

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)	5290040.77	40.77
100%		-30	5290052.25	52.25
100%		-20	5290045.09	45.09
100%		-10	5290038.68	38.68
100%		0	5290033.61	33.61
100%		+10	5290030.65	30.65
100%		+30	5290031.76	31.76
100%		+40	5290040.72	40.72
100%		+50	5290044.70	44.70
HIGH	4.40	+20	5290044.15	44.15
LOW	3.65	+20	5290047.39	47.39

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)	5530039.90	39.90
100%		-30	5530051.93	51.93
100%		-20	5530044.34	44.34
100%		-10	5530037.52	37.52
100%		0	5530032.93	32.93
100%		+10	5530029.43	29.43
100%		+30	5530031.65	31.65
100%		+40	5530041.96	41.96
100%		+50	5530045.52	45.52
HIGH	4.40	+20	5530043.73	43.73
LOW	3.65	+20	5530047.12	47.12

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 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)	5775044.23	44.23
100%		-30	5775052.38	52.38
100%		-20	5775046.04	46.04
100%		-10	5775039.02	39.02
100%		0	5775035.83	35.83
100%		+10	5775033.01	33.01
100%		+30	5775031.16	31.16
100%		+40	5775039.83	39.83
100%		+50	5775043.91	43.91
HIGH	4.40	+20	5775044.25	44.25
LOW	3.65	+20	5775047.77	47.77

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.

[ANT.2]

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)	5210037.28	37.28
100%		-30	5210052.58	52.58
100%		-20	5210045.67	45.67
100%		-10	5210040.21	40.21
100%		0	5210035.85	35.85
100%		+10	5210032.24	32.24
100%		+30	5210031.16	31.16
100%		+40	5210040.74	40.74
100%		+50	5210045.63	45.63
HIGH	4.40	+20	5210045.06	45.06
LOW	3.65	+20	5210048.16	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 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)	5290039.64	39.64
100%		-30	5290051.72	51.72
100%		-20	5290044.72	44.72
100%		-10	5290039.48	39.48
100%		0	5290035.88	35.88
100%		+10	5290032.66	32.66
100%		+30	5290030.99	30.99
100%		+40	5290038.54	38.54
100%		+50	5290044.61	44.61
HIGH	4.40	+20	5290046.24	46.24
LOW	3.65	+20	5290045.58	45.58

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)	5530040.19	40.19
100%		-30	5530052.02	52.02
100%		-20	5530044.34	44.34
100%		-10	5530037.34	37.34
100%		0	5530033.62	33.62
100%		+10	5530031.47	31.47
100%		+30	5530030.99	30.99
100%		+40	5530040.56	40.56
100%		+50	5530045.71	45.71
HIGH	4.40	+20	5530045.32	45.32
LOW	3.65	+20	5530047.75	47.75

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 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)	5775039.44	39.44
100%		-30	5775051.86	51.86
100%		-20	5775044.03	44.03
100%		-10	5775037.02	37.02
100%		0	5775032.65	32.65
100%		+10	5775029.31	29.31
100%		+30	5775032.70	32.70
100%		+40	5775042.09	42.09
100%		+50	5775046.69	46.69
HIGH	4.40	+20	5775044.77	44.77
LOW	3.65	+20	5775046.13	46.13

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)	5210040.13	40.13
100%		-30	5210052.34	52.34
100%		-20	5210044.62	44.62
100%		-10	5210037.61	37.61
100%		0	5210033.77	33.77
100%		+10	5210030.67	30.67
100%		+30	5210031.94	31.94
100%		+40	5210041.19	41.19
100%		+50	5210045.25	45.25
HIGH	4.40	+20	5210044.23	44.23
LOW	3.65	+20	5210045.84	45.84

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)	5290040.58	40.58
100%		-30	5290052.14	52.14
100%		-20	5290044.06	44.06
100%		-10	5290038.09	38.09
100%		0	5290034.77	34.77
100%		+10	5290031.58	31.58
100%		+30	5290032.65	32.65
100%		+40	5290040.34	40.34
100%		+50	5290045.07	45.07
HIGH	4.40	+20	5290044.90	44.90
LOW	3.65	+20	5290048.43	48.43

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. (°C)	Frequency (kHz)	Frequency Error (kHz)
100%	3.85	+20(Ref)	5530039.94	39.94
100%		-30	5530052.42	52.42
100%		-20	5530046.12	46.12
100%		-10	5530040.99	40.99
100%		0	5530037.45	37.45
100%		+10	5530034.93	34.93
100%		+30	5530031.77	31.77
100%		+40	5530039.82	39.82
100%		+50	5530044.77	44.77
HIGH	4.40	+20	5530045.12	45.12
LOW	3.65	+20	5530047.73	47.73

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 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)	5775041.50	41.50
100%		-30	5775052.96	52.96
100%		-20	5775046.28	46.28
100%		-10	5775039.75	39.75
100%		0	5775034.90	34.90
100%		+10	5775032.33	32.33
100%		+30	5775032.05	32.05
100%		+40	5775040.84	40.84
100%		+50	5775046.57	46.57
HIGH	4.40	+20	5775045.90	45.90
LOW	3.65	+20	5775045.85	45.85

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)	5210040.67	40.67
100%		-30	5210053.31	53.31
100%		-20	5210047.10	47.10
100%		-10	5210040.60	40.60
100%		0	5210036.16	36.16
100%		+10	5210033.10	33.10
100%		+30	5210030.95	30.95
100%		+40	5210039.80	39.80
100%		+50	5210045.04	45.04
HIGH	4.40	+20	5210045.41	45.41
LOW	3.65	+20	5210047.19	47.19

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)	5290041.26	41.26
100%		-30	5290052.61	52.61
100%		-20	5290046.09	46.09
100%		-10	5290040.39	40.39
100%		0	5290035.58	35.58
100%		+10	5290032.27	32.27
100%		+30	5290032.76	32.76
100%		+40	5290042.24	42.24
100%		+50	5290047.01	47.01
HIGH	4.40	+20	5290044.94	44.94
LOW	3.65	+20	5290047.33	47.33

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 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)	5530040.72	40.72
100%		-30	5530052.57	52.57
100%		-20	5530045.00	45.00
100%		-10	5530038.97	38.97
100%		0	5530035.55	35.55
100%		+10	5530033.06	33.06
100%		+30	5530031.67	31.67
100%		+40	5530040.66	40.66
100%		+50	5530046.57	46.57
HIGH	4.40	+20	5530046.08	46.08
LOW	3.65	+20	5530046.70	46.70

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)	5775038.12	38.12
100%		-30	5775052.38	52.38
100%		-20	5775044.69	44.69
100%		-10	5775039.37	39.37
100%		0	5775036.18	36.18
100%		+10	5775033.17	33.17
100%		+30	5775031.84	31.84
100%		+40	5775040.51	40.51
100%		+50	5775044.31	44.31
HIGH	4.40	+20	5775043.97	43.97
LOW	3.65	+20	5775047.66	47.66

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)	5210040.39	40.39
100%		-30	5210053.37	53.37
100%		-20	5210046.70	46.70
100%		-10	5210039.64	39.64
100%		0	5210034.70	34.70
100%		+10	5210031.73	31.73
100%		+30	5210031.68	31.68
100%		+40	5210039.57	39.57
100%		+50	5210042.78	42.78
HIGH	4.40	+20	5210043.38	43.38
LOW	3.65	+20	5210047.50	47.50

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)	5290039.81	39.81
100%		-30	5290053.18	53.18
100%		-20	5290045.74	45.74
100%		-10	5290039.59	39.59
100%		0	5290036.10	36.10
100%		+10	5290033.88	33.88
100%		+30	5290032.07	32.07
100%		+40	5290041.38	41.38
100%		+50	5290045.75	45.75
HIGH	4.40	+20	5290044.54	44.54
LOW	3.65	+20	5290046.11	46.11

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)	5530041.57	41.57
100%		-30	5530053.37	53.37
100%		-20	5530045.27	45.27
100%		-10	5530038.67	38.67
100%		0	5530034.46	34.46
100%		+10	5530031.11	31.11
100%		+30	5530032.25	32.25
100%		+40	5530041.61	41.61
100%		+50	5530047.34	47.34
HIGH	4.40	+20	5530045.90	45.90
LOW	3.65	+20	5530045.84	45.84

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)	5775040.46	40.46
100%		-30	5775053.25	53.25
100%		-20	5775045.46	45.46
100%		-10	5775039.82	39.82
100%		0	5775035.98	35.98
100%		+10	5775032.15	32.15
100%		+30	5775031.77	31.77
100%		+40	5775041.52	41.52
100%		+50	5775045.74	45.74
HIGH	4.40	+20	5775044.39	44.39
LOW	3.65	+20	5775048.55	48.55

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

[ANT.1]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11a	UNII 2C	5720	144	5710.56	14.44
802.11n(HT20)				5709.88	15.12
802.11ac(VHT20)				5710.16	14.84
802.11a	UNII 3	5720	144	5729.52	4.52
802.11n(HT20)				5730.16	5.16
802.11ac(VHT20)				5730.16	5.16

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11n(HT40)	UNII 2C	5710	142	5690.56	34.44
802.11ac(VHT40)				5690.16	34.84
802.11n(HT40)	UNII 3	5710	142	5729.92	4.92
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	5649.68	75.32
	UNII 3	5690	138	5730.68	5.68

Note:

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

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

[ANT.2]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	26dB Bandwidth [MHz]
802.11a	UNII 2C	5720	144	5710.48	14.52
802.11n(HT20)				5710.16	14.84
802.11ac(VHT20)				5709.96	15.04
802.11a	UNII 3	5720	144	5729.52	4.52
802.11n(HT20)				5729.96	4.96
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	5690.24	34.76
802.11ac(VHT40)				5690.24	34.76
802.11n(HT40)	UNII 3	5710	142	5729.76	4.76
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	5649.20	75.80
	UNII 3	5690	138	5730.56	5.56

Note:

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

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

[ANT.1]

☐ 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



[ANT.2]

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

[ANT.1]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.92	2.92	> 0.5
802.11n(HT20)				5728.44	3.44	> 0.5
802.11ac(VHT20)				5728.16	3.16	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.84	2.84	> 0.5
802.11ac(VHT40)				5727.84	2.84	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.56	2.56	> 0.5

Note:

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

[ANT.2]

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11a	UNII 3	5720	144	5727.92	2.92	> 0.5
802.11n(HT20)				5727.60	2.60	> 0.5
802.11ac(VHT20)				5727.96	2.96	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11n(HT40)	UNII 3	5710	142	5727.60	2.60	> 0.5
802.11ac(VHT40)				5727.60	2.60	> 0.5

Mode	Band	Frequency [MHz]	Channel	Measured Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
802.11ac(VHT80)	UNII 3	5690	138	5727.68	2.68	> 0.5

Note:

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

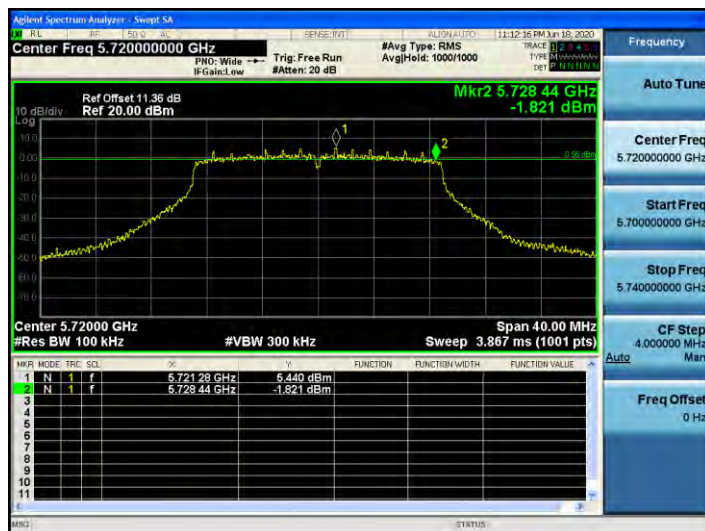
[ANT.1]

□ Test Plots(UNII 3 Band 6dB Bandwidth)

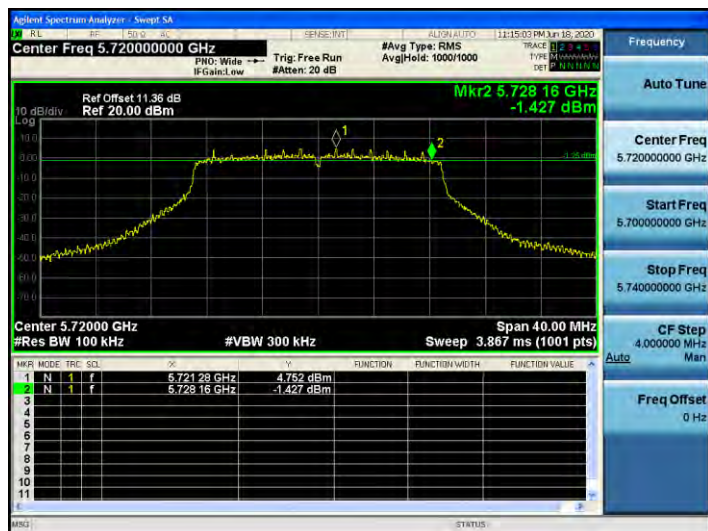
802.11a CH.144



802.11n_HT20 CH.144



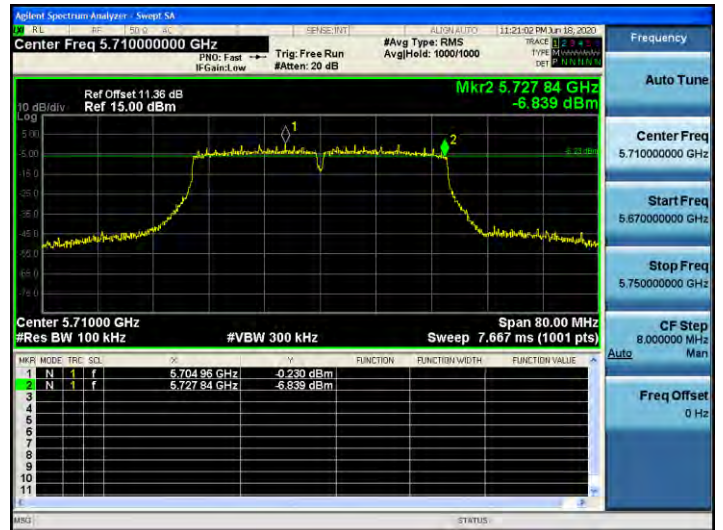
802.11ac_VHT20 CH.144



802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



[ANT.2]

Test Plots(UNII 3 Band 6dB Bandwidth)

802.11a CH.144



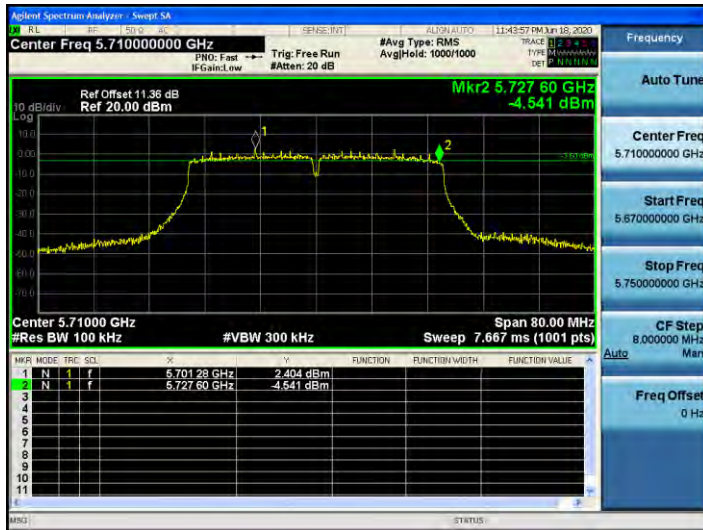
802.11n_HT20 CH.144



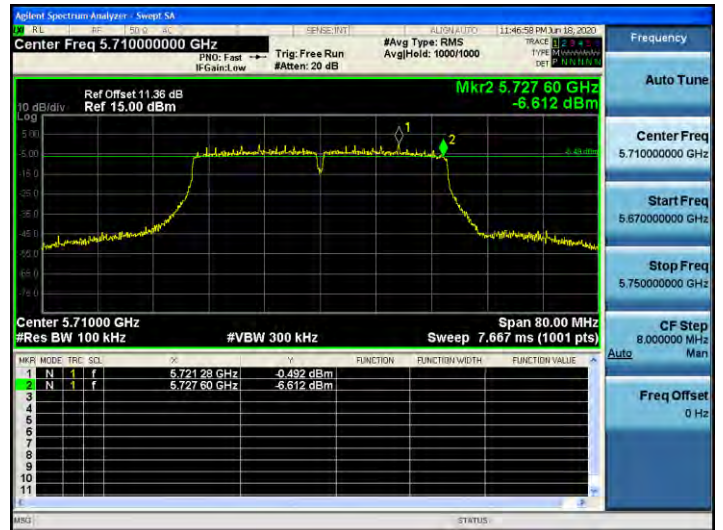
802.11ac_VHT20 CH.144



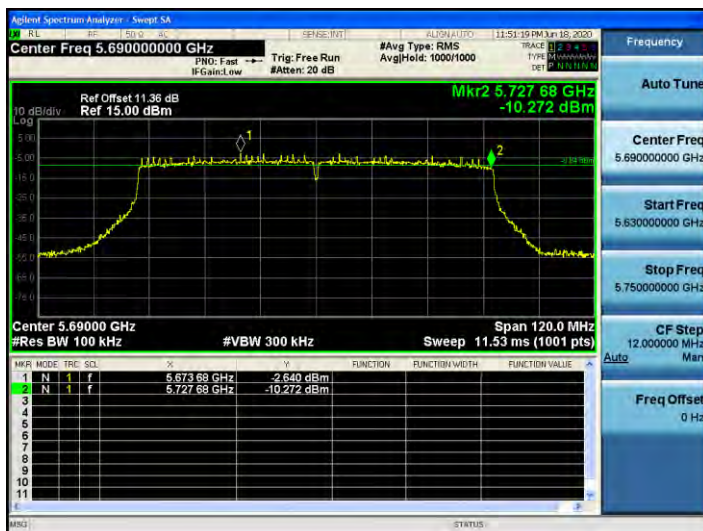
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

[ANT.1]

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	15.92	0.104	16.02	22.60
802.11n(HT20)			14.77	0.015	14.79	22.80
802.11ac(VHT20)			14.74	0.015	14.76	22.71
802.11a	5720 (UNII 3 Band)	144	9.37	0.104	9.47	30.00
802.11n(HT20)			9.29	0.015	9.30	30.00
802.11ac(VHT20)			9.25	0.015	9.27	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	15.54	0.014	15.56	23.98
802.11ac(VHT40)			13.08	0.012	13.09	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	4.38	0.014	4.39	30.00
802.11ac(VHT40)			1.92	0.012	1.93	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	12.14	0.012	12.15	23.98
	5690 (UNII 3 Band)	138	-2.32	0.012	-2.31	30.00

[ANT.2]

Mode	Frequency [MHz]	Channel	Measured Power (dBm)	Duty Cycle Factor (dB)	Total Power (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	15.96	0.104	16.07	22.62
802.11n(HT20)			14.86	0.015	14.87	22.71
802.11ac(VHT20)			14.81	0.015	14.83	22.77
802.11a	5720 (UNII 3 Band)	144	9.35	0.104	9.45	30.00
802.11n(HT20)			9.31	0.015	9.33	30.00
802.11ac(VHT20)			9.27	0.015	9.28	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	15.45	0.014	15.46	23.98
802.11ac(VHT40)			12.82	0.012	12.83	23.98
802.11n(HT40)	5710 (UNII 3 Band)	142	4.23	0.014	4.25	30.00
802.11ac(VHT40)			1.62	0.012	1.63	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	12.77	0.012	12.79	23.98
	5690 (UNII 3 Band)	138	-1.93	0.012	-1.92	30.00

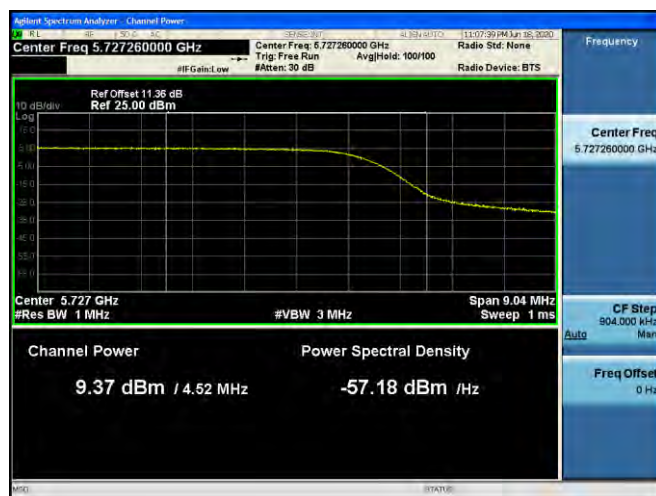
[ANT.1]

Test Plots

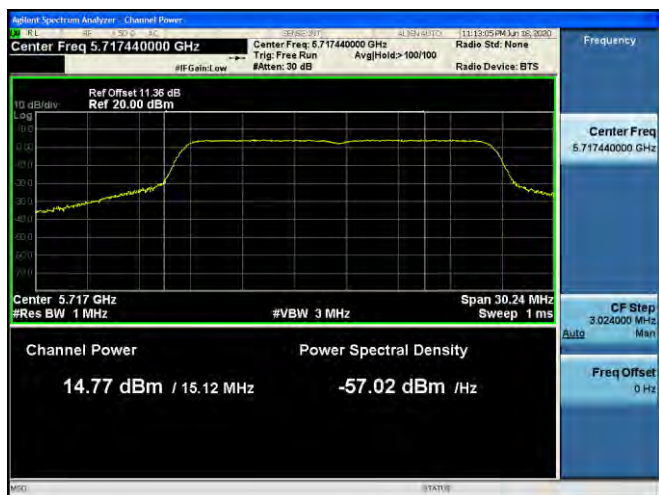
802.11a UNII 2C Band



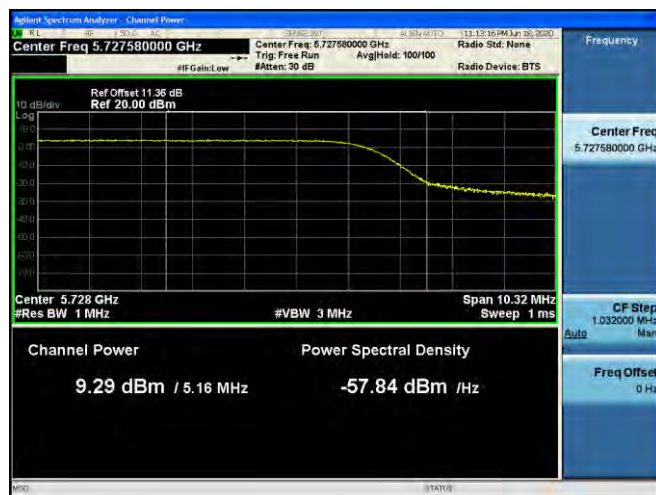
802.11a UNII 3 Band



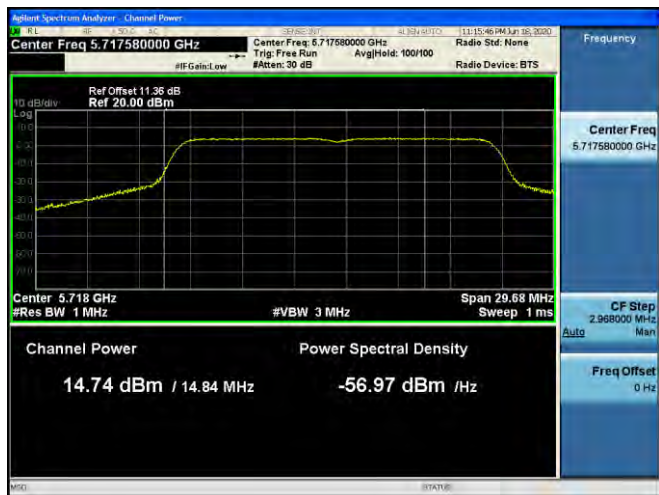
802.11n(HT20) UNII 2C Band



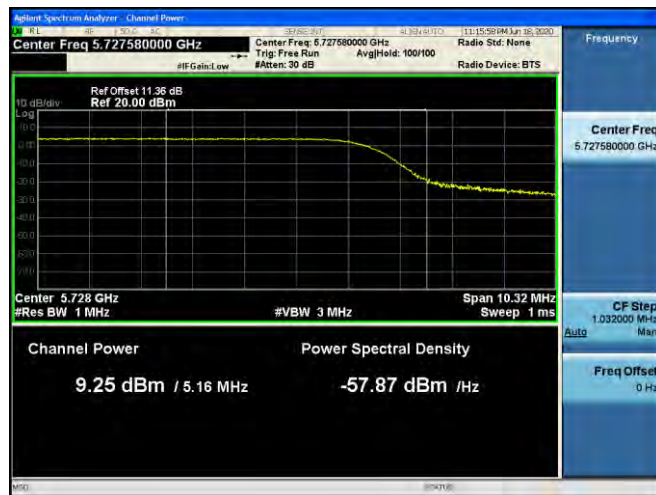
802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



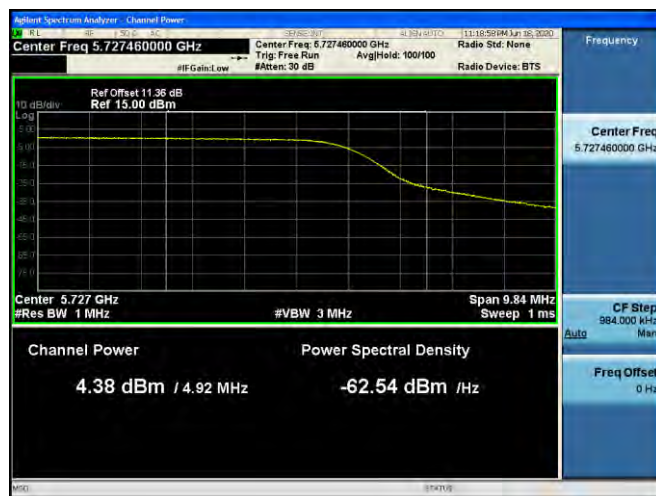
802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



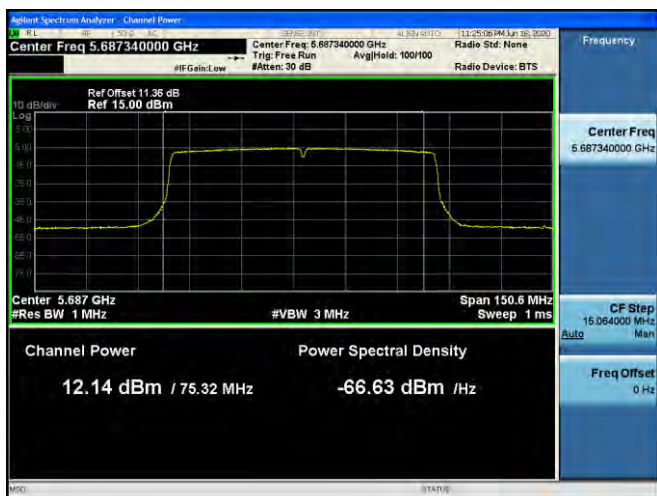
802.11ac(VHT40) UNII 2C Band



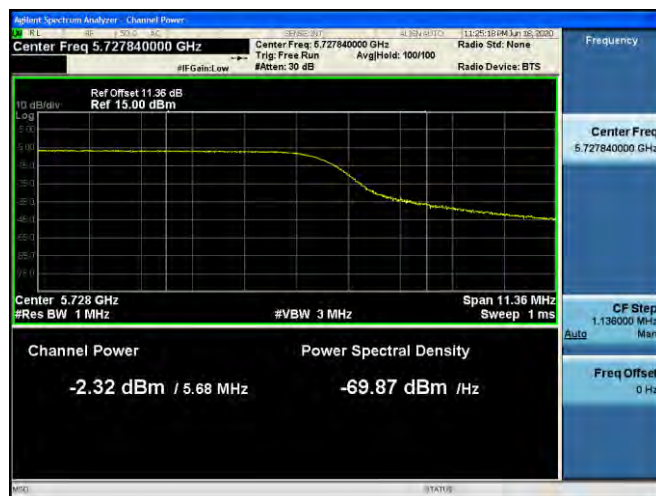
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



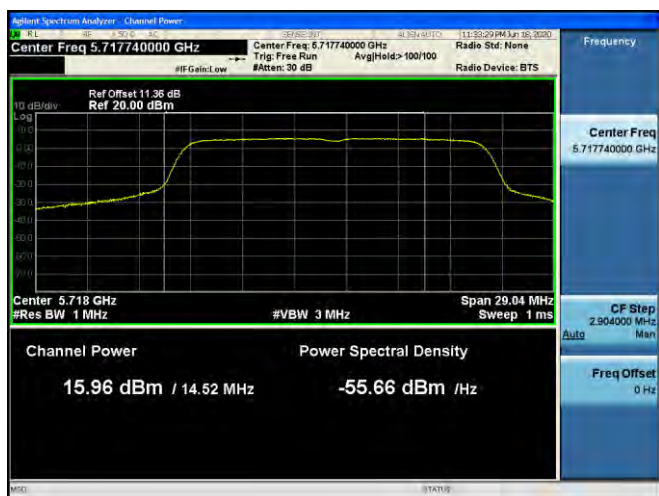
802.11ac(VHT80) UNII 3 Band



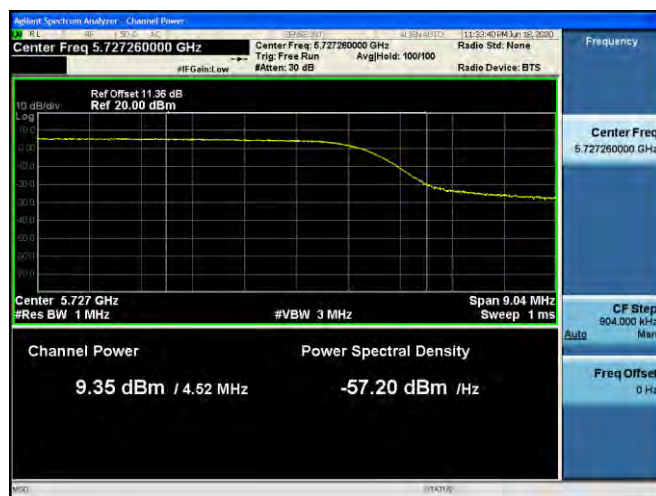
[ANT.2]

Test Plots

802.11a UNII 2C Band



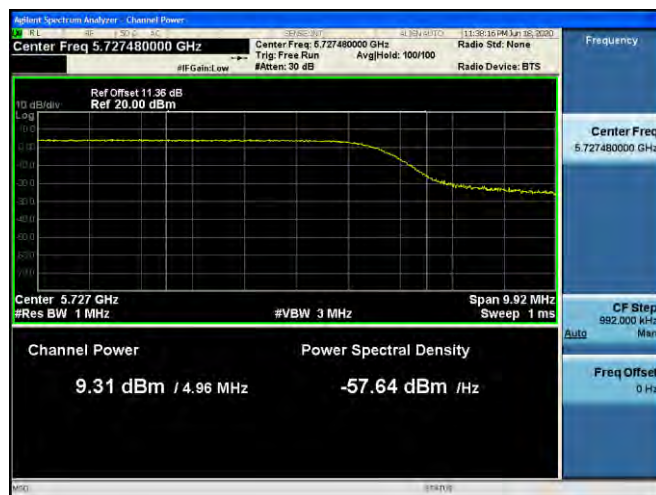
802.11a UNII 3 Band



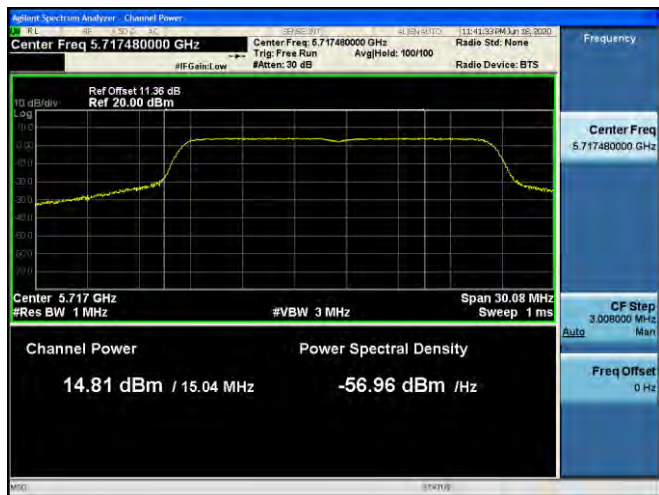
802.11n(HT20) UNII 2C Band



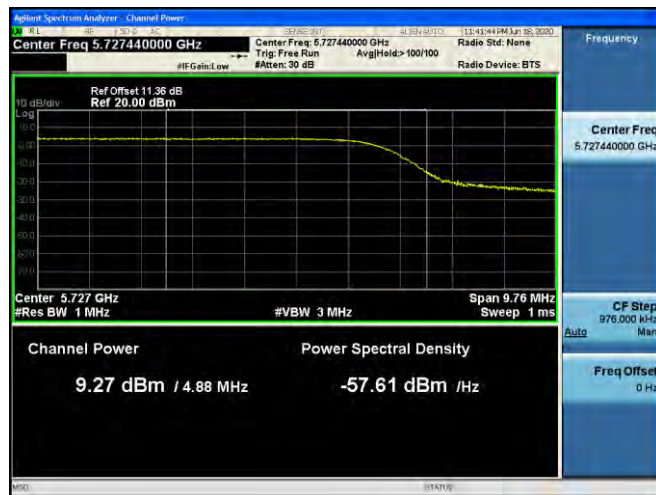
802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



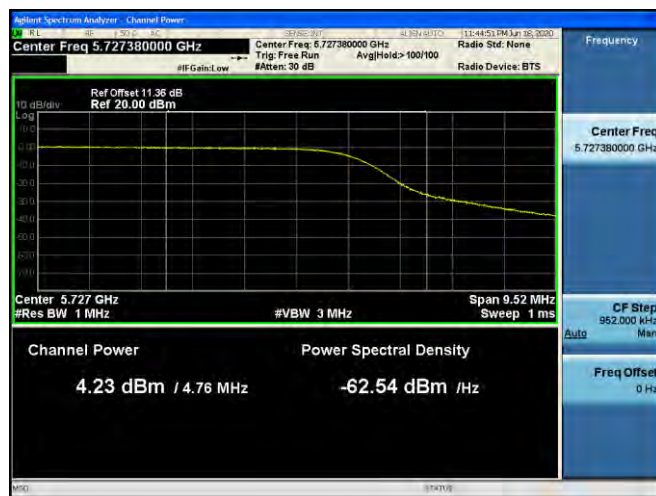
802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



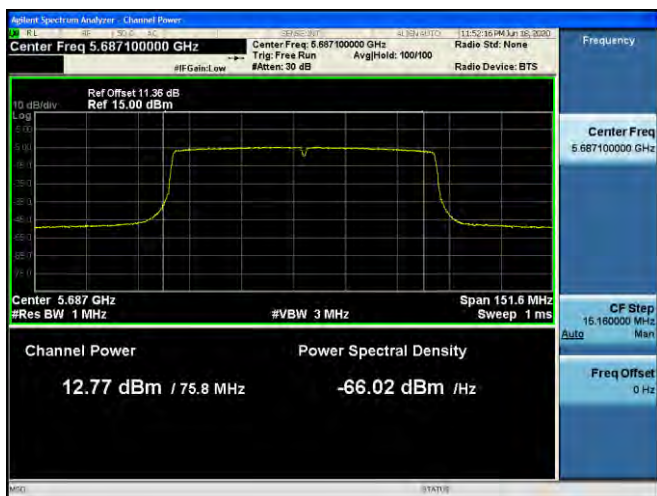
802.11ac(VHT40) UNII 2C Band



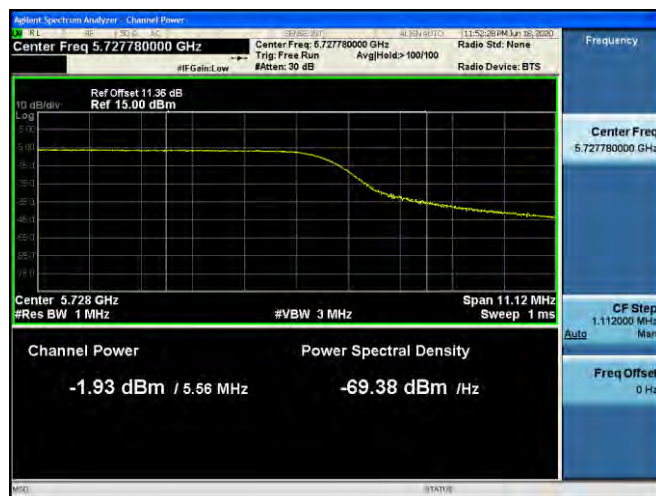
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

[ANT.1]

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	5.811	0.104	5.915	11dBm/ MHz
802.11n(HT20)			4.339	0.015	4.354	
802.11ac(VHT20)			4.436	0.015	4.451	
802.11a	5720 (UNII 3 Band)	144	2.425	0.104	2.529	30 dBm/ 500kHz
802.11n(HT20)			1.361	0.015	1.376	
802.11ac(VHT20)			1.221	0.015	1.236	

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	1.644	0.014	1.658	11dBm/ MHz
802.11ac(VHT40)			-0.831	0.012	-0.819	
802.11n(HT40)	5710 (UNII 3 Band)	142	-2.677	0.014	-2.663	30 dBm/ 500kHz
802.11ac(VHT40)			-5.008	0.012	-4.996	

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-5.002	0.012	-4.990	11dBm/ MHz
	5690 (UNII 3 Band)	138	-10.012	0.012	-10.000	30 dBm/ 500kHz

[ANT.2]

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11a	5720 (UNII 2C Band)	144	6.026	0.104	6.130	11dBm/ MHz
802.11n(HT20)			4.391	0.015	4.406	
802.11ac(VHT20)			4.461	0.015	4.476	
802.11a	5720 (UNII 3 Band)	144	2.448	0.104	2.552	30 dBm/ 500kHz
802.11n(HT20)			1.443	0.015	1.458	
802.11ac(VHT20)			1.263	0.015	1.278	

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11n(HT40)	5710 (UNII 2C Band)	142	1.498	0.014	1.512	11dBm/ MHz
802.11ac(VHT40)			-0.819	0.012	-0.807	
802.11n(HT40)	5710 (UNII 3 Band)	142	-2.801	0.014	-2.787	30 dBm/ 500kHz
802.11ac(VHT40)			-5.624	0.012	-5.612	

Mode	Frequency [MHz]	Channel	Measured Density (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)	Limit (dBm)
802.11ac(VHT80)	5690 (UNII 2C Band)	138	-4.310	0.012	-4.298	11dBm/ MHz
	5690 (UNII 3 Band)	138	-9.730	0.012	-9.718	30 dBm/ 500kHz

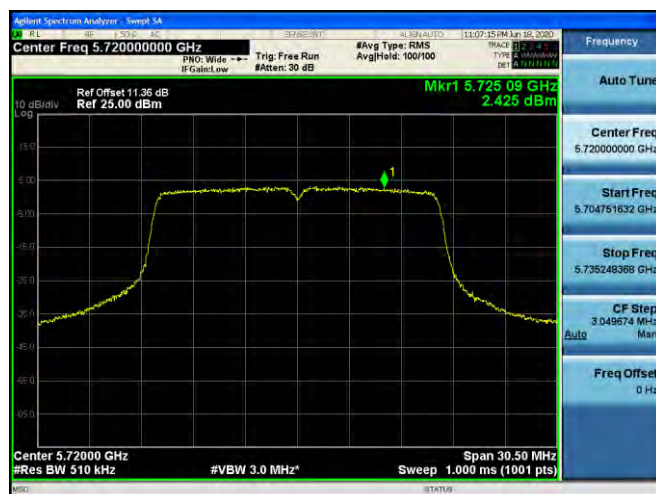
[ANT.1]

Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



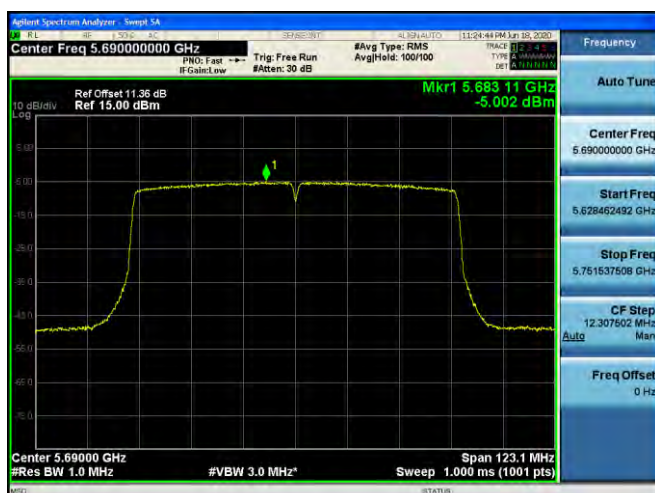
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



[ANT.2]

Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



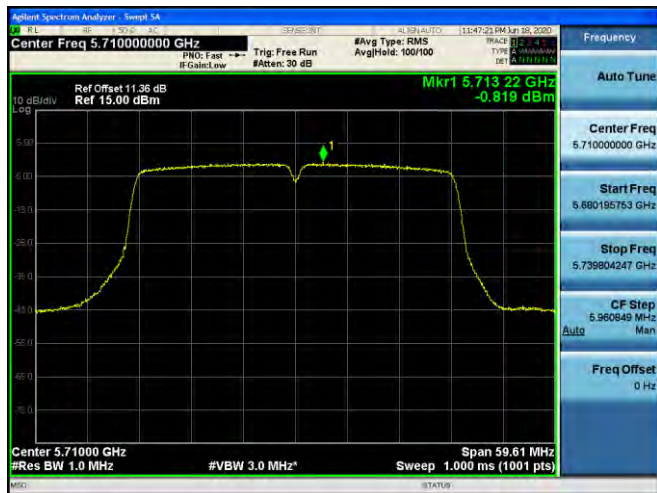
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.8 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

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

Note:

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40\log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor

Frequency Range : Below 1 GHz

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

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

[Ant.1&Ant.2_MIMO(CDD)]
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	43.15	9.17	V	52.32	68.20	15.88	PK
15540	39.94	13.42	V	53.36	73.98	20.62	PK
15540	26.52	13.42	V	39.94	53.98	14.04	AV
10360	44.57	9.17	H	53.74	68.20	14.46	PK
15540	40.87	13.42	H	54.29	73.98	19.69	PK
15540	26.56	13.42	H	39.98	53.98	14.00	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	42.35	9.57	V	51.92	68.20	16.28	PK
15600	39.18	13.16	V	52.34	73.98	21.64	PK
15600	26.22	13.16	V	39.38	53.98	14.60	AV
10400	43.76	9.57	H	53.33	68.20	14.87	PK
15600	39.95	13.16	H	53.11	73.98	20.87	PK
15600	26.27	13.16	H	39.43	53.98	14.55	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	42.63	9.94	V	52.57	68.20	15.63	PK
15720	38.03	13.28	V	51.31	73.98	22.67	PK
15720	26.03	13.28	V	39.31	53.98	14.67	AV
10480	43.13	9.94	H	53.07	68.20	15.13	PK
15720	39.04	13.28	H	52.32	73.98	21.66	PK
15720	26.08	13.28	H	39.36	53.98	14.62	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	41.05	9.96	V	51.01	68.20	17.19	PK
15780	39.78	13.29	V	53.07	73.98	20.91	PK
15780	26.04	13.29	V	39.33	53.98	14.65	AV
10520	42.65	9.96	H	52.61	68.20	15.59	PK
15780	40.20	13.29	H	53.49	73.98	20.49	PK
15780	26.81	13.29	H	40.10	53.98	13.88	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	41.49	10.34	V	51.83	73.98	22.15	PK
10600	28.94	10.34	V	39.28	53.98	14.70	AV
15900	39.92	13.19	V	53.11	73.98	20.87	PK
15900	27.16	13.19	V	40.35	53.98	13.63	AV
10600	42.38	10.34	H	52.72	73.98	21.26	PK
10600	29.24	10.34	H	39.58	53.98	14.40	AV
15900	40.42	13.19	H	53.61	73.98	20.37	PK
15900	27.30	13.19	H	40.49	53.98	13.49	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	41.57	10.30	V	51.87	73.98	22.11	PK
10640	28.85	10.30	V	39.15	53.98	14.83	AV
15960	40.56	12.29	V	52.85	73.98	21.13	PK
15960	27.25	12.29	V	39.54	53.98	14.44	AV
10640	43.33	10.30	H	53.63	73.98	20.35	PK
10640	29.04	10.30	H	39.34	53.98	14.64	AV
15960	41.02	12.29	H	53.31	73.98	20.67	PK
15960	27.32	12.29	H	39.61	53.98	14.37	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	41.83	11.12	V	52.95	73.98	21.03	PK
11000	28.66	11.12	V	39.78	53.98	14.20	AV
16500	41.32	12.50	V	53.82	68.20	14.38	PK
11000	41.43	11.12	H	52.55	73.98	21.43	PK
11000	28.56	11.12	H	39.68	53.98	14.30	AV
16500	40.43	12.50	H	52.93	68.20	15.27	PK

Band : UNII 2C
Operation Mode: 802.11 a
Transfer Rate: 6 Mbps
Operating Frequency 5600 MHz
Channel No. 120 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11200	41.05	11.12	V	52.17	73.98	21.81	PK
11200	28.24	11.12	V	39.36	53.98	14.62	AV
16800	40.07	13.64	V	53.71	68.20	14.49	PK
11200	41.86	11.12	H	52.98	73.98	21.00	PK
11200	28.45	11.12	H	39.57	53.98	14.41	AV
16800	41.25	13.64	H	54.89	68.20	13.31	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	40.84	11.26	V	52.10	73.98	21.88	PK
11440	27.89	11.26	V	39.15	53.98	14.83	AV
17160	40.15	14.70	V	54.85	68.20	13.35	PK
11440	41.99	11.26	H	53.25	73.98	20.73	PK
11440	27.94	11.26	H	39.20	53.98	14.78	AV
17160	40.40	14.70	H	55.10	68.20	13.10	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	40.80	11.54	V	52.34	73.98	21.64	PK
11490	27.78	11.54	V	39.32	53.98	14.66	AV
17235	39.70	15.28	V	54.98	68.20	13.22	PK
11490	41.07	11.54	H	52.61	73.98	21.37	PK
11490	28.05	11.54	H	39.59	53.98	14.39	AV
17235	40.26	15.28	H	55.54	68.20	12.66	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	40.94	10.94	V	51.88	73.98	22.10	PK
11570	28.07	10.94	V	39.01	53.98	14.97	AV
17355	39.95	15.94	V	55.89	68.20	12.31	PK
11570	41.88	10.94	H	52.82	73.98	21.16	PK
11570	28.28	10.94	H	39.22	53.98	14.76	AV
17355	40.42	15.94	H	56.36	68.20	11.84	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	41.39	10.39	V	51.78	73.98	22.20	PK
11650	28.25	10.39	V	38.64	53.98	15.34	AV
17475	39.56	17.24	V	56.80	68.20	11.40	PK
11650	42.22	10.39	H	52.61	73.98	21.37	PK
11650	28.48	10.39	H	38.87	53.98	15.11	AV
17475	40.36	17.24	H	57.60	68.20	10.60	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	40.44	11.54	V	51.98	73.98	22.00	PK
11490	28.40	11.54	V	39.94	53.98	14.04	AV
17235	39.95	15.28	V	55.23	68.20	12.97	PK
11490	41.36	11.54	H	52.90	73.98	21.08	PK
11490	28.44	11.54	H	39.98	53.98	14.00	AV
17235	40.39	15.28	H	55.67	68.20	12.53	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	40.80	10.94	V	51.74	73.98	22.24	PK
11570	28.20	10.94	V	39.14	53.98	14.84	AV
17355	40.24	15.94	V	56.18	68.20	12.02	PK
11570	41.70	10.94	H	52.64	73.98	21.34	PK
11570	28.38	10.94	H	39.32	53.98	14.66	AV
17355	40.31	15.94	H	56.25	68.20	11.95	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	40.28	10.39	V	50.67	73.98	23.31	PK
11650	28.10	10.39	V	38.49	53.98	15.49	AV
17475	39.34	17.24	V	56.58	68.20	11.62	PK
11650	41.46	10.39	H	51.85	73.98	22.13	PK
11650	28.24	10.39	H	38.63	53.98	15.35	AV
17475	39.69	17.24	H	56.93	68.20	11.27	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	40.35	11.54	V	51.89	73.98	22.09	PK
11490	28.10	11.54	V	39.64	53.98	14.34	AV
17235	40.17	15.28	V	55.45	68.20	12.75	PK
11490	41.87	11.54	H	53.41	73.98	20.57	PK
11490	28.29	11.54	H	39.83	53.98	14.15	AV
17235	41.70	15.28	H	56.98	68.20	11.22	PK

Band : UNII 3

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5785 MHz

Channel No. 157 Ch

Frequency [MHz]	Reading [dBuV]	A.F.+C.L. -A.G+D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
11570	40.78	10.94	V	51.72	73.98	22.26	PK
11570	28.21	10.94	V	39.15	53.98	14.83	AV
17355	39.75	15.94	V	55.69	68.20	12.51	PK
11570	41.30	10.94	H	52.24	73.98	21.74	PK
11570	28.23	10.94	H	39.17	53.98	14.81	AV
17355	39.78	15.94	H	55.72	68.20	12.48	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	40.80	10.39	V	51.19	73.98	22.79	PK
11650	28.35	10.39	V	38.74	53.98	15.24	AV
17475	39.33	17.24	V	56.57	68.20	11.63	PK
11650	41.32	10.39	H	51.71	73.98	22.27	PK
11650	28.44	10.39	H	38.83	53.98	15.15	AV
17475	40.01	17.24	H	57.25	68.20	10.95	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	40.86	11.45	V	52.31	73.98	21.67	PK
11510	27.59	11.45	V	39.04	53.98	14.94	AV
17265	39.16	15.19	V	54.35	68.20	13.85	PK
11510	41.98	11.45	H	53.43	73.98	20.55	PK
11510	28.71	11.45	H	40.16	53.98	13.82	AV
17265	40.87	15.19	H	56.06	68.20	12.14	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	41.09	10.48	V	51.57	73.98	22.41	PK
11590	27.64	10.48	V	38.12	53.98	15.86	AV
17385	39.21	16.15	V	55.36	68.20	12.84	PK
11590	41.86	10.48	H	52.34	73.98	21.64	PK
11590	28.62	10.48	H	39.10	53.98	14.88	AV
17385	39.74	16.15	H	55.89	68.20	12.31	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	40.56	11.45	V	52.01	73.98	21.97	PK
11510	28.67	11.45	V	40.12	53.98	13.86	AV
17265	40.06	15.19	V	55.25	68.20	12.95	PK
11510	41.65	11.45	H	53.10	73.98	20.88	PK
11510	28.78	11.45	H	40.23	53.98	13.75	AV
17265	40.64	15.19	H	55.83	68.20	12.37	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	40.64	10.48	V	51.12	73.98	22.86	PK
11590	28.49	10.48	V	38.97	53.98	15.01	AV
17385	39.51	16.15	V	55.66	68.20	12.54	PK
11590	42.80	10.48	H	53.28	73.98	20.70	PK
11590	28.58	10.48	H	39.06	53.98	14.92	AV
17385	40.31	16.15	H	56.46	68.20	11.74	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	40.94	11.00	V	51.94	73.98	22.04	PK
11550	28.22	11.00	V	39.22	53.98	14.76	AV
17325	39.53	15.71	V	55.24	68.20	12.96	PK
11550	41.49	11.00	H	52.49	73.98	21.49	PK
11550	28.57	11.00	H	39.57	53.98	14.41	AV
17325	40.56	15.71	H	56.27	68.20	11.93	PK

Note:

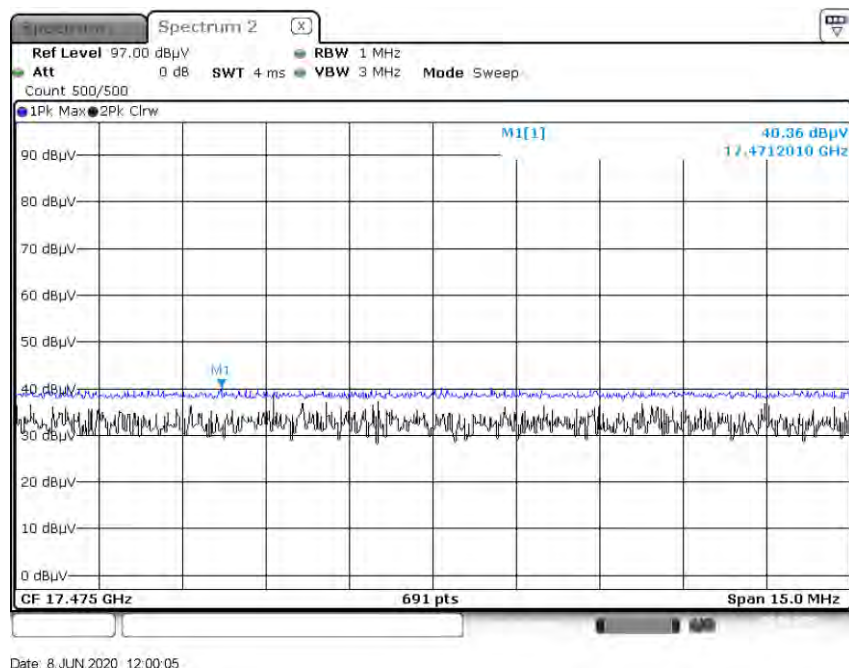
All Modes of operation were investigated and the worst case configuration results are reported.

In order to simplify the report, We only have attached RSE result of worst channel.

[Ant.1&Ant.2_MIMO(CDD)]

▣ Test Plots

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



Date: 8 JUN 2020 12:00:05

Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

[Ant.1&Ant.2_MIMO(CDD)]

Band :	UNII 1
Operation Mode:	802.11 a
Transfer Rate:	6 Mbps
Operating Frequency	5180 MHz
Channel No.	36 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5150	46.83	8.02	H	54.85	73.98	19.13	PK
5150	35.02	8.02	H	43.04	53.98	10.94	AV
5150	46.05	8.02	V	54.07	73.98	19.91	PK
5150	34.11	8.02	V	42.13	53.98	11.85	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	50.73	7.87	H	58.60	73.98	15.38	PK
5350	35.89	7.87	H	43.76	53.98	10.22	AV
5350	49.21	7.87	V	57.08	73.98	16.90	PK
5350	34.36	7.87	V	42.23	53.98	11.75	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	44.41	8.35	H	52.76	73.98	21.22	PK
5460	31.41	8.35	H	39.76	53.98	14.22	AV
5470	50.89	8.31	H	59.2	68.20	9.00	PK
5460	43.86	8.35	V	52.21	73.98	21.77	PK
5460	30.97	8.31	V	39.28	53.98	14.70	AV
5470	49.79	8.31	V	58.1	68.20	10.10	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
5850	45.76	9.25	H	55.01	68.20	13.19	PK
5850	44.05	9.25	V	53.30	68.20	14.90	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	45.60	8.02	H	53.62	73.98	20.36	PK
5150	33.79	8.02	H	41.81	53.98	12.17	AV
5150	44.83	8.02	V	52.85	73.98	21.13	PK
5150	33.70	8.02	V	41.72	53.98	12.26	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	46.46	7.87	H	54.33	73.98	19.65	PK
5350	33.42	7.87	H	41.29	53.98	12.69	AV
5350	45.50	7.87	V	53.37	73.98	20.61	PK
5350	32.26	7.87	V	40.13	53.98	13.85	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	44.41	8.35	H	52.76	73.98	21.22	PK
5460	31.24	8.35	H	39.59	53.98	14.39	AV
5470	46.02	8.31	H	54.33	68.20	13.87	PK
5460	43.72	8.35	V	52.07	73.98	21.91	PK
5460	30.18	8.31	V	38.49	53.98	15.49	AV
5470	45.68	8.31	V	53.99	68.20	14.21	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	45.56	9.25	H	54.81	68.20	13.39	PK
5850	44.26	9.25	V	53.51	68.20	14.69	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	45.89	8.02	H	53.91	73.98	20.07	PK
5150	33.47	8.02	H	41.49	53.98	12.49	AV
5150	44.37	8.02	V	52.39	73.98	21.59	PK
5150	33.40	8.02	V	41.42	53.98	12.56	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	46.03	7.87	H	53.90	73.98	20.08	PK
5350	33.29	7.87	H	41.16	53.98	12.82	AV
5350	44.89	7.87	V	52.76	73.98	21.22	PK
5350	32.71	7.87	V	40.58	53.98	13.40	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	44.43	8.35	H	52.78	73.98	21.20	PK
5460	31.16	8.35	H	39.51	53.98	14.47	AV
5470	46.81	8.31	H	55.12	68.20	13.08	PK
5460	42.21	8.35	V	50.56	73.98	23.42	PK
5460	30.80	8.31	V	39.11	53.98	14.87	AV
5470	45.15	8.31	V	53.46	68.20	14.74	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	44.92	9.25	H	54.17	68.20	14.03	PK
5850	43.72	9.25	V	52.97	68.20	15.23	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	53.85	8.02	H	61.87	73.98	12.11	PK
5150	40.85	8.02	H	48.87	53.98	5.11	AV
5150	50.91	8.02	V	58.93	73.98	15.05	PK
5150	39.28	8.02	V	47.3	53.98	6.68	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	44.16	8.02	H	52.18	73.98	21.80	PK
5150	33.26	8.02	H	41.28	53.98	12.70	AV
5150	42.76	8.02	V	50.78	73.98	23.20	PK
5150	31.95	8.02	V	39.97	53.98	14.01	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	44.22	7.87	H	52.09	73.98	21.89	PK
5350	31.60	7.87	H	39.47	53.98	14.51	AV
5350	43.95	7.87	V	51.82	73.98	22.16	PK
5350	31.49	7.87	V	39.36	53.98	14.62	AV

Band :	UNII 2A
Operation Mode:	802.11 n_HT40
Transfer MCS Index:	0
Operating Frequency	5310 MHz
Channel No.	62 Ch

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	56.77	7.87	H	64.64	73.98	9.34	PK
5350	41.33	7.87	H	49.2	53.98	4.78	AV
5350	54.64	7.87	V	62.51	73.98	11.47	PK
5350	40.05	7.87	V	47.92	53.98	6.06	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	44.96	8.35	H	53.31	73.98	20.67	PK
5460	32.13	8.35	H	40.48	53.98	13.50	AV
5470	53.57	8.31	H	61.88	68.20	6.32	PK
5460	44.42	8.35	V	52.77	73.98	21.21	PK
5460	31.89	8.31	V	40.2	53.98	13.78	AV
5470	51.04	8.31	V	59.35	68.20	8.85	PK

Band : UNII 2C
Operation Mode: 802.11 n_HT40
Transfer MCS Index: 0
Operating Frequency 5550 MHz
Channel No. 110 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	44.64	8.35	H	52.99	73.98	20.99	PK
5460	31.95	8.35	H	40.3	53.98	13.68	AV
5470	43.61	8.31	H	51.92	68.20	16.28	PK
5460	43.27	8.35	V	51.62	73.98	22.36	PK
5460	31.14	8.31	V	39.45	53.98	14.53	AV
5470	42.87	8.31	V	51.18	68.20	17.02	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	45.24	9.25	H	54.49	68.20	13.71	PK
5850	44.62	9.25	V	53.87	68.20	14.33	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	48.67	8.02	H	56.69	73.98	17.29	PK
5150	35.18	8.02	H	43.2	53.98	10.78	AV
5150	46.56	8.02	V	54.58	73.98	19.40	PK
5150	34.41	8.02	V	42.43	53.98	11.55	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	43.10	8.02	H	51.12	73.98	22.86	PK
5150	31.25	8.02	H	39.27	53.98	14.71	AV
5150	42.66	8.02	V	50.68	73.98	23.30	PK
5150	30.84	8.02	V	38.86	53.98	15.12	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	43.63	7.87	H	51.50	73.98	22.48	PK
5350	31.73	7.87	H	39.60	53.98	14.38	AV
5350	42.78	7.87	V	50.65	73.98	23.33	PK
5350	31.52	7.87	V	39.39	53.98	14.59	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	55.45	7.87	H	63.32	73.98	10.66	PK
5350	40.77	7.87	H	48.64	53.98	5.34	AV
5350	53.90	7.87	V	61.77	73.98	12.21	PK
5350	40.12	7.87	V	47.99	53.98	5.99	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	45.80	8.35	H	54.15	73.98	19.83	PK
5460	32.43	8.35	H	40.78	53.98	13.20	AV
5470	52.92	8.31	H	61.23	68.20	6.97	PK
5460	44.47	8.35	V	52.82	73.98	21.16	PK
5460	31.92	8.31	V	40.23	53.98	13.75	AV
5470	50.95	8.31	V	59.26	68.20	8.94	PK

Band : UNII 2C
Operation Mode: 802.11 ac_VHT40
Transfer MCS Index: 0
Operating Frequency 5550 MHz
Channel No. 110 Ch

Frequency [MHz]	Reading DBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5460	44.11	8.35	H	52.46	73.98	21.52	PK
5460	31.28	8.35	H	39.63	53.98	14.35	AV
5470	45.09	8.31	H	53.4	68.20	14.80	PK
5460	43.30	8.35	V	51.65	73.98	22.33	PK
5460	30.89	8.31	V	39.2	53.98	14.78	AV
5470	43.77	8.31	V	52.08	68.20	16.12	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	45.54	9.25	H	54.79	68.20	13.41	PK
5850	45.03	9.25	V	54.28	68.20	13.92	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	48.52	8.02	H	56.54	73.98	17.44	PK
5150	36.18	8.02	H	44.20	53.98	9.78	AV
5150	44.62	8.02	V	52.64	73.98	21.34	PK
5150	33.29	8.02	V	41.31	53.98	12.67	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP+ATT. +D.F. [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
5350	54.39	7.87	H	62.26	73.98	11.72	PK
5350	40.64	7.87	H	48.51	53.98	5.47	AV
5350	51.44	7.87	V	59.31	73.98	14.67	PK
5350	39.90	7.87	V	47.77	53.98	6.21	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	48.77	8.35	H	57.12	73.98	16.86	PK
5460	36.39	8.35	H	44.74	53.98	9.24	AV
5470	52.13	8.31	H	60.44	68.20	7.76	PK
5460	46.97	8.35	V	55.32	73.98	18.66	PK
5460	35.55	8.31	V	43.86	53.98	10.12	AV
5470	48.46	8.31	V	56.77	68.20	11.43	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	45.21	9.25	H	54.46	68.20	13.74	PK
5850	44.92	9.25	V	54.17	68.20	14.03	PK

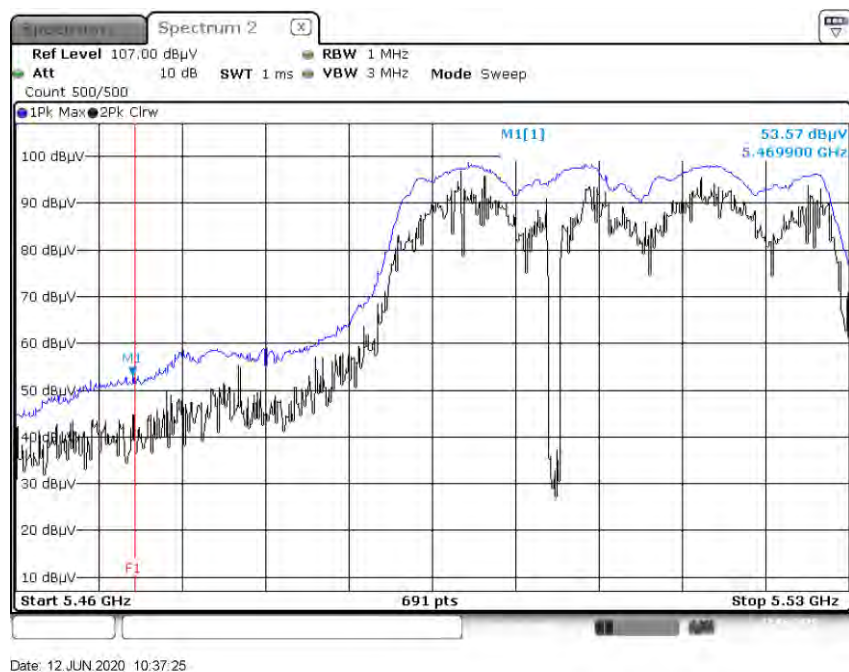
[Ant.1&Ant.2_MIMO(CDD)]

▣ Test Plots(UNII 1, 2A, 2C)

Average Reading (802.11 n(HT40)_MCS0, Ch.62, X-H)



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

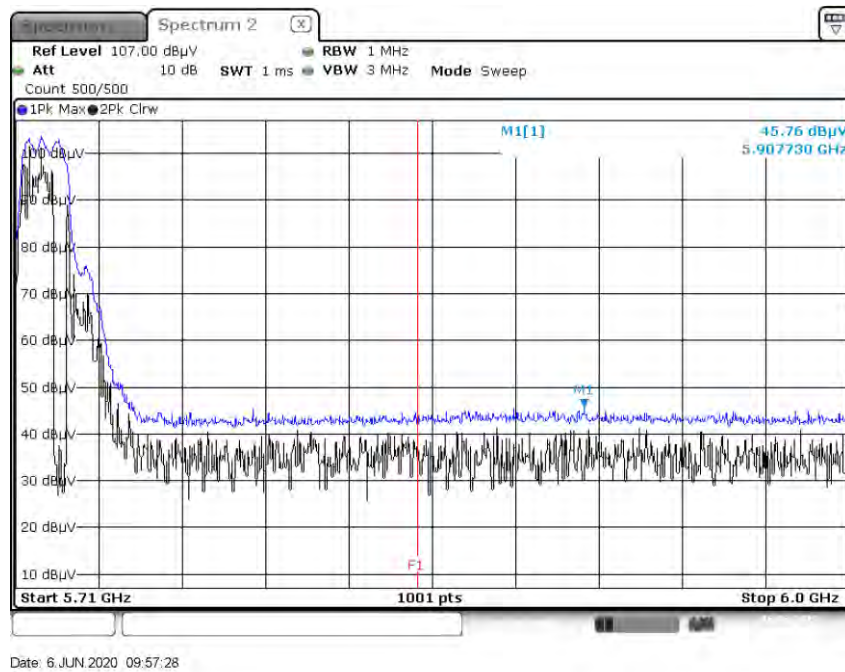


Note:

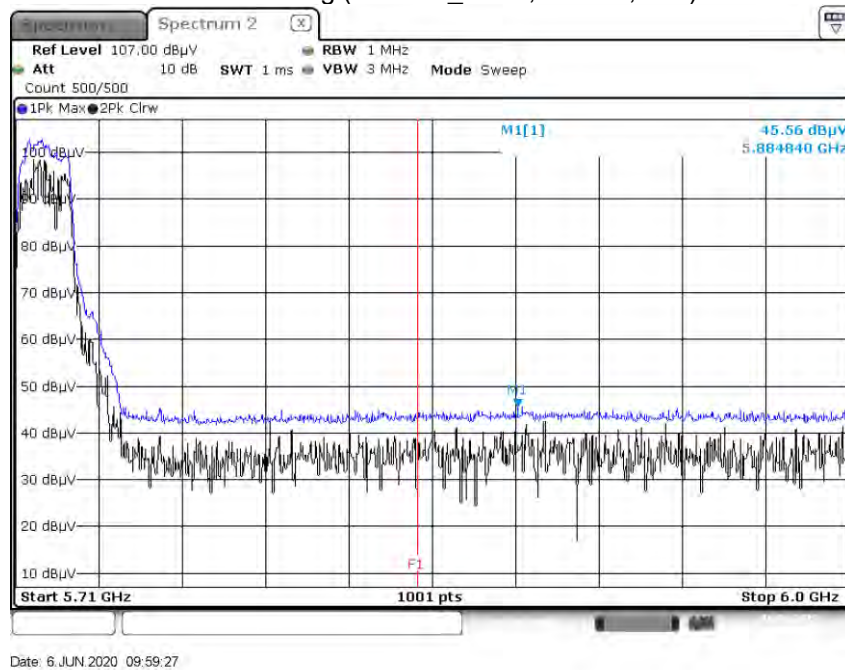
Only the worst case plots for Radiated Restricted Band Edge.

■ Test Plots(Staraddle Channel)

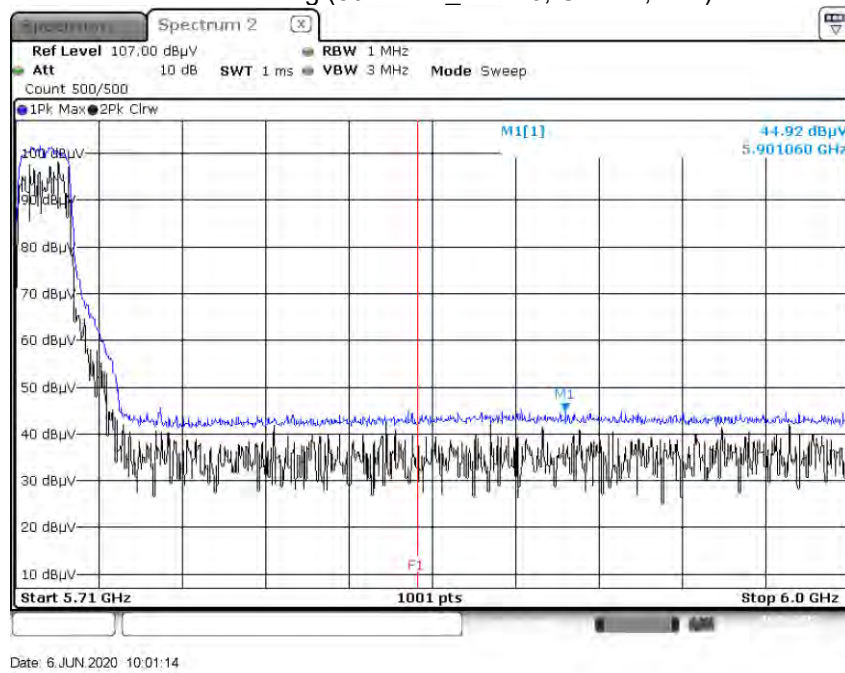
Peak Reading (802.11a, Ch.144, Z-H)



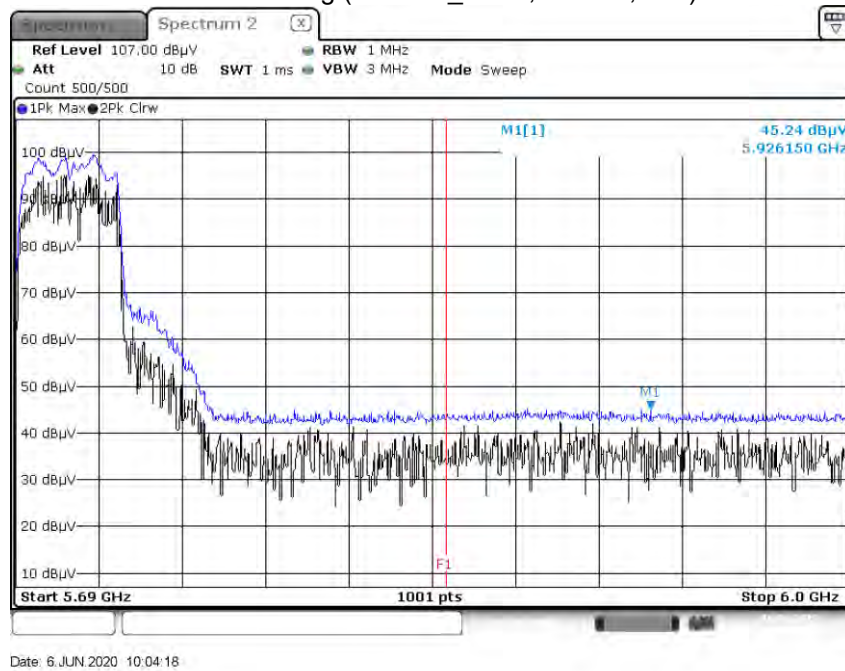
Peak Reading (802.11n_HT20, Ch.144, Z-H)



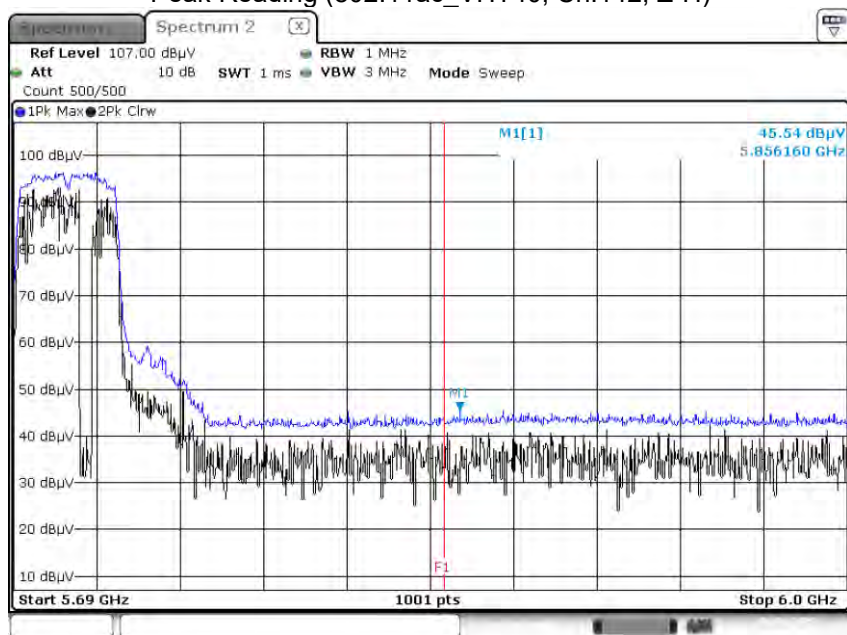
Peak Reading (802.11ac_VHT20, Ch.144, Z-H)



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

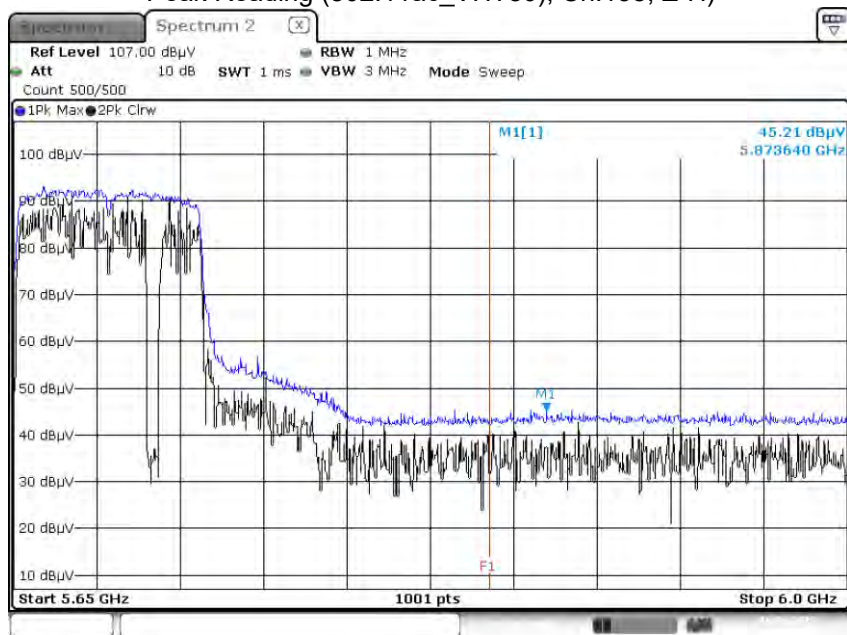


Peak Reading (802.11ac_VHT40, Ch.142, Z-H)



Date: 6 JUN 2020 10:05:45

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



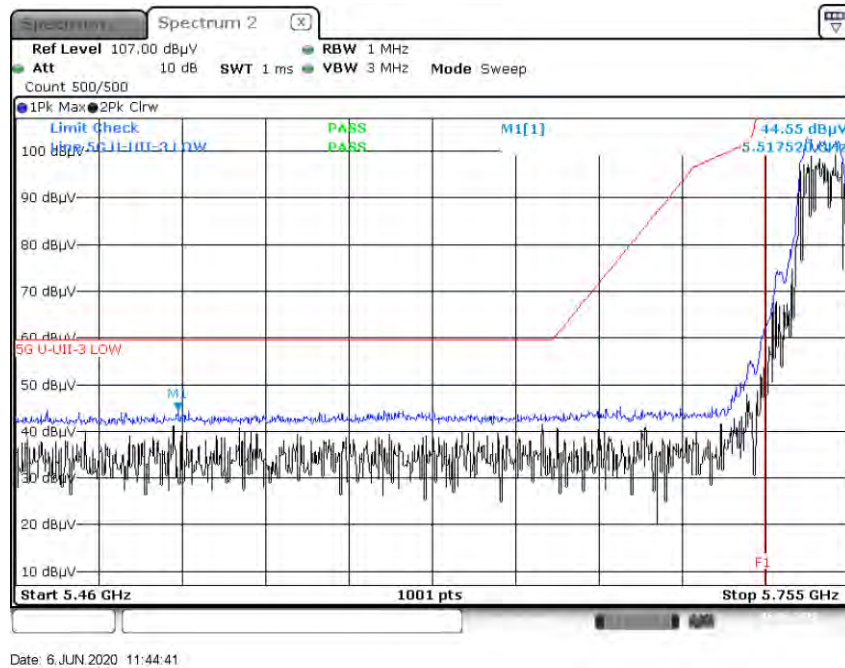
Date: 6 JUN 2020 10:08:21

Note :

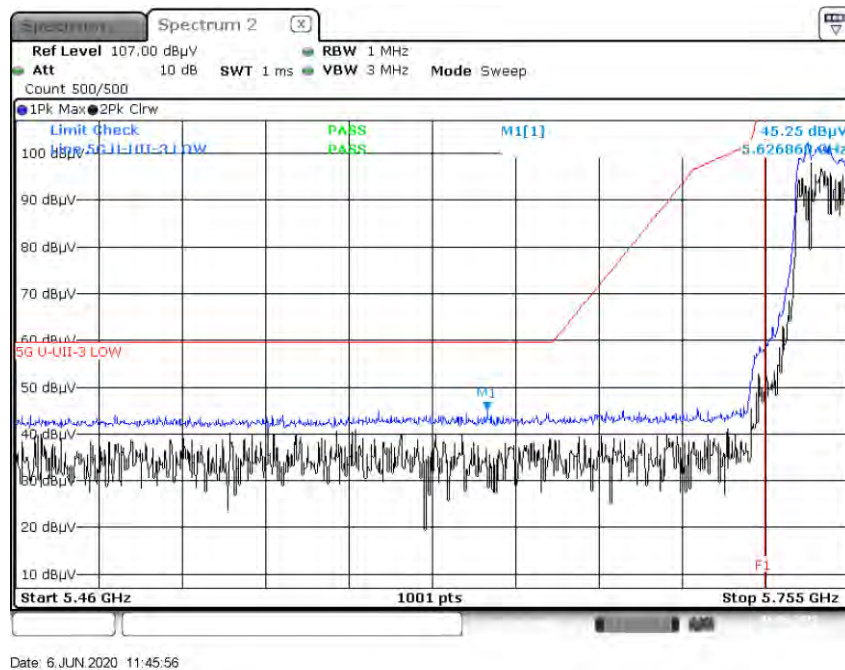
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)

■ Test Plots(UNII 3)

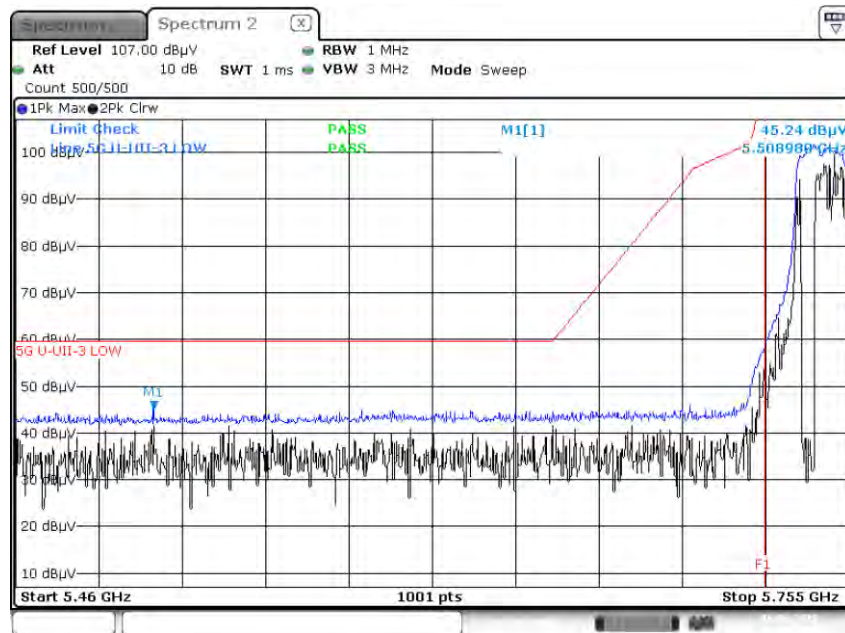
Peak Reading (802.11a, Ch.149, Z-H)



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

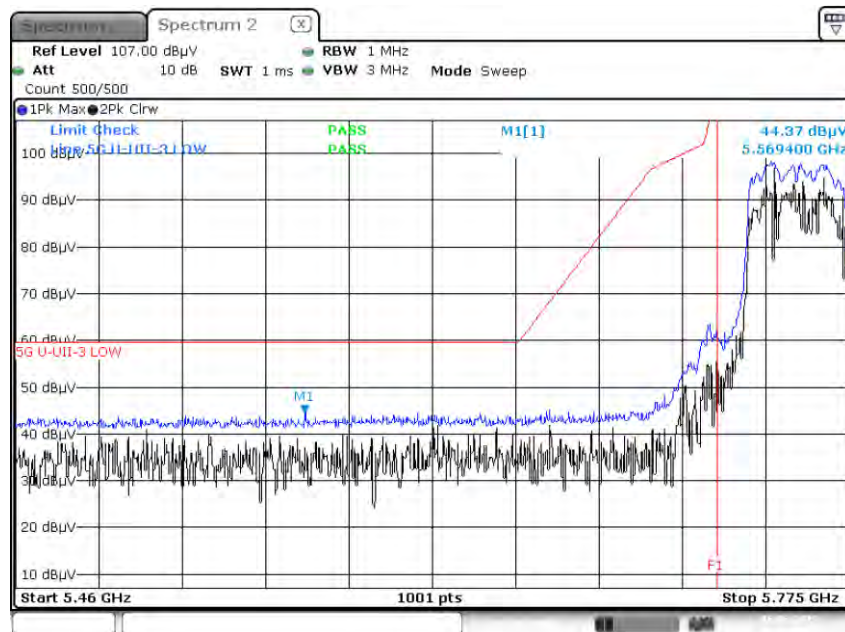


Peak Reading (802.11ac_VHT20, Ch.149, Z-H)



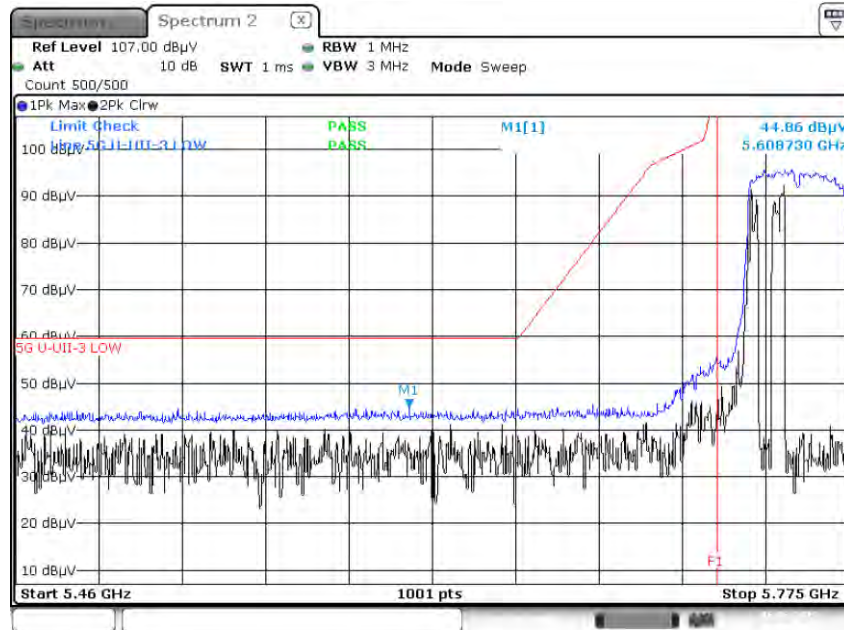
Date: 6 JUN 2020 11:47:36

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



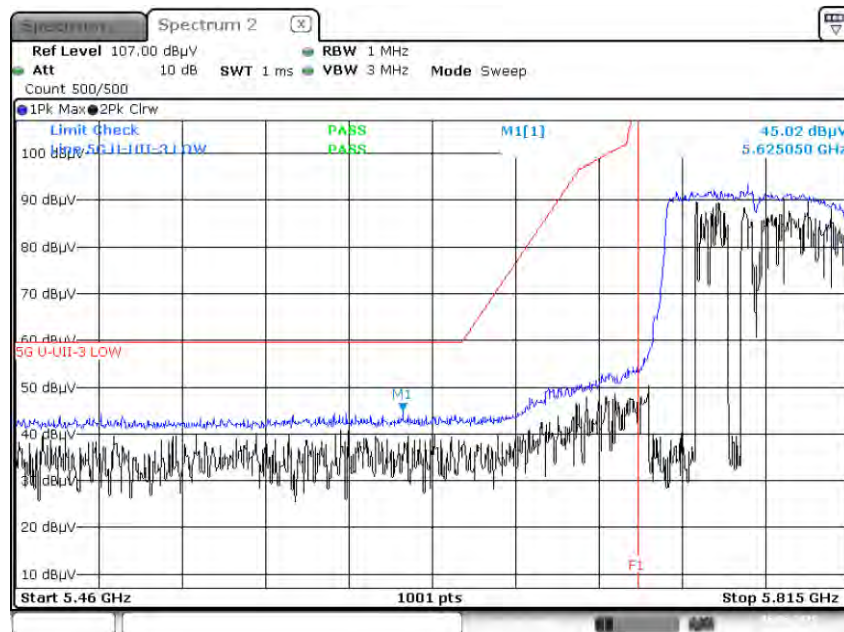
Date: 6 JUN 2020 11:49:55

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



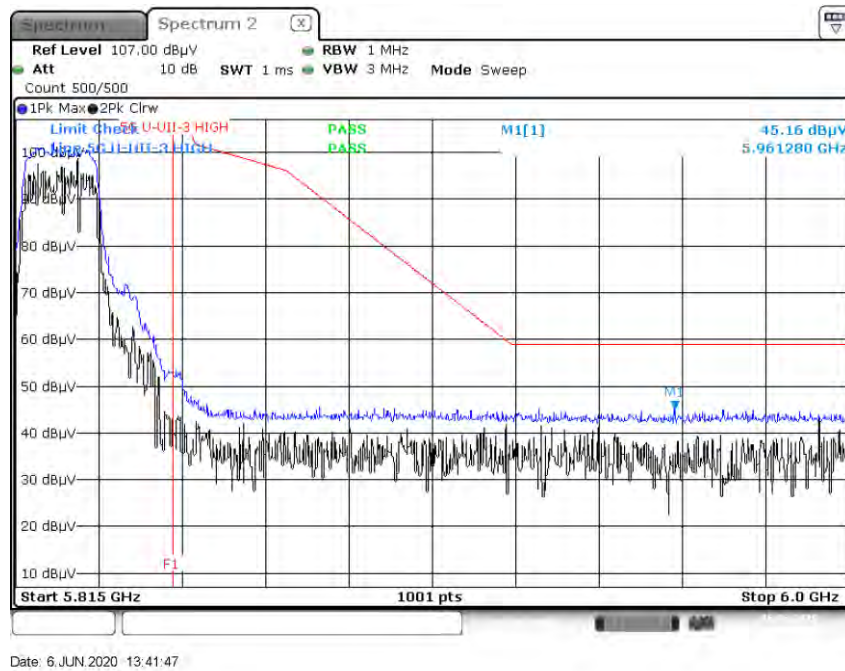
Date: 6 JUN 2020 11:51:24

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

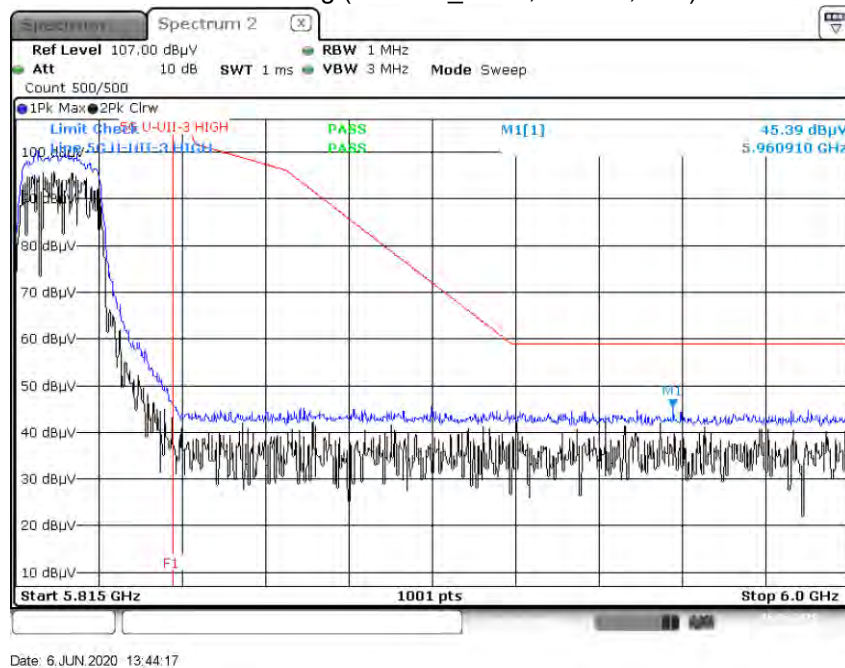


Date: 6 JUN 2020 11:55:15

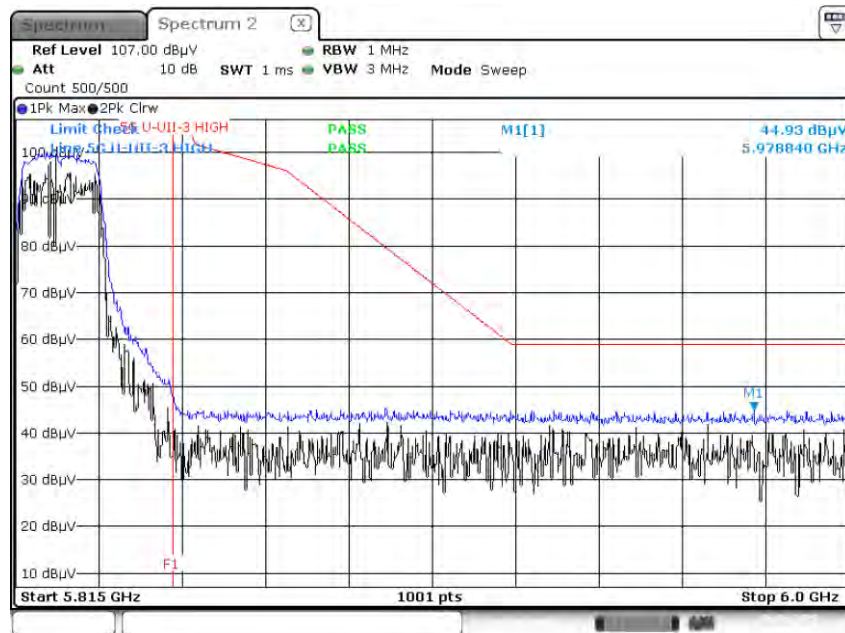
Peak Reading (802.11a, Ch.165, Z-H)



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

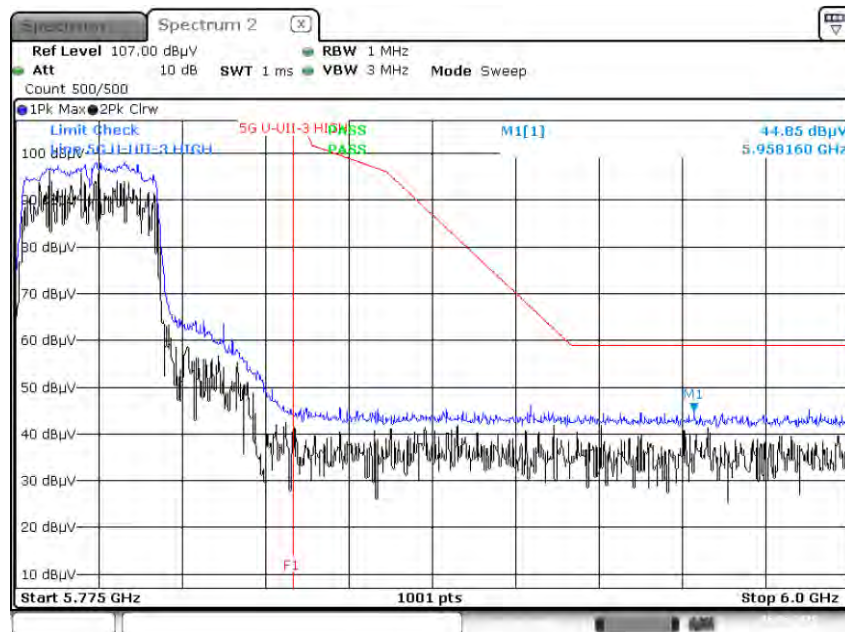


Peak Reading (802.11ac_VHT20, Ch.165, Z-H)



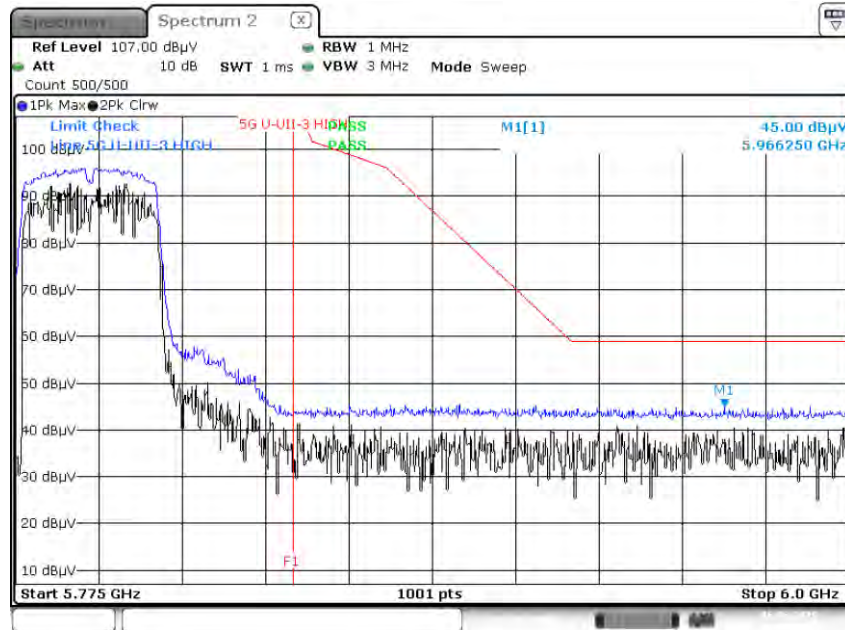
Date: 6 JUN 2020 13:45:17

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



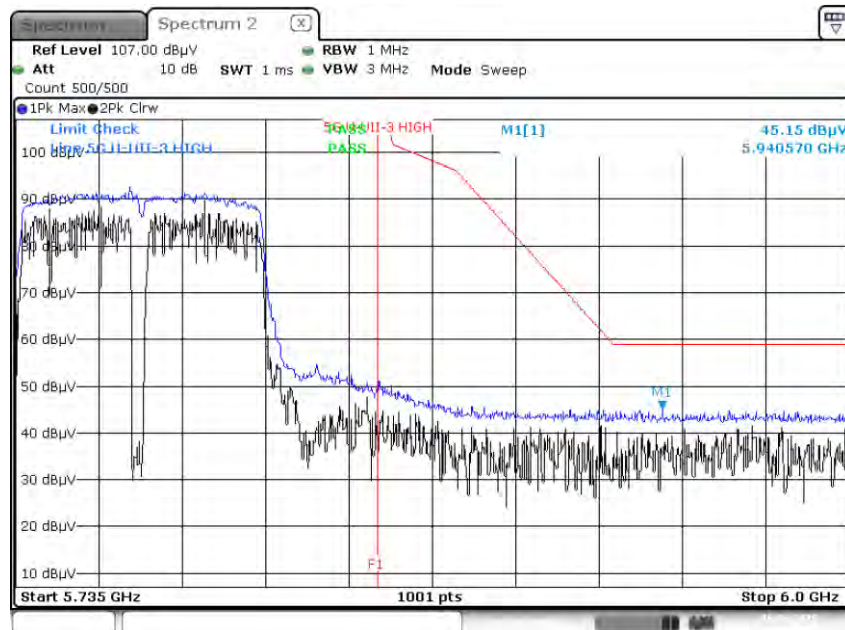
Date: 6 JUN 2020 13:47:59

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



Date: 6 JUN 2020 13:49:26

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



Date: 6 JUN 2020 13:52:21

10.10 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

WLAN 5G MODE_L1

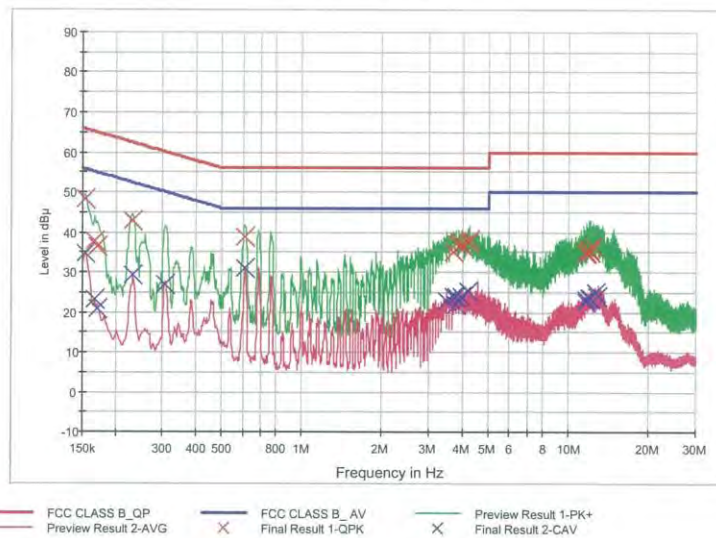
1 / 2

HCT TEST Report

Common Information

EUT: SM-T878U
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN 5G MODE_L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	48.4	9.000	Off	L1	9.8	17.4	65.8
0.166000	37.9	9.000	Off	L1	9.8	27.3	65.2
0.170000	36.6	9.000	Off	L1	9.8	28.4	65.0
0.230000	42.9	9.000	Off	L1	9.8	19.5	62.4
0.608000	38.9	9.000	Off	L1	9.8	17.1	56.0
0.612000	38.7	9.000	Off	L1	9.8	17.3	56.0
3.700000	35.2	9.000	Off	L1	10.0	20.8	56.0
3.800000	37.2	9.000	Off	L1	10.0	18.8	56.0
3.876000	37.7	9.000	Off	L1	10.0	18.3	56.0
3.954000	36.7	9.000	Off	L1	10.0	19.3	56.0
4.182000	37.5	9.000	Off	L1	10.0	18.5	56.0
4.258000	38.2	9.000	Off	L1	10.0	17.8	56.0
11.620000	35.2	9.000	Off	L1	10.3	24.8	60.0
11.632000	34.9	9.000	Off	L1	10.3	25.1	60.0
11.850000	35.8	9.000	Off	L1	10.3	24.2	60.0
12.076000	35.2	9.000	Off	L1	10.3	24.8	60.0
12.092000	35.2	9.000	Off	L1	10.3	24.8	60.0
12.384000	36.6	9.000	Off	L1	10.3	23.4	60.0

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WLAN 5G MODE_L1

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	34.7	9.000	Off	L1	9.8	21.1	55.8
0.166000	23.2	9.000	Off	L1	9.8	32.0	55.2
0.170000	20.9	9.000	Off	L1	9.8	34.0	55.0
0.232000	29.2	9.000	Off	L1	9.8	23.1	52.4
0.306000	27.0	9.000	Off	L1	9.8	23.0	50.1
0.614000	30.9	9.000	Off	L1	9.8	15.1	46.0
3.498000	23.0	9.000	Off	L1	9.9	23.0	46.0
3.710000	23.9	9.000	Off	L1	10.0	22.1	46.0
3.790000	23.8	9.000	Off	L1	10.0	22.2	46.0
3.800000	21.9	9.000	Off	L1	10.0	24.1	46.0
3.958000	24.0	9.000	Off	L1	10.0	22.0	46.0
4.182000	25.2	9.000	Off	L1	10.0	20.8	46.0
11.620000	22.6	9.000	Off	L1	10.3	27.4	50.0
11.632000	23.3	9.000	Off	L1	10.3	26.7	50.0
11.848000	23.4	9.000	Off	L1	10.3	26.6	50.0
12.092000	23.6	9.000	Off	L1	10.3	26.4	50.0
12.698000	24.8	9.000	Off	L1	10.3	25.2	50.0
12.710000	23.9	9.000	Off	L1	10.3	26.1	50.0

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Conducted Emissions (Line 2)

WLAN 5G MODE_N

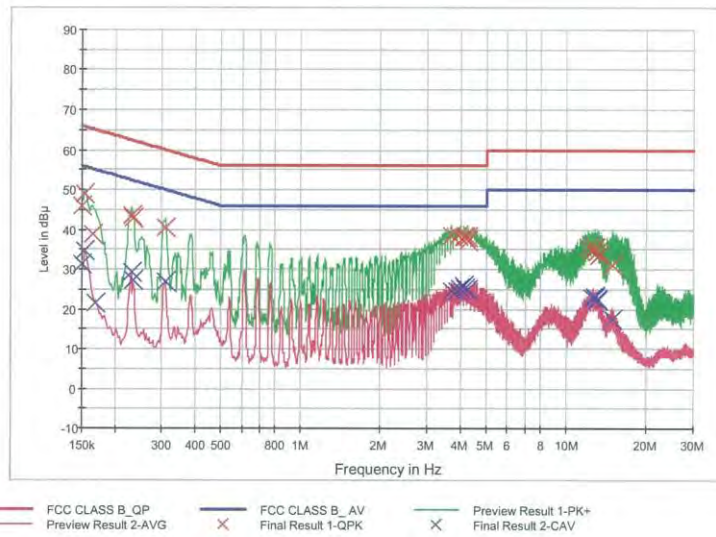
1 / 2

HCT TEST Report

Common Information

EUT: SM-T878U
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: WLAN 5G MODE_N

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	45.8	9.000	Off	N	9.8	20.2	66.0
0.154000	49.0	9.000	Off	N	9.8	16.8	65.8
0.164000	38.9	9.000	Off	N	9.8	26.3	65.3
0.230000	43.6	9.000	Off	N	9.8	18.8	62.4
0.234000	42.8	9.000	Off	N	9.8	19.6	62.3
0.310000	40.4	9.000	Off	N	9.8	19.5	60.0
3.712000	38.6	9.000	Off	N	10.0	17.4	56.0
3.942000	38.4	9.000	Off	N	10.0	17.6	56.0
4.098000	38.1	9.000	Off	N	10.0	17.9	56.0
4.172000	38.0	9.000	Off	N	10.0	18.0	56.0
4.248000	38.2	9.000	Off	N	10.0	17.8	56.0
4.260000	37.0	9.000	Off	N	10.0	19.0	56.0
11.994000	35.4	9.000	Off	N	10.3	24.6	60.0
12.544000	34.3	9.000	Off	N	10.4	25.7	60.0
12.768000	35.5	9.000	Off	N	10.4	24.5	60.0
13.150000	34.6	9.000	Off	N	10.4	25.4	60.0
13.242000	33.6	9.000	Off	N	10.4	26.4	60.0
14.900000	31.0	9.000	Off	N	10.4	29.0	60.0

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WLAN 5G MODE_N

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	31.3	9.000	Off	N	9.8	24.7	56.0
0.154000	34.7	9.000	Off	N	9.8	21.1	55.8
0.168000	21.4	9.000	Off	N	9.8	33.6	55.1
0.230000	29.2	9.000	Off	N	9.8	23.2	52.4
0.234000	27.2	9.000	Off	N	9.8	25.1	52.3
0.308000	26.8	9.000	Off	N	9.8	23.2	50.0
3.712000	24.4	9.000	Off	N	10.0	21.6	46.0
3.864000	24.7	9.000	Off	N	10.0	21.3	46.0
3.944000	25.1	9.000	Off	N	10.0	20.9	46.0
4.098000	25.8	9.000	Off	N	10.0	20.2	46.0
4.172000	25.3	9.000	Off	N	10.0	20.7	46.0
4.248000	24.8	9.000	Off	N	10.0	21.2	46.0
12.440000	22.8	9.000	Off	N	10.3	27.2	50.0
12.754000	23.0	9.000	Off	N	10.4	27.0	50.0
12.768000	23.3	9.000	Off	N	10.4	26.7	50.0
13.082000	22.3	9.000	Off	N	10.4	27.7	50.0
13.150000	22.6	9.000	Off	N	10.4	27.4	50.0
14.900000	17.4	9.000	Off	N	10.4	32.6	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	06/10/2020	Annual	100584
ESPACE	SU-642 / Temperature Chamber	08/14/2019	Annual	0093000718
Agilent	N9020A / Signal Analyzer	05/11/2020	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	03/23/2020	Annual	MY49432108
Agilent	N1911A / Power Meter	04/07/2020	Annual	MY45100523
Agilent	N1921A / Power Sensor	03/23/2020	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/11/2019	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	02/24/2020	Annual	10545
Hewlett Packard	E3632A / DC Power Supply	09/27/2019	Annual	MY40004427
Agilent	8493C / Attenuator(10 dB)	07/02/2019	Annual	07560
Rohde & Schwarz	18N-20dB / Attenuator(20 dB)	03/23/2020	Annual	8
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	03/02/2020	Annual	100808

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
TNM system	FB SM-01B / Amp & Filter Bank Switch Controller	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	05/18/2020	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/02/2019	Biennial	01039
Schwarzbeck	BBHA 9120D / Horn Antenna	06/28/2019	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	04/29/2019	Biennial	BBHA9170342
Weinschel	2-3 / Attenuator (3 dB)	10/08/2019	Annual	BR0617
Rohde & Schwarz	FSV(10 Hz ~ 40 GHz) / Spectrum Analyzer	05/13/2020	Annual	101055
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	01/21/2020	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	02/10/2020	Annual	1
CERNEX	CBL18265035 / Power Amplifier	12/26/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	03/23/2020	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/18/2020	Annual	3000C000276
TNM system	FB SM-05B / HPF(3~18GHz) + LNA1(1~18GHz)	01/21/2020	Annual	F6
TNM system	FB SM-05B / ATT(10dB) + LNA1(1~18GHz)	01/21/2020	Annual	None
TNM system	FB SM-05B / ATT(3dB) + LNA1(1~18GHz)	01/21/2020	Annual	None
TNM system	FB SM-05B / LNA1(1~18GHz)	01/21/2020	Annual	25540
TNM system	FB SM-05B / HPF(7~18GHz) + LNA2(6~18GHz)	01/21/2020	Annual	28550
TNM system	FB SM-05B / Thru(30MHz ~ 18GHz)	01/21/2020	Annual	None

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-2007-FC011-P