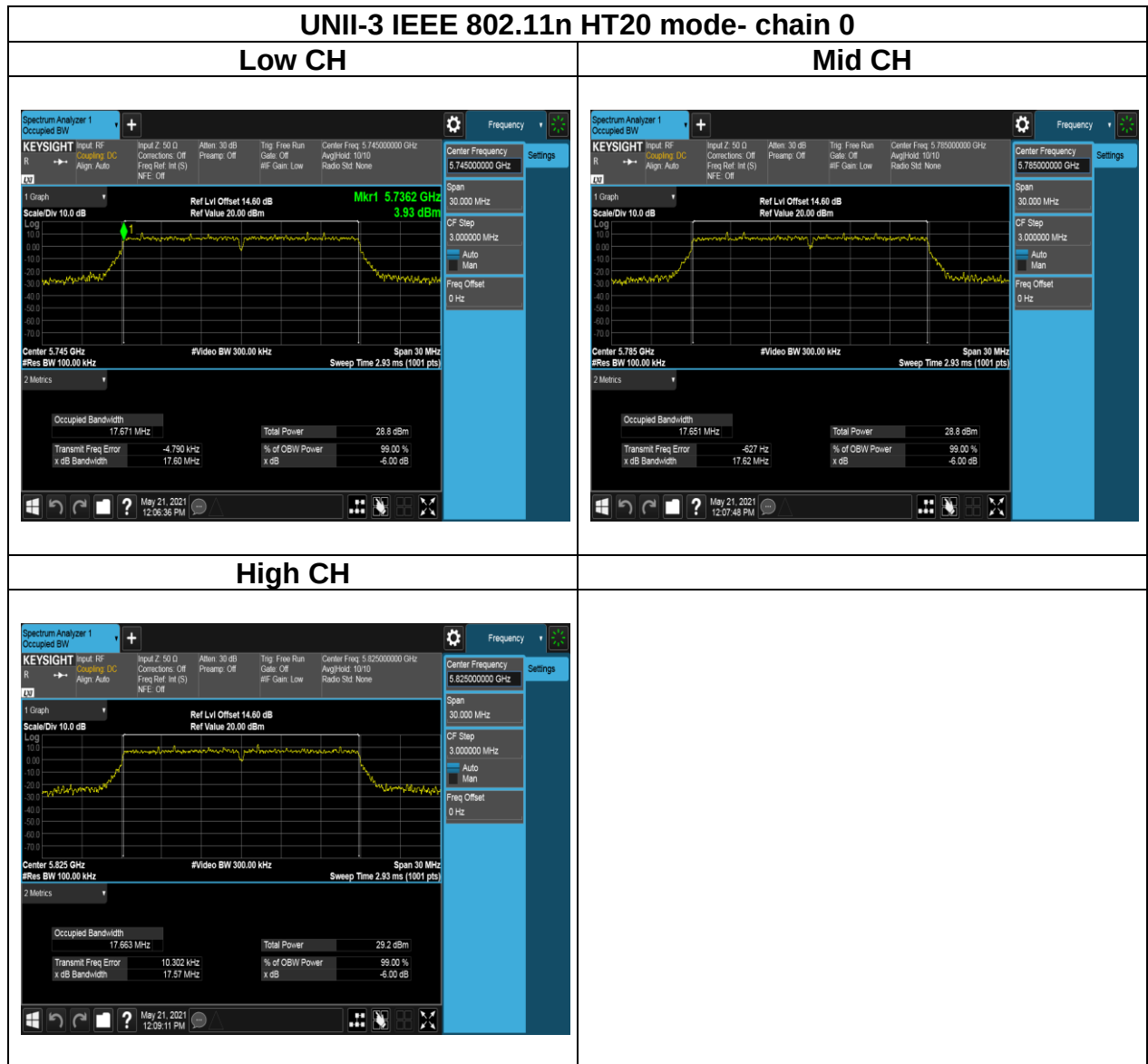
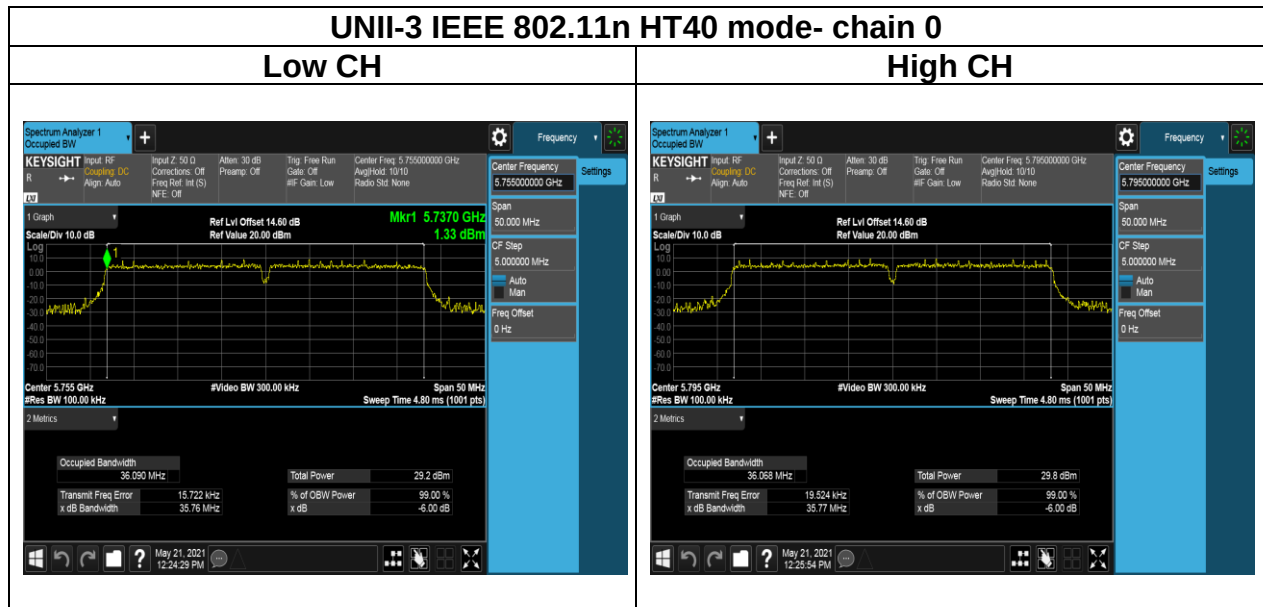






4.3 OUTPUT POWER MEASUREMENT

4.3.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3), and RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

FCC:

UNII-1 :

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW(24 dBm), whichever power is less. B is the 99% emission bandwidth in megahertz, provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-2a and 2c:

the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. and The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC:**UNII-1 :**

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

UNII-2a and 2c:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-2c (5470-5600 MHz and 5650-5725 MHz)

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-1 Limit	☒ Antenna not exceed 6 dBi : 24dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 24 – (DG – 6)]
UNII-2a/2c Limit	☒ Antenna not exceed 6 dBi : 24dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 24 – (DG – 6)]
UNII-3 Limit	☒ Antenna not exceed 6 dBi : 30dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]

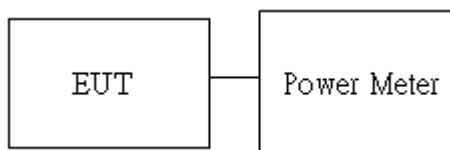
4.3.2 Test Procedure

Test method Refer as KDB 789033 D02, Section E.3.b for BW 20MHz and 40MHz, E.2.b for BW 80MHz.

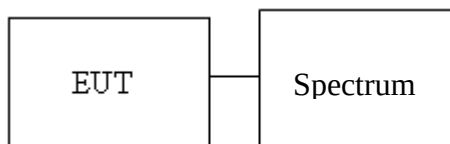
1. The EUT RF output connected to the power meter or spectrum by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Average output power. in the test report.

4.3.3 Test Setup

For BW 20MHz and 40MHz



For BW 80MHz



Report No.: T210413W02-RP4

4.3.4 Test Result

Temperature: 25.8°C

Tested by:

Lance Chen

Humidity: 50.7% RH

Test date:

May 21, 2021

FCC Output power

IEEE 802.11a Mode:

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	17	16.31	42.779	23.98	PASS
44	5220	6	17	15.28	33.746	23.98	PASS
48	5240	6	17	16.33	42.976	23.98	PASS
52	5260	6	17	15.58	36.160	23.86	PASS
60	5300	6	17	15.44	35.013	23.81	PASS
64	5320	6	17	15.24	33.437	23.85	PASS
100	5500	6	17	14.75	29.870	23.98	PASS
116	5580	6	17	15.39	34.612	23.98	PASS
140	5700	6	17	13.54	22.606	23.98	PASS
144	5720(U-NII 2C)	6	17	12.38	17.306	22.66	PASS
144	5720 (U-NII 3)	6	17	7.41	5.509	30	PASS
149	5745	6	17	12.66	18.460	30	PASS
157	5785	6	17	12.69	18.588	30	PASS
165	5825	6	17	12.60	18.207	30	PASS

802.11n HT20 Mode:

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	16.27	42.387	23.98	PASS
44	5220	MCS0	17	16.20	41.709	23.98	PASS
48	5240	MCS0	17	15.88	38.746	23.98	PASS
52	5260	MCS0	17	15.36	34.374	23.98	PASS
60	5300	MCS0	17	15.44	35.013	23.95	PASS
64	5320	MCS0	17	14.99	31.567	23.94	PASS
100	5500	MCS0	17	15.32	34.059	23.94	PASS
116	5580	MCS0	17	14.77	30.007	23.98	PASS
140	5700	MCS0	17	13.55	22.658	23.98	PASS
144	5720(U-NII 2C)	MCS0	17	12.34	17.13	23.98	PASS
144	5720 (U-NII 3)	MCS0	17	7.59	5.74	30	PASS
149	5745	MCS0	17	12.72	18.717	30	PASS
157	5785	MCS0	17	12.71	18.674	30	PASS
165	5825	MCS0	17	12.64	18.375	30	PASS



Report No.: T210413W02-RP4

Page: 49 / 184

Rev.: 01

802.11n HT40 Mode:

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	17	13.38	21.791	23.98	PASS
46	5230	MCS0	17	16.24	42.099	23.98	PASS
54	5270	MCS0	17	15.36	34.378	23.98	PASS
62	5310	MCS0	17	14.46	27.943	23.98	PASS
102	5510	MCS0	17	11.78	15.076	23.98	PASS
110	5550	MCS0	17	15.91	39.019	23.98	PASS
134	5670	MCS0	17	13.48	22.299	23.98	PASS
142	5710(U-NII 2C)	MCS0	17	12.78	18.95	23.98	PASS
142	5710 (U-NII 3)	MCS0	17	5.63	3.65	30	PASS
151	5755	MCS0	17	12.67	18.504	30	PASS
159	5795	MCS0	17	12.71	18.676	30	PASS

IC Output power

IEEE 802.11a Mode:

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.58	36.160	23.16	PASS
60	5300	15.44	35.013	23.16	PASS
64	5320	15.24	33.437	23.16	PASS
100	5500	14.75	29.870	23.18	PASS
116	5580	15.39	34.612	23.19	PASS
140	5700	13.54	22.606	23.22	PASS
144	5720(U-NII 2C)	12.38	17.306	22.25	PASS
144	5720 (U-NII 3)	7.41	5.509	30	PASS
149	5745	12.66	18.460	30	PASS
157	5785	12.69	18.588	30	PASS
165	5825	12.60	18.207	30	PASS

802.11n HT20 Mode:

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	15.36	34.374	23.44	PASS
60	5300	15.44	35.013	23.45	PASS
64	5320	14.99	31.567	23.45	PASS
100	5500	15.32	34.059	23.47	PASS
116	5580	14.77	30.007	23.46	PASS
140	5700	13.55	22.658	23.49	PASS
144	5720(U-NII 2C)	12.34	17.125	22.42	PASS
144	5720 (U-NII 3)	7.59	5.743	30	PASS
149	5745	12.72	18.717	30	PASS
157	5785	12.71	18.674	30	PASS
165	5825	12.64	18.375	30	PASS



Report No.: T210413W02-RP4

Page: 51 / 184

Rev.: 01

802.11n HT40 Mode:

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	15.36	34.378	23.98	PASS
62	5310	14.46	27.943	23.98	PASS
102	5510	11.78	15.076	23.98	PASS
110	5550	15.91	39.019	23.98	PASS
134	5670	13.48	22.299	23.98	PASS
142	5710(U-NII 2C)	12.78	18.955	23.98	PASS
142	5710 (U-NII 3)	5.63	3.654	30	PASS
151	5755	12.67	18.504	30	PASS
159	5795	12.71	18.676	30	PASS

IC EIRP Output power

IEEE 802.11a Mode:

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.31	1.62	17.93	62.120	22.17	PASS
44	5220	15.28	1.62	16.90	49.004	22.17	PASS
48	5240	16.33	1.62	17.95	62.406	22.16	PASS
52	5260	15.58	1.62	17.20	52.508	22.16	PASS
60	5300	15.44	1.62	17.06	50.843	22.16	PASS
64	5320	15.24	1.62	16.86	48.554	22.16	PASS
100	5500	14.75	0.37	15.12	32.526	22.18	PASS
116	5580	15.39	0.37	15.76	37.690	22.19	PASS
140	5700	13.54	0.37	13.91	24.617	22.22	PASS

802.11n HT20 Mode:

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.27	1.62	17.89	61.550	22.45	PASS
44	5220	16.20	1.62	17.82	60.566	22.45	PASS
48	5240	15.88	1.62	17.50	56.264	22.45	PASS
52	5260	15.36	1.62	16.98	49.915	22.44	PASS
60	5300	15.44	1.62	17.06	50.843	22.45	PASS
64	5320	14.99	1.62	16.61	45.838	22.45	PASS
100	5500	15.32	0.37	15.69	37.088	22.47	PASS
116	5580	14.77	0.37	15.14	32.676	22.46	PASS
140	5700	13.55	0.37	13.92	24.673	22.49	PASS

802.11n HT40 Mode:

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	13.38	1.62	15.00	31.643	23.01	PASS
46	5230	16.24	1.62	17.86	61.133	23.01	PASS
54	5270	15.36	1.62	16.98	49.920	25.55	PASS
62	5310	14.46	1.62	16.08	40.577	25.55	PASS
102	5510	11.78	0.37	12.15	16.416	25.58	PASS
110	5550	15.91	0.37	16.28	42.489	25.56	PASS
134	5670	13.48	0.37	13.85	24.282	25.59	PASS

4.4 POWER SPECTRAL DENSITY

4.4.1 Test Limit

According to §15.407 (a)(1), 15.407(a)(2) and 15.407(a)(3)

According to RSS-247 section 6.2.1.1, section 6.2.2.1, section 6.2.3.1 and section 6.2.4.1

UNII-1:

FCC: The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

IC: The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-2a and 2c:

The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

UNII-3:

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

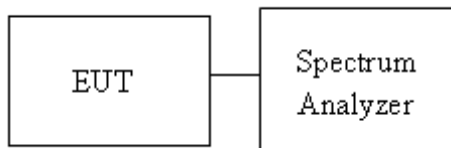
UNII-1 Limit	☒ Antenna not exceed 6 dBi : 11 dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-2a Limit	☒ Antenna not exceed 6 dBi : 11 dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-2c Limit	☒ Antenna not exceed 6 dBi : 11 dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 11 – (DG – 6)]
UNII-3 Limit	☒ Antenna not exceed 6 dBi : 30 dBm ☐ Antenna with DG greater than 6 dBi : [Limit = 30 – (DG – 6)]

4.4.2 Test Procedure

Test method Refer as KDB 789033 D02

1. The EUT RF output connected to the spectrum analyzer by RF cable.
2. Setting maximum power transmit of EUT
3. UNII-1, UNII-2a and UNII-2c, SA set RBW = 1MHz, VBW = 3MHz and Detector = RMS, to measurement Power Density.
4. UNII-3, SA set RBW = 500kHz, VBW = 2MHz and Detector = RMS, to measurement Power Density
5. The path loss and Duty Factor were compensated to the results for each measurement by SA.
6. Mark the maximum level.
7. Measure and record the result of power spectral density. in the test report.

4.4.3 Test Setup



4.4.4 Test Result

Temperature: 23.1°C

Tested by:

Lance Chen

Humidity: 48.6% RH

Test date:

May 10, 2021

IEEE 802.11a Mode:

Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	7.01	0.13	7.14		11.00 dBm/MHz	-3.86
5220	6.13	0.13	6.26		11.00 dBm/MHz	-4.74
5240	6.31	0.13	6.44		11.00 dBm/MHz	-4.56
5260	5.12	0.13	5.25		11.00 dBm/MHz	-5.75
5300	5.20	0.13	5.33		11.00 dBm/MHz	-5.67
5320	5.79	0.13	5.92		11.00 dBm/MHz	-5.08
5500	5.61	0.13	5.74		11.00 dBm/MHz	-5.26
5580	5.18	0.13	5.31		11.00 dBm/MHz	-5.69
5700	1.14	0.13	1.27		11.00 dBm/MHz	-9.73
5720 (U-NII 2C)	3.13	0.13	3.26		11.00 dBm/MHz	-7.74
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-2.31	0.13	2.22	0.04	30.00 dBm/500kHz	-29.96
5745	-2.64	0.13	2.22	-0.29	30.00 dBm/500kHz	-30.29
5785	-2.24	0.13	2.22	0.11	30.00 dBm/500kHz	-29.89
5825	-2.18	0.13	2.22	0.17	30.00 dBm/500kHz	-29.83

EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	7.14	1.62	8.76	10	-1.24
5220	6.26	1.62	7.88	10	-2.12
5240	6.44	1.62	8.06	10	-1.94

IEEE 802.11n HT20 Mode:

Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.15	0.13	6.28		11.00 dBm/MHz	-4.72
5220	6.05	0.13	6.18		11.00 dBm/MHz	-4.82
5240	6.16	0.13	6.29		11.00 dBm/MHz	-4.71
5260	4.98	0.13	5.11		11.00 dBm/MHz	-5.89
5300	4.99	0.13	5.12		11.00 dBm/MHz	-5.88
5320	4.98	0.13	5.11		11.00 dBm/MHz	-5.89
5500	4.88	0.13	5.01		11.00 dBm/MHz	-5.99
5580	5.50	0.13	5.63		11.00 dBm/MHz	-5.37
5700	2.30	0.13	2.43		11.00 dBm/MHz	-8.57
5720 (U-NII 2C)	2.70	0.13	2.83		11.00 dBm/MHz	-8.17
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-2.31	0.13	2.22	0.04	30.00 dBm/500kHz	-29.96
5745	-3.68	0.13	2.22	-1.33	30.00 dBm/500kHz	-31.33
5785	-3.55	0.13	2.22	-1.20	30.00 dBm/500kHz	-31.20
5825	-3.55	0.13	2.22	-1.20	30.00 dBm/500kHz	-31.20

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	6.28	1.62	7.90	10	-2.10
5220	6.18	1.62	7.80	10	-2.20
5240	6.29	1.62	7.91	10	-2.09

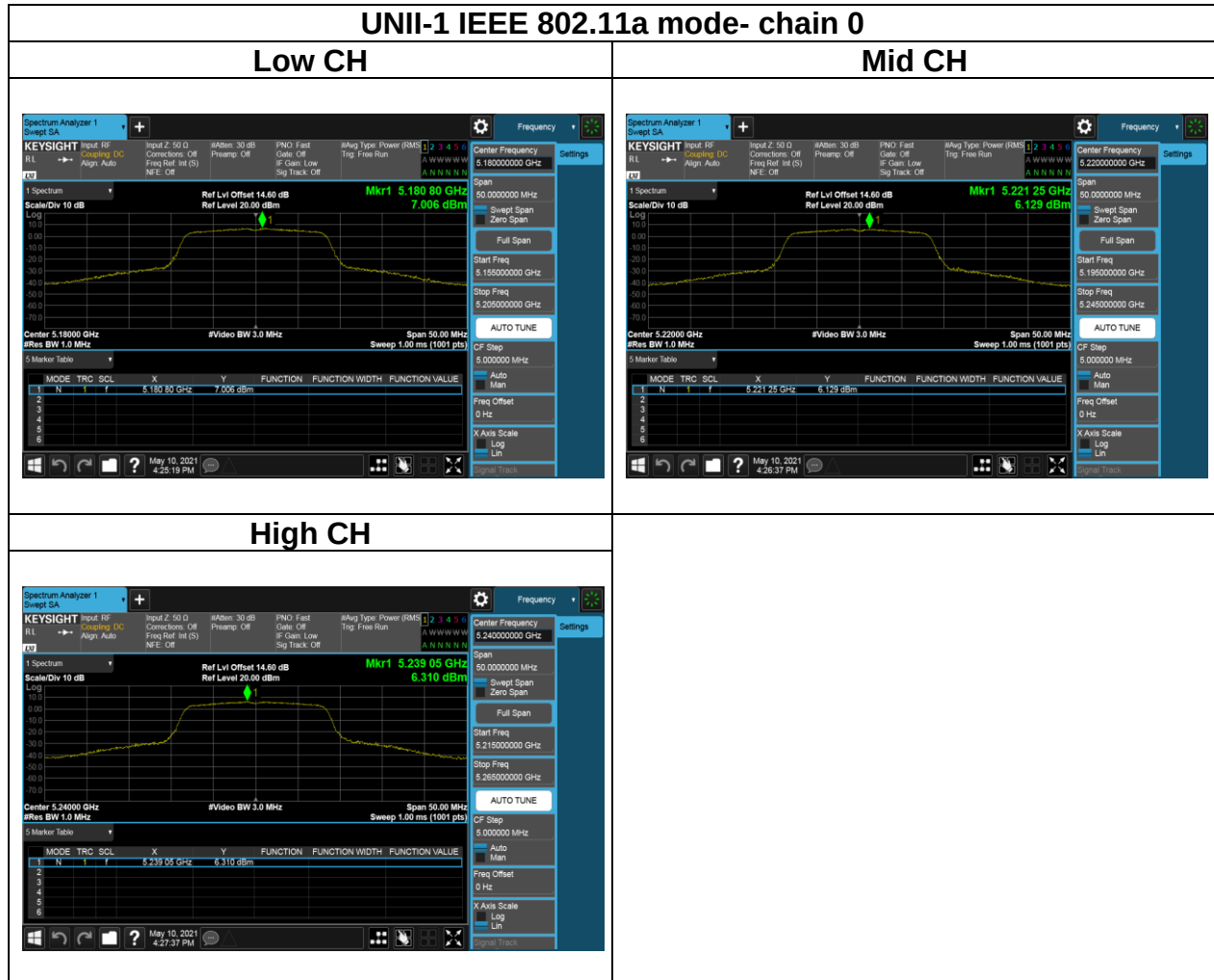
IEEE 802.11n HT40 Mode:

Frequency (MHz)	ch0 meas PSD (dBm/MHz)	Duty Factor (dB)	Maximum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	-0.50	0.22	-0.28		11.00 dBm/MHz	-11.28
5230	2.66	0.22	2.88		11.00 dBm/MHz	-8.12
5270	1.57	0.22	1.79		11.00 dBm/MHz	-9.21
5310	1.06	0.22	1.28		11.00 dBm/MHz	-9.72
5510	-2.32	0.22	-2.10		11.00 dBm/MHz	-13.10
5550	2.68	0.22	2.90		11.00 dBm/MHz	-8.10
5670	-0.51	0.22	-0.29		11.00 dBm/MHz	-11.29
5710 (U-NII 2C)	-0.62	0.22	-0.40		11.00 dBm/MHz	-11.40
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-6.39	0.22	2.22	-3.95	30.00 dBm/500kHz	-33.95
5755	-6.42	0.22	2.22	-3.98	30.00 dBm/500kHz	-33.98
5795	-5.81	0.22	2.22	-3.37	30.00 dBm/500kHz	-33.37

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5190	-0.28	1.62	1.34	10	-8.66
5230	2.88	1.62	4.50	10	-5.50

Report No.: T210413W02-RP4

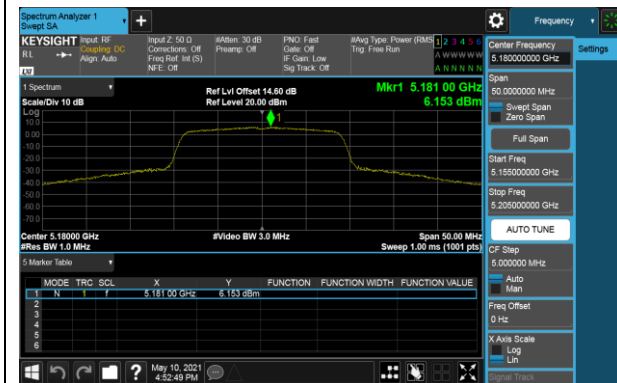
Test Data



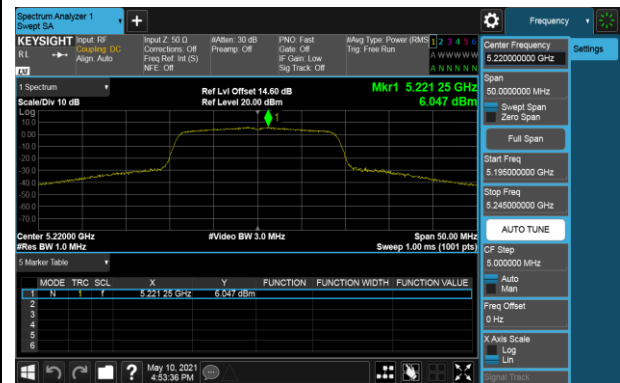
Report No.: T210413W02-RP4

UNII-1 IEEE 802.11n HT20 mode- chain 0

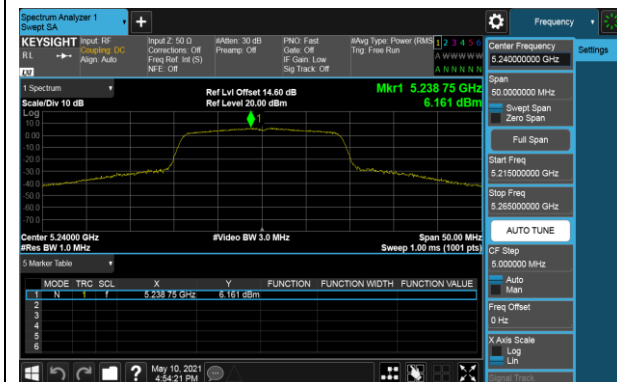
Low CH



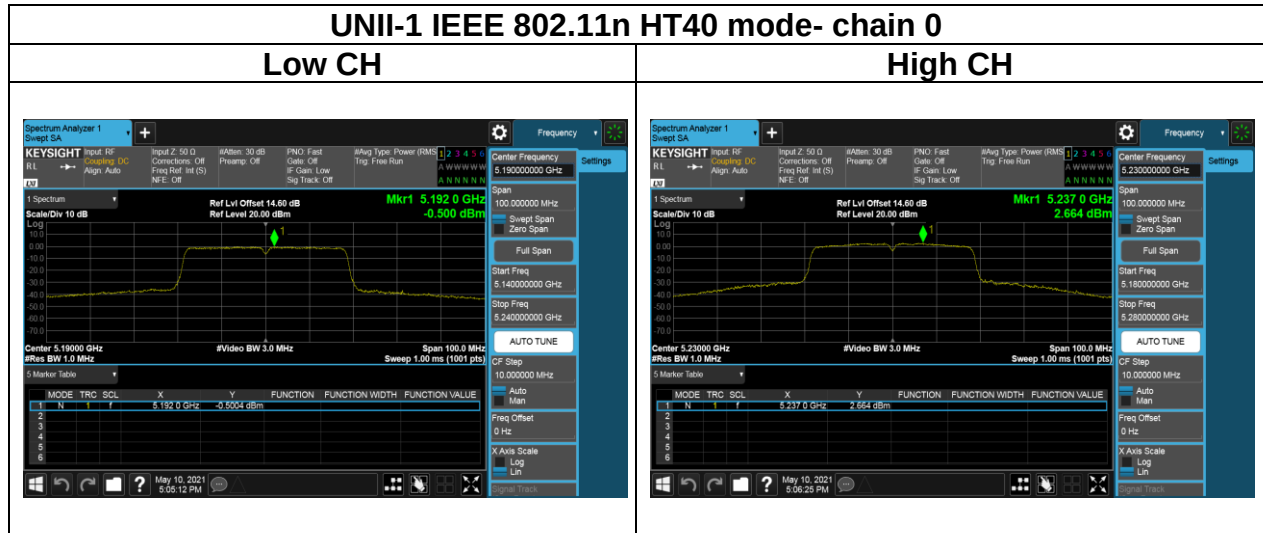
Mid CH



High CH

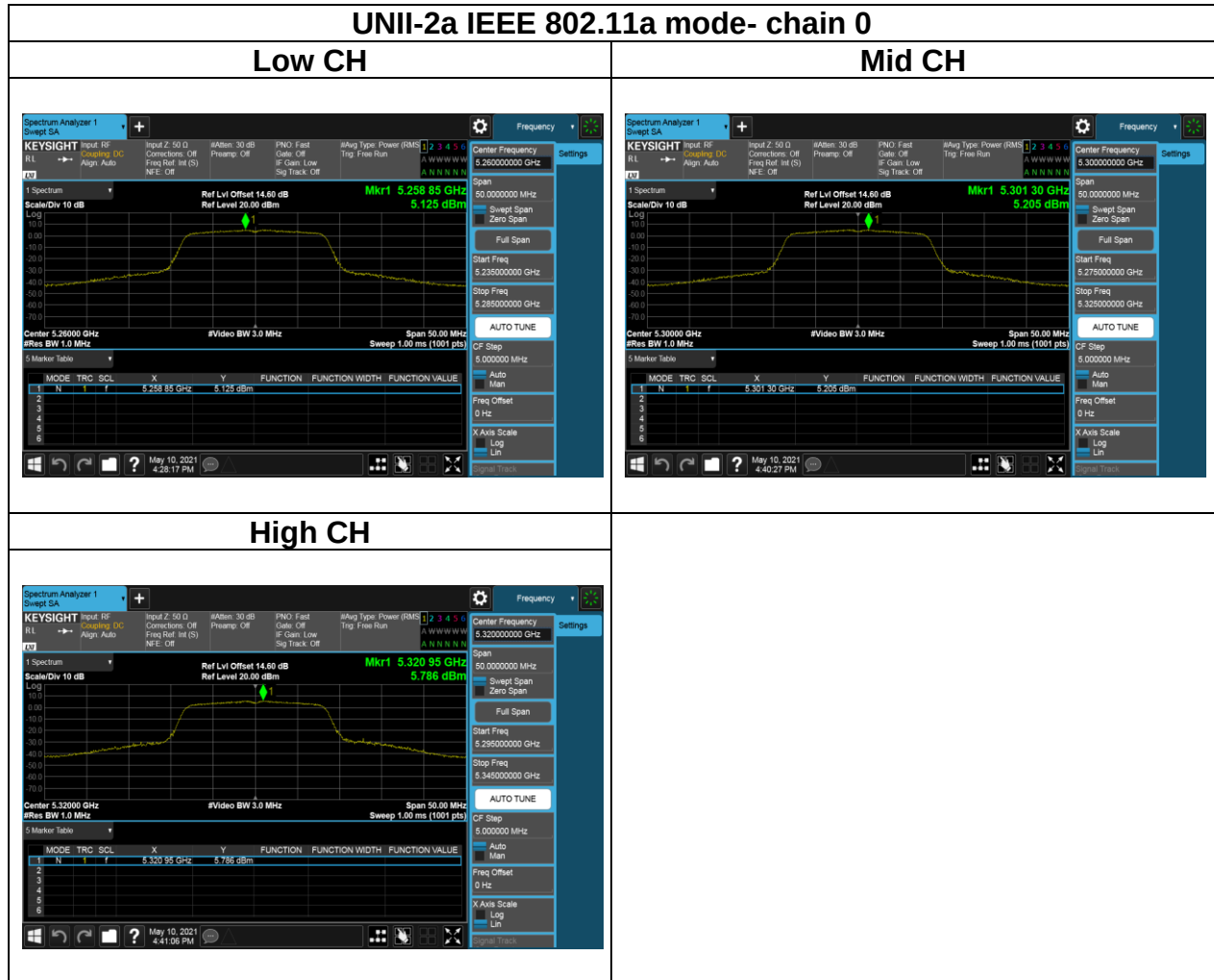


Report No.: T210413W02-RP4



Report No.: T210413W02-RP4

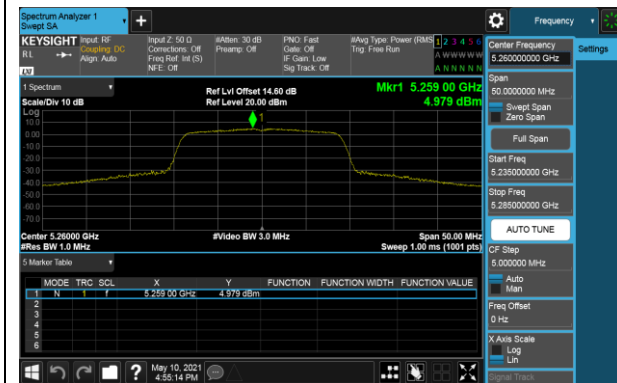
Test Data



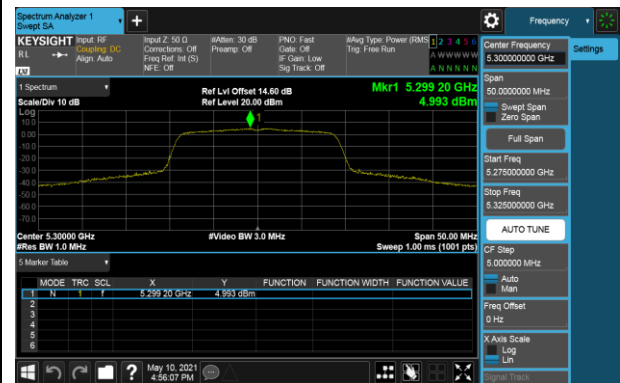
Report No.: T210413W02-RP4

UNII-2a IEEE 802.11n HT20 mode- chain 0

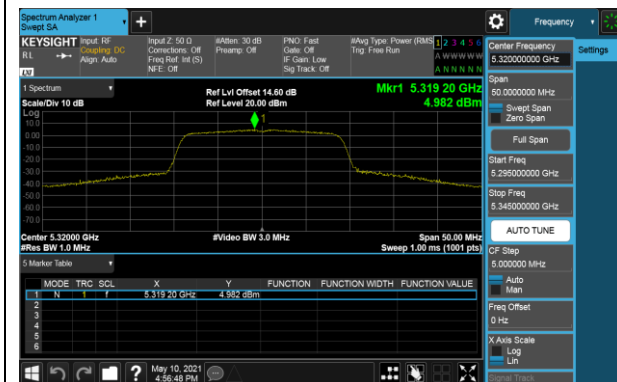
Low CH



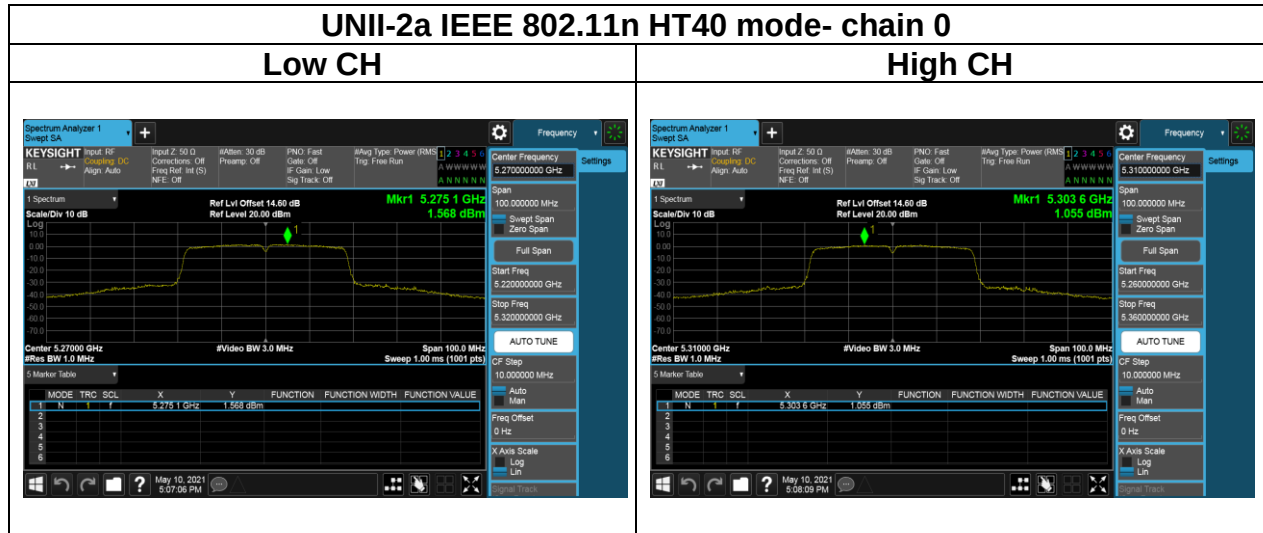
Mid CH



High CH



Report No.: T210413W02-RP4



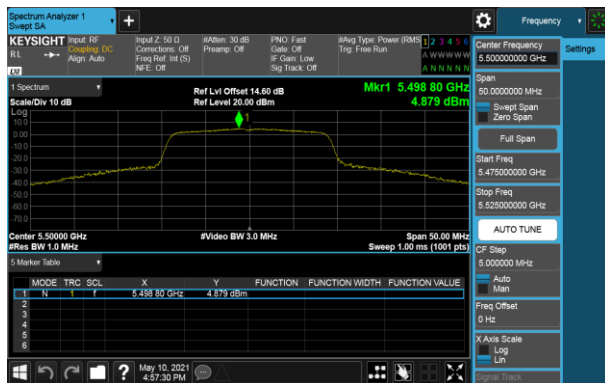
Test Data



Report No.: T210413W02-RP4

UNII-2c IEEE 802.11n HT20 mode- chain 0

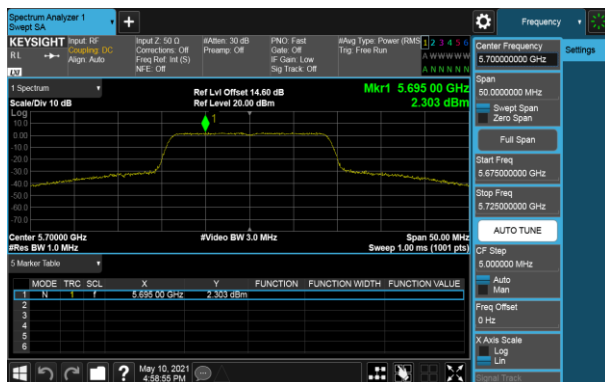
Low CH



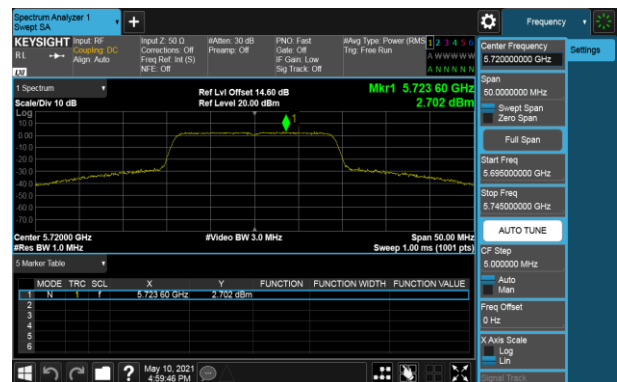
Mid CH



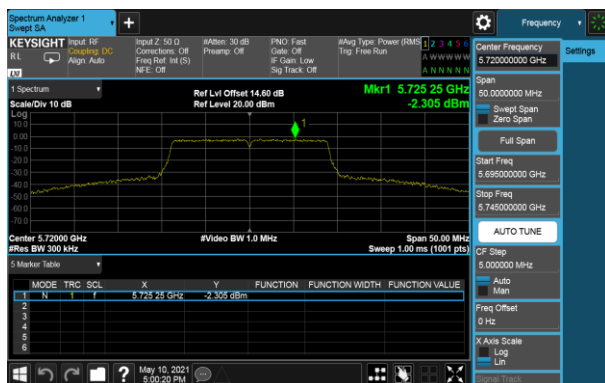
High CH



Cross CH-UNII 2c



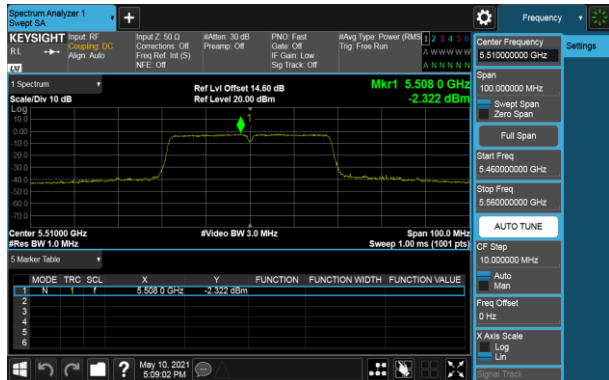
Cross CH-UNII 3



Report No.: T210413W02-RP4

UNII-2c IEEE 802.11n HT40 mode- chain 0

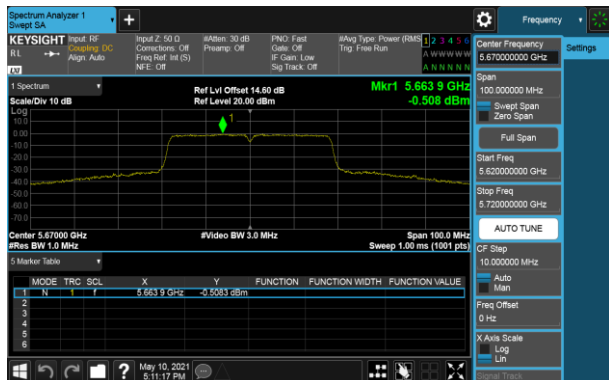
Low CH



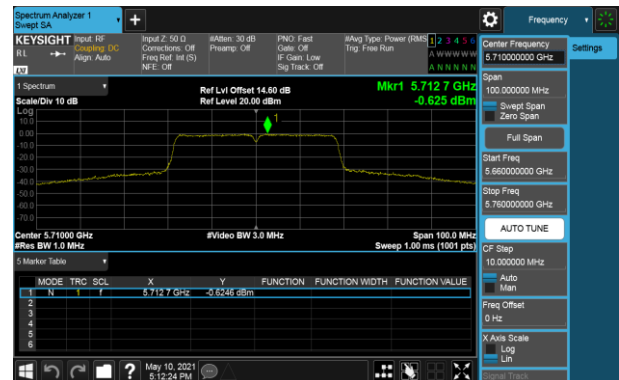
Mid CH



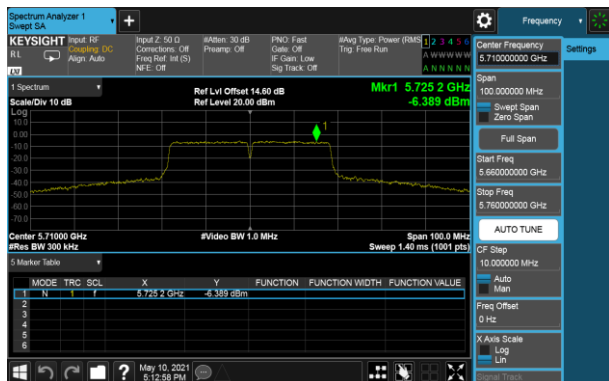
High CH



Cross CH-UNII 2c



Cross CH-UNII 3

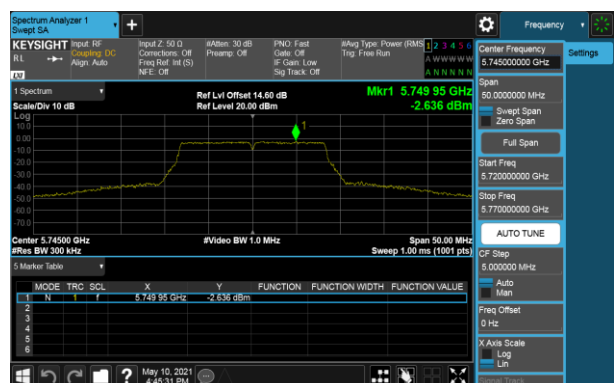


Report No.: T210413W02-RP4

Test Data

UNII-3 IEEE 802.11a mode- chain 0

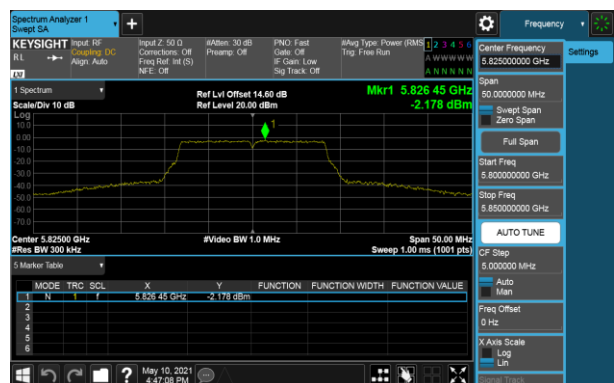
Low CH



Mid CH

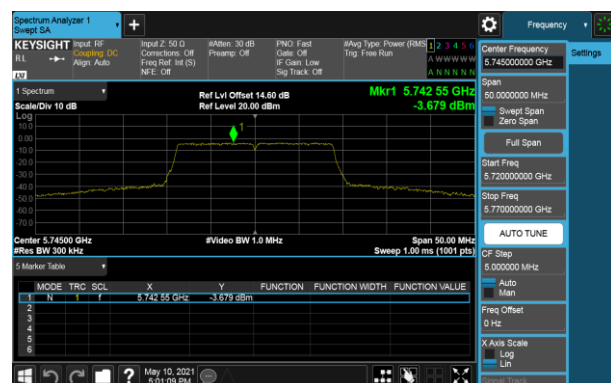


High CH

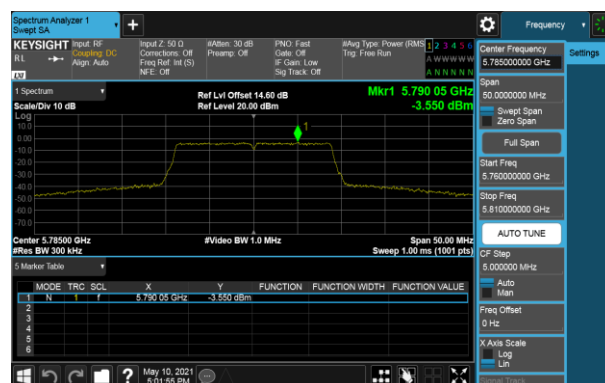


UNII-3 IEEE 802.11n HT20 mode- chain 0

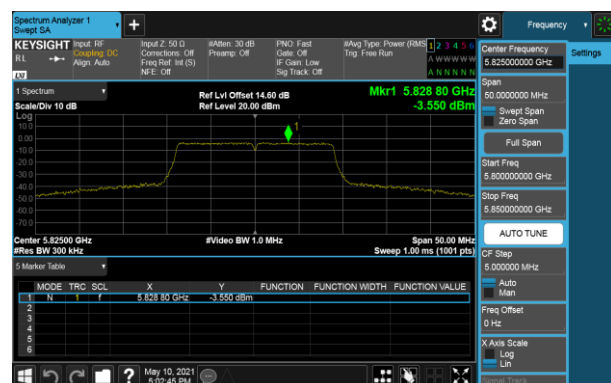
Low CH



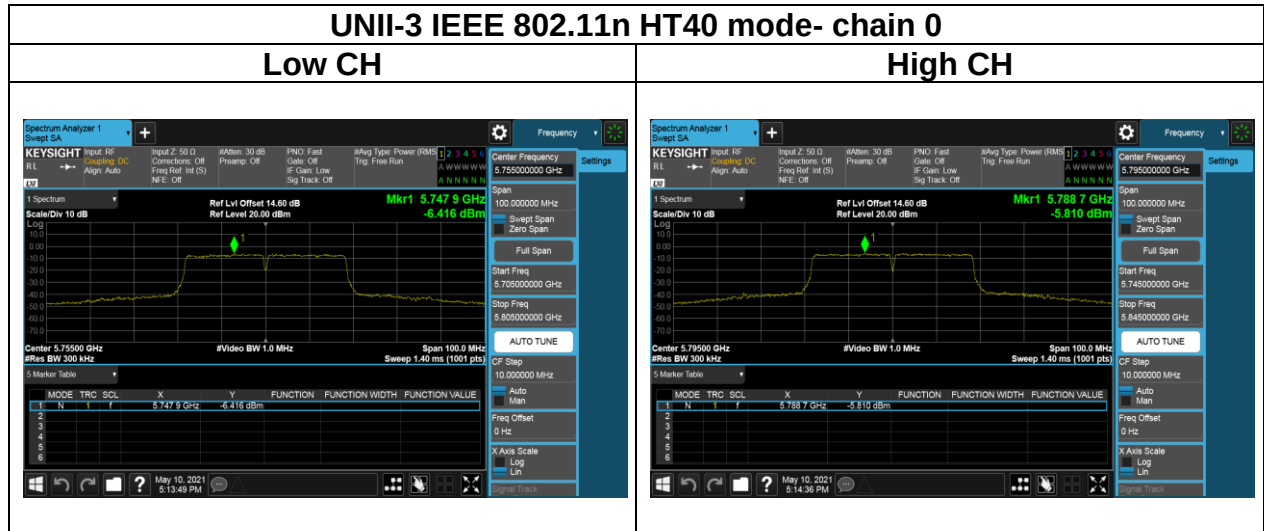
Mid CH



High CH



Report No.: T210413W02-RP4



4.5 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

According to §15.407, §15.209 and §15.205,
According to RSS-247 section 6.2.1.2 and section 6.2.4.2

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz ^(Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) ($\mu\text{A/m}$)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector..

UNII-1 :

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-2a and 2c :

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices' unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled "for indoor use only." Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

UNII-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.

For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz

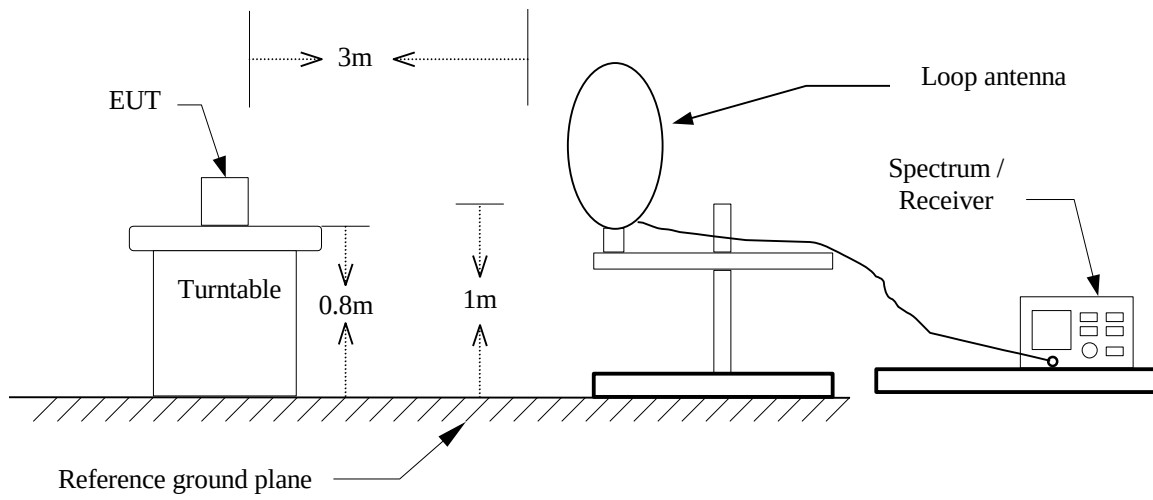
4.5.2 Test Procedure

Test method Refer as KDB 789033 D02.

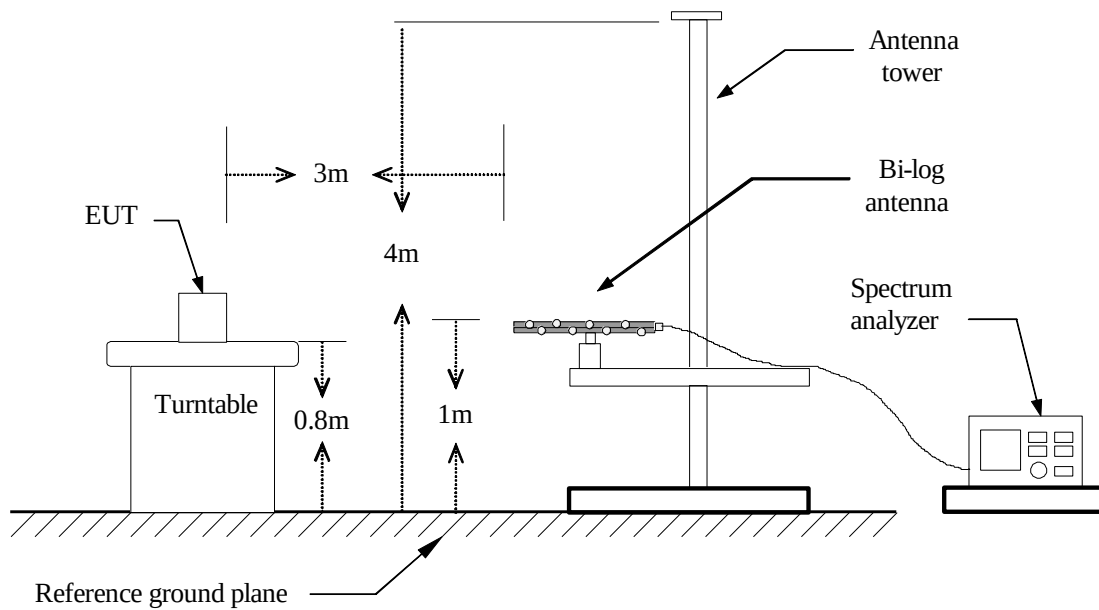
1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.
4. No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)
5. The SA setting following :
 - (1) Below 1G : RBW = 100kHz, VBW $\geq 3 \times$ RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2) Above 1G :
 - (2.1) For Peak measurement : RBW = 1MHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.
 - (2.2) For Average measurement : RBW = 1MHz, VBW
 - If Duty Cycle $\geq 98\%$, VBW=10Hz.
 - If Duty Cycle $< 98\%$, VBW=1/T.

4.5.3 Test Setup

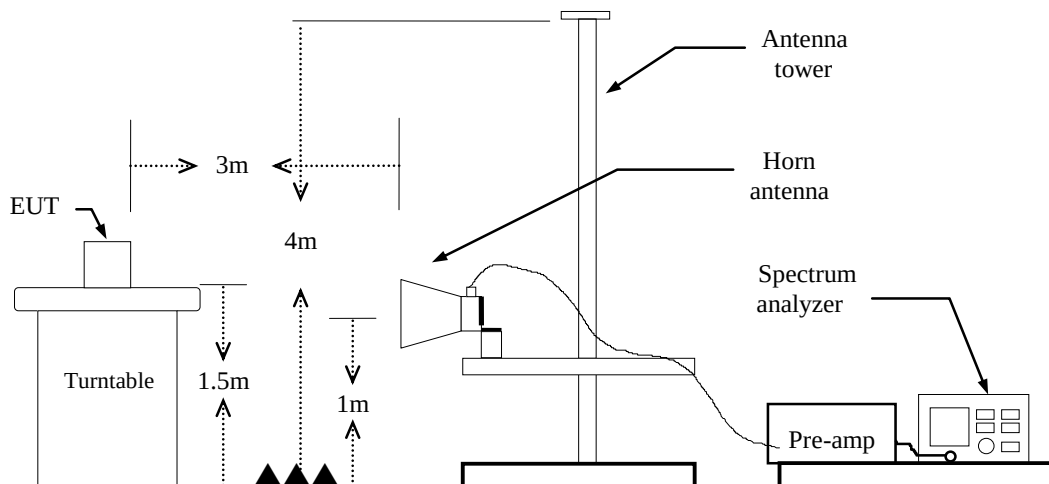
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz

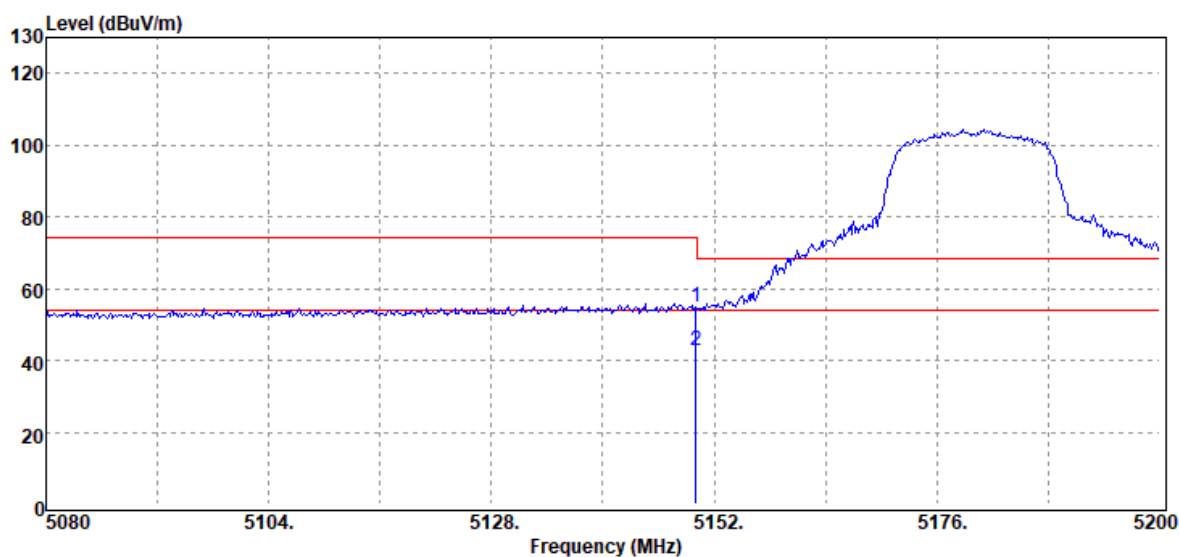


4.5.4 Test Result

Band Edge Test Data

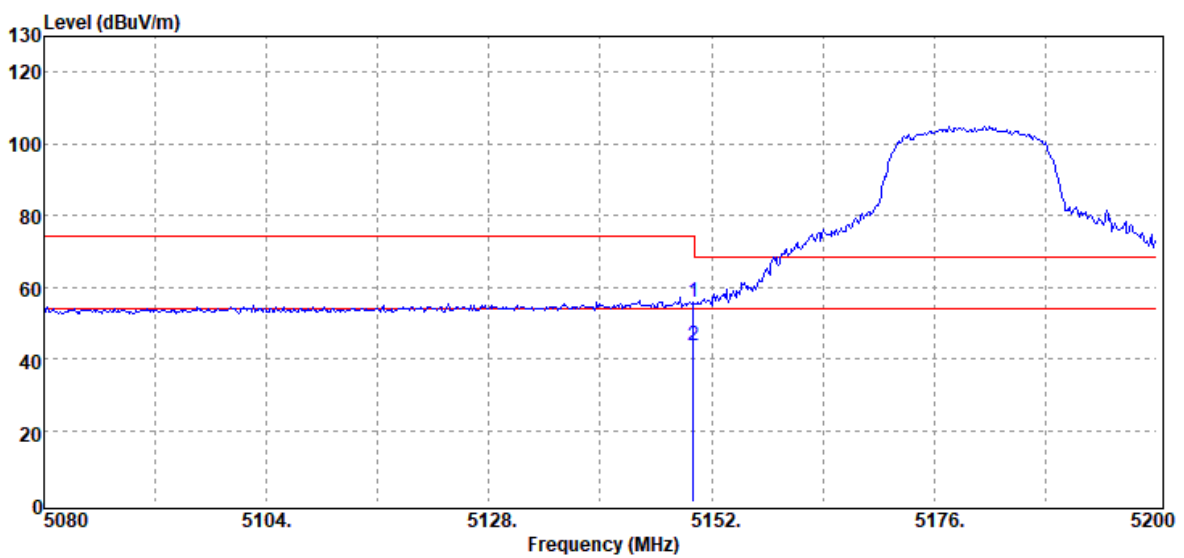
Test Data for UNII-1

Test Mode	IEEE 802.11a / 5180MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



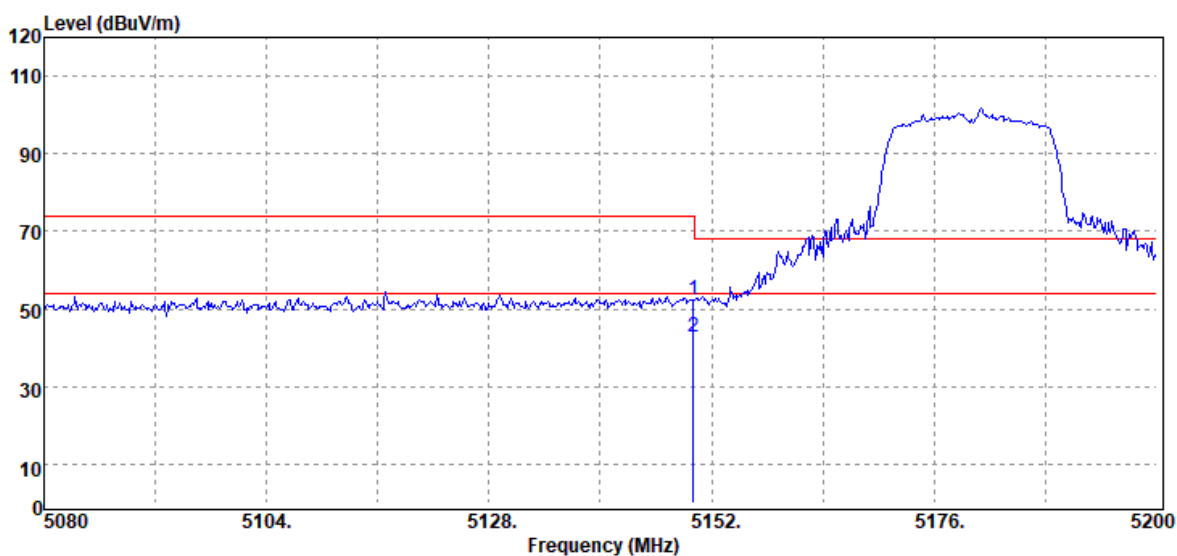
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Peak	47.08	7.62	54.70	74.00	-19.30
5150.00	Average	35.15	7.62	42.77	54.00	-11.23

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



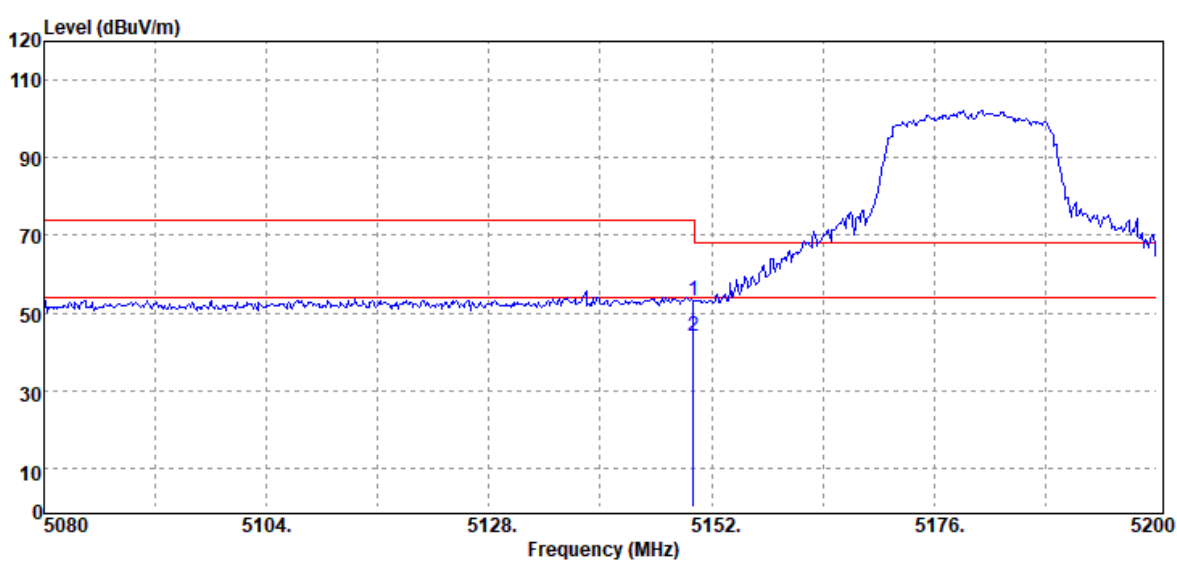
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Peak	47.95	7.62	55.57	74.00	-18.43
5150.00	Average	35.86	7.62	43.48	54.00	-10.52

Test Mode	IEEE 802.11n 20 MHz / 5180MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



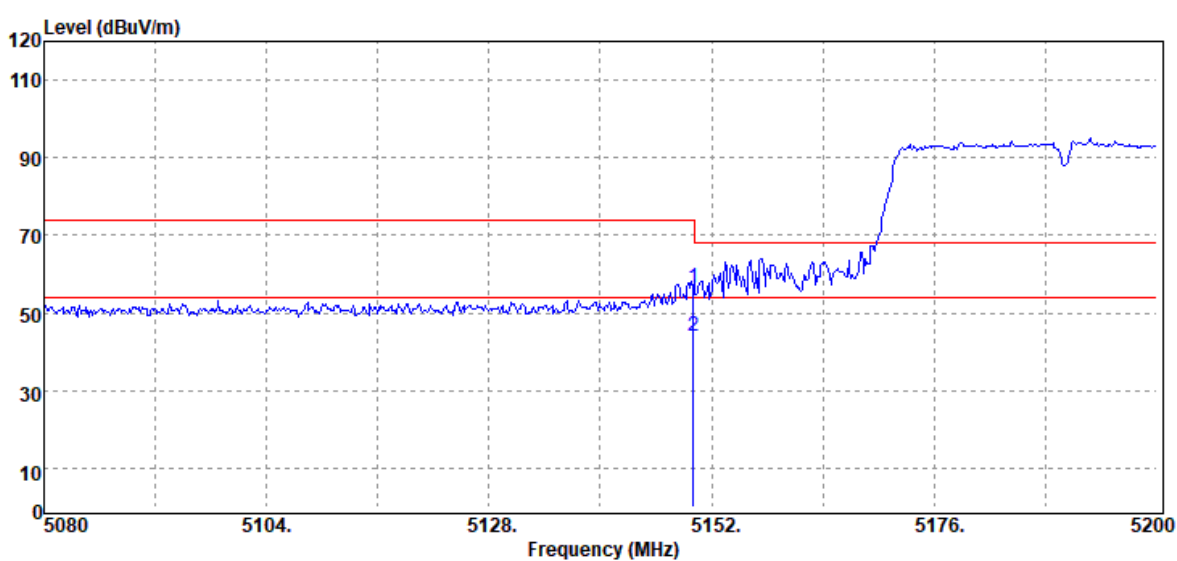
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5150.00	Peak	44.88	7.62	52.50	74.00	-21.50
5150.00	Average	35.29	7.62	42.91	54.00	-11.09

Test Mode	IEEE 802.11n 20 MHz / 5180MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



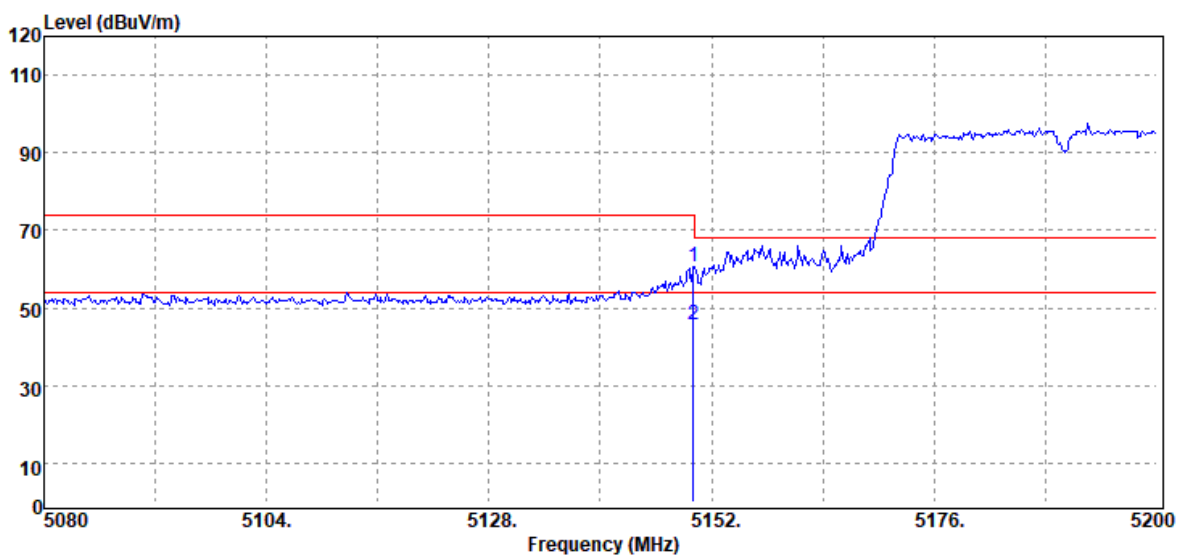
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Peak	45.48	7.62	53.10	74.00	-20.90
5150.00	Average	36.54	7.62	44.16	54.00	-9.84

Test Mode	IEEE 802.11n 40 MHz / 5190MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Peak	49.01	7.62	56.63	74.00	-17.37
5150.00	Average	36.19	7.62	43.81	54.00	-10.19

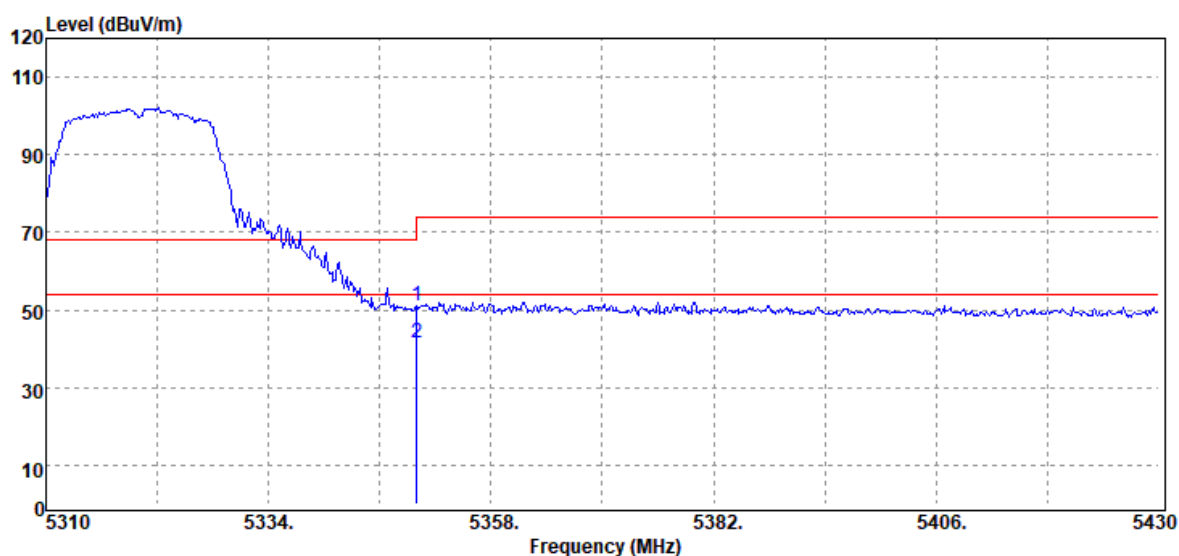
Test Mode	IEEE 802.11n 40 MHz / 5190MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5150.00	Peak	52.98	7.62	60.60	74.00	-13.40
5150.00	Average	38.10	7.62	45.72	54.00	-8.28

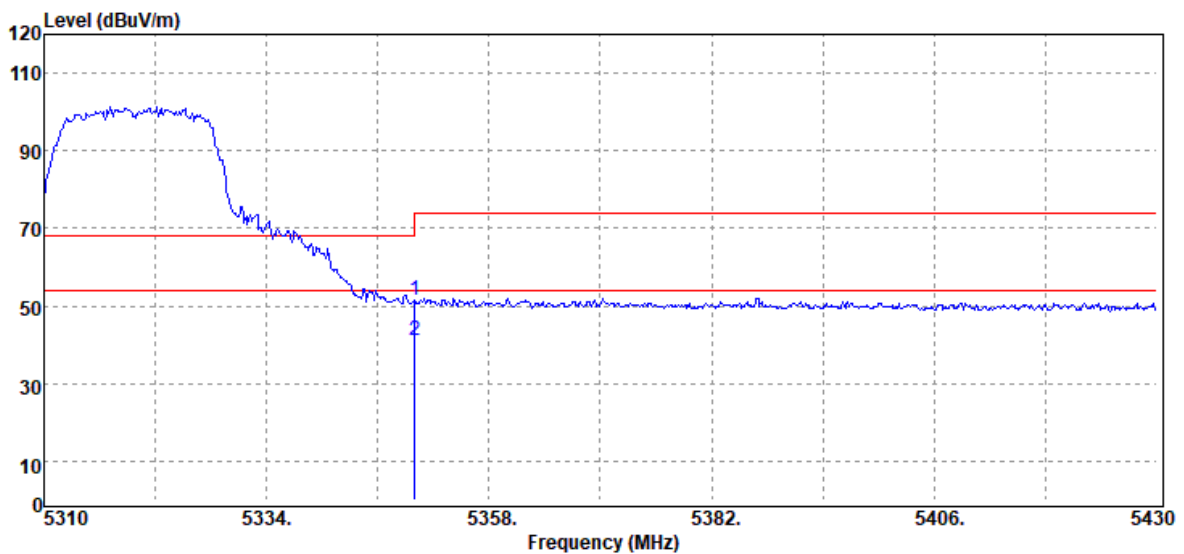
Test Data for UNII-2a

Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



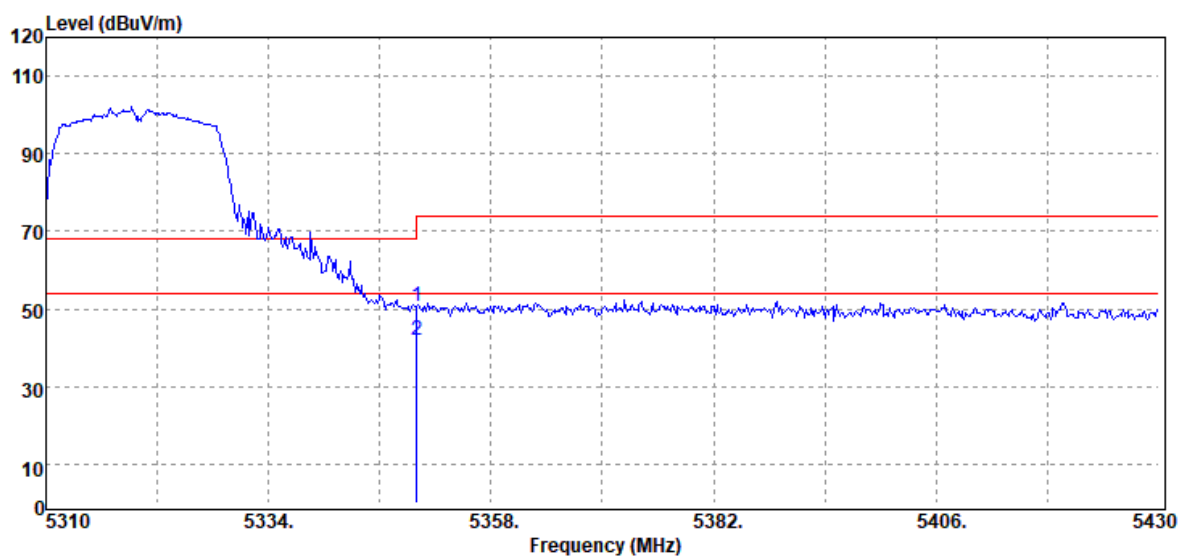
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	43.27	7.85	51.12	74.00	-22.88
5350.00	Average	33.78	7.85	41.63	54.00	-12.37

Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



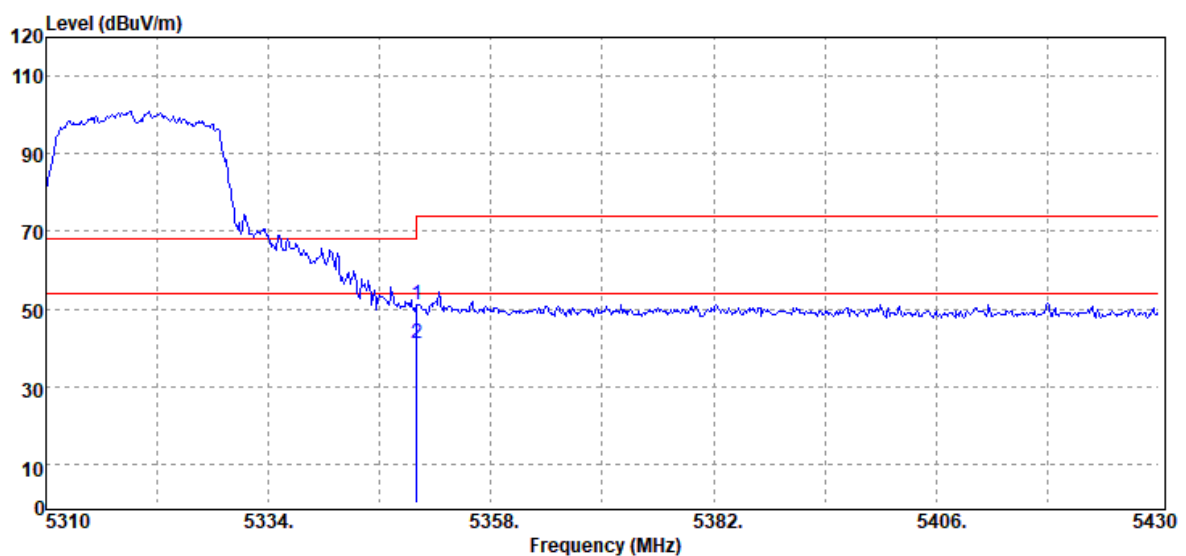
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Peak	43.54	7.85	51.39	74.00	-22.61
5350.00	Average	33.20	7.85	41.05	54.00	-12.95

Test Mode	IEEE 802.11n 20 MHz / 5320MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



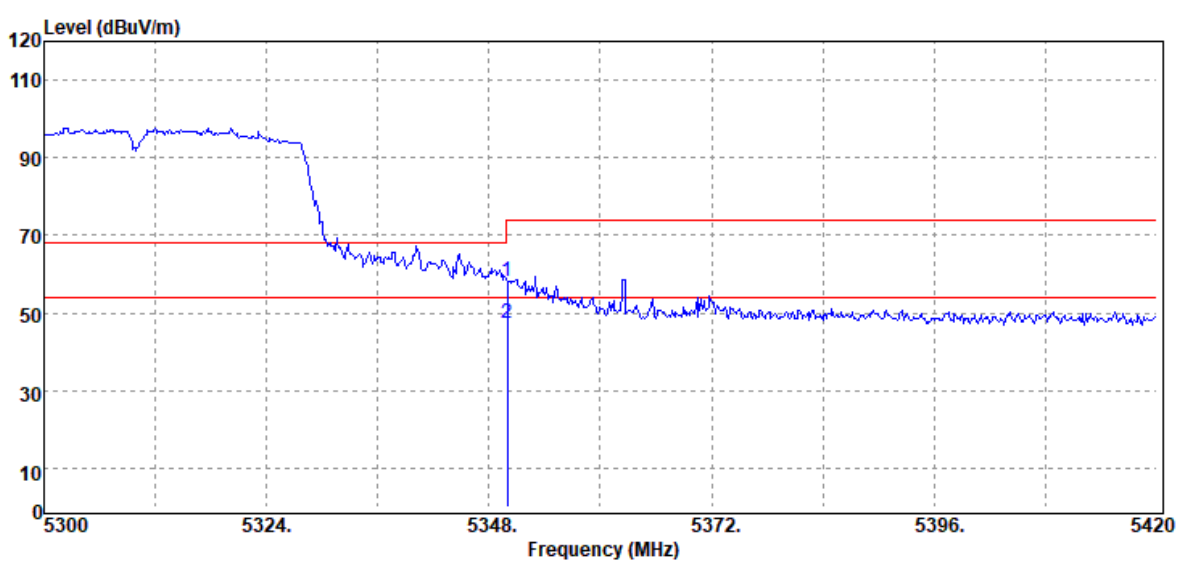
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Peak	43.00	7.85	50.85	74.00	-23.15
5350.00	Average	33.93	7.85	41.78	54.00	-12.22

Test Mode	IEEE 802.11n 20 MHz / 5320MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



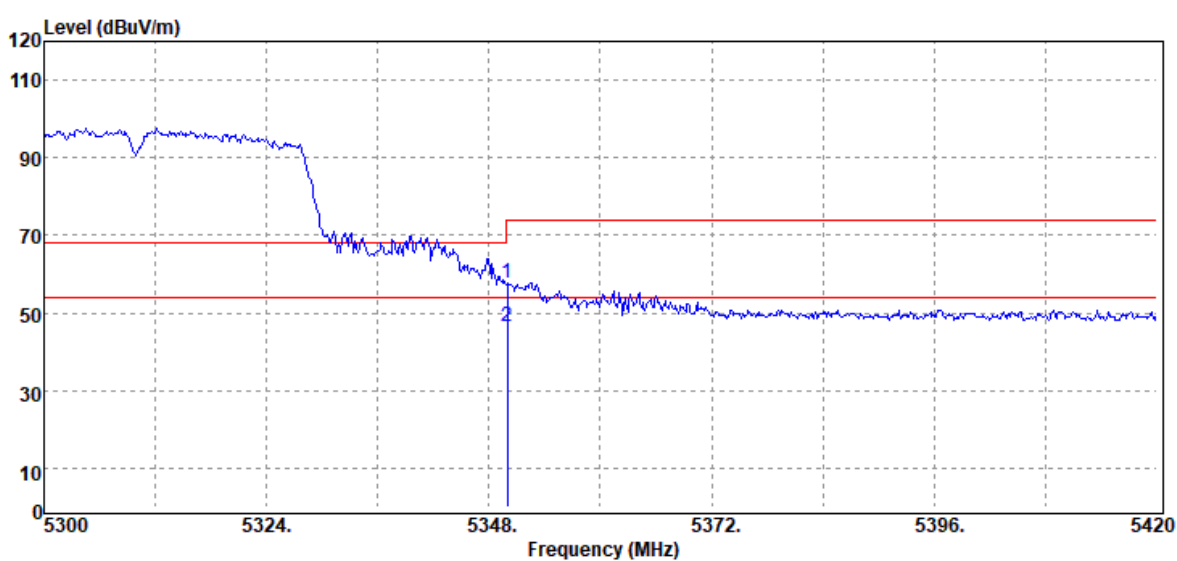
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5350.00	Peak	43.05	7.85	50.90	74.00	-23.10
5350.00	Average	33.21	7.85	41.06	54.00	-12.94

Test Mode	IEEE 802.11n 40 MHz / 5310MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	50.18	7.85	58.03	74.00	-15.97
5350.00	Average	39.45	7.85	47.30	54.00	-6.70

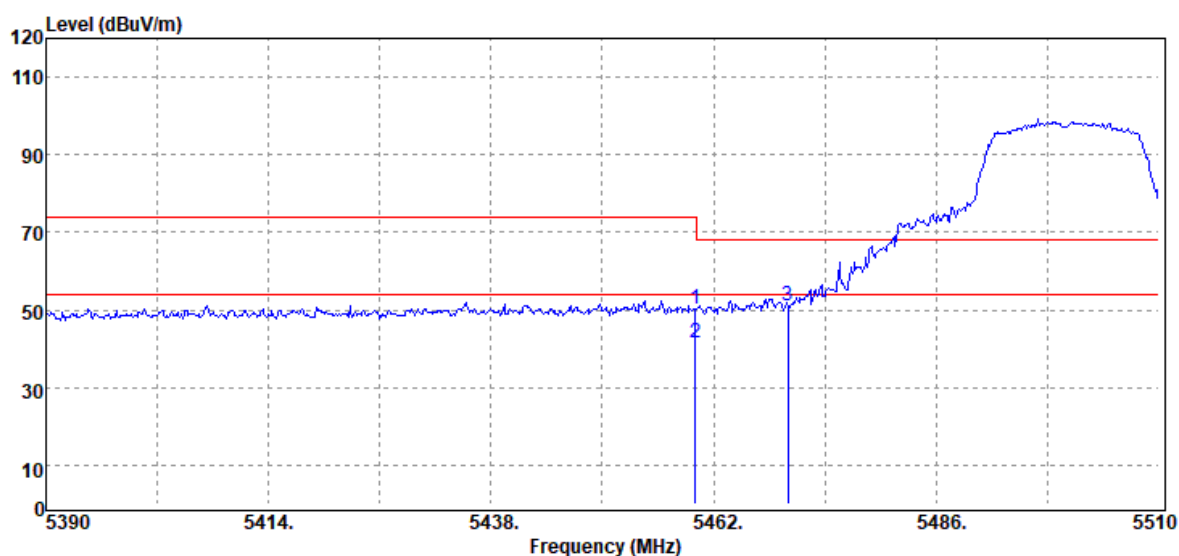
Test Mode	IEEE 802.11n 40 MHz / 5310MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5350.00	Peak	50.06	7.85	57.91	74.00	-16.09
5350.00	Average	38.67	7.85	46.52	54.00	-7.48

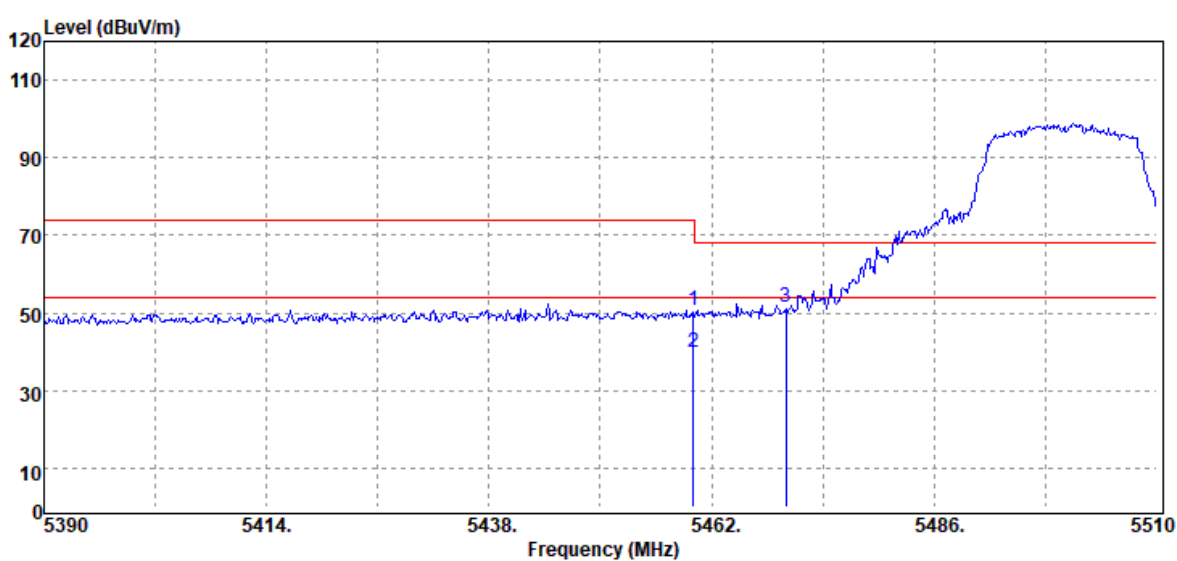
Test Data for UNII-2c

Test Mode	IEEE 802.11a / 5500MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



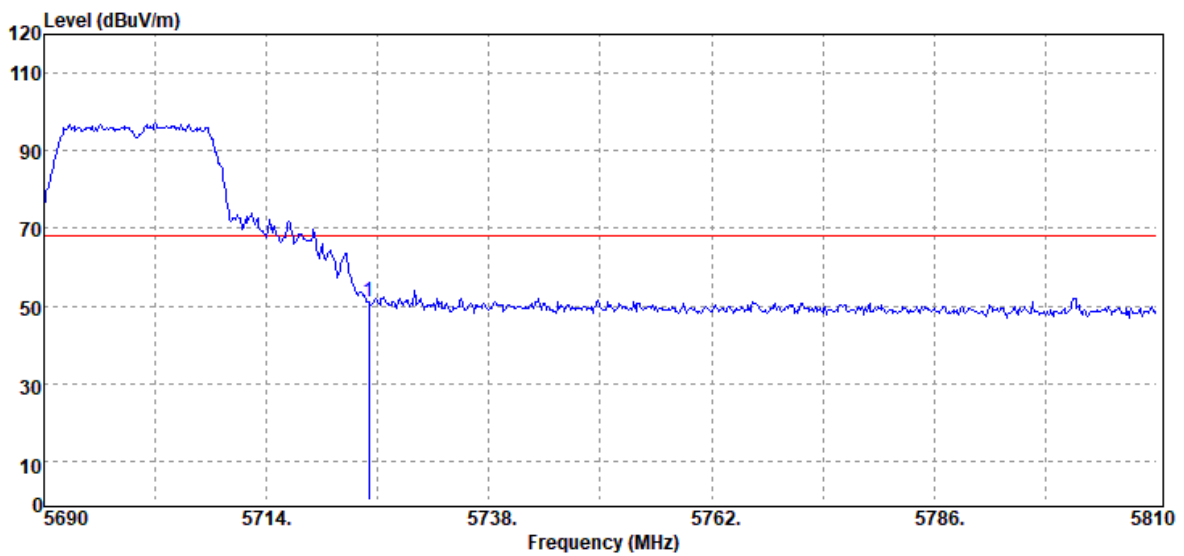
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	42.34	8.08	50.42	74.00	-23.58
5460.00	Average	33.60	8.08	41.68	54.00	-12.32
5470.00	Peak	42.82	8.12	50.94	68.20	-17.26

Test Mode	IEEE 802.11a / 5500MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



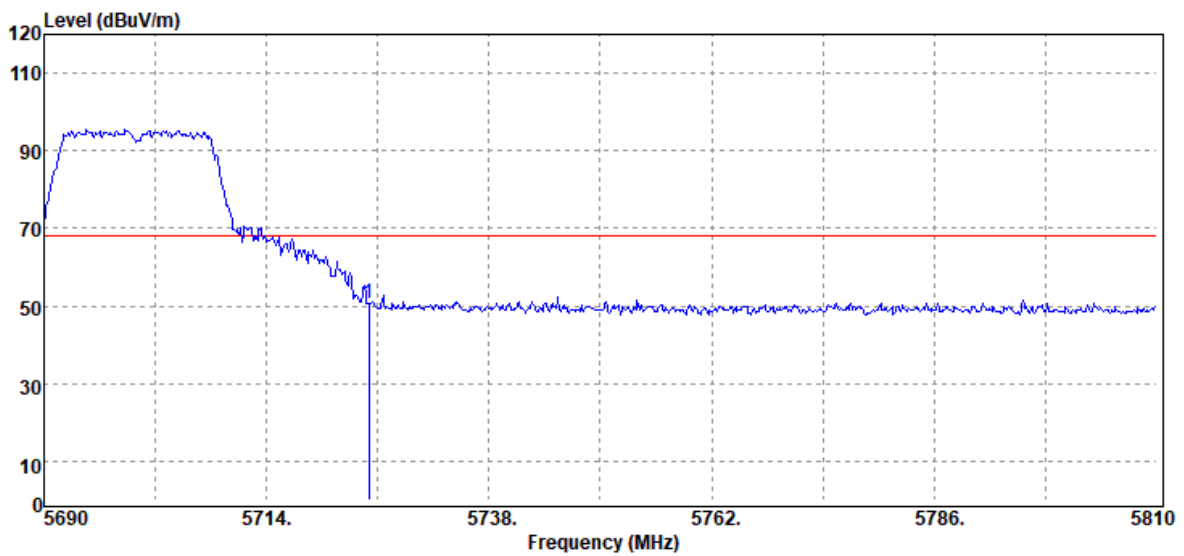
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Peak	42.43	8.08	50.51	74.00	-23.49
5460.00	Average	31.74	8.08	39.82	54.00	-14.18
5470.00	Peak	43.35	8.12	51.47	68.20	-16.73

Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



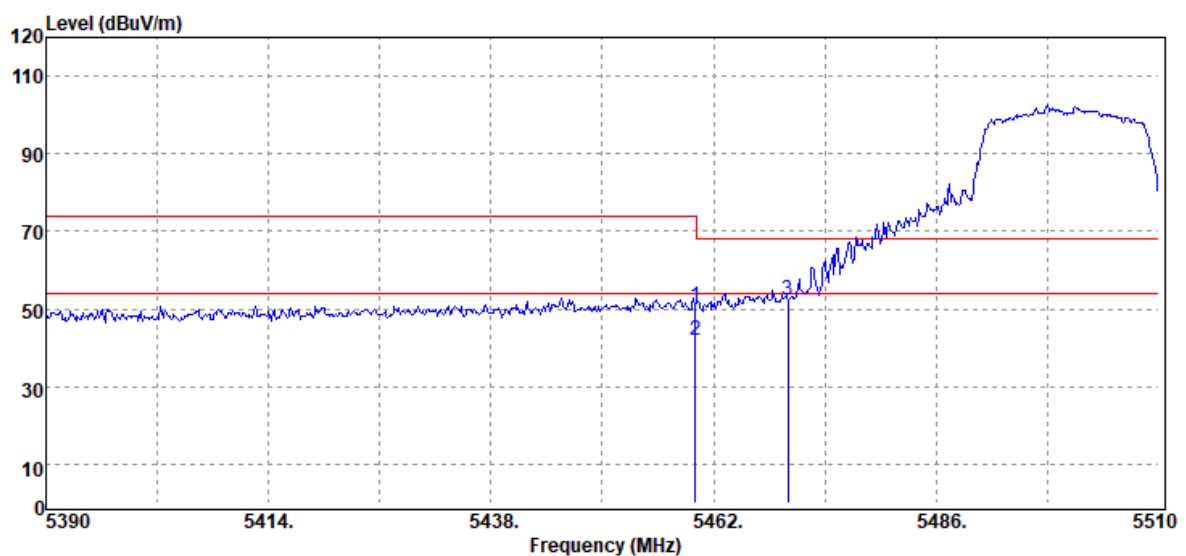
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	41.88	9.29	51.17	68.20	-17.03

Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



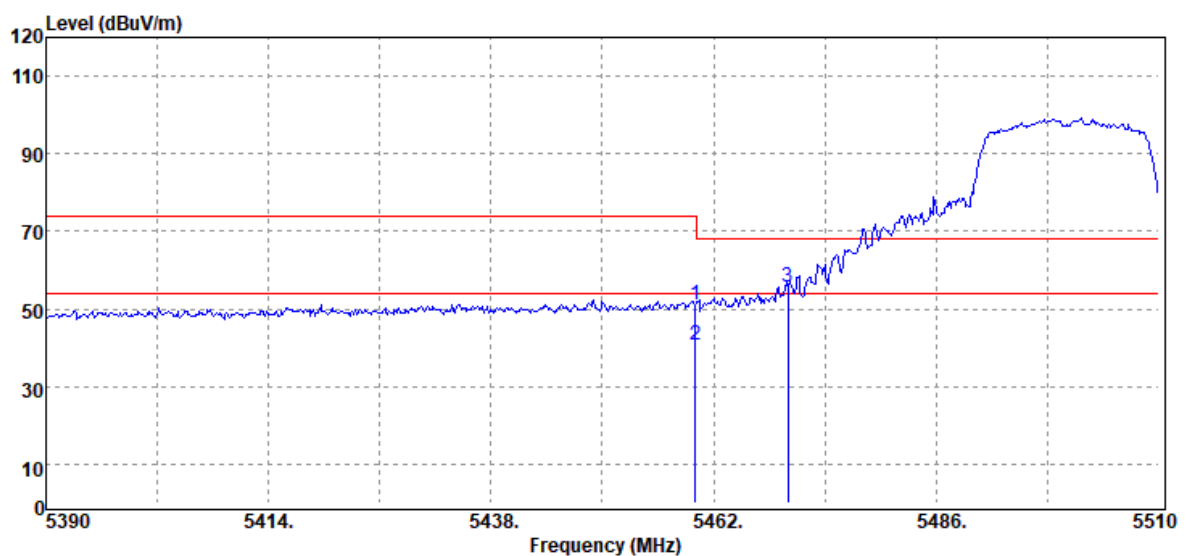
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	41.43	9.29	50.72	68.20	-17.48

Test Mode	IEEE 802.11n 20 MHz / 5500MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



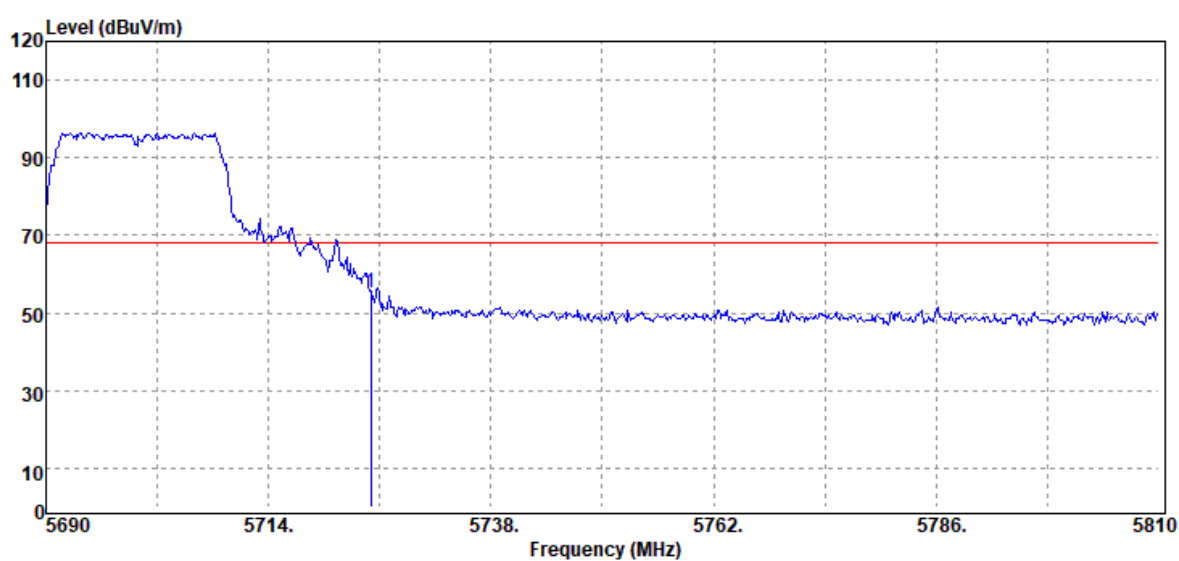
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5460.00	Peak	42.62	8.08	50.70	74.00	-23.30
5460.00	Average	33.80	8.08	41.88	54.00	-12.12
5470.00	Peak	44.40	8.12	52.52	68.20	-15.68

Test Mode	IEEE 802.11n 20 MHz / 5500MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



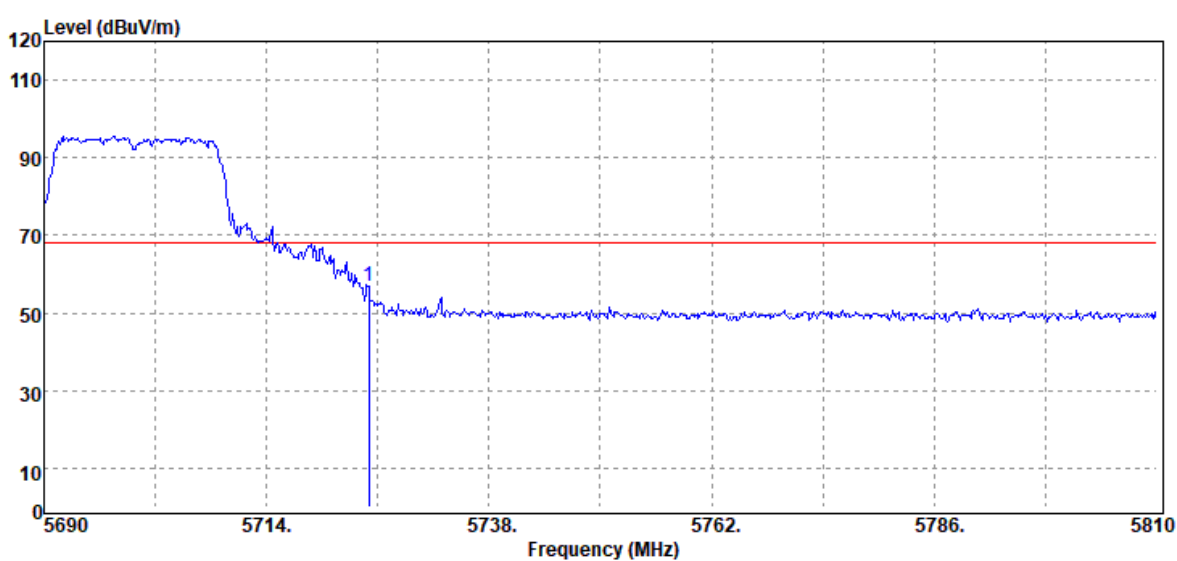
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
5460.00	Peak	43.03	8.08	51.11	74.00	-22.89
5460.00	Average	32.71	8.08	40.79	54.00	-13.21
5470.00	Peak	47.32	8.12	55.44	68.20	-12.76

Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temperature	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



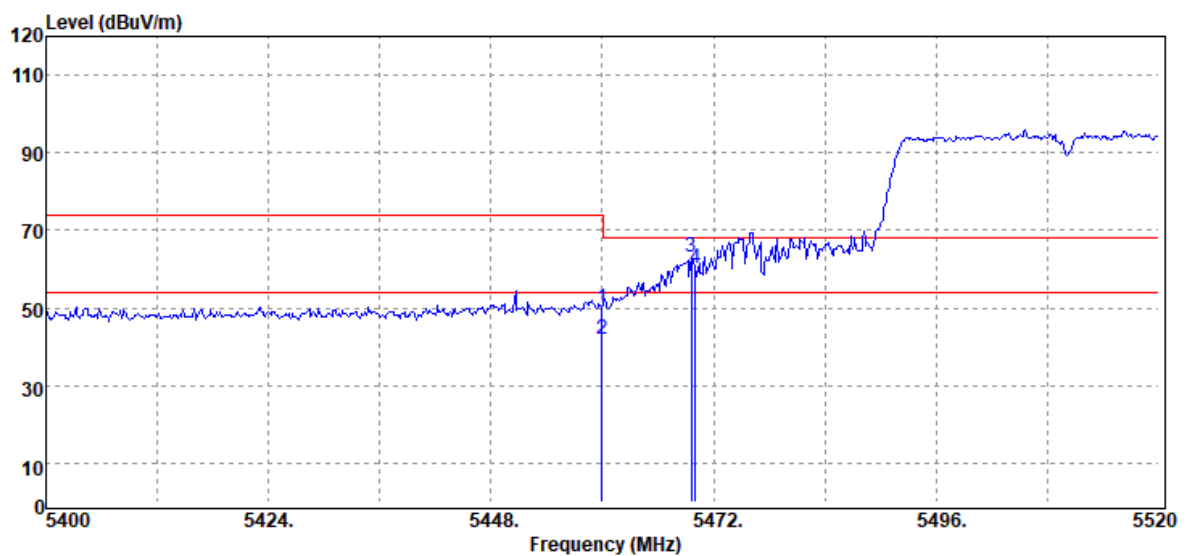
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	45.84	9.29	55.13	68.20	-13.07

Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temperature	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



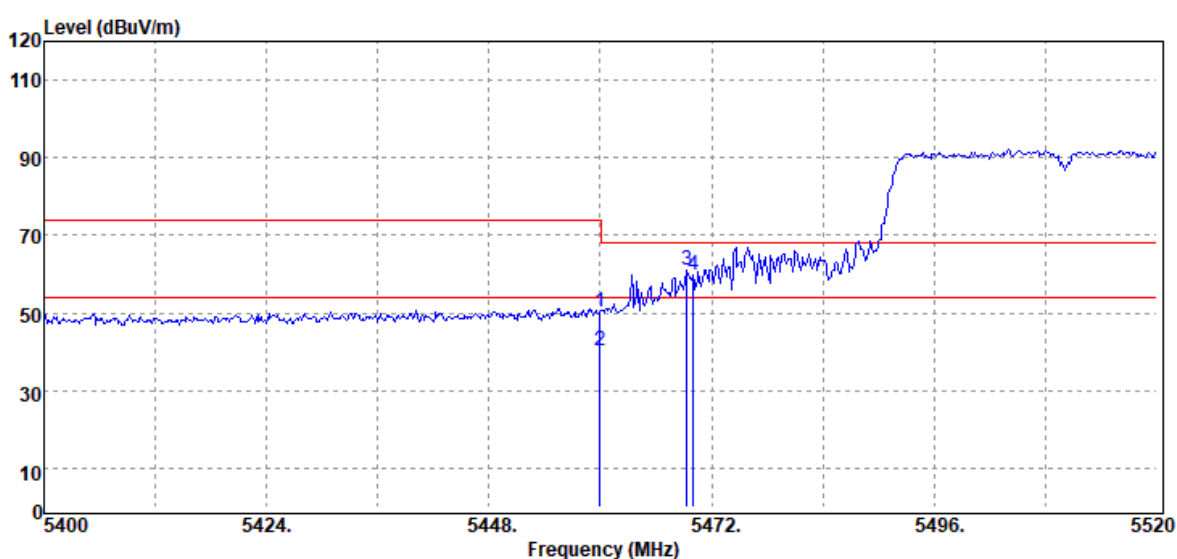
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	47.68	9.29	56.97	68.20	-11.23

Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak and Average		



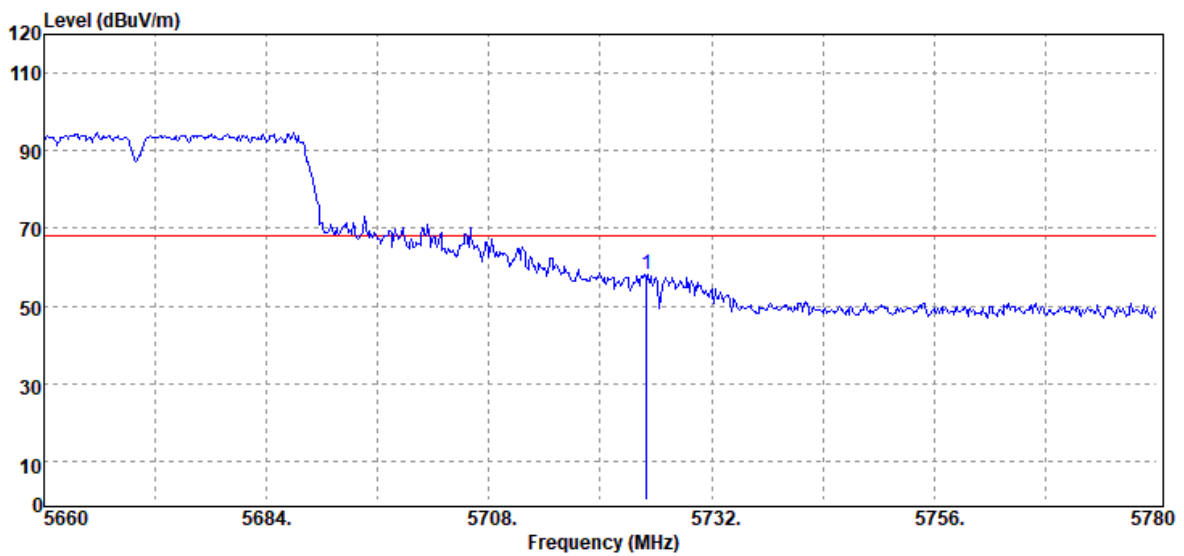
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	41.55	8.08	49.63	74.00	-24.37
5460.00	Average	33.66	8.08	41.74	54.00	-12.26
5469.60	Peak	54.98	8.12	63.10	68.20	-5.10
5470.00	Peak	51.89	8.12	60.01	68.20	-8.19

Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak and Average		



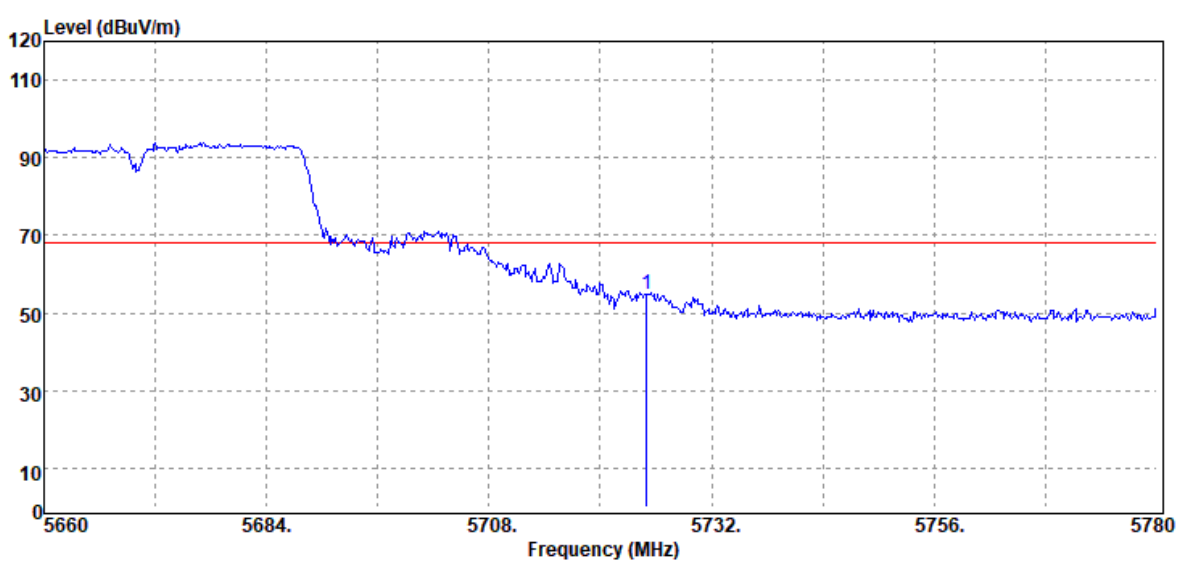
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5460.00	Peak	42.14	8.08	50.22	74.00	-23.78
5460.00	Average	32.11	8.08	40.19	54.00	-13.81
5469.36	Peak	52.91	8.12	61.03	68.20	-7.17
5470.00	Peak	51.74	8.12	59.86	68.20	-8.34

Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5725.00	Peak	48.67	9.29	57.96	68.20	-10.24

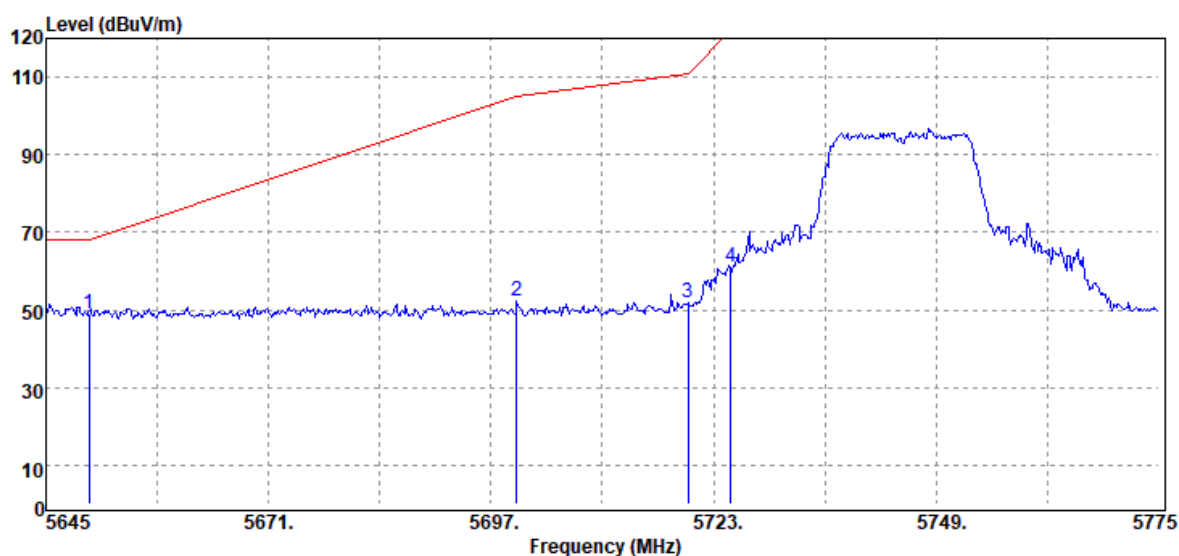
Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5725.00	Peak	45.63	9.29	54.92	68.20	-13.28

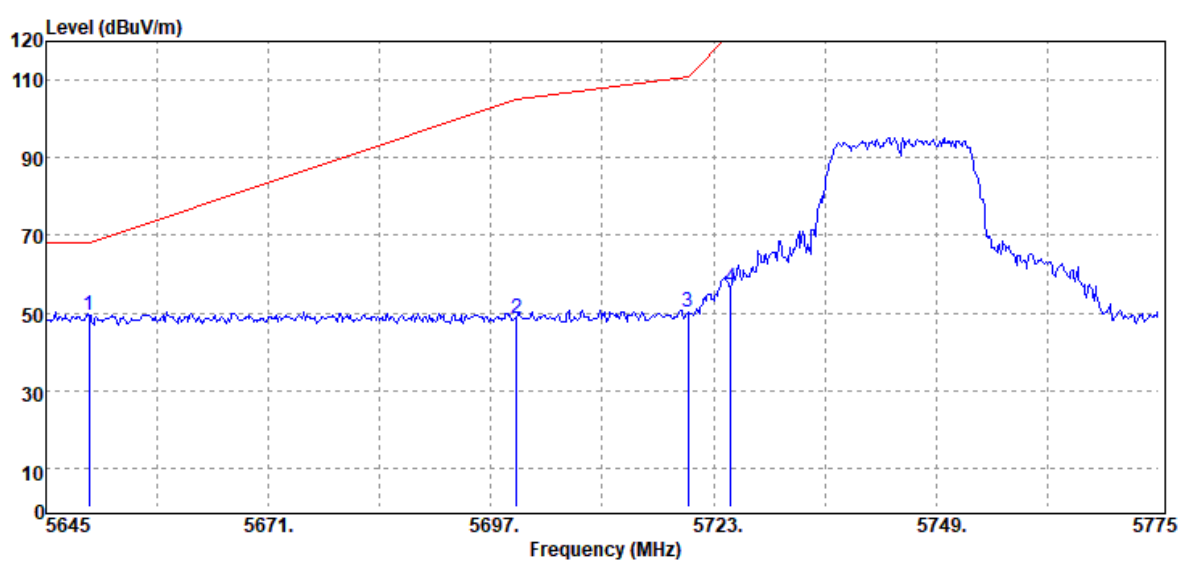
Test Data for UNII-3

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



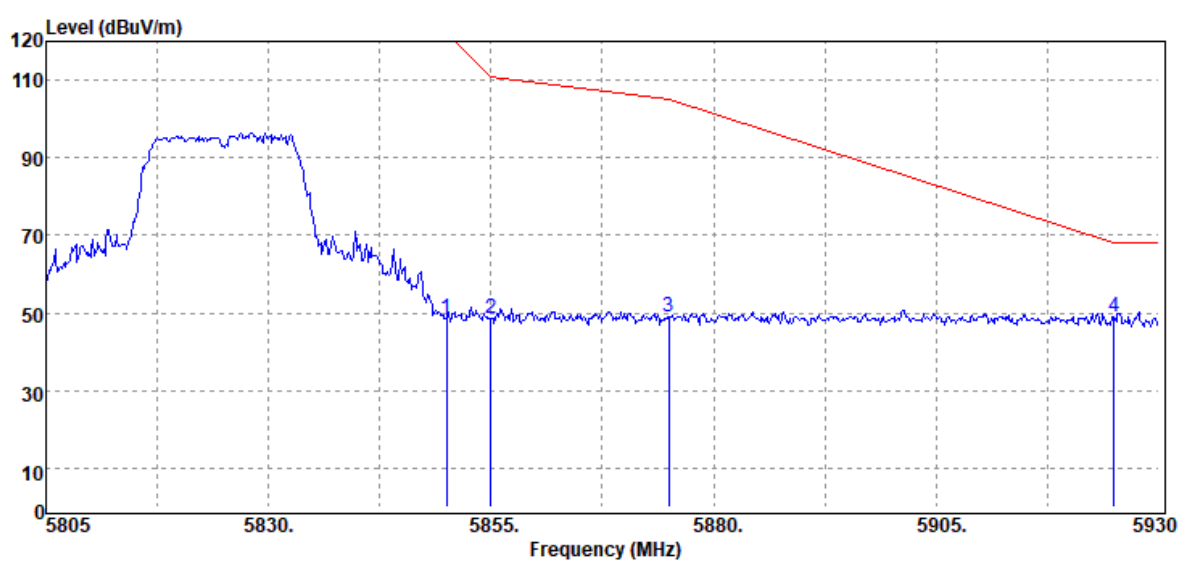
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5650.00	Peak	40.18	8.87	49.05	68.20	-19.15
5700.00	Peak	42.94	9.22	52.16	105.20	-53.04
5720.00	Peak	42.45	9.29	51.74	110.80	-59.06
5725.00	Peak	51.95	9.29	61.24	122.20	-60.96

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



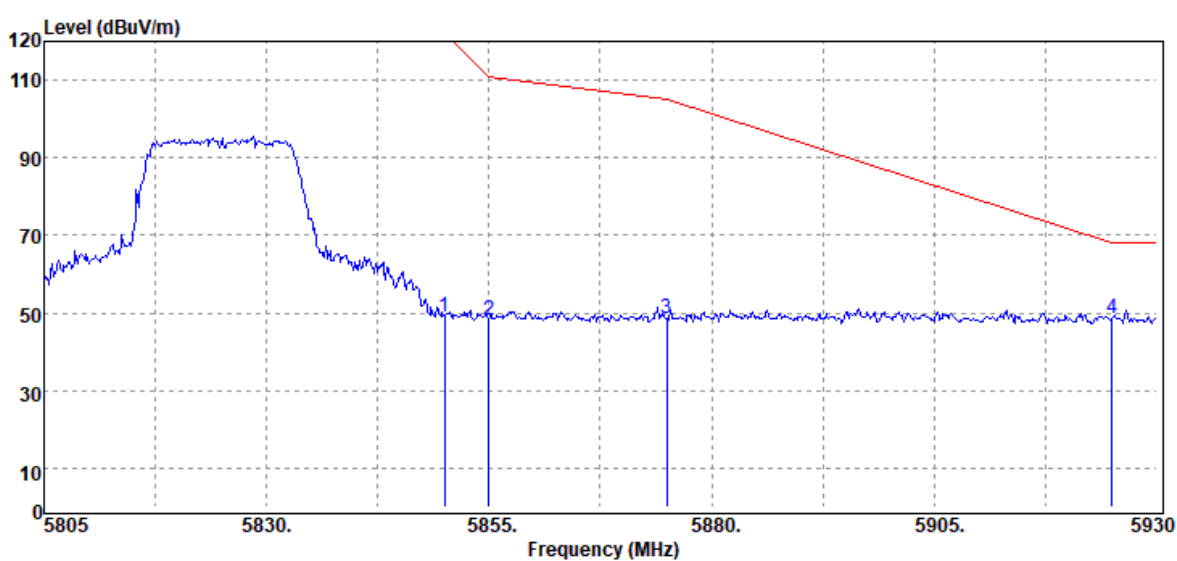
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	40.52	8.87	49.39	68.20	-18.81
5700.00	Peak	39.55	9.22	48.77	105.20	-56.43
5720.00	Peak	40.84	9.29	50.13	110.80	-60.67
5725.00	Peak	47.15	9.29	56.44	122.20	-65.76

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



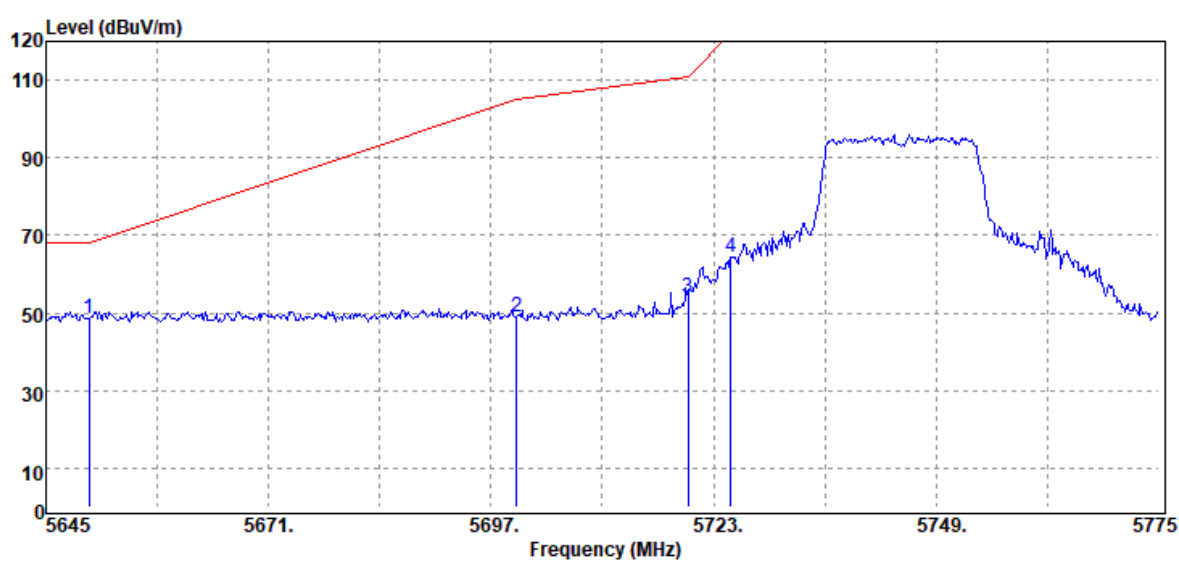
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	39.06	9.59	48.65	122.20	-73.55
5855.00	Peak	38.99	9.59	48.58	110.80	-62.22
5875.00	Peak	39.54	9.57	49.11	105.20	-56.09
5925.00	Peak	39.56	9.59	49.15	68.20	-19.05

Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



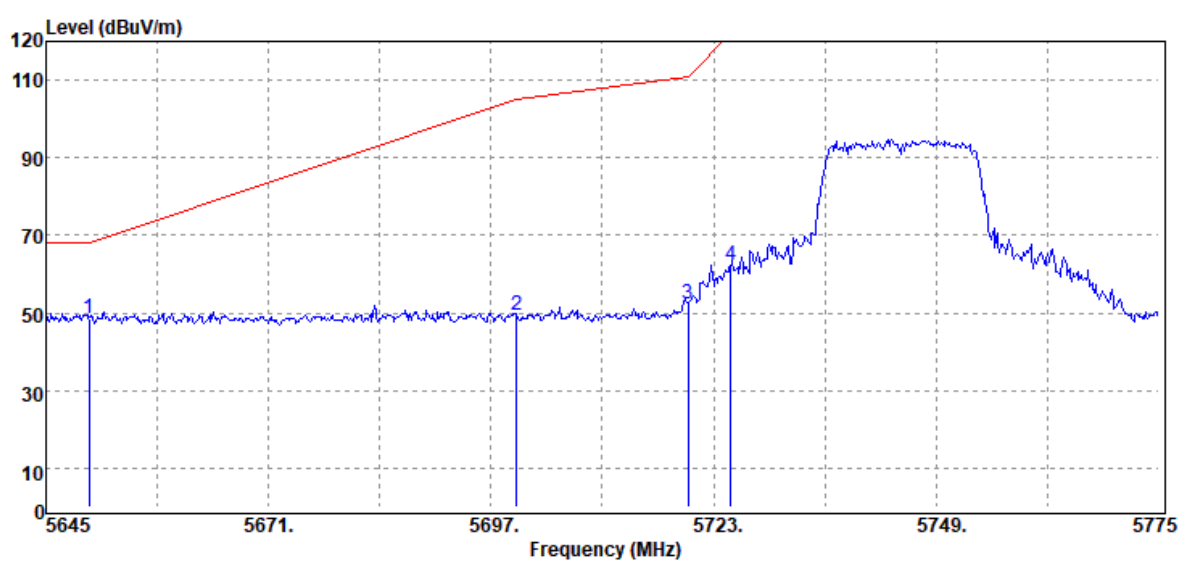
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	39.36	9.59	48.95	122.20	-73.25
5855.00	Peak	38.58	9.59	48.17	110.80	-62.63
5875.00	Peak	38.87	9.57	48.44	105.20	-56.76
5925.00	Peak	39.04	9.59	48.63	68.20	-19.57

Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



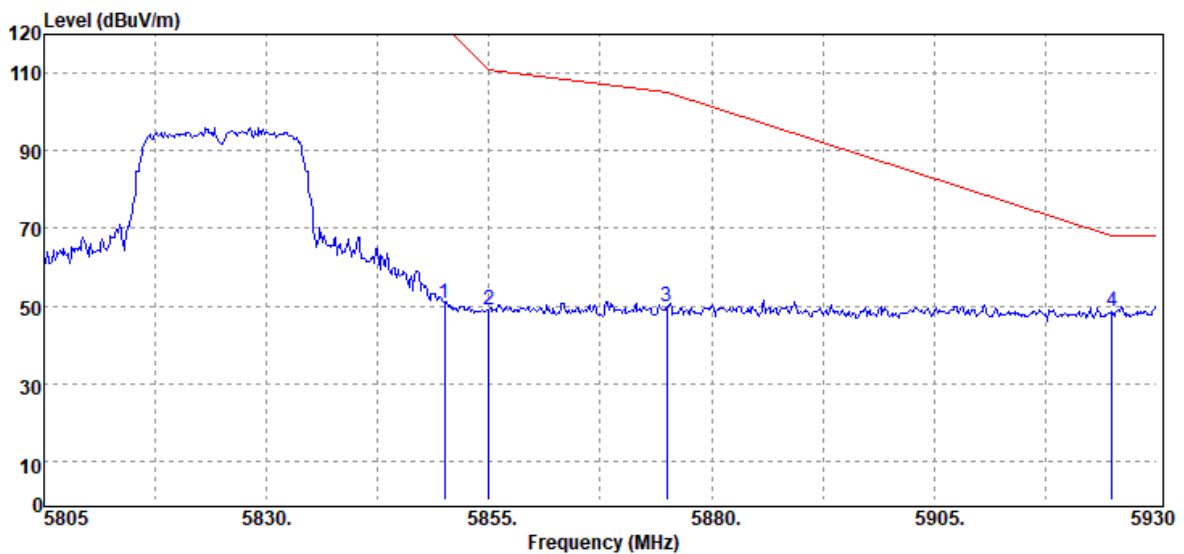
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	39.56	8.87	48.43	68.20	-19.77
5700.00	Peak	39.64	9.22	48.86	105.20	-56.34
5720.00	Peak	44.62	9.29	53.91	110.80	-56.89
5725.00	Peak	54.98	9.29	64.27	122.20	-57.93

Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



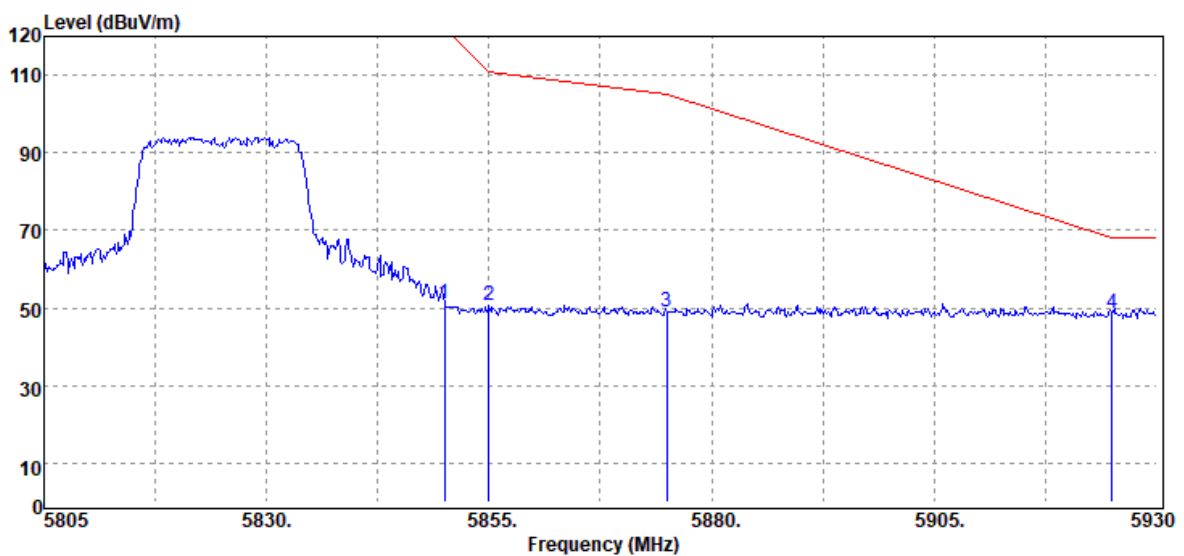
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	39.64	8.87	48.51	68.20	-19.69
5700.00	Peak	40.29	9.22	49.51	105.20	-55.69
5720.00	Peak	42.84	9.29	52.13	110.80	-58.67
5725.00	Peak	52.81	9.29	62.10	122.20	-60.10

Test Mode	IEEE 802.11n 20 MHz / 5825 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



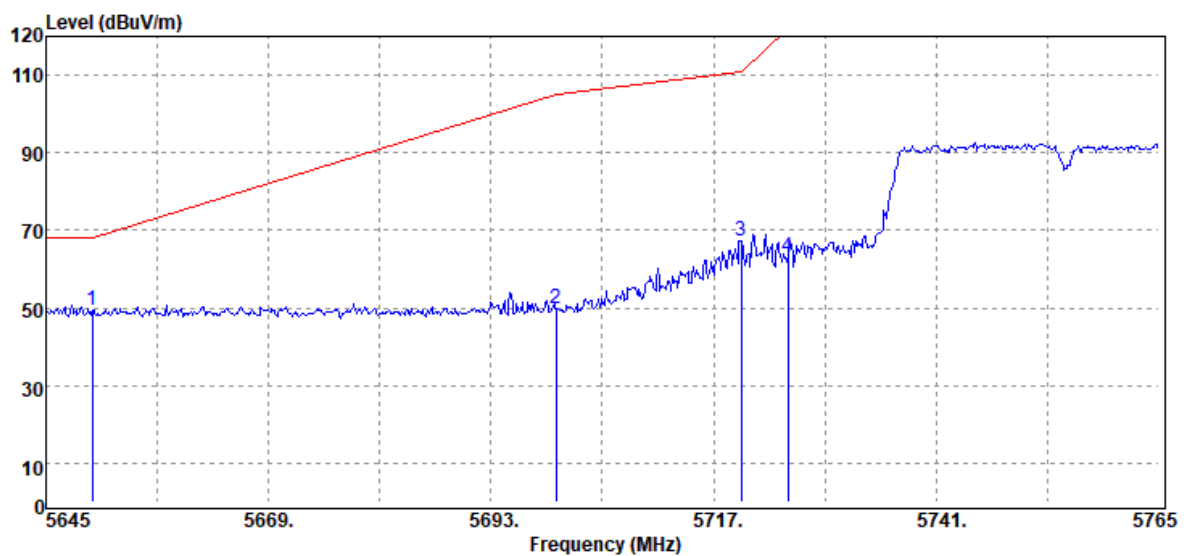
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	41.23	9.59	50.82	122.20	-71.38
5855.00	Peak	39.53	9.59	49.12	110.80	-61.68
5875.00	Peak	40.15	9.57	49.72	105.20	-55.48
5925.00	Peak	39.16	9.59	48.75	68.20	-19.45

Test Mode	IEEE 802.11n 20 MHz / 5825 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



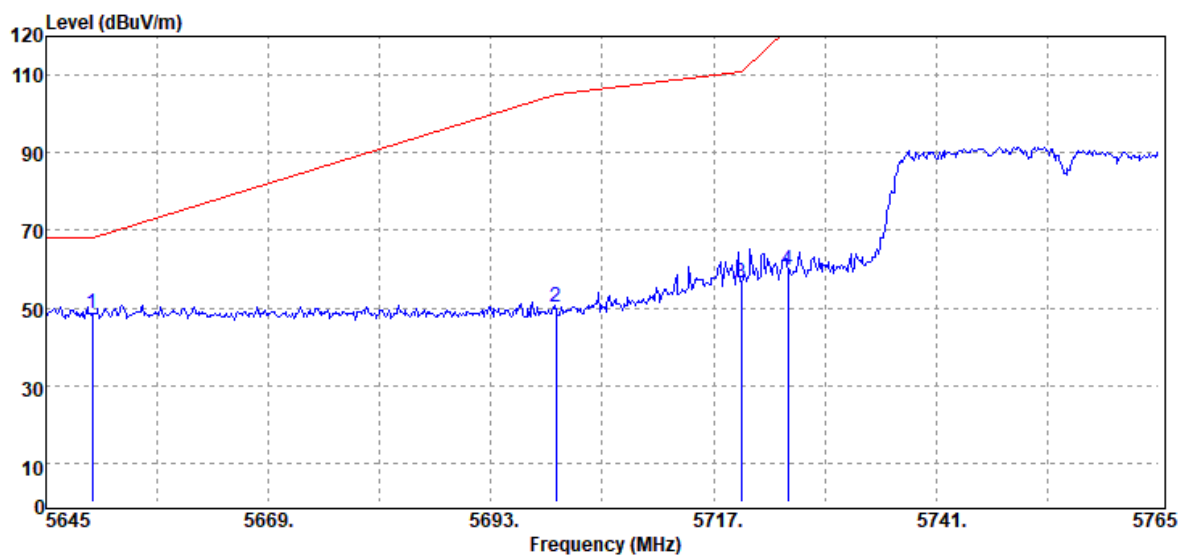
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	41.48	9.59	51.07	122.20	-71.13
5855.00	Peak	41.22	9.59	50.81	110.80	-59.99
5875.00	Peak	39.40	9.57	48.97	105.20	-56.23
5925.00	Peak	39.11	9.59	48.70	68.20	-19.50

Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



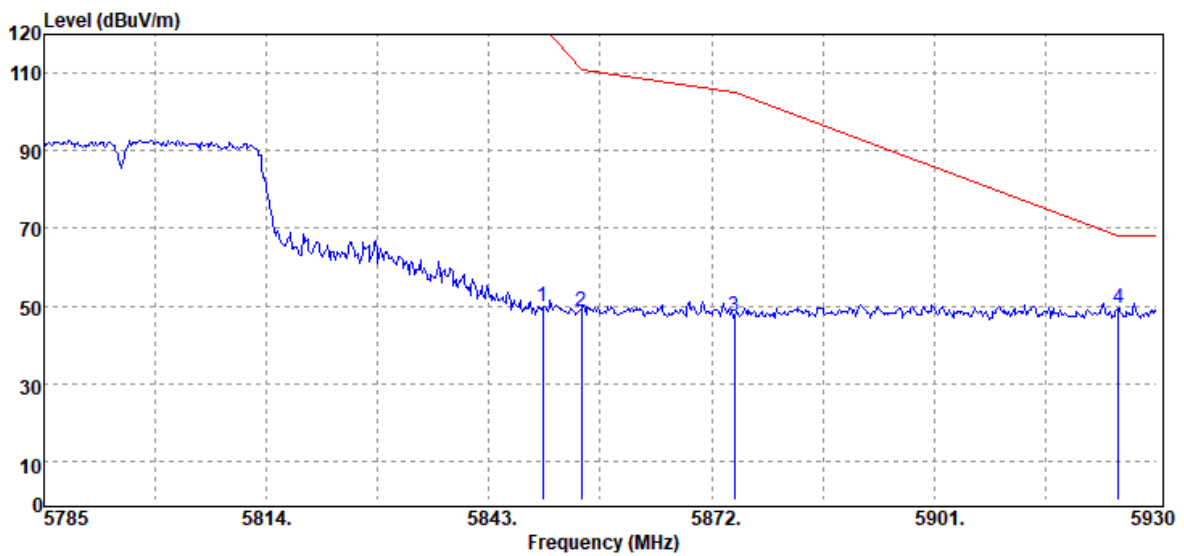
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	40.56	8.87	49.43	68.20	-18.77
5700.00	Peak	40.50	9.22	49.72	105.20	-55.48
5720.00	Peak	58.16	9.29	67.45	110.80	-43.35
5725.00	Peak	53.96	9.29	63.25	122.20	-58.95

Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



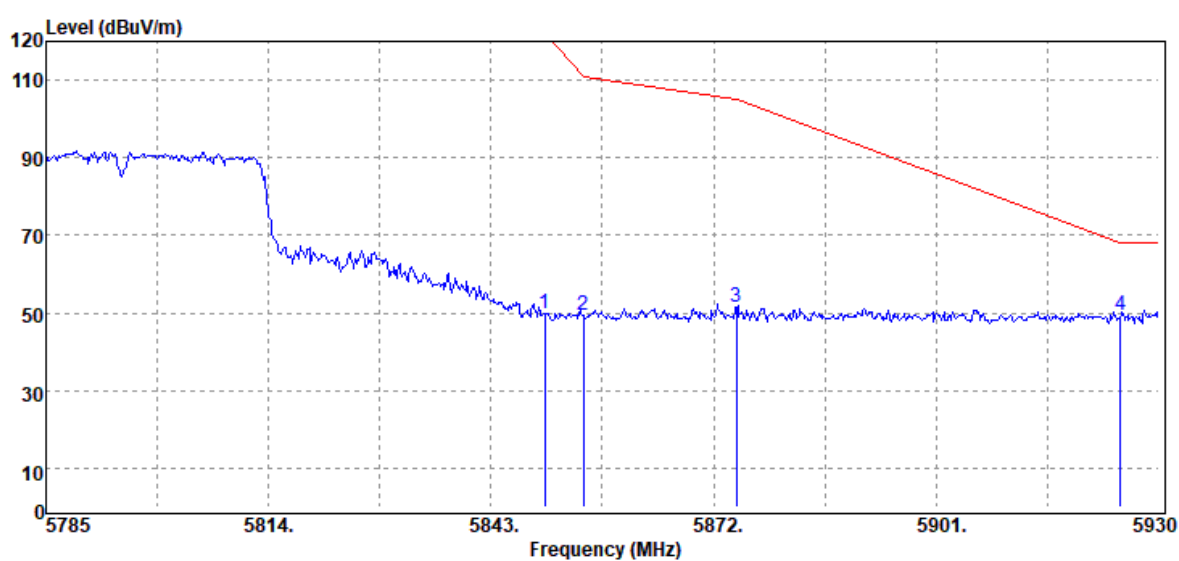
Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5650.00	Peak	39.91	8.87	48.78	68.20	-19.42
5700.00	Peak	41.07	9.22	50.29	105.20	-54.91
5720.00	Peak	47.04	9.29	56.33	110.80	-54.47
5725.00	Peak	50.54	9.29	59.83	122.20	-62.37

Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	40.31	9.59	49.90	122.20	-72.30
5855.00	Peak	39.11	9.59	48.70	110.80	-62.10
5875.00	Peak	37.93	9.57	47.50	105.20	-57.70
5925.00	Peak	39.68	9.59	49.27	68.20	-18.93

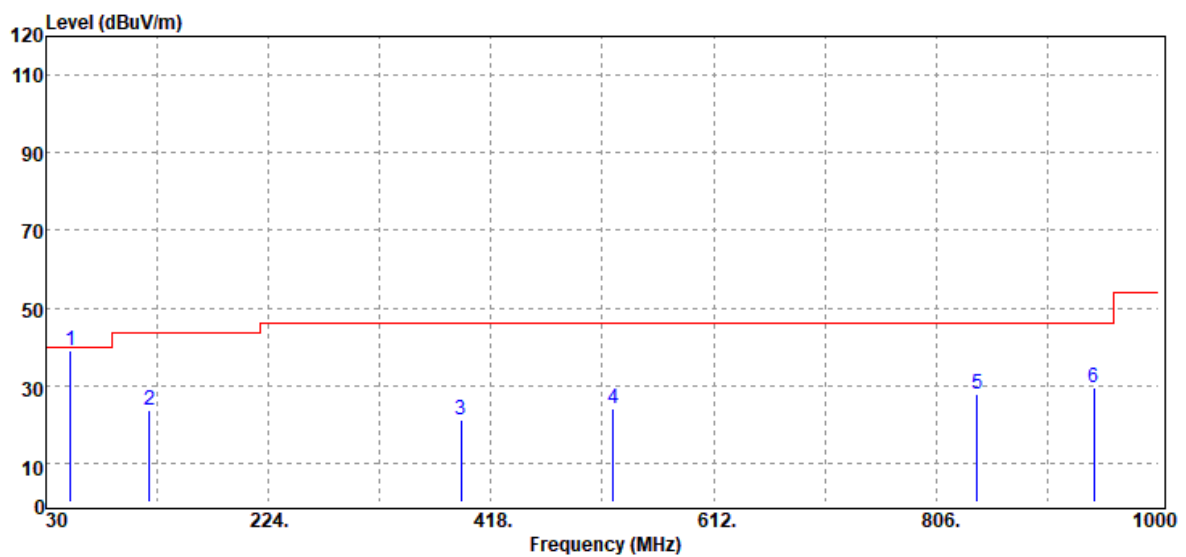
Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Band Edge	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Frequency (MHz)	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5850.00	Peak	40.21	9.59	49.80	122.20	-72.40
5855.00	Peak	39.87	9.59	49.46	110.80	-61.34
5875.00	Peak	42.06	9.57	51.63	105.20	-53.57
5925.00	Peak	39.93	9.59	49.52	68.20	-18.68

Below 1G Test Data

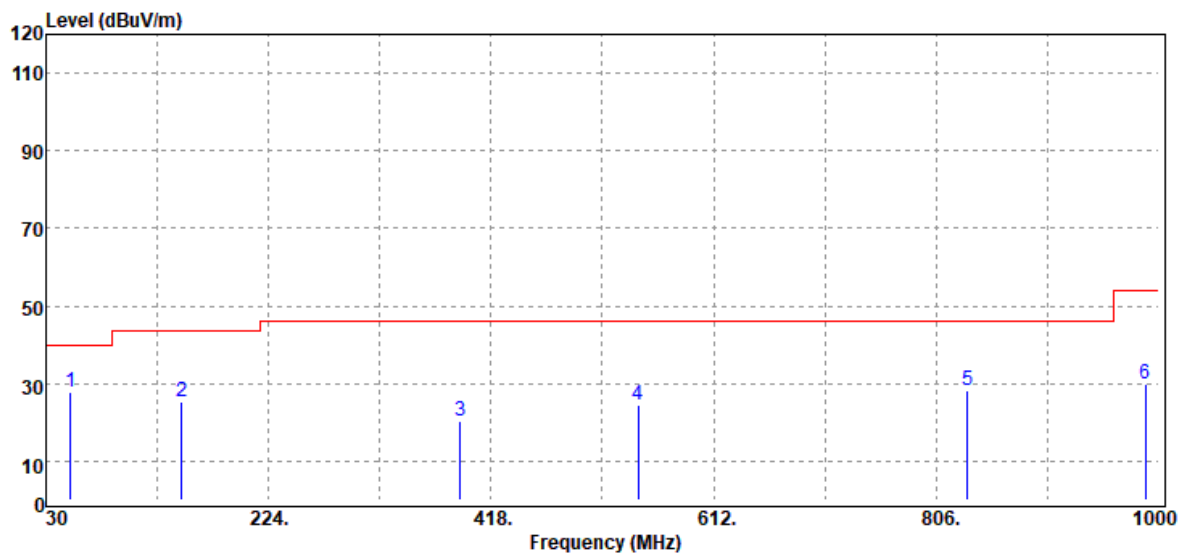
Test Mode	Mode 1	Temp/Hum	22.6(°C)/ 48%RH
Test Item	30MHz-1GHz	Test Date	May 24, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	Peak	54.77	-15.68	39.09	40.00	-0.91
120.21	Peak	32.80	-9.11	23.69	43.50	-19.81
391.81	Peak	27.26	-6.27	20.99	46.00	-25.01
524.70	Peak	27.19	-3.04	24.15	46.00	-21.85
841.89	Peak	25.42	2.36	27.78	46.00	-18.22
943.74	Peak	25.49	3.84	29.33	46.00	-16.67

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Test Mode	Mode 1	Temp/Hum	22.6(°C)/ 48%RH
Test Item	30MHz-1GHz	Test Date	May 24, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

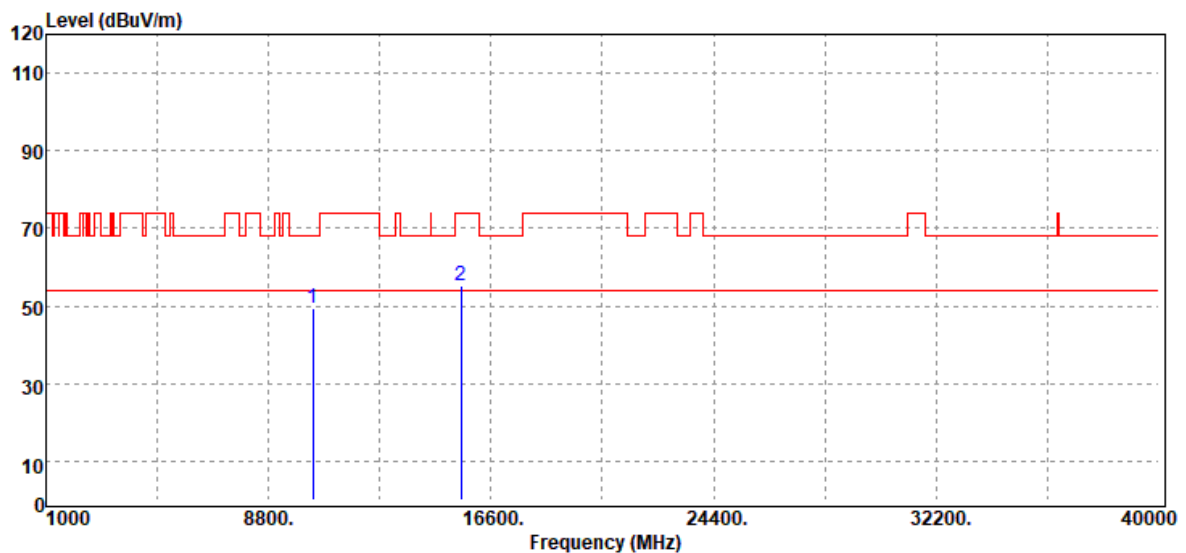


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	Peak	43.36	-15.68	27.68	40.00	-12.32
148.34	Peak	35.48	-10.33	25.15	43.50	-18.35
390.84	Peak	26.68	-6.30	20.38	46.00	-25.62
546.04	Peak	26.75	-2.41	24.34	46.00	-21.66
833.16	Peak	25.99	2.12	28.11	46.00	-17.89
988.36	Peak	25.97	4.12	30.09	54.00	-23.91

Note: 1. No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)
 2. For below 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit.

Above 1G**Test Data for UNII-1**

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Harmonic	Test Date	May 21, 2020
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

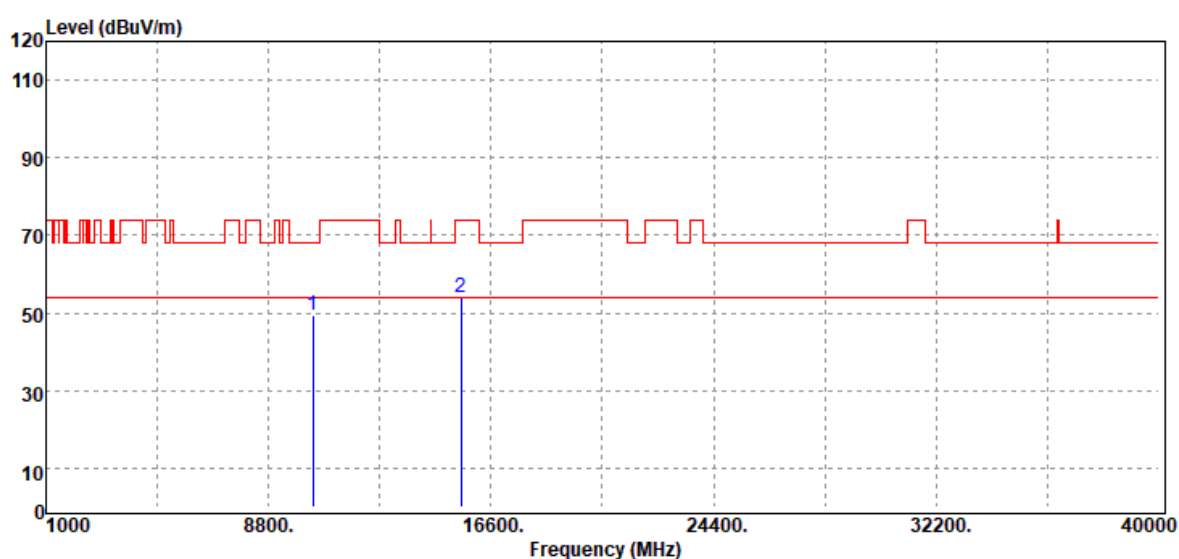


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	31.19	18.16	49.35	68.20	-18.85
15540.00	Peak	32.87	22.44	55.31	74.00	-18.69
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	22.1(°C)/ 41%RH
Test Item	Harmonic	Test Date	May 21, 2020
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	31.11	18.16	49.27	68.20	-18.93
15540.00	Peak	31.68	22.44	54.12	74.00	-19.88
N/A						

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit