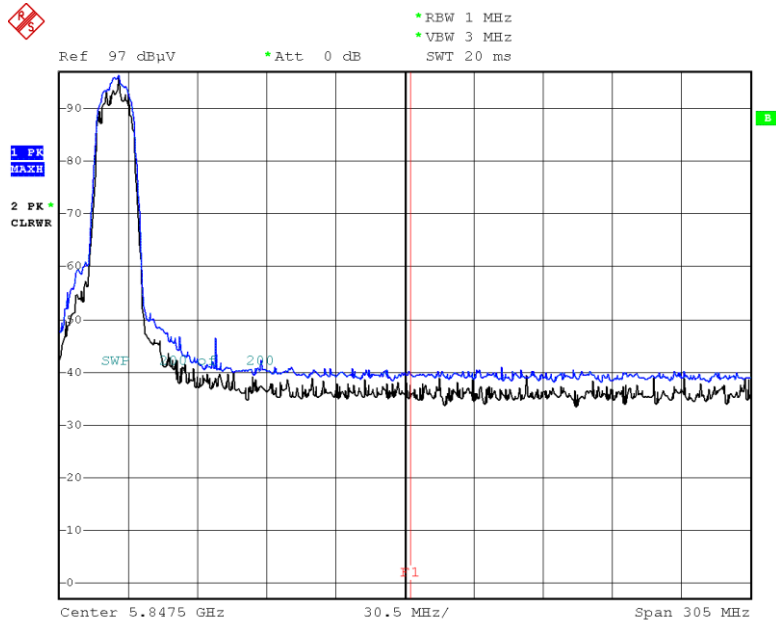
Date: 22.MAY.2020 06:13:34

Note:

Only the worst case plots for Radiated Restricted Band Edge.

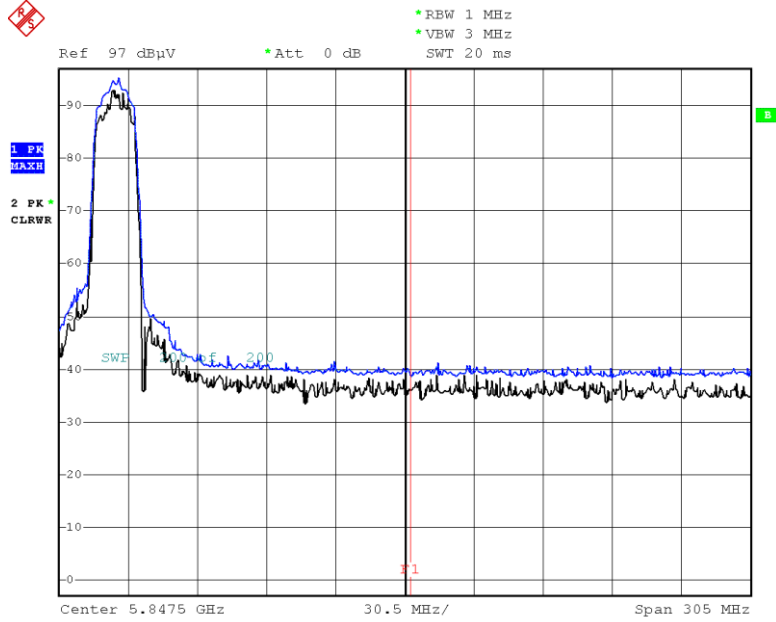
☑ Test Plots(Staraddle Channel)

Peak Reading (802.11a, Ch.144, Y-H)



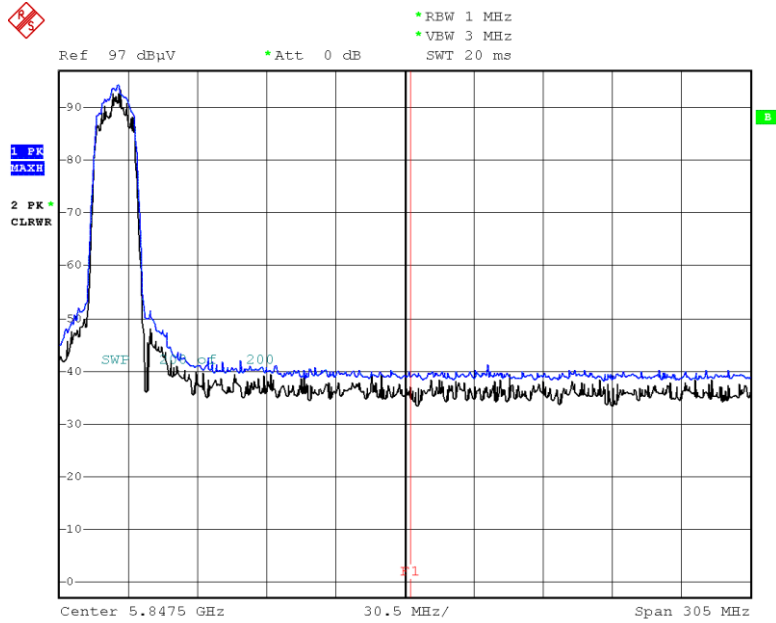
Date: 25.MAY.2020 04:22:25

Peak Reading (802.11n_HT20, Ch.144, Y-H)



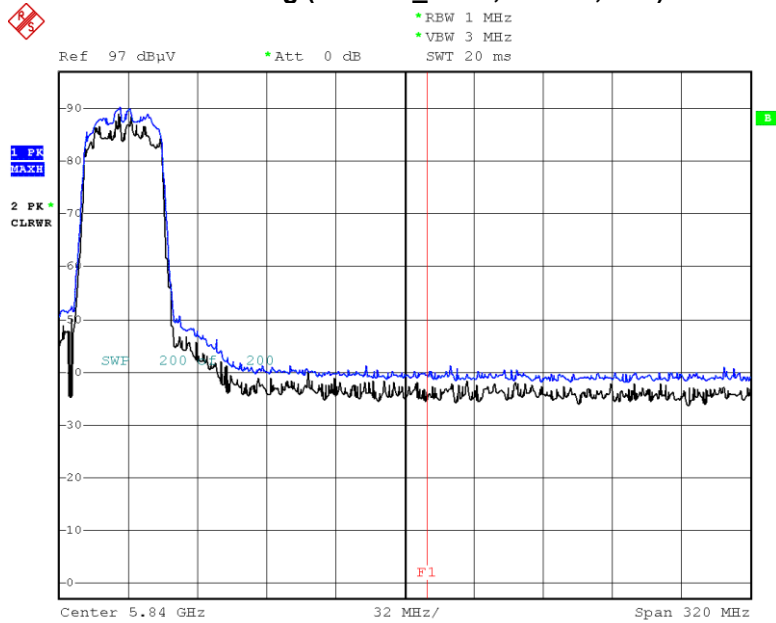
Date: 25.MAY.2020 04:24:16

Peak Reading (802.11ac_VHT20, Ch.144, Y-H)



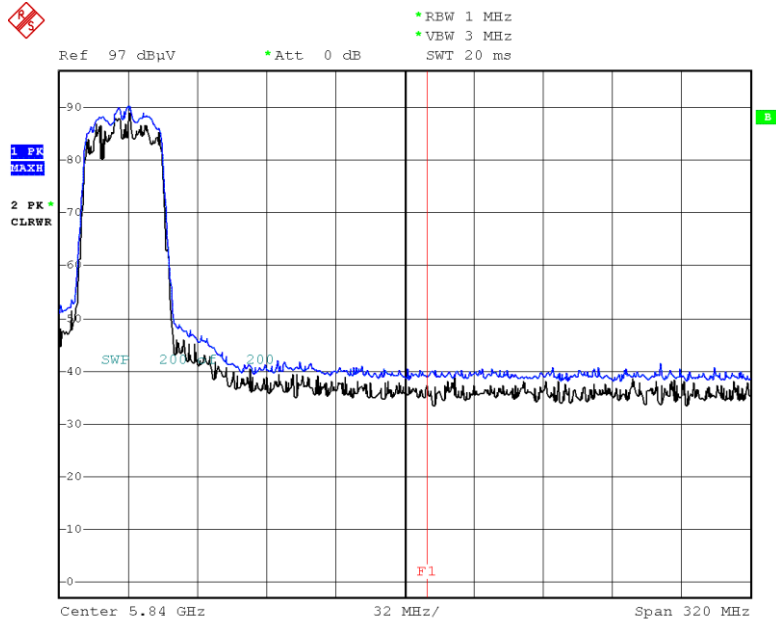
Date: 25.MAY.2020 04:25:38

Peak Reading (802.11n_HT40, Ch.142, Y-H)



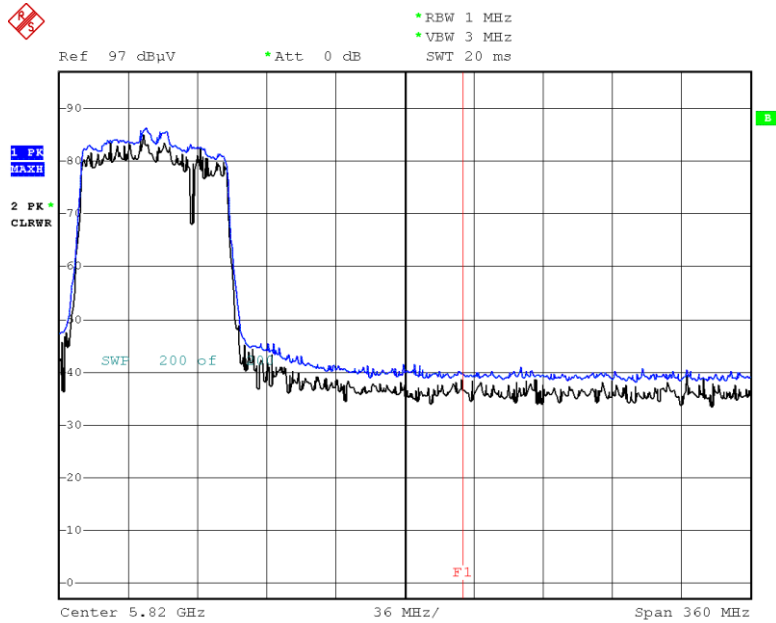
Date: 25.MAY.2020 04:27:59

Peak Reading (802.11ac_VHT40, Ch.142, Y-H)



Date: 25.MAY.2020 04:29:07

Peak Reading (802.11ac_VHT80, Ch.138, Y-H)



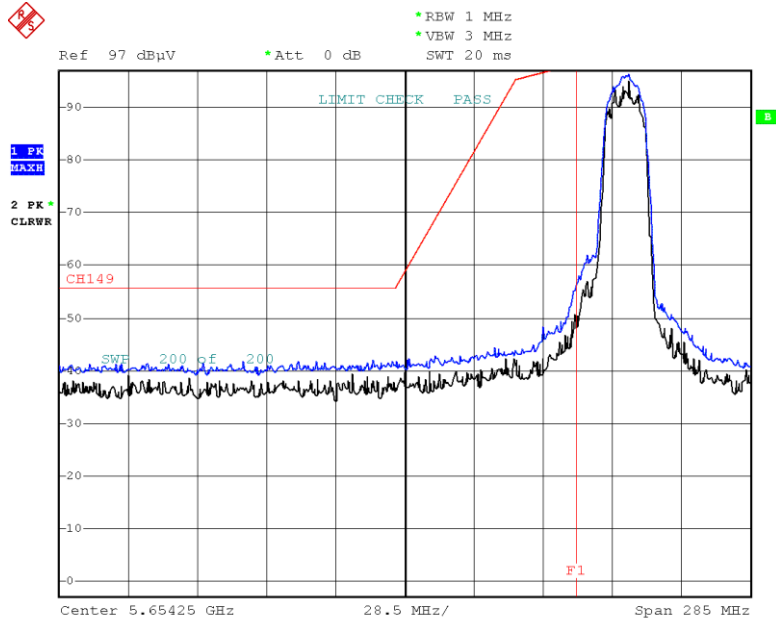
Date: 25.MAY.2020 04:30:35

Note :

1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

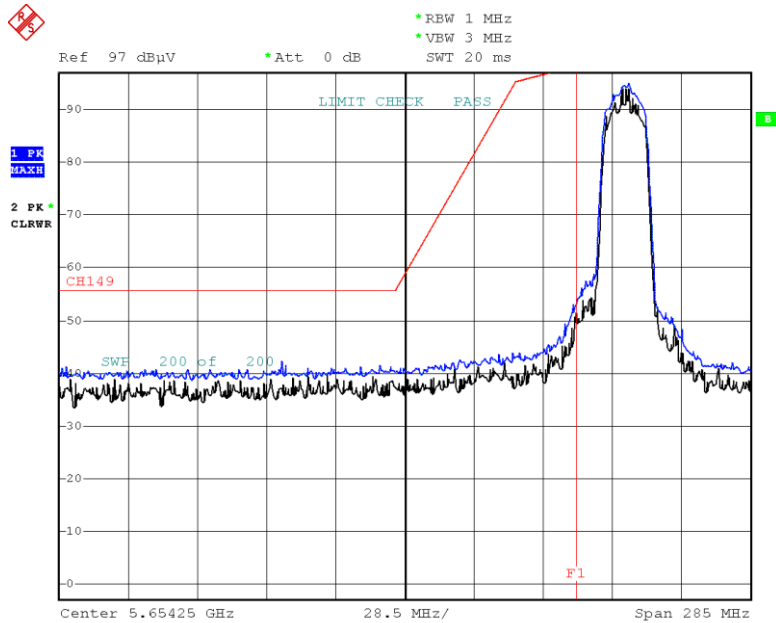
Test Plots(UNII 3)

Peak Reading (802.11a, Ch.149, Y-H)



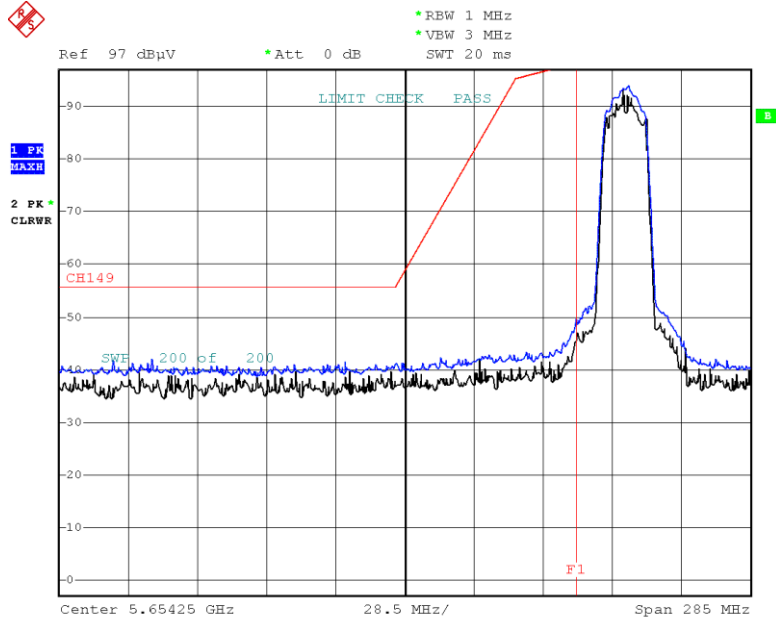
Date: 25.MAY.2020 04:39:56

Peak Reading (802.11n_HT20, Ch.149, Y-H)



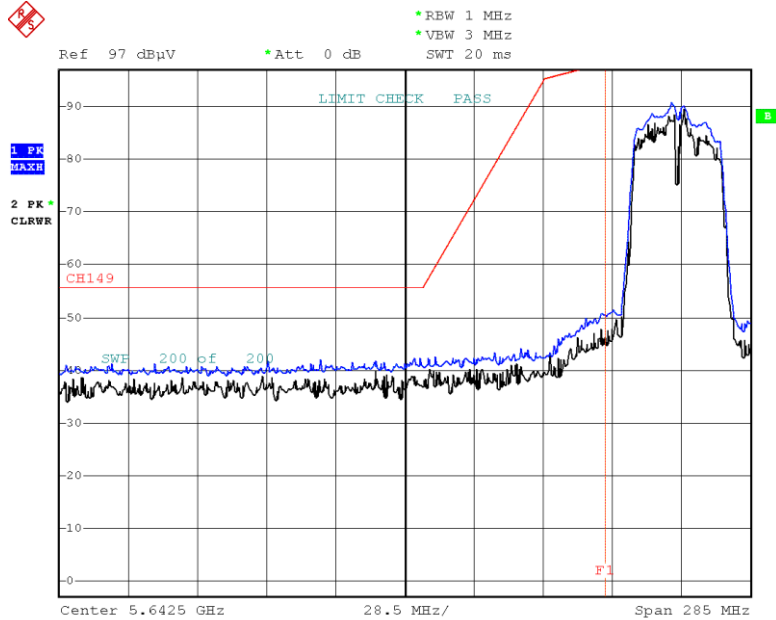
Date: 25.MAY.2020 04:42:14

Peak Reading (802.11ac_VHT20, Ch.149, Y-H)



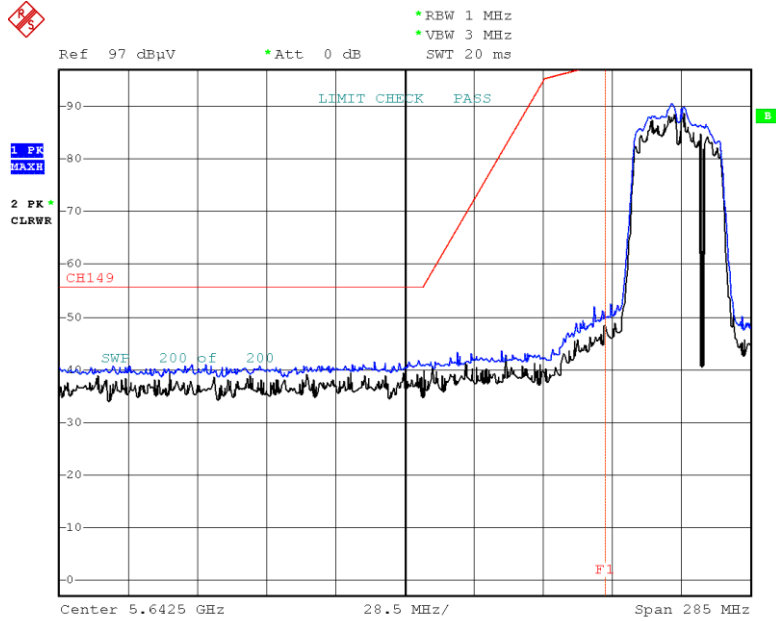
Date: 25.MAY.2020 04:44:37

Peak Reading (802.11n_HT40, Ch.151, Y-H)



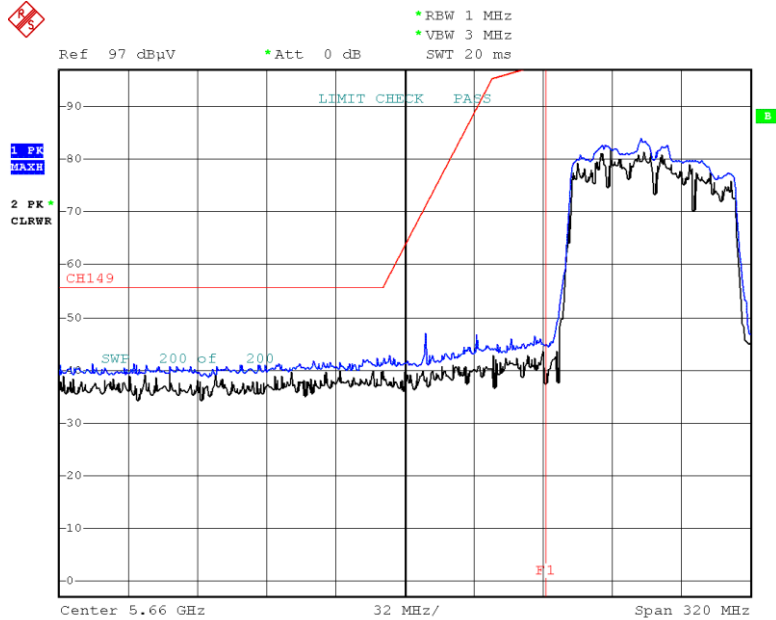
Date: 25.MAY.2020 04:59:41

Peak Reading (802.11ac_VHT40, Ch.151, Y-H)



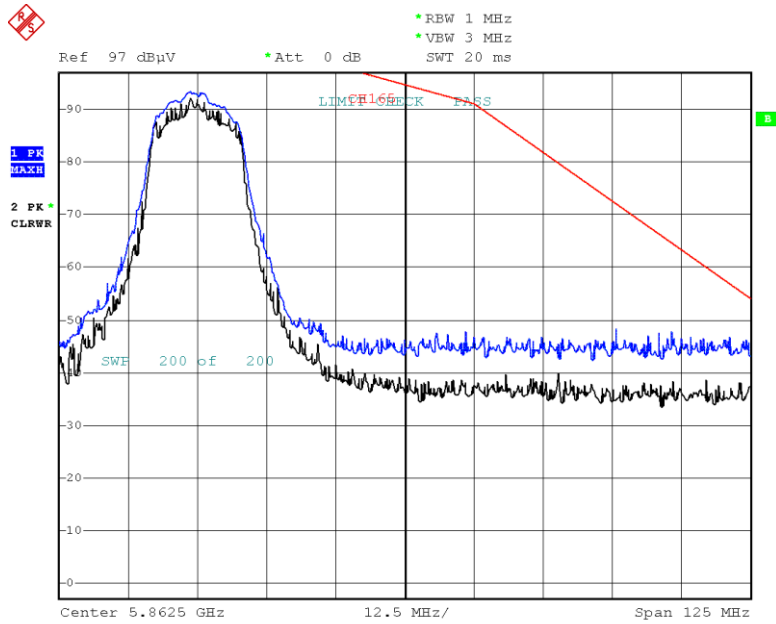
Date: 25.MAY.2020 05:01:25

Peak Reading (802.11ac_VHT80, Ch.155, Y-H)



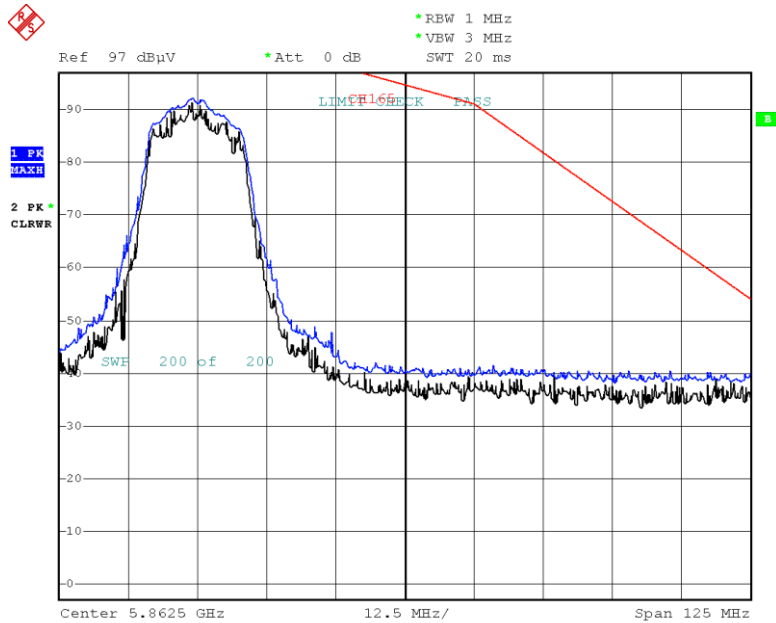
Date: 25.MAY.2020 05:07:32

Peak Reading (802.11a, Ch.165, Y-H)



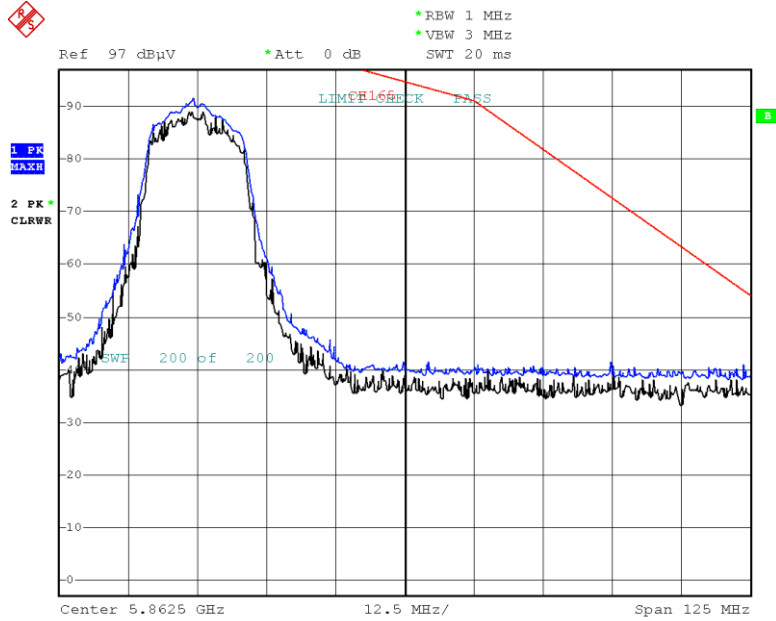
Date: 20.MAY.2020 02:55:29

Peak Reading (802.11n_HT20, Ch.165, Y-H)



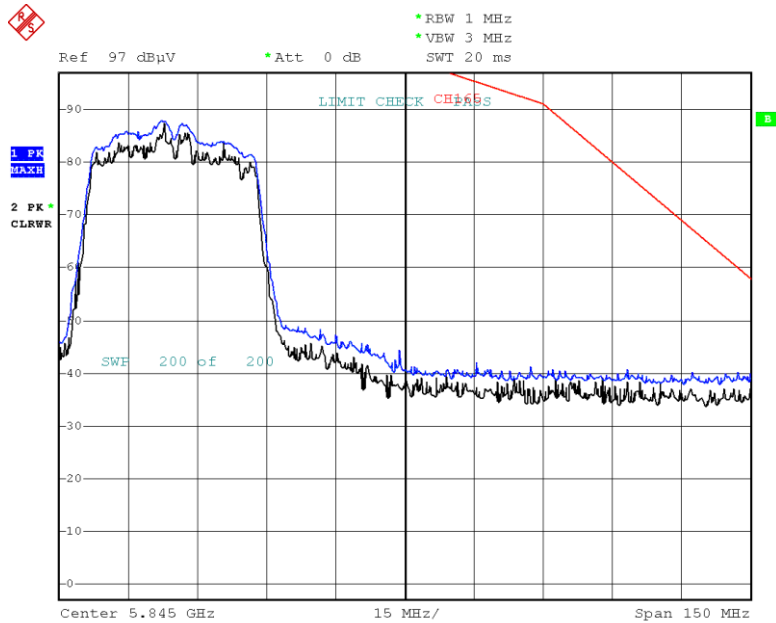
Date: 20.MAY.2020 03:19:02

Peak Reading (802.11ac_VHT20, Ch.165, Y-H)



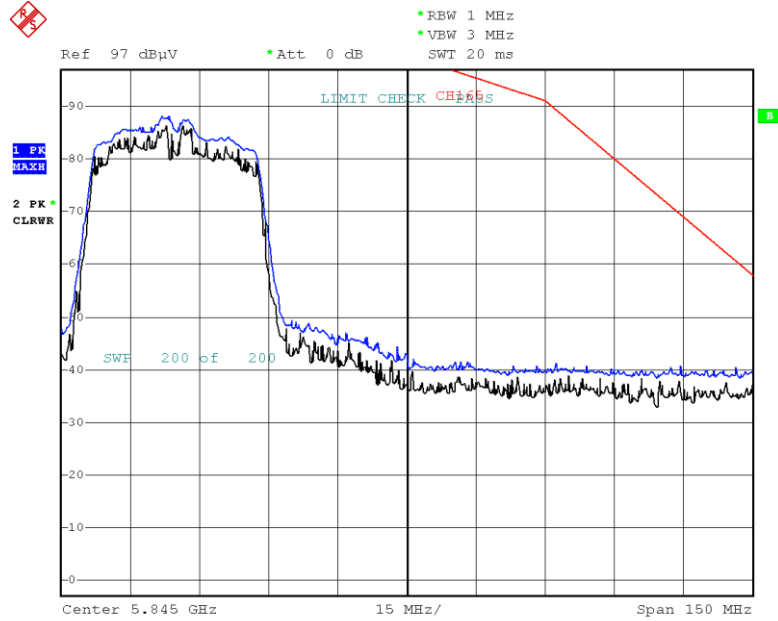
Date: 20.MAY.2020 03:23:14

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



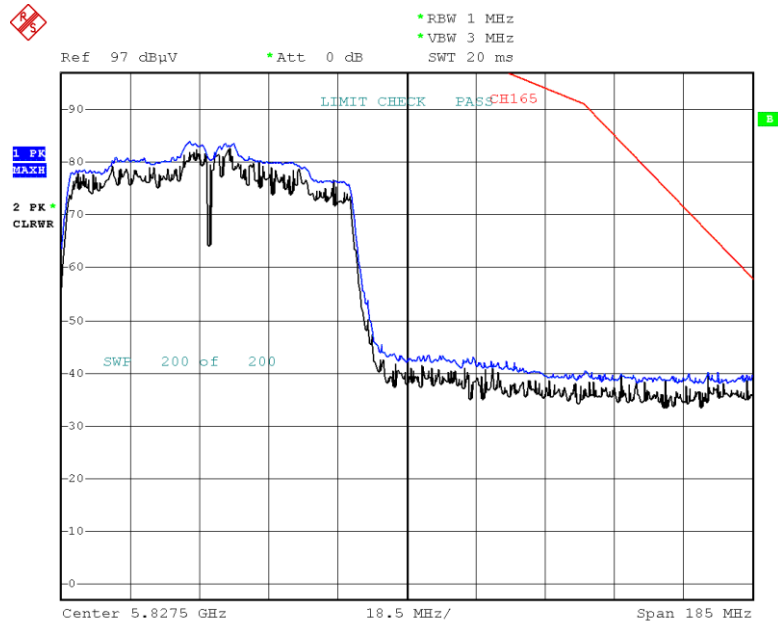
Date: 20.MAY.2020 10:30:32

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



Date: 20.MAY.2020 10:32:13

Peak Reading (802.11ac_VHT80, Ch.155, Y-H)



Date: 22.MAY.2020 06:53:50

10.10 POWERLINE CONDUCTED EMISSIONS
Conducted Emissions (Line 1)

WLAN 5G MODE_L1

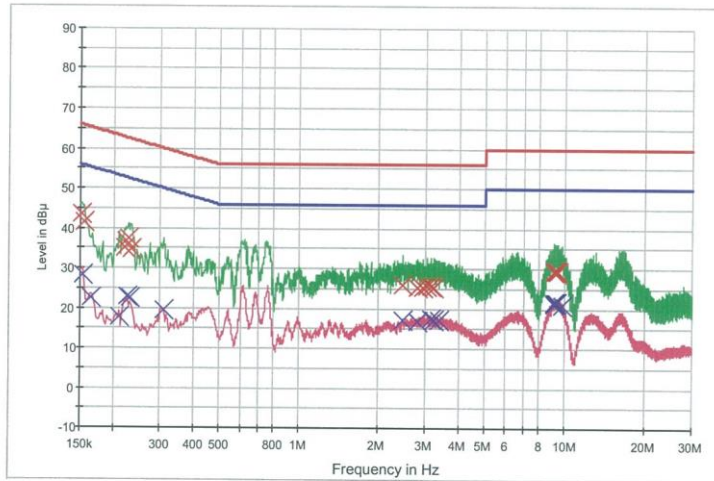
1 / 2

HCT TEST Report

Common Information

EUT: SM-A516V
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: WIFI 5G MODE_L1

FCC CLASS B_Exten Cable



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
 — Preview Result 2-AVG × Final Result 1-QPK × Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	43.5	9.000	Off	L1	9.8	22.4	65.9
0.156000	41.4	9.000	Off	L1	9.8	24.3	65.7
0.220000	35.1	9.000	Off	L1	9.8	27.7	62.8
0.224000	36.7	9.000	Off	L1	9.8	26.0	62.7
0.228000	37.5	9.000	Off	L1	9.8	25.1	62.5
0.234000	34.9	9.000	Off	L1	9.8	27.4	62.3
2.460000	26.0	9.000	Off	L1	9.9	30.0	56.0
2.800000	25.1	9.000	Off	L1	9.9	30.9	56.0
2.934000	25.3	9.000	Off	L1	9.9	30.7	56.0
3.030000	25.6	9.000	Off	L1	9.9	30.4	56.0
3.128000	25.6	9.000	Off	L1	9.9	30.4	56.0
3.202000	25.2	9.000	Off	L1	9.9	30.8	56.0
9.136000	29.4	9.000	Off	L1	10.2	30.6	60.0
9.172000	29.2	9.000	Off	L1	10.2	30.8	60.0
9.280000	29.4	9.000	Off	L1	10.2	30.6	60.0
9.322000	29.5	9.000	Off	L1	10.2	30.5	60.0
9.346000	29.5	9.000	Off	L1	10.2	30.5	60.0
9.430000	29.3	9.000	Off	L1	10.2	30.7	60.0

2020-06-02

오전 9:51:27

WLAN 5G MODE_L1

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	28.2	9.000	Off	L1	9.8	27.5	55.8
0.164000	22.7	9.000	Off	L1	9.8	32.6	55.3
0.210000	18.0	9.000	Off	L1	9.8	35.3	53.2
0.226000	22.8	9.000	Off	L1	9.8	29.8	52.6
0.230000	22.4	9.000	Off	L1	9.8	30.0	52.4
0.308000	19.5	9.000	Off	L1	9.8	30.5	50.0
2.460000	17.2	9.000	Off	L1	9.9	28.8	46.0
2.800000	16.7	9.000	Off	L1	9.9	29.3	46.0
3.122000	17.4	9.000	Off	L1	9.9	28.6	46.0
3.128000	17.6	9.000	Off	L1	9.9	28.4	46.0
3.202000	17.1	9.000	Off	L1	9.9	28.9	46.0
3.386000	17.0	9.000	Off	L1	9.9	29.0	46.0
9.060000	21.3	9.000	Off	L1	10.2	28.7	50.0
9.116000	21.5	9.000	Off	L1	10.2	28.5	50.0
9.136000	21.4	9.000	Off	L1	10.2	28.6	50.0
9.184000	21.6	9.000	Off	L1	10.2	28.4	50.0
9.346000	21.6	9.000	Off	L1	10.2	28.4	50.0
9.708000	20.8	9.000	Off	L1	10.2	29.2	50.0

2020-06-02

오전 9:51:27

Conducted Emissions (Line 2)

WLAN 5G MODE_N

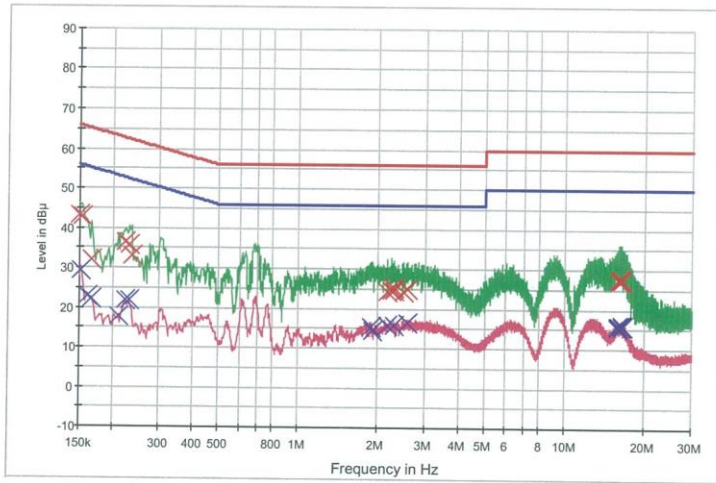
1 / 2

HCT TEST Report

Common Information

EUT: SM-A516V
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: WIFI 5G MODE_N

FCC CLASS B_Exten Cable



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
 — Preview Result 2-AVG × Final Result 1-QPK × Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	43.3	9.000	Off	N	9.8	22.7	66.0
0.154000	42.8	9.000	Off	N	9.8	23.0	65.8
0.166000	32.0	9.000	Off	N	9.8	33.1	65.2
0.224000	36.4	9.000	Off	N	9.8	26.3	62.7
0.232000	35.9	9.000	Off	N	9.8	26.5	62.4
0.236000	33.0	9.000	Off	N	9.8	29.3	62.2
2.160000	24.4	9.000	Off	N	9.9	31.6	56.0
2.228000	24.6	9.000	Off	N	9.9	31.4	56.0
2.278000	24.7	9.000	Off	N	9.9	31.3	56.0
2.294000	25.2	9.000	Off	N	9.9	30.8	56.0
2.496000	24.2	9.000	Off	N	9.9	31.8	56.0
2.568000	25.0	9.000	Off	N	9.9	31.0	56.0
15.924000	27.4	9.000	Off	N	10.5	32.6	60.0
16.038000	27.5	9.000	Off	N	10.5	32.5	60.0
16.162000	27.8	9.000	Off	N	10.5	32.2	60.0
16.232000	27.2	9.000	Off	N	10.5	32.8	60.0
16.282000	27.3	9.000	Off	N	10.5	32.7	60.0
16.404000	27.7	9.000	Off	N	10.5	32.4	60.0

2020-06-02

오전 9:41:48

WLAN 5G MODE_N

2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	29.2	9.000	Off	N	9.8	26.7	55.9
0.160000	22.8	9.000	Off	N	9.8	32.6	55.5
0.166000	22.1	9.000	Off	N	9.8	33.1	55.2
0.210000	17.7	9.000	Off	N	9.8	35.5	53.2
0.224000	21.8	9.000	Off	N	9.8	30.9	52.7
0.230000	21.8	9.000	Off	N	9.8	30.6	52.4
1.870000	15.4	9.000	Off	N	9.9	30.6	46.0
1.902000	14.3	9.000	Off	N	9.9	31.7	46.0
2.160000	15.8	9.000	Off	N	9.9	30.2	46.0
2.278000	15.9	9.000	Off	N	9.9	30.1	46.0
2.294000	15.9	9.000	Off	N	9.9	30.1	46.0
2.568000	16.4	9.000	Off	N	9.9	29.6	46.0
15.764000	15.5	9.000	Off	N	10.5	34.5	50.0
15.838000	15.7	9.000	Off	N	10.5	34.3	50.0
15.924000	15.8	9.000	Off	N	10.5	34.2	50.0
16.282000	16.0	9.000	Off	N	10.5	34.0	50.0
16.404000	15.8	9.000	Off	N	10.5	34.2	50.0
16.426000	15.6	9.000	Off	N	10.5	34.4	50.0

2020-06-02

오전 9:41:48

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	03/18/2020	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/11/2020	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	01/13/2020	Annual	MY49431210
Agilent	N1911A / Power Meter	04/07/2020	Annual	MY45100523
Agilent	N1921A / Power Sensor	03/23/2020	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/11/2019	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/25/2020	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	01/18/2019	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	01/21/2020	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	02/10/2020	Annual	1
CERNEX WEINSCHHEL	CBLU1183540B-01/Broadband Bench Top LNA 56-10 / Attenuator(10 dB)	12/24/2019	Annual	N/A
CERNEX Api tech.	CBL06185030 / Broadband Low Noise Amplifier 18B-03 / Attenuator (3 dB)	12/24/2019	Annual	N/A
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	03/23/2020	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/18/2020	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.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

12. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-2006-FC007-P