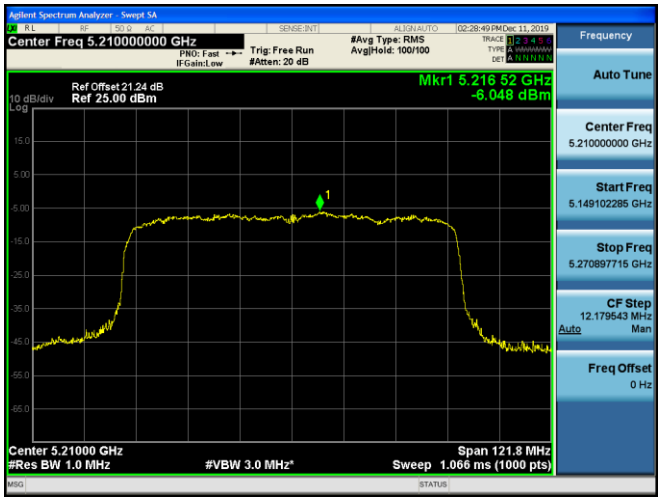
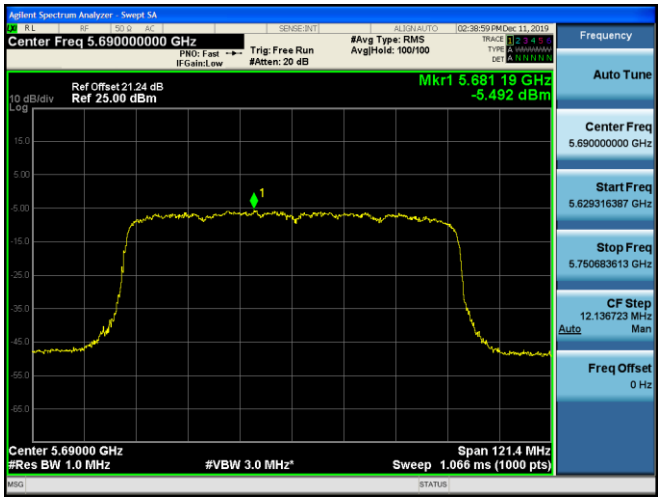
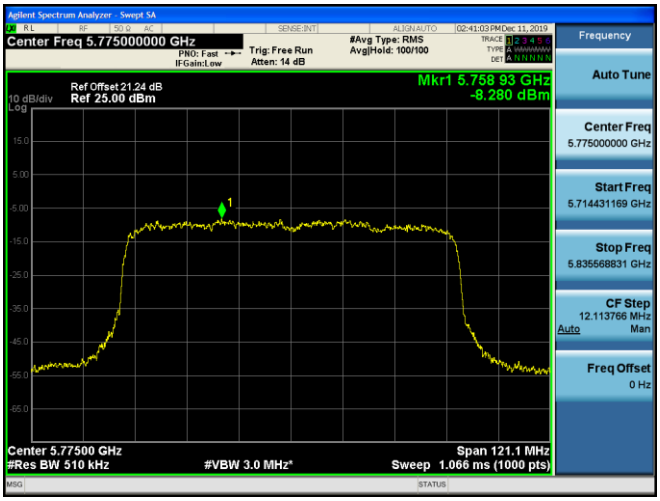
▣ Test Plots(802.11ac(VHT80))

Note:

In order to simplify the report, attached plots were only channel of highest power.

UNII 1 (Ch. 42)	UNII 2A (Ch. 58)
	

UNII 2C (Ch. 138)	UNII 3 (Ch. 155)
	

10.6 FREQUENCY STABILITY.

10.6.1 80MHz BW

Startup after the EUT is energized

OPERATING BAND: UNII Band 1
OPERATING FREQUENCY: 5,210,000,000 Hz
CHANNEL: 42
REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210036.24	36.24
100%		-30	5210053.04	53.04
100%		-20	5210046.07	46.07
100%		-10	5210040.11	40.11
100%		0	5210035.02	35.02
100%		+10	5210032.60	32.60
100%		+30	5210031.51	31.51
100%		+40	5210041.98	41.98
100%		+50	5210046.89	46.89
Low	4.35	+20	5210045.08	45.08
High	3.40	+20	5210047.27	47.27

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290035.87	35.87
100%		-30	5290051.63	51.63
100%		-20	5290044.30	44.30
100%		-10	5290037.40	37.40
100%		0	5290033.76	33.76
100%		+10	5290030.53	30.53
100%		+30	5290032.45	32.45
100%		+40	5290041.33	41.33
100%		+50	5290046.40	46.40
Low	4.35	+20	5290045.24	45.24
High	3.40	+20	5290047.15	47.15

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530036.16	36.16
100%		-30	5530052.83	52.83
100%		-20	5530045.97	45.97
100%		-10	5530039.30	39.30
100%		0	5530034.65	34.65
100%		+10	5530031.40	31.40
100%		+30	5530031.20	31.20
100%		+40	5530041.14	41.14
100%		+50	5530044.34	44.34
Low	4.35	+20	5530043.37	43.37
High	3.40	+20	5530048.32	48.32

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775036.65	36.65
100%		-30	5775052.87	52.87
100%		-20	5775045.43	45.43
100%		-10	5775038.35	38.35
100%		0	5775033.34	33.34
100%		+10	5775029.37	29.37
100%		+30	5775031.27	31.27
100%		+40	5775039.33	39.33
100%		+50	5775043.05	43.05
Low	4.35	+20	5775043.89	43.89
High	3.40	+20	5775045.59	45.59

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.

2 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
OPERATING FREQUENCY: 5,210,000,000 Hz
CHANNEL: 42
REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210037.22	37.22
100%		-30	5210053.06	53.06
100%		-20	5210045.98	45.98
100%		-10	5210039.36	39.36
100%		0	5210036.04	36.04
100%		+10	5210032.13	32.13
100%		+30	5210032.60	32.60
100%		+40	5210041.33	41.33
100%		+50	5210046.27	46.27
Low	4.35	+20	5210045.11	45.11
High	3.40	+20	5210047.54	47.54

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290037.01	37.01
100%		-30	5290053.44	53.44
100%		-20	5290047.25	47.25
100%		-10	5290041.46	41.46
100%		0	5290037.94	37.94
100%		+10	5290034.92	34.92
100%		+30	5290032.41	32.41
100%		+40	5290042.55	42.55
100%		+50	5290047.49	47.49
Low	4.35	+20	5290045.11	45.11
High	3.40	+20	5290047.43	47.43

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530037.47	37.47
100%		-30	5530053.06	53.06
100%		-20	5530045.55	45.55
100%		-10	5530039.80	39.80
100%		0	5530036.11	36.11
100%		+10	5530032.92	32.92
100%		+30	5530031.46	31.46
100%		+40	5530041.30	41.30
100%		+50	5530045.35	45.35
Low	4.35	+20	5530044.22	44.22
High	3.40	+20	5530047.54	47.54

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775036.97	36.97
100%		-30	5775052.73	52.73
100%		-20	5775045.27	45.27
100%		-10	5775038.65	38.65
100%		0	5775033.62	33.62
100%		+10	5775030.21	30.21
100%		+30	5775032.18	32.18
100%		+40	5775041.25	41.25
100%		+50	5775046.14	46.14
Low	4.35	+20	5775045.06	45.06
High	3.40	+20	5775046.24	46.24

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.

5 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
OPERATING FREQUENCY: 5,210,000,000 Hz
CHANNEL: 42
REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210037.58	37.58
100%		-30	5210052.75	52.75
100%		-20	5210044.73	44.73
100%		-10	5210038.44	38.44
100%		0	5210033.34	33.34
100%		+10	5210030.88	30.88
100%		+30	5210032.05	32.05
100%		+40	5210041.89	41.89
100%		+50	5210047.85	47.85
Low	4.35	+20	5210046.13	46.13
High	3.40	+20	5210045.67	45.67

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290037.82	37.82
100%		-30	5290051.98	51.98
100%		-20	5290045.18	45.18
100%		-10	5290039.33	39.33
100%		0	5290035.35	35.35
100%		+10	5290033.21	33.21
100%		+30	5290031.16	31.16
100%		+40	5290041.22	41.22
100%		+50	5290047.24	47.24
Low	4.35	+20	5290046.19	46.19
High	3.40	+20	5290045.65	45.65

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530038.24	38.24
100%		-30	5530052.81	52.81
100%		-20	5530045.25	45.25
100%		-10	5530038.30	38.30
100%		0	5530034.53	34.53
100%		+10	5530031.96	31.96
100%		+30	5530032.77	32.77
100%		+40	5530041.24	41.24
100%		+50	5530047.02	47.02
Low	4.35	+20	5530045.95	45.95
High	3.40	+20	5530047.88	47.88

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 3
OPERATING FREQUENCY: 5,775,000,000 Hz
CHANNEL: 155
REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775038.44	38.44
100%		-30	5775051.92	51.92
100%		-20	5775045.21	45.21
100%		-10	5775039.91	39.91
100%		0	5775036.02	36.02
100%		+10	5775032.84	32.84
100%		+30	5775030.86	30.86
100%		+40	5775039.70	39.70
100%		+50	5775045.53	45.53
Low	4.35	+20	5775046.00	46.00
High	3.40	+20	5775045.80	45.80

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210037.69	37.69
100%		-30	5210051.97	51.97
100%		-20	5210045.60	45.60
100%		-10	5210040.18	40.18
100%		0	5210035.58	35.58
100%		+10	5210032.13	32.13
100%		+30	5210031.92	31.92
100%		+40	5210040.47	40.47
100%		+50	5210046.41	46.41
Low	4.35	+20	5210046.11	46.11
High	3.40	+20	5210046.45	46.45

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290037.87	37.87
100%		-30	5290051.84	51.84
100%		-20	5290045.43	45.43
100%		-10	5290038.36	38.36
100%		0	5290034.28	34.28
100%		+10	5290031.03	31.03
100%		+30	5290032.11	32.11
100%		+40	5290041.88	41.88
100%		+50	5290047.50	47.50
Low	4.35	+20	5290045.79	45.79
High	3.40	+20	5290048.41	48.41

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530038.35	38.35
100%		-30	5530052.86	52.86
100%		-20	5530046.55	46.55
100%		-10	5530040.14	40.14
100%		0	5530035.75	35.75
100%		+10	5530033.51	33.51
100%		+30	5530031.80	31.80
100%		+40	5530041.69	41.69
100%		+50	5530047.22	47.22
Low	4.35	+20	5530045.70	45.70
High	3.40	+20	5530045.86	45.86

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775038.65	38.65
100%		-30	5775052.38	52.38
100%		-20	5775045.37	45.37
100%		-10	5775039.99	39.99
100%		0	5775036.64	36.64
100%		+10	5775033.68	33.68
100%		+30	5775032.74	32.74
100%		+40	5775041.88	41.88
100%		+50	5775046.25	46.25
Low	4.35	+20	5775044.54	44.54
High	3.40	+20	5775048.46	48.46

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	5709.40	15.60
802.11n(HT20)				5709.08	15.92
802.11ac(VHT20)				5709.32	15.68
802.11a	UNII 3	5720	144	5730.44	5.44
802.11n(HT20)				5731.00	6.00
802.11ac(VHT20)				5731.08	6.08

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11n(HT40)	UNII 2C	5710	142	5688.32	36.68
802.11ac(VHT40)				5688.48	36.52
802.11n(HT40)	UNII 3	5710	142	5731.44	6.44
802.11ac(VHT40)				5731.12	6.12

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11ac(VHT80)	UNII 2C	5690	138	5649.80	75.20
	UNII 3	5690	138	5730.20	5.20

Note:

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

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

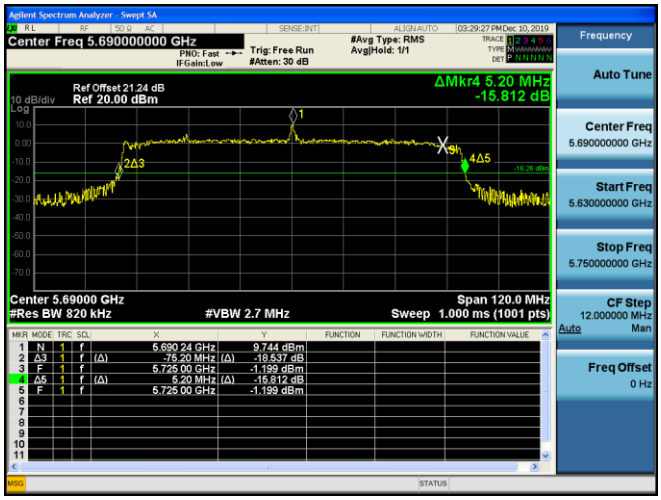
▣ Test Plots (26dB Bandwidth)

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	5727.63	2.63	> 0.5
802.11n(HT20)				5727.65	2.65	> 0.5
802.11ac(VHT20)				5728.51	3.51	> 0.5

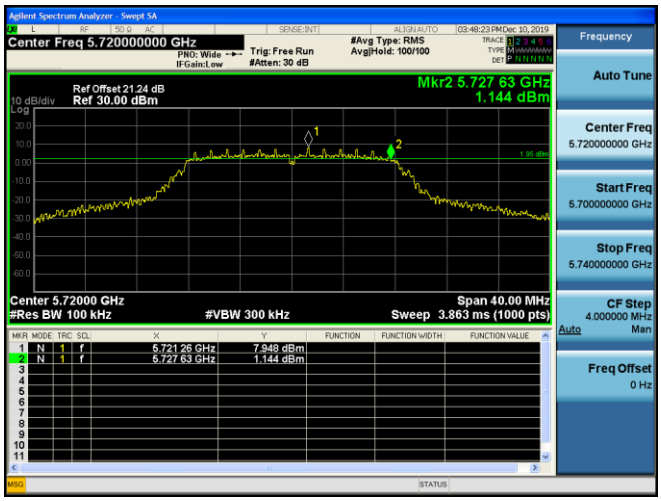
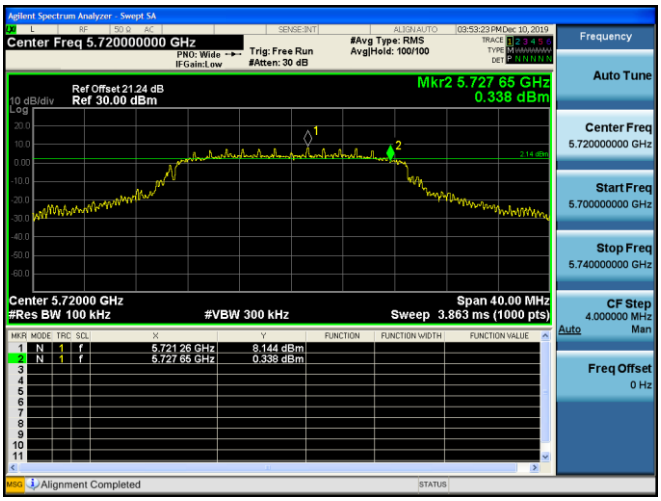
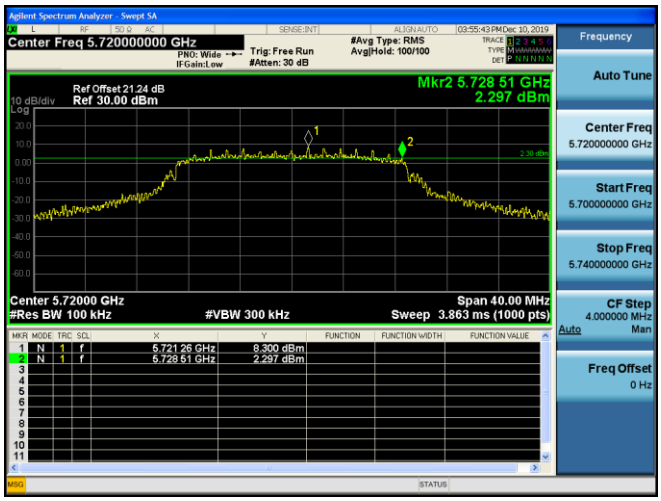
Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5728.58	3.58	> 0.5
802.11ac(VHT40)				5728.60	3.60	> 0.5

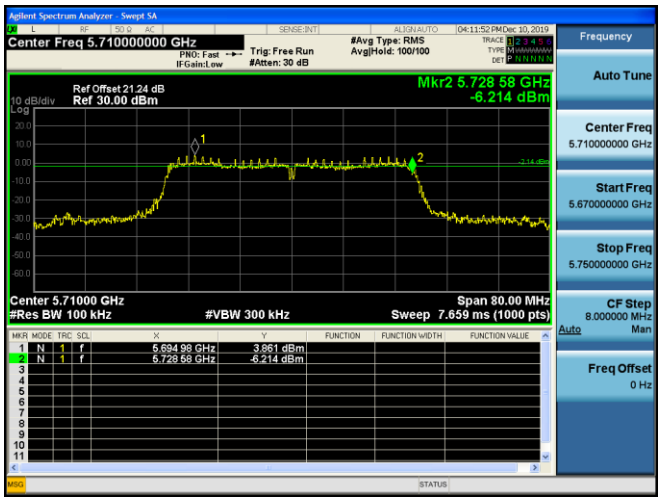
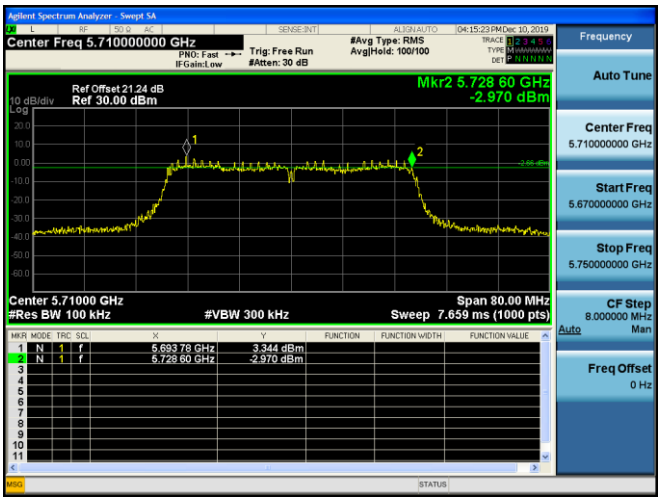
Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5728.71	3.71	> 0.5

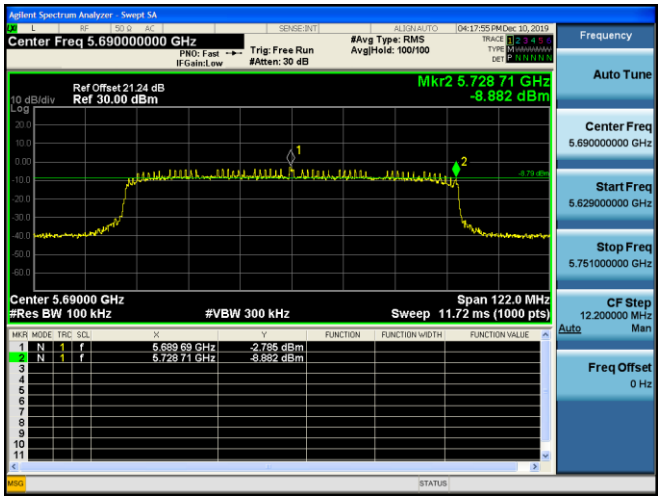
Note:

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

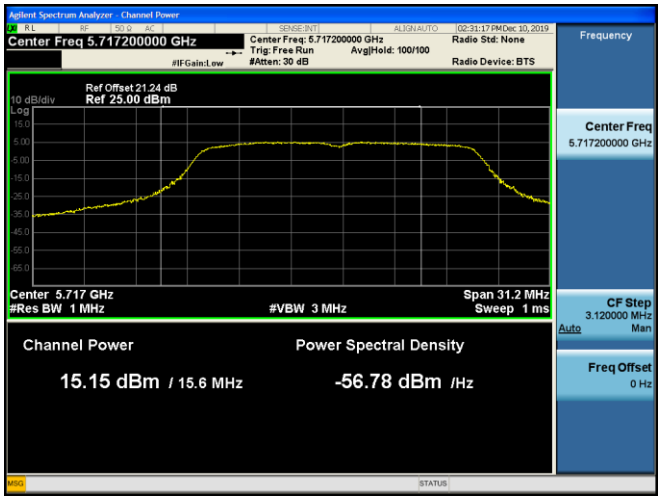
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	15.15	1.669	16.82	22.93
802.11n(HT20)			15.11	1.565	16.67	23.02
802.11ac(VHT20)			15.07	1.549	16.62	22.95
802.11a	5720 (UNII 3 Band)	144	8.18	1.669	9.85	30.00
802.11n(HT20)			8.38	1.565	9.94	30.00
802.11ac(VHT20)			8.40	1.549	9.95	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	13.43	1.805	15.24	23.98
802.11ac(VHT40)			13.24	2.407	15.65	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	4.18	1.805	5.99	30.00
802.11ac(VHT40)			4.07	2.407	6.48	30.00

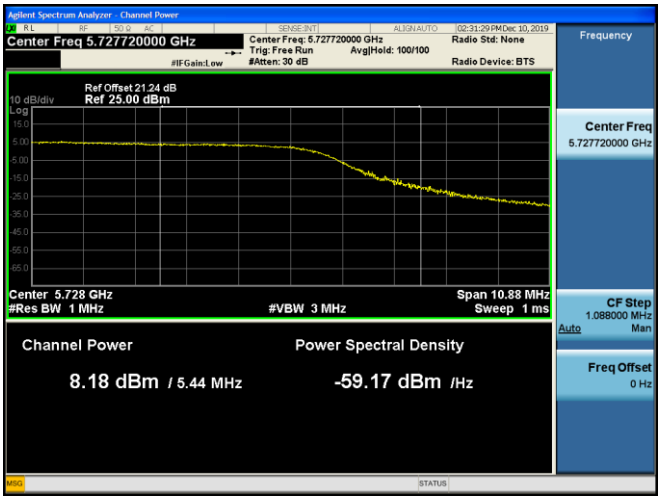
Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	10.62	2.567	13.19	23.98
	5690 (UNII 3 Band)	138	-4.80	2.567	-2.23	30.00

▣ Test Plots_

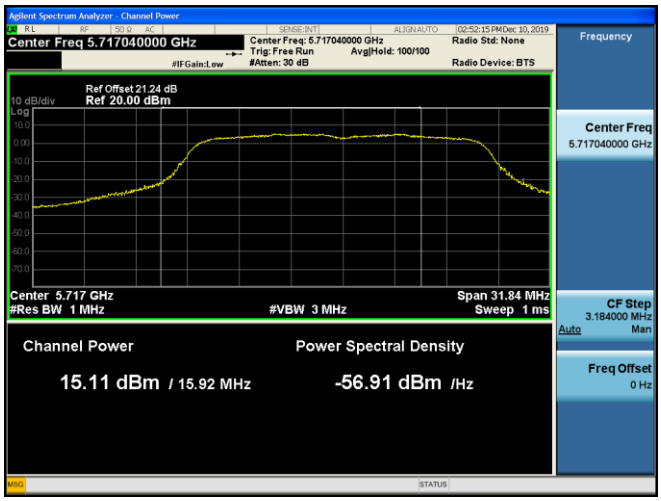
802.11a UNII 2C Band



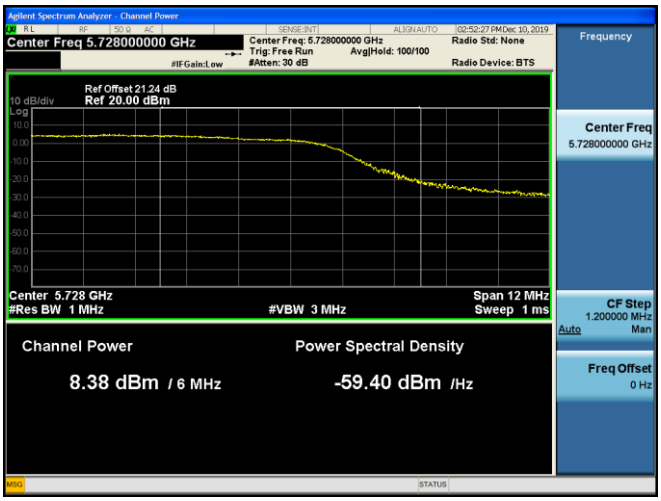
802.11a UNII 3 Band



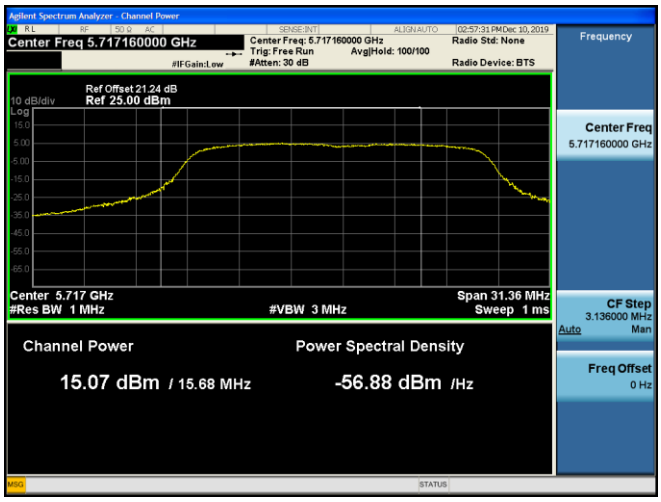
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



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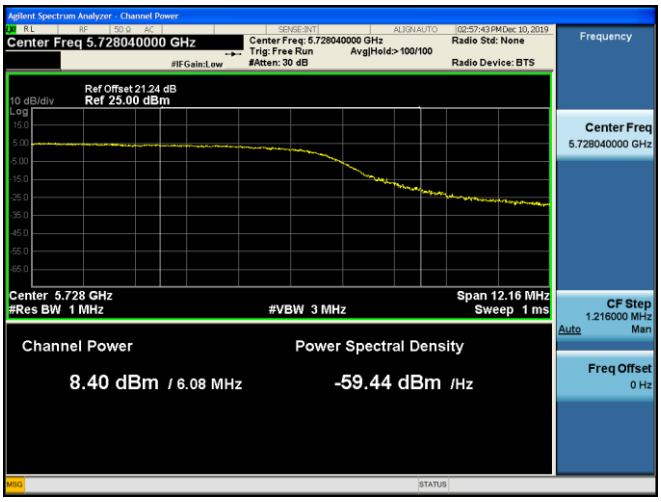
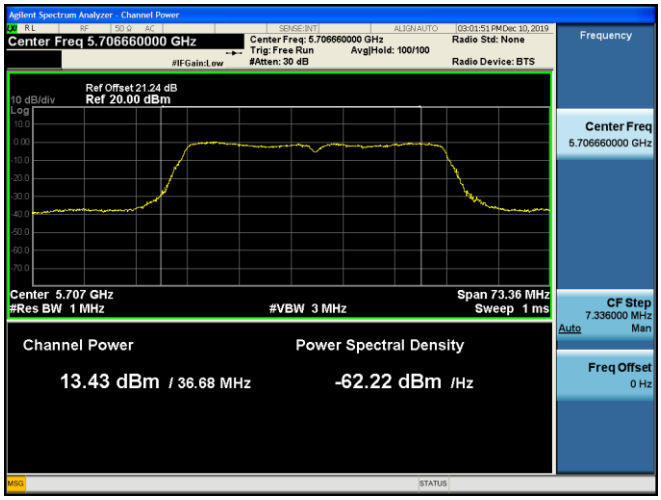
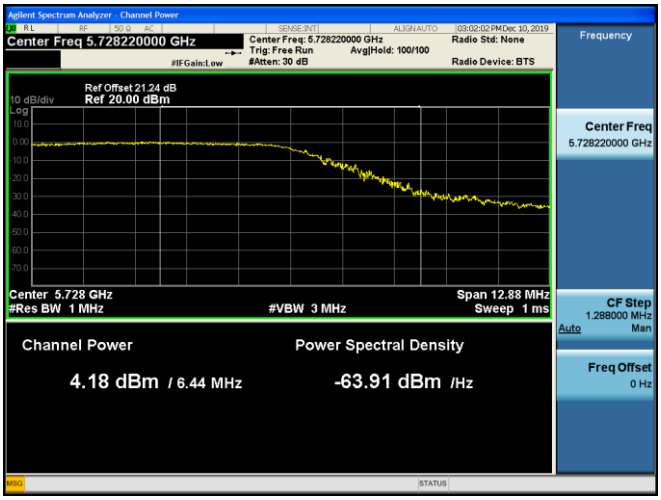


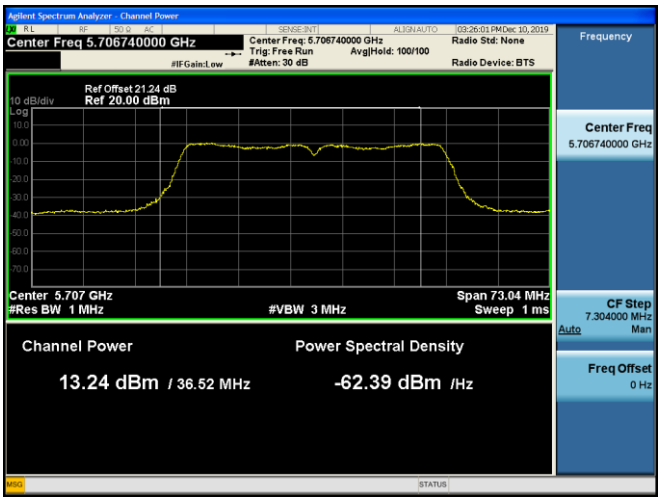
802.11n(HT40) UNII 2C Band



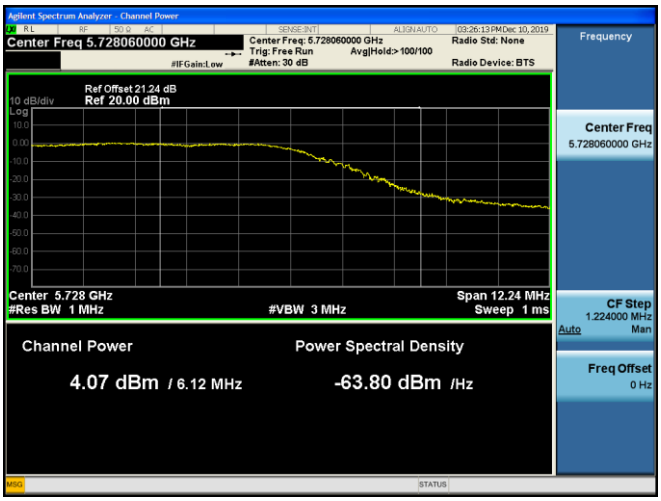
802.11n(HT40) UNII 3 Band



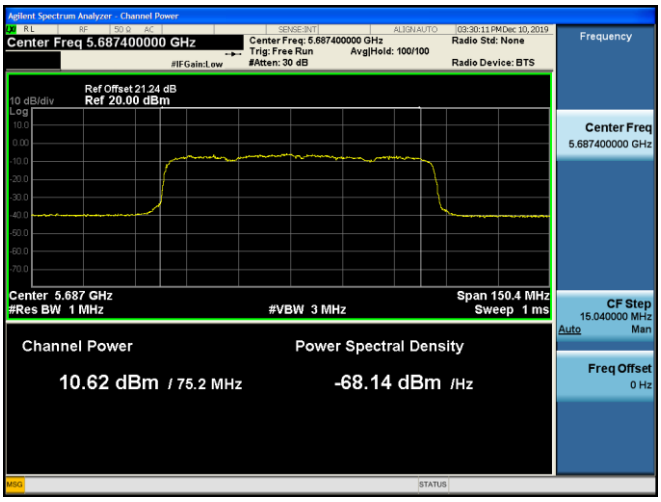
802.11ac(VHT40) UNII 2C Band



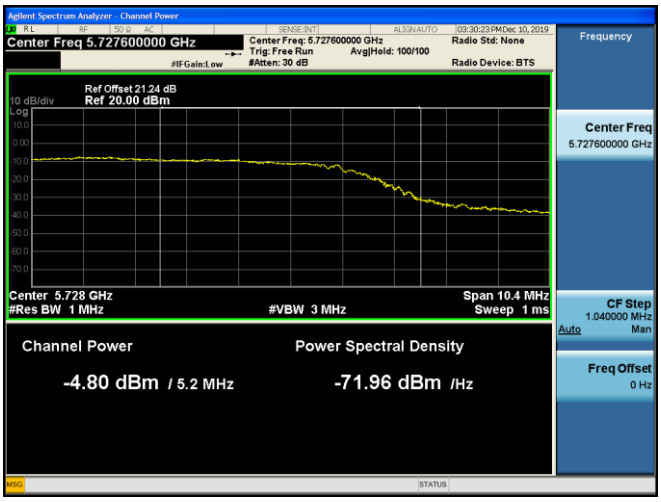
802.11ac(VHT40) UNII 3 Band



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	5.716	1.669	7.385	11.00
802.11n(HT20)			5.269	1.565	6.834	11.00
802.11ac(VHT20)			5.802	1.549	7.351	11.00
802.11a	5720 (UNII 3 Band)	144	1.524	1.669	3.193	30.00
802.11n(HT20)			1.455	1.565	3.020	30.00
802.11ac(VHT20)			1.353	1.549	2.902	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	0.522	1.805	2.327	11.00
802.11ac(VHT40)			-0.166	2.407	2.241	11.00
802.11n(HT40)	5710 (UNII 3 Band)	142	-2.756	1.805	-0.951	30.00
802.11ac(VHT40)			-2.401	2.407	0.006	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	-6.110	2.567	-3.543	11.00
	5690 (UNII 3 Band)	138	-11.773	2.567	-9.206	30.00

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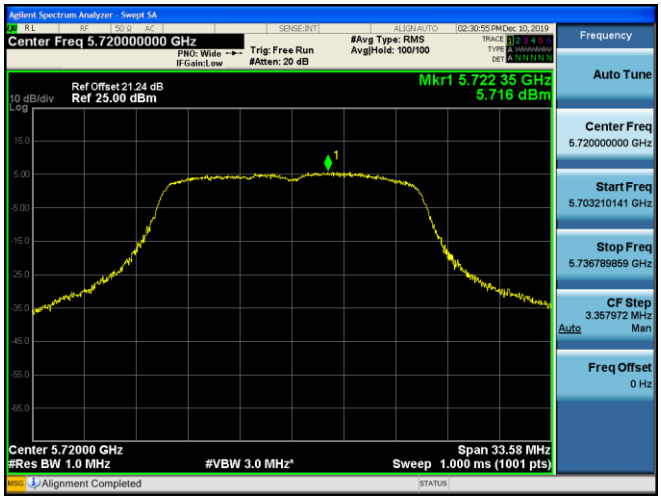
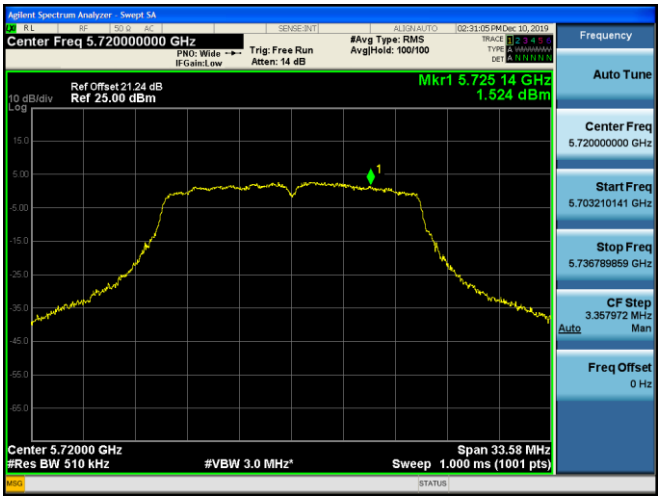
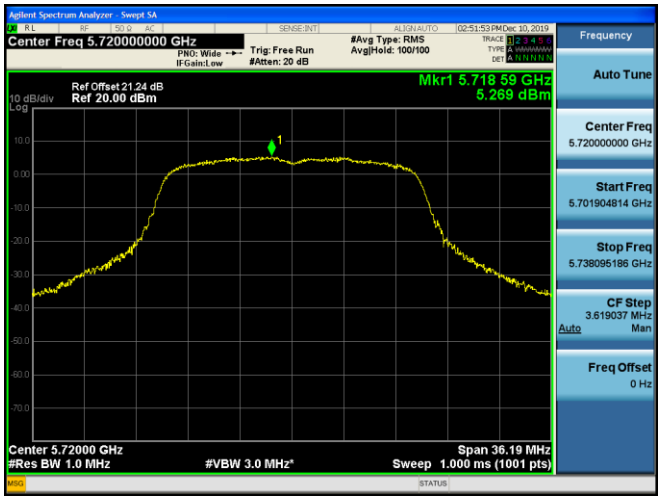
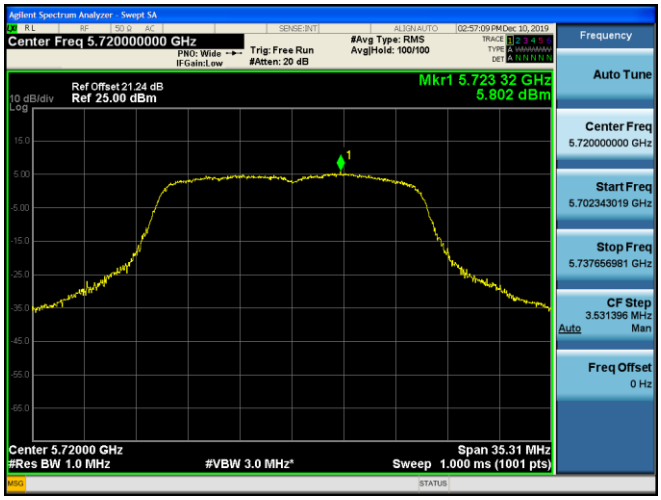
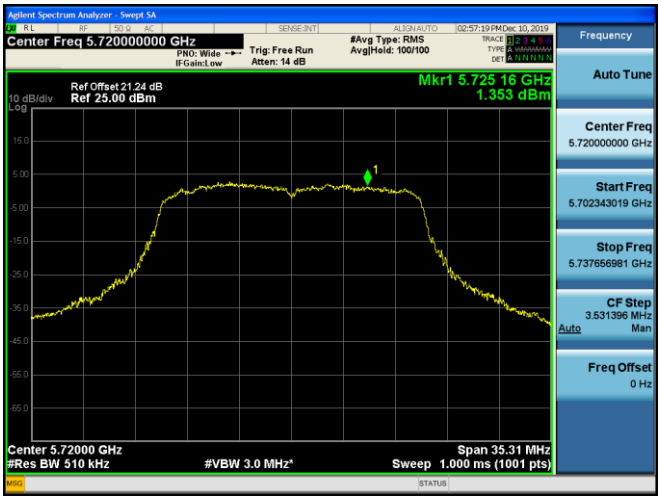
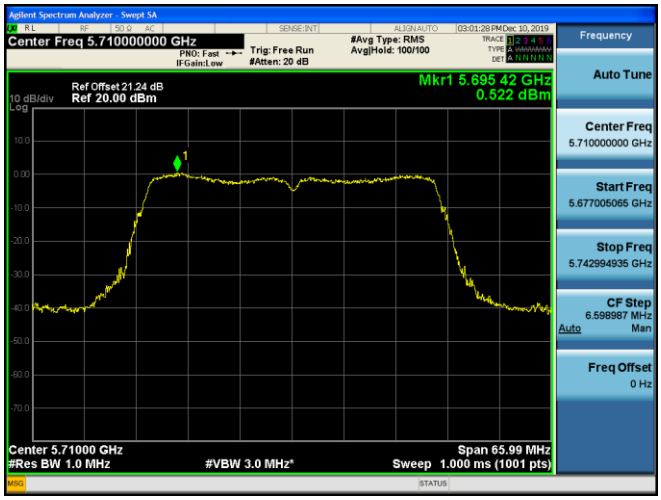
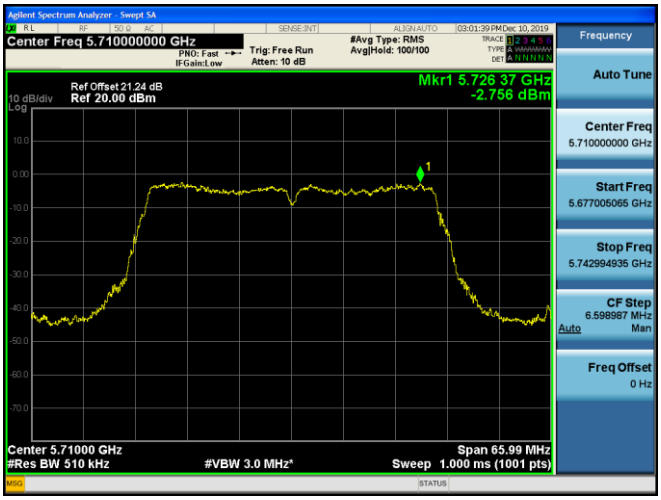
802.11a UNII 2C Band	802.11a UNII 3 Band
	
802.11n(HT20) UNII 2C Band	**802.11n(HT20) UNII 3 Band**
	
802.11ac(VHT20) UNII 2C Band	**802.11ac(VHT20) UNII 3 Band**
	

802.11n(HT40) UNII 2C Band	802.11n(HT40) UNII 3 Band
	
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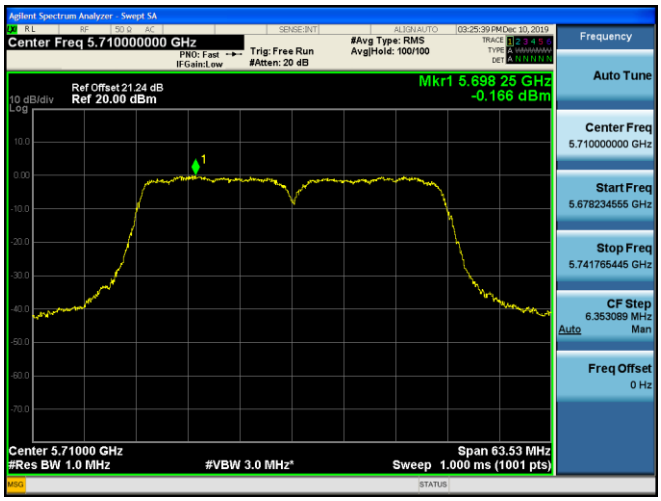	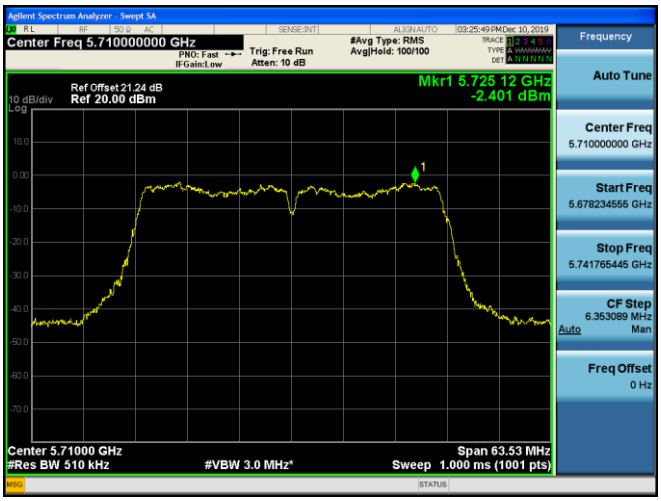
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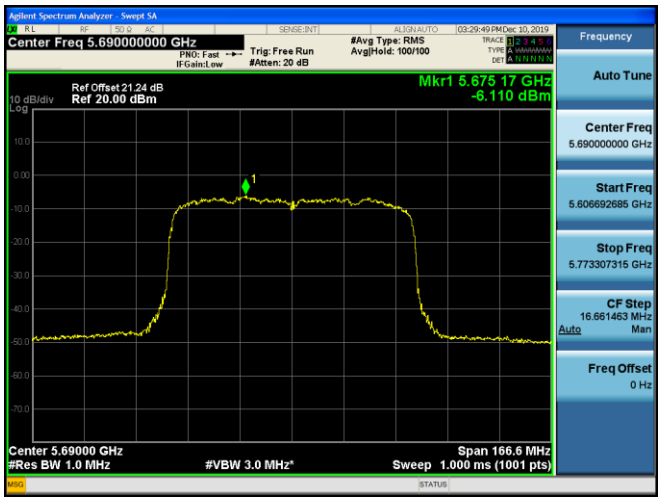
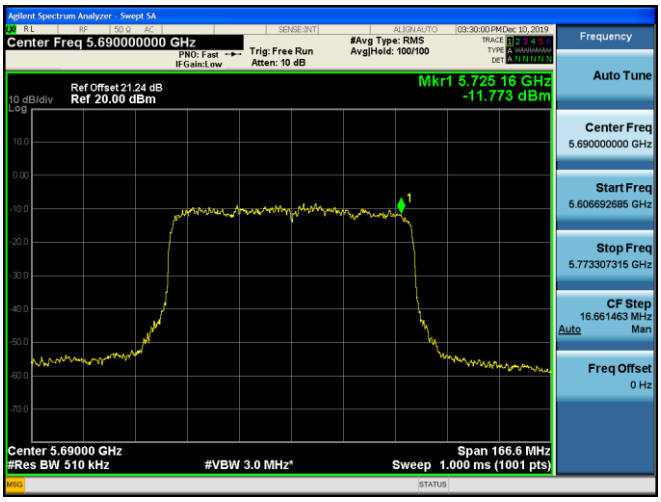
	

10.8 RADIATED SPURIOUS EMISSIONS

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 = 40log (specific distance / 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	45.55	6.89	V	52.44	68.20	15.76	PK
15540	45.70	12.57	V	58.27	73.98	15.71	PK
15540	31.67	12.57	V	44.24	53.98	9.74	AV
10360	46.15	6.89	H	53.04	68.20	15.16	PK
15540	45.80	12.57	H	58.37	73.98	15.61	PK
15540	31.76	12.57	H	44.33	53.98	9.65	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	44.02	6.94	V	50.96	68.20	17.24	PK
15600	44.67	11.47	V	56.14	73.98	17.84	PK
15600	31.13	11.47	V	42.60	53.98	11.38	AV
10400	44.81	6.94	H	51.75	68.20	16.45	PK
15600	45.21	11.47	H	56.68	73.98	17.30	PK
15600	31.17	11.47	H	42.64	53.98	11.34	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	43.03	7.65	V	50.68	68.20	17.52	PK
15720	44.47	11.66	V	56.13	73.98	17.85	PK
15720	30.36	11.66	V	42.02	53.98	11.96	AV
10480	43.70	7.65	H	51.35	68.20	16.85	PK
15720	44.55	11.66	H	56.21	73.98	17.77	PK
15720	30.68	11.66	H	42.34	53.98	11.64	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	43.74	8.33	V	52.07	68.20	16.13	PK
15780	43.49	12.21	V	55.70	73.98	18.28	PK
15780	29.60	12.21	V	41.81	53.98	12.17	AV
10520	44.44	8.33	H	52.77	68.20	15.43	PK
15780	44.97	12.21	H	57.18	73.98	16.80	PK
15780	30.86	12.21	H	43.07	53.98	10.91	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	42.10	8.85	V	50.95	73.98	23.03	PK
10600	29.62	8.85	V	38.47	53.98	15.51	AV
15900	44.56	11.90	V	56.46	73.98	17.52	PK
15900	30.05	11.90	V	41.95	53.98	12.03	AV
10600	42.60	8.85	H	51.45	73.98	22.53	PK
10600	29.95	8.85	H	38.80	53.98	15.18	AV
15900	44.71	11.90	H	56.61	73.98	17.37	PK
15900	30.70	11.90	H	42.60	53.98	11.38	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	42.34	9.25	V	51.59	73.98	22.39	PK
10640	29.68	9.25	V	38.93	53.98	15.05	AV
15960	44.42	10.55	V	54.97	73.98	19.01	PK
15960	30.60	10.55	V	41.15	53.98	12.83	AV
10640	42.57	9.25	H	51.82	73.98	22.16	PK
10640	29.92	9.25	H	39.17	53.98	14.81	AV
15960	44.52	10.55	H	55.07	73.98	18.91	PK
15960	30.74	10.55	H	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	43.60	10.23	V	53.83	73.98	20.15	PK
11000	29.73	10.23	V	39.96	53.98	14.02	AV
16500	49.58	11.62	V	61.20	68.20	7.00	PK
11000	43.12	10.23	H	53.35	73.98	20.63	PK
11000	29.58	10.23	H	39.81	53.98	14.17	AV
16500	48.81	11.62	H	60.43	68.20	7.77	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	43.54	10.09	V	53.63	73.98	20.35	PK
11160	29.72	10.09	V	39.81	53.98	14.17	AV
16740	49.24	11.27	V	60.51	68.20	7.69	PK
11160	42.40	10.09	H	52.49	73.98	21.49	PK
11160	29.45	10.09	H	39.54	53.98	14.44	AV
16740	49.09	11.27	H	60.36	68.20	7.84	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	43.29	9.39	V	52.68	73.98	21.30	PK
11440	29.79	9.39	V	39.18	53.98	14.80	AV
17160	48.51	12.91	V	61.42	68.20	6.78	PK
11440	42.51	9.39	H	51.90	73.98	22.08	PK
11440	29.56	9.39	H	38.95	53.98	15.03	AV
17160	47.56	12.91	H	60.47	68.20	7.73	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	42.72	9.31	V	52.03	73.98	21.95	PK
11490	29.15	9.31	V	38.46	53.98	15.52	AV
17235	47.68	14.49	V	62.17	68.20	6.03	PK
11490	42.92	9.31	H	52.23	73.98	21.75	PK
11490	29.20	9.31	H	38.51	53.98	15.47	AV
17235	48.35	14.49	H	62.84	68.20	5.36	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	42.40	9.38	V	51.78	73.98	22.20	PK
11570	29.02	9.38	V	38.40	53.98	15.58	AV
17355	47.99	15.74	V	63.73	68.20	4.47	PK
11570	42.67	9.38	H	52.05	73.98	21.93	PK
11570	29.07	9.38	H	38.45	53.98	15.53	AV
17355	48.25	15.74	H	63.99	68.20	4.21	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	42.77	8.33	V	51.10	73.98	22.88	PK
11650	29.70	8.33	V	38.03	53.98	15.95	AV
17475	47.51	16.79	V	64.30	68.20	3.90	PK
11650	43.93	8.33	H	52.26	73.98	21.72	PK
11650	29.88	8.33	H	38.21	53.98	15.77	AV
17475	47.72	16.79	H	64.51	68.20	3.69	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	44.29	6.89	V	51.18	68.20	17.02	PK
15540	44.86	12.57	V	57.43	73.98	16.55	PK
15540	31.61	12.57	V	44.18	53.98	9.80	AV
10360	45.11	6.89	H	52.00	68.20	16.20	PK
15540	45.26	12.57	H	57.83	73.98	16.15	PK
15540	31.79	12.57	H	44.36	53.98	9.62	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	44.28	6.94	V	51.22	68.20	16.98	PK
15600	44.60	11.47	V	56.07	73.98	17.91	PK
15600	31.20	11.47	V	42.67	53.98	11.31	AV
10400	45.04	6.94	H	51.98	68.20	16.22	PK
15600	45.18	11.47	H	56.65	73.98	17.33	PK
15600	31.42	11.47	H	42.89	53.98	11.09	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	42.93	7.65	V	50.58	68.20	17.62	PK
15720	44.33	11.66	V	55.99	73.98	17.99	PK
15720	30.46	11.66	V	42.12	53.98	11.86	AV
10480	43.40	7.65	H	51.05	68.20	17.15	PK
15720	44.37	11.66	H	56.03	73.98	17.95	PK
15720	30.61	11.66	H	42.27	53.98	11.71	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	43.18	8.33	V	51.51	68.20	16.69	PK
15780	41.61	12.21	V	53.82	73.98	20.16	PK
15780	29.70	12.21	V	41.91	53.98	12.07	AV
10520	44.59	8.33	H	52.92	68.20	15.28	PK
15780	43.28	12.21	H	55.49	73.98	18.49	PK
15780	29.89	12.21	H	42.10	53.98	11.88	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	42.97	8.85	V	51.82	73.98	22.16	PK
10600	30.33	8.85	V	39.18	53.98	14.80	AV
15900	44.08	11.90	V	55.98	73.98	18.00	PK
15900	30.58	11.90	V	42.48	53.98	11.50	AV
10600	44.52	8.85	H	53.37	73.98	20.61	PK
10600	30.58	8.85	H	39.43	53.98	14.55	AV
15900	45.08	11.90	H	56.98	73.98	17.00	PK
15900	30.94	11.90	H	42.84	53.98	11.14	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	43.65	9.25	V	52.90	73.98	21.08	PK
10640	29.64	9.25	V	38.89	53.98	15.09	AV
15960	44.00	10.55	V	54.55	73.98	19.43	PK
15960	30.55	10.55	V	41.10	53.98	12.88	AV
10640	43.81	9.25	H	53.06	73.98	20.92	PK
10640	29.96	9.25	H	39.21	53.98	14.77	AV
15960	44.63	10.55	H	55.18	73.98	18.80	PK
15960	30.81	10.55	H	41.36	53.98	12.62	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	43.05	10.23	V	53.28	73.98	20.70	PK
11000	29.73	10.23	V	39.96	53.98	14.02	AV
16500	48.10	11.62	V	59.72	68.20	8.48	PK
11000	42.80	10.23	H	53.03	73.98	20.95	PK
11000	29.37	10.23	H	39.60	53.98	14.38	AV
16500	46.97	11.62	H	58.59	68.20	9.61	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	42.97	10.09	V	53.06	73.98	20.92	PK
11160	29.52	10.09	V	39.61	53.98	14.37	AV
16740	49.09	11.27	V	60.36	68.20	7.84	PK
11160	42.53	10.09	H	52.62	73.98	21.36	PK
11160	29.30	10.09	H	39.39	53.98	14.59	AV
16740	48.14	11.27	H	59.41	68.20	8.79	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	42.79	9.39	V	52.18	73.98	21.80	PK
11440	29.42	9.39	V	38.81	53.98	15.17	AV
17160	47.82	12.91	V	60.73	68.20	7.47	PK
11440	42.10	9.39	H	51.49	73.98	22.49	PK
11440	29.28	9.39	H	38.67	53.98	15.31	AV
17160	47.26	12.91	H	60.17	68.20	8.03	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	42.07	9.31	V	51.38	73.98	22.60	PK
11490	29.10	9.31	V	38.41	53.98	15.57	AV
17235	47.65	14.49	V	62.14	68.20	6.06	PK
11490	42.47	9.31	H	51.78	73.98	22.20	PK
11490	29.26	9.31	H	38.57	53.98	15.41	AV
17235	48.84	14.49	H	63.33	68.20	4.87	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	42.65	9.38	V	52.03	73.98	21.95	PK
11570	28.97	9.38	V	38.35	53.98	15.63	AV
17355	46.10	15.74	V	61.84	68.20	6.36	PK
11570	42.68	9.38	H	52.06	73.98	21.92	PK
11570	29.16	9.38	H	38.54	53.98	15.44	AV
17355	46.80	15.74	H	62.54	68.20	5.66	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	43.78	8.33	V	52.11	73.98	21.87	PK
11650	30.42	8.33	V	38.75	53.98	15.23	AV
17475	46.81	16.79	V	63.60	68.20	4.60	PK
11650	44.14	8.33	H	52.47	73.98	21.51	PK
11650	30.81	8.33	H	39.14	53.98	14.84	AV
17475	48.12	16.79	H	64.91	68.20	3.29	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	43.94	6.89	V	50.83	68.20	17.37	PK
15540	44.95	12.57	V	57.52	73.98	16.46	PK
15540	31.50	12.57	V	44.07	53.98	9.91	AV
10360	44.47	6.89	H	51.36	68.20	16.84	PK
15540	45.24	12.57	H	57.81	73.98	16.17	PK
15540	31.82	12.57	H	44.39	53.98	9.59	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	44.55	6.94	V	51.49	68.20	16.71	PK
15600	44.78	11.47	V	56.25	73.98	17.73	PK
15600	31.10	11.47	V	42.57	53.98	11.41	AV
10400	44.66	6.94	H	51.60	68.20	16.60	PK
15600	45.14	11.47	H	56.61	73.98	17.37	PK
15600	31.34	11.47	H	42.81	53.98	11.17	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	43.12	7.65	V	50.77	68.20	17.43	PK
15720	43.77	11.66	V	55.43	73.98	18.55	PK
15720	30.39	11.66	V	42.05	53.98	11.93	AV
10480	43.56	7.65	H	51.21	68.20	16.99	PK
15720	43.84	11.66	H	55.50	73.98	18.48	PK
15720	30.55	11.66	H	42.21	53.98	11.77	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	43.59	8.33	V	51.92	68.20	16.28	PK
15780	42.57	12.21	V	54.78	73.98	19.20	PK
15780	29.64	12.21	V	41.85	53.98	12.13	AV
10520	43.90	8.33	H	52.23	68.20	15.97	PK
15780	43.37	12.21	H	55.58	73.98	18.40	PK
15780	29.88	12.21	H	42.09	53.98	11.89	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	42.56	8.85	V	51.41	73.98	22.57	PK
10600	30.32	8.85	V	39.17	53.98	14.81	AV
15900	43.11	11.90	V	55.01	73.98	18.97	PK
15900	30.65	11.90	V	42.55	53.98	11.43	AV
10600	43.92	8.85	H	52.77	73.98	21.21	PK
10600	30.52	8.85	H	39.37	53.98	14.61	AV
15900	44.09	11.90	H	55.99	73.98	17.99	PK
15900	30.78	11.90	H	42.68	53.98	11.30	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	43.10	9.25	V	52.35	73.98	21.63	PK
10640	29.81	9.25	V	39.06	53.98	14.92	AV
15960	43.49	10.55	V	54.04	73.98	19.94	PK
15960	30.54	10.55	V	41.09	53.98	12.89	AV
10640	43.63	9.25	H	52.88	73.98	21.10	PK
10640	29.92	9.25	H	39.17	53.98	14.81	AV
15960	44.31	10.55	H	54.86	73.98	19.12	PK
15960	30.93	10.55	H	41.48	53.98	12.50	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	44.49	10.23	V	54.72	73.98	19.26	PK
11000	29.75	10.23	V	39.98	53.98	14.00	AV
16500	48.04	11.62	V	59.66	68.20	8.54	PK
11000	43.75	10.23	H	53.98	73.98	20.00	PK
11000	29.63	10.23	H	39.86	53.98	14.12	AV
16500	47.44	11.62	H	59.06	68.20	9.14	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11160	44.07	10.09	V	54.16	73.98	19.82	PK
11160	29.69	10.09	V	39.78	53.98	14.20	AV
16740	49.61	11.27	V	60.88	68.20	7.32	PK
11160	44.02	10.09	H	54.11	73.98	19.87	PK
11160	29.45	10.09	H	39.54	53.98	14.44	AV
16740	48.53	11.27	H	59.80	68.20	8.40	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	43.13	9.39	V	52.52	73.98	21.46	PK
11440	29.45	9.39	V	38.84	53.98	15.14	AV
17160	48.45	12.91	V	61.36	68.20	6.84	PK
11440	42.89	9.39	H	52.28	73.98	21.70	PK
11440	29.31	9.39	H	38.70	53.98	15.28	AV
17160	47.35	12.91	H	60.26	68.20	7.94	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	42.69	9.31	V	52.00	73.98	21.98	PK
11490	28.90	9.31	V	38.21	53.98	15.77	AV
17235	46.66	14.49	V	61.15	68.20	7.05	PK
11490	43.44	9.31	H	52.75	73.98	21.23	PK
11490	29.45	9.31	H	38.76	53.98	15.22	AV
17235	47.34	14.49	H	61.83	68.20	6.37	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	41.94	9.38	V	51.32	73.98	22.66	PK
11570	28.89	9.38	V	38.27	53.98	15.71	AV
17355	46.46	15.74	V	62.20	68.20	6.00	PK
11570	42.80	9.38	H	52.18	73.98	21.80	PK
11570	28.97	9.38	H	38.35	53.98	15.63	AV
17355	47.83	15.74	H	63.57	68.20	4.63	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	42.60	8.33	V	50.93	73.98	23.05	PK
11650	30.50	8.33	V	38.83	53.98	15.15	AV
17475	47.59	16.79	V	64.38	68.20	3.82	PK
11650	43.38	8.33	H	51.71	73.98	22.27	PK
11650	30.66	8.33	H	38.99	53.98	14.99	AV
17475	48.28	16.79	H	65.07	68.20	3.13	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	44.69	6.54	V	51.23	68.20	16.97	PK
15570	44.62	11.95	V	56.57	73.98	17.41	PK
15570	32.08	11.95	V	44.03	53.98	9.95	AV
10380	45.11	6.54	H	51.65	68.20	16.55	PK
15570	45.14	11.95	H	57.09	73.98	16.89	PK
15570	32.25	11.95	H	44.20	53.98	9.78	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	43.14	7.97	V	51.11	68.20	17.09	PK
15690	44.28	12.00	V	56.28	73.98	17.70	PK
15690	31.15	12.00	V	43.15	53.98	10.83	AV
10460	43.67	7.97	H	51.64	68.20	16.56	PK
15690	44.52	12.00	H	56.52	73.98	17.46	PK
15690	31.32	12.00	H	43.32	53.98	10.66	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	44.47	8.71	V	53.18	68.20	15.02	PK
15810	42.19	11.51	V	53.70	73.98	20.28	PK
15810	30.05	11.51	V	41.56	53.98	12.42	AV
10540	44.67	8.71	H	53.38	68.20	14.82	PK
15810	42.75	11.51	H	54.26	73.98	19.72	PK
15810	30.12	11.51	H	41.63	53.98	12.35	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	43.24	8.62	V	51.86	73.98	22.12	PK
10620	30.55	8.62	V	39.17	53.98	14.81	AV
15930	43.79	10.63	V	54.42	73.98	19.56	PK
15930	31.02	10.63	V	41.65	53.98	12.33	AV
10620	44.41	8.62	H	53.03	73.98	20.95	PK
10620	30.86	8.62	H	39.48	53.98	14.50	AV
15930	43.92	10.63	H	54.55	73.98	19.43	PK
15930	31.25	10.63	H	41.88	53.98	12.10	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	43.21	9.89	V	53.10	73.98	20.88	PK
11020	30.34	9.89	V	40.23	53.98	13.75	AV
16530	45.48	11.59	V	57.07	68.20	11.13	PK
11020	42.59	9.89	H	52.48	73.98	21.50	PK
11020	30.29	9.89	H	40.18	53.98	13.80	AV
16530	44.60	11.59	H	56.19	68.20	12.01	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11100	41.91	9.73	V	51.64	73.98	22.34	PK
11100	29.34	9.73	V	39.07	53.98	14.91	AV
16650	46.44	11.12	V	57.56	68.20	10.64	PK
11100	41.18	9.73	H	50.91	73.98	23.07	PK
11100	29.29	9.73	H	39.02	53.98	14.96	AV
16650	44.98	11.12	H	56.10	68.20	12.10	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	43.33	9.18	V	52.51	73.98	21.47	PK
11420	29.92	9.18	V	39.10	53.98	14.88	AV
17130	44.95	13.20	V	58.15	68.20	10.05	PK
11420	42.88	9.18	H	52.06	73.98	21.92	PK
11420	29.71	9.18	H	38.89	53.98	15.09	AV
17130	44.38	13.20	H	57.58	68.20	10.62	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	42.81	9.19	V	52.00	73.98	21.98	PK
11510	29.82	9.19	V	39.01	53.98	14.97	AV
17265	45.09	14.32	V	59.41	68.20	8.79	PK
11510	43.38	9.19	H	52.57	73.98	21.41	PK
11510	29.99	9.19	H	39.18	53.98	14.80	AV
17265	45.74	14.32	H	60.06	68.20	8.14	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	42.55	9.46	V	52.01	73.98	21.97	PK
11590	29.59	9.46	V	39.05	53.98	14.93	AV
17385	44.80	15.37	V	60.17	68.20	8.03	PK
11590	42.95	9.46	H	52.41	73.98	21.57	PK
11590	29.78	9.46	H	39.24	53.98	14.74	AV
17385	45.20	15.37	H	60.57	68.20	7.63	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	44.39	6.54	V	50.93	68.20	17.27	PK
15570	45.22	11.95	V	57.17	73.98	16.81	PK
15570	31.77	11.95	V	43.72	53.98	10.26	AV
10380	44.83	6.54	H	51.37	68.20	16.83	PK
15570	45.55	11.95	H	57.50	73.98	16.48	PK
15570	32.02	11.95	H	43.97	53.98	10.01	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	43.05	7.97	V	51.02	68.20	17.18	PK
15690	43.96	12.00	V	55.96	73.98	18.02	PK
15690	31.51	12.00	V	43.51	53.98	10.47	AV
10460	43.63	7.97	H	51.60	68.20	16.60	PK
15690	44.69	12.00	H	56.69	73.98	17.29	PK
15690	31.67	12.00	H	43.67	53.98	10.31	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	43.75	8.71	V	52.46	68.20	15.74	PK
15810	42.94	11.51	V	54.45	73.98	19.53	PK
15810	30.01	11.51	V	41.52	53.98	12.46	AV
10540	44.62	8.71	H	53.33	68.20	14.87	PK
15810	43.10	11.51	H	54.61	73.98	19.37	PK
15810	30.25	11.51	H	41.76	53.98	12.22	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	43.23	8.62	V	51.85	73.98	22.13	PK
10620	30.15	8.62	V	38.77	53.98	15.21	AV
15930	43.92	10.63	V	54.55	73.98	19.43	PK
15930	30.61	10.63	V	41.24	53.98	12.74	AV
10620	43.57	8.62	H	52.19	73.98	21.79	PK
10620	30.44	8.62	H	39.06	53.98	14.92	AV
15930	44.14	10.63	H	54.77	73.98	19.21	PK
15930	30.68	10.63	H	41.31	53.98	12.67	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	43.24	9.89	V	53.13	73.98	20.85	PK
11020	30.14	9.89	V	40.03	53.98	13.95	AV
16530	46.09	11.59	V	57.68	68.20	10.52	PK
11020	42.89	9.89	H	52.78	73.98	21.20	PK
11020	30.20	9.89	H	40.09	53.98	13.89	AV
16530	45.84	11.59	H	57.43	68.20	10.77	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]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11000	41.92	9.73	V	51.65	73.98	22.33	PK
11000	29.42	9.73	V	39.15	53.98	14.83	AV
16500	45.41	11.12	V	56.53	68.20	11.67	PK
11000	41.43	9.73	H	51.16	73.98	22.82	PK
11000	29.23	9.73	H	38.96	53.98	15.02	AV
16500	44.74	11.12	H	55.86	68.20	12.34	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	43.12	9.18	V	52.30	73.98	21.68	PK
11420	30.03	9.18	V	39.21	53.98	14.77	AV
17130	45.50	13.20	V	58.70	68.20	9.50	PK
11420	42.77	9.18	H	51.95	73.98	22.03	PK
11420	29.97	9.18	H	39.15	53.98	14.83	AV
17130	44.44	13.20	H	57.64	68.20	10.56	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	42.56	9.19	V	51.75	73.98	22.23	PK
11510	29.72	9.19	V	38.91	53.98	15.07	AV
17265	44.61	14.32	V	58.93	68.20	9.27	PK
11510	42.89	9.19	H	52.08	73.98	21.90	PK
11510	30.04	9.19	H	39.23	53.98	14.75	AV
17265	45.36	14.32	H	59.68	68.20	8.52	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	42.86	9.46	V	52.32	73.98	21.66	PK
11590	29.73	9.46	V	39.19	53.98	14.79	AV
17385	44.52	15.37	V	59.89	68.20	8.31	PK
11590	43.15	9.46	H	52.61	73.98	21.37	PK
11590	29.80	9.46	H	39.26	53.98	14.72	AV
17385	44.92	15.37	H	60.29	68.20	7.91	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	43.72	7.88	V	51.60	68.20	16.60	PK
15630	44.31	12.05	V	56.36	73.98	17.62	PK
15630	31.45	12.05	V	43.50	53.98	10.48	AV
10420	44.23	7.88	H	52.11	68.20	16.09	PK
15630	44.73	12.05	H	56.78	73.98	17.20	PK
15630	31.83	12.05	H	43.88	53.98	10.10	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	43.36	8.83	V	52.19	68.20	16.01	PK
15870	43.79	11.15	V	54.94	73.98	19.04	PK
15870	30.83	11.15	V	41.98	53.98	12.00	AV
10580	44.14	8.83	H	52.97	68.20	15.23	PK
15870	43.93	11.15	H	55.08	73.98	18.90	PK
15870	31.15	11.15	H	42.30	53.98	11.68	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	42.68	9.83	V	52.51	73.98	21.47	PK
11060	30.06	9.83	V	39.89	53.98	14.09	AV
16590	45.06	11.80	V	56.86	68.20	11.34	PK
11060	42.38	9.83	H	52.21	73.98	21.77	PK
11060	29.95	9.83	H	39.78	53.98	14.20	AV
16590	44.09	11.80	H	55.89	68.20	12.31	PK

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

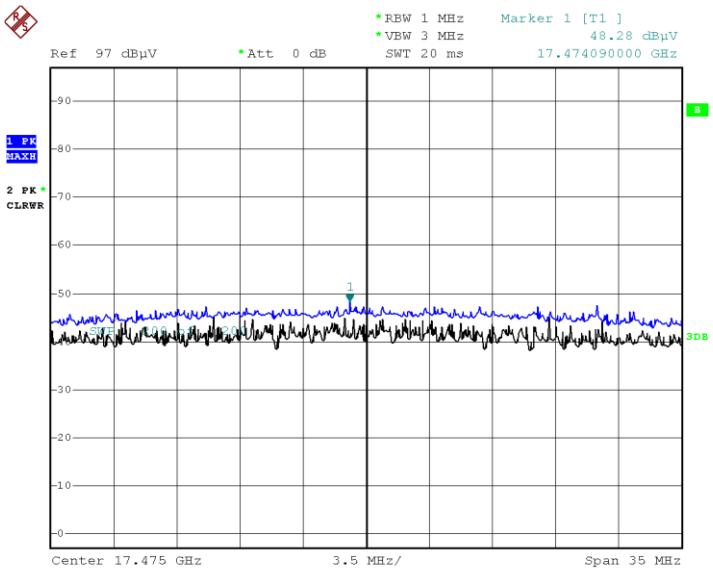
Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11380	43.13	9.91	V	53.04	73.98	20.94	PK
11380	30.13	9.91	V	40.04	53.98	13.94	AV
17070	43.84	12.72	V	56.56	68.20	11.64	PK
11380	42.42	9.91	H	52.33	73.98	21.65	PK
11380	29.85	9.91	H	39.76	53.98	14.22	AV
17070	43.36	12.72	H	56.08	68.20	12.12	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	41.87	8.90	V	50.77	73.98	23.21	PK
11550	29.44	8.90	V	38.34	53.98	15.64	AV
17325	44.81	15.33	V	60.14	68.20	8.06	PK
11550	42.41	8.90	H	51.31	73.98	22.67	PK
11550	29.49	8.90	H	38.39	53.98	15.59	AV
17325	45.70	15.33	H	61.03	68.20	7.17	PK

▣ Test Plots

Peak Reading (802.11a, Ch.165 3rd Harmonic, Z-V)



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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	54.62	5.75	H	60.37	73.98	13.61	PK
5150	40.98	5.75	H	46.73	53.98	7.25	AV
5150	55.23	5.75	V	60.98	73.98	13.00	PK
5150	41.61	5.75	V	47.36	53.98	6.62	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+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	52.40	6.66	H	59.06	73.98	14.92	PK
5350	40.78	6.66	H	47.44	53.98	6.54	AV
5350	53.55	6.66	V	60.21	73.98	13.77	PK
5350	40.97	6.66	V	47.63	53.98	6.35	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	50.66	6.08	H	56.74	73.98	17.24	PK
5460	37.68	6.08	H	43.76	53.98	10.22	AV
5470	50.95	6.19	H	57.14	68.20	11.06	PK
5460	51.93	6.08	V	58.01	73.98	15.97	PK
5460	38.83	6.08	V	44.91	53.98	9.07	AV
5470	52.06	6.19	V	58.25	68.20	9.95	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+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5725	51.33	7.07	H	58.40	68.20	9.80	PK
5725	50.29	7.07	V	57.36	68.20	10.84	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	52.34	5.75	H	58.09	73.98	15.89	PK
5150	39.76	5.75	H	45.51	53.98	8.47	AV
5150	53.61	5.75	V	59.36	73.98	14.62	PK
5150	40.42	5.75	V	46.17	53.98	7.81	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	54.29	6.66	H	60.95	73.98	13.03	PK
5350	40.43	6.66	H	47.09	53.98	6.89	AV
5350	55.51	6.66	V	62.17	73.98	11.81	PK
5350	40.56	6.66	V	47.22	53.98	6.76	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	52.42	6.08	H	58.50	73.98	15.48	PK
5460	38.78	6.08	H	44.86	53.98	9.12	AV
5470	53.19	6.19	H	59.38	68.20	8.82	PK
5460	53.24	6.08	V	59.32	73.98	14.66	PK
5460	39.09	6.08	V	45.17	53.98	8.81	AV
5470	53.32	6.19	V	59.51	68.20	8.69	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT20
Transfer MCS Index:	0
Operating Frequency	5720 MHz
Channel No.	144 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
5850	51.84	7.07	H	58.91	68.20	9.29	PK
5850	50.90	7.07	V	57.97	68.20	10.23	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	53.66	5.75	H	59.41	73.98	14.57	PK
5150	40.55	5.75	H	46.3	53.98	7.68	AV
5150	54.64	5.75	V	60.39	73.98	13.59	PK
5150	41.19	5.75	V	46.94	53.98	7.04	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5320 MHz
Channel No.	64 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	54.93	6.66	H	61.59	73.98	12.39	PK
5350	40.23	6.66	H	46.89	53.98	7.09	AV
5350	55.36	6.66	V	62.02	73.98	11.96	PK
5350	40.46	6.66	V	47.12	53.98	6.86	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	51.10	6.08	H	57.18	73.98	16.80	PK
5460	38.57	6.08	H	44.65	53.98	9.33	AV
5470	52.26	6.19	H	58.45	68.20	9.75	PK
5460	52.30	6.08	V	58.38	73.98	15.60	PK
5460	38.64	6.08	V	44.72	53.98	9.26	AV
5470	52.89	6.19	V	59.08	68.20	9.12	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT20
Transfer MCS Index:	0
Operating Frequency	5720 MHz
Channel No.	144 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
5850	51.33	7.07	H	58.40	68.20	9.80	PK
5850	50.87	7.07	V	57.94	68.20	10.26	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	58.74	5.75	H	64.49	73.98	9.49	PK
5150	44.61	5.75	H	50.36	53.98	3.62	AV
5150	60.44	5.75	V	66.19	73.98	7.79	PK
5150	45.68	5.75	V	51.43	53.98	2.55	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	51.67	5.75	H	57.42	73.98	16.56	PK
5150	39.37	5.75	H	45.12	53.98	8.86	AV
5150	52.16	5.75	V	57.91	73.98	16.07	PK
5150	40.03	5.75	V	45.78	53.98	8.20	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 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	51.18	6.66	H	57.84	73.98	16.14	PK
5350	38.94	6.66	H	45.6	53.98	8.38	AV
5350	52.78	6.66	V	59.44	73.98	14.54	PK
5350	39.06	6.66	V	45.72	53.98	8.26	AV

Band :	UNII 1
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	59.67	6.66	H	66.33	73.98	7.65	PK
5350	44.71	6.66	H	51.37	53.98	2.61	AV
5350	60.07	6.66	V	66.73	73.98	7.25	PK
5350	44.82	6.66	V	51.48	53.98	2.50	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	55.03	6.08	H	61.11	73.98	12.87	PK
5460	39.95	6.08	H	46.03	53.98	7.95	AV
5470	56.28	6.19	H	62.47	68.20	5.73	PK
5460	56.06	6.08	V	62.14	73.98	11.84	PK
5460	40.18	6.08	V	46.26	53.98	7.72	AV
5470	56.87	6.19	V	63.06	68.20	5.14	PK

Band :	UNII 2C
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	51.43	7.07	H	58.50	68.20	9.70	PK
5850	50.91	7.07	V	57.98	68.20	10.22	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	59.08	5.75	H	64.83	73.98	9.15	PK
5150	44.70	5.75	H	50.45	53.98	3.53	AV
5150	59.87	5.75	V	65.62	73.98	8.36	PK
5150	45.73	5.75	V	51.48	53.98	2.50	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5230 MHz
Channel No.	46 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	50.70	5.75	H	56.45	73.98	17.53	PK
5150	39.37	5.75	H	45.12	53.98	8.86	AV
5150	51.35	5.75	V	57.1	73.98	16.88	PK
5150	39.66	5.75	V	45.41	53.98	8.57	AV

Band :	UNII 1
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5270 MHz
Channel No.	54 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	49.53	6.66	H	56.19	73.98	17.79	PK
5350	38.48	6.66	H	45.14	53.98	8.84	AV
5350	50.36	6.66	V	57.02	73.98	16.96	PK
5350	38.96	6.66	V	45.62	53.98	8.36	AV

Band :	UNII 2A
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	58.61	6.66	H	65.27	73.98	8.71	PK
5350	44.10	6.66	H	50.76	53.98	3.22	AV
5350	59.37	6.66	V	66.03	73.98	7.95	PK
5350	44.83	6.66	V	51.49	53.98	2.49	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	56.88	6.08	H	62.96	73.98	11.02	PK
5460	40.14	6.08	H	46.22	53.98	7.76	AV
5470	56.95	6.19	H	63.14	68.20	5.06	PK
5460	56.13	6.08	V	62.21	73.98	11.77	PK
5460	39.86	6.08	V	45.94	53.98	8.04	AV
5470	56.62	6.19	V	62.81	68.20	5.39	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT40
Transfer MCS Index:	0
Operating Frequency	5710 MHz
Channel No.	142 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	51.26	7.07	H	58.33	68.20	9.87	PK
5850	50.92	7.07	V	57.99	68.20	10.21	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. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	60.28	5.75	H	66.03	73.98	7.95	PK
5150	45.98	5.75	H	51.73	53.98	2.25	AV
5150	60.55	5.75	V	66.3	73.98	7.68	PK
5150	46.19	5.75	V	51.94	53.98	2.04	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	57.09	6.66	H	63.75	73.98	10.23	PK
5350	43.13	6.66	H	49.79	53.98	4.19	AV
5350	57.26	6.66	V	63.92	73.98	10.06	PK
5350	43.88	6.66	V	50.54	53.98	3.44	AV

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5530 MHz
Channel No.	106 Ch

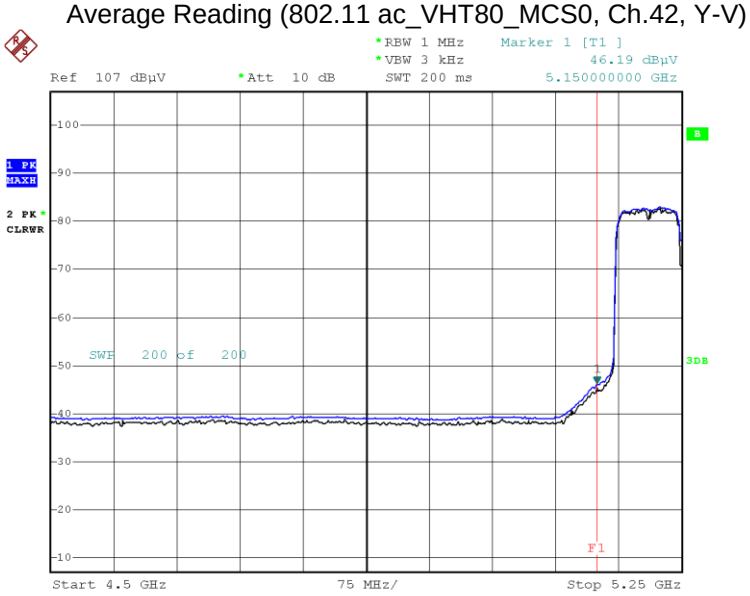
Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	56.50	6.08	H	62.58	73.98	11.40	PK
5460	41.00	6.08	H	47.08	53.98	6.90	AV
5470	58.91	6.19	H	65.1	68.20	3.10	PK
5460	56.95	6.08	V	63.03	73.98	10.95	PK
5460	41.18	6.08	V	47.26	53.98	6.72	AV
5470	58.34	6.19	V	64.53	68.20	3.67	PK

Band :	UNII 2C
Operation Mode:	802.11 ac_VHT80
Transfer MCS Index:	0
Operating Frequency	5690 MHz
Channel No.	138 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5850	51.41	7.07	H	58.48	68.20	9.72	PK
5850	51.07	7.07	V	58.14	68.20	10.06	PK

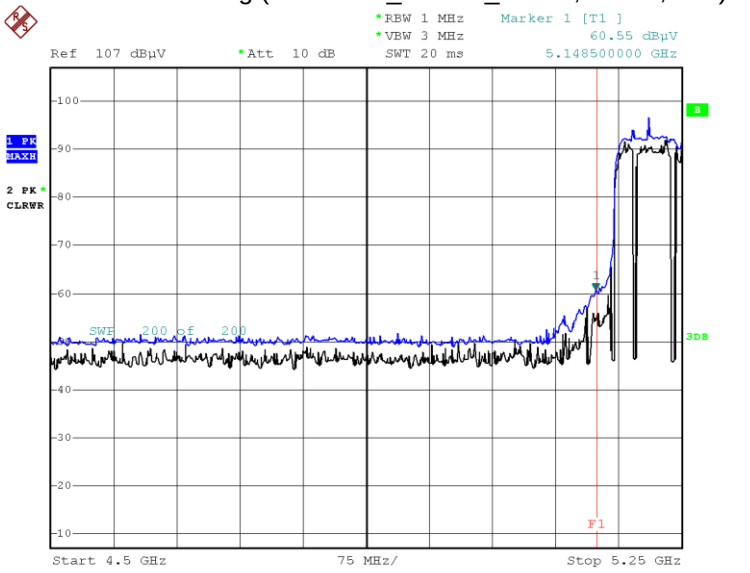
▣ Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11 ac_VHT80_MCS0, Ch.42, Y-V)



Date: 6.DEC.2019 15:48:34

Peak Reading (802.11 ac_VHT80_MCS0, Ch.42, Y-V)



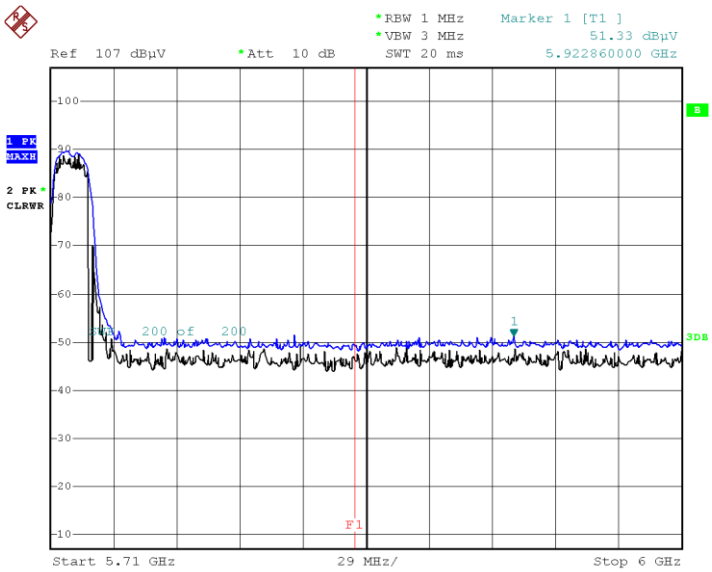
Date: 6.DEC.2019 15:50:36

Note:

Only the worst case plots for Radiated Restricted Band Edge.

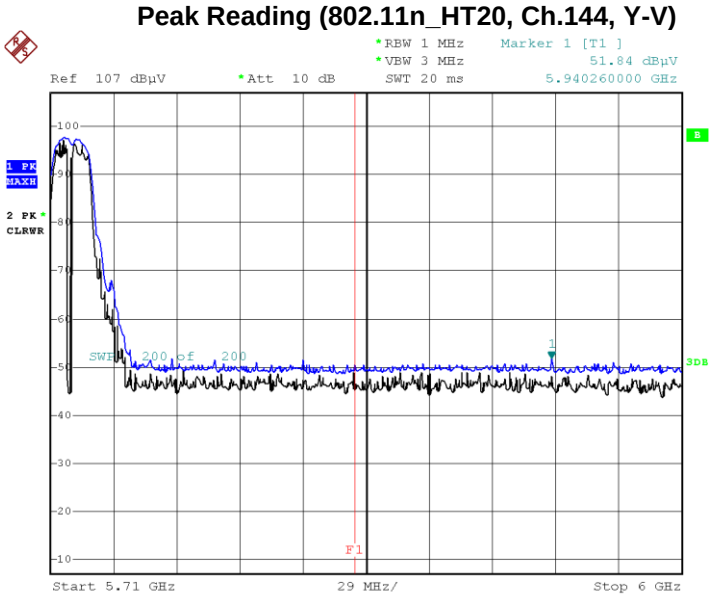
▣ Test Plots(Staraddle Channel)

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



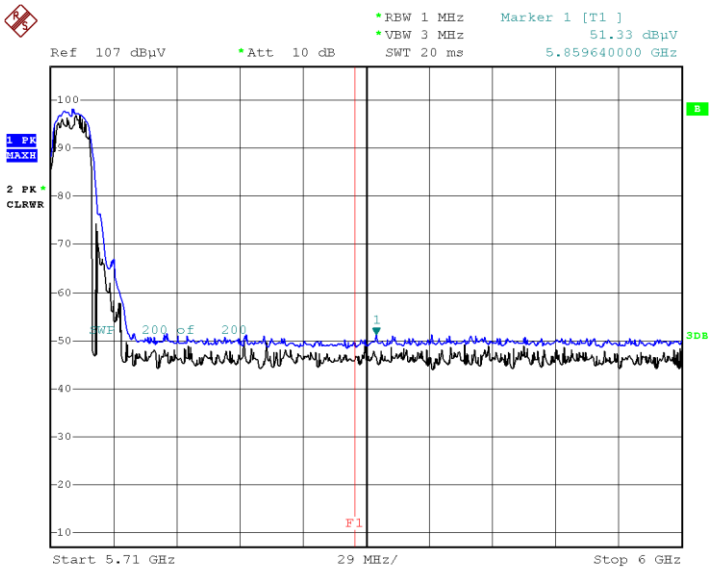
Date: 5.DEC.2019 09:26:01

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



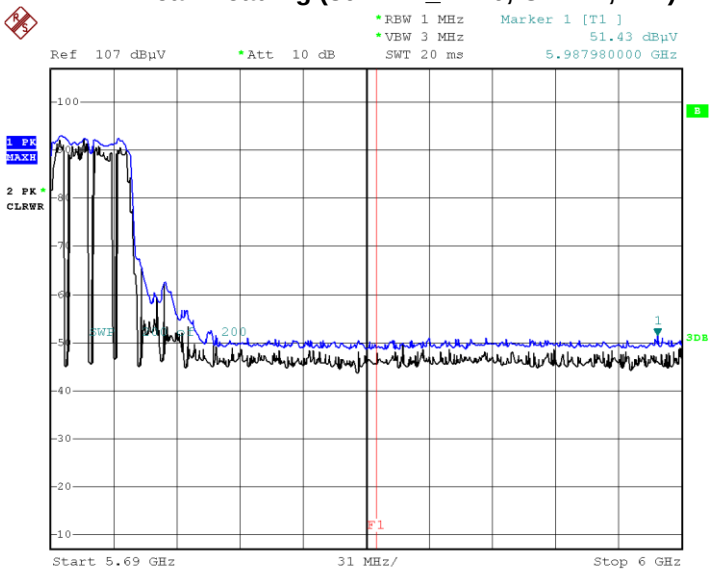
Date: 5.DEC.2019 09:28:04

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



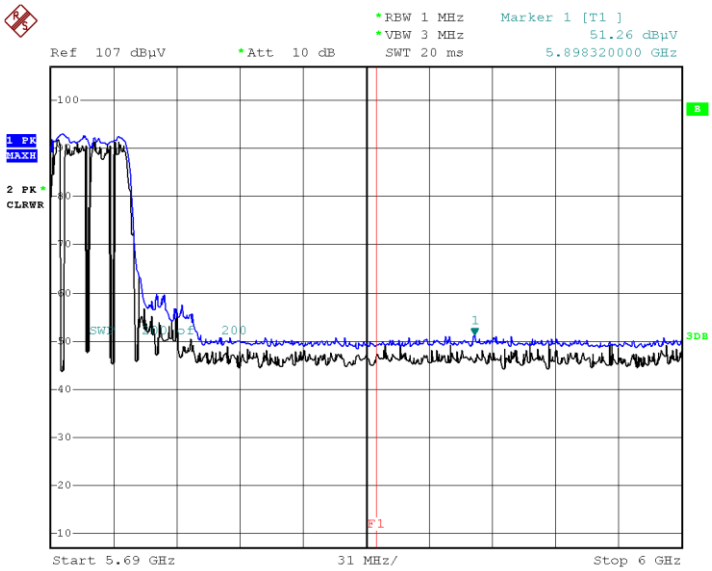
Date: 5.DEC.2019 09:29:50

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



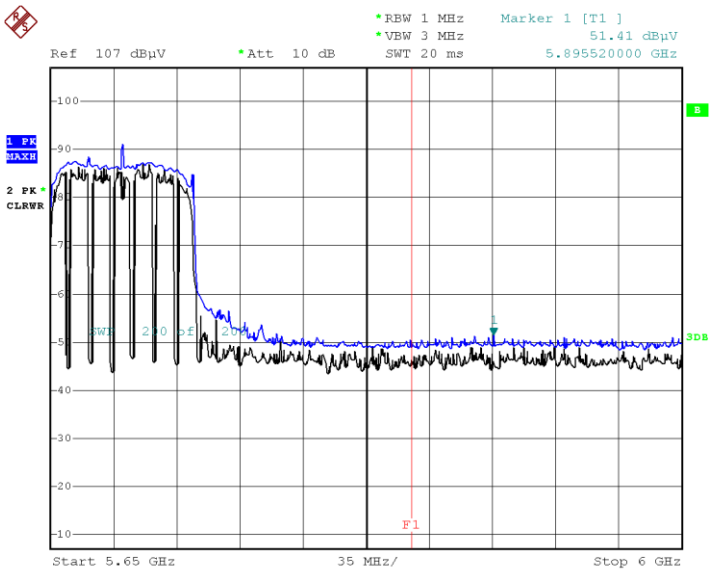
Date: 5.DEC.2019 09:31:24

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



Date: 5.DEC.2019 09:32:50

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



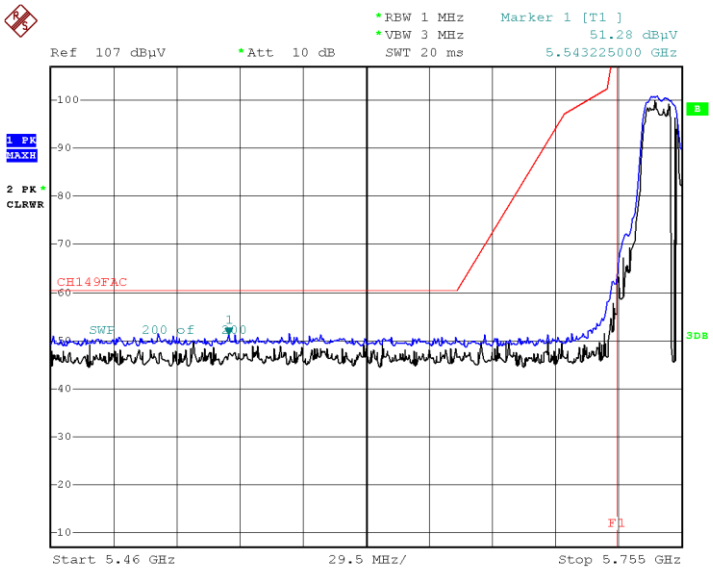
Date: 5.DEC.2019 09:34:32

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)

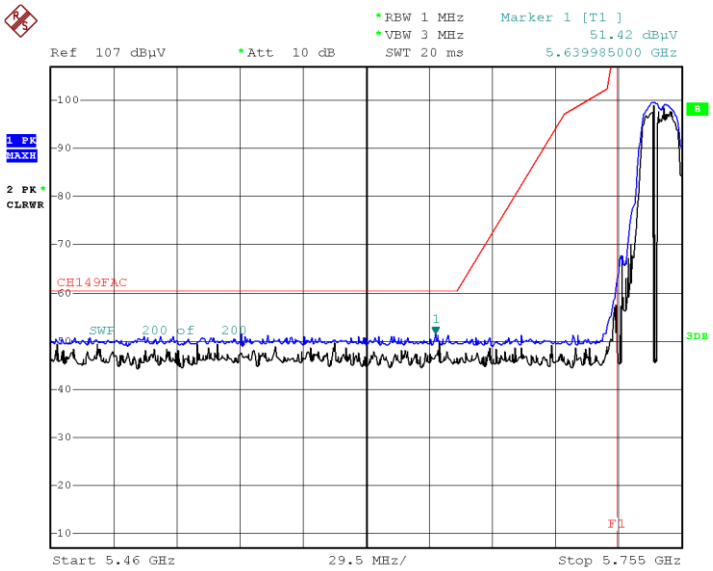
▣ Test Plots(UNII 3)

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



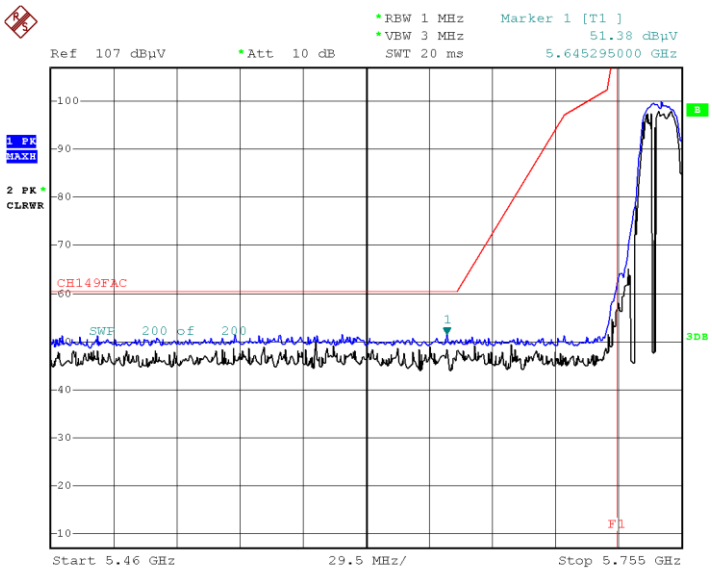
Date: 5.DEC.2019 09:00:21

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



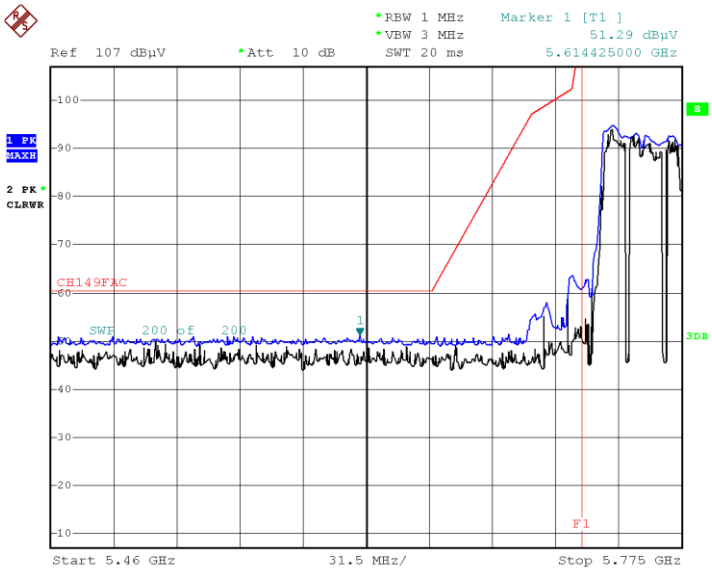
Date: 5.DEC.2019 09:01:38

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



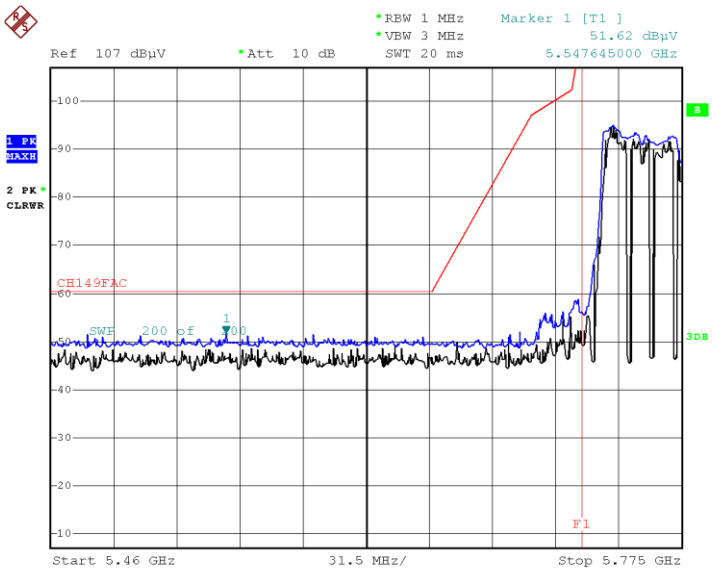
Date: 5.DEC.2019 09:03:15

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



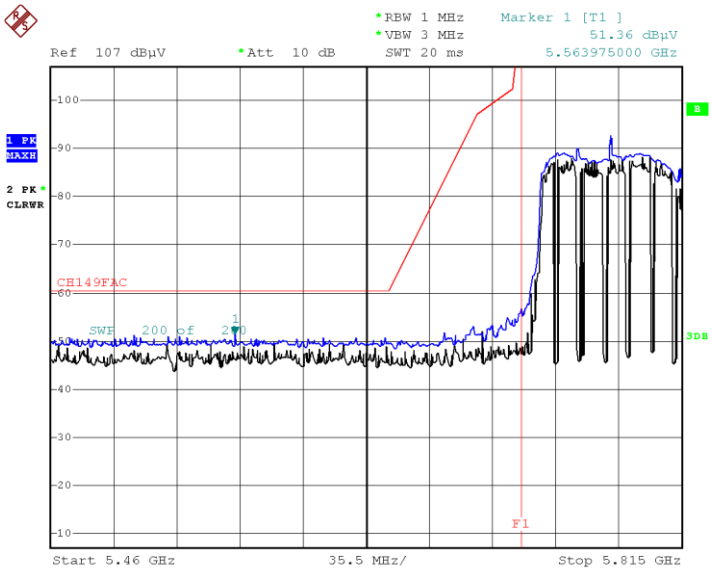
Date: 5.DEC.2019 09:05:00

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



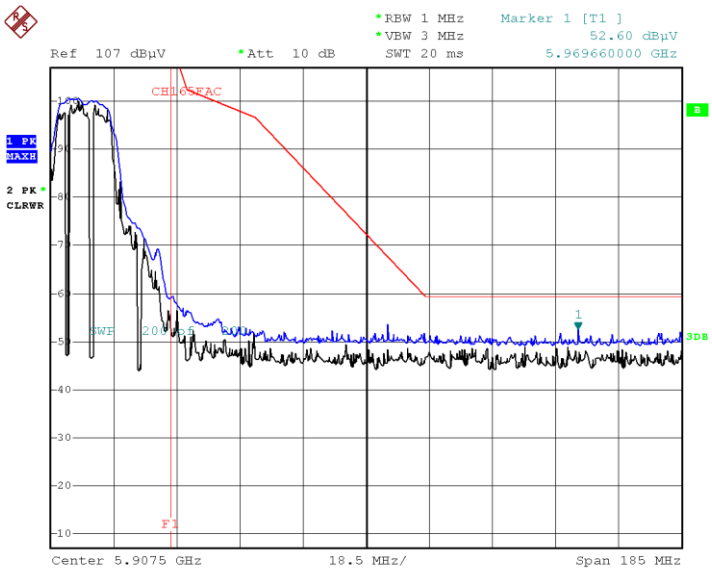
Date: 5.DEC.2019 09:06:07

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



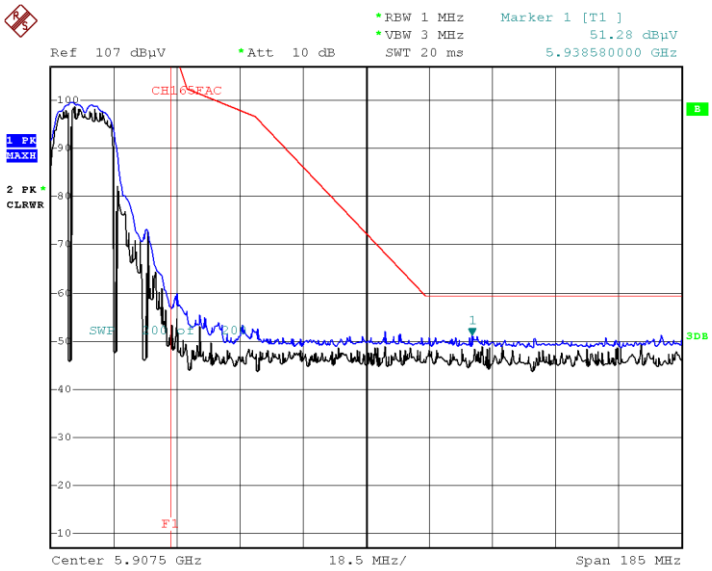
Date: 5.DEC.2019 09:08:13

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



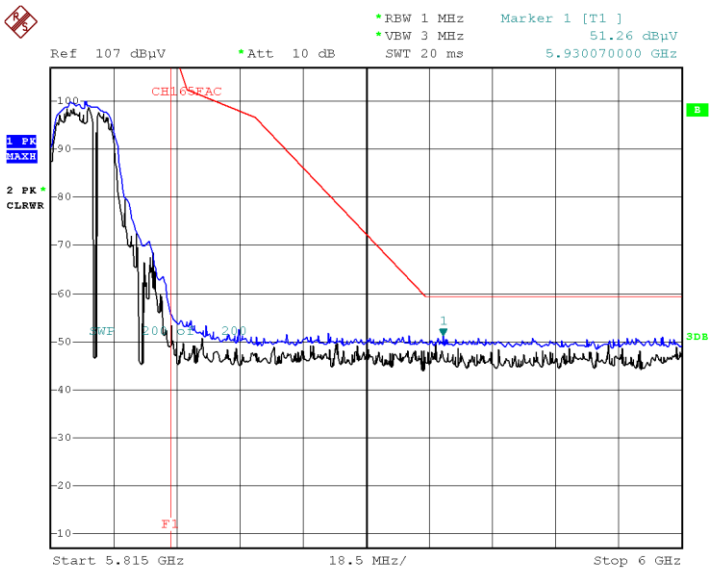
Date: 4.DEC.2019 21:56:29

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



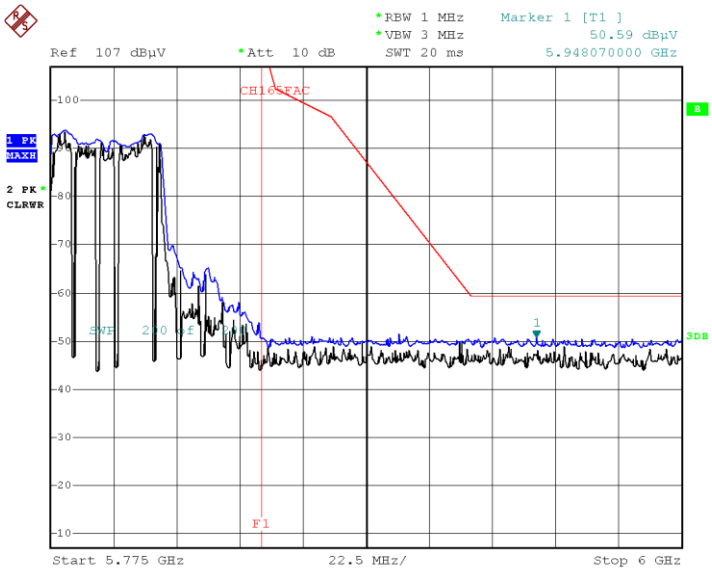
Date: 4.DEC.2019 21:57:52

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



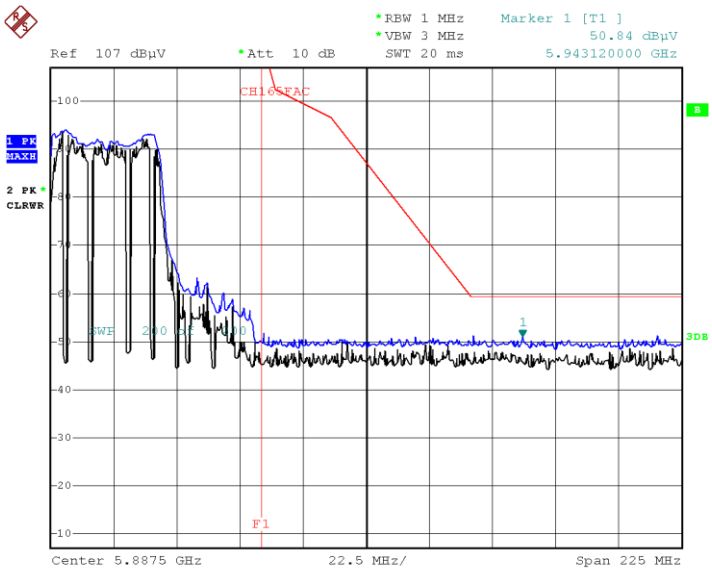
Date: 4.DEC.2019 21:58:52

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



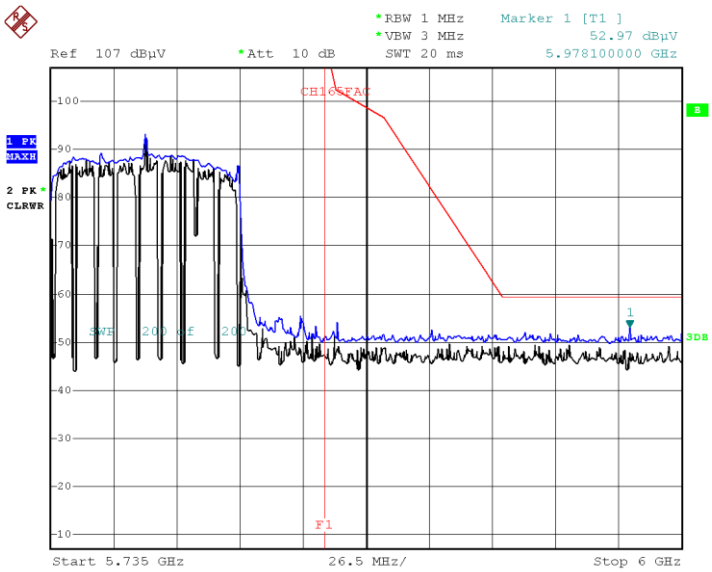
Date: 4.DEC.2019 22:00:22

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



Date: 4.DEC.2019 22:01:13

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



Date: 5.DEC.2019 08:30:29

10.10 RECEIVER SPURIOUS EMISSIONS

Frequency Range : Below 1 GHz

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

Note:

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

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

10.11 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

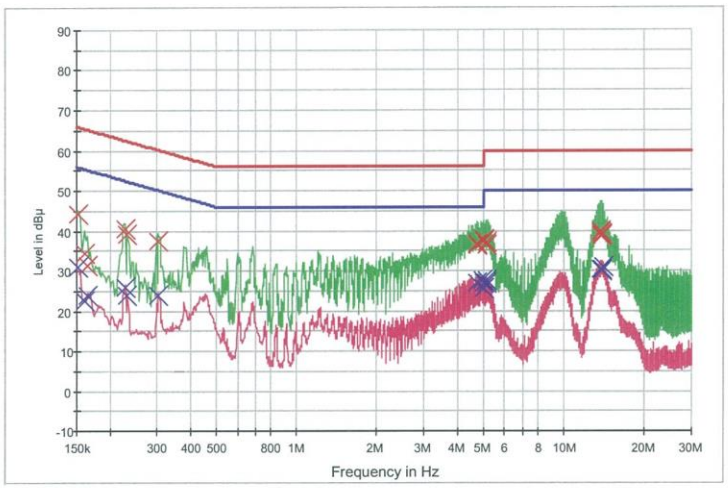
Test 1 / 2

HCT TEST Report

Common Information

EUT:	SM-G715FN/DS
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN_5G_L1

FCC CLASS B_Exten Cable



FCC CLASS B_QP
Preview Result 2-AVG
FCC CLASS B_ AV
Final Result 1-QPK
Preview Result 1-PK+
Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.152000	44.3	9.000	Off	L1	9.8	21.6	65.9
0.160000	34.3	9.000	Off	L1	9.8	31.2	65.5
0.164000	31.5	9.000	Off	L1	9.8	33.8	65.3
0.228000	40.7	9.000	Off	L1	9.8	21.9	62.5
0.232000	39.2	9.000	Off	L1	9.8	23.2	62.4
0.304000	37.4	9.000	Off	L1	9.8	22.7	60.1
4.730000	36.7	9.000	Off	L1	10.0	19.3	56.0
4.734000	36.6	9.000	Off	L1	10.0	19.4	56.0
5.026000	37.7	9.000	Off	L1	10.1	22.3	60.0
5.032000	37.5	9.000	Off	L1	10.1	22.5	60.0
5.102000	37.2	9.000	Off	L1	10.1	22.8	60.0
5.112000	36.5	9.000	Off	L1	10.1	23.5	60.0
13.644000	39.9	9.000	Off	L1	10.4	20.1	60.0
13.656000	39.7	9.000	Off	L1	10.4	20.3	60.0
13.670000	38.7	9.000	Off	L1	10.4	21.3	60.0
13.728000	39.5	9.000	Off	L1	10.4	20.5	60.0
13.826000	38.9	9.000	Off	L1	10.5	21.1	60.0
13.888000	39.2	9.000	Off	L1	10.5	20.8	60.0

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Test 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	30.9	9.000	Off	L1	9.8	25.0	55.9
0.160000	22.5	9.000	Off	L1	9.8	33.0	55.5
0.164000	23.9	9.000	Off	L1	9.8	31.4	55.3
0.228000	26.1	9.000	Off	L1	9.8	26.4	52.5
0.232000	24.0	9.000	Off	L1	9.8	28.3	52.4
0.304000	23.9	9.000	Off	L1	9.8	26.2	50.1
4.728000	27.0	9.000	Off	L1	10.0	19.0	46.0
4.954000	27.5	9.000	Off	L1	10.1	18.5	46.0
5.020000	25.4	9.000	Off	L1	10.1	24.6	50.0
5.024000	26.9	9.000	Off	L1	10.1	23.1	50.0
5.102000	26.9	9.000	Off	L1	10.1	23.1	50.0
5.112000	27.5	9.000	Off	L1	10.1	22.5	50.0
13.656000	30.3	9.000	Off	L1	10.4	19.7	50.0
13.670000	30.2	9.000	Off	L1	10.4	19.8	50.0
13.728000	30.3	9.000	Off	L1	10.4	19.7	50.0
13.826000	30.1	9.000	Off	L1	10.5	19.9	50.0
13.888000	30.2	9.000	Off	L1	10.5	19.8	50.0
13.950000	30.9	9.000	Off	L1	10.5	19.1	50.0

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Conducted Emissions (Line 2)

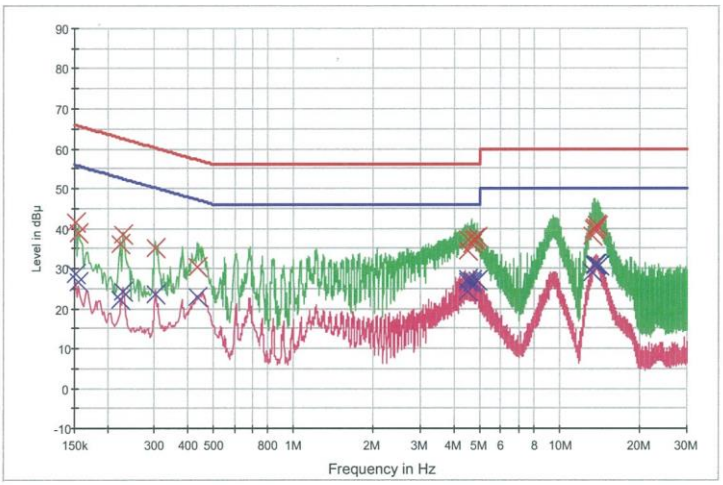
Test 1 / 2

HCT TEST Report

Common Information

EUT:	SM-G715FN/DS
Manufacturer:	SAMSUNG
Test Site:	SHIELD ROOM
Operating Conditions:	WLAN_5G_N

FCC CLASS B_Exten Cable



FCC CLASS B_QP
Preview Result 2-AVG
FCC CLASS B_ AV
Final Result 1-QPK
Preview Result 1-PK+
Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	41.5	9.000	Off	N	9.8	24.4	65.9
0.156000	38.9	9.000	Off	N	9.8	26.7	65.7
0.224000	36.1	9.000	Off	N	9.8	26.6	62.7
0.228000	38.6	9.000	Off	N	9.8	24.0	62.5
0.302000	35.1	9.000	Off	N	9.8	25.1	60.2
0.434000	30.3	9.000	Off	N	9.8	26.8	57.2
4.486000	34.4	9.000	Off	N	10.0	21.6	56.0
4.516000	37.0	9.000	Off	N	10.0	19.0	56.0
4.646000	36.1	9.000	Off	N	10.0	19.9	56.0
4.728000	37.1	9.000	Off	N	10.0	18.9	56.0
4.802000	37.5	9.000	Off	N	10.1	18.5	56.0
4.876000	37.8	9.000	Off	N	10.1	18.2	56.0
13.210000	38.2	9.000	Off	N	10.5	21.8	60.0
13.430000	40.0	9.000	Off	N	10.5	20.0	60.0
13.566000	40.1	9.000	Off	N	10.5	19.9	60.0
13.588000	39.6	9.000	Off	N	10.5	20.4	60.0
13.646000	40.8	9.000	Off	N	10.5	19.2	60.0
13.870000	40.6	9.000	Off	N	10.5	19.4	60.0

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Test 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	28.5	9.000	Off	N	9.8	27.4	55.9
0.156000	26.7	9.000	Off	N	9.8	29.0	55.7
0.224000	22.1	9.000	Off	N	9.8	30.6	52.7
0.228000	24.3	9.000	Off	N	9.8	28.2	52.5
0.304000	23.5	9.000	Off	N	9.8	26.6	50.1
0.434000	23.0	9.000	Off	N	9.8	24.2	47.2
4.486000	24.2	9.000	Off	N	10.0	21.8	46.0
4.500000	26.5	9.000	Off	N	10.0	19.5	46.0
4.504000	27.4	9.000	Off	N	10.0	18.6	46.0
4.646000	26.3	9.000	Off	N	10.0	19.7	46.0
4.652000	27.1	9.000	Off	N	10.0	18.9	46.0
4.876000	26.9	9.000	Off	N	10.1	19.1	46.0
13.210000	28.9	9.000	Off	N	10.5	21.1	50.0
13.566000	30.9	9.000	Off	N	10.5	19.1	50.0
13.588000	30.7	9.000	Off	N	10.5	19.3	50.0
13.646000	30.9	9.000	Off	N	10.5	19.1	50.0
13.726000	31.0	9.000	Off	N	10.5	19.0	50.0
13.954000	30.8	9.000	Off	N	10.5	19.2	50.0

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11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	09/11/2019	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/18/2019	Annual	100584
EXP	EX-TH064 /Temperature Chamber	03/12/2019	Annual	NONE
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	05/09/2019	Annual	MY49432108
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
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
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/31/2018	Biennial	00895
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/09/2018	Biennial	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	06/28/2019	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	04/29/2019	Biennial	BBHA9170342
Rohde & Schwarz	FSP(9 kHz ~ 40 GHz) / Spectrum Analyzer	07/16/2019	Annual	100843
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	01/03/2019	Annual	F6
Wainwright Instruments	WHFX7.0/18G-8SS / High Pass Filter	05/03/2019	Annual	29
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	01/03/2019	Annual	2
Weinschel	2-3 / Attenuator (3 dB)	10/08/2019	Annual	BR0617
H+S	5910-N-50-010 / Attenuator(10 dB)	10/29/2019	Annual	None
CERNEX	CBLU1183540B-01 / Power Amplifier	12/21/2018	Annual	25540
CERNEX	CBL06185030 / Power Amplifier	03/26/2019	Annual	28550
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	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.
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-2001-FI005-P