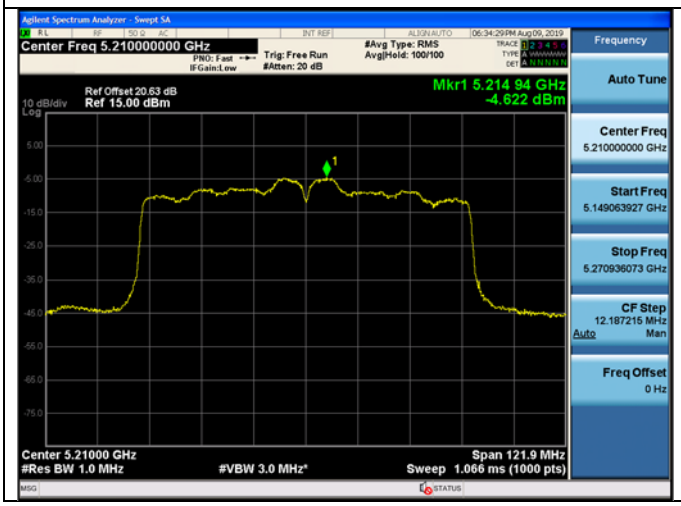
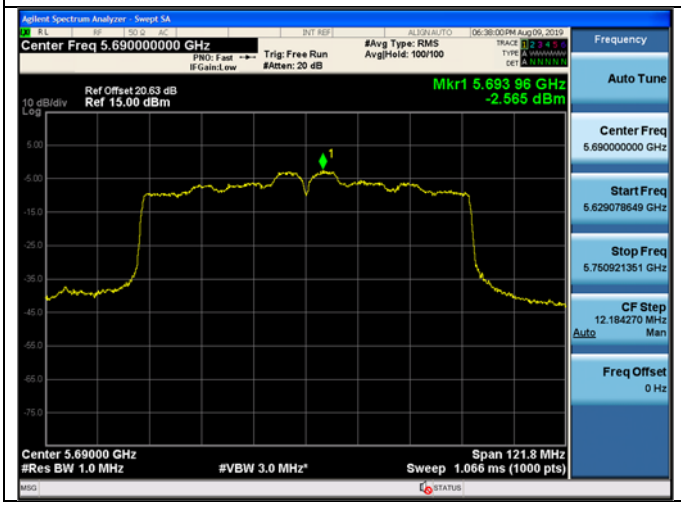
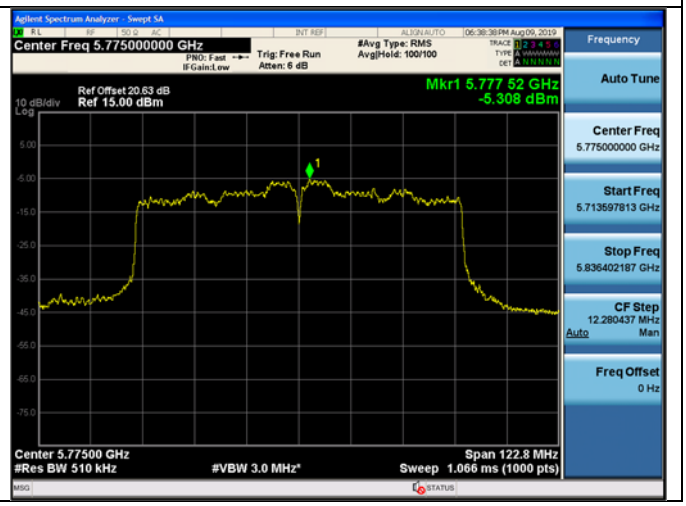
▣ Test Plots(802.11ac(VHT80))

Note:

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

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

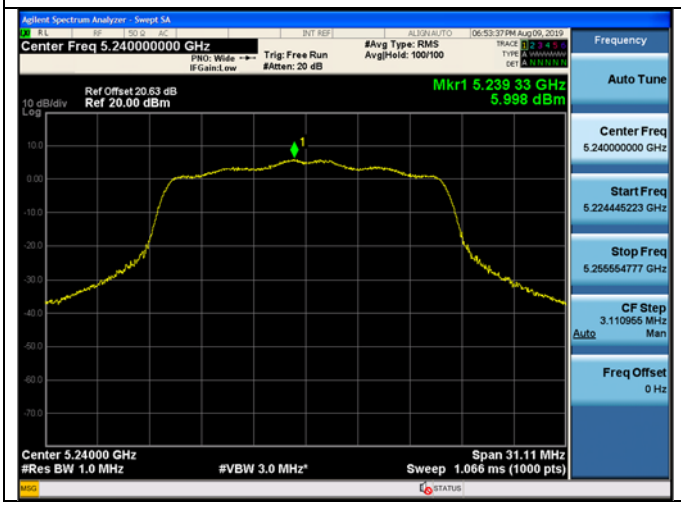
UNII 2C (Ch. 138)	UNII 3 (Ch. 155)
	

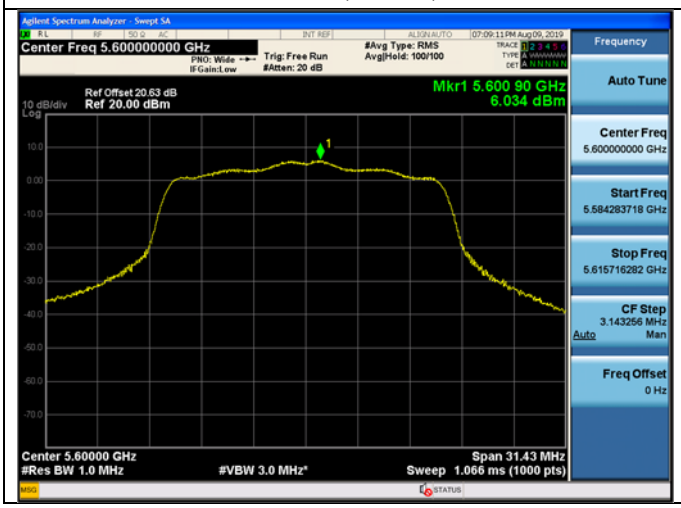
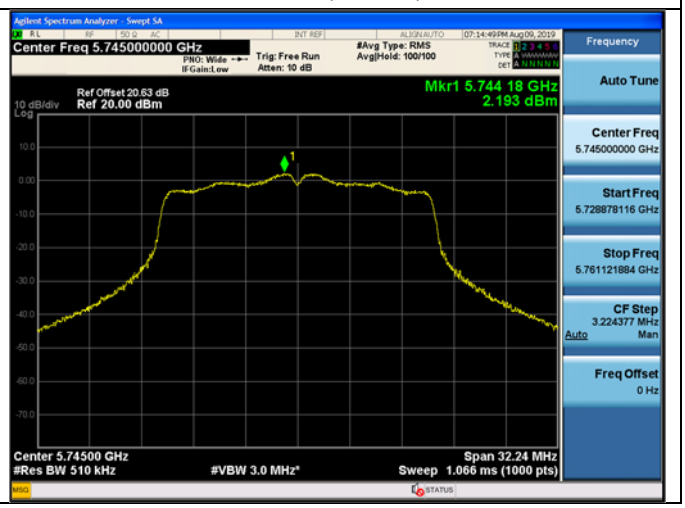
[ANT2]

▣ Test Plots(802.11a)

Note:

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

UNII 1 (Ch. 48)	UNII 2A (Ch. 52)
	

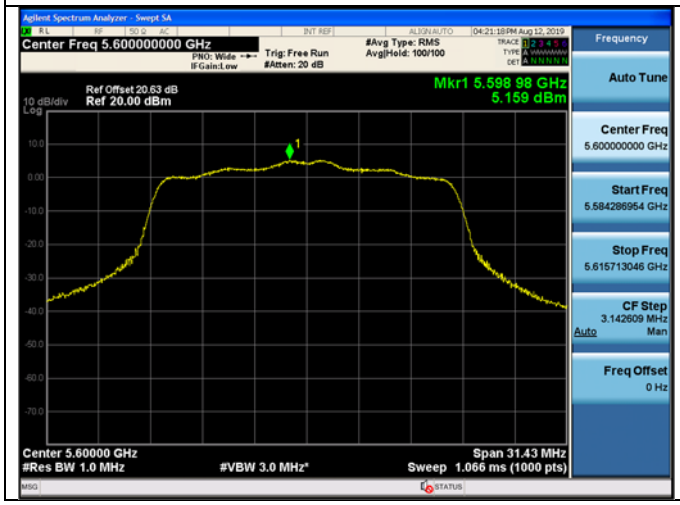
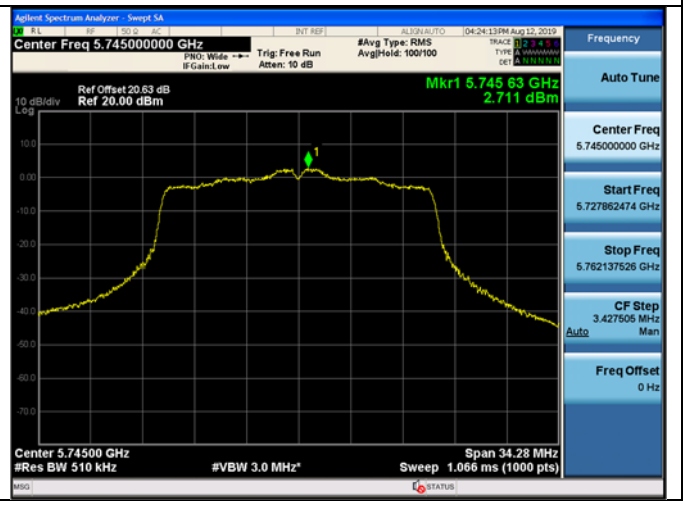
UNII 2C (Ch. 120)	UNII 3 (Ch. 149)
	

▣ Test Plots(802.11n(HT20))

Note:

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

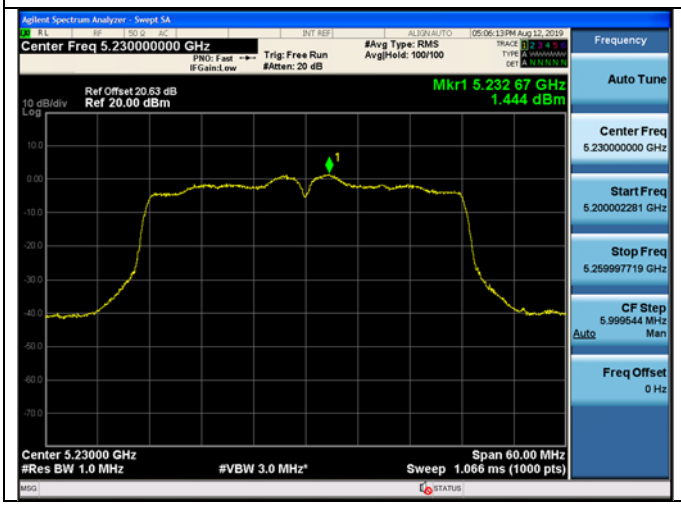
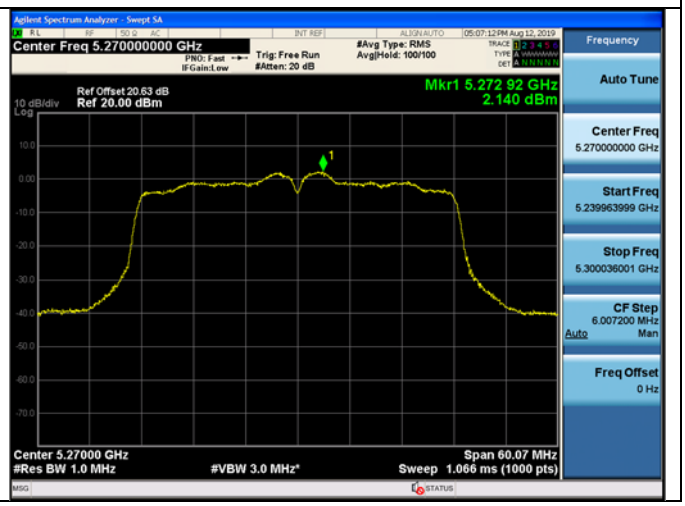
UNII 1 (Ch. 48)	UNII 2A (Ch. 52)
	

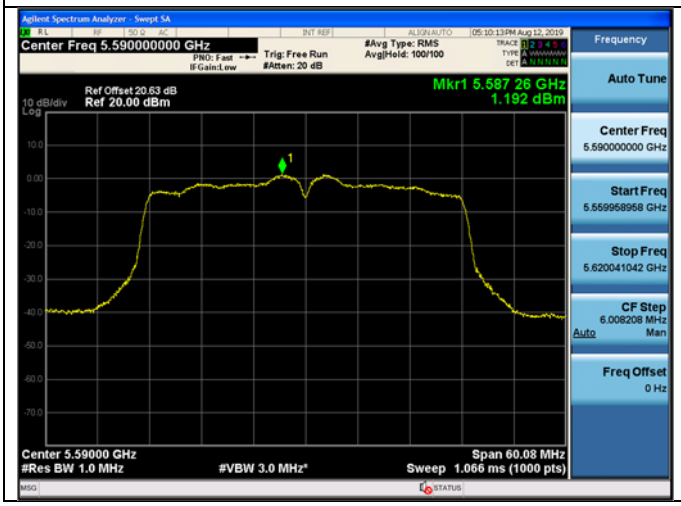
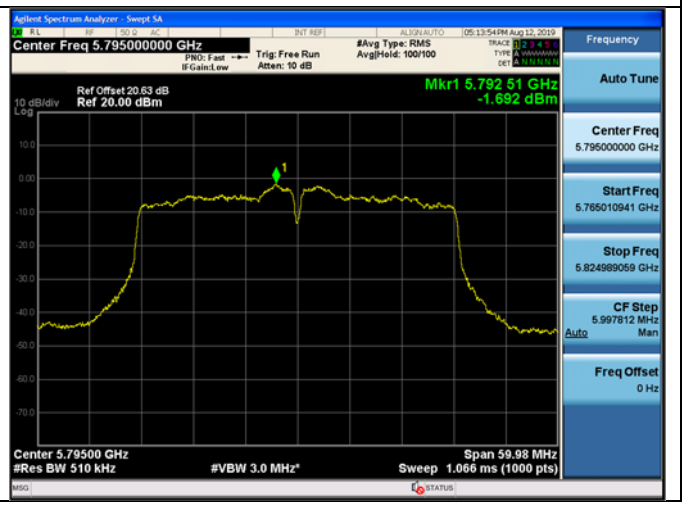
UNII 2C (Ch. 120)	UNII 3 (Ch. 149)
	

▣ Test Plots(802.11n(HT40))

Note:

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

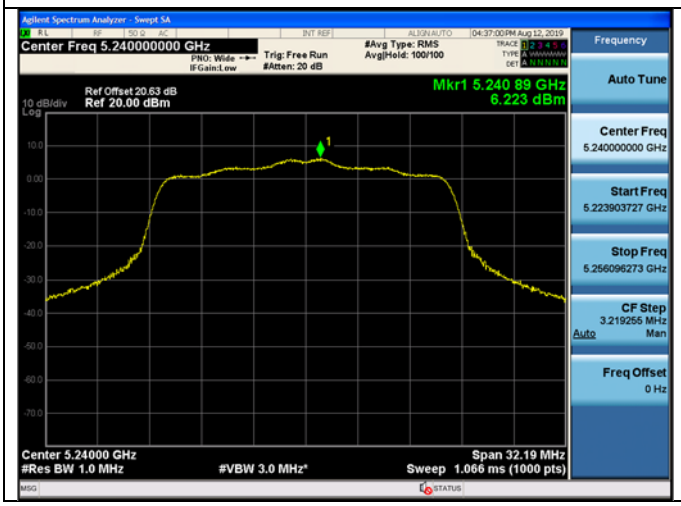
UNII 1 (Ch. 46)	UNII 2A (Ch. 54)
	

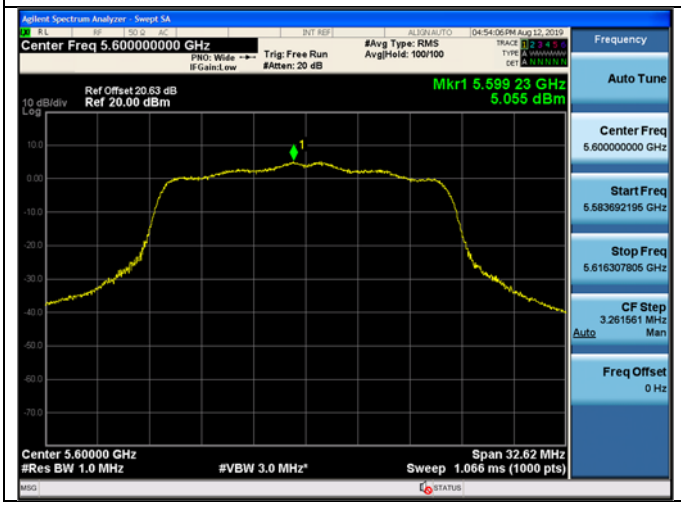
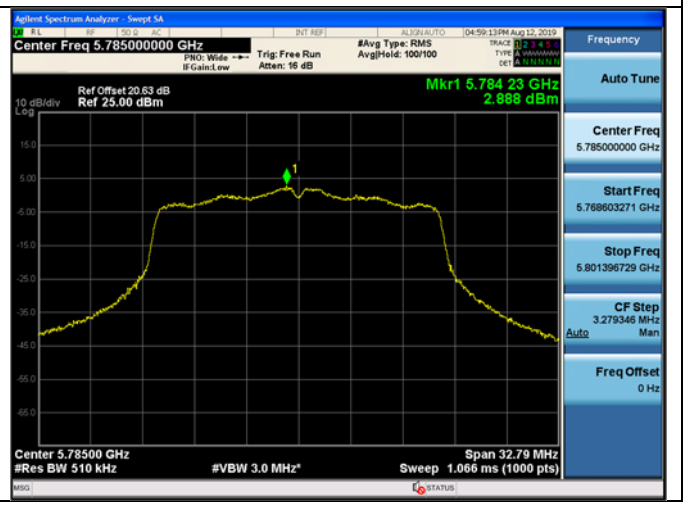
UNII 2C (Ch. 118)	UNII 3 (Ch. 159)
	

▣ Test Plots(802.11ac(VHT20))

Note:

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

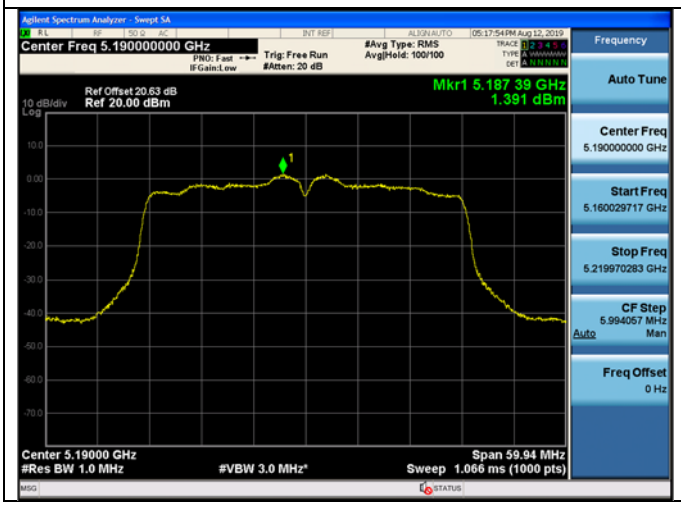
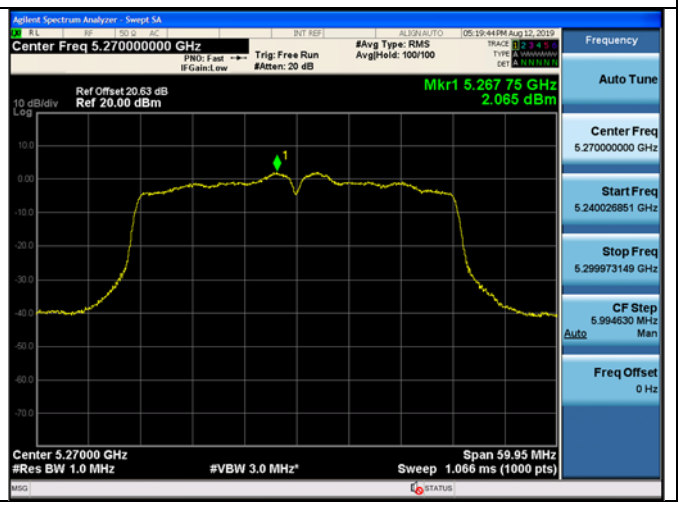
UNII 1 (Ch. 48)	UNII 2A (Ch. 52)
	

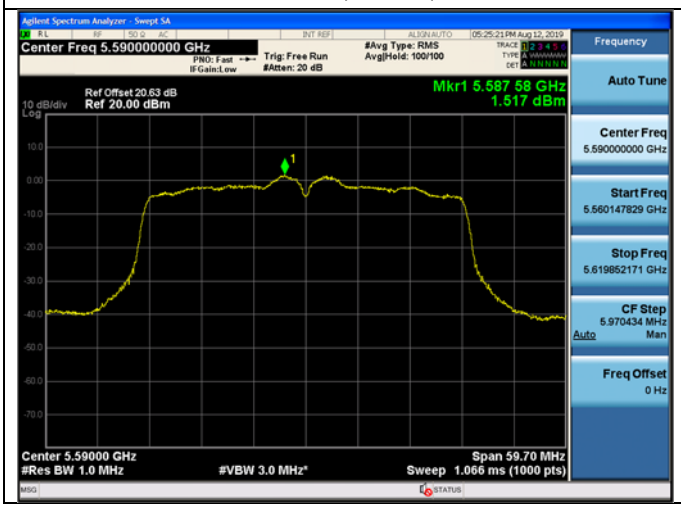
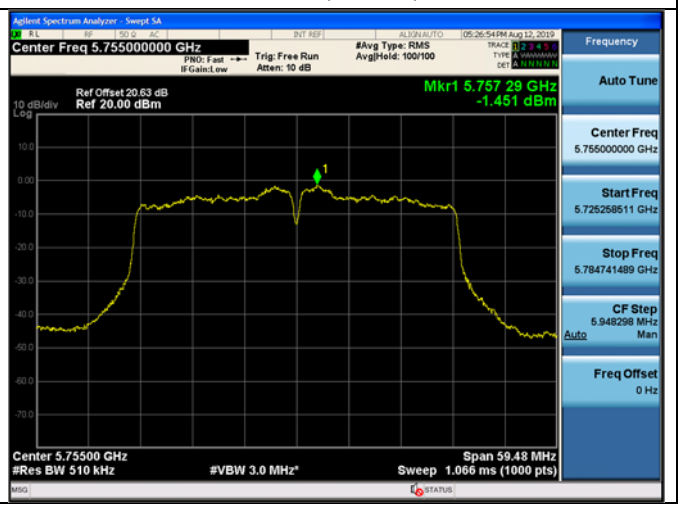
UNII 2C (Ch. 120)	UNII 3 (Ch. 157)
	

▣ Test Plots(802.11ac(VHT40))

Note:

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

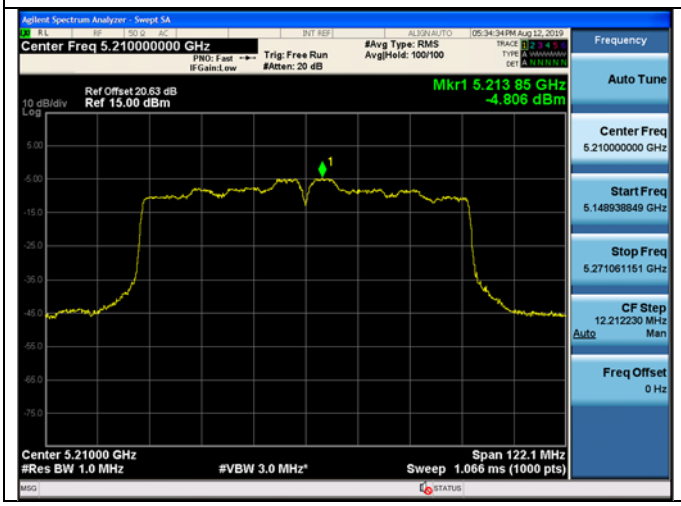
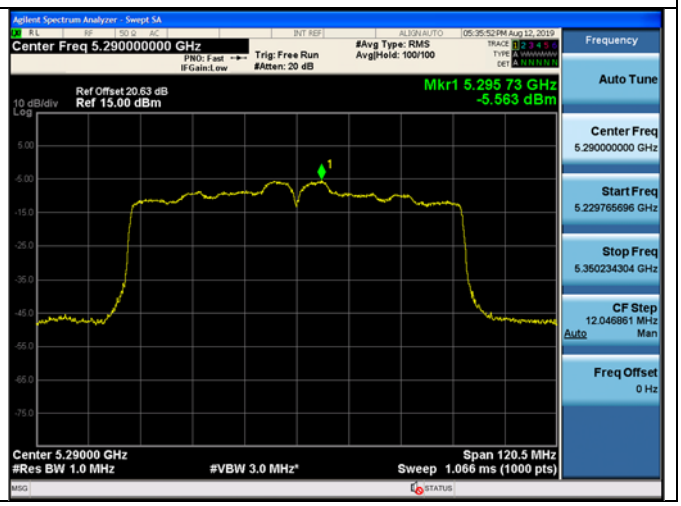
UNII 1 (Ch. 38)	UNII 2A (Ch. 54)
	

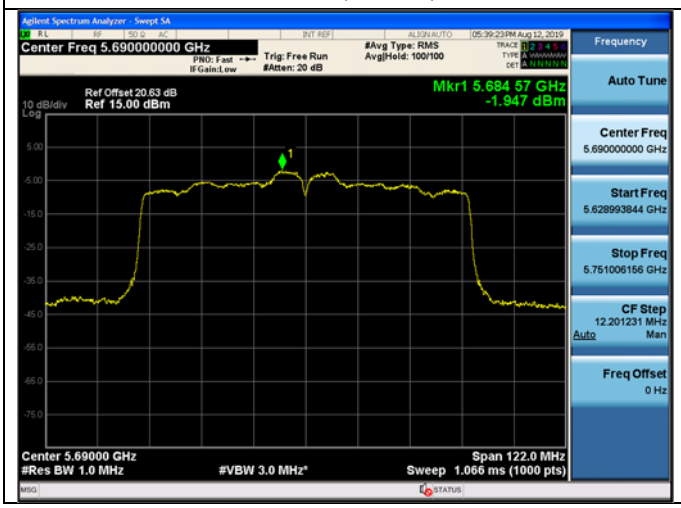
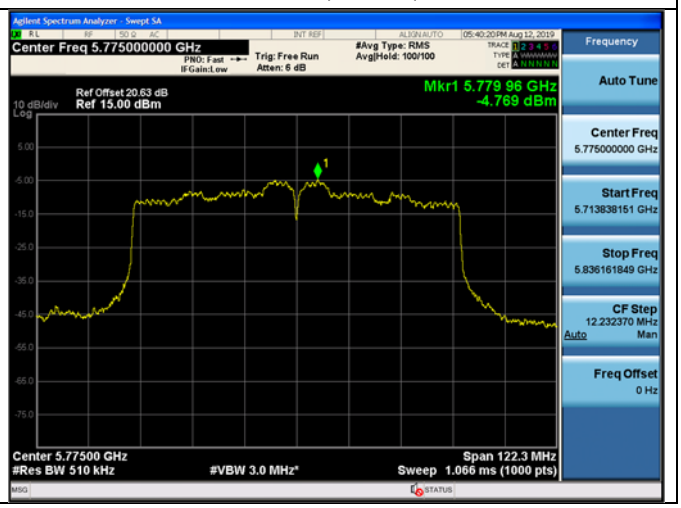
UNII 2C (Ch. 118)	UNII 3 (Ch. 151)
	

▣ 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

[ANT1]

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210030.78	30.78
100%		-30	5210054.89	54.89
100%		-20	5210047.70	47.70
100%		-10	5210040.61	40.61
100%		0	5210035.56	35.56
100%		+10	5210033.26	33.26
100%		+30	5210034.19	34.19
100%		+40	5210043.81	43.81
100%		+50	5210049.30	49.30
Low	3.65	+20	5210048.29	48.29
High	4.40	+20	5210043.98	43.98

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290029.94	29.94
100%		-30	5290054.61	54.61
100%		-20	5290046.64	46.64
100%		-10	5290040.74	40.74
100%		0	5290035.88	35.88
100%		+10	5290031.97	31.97
100%		+30	5290033.73	33.73
100%		+40	5290043.07	43.07
100%		+50	5290049.05	49.05
Low	3.65	+20	5290046.96	46.96
High	4.40	+20	5290043.75	43.75

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530031.20	31.20
100%		-30	5530056.04	56.04
100%		-20	5530049.61	49.61
100%		-10	5530044.18	44.18
100%		0	5530039.92	39.92
100%		+10	5530035.99	35.99
100%		+30	5530033.57	33.57
100%		+40	5530043.97	43.97
100%		+50	5530049.95	49.95
Low	3.65	+20	5530048.22	48.22
High	4.40	+20	5530047.27	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 3
OPERATING FREQUENCY: 5,775,000,000 Hz
CHANNEL: 155
REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775028.71	28.71
100%		-30	5775051.94	51.94
100%		-20	5775045.65	45.65
100%		-10	5775039.19	39.19
100%		0	5775034.72	34.72
100%		+10	5775031.62	31.62
100%		+30	5775032.35	32.35
100%		+40	5775042.53	42.53
100%		+50	5775047.94	47.94
Low	3.65	+20	5775046.30	46.30
High	4.40	+20	5775043.67	43.67

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.

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210032.55	32.55
100%		-30	5210057.07	57.07
100%		-20	5210049.94	49.94
100%		-10	5210044.37	44.37
100%		0	5210041.04	41.04
100%		+10	5210037.31	37.31
100%		+30	5210035.14	35.14
100%		+40	5210044.61	44.61
100%		+50	5210049.44	49.44
Low	3.65	+20	5210050.72	50.72
High	4.40	+20	5210048.12	48.12

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290032.46	32.46
100%		-30	5290056.99	56.99
100%		-20	5290049.76	49.76
100%		-10	5290044.08	44.08
100%		0	5290039.96	39.96
100%		+10	5290036.71	36.71
100%		+30	5290036.27	36.27
100%		+40	5290044.26	44.26
100%		+50	5290049.17	49.17
Low	3.65	+20	5290050.55	50.55
High	4.40	+20	5290047.78	47.78

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530030.69	30.69
100%		-30	5530054.96	54.96
100%		-20	5530047.96	47.96
100%		-10	5530041.63	41.63
100%		0	5530036.69	36.69
100%		+10	5530034.42	34.42
100%		+30	5530034.55	34.55
100%		+40	5530043.59	43.59
100%		+50	5530049.37	49.37
Low	3.65	+20	5530047.91	47.91
High	4.40	+20	5530046.25	46.25

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775033.39	33.39
100%		-30	5775056.74	56.74
100%		-20	5775050.04	50.04
100%		-10	5775043.21	43.21
100%		0	5775038.66	38.66
100%		+10	5775035.62	35.62
100%		+30	5775035.93	35.93
100%		+40	5775045.65	45.65
100%		+50	5775048.88	48.88
Low	3.65	+20	5775053.16	53.16
High	4.40	+20	5775047.05	47.05

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210030.05	30.05
100%		-30	5210053.11	53.11
100%		-20	5210046.80	46.80
100%		-10	5210040.77	40.77
100%		0	5210036.21	36.21
100%		+10	5210033.19	33.19
100%		+30	5210032.97	32.97
100%		+40	5210042.02	42.02
100%		+50	5210046.60	46.60
Low	3.65	+20	5210048.47	48.47
High	4.40	+20	5210043.27	43.27

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290034.57	34.57
100%		-30	5290058.26	58.26
100%		-20	5290051.91	51.91
100%		-10	5290045.08	45.08
100%		0	5290040.29	40.29
100%		+10	5290037.26	37.26
100%		+30	5290038.46	38.46
100%		+40	5290047.69	47.69
100%		+50	5290053.41	53.41
Low	3.65	+20	5290051.85	51.85
High	4.40	+20	5290049.71	49.71

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530027.71	27.71
100%		-30	5530050.80	50.80
100%		-20	5530043.13	43.13
100%		-10	5530037.22	37.22
100%		0	5530033.63	33.63
100%		+10	5530030.45	30.45
100%		+30	5530031.08	31.08
100%		+40	5530039.68	39.68
100%		+50	5530044.29	44.29
Low	3.65	+20	5530046.10	46.10
High	4.40	+20	5530043.24	43.24

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: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775030.19	30.19
100%		-30	5775054.62	54.62
100%		-20	5775047.57	47.57
100%		-10	5775040.92	40.92
100%		0	5775036.36	36.36
100%		+10	5775032.89	32.89
100%		+30	5775034.28	34.28
100%		+40	5775044.10	44.10
100%		+50	5775048.49	48.49
Low	3.65	+20	5775048.80	48.80
High	4.40	+20	5775046.17	46.17

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210031.26	31.26
100%		-30	5210054.32	54.32
100%		-20	5210046.42	46.42
100%		-10	5210040.86	40.86
100%		0	5210036.14	36.14
100%		+10	5210032.71	32.71
100%		+30	5210034.41	34.41
100%		+40	5210043.01	43.01
100%		+50	5210047.63	47.63
Low	3.65	+20	5210049.64	49.64
High	4.40	+20	5210045.73	45.73

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290033.20	33.20
100%		-30	5290057.06	57.06
100%		-20	5290049.56	49.56
100%		-10	5290042.82	42.82
100%		0	5290038.49	38.49
100%		+10	5290034.69	34.69
100%		+30	5290037.28	37.28
100%		+40	5290045.10	45.10
100%		+50	5290049.91	49.91
Low	3.65	+20	5290051.39	51.39
High	4.40	+20	5290048.16	48.16

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530031.14	31.14
100%		-30	5530054.24	54.24
100%		-20	5530047.43	47.43
100%		-10	5530040.83	40.83
100%		0	5530036.47	36.47
100%		+10	5530034.35	34.35
100%		+30	5530034.30	34.30
100%		+40	5530042.16	42.16
100%		+50	5530047.32	47.32
Low	3.65	+20	5530048.98	48.98
High	4.40	+20	5530045.62	45.62

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775032.92	32.92
100%		-30	5775056.84	56.84
100%		-20	5775049.47	49.47
100%		-10	5775043.15	43.15
100%		0	5775039.68	39.68
100%		+10	5775037.13	37.13
100%		+30	5775037.00	37.00
100%		+40	5775045.77	45.77
100%		+50	5775050.95	50.95
Low	3.65	+20	5775050.74	50.74
High	4.40	+20	5775046.21	46.21

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.

[ANT2]

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210033.08	33.08
100%		-30	5210057.80	57.80
100%		-20	5210050.71	50.71
100%		-10	5210043.62	43.62
100%		0	5210039.23	39.23
100%		+10	5210035.55	35.55
100%		+30	5210036.85	36.85
100%		+40	5210045.87	45.87
100%		+50	5210050.59	50.59
Low	3.65	+20	5210051.36	51.36
High	4.40	+20	5210047.98	47.98

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290031.75	31.75
100%		-30	5290055.60	55.60
100%		-20	5290047.72	47.72
100%		-10	5290041.49	41.49
100%		0	5290037.41	37.41
100%		+10	5290035.14	35.14
100%		+30	5290033.96	33.96
100%		+40	5290043.29	43.29
100%		+50	5290048.48	48.48
Low	3.65	+20	5290049.56	49.56
High	4.40	+20	5290045.35	45.35

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530032.21	32.21
100%		-30	5530055.53	55.53
100%		-20	5530048.83	48.83
100%		-10	5530042.40	42.4
100%		0	5530038.55	38.55
100%		+10	5530036.28	36.28
100%		+30	5530034.50	34.5
100%		+40	5530044.28	44.28
100%		+50	5530047.54	47.54
Low	3.65	+20	5530051.95	51.95
High	4.40	+20	5530046.86	46.86

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775029.87	29.87
100%		-30	5775053.71	53.71
100%		-20	5775045.94	45.94
100%		-10	5775039.21	39.21
100%		0	5775035.19	35.19
100%		+10	5775031.64	31.64
100%		+30	5775032.87	32.87
100%		+40	5775041.08	41.08
100%		+50	5775046.92	46.92
Low	3.65	+20	5775047.03	47.03
High	4.40	+20	5775044.93	44.93

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210032.92	32.92
100%		-30	5210057.05	57.05
100%		-20	5210050.50	50.50
100%		-10	5210044.23	44.23
100%		0	5210041.06	41.06
100%		+10	5210038.43	38.43
100%		+30	5210036.92	36.92
100%		+40	5210046.02	46.02
100%		+50	5210049.97	49.97
Low	3.65	+20	5210051.97	51.97
High	4.40	+20	5210046.27	46.27

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290030.36	30.36
100%		-30	5290055.24	55.24
100%		-20	5290048.02	48.02
100%		-10	5290042.61	42.61
100%		0	5290038.63	38.63
100%		+10	5290036.42	36.42
100%		+30	5290033.59	33.59
100%		+40	5290044.35	44.35
100%		+50	5290050.35	50.35
Low	3.65	+20	5290047.36	47.36
High	4.40	+20	5290044.27	44.27

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 2C

OPERATING FREQUENCY: 5,530,000,000 Hz

CHANNEL: 106

REFERENCE VOLTAGE: 3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530034.64	34.64
100%		-30	5530059.14	59.14
100%		-20	5530052.14	52.14
100%		-10	5530046.05	46.05
100%		0	5530041.57	41.57
100%		+10	5530038.67	38.67
100%		+30	5530037.27	37.27
100%		+40	5530046.11	46.11
100%		+50	5530050.67	50.67
Low	3.65	+20	5530053.08	53.08
High	4.40	+20	5530050.26	50.26

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775036.10	36.10
100%		-30	5775060.98	60.98
100%		-20	5775053.14	53.14
100%		-10	5775046.05	46.05
100%		0	5775042.81	42.81
100%		+10	5775039.27	39.27
100%		+30	5775038.55	38.55
100%		+40	5775047.81	47.81
100%		+50	5775051.44	51.44
Low	3.65	+20	5775055.47	55.47
High	4.40	+20	5775049.78	49.78

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210032.44	32.44
100%		-30	5210056.34	56.34
100%		-20	5210049.92	49.92
100%		-10	5210044.27	44.27
100%		0	5210039.72	39.72
100%		+10	5210036.44	36.44
100%		+30	5210036.21	36.21
100%		+40	5210046.36	46.36
100%		+50	5210051.32	51.32
Low	3.65	+20	5210050.48	50.48
High	4.40	+20	5210047.24	47.24

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 2A
OPERATING FREQUENCY:	5,290,000,000 Hz
CHANNEL:	58
REFERENCE VOLTAGE:	3.85 VDC

Voltage (%)	Power (VDC)	Temp. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290030.81	30.81
100%		-30	5290055.56	55.56
100%		-20	5290049.40	49.4
100%		-10	5290043.19	43.19
100%		0	5290038.98	38.98
100%		+10	5290035.76	35.76
100%		+30	5290034.25	34.25
100%		+40	5290044.51	44.51
100%		+50	5290049.00	49.00
Low	3.65	+20	5290049.32	49.32
High	4.40	+20	5290046.14	46.14

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530029.89	29.89
100%		-30	5530052.91	52.91
100%		-20	5530046.35	46.35
100%		-10	5530040.16	40.16
100%		0	5530036.21	36.21
100%		+10	5530032.65	32.65
100%		+30	5530033.34	33.34
100%		+40	5530042.48	42.48
100%		+50	5530046.17	46.17
Low	3.65	+20	5530049.20	49.20
High	4.40	+20	5530043.33	43.33

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775033.32	33.32
100%		-30	5775057.17	57.17
100%		-20	5775050.49	50.49
100%		-10	5775043.49	43.49
100%		0	5775039.56	39.56
100%		+10	5775036.67	36.67
100%		+30	5775036.93	36.93
100%		+40	5775045.31	45.31
100%		+50	5775049.26	49.26
Low	3.65	+20	5775052.37	52.37
High	4.40	+20	5775048.01	48.01

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5210030.27	30.27
100%		-30	5210054.52	54.52
100%		-20	5210046.82	46.82
100%		-10	5210039.77	39.77
100%		0	5210035.88	35.88
100%		+10	5210032.93	32.93
100%		+30	5210034.03	34.03
100%		+40	5210043.20	43.20
100%		+50	5210046.80	46.80
Low	3.65	+20	5210049.67	49.67
High	4.40	+20	5210045.09	45.09

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5290032.24	32.24
100%		-30	5290056.34	56.34
100%		-20	5290049.39	49.39
100%		-10	5290043.57	43.57
100%		0	5290039.52	39.52
100%		+10	5290036.08	36.08
100%		+30	5290036.04	36.04
100%		+40	5290045.01	45.01
100%		+50	5290048.55	48.55
Low	3.65	+20	5290051.70	51.70
High	4.40	+20	5290046.30	46.30

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530030.91	30.91
100%		-30	5530054.94	54.94
100%		-20	5530047.88	47.88
100%		-10	5530042.15	42.15
100%		0	5530037.77	37.77
100%		+10	5530034.95	34.95
100%		+30	5530034.26	34.26
100%		+40	5530044.30	44.3
100%		+50	5530048.75	48.75
Low	3.65	+20	5530049.46	49.46
High	4.40	+20	5530046.54	46.54

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5775032.77	32.77
100%		-30	5775056.33	56.33
100%		-20	5775048.43	48.43
100%		-10	5775042.81	42.81
100%		0	5775039.37	39.37
100%		+10	5775037.23	37.23
100%		+30	5775035.10	35.10
100%		+40	5775043.43	43.43
100%		+50	5775049.34	49.34
Low	3.65	+20	5775049.86	49.86
High	4.40	+20	5775048.38	48.38

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

[ANT1]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11a	UNII 2C	5720	144	5710.20	14.80
802.11n(HT20)				5709.80	15.20
802.11ac(VHT20)				5709.96	15.04
802.11a	UNII 3	5720	144	5729.32	4.32
802.11n(HT20)				5729.88	4.88
802.11ac(VHT20)				5729.96	4.96

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11n(HT40)	UNII 2C	5710	142	5690.32	34.68
802.11ac(VHT40)				5690.24	34.76
802.11n(HT40)	UNII 3	5710	142	5729.84	4.84
802.11ac(VHT40)				5729.84	4.84

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11ac(VHT80)	UNII 2C	5690	138	5649.68	75.32
	UNII 3	5690	138	5730.08	5.08

Note:

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

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

[ANT2]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11a	UNII 2C	5720	144	5709.88	15.12
802.11n(HT20)				5710.04	14.96
802.11ac(VHT20)				5709.76	15.24
802.11a	UNII 3	5720	144	5730.12	5.12
802.11n(HT20)				5729.92	4.92
802.11ac(VHT20)				5729.88	4.88

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11n(HT40)	UNII 2C	5710	142	5690.08	34.92
802.11ac(VHT40)				5690.08	34.92
802.11n(HT40)	UNII 3	5710	142	5730.00	5.00
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	5730.44	5.44

Note:

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

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

[ANT1]

▣ Test Plots (26dB Bandwidth)

802.11a UNII Band

802.11n(HT20) UNII Band

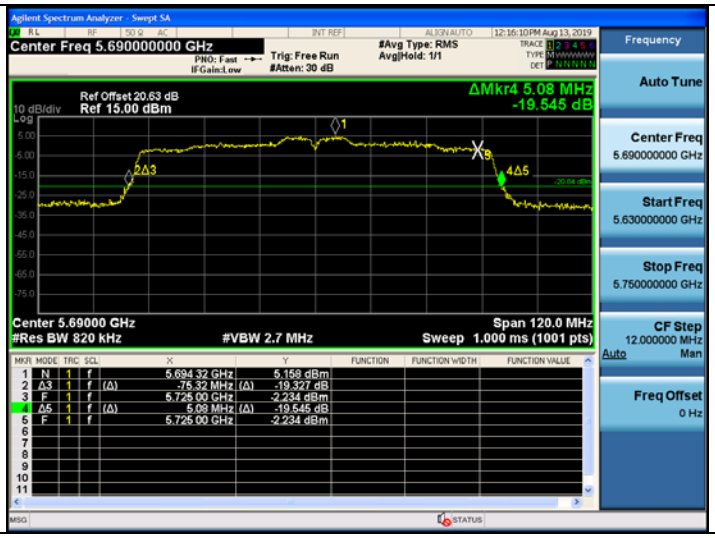
802.11ac(VHT20) UNII Band

▣ Test Plots (26dB Bandwidth)

802.11n(HT40) UNII Band

802.11ac(VHT40) UNII Band

802.11ac(VHT80) UNII Band



[ANT2]

▣ 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

[ANT1]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.50	2.50	> 0.5
802.11n(HT20)				5727.51	2.51	> 0.5
802.11ac(VHT20)				5727.53	2.53	> 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	5727.63	2.63	> 0.5

Note:

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

[ANT2]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.52	2.52	> 0.5
802.11n(HT20)				5727.53	2.53	> 0.5
802.11ac(VHT20)				5727.53	2.53	> 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)				5727.56	2.56	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.61	2.61	> 0.5

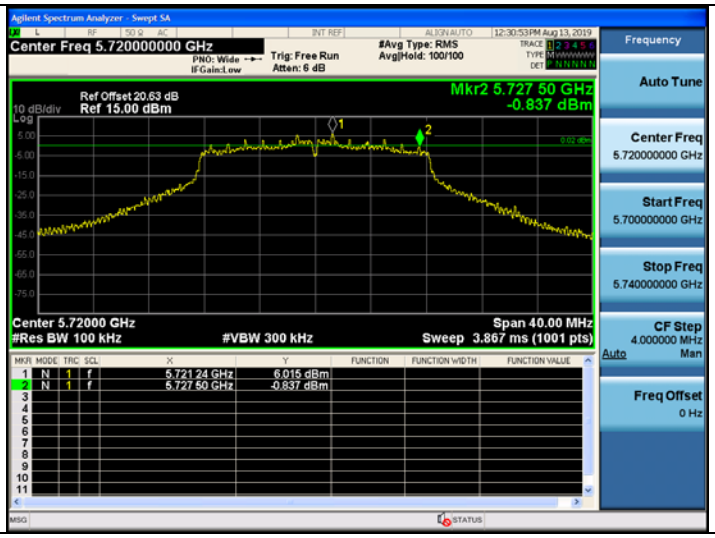
Note:

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

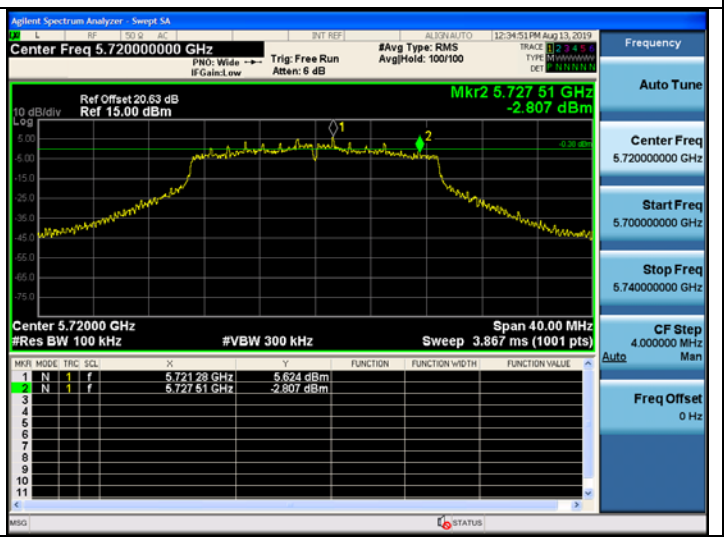
[ANT1]

▣ Test Plots(UNII 3 Band 6dB Bandwidth)

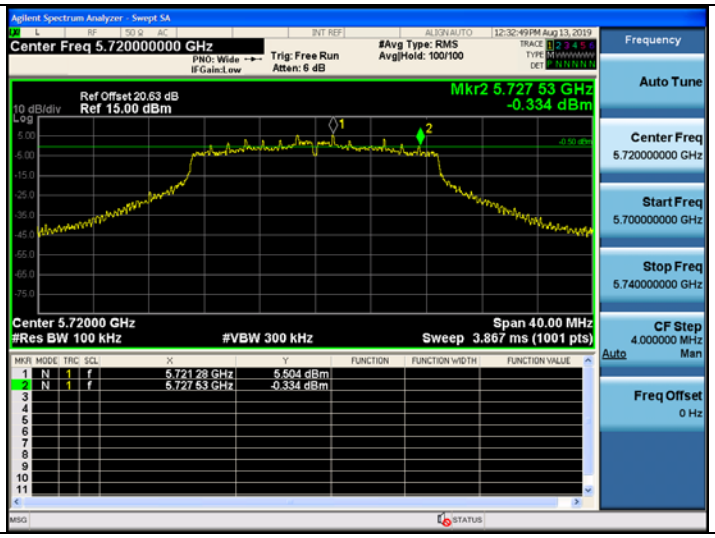
802.11a CH.144



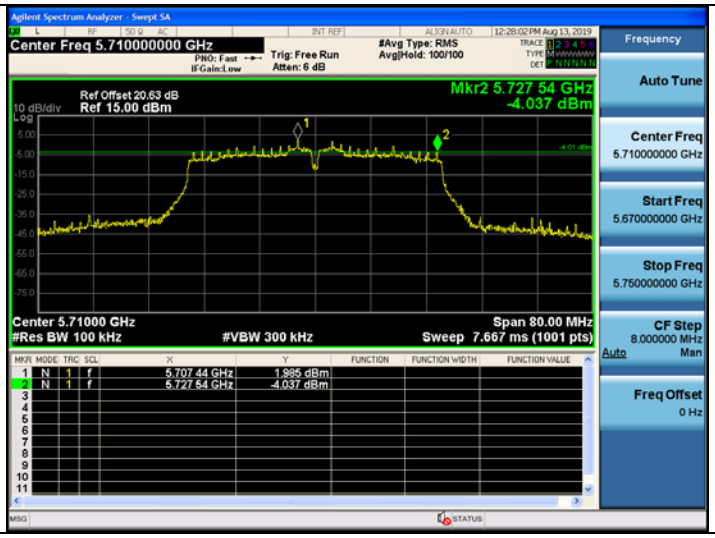
802.11n_HT20 CH.144



802.11ac_VHT20 CH.144

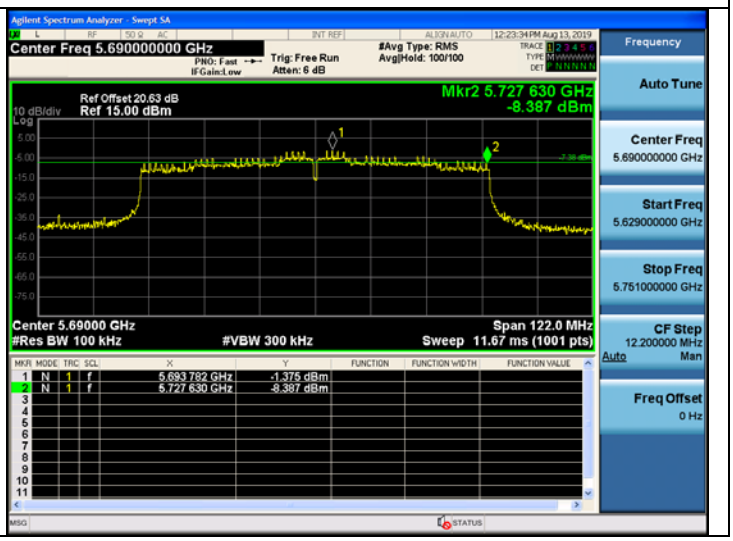


802.11n_HT40 CH.142



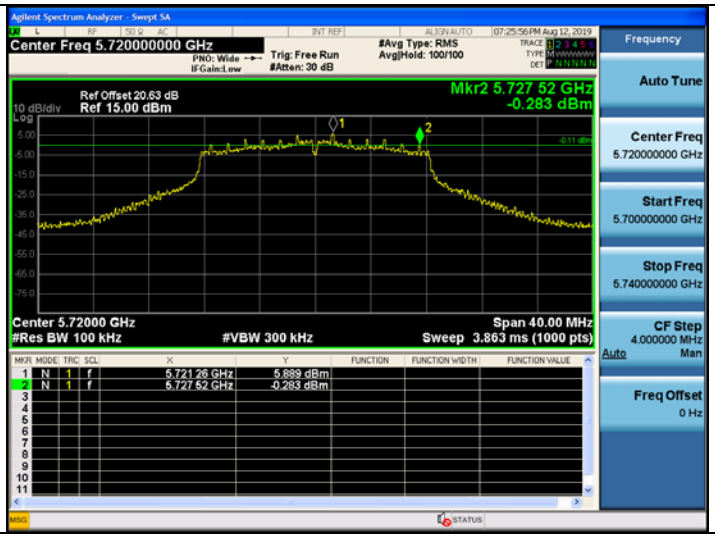
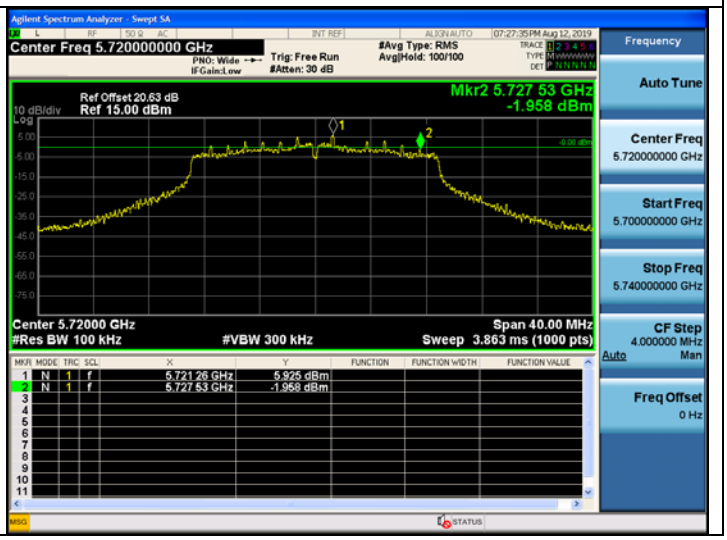
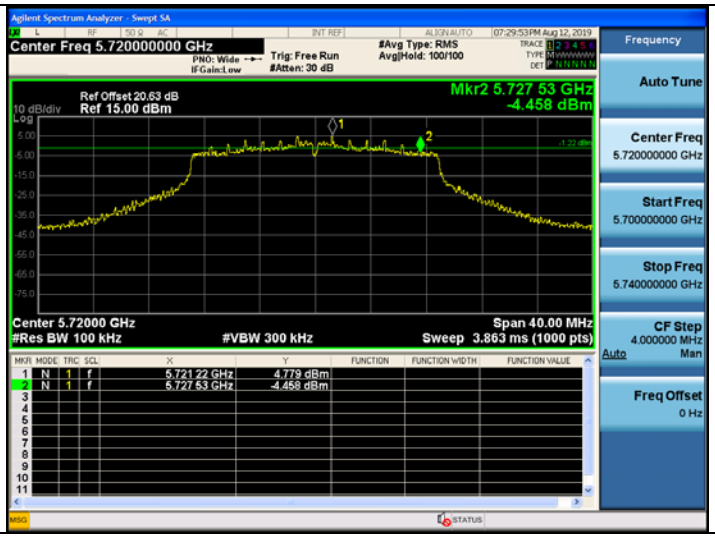
802.11ac_VHT40 CH.142

802.11ac_VHT80 CH.138

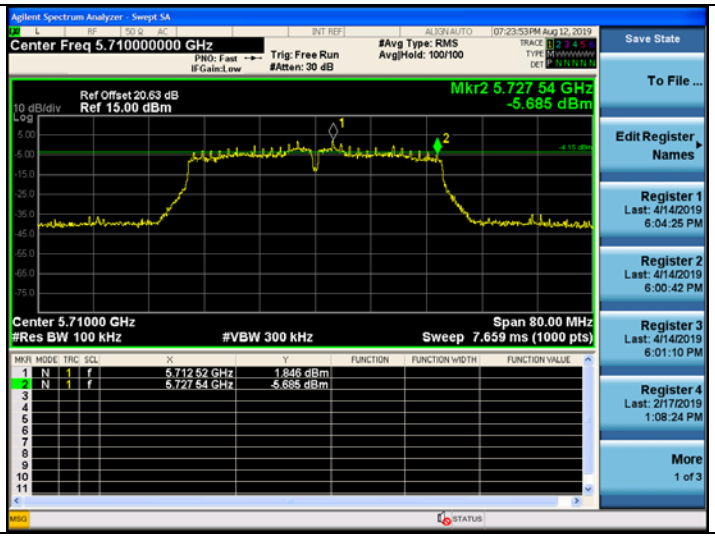


[ANT2]

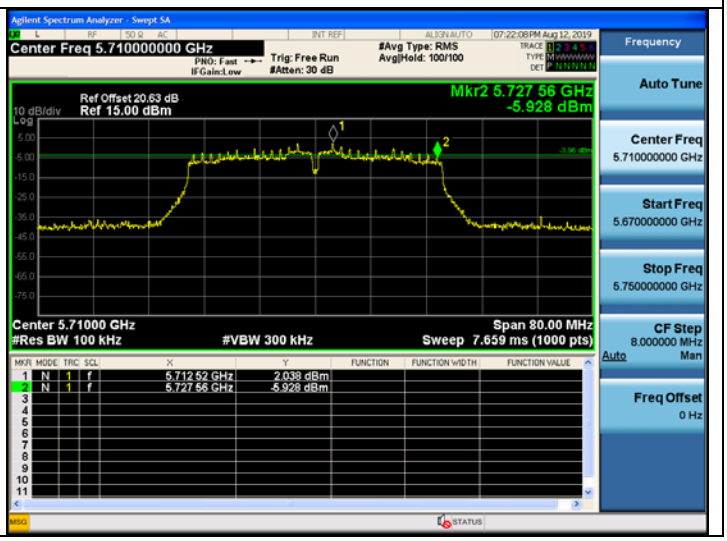
▣ Test Plots(UNII 3 Band 6dB Bandwidth)

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