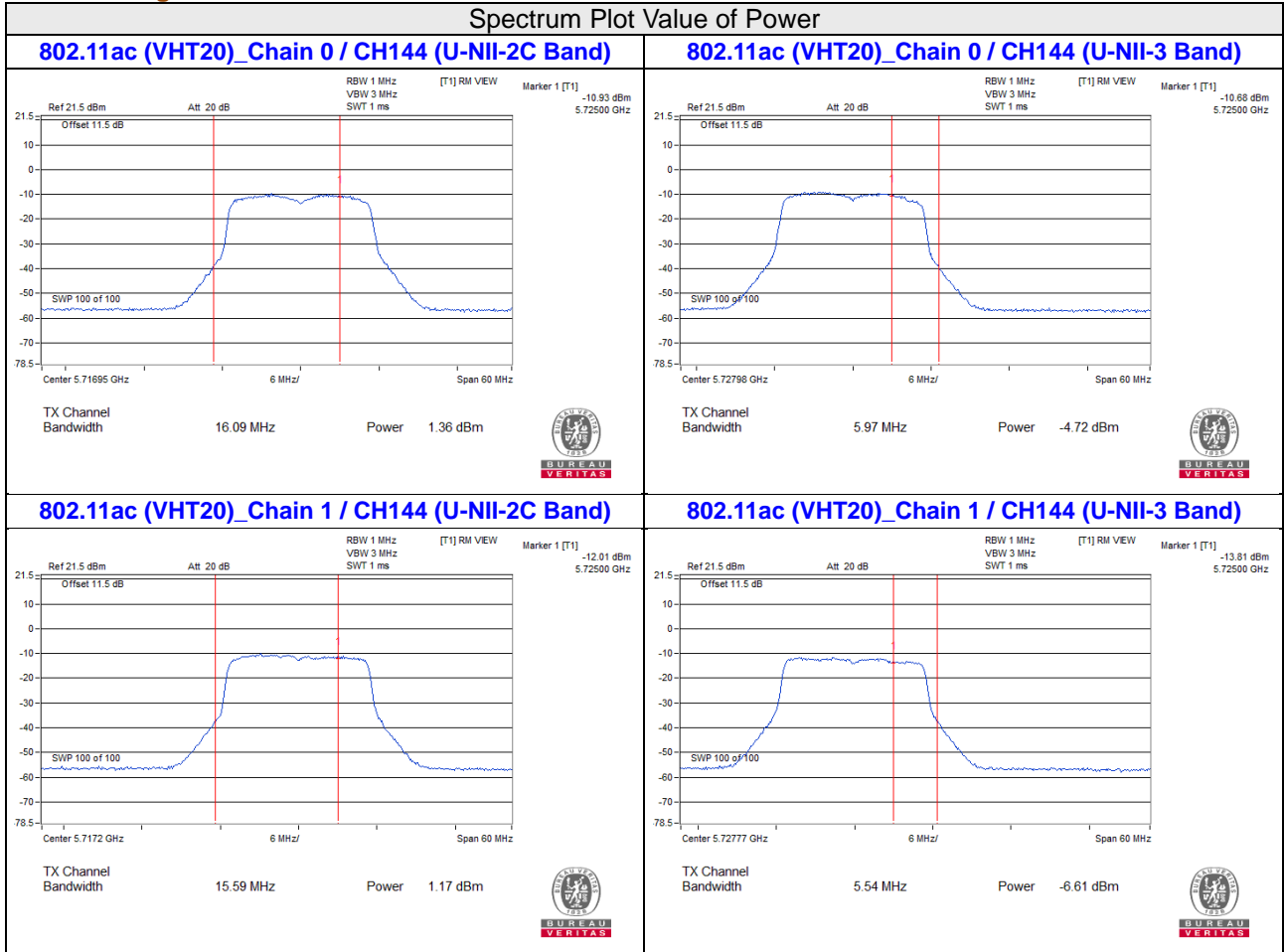
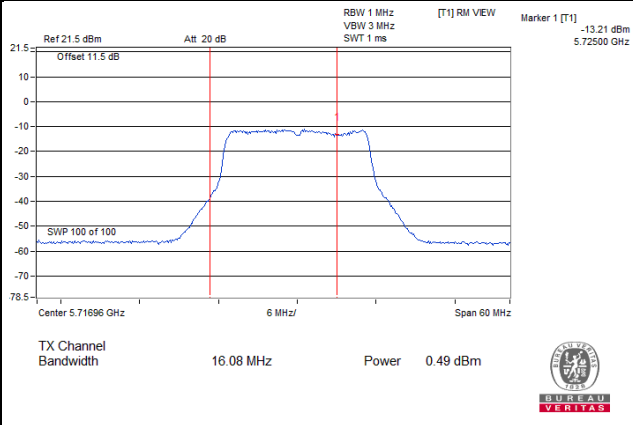


Beamforming Mode

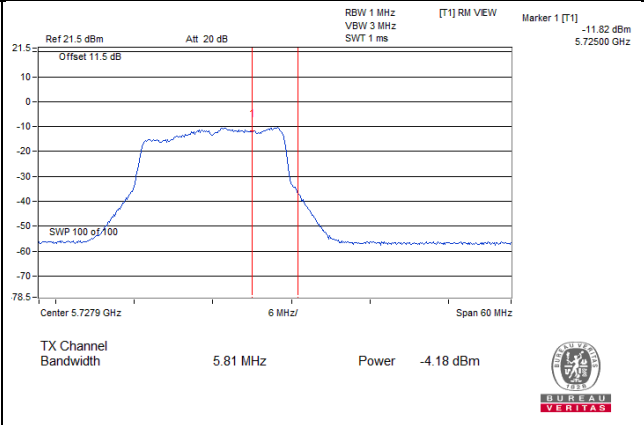
Spectrum Plot Value of Power



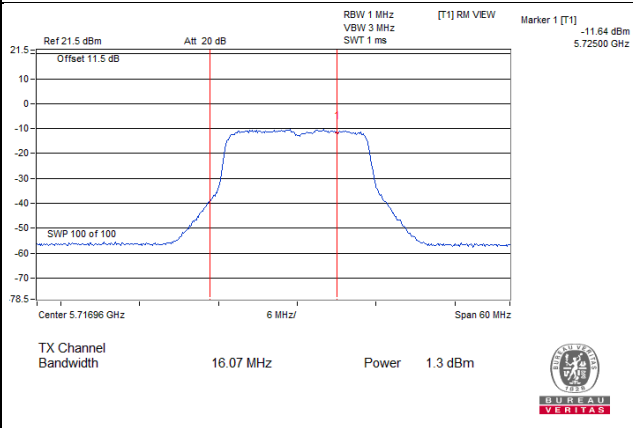
802.11ac (VHT20)_Chain 2 / CH144 (U-NII-2C Band)



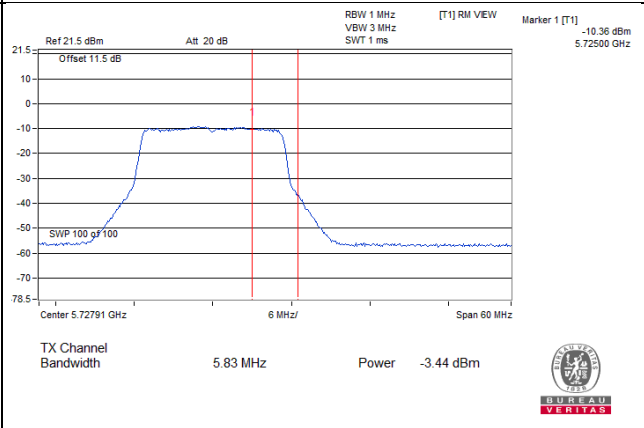
802.11ac (VHT20)_Chain 2 / CH144 (U-NII-3 Band)



802.11ac (VHT20)_Chain 3 / CH144 (U-NII-2C Band)

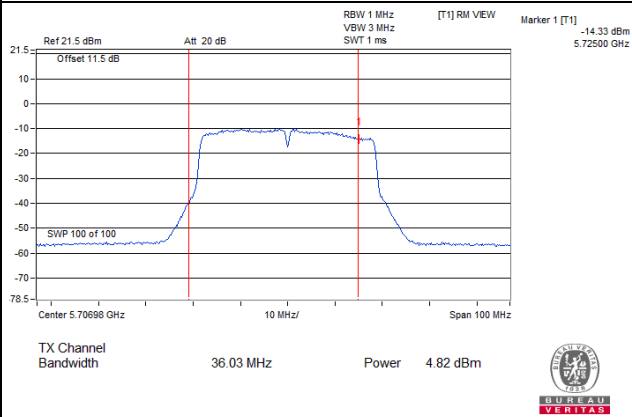


802.11ac (VHT20)_Chain 3 / CH144 (U-NII-3 Band)

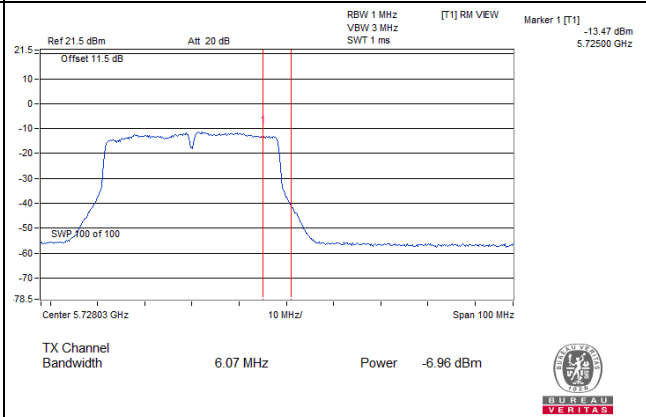


Spectrum Plot Value of Power

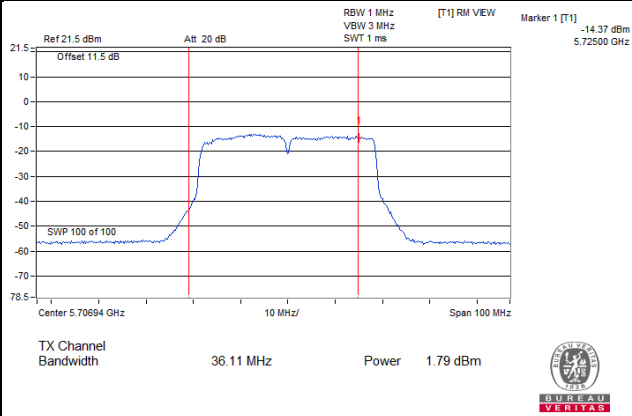
802.11ac (VHT40)_Chain 0 / CH142 (U-NII-2C Band)



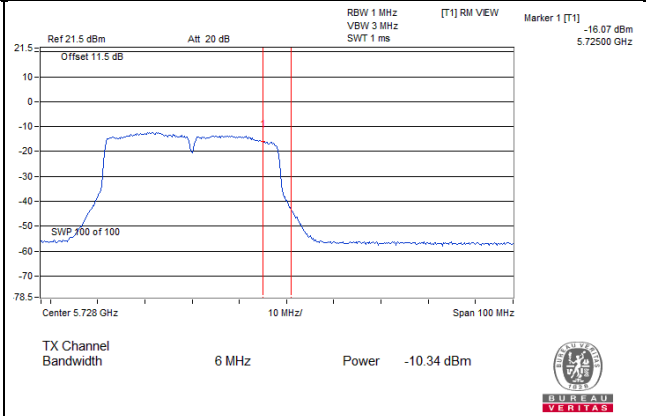
802.11ac (VHT40)_Chain 0 / CH142 (U-NII-3 Band)



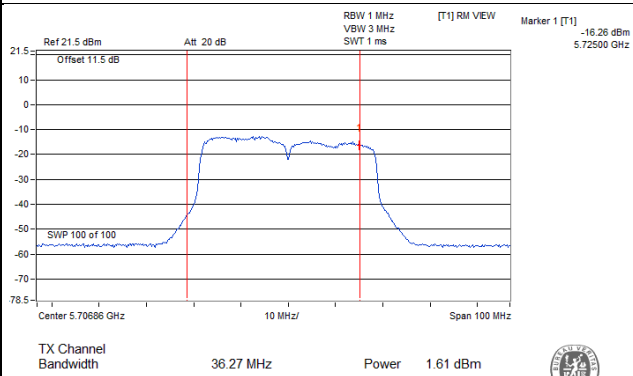
802.11ac (VHT40)_Chain 1 / CH142 (U-NII-2C Band)



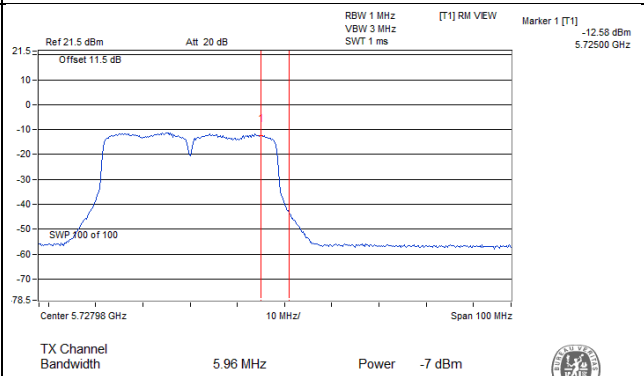
802.11ac (VHT40)_Chain 1 / CH142 (U-NII-3 Band)



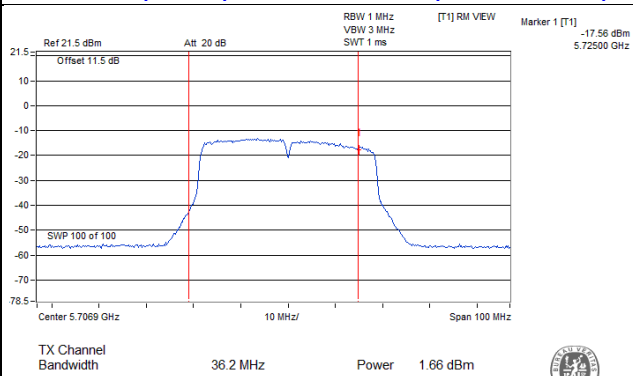
802.11ac (VHT40)_Chain 2 / CH142 (U-NII-2C Band)



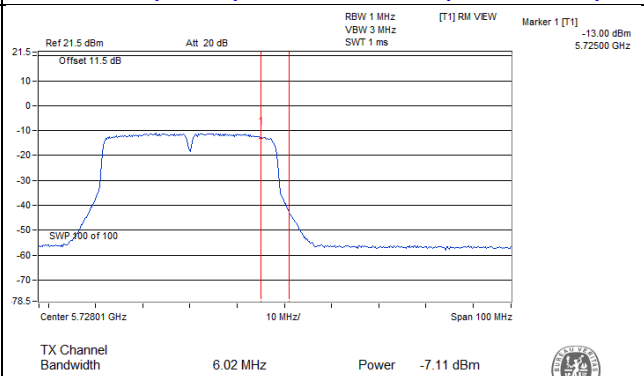
802.11ac (VHT40)_Chain 2 / CH142 (U-NII-3 Band)



802.11ac (VHT40)_Chain 3 / CH142 (U-NII-2C Band)

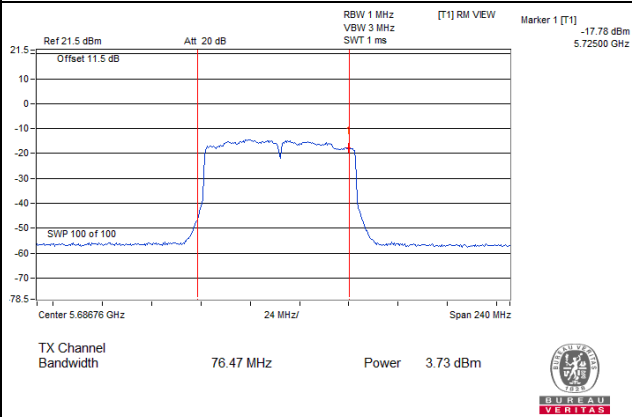


802.11ac (VHT40)_Chain 3 / CH142 (U-NII-3 Band)

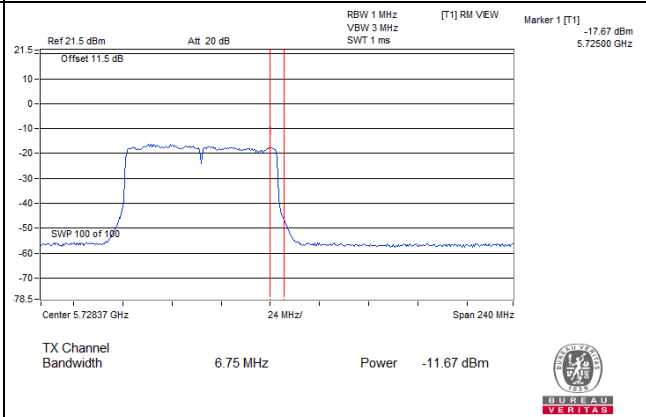


Spectrum Plot Value of Power

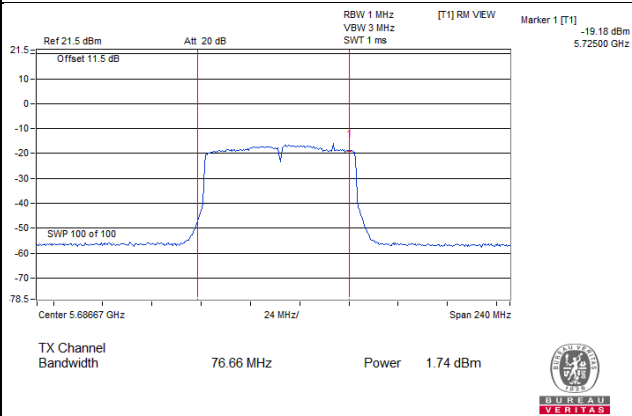
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-2C Band)



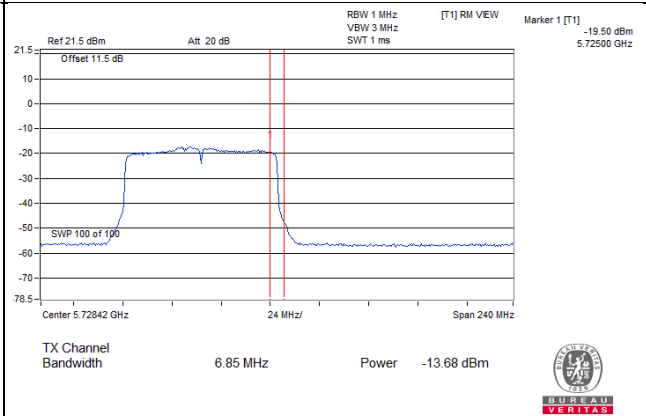
802.11ac (VHT80)_Chain 0 / CH138 (U-NII-3 Band)



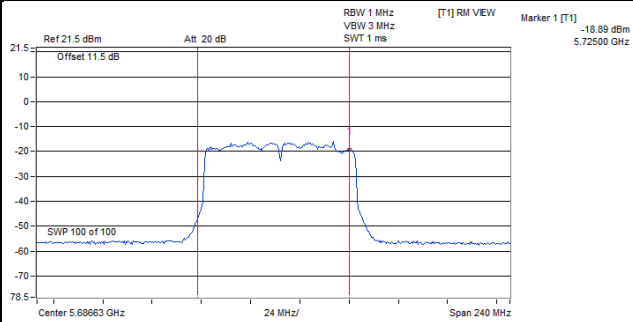
802.11ac (VHT80)_Chain 1 / CH138 (U-NII-2C Band)



802.11ac (VHT80)_Chain 1 / CH138 (U-NII-3 Band)



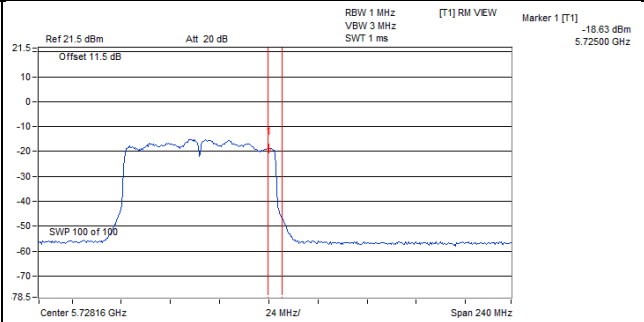
802.11ac (VHT80)_Chain 2 / CH138 (U-NII-2C Band)



TX Channel Bandwidth: 76.73 MHz Power: 1.88 dBm



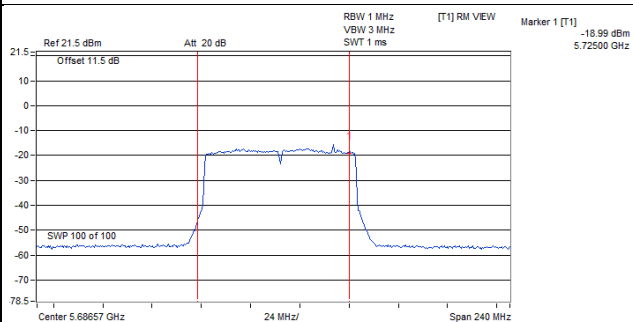
802.11ac (VHT80)_Chain 2 / CH138 (U-NII-3 Band)



TX Channel Bandwidth: 6.32 MHz Power: -12.67 dBm



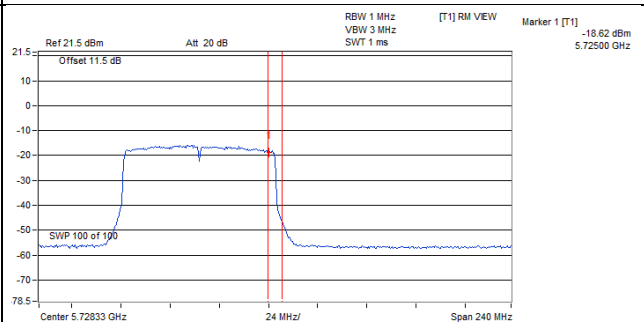
802.11ac (VHT80)_Chain 3 / CH138 (U-NII-2C Band)



TX Channel Bandwidth: 76.85 MHz Power: 1.49 dBm



802.11ac (VHT80)_Chain 3 / CH138 (U-NII-3 Band)

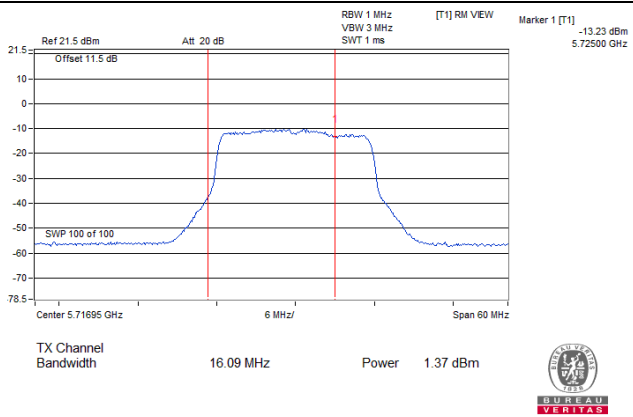


TX Channel Bandwidth: 6.68 MHz Power: -12.14 dBm

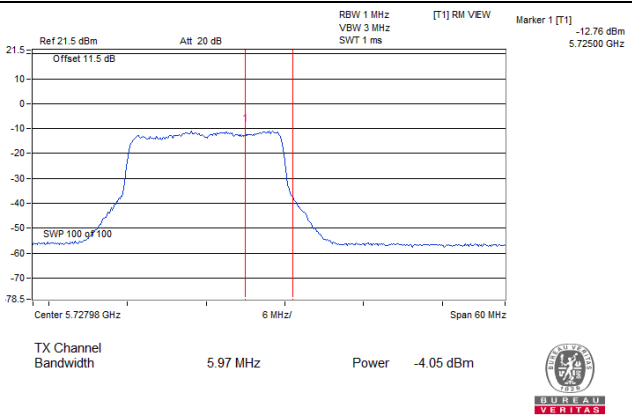


Spectrum Plot Value of Power

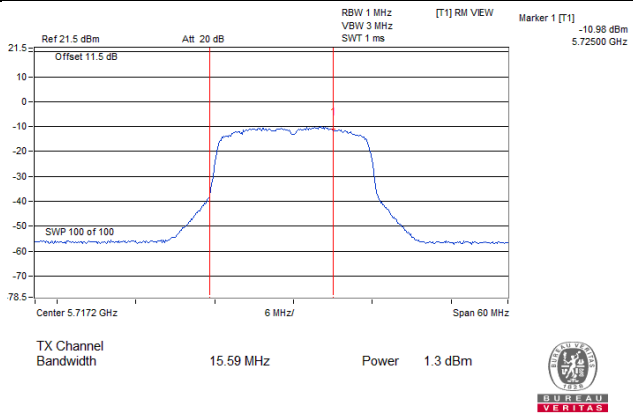
802.11ax (HE20)_Chain 0 / CH144 (U-NII-2C Band)



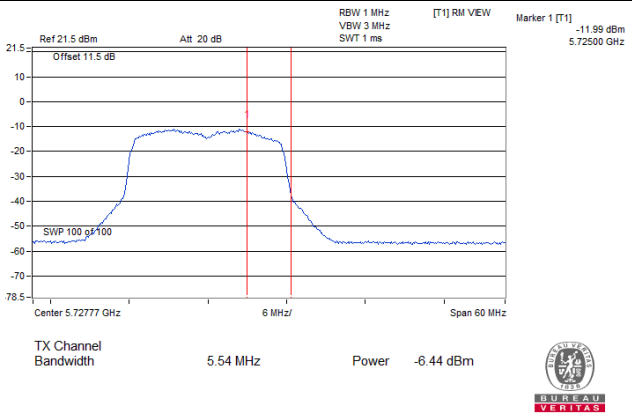
802.11ax (HE20)_Chain 0 / CH144 (U-NII-3 Band)



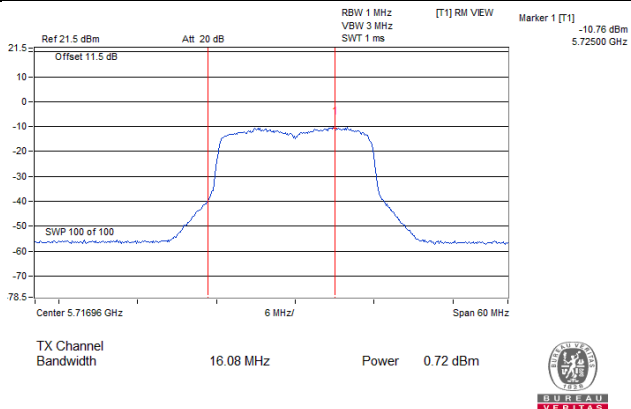
802.11ax (HE20)_Chain 1 / CH144 (U-NII-2C Band)



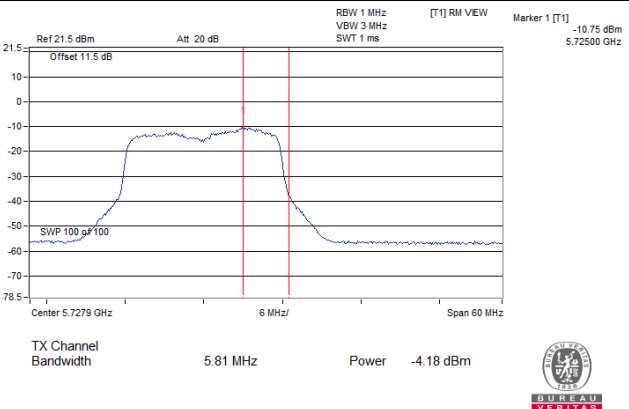
802.11ax (HE20)_Chain 1 / CH144 (U-NII-3 Band)



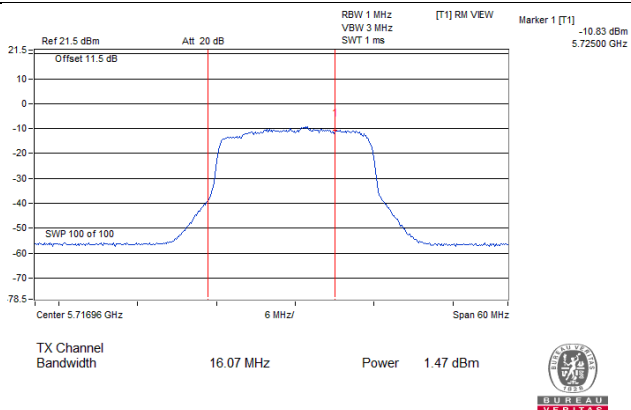
802.11ax (HE20)_Chain 2 / CH144 (U-NII-2C Band)



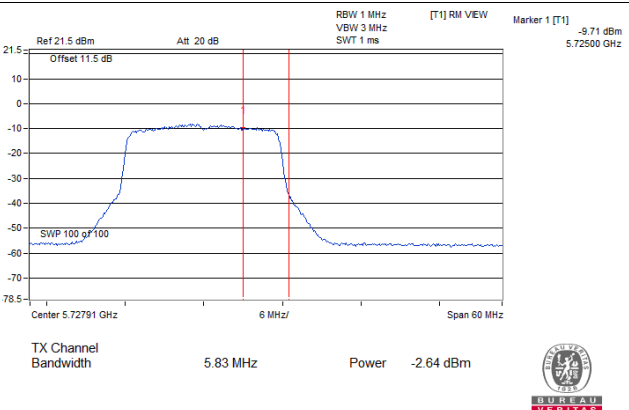
802.11ax (HE20)_Chain 2 / CH144 (U-NII-3 Band)



802.11ax (HE20)_Chain 3 / CH144 (U-NII-2C Band)

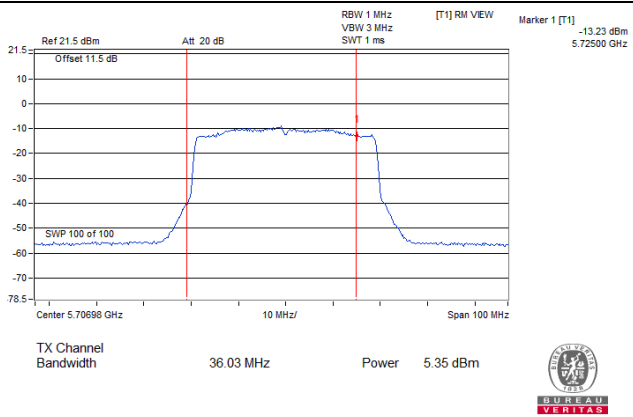


802.11ax (HE20)_Chain 3 / CH144 (U-NII-3 Band)

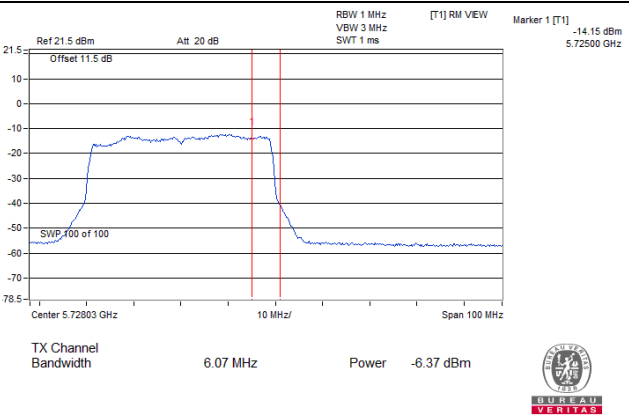


Spectrum Plot Value of Power

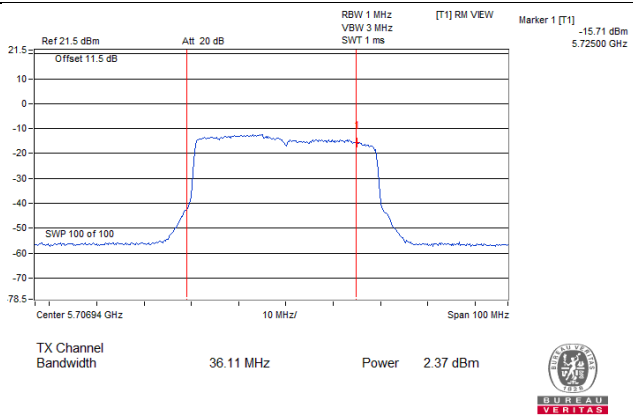
802.11ax (HE40)_Chain 0 / CH142 (U-NII-2C Band)



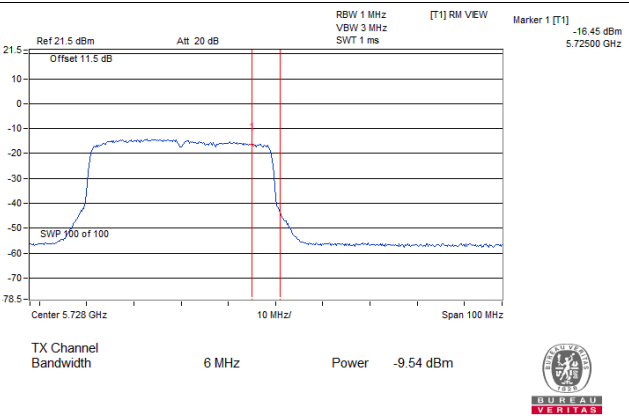
802.11ax (HE40)_Chain 0 / CH142 (U-NII-3 Band)



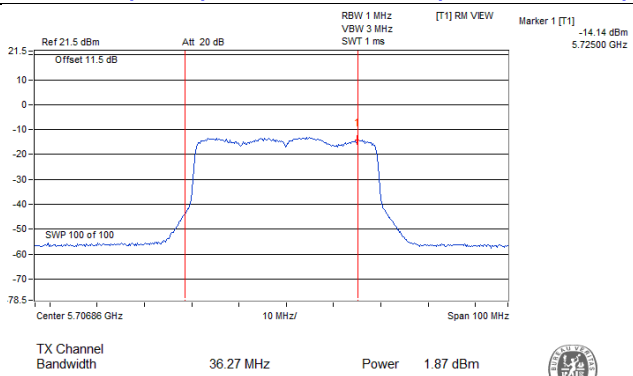
802.11ax (HE40)_Chain 1 / CH142 (U-NII-2C Band)



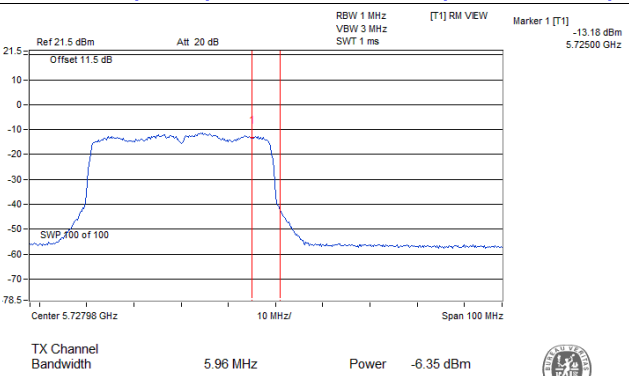
802.11ax (HE40)_Chain 1 / CH142 (U-NII-3 Band)



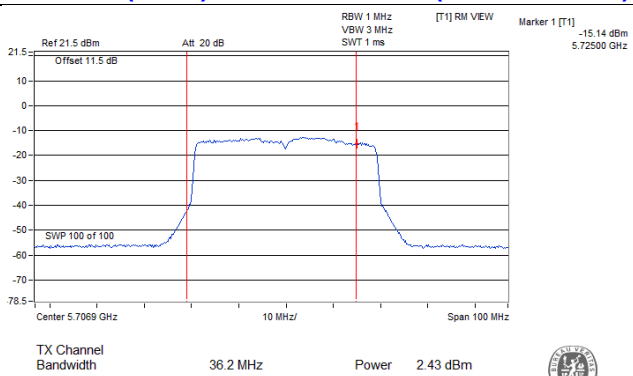
802.11ax (HE40)_Chain 2 / CH142 (U-NII-2C Band)



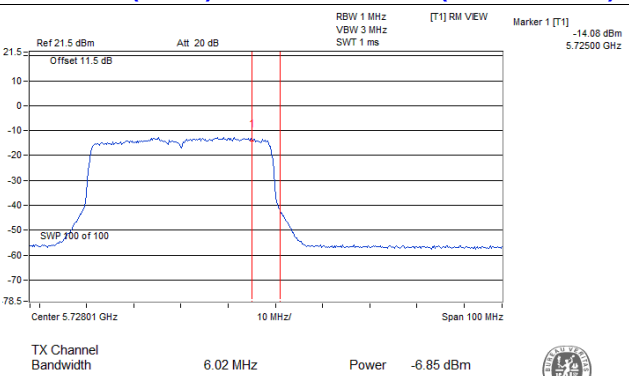
802.11ax (HE40)_Chain 2 / CH142 (U-NII-3 Band)



802.11ax (HE40)_Chain 3 / CH142 (U-NII-2C Band)

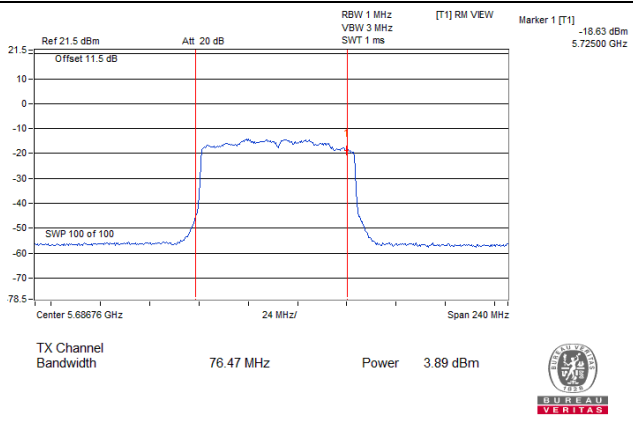


802.11ax (HE40)_Chain 3 / CH142 (U-NII-3 Band)

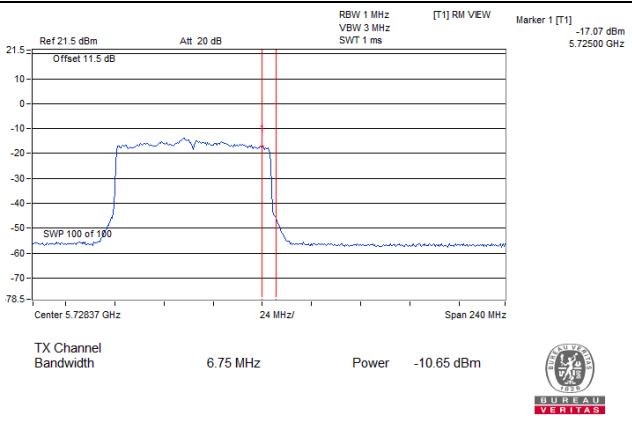


Spectrum Plot Value of Power

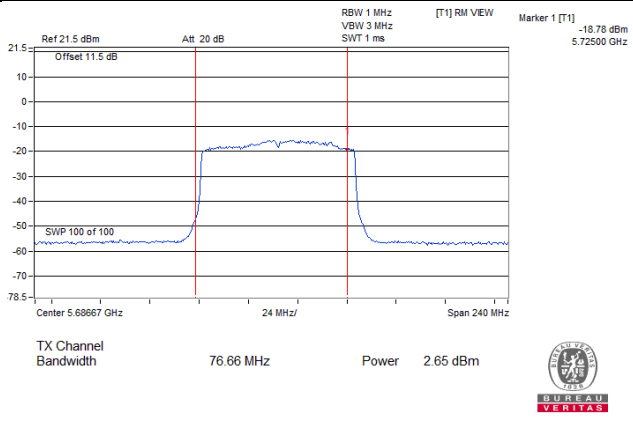
802.11ax (HE80)_Chain 0 / CH138 (U-NII-2C Band)



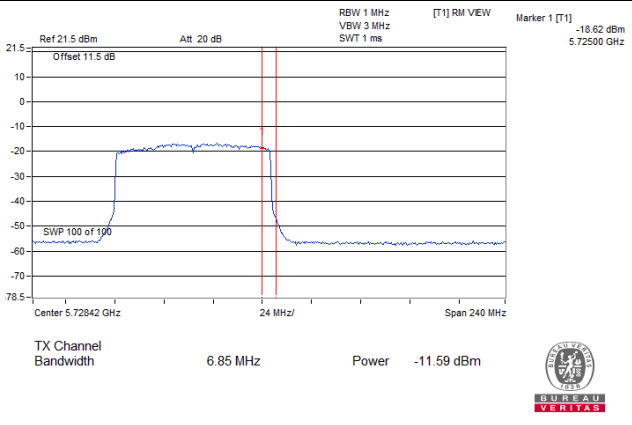
802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)



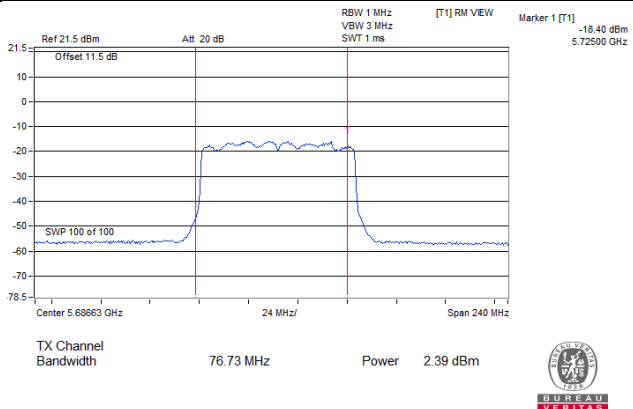
802.11ax (HE80)_Chain 1 / CH138 (U-NII-2C Band)



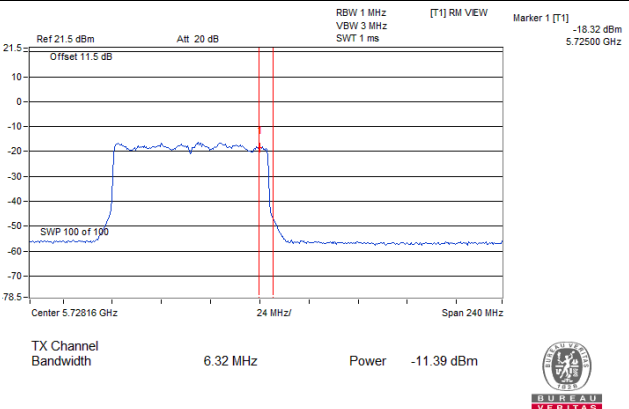
802.11ax (HE80)_Chain 1 / CH138 (U-NII-3 Band)



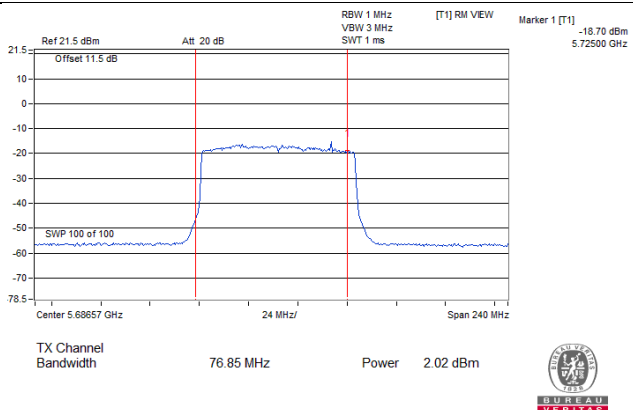
802.11ax (HE80)_Chain 2 / CH138 (U-NII-2C Band)



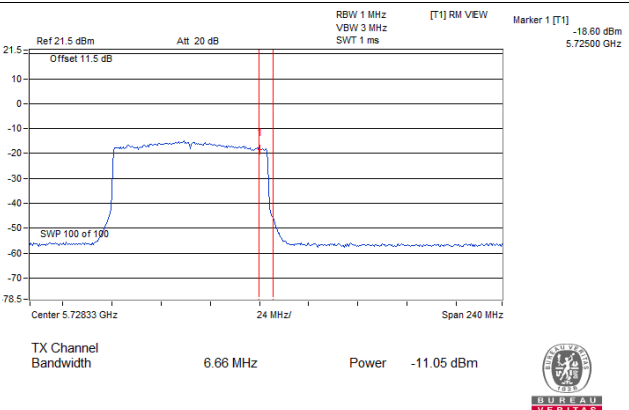
802.11ax (HE80)_Chain 2 / CH138 (U-NII-3 Band)



802.11ax (HE80)_Chain 3 / CH138 (U-NII-2C Band)



802.11ax (HE80)_Chain 3 / CH138 (U-NII-3 Band)



Non-Beamforming Mode

26dB OCCUPIED BANDWIDTH

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	20.77	20.63	20.71	20.87
60	5300	20.71	20.99	20.72	20.88
64	5320	20.56	20.85	20.74	20.61
100	5500	20.89	20.84	20.68	20.73
116	5580	20.88	20.40	20.16	20.86
140	5700	20.95	21.09	21.06	20.89
144 (U-NII-2C Band)	5720	15.44	15.49	15.72	15.35

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	21.98	21.84	21.71	21.79
60	5300	22.02	22.09	22.03	22.36
64	5320	22.10	22.00	22.12	21.72
100	5500	22.27	22.09	22.51	22.02
116	5580	22.32	21.57	22.18	22.27
140	5700	21.69	21.84	21.38	21.90
144 (U-NII-2C Band)	5720	16.09	15.59	16.08	16.07

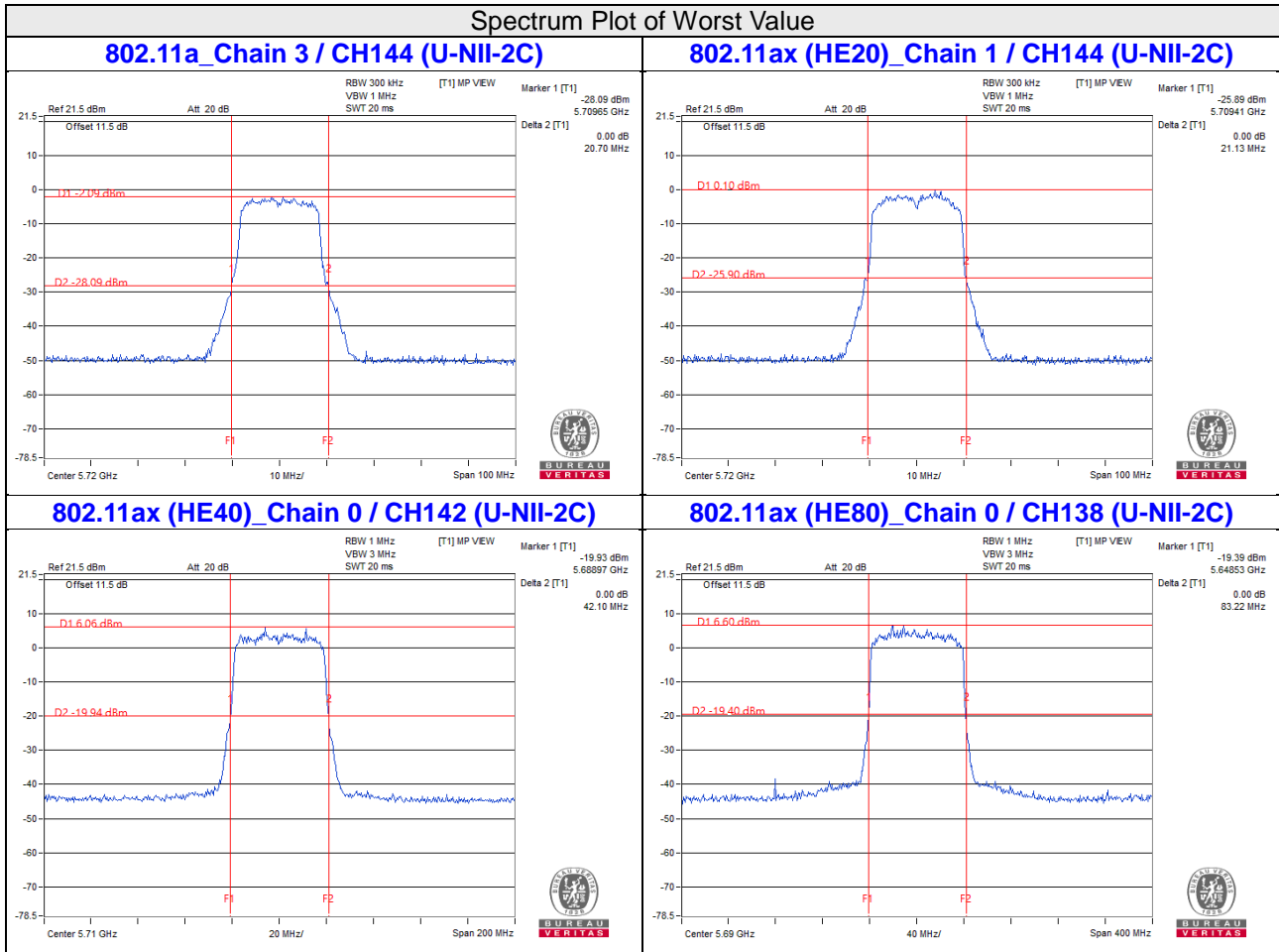
802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
54	5270	42.81	42.34	42.55	42.24
62	5310	42.67	42.60	42.54	42.86
102	5510	42.29	42.27	42.41	42.29
110	5550	42.42	42.30	42.50	42.33
134	5670	42.45	42.39	42.31	42.65
142 (U-NII-2C Band)	5710	36.03	36.11	36.27	36.20

802.11ax (HE80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
58	5290	83.91	83.25	83.89	83.51
106	5530	83.31	83.11	82.91	83.37
122	5610	83.56	83.35	82.94	83.59
138 (U-NII-2C Band)	5690	76.47	76.66	76.73	76.85

Spectrum Plot of Worst Value

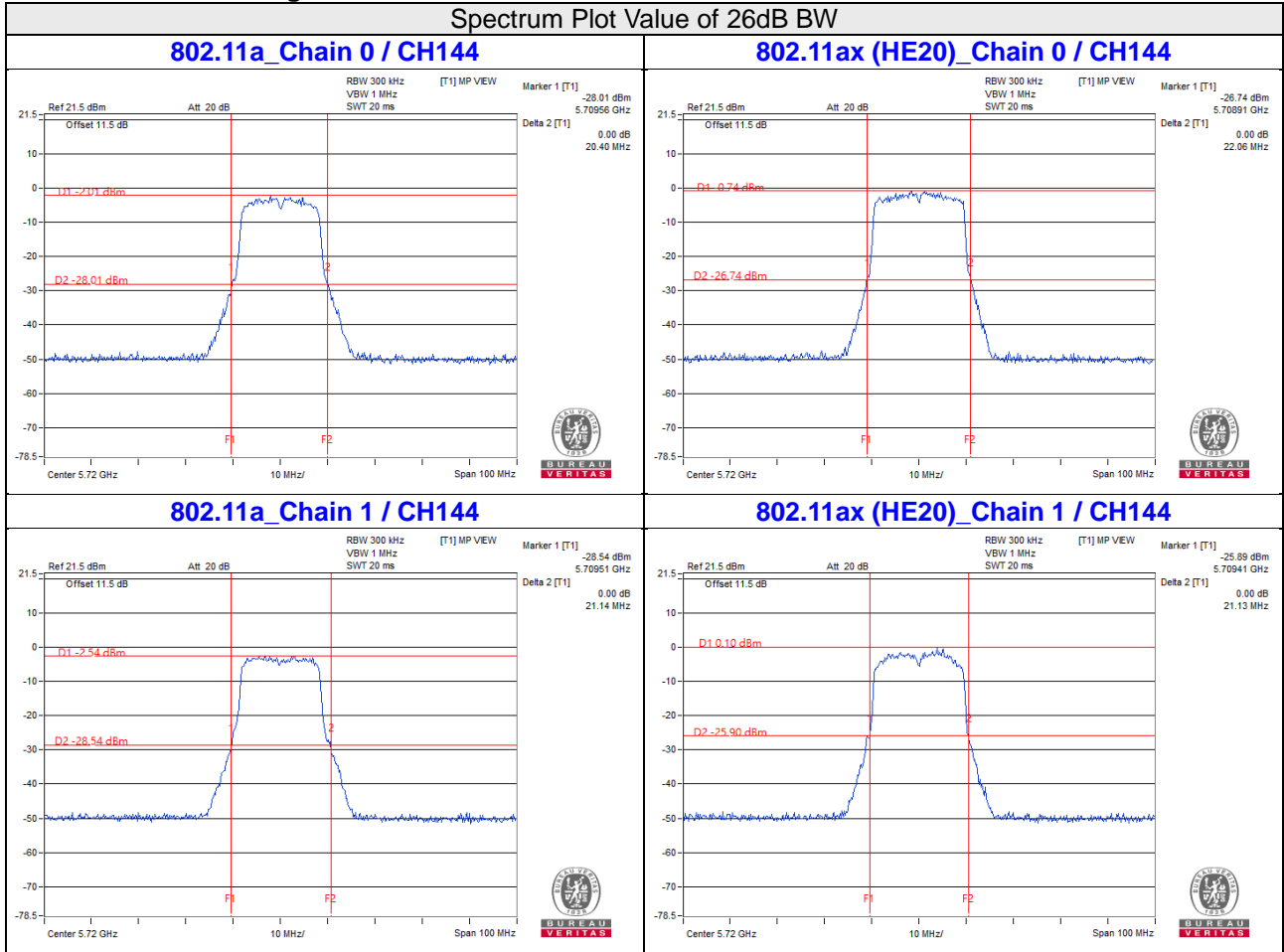


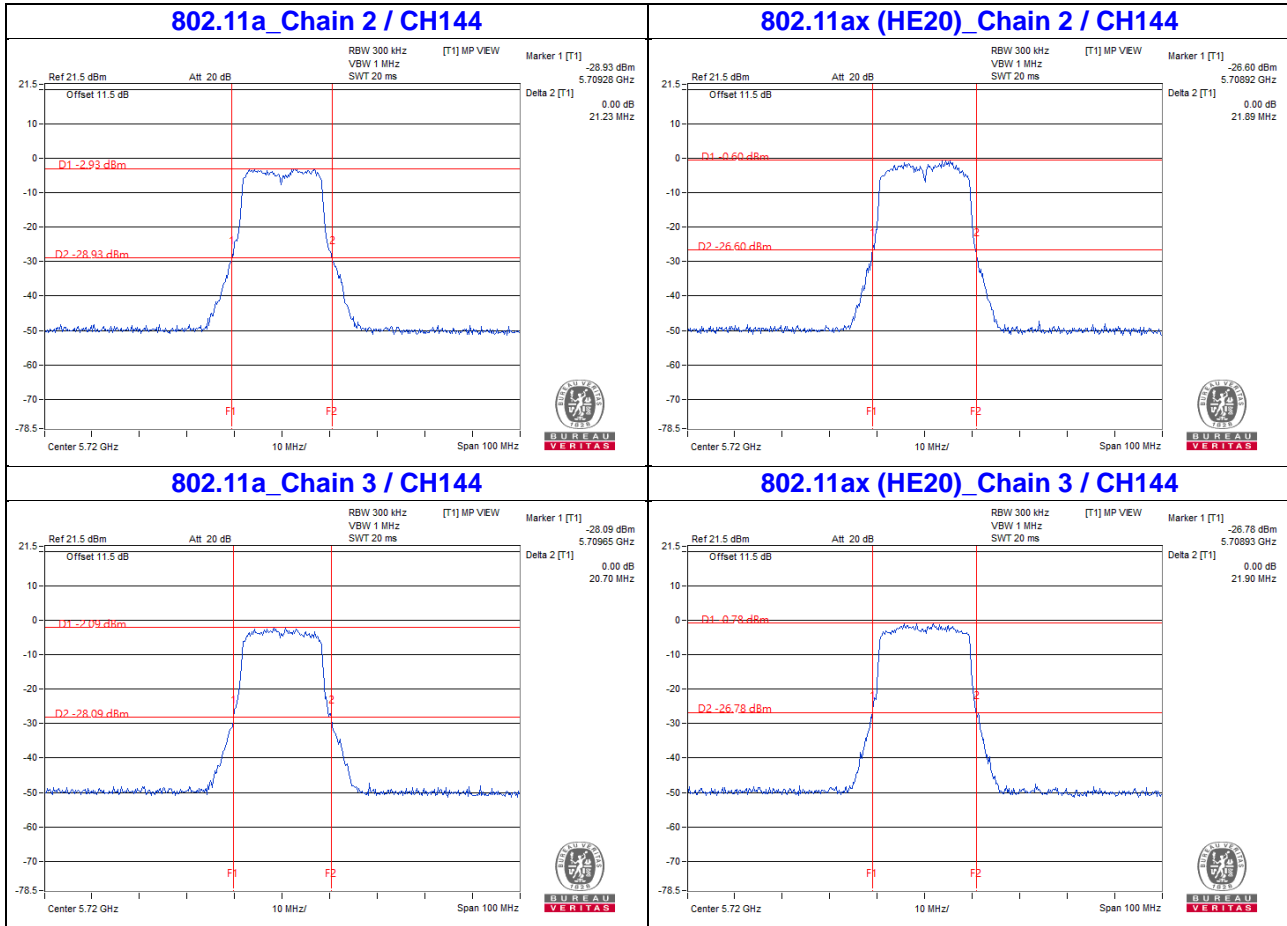
Note:

- For CH144 (U-NII-2C) = 5725MHz - Marker 1
- For CH142 (U-NII-2C) = 5725MHz - Marker 1
- For CH138 (U-NII-2C) = 5725MHz - Marker 1

For channel straddling 5725MHz of 26dB BW

Spectrum Plot Value of 26dB BW



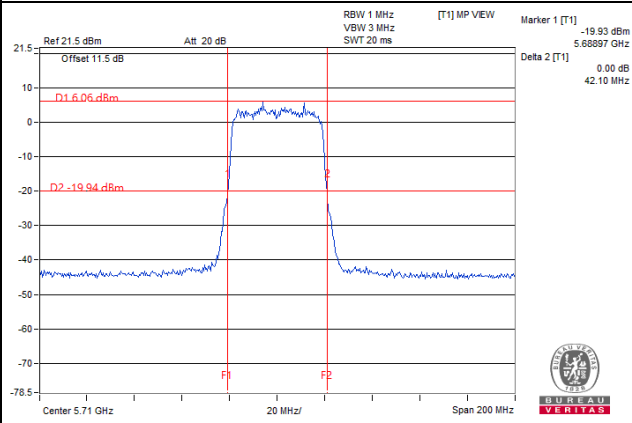


Note:

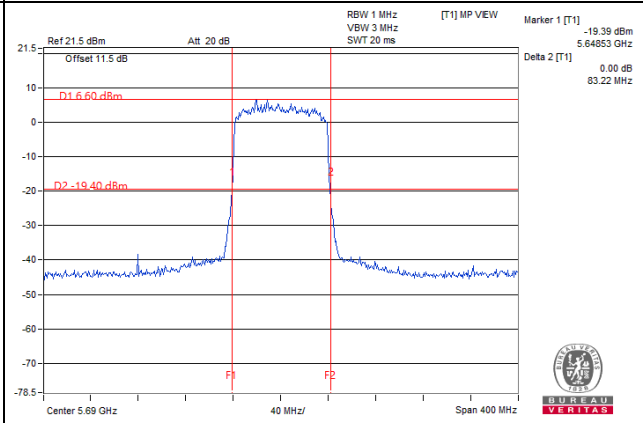
- For CH144 (U-NII-2C) = 5725MHz - Marker 1
- For CH142 (U-NII-2C) = 5725MHz - Marker 1
- For CH138 (U-NII-2C) = 5725MHz - Marker 1

Spectrum Plot Value of 26dB BW

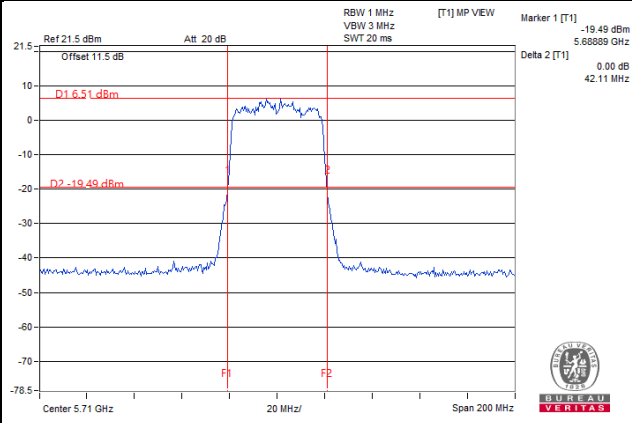
802.11ax (HE40)_Chain 0 / CH142



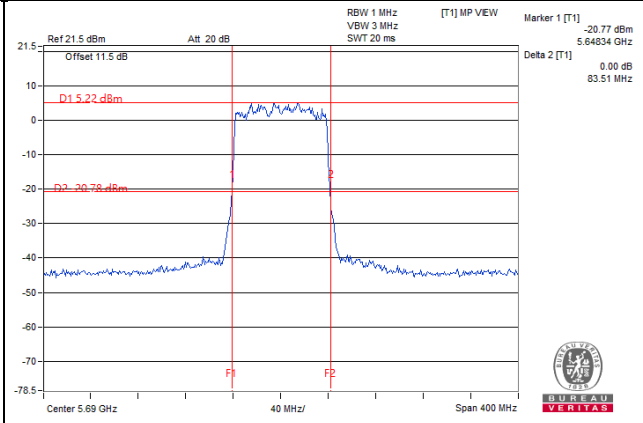
802.11ax (HE80)_Chain 0 / CH138

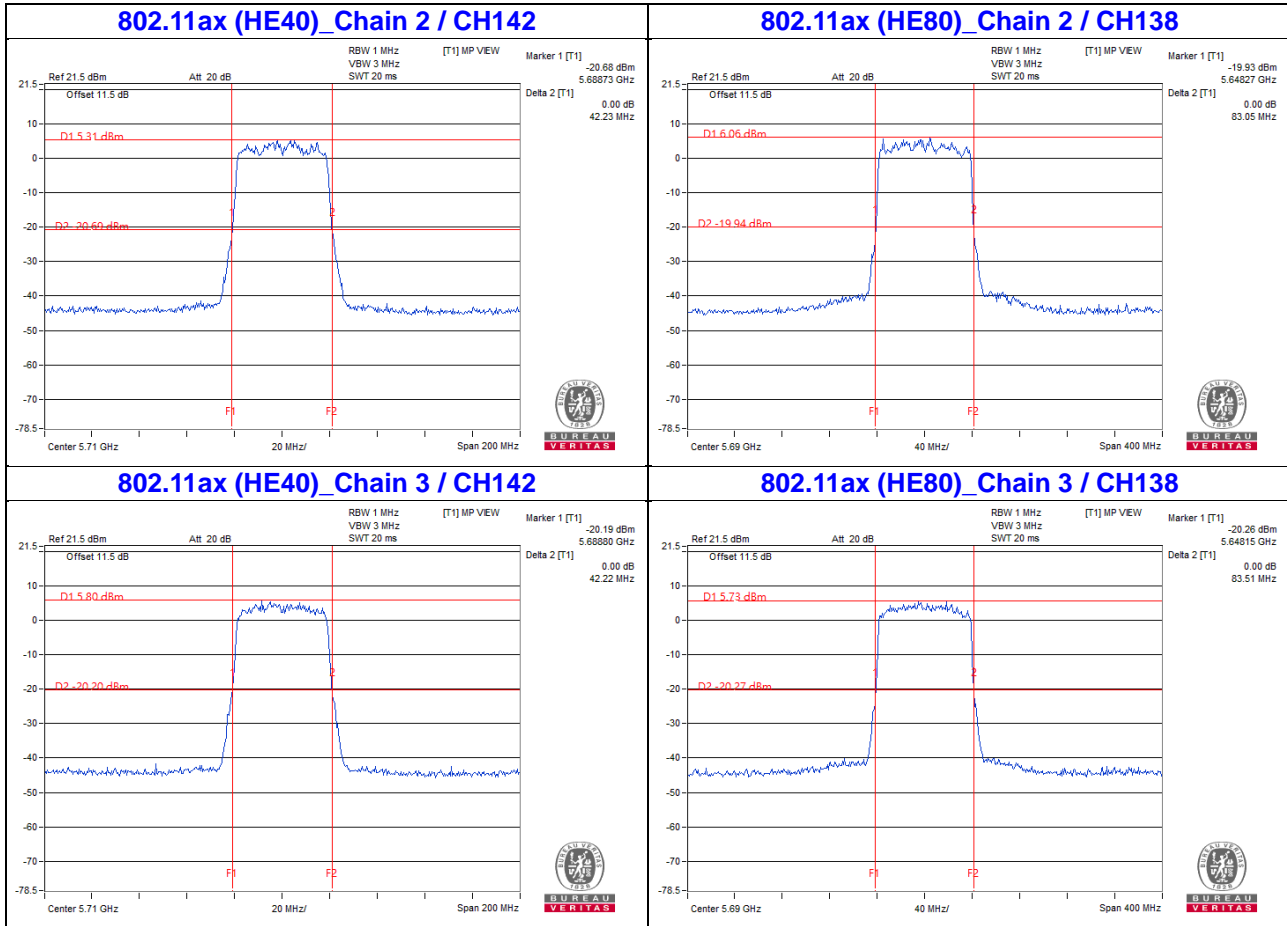


802.11ax (HE40)_Chain 1 / CH142



802.11ax (HE80)_Chain 1 / CH138



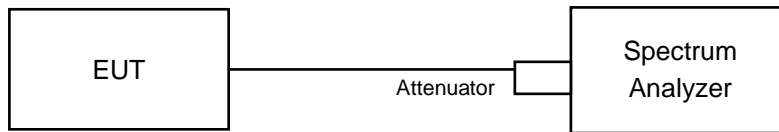


Note:

- For CH144 (U-NII-2C) = 5725MHz - Marker 1
- For CH142 (U-NII-2C) = 5725MHz - Marker 1
- For CH138 (U-NII-2C) = 5725MHz - Marker 1

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

4.4.4 Test Results (Mode 1)

Non-Beamforming Mode

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.44	16.44	16.56	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.44	16.56	16.44	16.44
144 (U-NII-2C Band)	5720	13.28	13.28	13.40	13.28
144 (U-NII-3 Band)	5720	3.16	3.16	3.16	3.16

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	18.96	18.96	18.96	18.96
60	5300	18.96	18.96	18.96	18.96
64	5320	18.96	18.96	19.08	18.96
100	5500	18.96	18.96	19.08	18.96
116	5580	19.08	18.96	18.84	19.08
140	5700	18.96	19.08	18.96	18.96
144 (U-NII-2C Band)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3 Band)	5720	4.36	4.36	4.36	4.36

802.11ax (HE40)

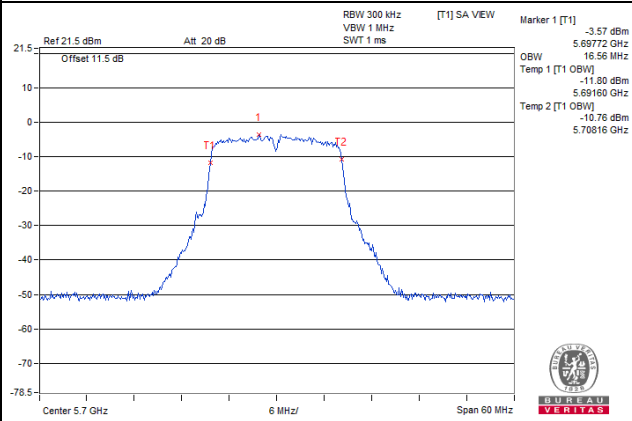
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
54	5270	38.64	37.68	37.92	37.92
62	5310	37.92	37.68	38.16	38.16
102	5510	38.16	37.68	37.68	37.92
110	5550	37.92	37.68	37.92	38.16
134	5670	38.16	37.92	37.92	38.16
142 (U-NII-2C Band)	5710	33.96	33.96	34.20	34.20
142 (U-NII-3 Band)	5710	3.72	3.72	3.72	3.96

802.11ax (HE80)

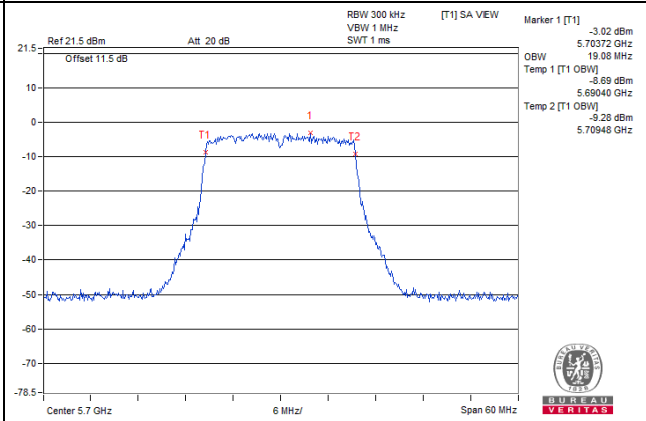
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
58	5290	77.28	77.28	77.76	77.28
106	5530	77.28	77.28	77.28	77.28
122	5610	77.28	76.80	77.28	77.28
138 (U-NII-2C Band)	5690	73.88	73.88	73.88	73.88
138 (U-NII-3 Band)	5690	3.40	3.40	3.40	3.40

Spectrum Plot of Max. Value

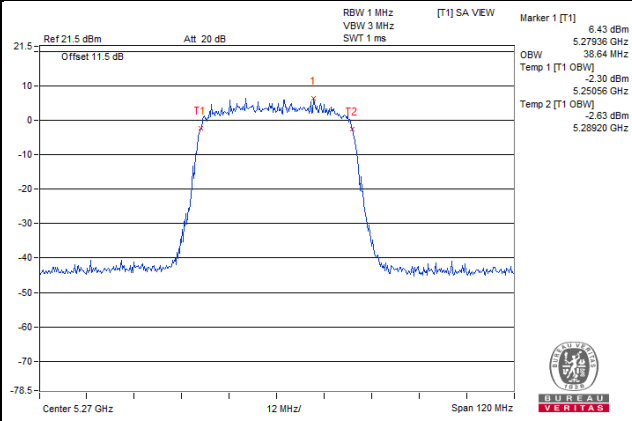
802.11a_Chain 1 / CH140



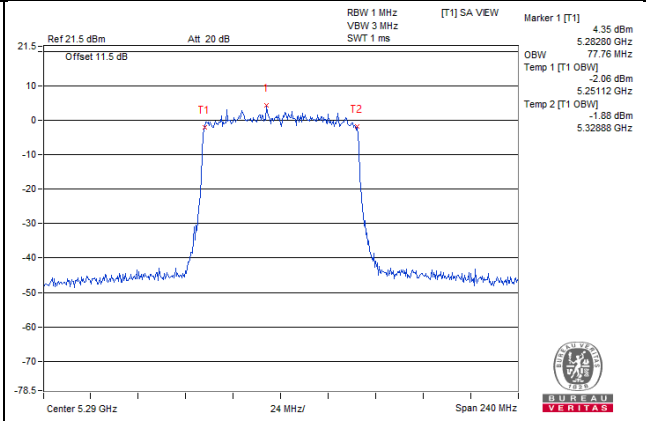
802.11ax (HE20)_Chain 1 / CH140



802.11ax (HE40)_Chain 0 / CH54



802.11ax (HE80)_Chain 2 / CH58



4.4.5 Test Results (Mode 2)

Non-Beamforming Mode

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.43	16.44	16.44	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.56	16.44	16.56	16.44
144 (U-NII-2C Band)	5720	13.28	13.28	13.4	13.28
144 (U-NII-3 Band)	5720	3.16	3.16	3.28	3.16

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	19.08	18.96	18.96	18.84
60	5300	18.96	18.96	18.96	18.96
64	5320	19.08	18.96	18.96	18.96
100	5500	18.96	18.96	18.96	18.96
116	5580	18.96	18.96	18.96	18.96
140	5700	19.08	18.96	18.96	18.96
144 (U-NII-2C Band)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3 Band)	5720	4.36	4.36	4.36	4.36

802.11ax (HE40)

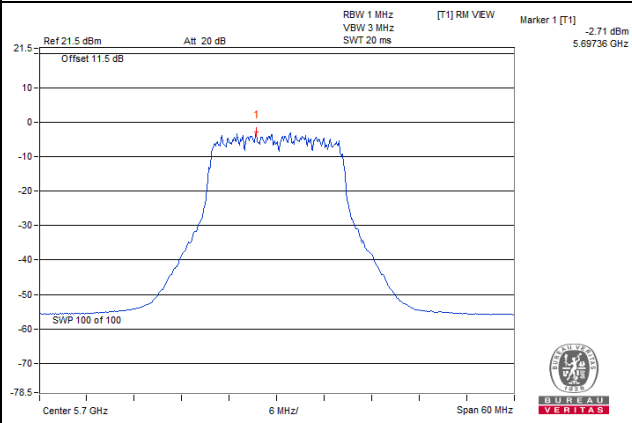
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
54	5270	38.16	38.16	37.92	37.68
62	5310	38.16	37.92	38.16	38.16
102	5510	37.92	37.68	38.16	37.92
110	5550	37.92	37.92	38.16	37.92
134	5670	37.92	37.68	37.92	38.16
142 (U-NII-2C Band)	5710	34.20	33.96	34.20	33.96
142 (U-NII-3 Band)	5710	3.96	3.96	3.72	3.96

802.11ax (HE80)

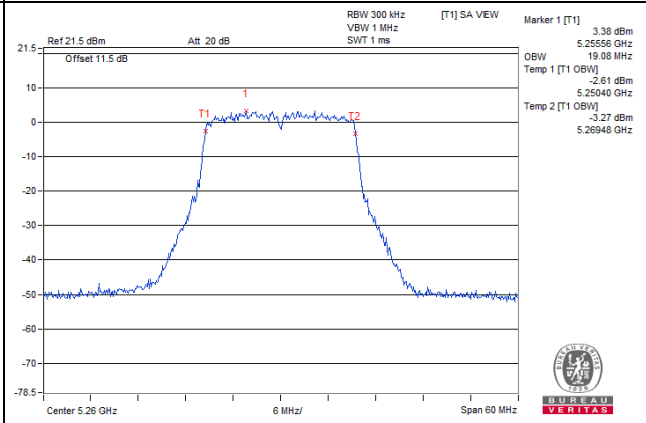
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
58	5290	77.28	77.28	77.28	77.28
106	5530	76.80	77.28	77.28	77.28
122	5610	77.28	77.28	77.28	77.28
138 (U-NII-2C Band)	5690	73.88	73.88	73.88	73.88
138 (U-NII-3 Band)	5690	3.40	3.40	3.40	3.40

Spectrum Plot of Max. Value

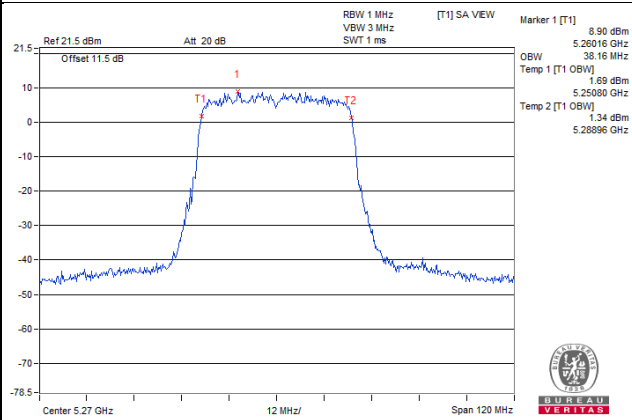
802.11a_Chain 0 / CH140



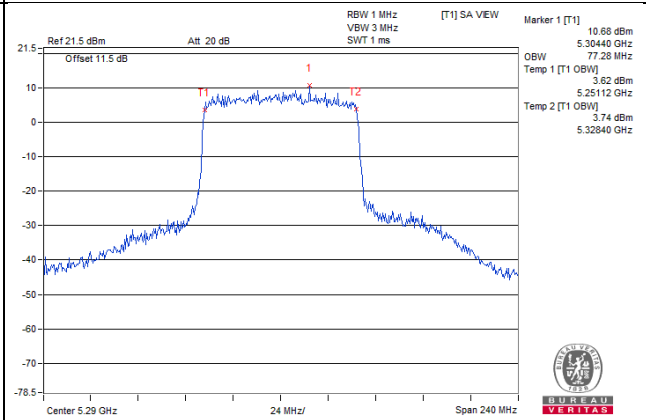
802.11ax (HE20)_Chain 0 / CH52



802.11ax (HE40)_Chain 0 / CH54



802.11ax (HE80)_Chain 0 / CH58



4.4.6 Test Results (Mode 3)

Non-Beamforming Mode

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.44	16.44	16.44	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.56	16.44	16.32	16.56
144 (U-NII-2C Band)	5720	13.28	13.28	13.4	13.28
144 (U-NII-3 Band)	5720	3.16	3.16	3.28	3.16

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	18.96	19.08	18.96	18.96
60	5300	18.96	18.96	18.96	18.96
64	5320	18.96	18.96	18.96	18.96
100	5500	18.96	18.96	18.96	18.96
116	5580	19.08	18.96	18.96	18.96
140	5700	18.96	18.96	18.96	18.96
144 (U-NII-2C Band)	5720	14.60	14.60	14.60	14.60
144 (U-NII-3 Band)	5720	4.36	4.36	4.48	4.36

802.11ax (HE40)

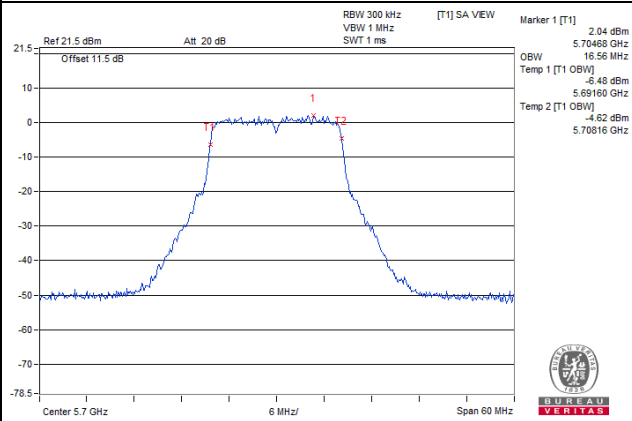
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
54	5270	37.92	37.92	38.16	38.16
62	5310	37.68	37.68	37.92	38.16
102	5510	37.92	37.92	38.16	38.16
110	5550	37.92	37.68	37.92	37.92
134	5670	37.92	37.92	37.68	38.16
142 (U-NII-2C Band)	5710	33.96	33.96	34.20	34.20
142 (U-NII-3 Band)	5710	3.72	3.96	3.72	3.96

802.11ax (HE80)

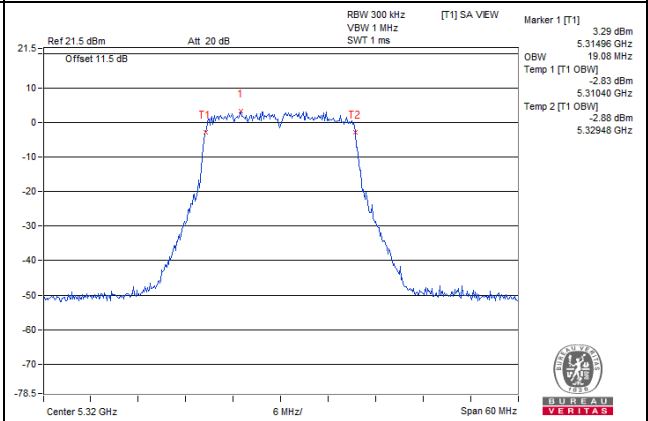
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
58	5290	76.80	77.28	77.28	76.80
106	5530	77.28	77.28	77.28	77.28
122	5610	77.28	77.28	77.28	77.28
138 (U-NII-2C Band)	5690	73.88	73.88	73.88	73.88
138 (U-NII-3 Band)	5690	3.40	3.40	3.40	3.40

Spectrum Plot of Max. Value

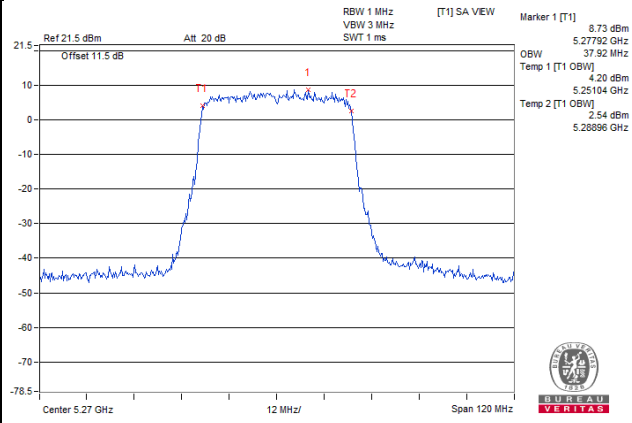
802.11a_Chain 0 / CH140



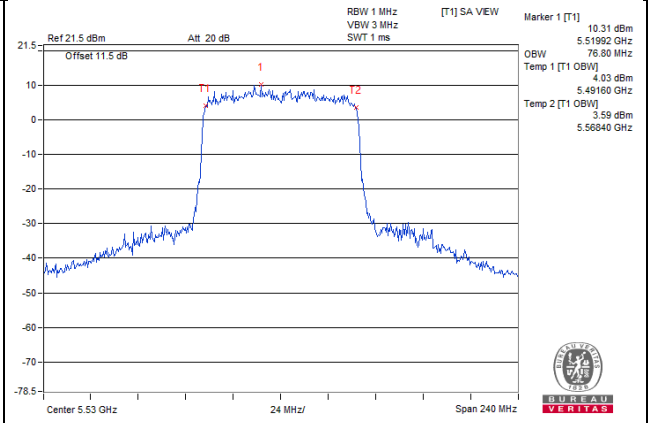
802.11ax (HE20)_Chain 0 / CH116



802.11ax (HE40)_Chain 2 / CH54



802.11ax (HE80)_Chain 0 / CH106



4.4.7 Test Results (Mode 4)

Non-Beamforming Mode

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.44	16.44	16.44	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.68	16.44	16.56	16.44
144 (U-NII-2C Band)	5720	13.28	13.28	13.40	13.28
144 (U-NII-3 Band)	5720	3.16	3.16	3.28	3.16

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
52	5260	19.08	19.08	18.96	18.96
60	5300	18.96	18.96	18.96	18.96
64	5320	18.96	19.08	18.96	19.08
100	5500	19.08	19.08	19.08	18.96
116	5580	19.08	18.96	19.08	19.08
140	5700	18.96	19.08	18.84	18.96
144 (U-NII-2C Band)	5720	14.60	14.48	14.48	14.60
144 (U-NII-3 Band)	5720	4.36	4.24	4.36	4.36

802.11ax (HE40)

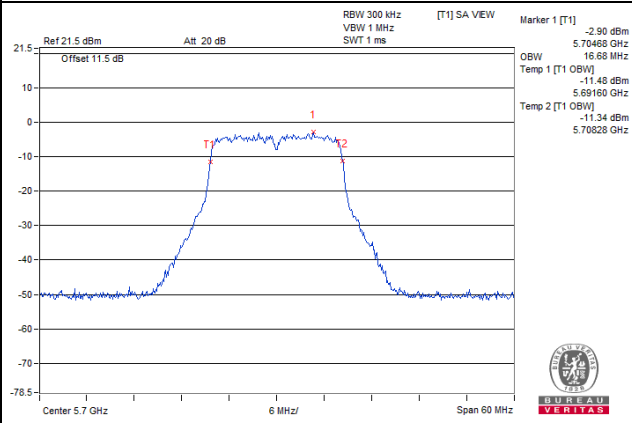
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
54	5270	37.92	38.16	37.92	37.92
62	5310	38.16	38.16	38.16	38.16
102	5510	37.92	37.68	38.16	37.92
110	5550	38.16	37.92	38.16	37.92
134	5670	37.68	37.68	37.68	38.16
142 (U-NII-2C Band)	5710	34.20	34.20	33.96	33.96
142 (U-NII-3 Band)	5710	3.72	3.96	3.96	3.72

802.11ax (HE80)

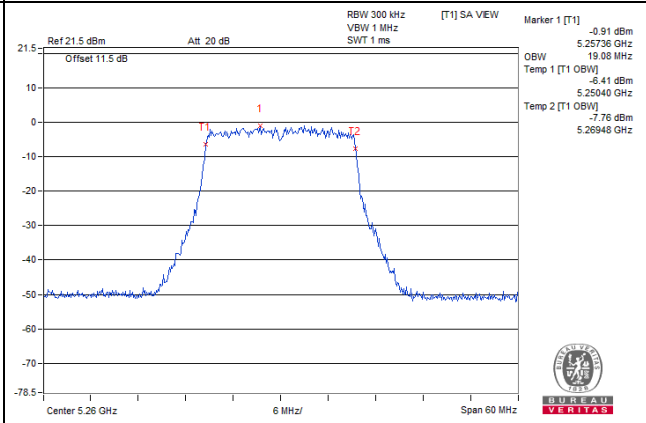
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain0	Chain1	Chain2	Chain3
58	5290	77.28	77.28	77.28	77.28
106	5530	77.28	77.28	77.28	77.28
122	5610	77.28	77.28	77.28	77.28
138 (U-NII-2C Band)	5690	73.88	73.88	73.88	73.88
138 (U-NII-3 Band)	5690	3.4	3.4	3.4	3.4

Spectrum Plot of Max. Value

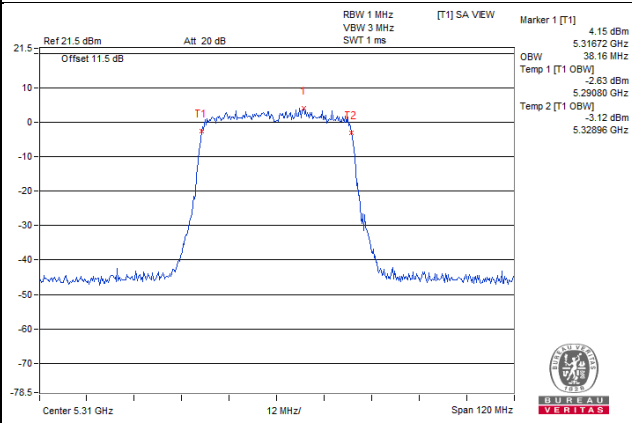
802.11a_Chain 0 / CH140



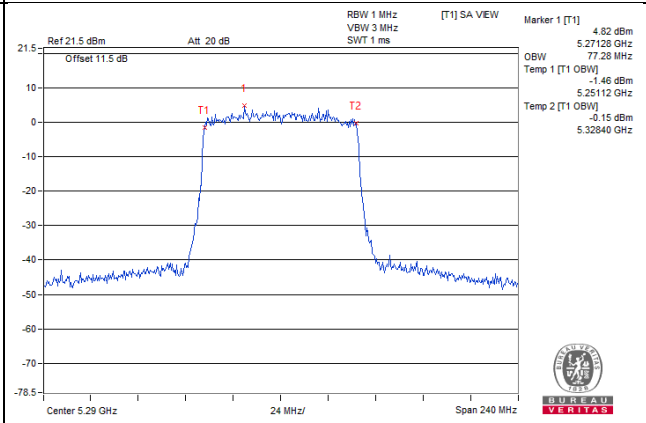
802.11ax (HE20)_Chain 0 / CH52



802.11ax (HE40)_Chain 0 / CH62



802.11ax (HE80)_Chain 0 / CH58

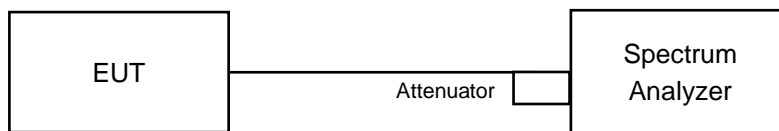


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Client device	11dBm/ MHz
U-NII-2A		√	11dBm/ MHz
U-NII-2C		√	11dBm/ MHz
U-NII-3		√	30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

For U-NII-2A, U-NII-2C band:

Using method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value and add 10 log (1/duty cycle)

For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500\text{kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results (Mode 1)

Non-Beamforming Mode

For U-NII-2A, U-NII-2C:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
52	5260	-9.86	-10.02	-9.58	-9.80	0.35	-3.44	-2.02	Pass
60	5300	-11.64	-10.13	-9.32	-9.53	0.35	-3.70	-2.02	Pass
64	5320	-8.89	-10.85	-9.52	-8.84	0.35	-3.08	-2.02	Pass
100	5500	-12.26	-8.86	-8.54	-10.30	0.35	-3.39	-2.02	Pass
116	5580	-9.52	-10.66	-8.57	-9.55	0.35	-3.14	-2.02	Pass
140	5700	-10.93	-9.11	-9.78	-9.85	0.35	-3.50	-2.02	Pass
144 (U-NII-2C)	5720	-9.41	-9.22	-10.24	-11.17	0.35	-3.57	-2.02	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(19.02-6) = -2.02$ dBm.
3. For U-NII-2C: The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(19.02-6) = -2.02$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
52	5260	-9.13	-9.32	-9.94	-12.60	0.18	-3.85	-2.02	Pass
60	5300	-10.36	-10.03	-11.04	-9.49	0.18	-3.99	-2.02	Pass
64	5320	-9.81	-10.20	-13.34	-9.36	0.18	-4.23	-2.02	Pass
100	5500	-10.14	-11.70	-10.23	-9.14	0.18	-4.01	-2.02	Pass
116	5580	-8.60	-8.99	-10.46	-10.05	0.18	-3.26	-2.02	Pass
140	5700	-11.04	-11.05	-9.64	-9.02	0.18	-3.90	-2.02	Pass
144 (U-NII-2C)	5720	-10.33	-11.40	-11.03	-8.71	0.18	-4.04	-2.02	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(19.02-6) = -2.02$ dBm.
3. For U-NII-2C: The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(19.02-6) = -2.02$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
54	5270	-9.05	-10.22	-10.29	-10.45	0.24	-3.70	-2.02	Pass
62	5310	-10.56	-9.90	-9.34	-10.91	0.24	-3.87	-2.02	Pass
102	5510	-12.82	-10.24	-9.42	-9.88	0.24	-4.15	-2.02	Pass
110	5550	-12.02	-8.79	-10.73	-9.63	0.24	-3.87	-2.02	Pass
134	5670	-13.01	-11.53	-8.75	-8.86	0.24	-3.92	-2.02	Pass
142 (U-NII-2C)	5710	-9.69	-9.67	-9.26	-8.56	0.24	-3.01	-2.02	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(19.02-6) = -2.02$ dBm.
3. For U-NII-2C: The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(19.02-6) = -2.02$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

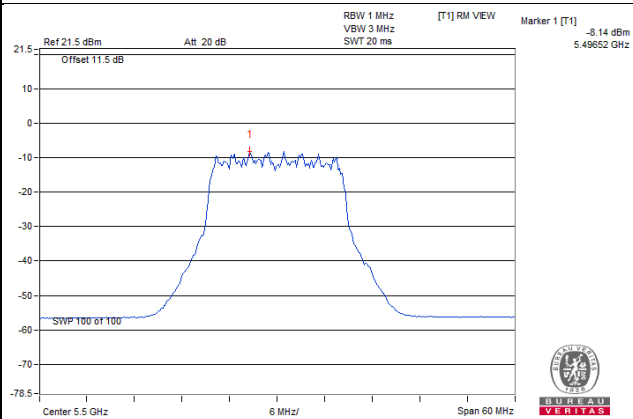
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
58	5290	-8.93	-10.00	-8.49	-9.48	0.19	-2.98	-2.02	Pass
106	5530	-9.40	-8.69	-9.67	-8.45	0.19	-2.81	-2.02	Pass
122	5610	-9.17	-8.99	-8.77	-8.64	0.19	-2.68	-2.02	Pass
138 (U-NII-2C)	5690	-10.58	-11.57	-10.33	-8.40	0.19	-3.85	-2.02	Pass

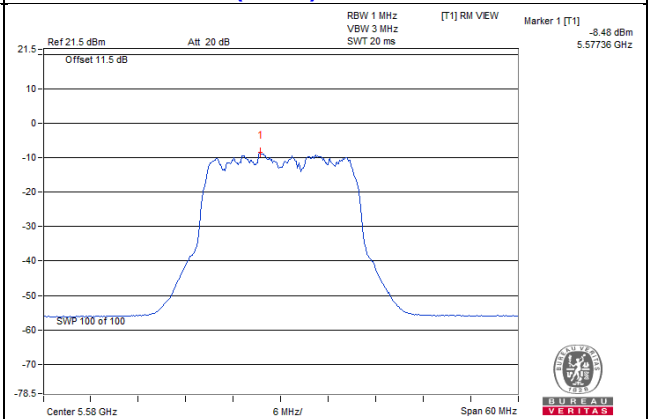
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(19.02-6) = -2.02$ dBm.
3. For U-NII-2C: The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(19.02-6) = -2.02$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

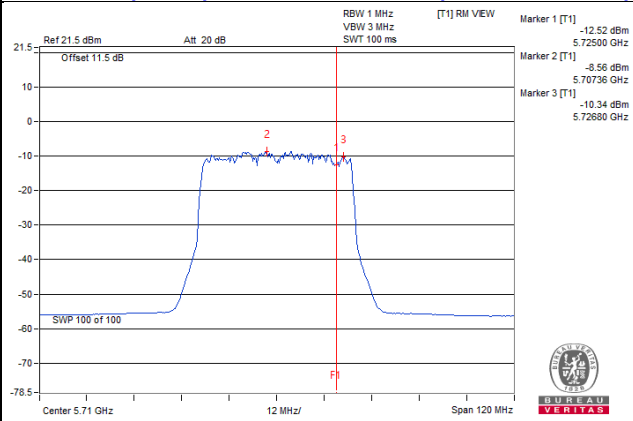
802.11a_Chain 2 / CH100



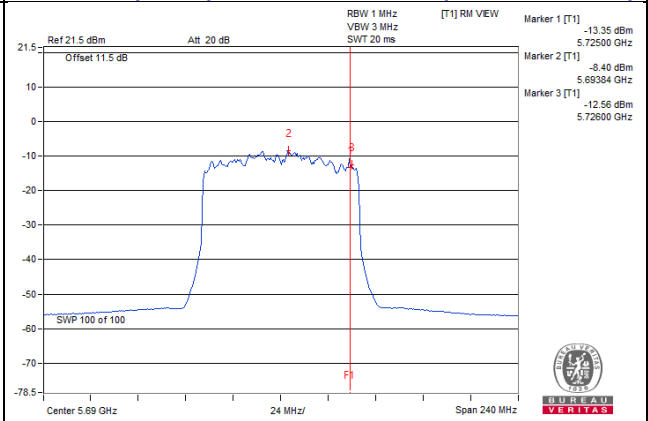
802.11ax (HE20)_Chain 0 / CH116



802.11ax (HE40)_Chain 3 / CH142 (U-NII-2C Band)



802.11ax (HE80)_Chain 3 / CH138 (U-NII-2C Band)



For U-NII-3:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
144 (U-NII-3)	5720	-19.55	-19.41	-19.10	-19.56	0.35	-13.03	-10.81	16.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(19.02-6) = 16.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
144 (U-NII-3)	5720	-20.28	-20.18	-19.84	-19.69	0.18	-13.79	-11.57	16.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(19.02-6) = 16.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
142 (U-NII-3)	5710	-19.28	-20.12	-19.03	-19.23	0.24	-13.13	-10.91	16.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(19.02-6) = 16.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

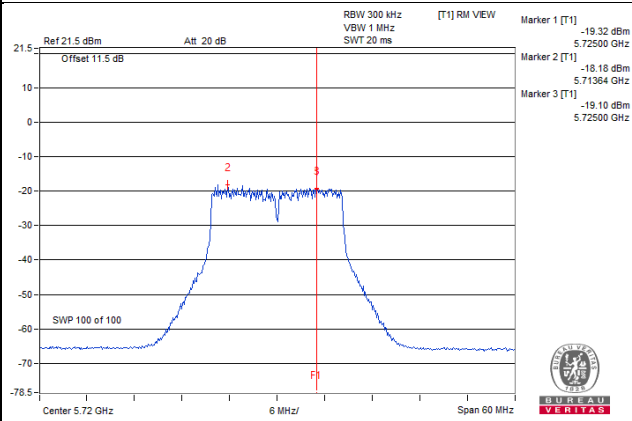
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
138 (U-NII-3)	5690	-20.81	-21.04	-20.48	-21.19	0.19	-14.66	-12.44	16.98	Pass

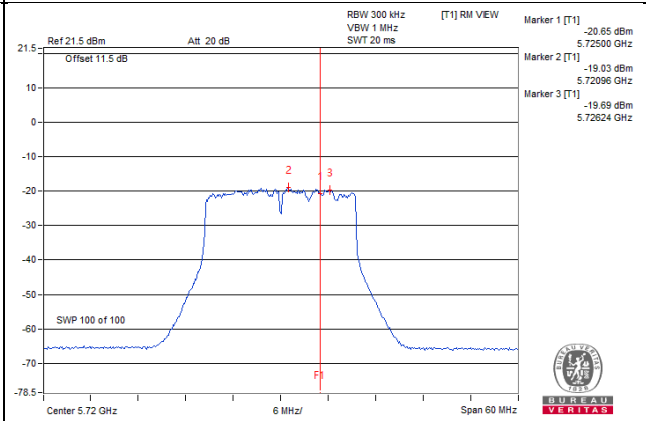
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 19.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(19.02-6) = 16.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

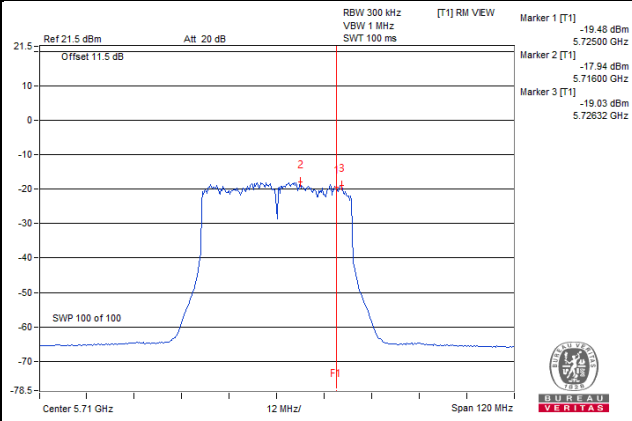
802.11a_Chain 2 / CH144 (U-NII-3 Band)



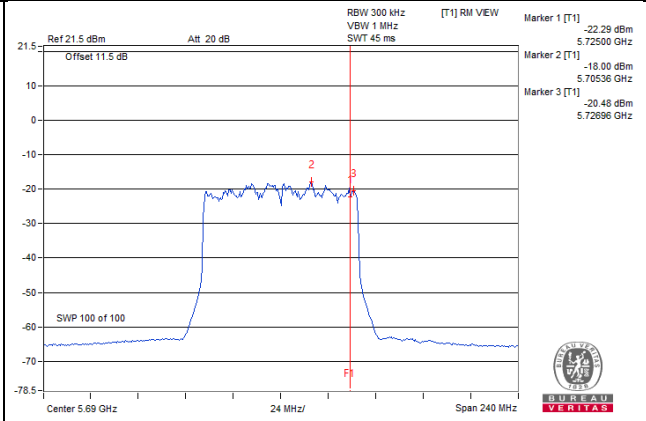
802.11ax (HE20)_Chain 3 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 2 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 2 / CH138 (U-NII-3 Band)



4.5.8 Test Results (Mode 2)

Non-Beamforming Mode

For U-NII-2A, U-NII-2C:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
52	5260	-3.92	-4.38	-4.11	-3.25	0.35	2.48	3.98	Pass
60	5300	-4.40	-3.04	-4.54	-4.05	0.35	2.40	3.98	Pass
64	5320	-3.89	-4.53	-3.43	-3.51	0.35	2.55	3.98	Pass
100	5500	-4.98	-4.45	-2.75	-3.97	0.35	2.41	3.98	Pass
116	5580	-4.25	-6.04	-2.46	-4.43	0.35	2.26	3.98	Pass
140	5700	-3.94	-3.11	-4.79	-4.99	0.35	2.23	3.98	Pass
144 (U-NII-2C)	5720	-4.54	-3.92	-3.72	-3.36	0.35	2.51	3.98	Pass

- Note:
- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
 - For U-NII-2A: The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(13.02-6) = 3.98$ dBm.
 - For U-NII-2C: The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(13.02-6) = 3.98$ dBm.
 - Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
52	5260	-4.92	-5.54	-3.62	-3.46	0.18	1.90	3.98	Pass
60	5300	-4.91	-3.99	-4.83	-3.80	0.18	1.85	3.98	Pass
64	5320	-6.16	-3.91	-5.45	-4.68	0.18	1.23	3.98	Pass
100	5500	-3.49	-4.74	-4.03	-4.89	0.18	1.95	3.98	Pass
116	5580	-4.33	-5.51	-3.27	-5.70	0.18	1.61	3.98	Pass
140	5700	-4.28	-5.03	-6.46	-3.26	0.18	1.60	3.98	Pass
144 (U-NII-2C)	5720	-3.95	-4.40	-4.37	-5.08	0.18	1.77	3.98	Pass

- Note:
- Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
 - For U-NII-2A: The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(13.02-6) = 3.98$ dBm.
 - For U-NII-2C: The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(13.02-6) = 3.98$ dBm.
 - Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
54	5270	-3.47	-3.53	-3.71	-3.48	0.24	2.71	3.98	Pass
62	5310	-5.30	-4.17	-3.48	-5.33	0.24	1.76	3.98	Pass
102	5510	-5.69	-3.94	-3.70	-4.68	0.24	1.82	3.98	Pass
110	5550	-4.78	-3.88	-3.14	-4.11	0.24	2.32	3.98	Pass
134	5670	-3.55	-5.11	-3.80	-3.80	0.24	2.24	3.98	Pass
142 (U-NII-2C)	5710	-4.17	-2.25	-3.32	-3.25	0.24	3.07	3.98	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(13.02-6) = 3.98$ dBm.
3. For U-NII-2C: The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(13.02-6) = 3.98$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

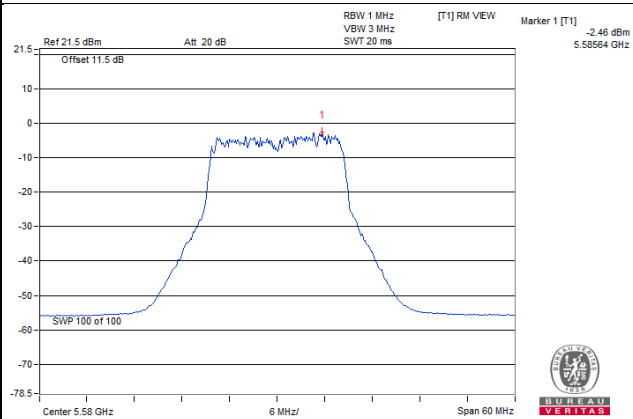
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
58	5290	-3.54	-4.12	-2.77	-3.53	0.19	2.75	3.98	Pass
106	5530	-3.12	-2.48	-3.75	-3.11	0.19	3.12	3.98	Pass
122	5610	-3.60	-2.86	-3.50	-2.56	0.19	3.10	3.98	Pass
138 (U-NII-2C)	5690	-3.47	-4.17	-4.39	-5.06	0.19	1.98	3.98	Pass

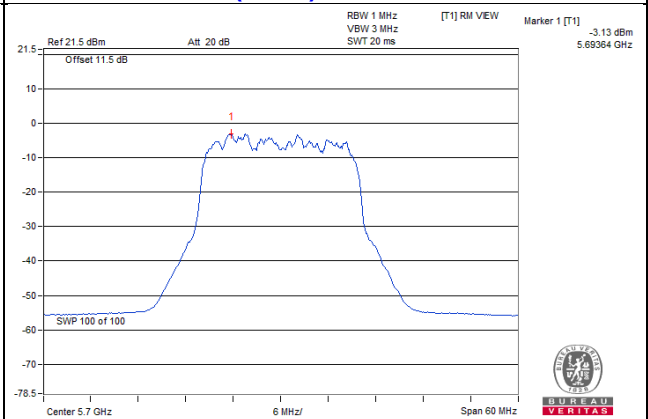
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(13.02-6) = 3.98$ dBm.
3. For U-NII-2C: The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(13.02-6) = 3.98$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

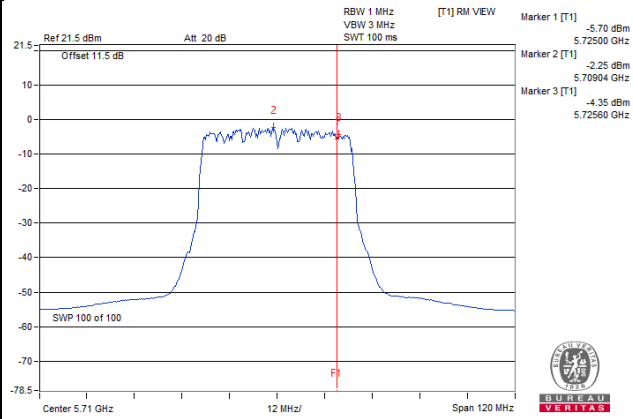
802.11a_Chain 2 / CH116



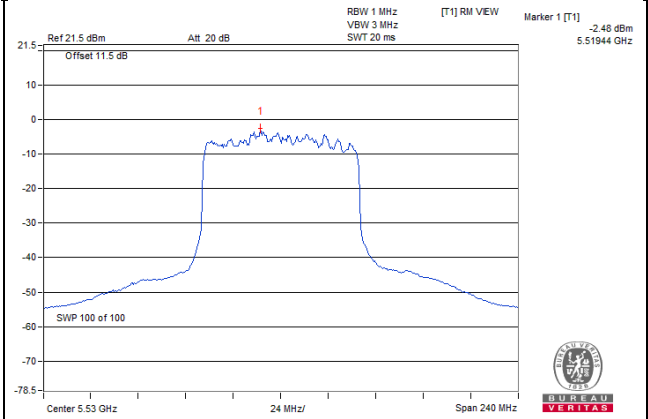
802.11ax (HE20)_Chain 3 / CH140



802.11ax (HE40)_Chain 1 / CH142 (U-NII-2C Band)



802.11ax (HE80)_Chain 1 / CH106



For U-NII-3:
802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
144 (U-NII-3)	5720	-11.91	-11.90	-12.32	-12.93	0.35	-5.87	-3.65	22.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(13.02-6) = 22.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
144 (U-NII-3)	5720	-14.44	-13.54	-14.33	-12.97	0.18	-7.58	-5.36	22.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(13.02-6) = 22.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
142 (U-NII-3)	5710	-13.58	-13.67	-12.47	-12.90	0.24	-6.87	-4.65	22.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(13.02-6) = 22.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

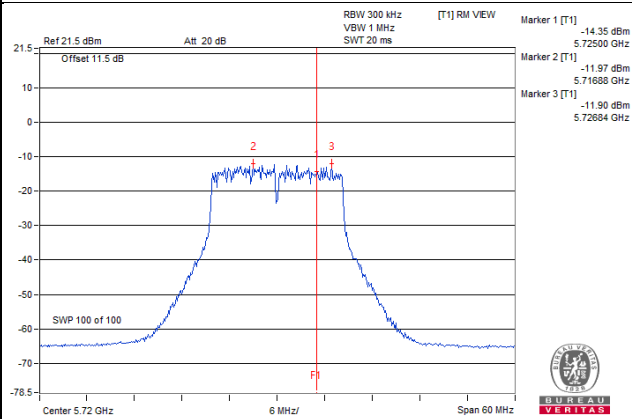
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
138 (U-NII-3)	5690	-15.23	-14.25	-14.36	-16.32	0.19	-8.75	-6.53	22.98	Pass

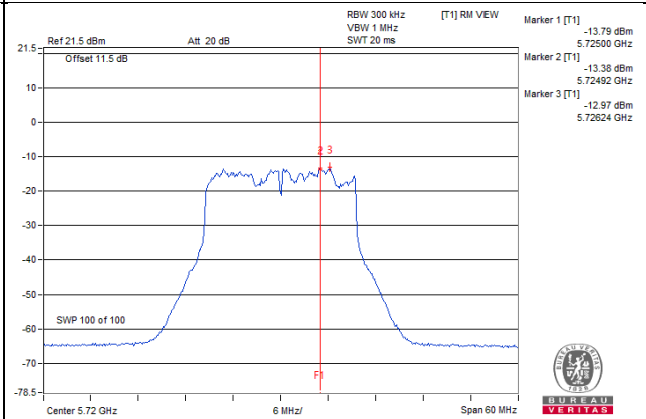
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 13.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(13.02-6) = 22.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

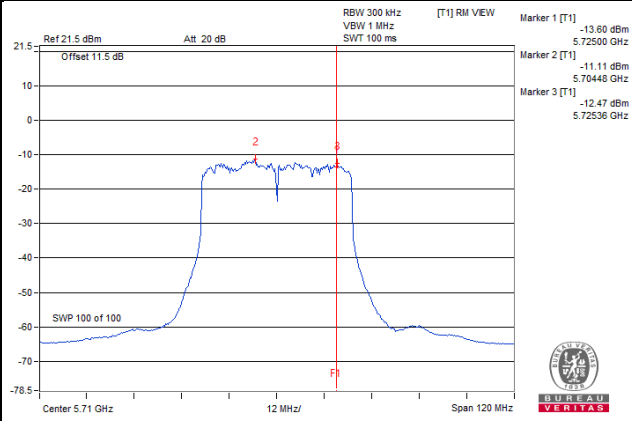
802.11a_Chain 1 / CH144 (U-NII-3 Band)



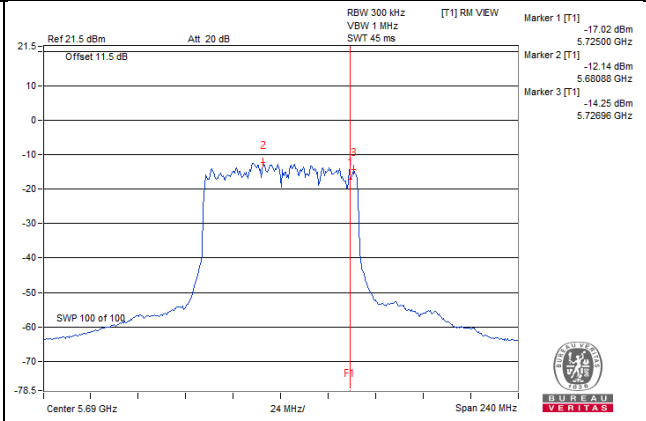
802.11ax (HE20)_Chain 3 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 2 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 1 / CH138 (U-NII-3 Band)



4.5.9 Test Results (Mode 3)

Non-Beamforming Mode

For U-NII-2A, U-NII-2C:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
52	5260	-2.02	-3.09	-3.97	-5.09	0.35	2.97	4.48	Pass
60	5300	-3.20	-3.74	-3.50	-4.09	0.35	2.75	4.48	Pass
64	5320	-2.53	-2.72	-4.83	-3.87	0.35	2.98	4.48	Pass
100	5500	-5.11	-4.92	-2.64	-3.37	0.35	2.49	4.48	Pass
116	5580	-2.90	-5.42	-2.19	-4.95	0.35	2.71	4.48	Pass
140	5700	-4.91	-3.28	-1.84	-4.96	0.35	2.82	4.48	Pass
144 (U-NII-2C)	5720	-4.30	-4.42	-3.49	-2.98	0.35	2.61	4.48	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $11-(12.52-6) = 4.48$ dBm.
3. For U-NII-2C: The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $11-(12.52-6) = 4.48$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
52	5260	-4.98	-3.37	-3.25	-4.41	0.18	2.26	4.48	Pass
60	5300	-4.20	-3.81	-5.08	-4.46	0.18	1.84	4.48	Pass
64	5320	-4.42	-3.83	-3.38	-5.05	0.18	2.08	4.48	Pass
100	5500	-3.70	-3.13	-4.76	-2.86	0.18	2.65	4.48	Pass
116	5580	-3.99	-3.05	-3.71	-5.82	0.18	2.17	4.48	Pass
140	5700	-4.29	-3.67	-3.79	-5.37	0.18	1.97	4.48	Pass
144 (U-NII-2C)	5720	-3.33	-4.15	-3.31	-5.86	0.18	2.15	4.48	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $11-(12.52-6) = 4.48$ dBm.
3. For U-NII-2C: The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $11-(12.52-6) = 4.48$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
54	5270	-3.22	-3.69	-2.53	-3.12	0.24	3.14	4.48	Pass
62	5310	-3.45	-4.18	-3.56	-4.18	0.24	2.43	4.48	Pass
102	5510	-4.41	-5.47	-2.77	-3.31	0.24	2.39	4.48	Pass
110	5550	-6.00	-3.31	-3.97	-1.93	0.24	2.69	4.48	Pass
134	5670	-4.46	-3.05	-3.75	-3.81	0.24	2.52	4.48	Pass
142 (U-NII-2C)	5710	-3.37	-2.01	-3.60	-3.27	0.24	3.24	4.48	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $11-(12.52-6) = 4.48$ dBm.
3. For U-NII-2C: The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $11-(12.52-6) = 4.48$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

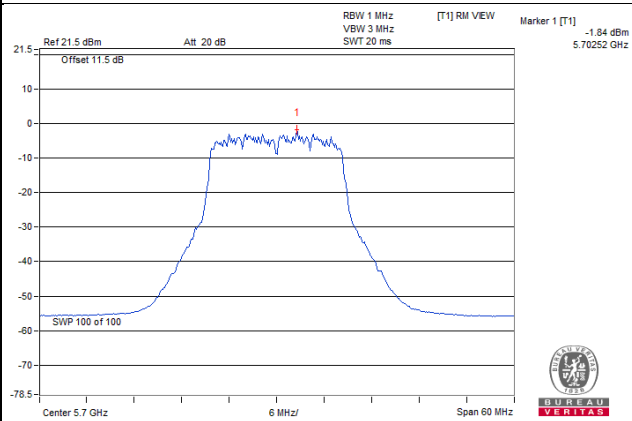
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
58	5290	-4.49	-4.66	-4.12	-4.36	0.19	1.81	4.48	Pass
106	5530	-3.83	-3.23	-4.81	-3.35	0.19	2.45	4.48	Pass
122	5610	-3.61	-3.43	-3.26	-3.31	0.19	2.81	4.48	Pass
138 (U-NII-2C)	5690	-4.13	-4.18	-4.38	-4.12	0.19	2.01	4.48	Pass

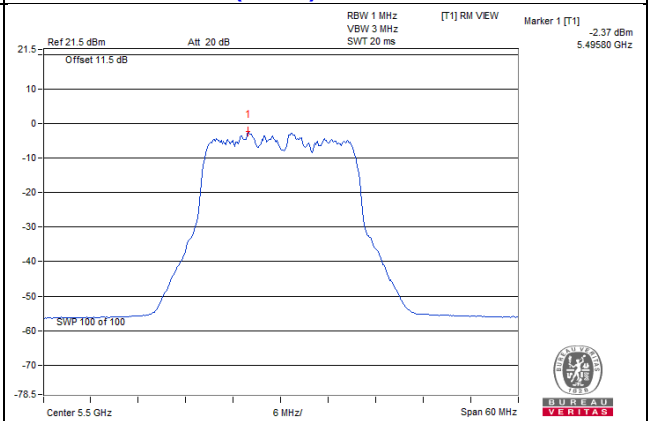
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $11-(12.52-6) = 4.48$ dBm.
3. For U-NII-2C: The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $11-(12.52-6) = 4.48$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

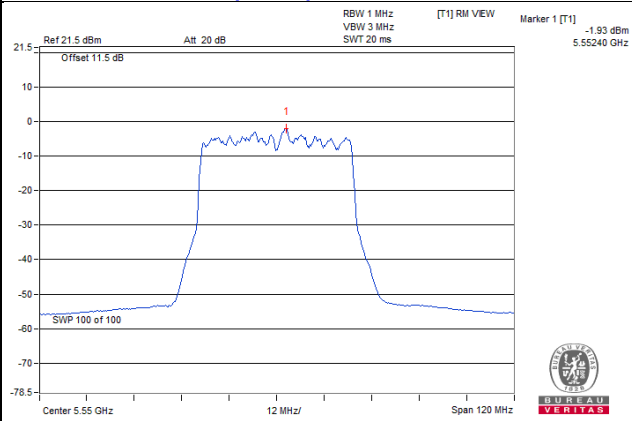
802.11a_Chain 2 / CH140



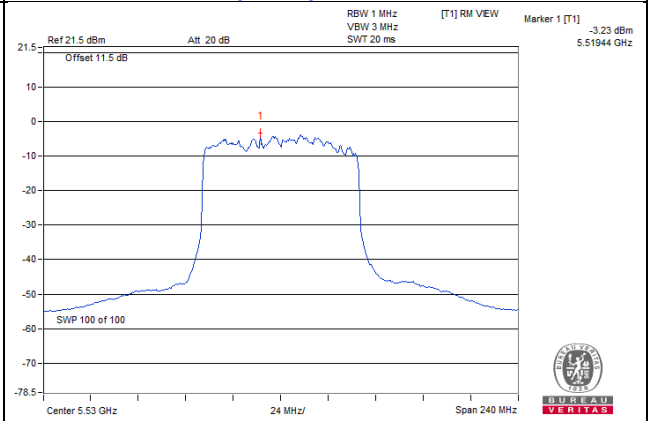
802.11ax (HE20)_Chain 3 / CH100



802.11ax (HE40)_Chain 3 / CH110



802.11ax (HE80)_Chain 1 / CH106



For U-NII-3:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
144 (U-NII-3)	5720	-13.73	-12.00	-12.23	-11.41	0.35	-5.89	-3.67	23.48	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $30-(12.52-6) = 23.48$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
144 (U-NII-3)	5720	-13.73	-12.89	-14.48	-13.92	0.18	-7.52	-5.30	23.48	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $30-(12.52-6) = 23.48$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
142 (U-NII-3)	5710	-13.93	-12.36	-12.78	-12.43	0.24	-6.57	-4.35	23.48	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $30-(12.52-6) = 23.48$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

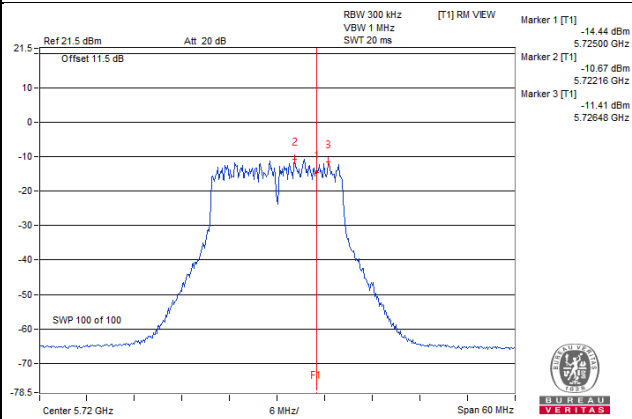
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
138 (U-NII-3)	5690	-15.11	-14.82	-15.61	-15.15	0.19	-8.95	-6.73	23.48	Pass

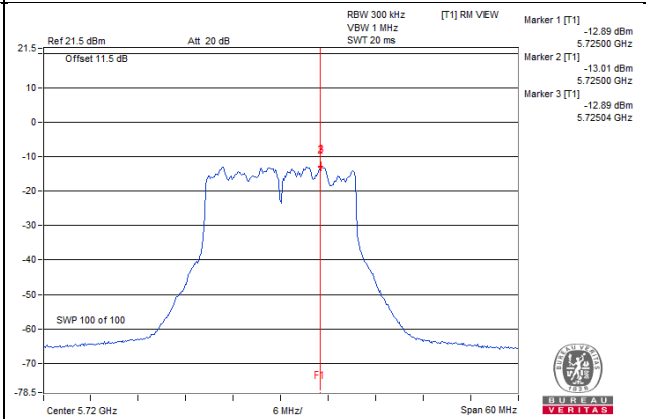
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 12.52 dBi > 6dBi, so the power density limit shall be reduced to $30-(12.52-6) = 23.48$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

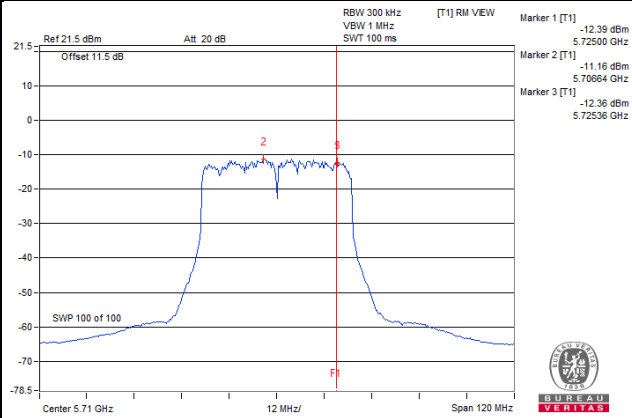
802.11a_Chain 3 / CH144 (U-NII-3 Band)



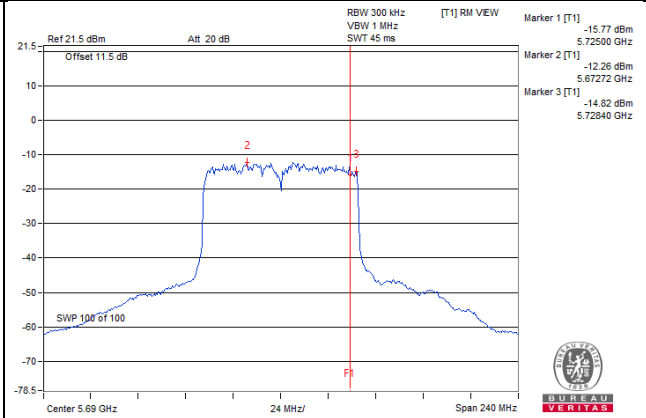
802.11ax (HE20)_Chain 1 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 1 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 1 / CH138 (U-NII-3 Band)



4.5.10 Test Results (Mode 4)

Non-Beamforming Mode

For U-NII-2A, U-NII-2C:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
52	5260	-7.99	-9.30	-9.43	-8.24	0.35	-2.32	-1.02	Pass
60	5300	-9.32	-7.55	-8.78	-7.55	0.35	-1.86	-1.02	Pass
64	5320	-7.74	-9.09	-9.11	-8.39	0.35	-2.17	-1.02	Pass
100	5500	-7.81	-9.21	-7.28	-11.03	0.35	-2.23	-1.02	Pass
116	5580	-8.70	-7.77	-8.52	-9.50	0.35	-2.21	-1.02	Pass
140	5700	-8.55	-8.89	-9.98	-8.50	0.35	-2.57	-1.02	Pass
144 (U-NII-2C)	5720	-9.00	-8.93	-9.94	-9.82	0.35	-3.03	-1.02	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(18.02-6) = -1.02$ dBm.
3. For U-NII-2C: The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(18.02-6) = -1.02$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
52	5260	-8.97	-11.15	-9.40	-8.70	0.18	-3.26	-1.02	Pass
60	5300	-8.11	-10.38	-10.12	-9.00	0.18	-3.11	-1.02	Pass
64	5320	-8.29	-9.32	-8.59	-8.29	0.18	-2.40	-1.02	Pass
100	5500	-8.39	-12.56	-9.44	-8.74	0.18	-3.31	-1.02	Pass
116	5580	-9.09	-7.81	-8.69	-9.30	0.18	-2.48	-1.02	Pass
140	5700	-9.92	-8.13	-10.77	-9.34	0.18	-3.23	-1.02	Pass
144 (U-NII-2C)	5720	-8.89	-11.78	-7.58	-9.13	0.18	-2.90	-1.02	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(18.02-6) = -1.02$ dBm.
3. For U-NII-2C: The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(18.02-6) = -1.02$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
54	5270	-9.21	-8.51	-8.65	-9.30	0.24	-2.64	-1.02	Pass
62	5310	-10.70	-9.03	-9.45	-7.54	0.24	-2.77	-1.02	Pass
102	5510	-10.98	-9.22	-8.14	-8.18	0.24	-2.73	-1.02	Pass
110	5550	-10.67	-7.82	-8.56	-8.01	0.24	-2.37	-1.02	Pass
134	5670	-8.14	-8.32	-11.52	-9.23	0.24	-2.85	-1.02	Pass
142 (U-NII-2C)	5710	-8.48	-6.77	-7.97	-7.97	0.24	-1.49	-1.02	Pass

- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(18.02-6) = -1.02$ dBm.
3. For U-NII-2C: The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(18.02-6) = -1.02$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

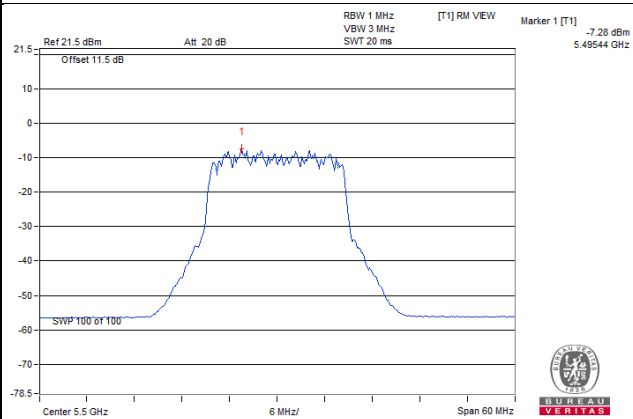
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3				
58	5290	-8.61	-8.81	-5.02	-7.76	0.19	-1.05	-1.02	Pass
106	5530	-8.24	-8.59	-5.48	-7.73	0.19	-1.12	-1.02	Pass
122	5610	-9.48	-9.30	-4.16	-8.60	0.19	-1.05	-1.02	Pass
138 (U-NII-2C)	5690	-9.35	-8.66	-8.68	-8.59	0.19	-2.60	-1.02	Pass

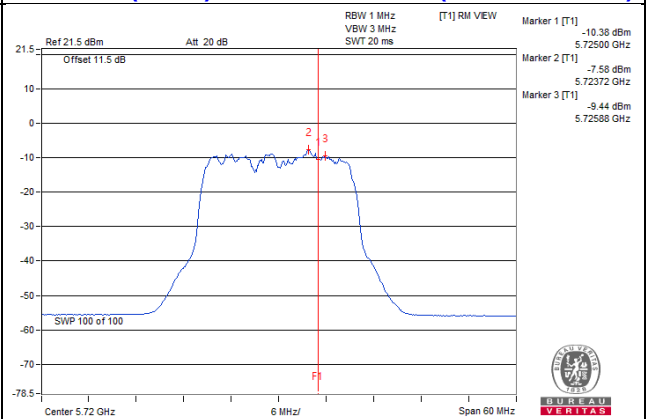
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. For U-NII-2A: The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(18.02-6) = -1.02$ dBm.
3. For U-NII-2C: The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $11-(18.02-6) = -1.02$ dBm.
4. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

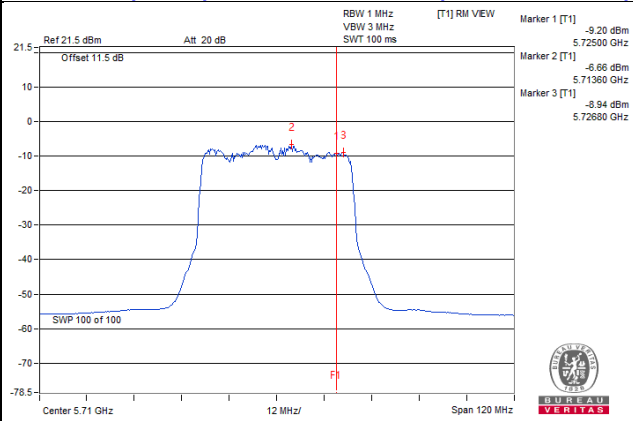
802.11a_Chain 2 / CH100



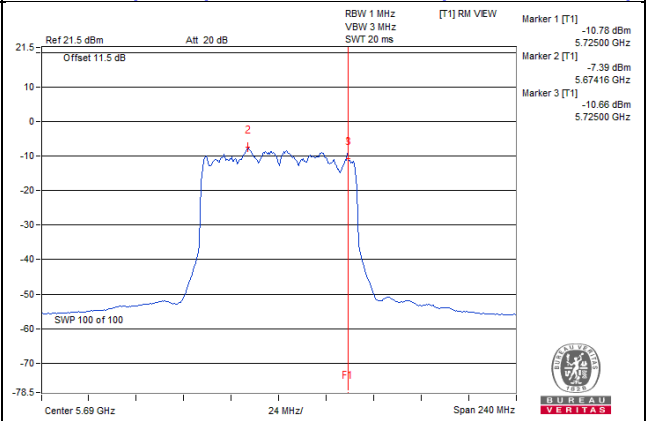
802.11ax (HE20)_Chain 2 / CH144 (U-NII-2C Band)



802.11ax (HE40)_Chain 1 / CH142 (U-NII-2C Band)



802.11ax (HE80)_Chain 2 / CH122 (U-NII-2C Band)



For U-NII-3:

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
144 (U-NII-3)	5720	-18.69	-17.44	-18.08	-18.26	0.35	-11.72	-9.50	17.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(18.02-6) = 17.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
144 (U-NII-3)	5720	-17.82	-17.81	-18.03	-18.34	0.18	-11.79	-9.57	17.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(18.02-6) = 17.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
142 (U-NII-3)	5710	-19.10	-17.09	-18.64	-18.95	0.24	-12.11	-9.89	17.98	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(18.02-6) = 17.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

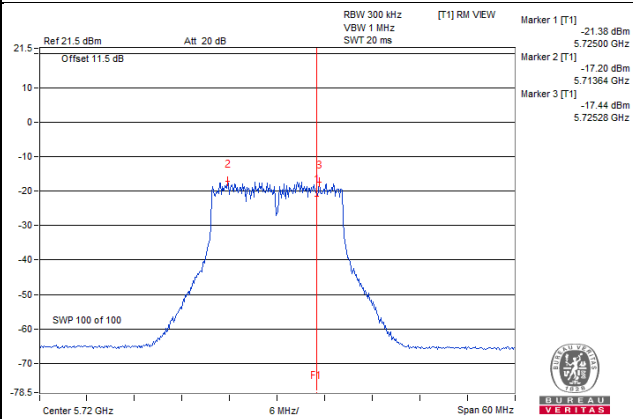
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3					
138 (U-NII-3)	5690	-19.58	-21.19	-19.74	-19.79	0.19	-13.82	-11.60	17.98	Pass

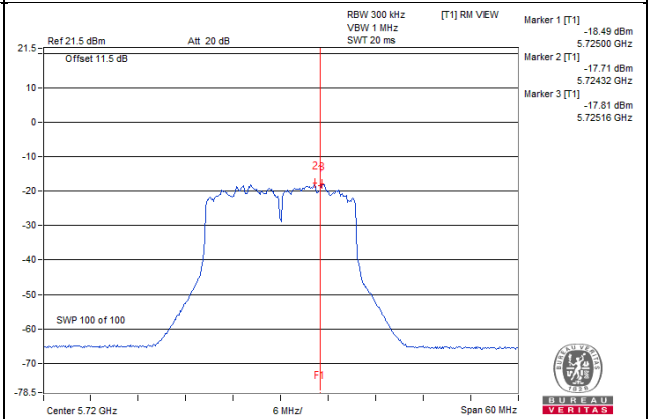
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain is 18.02 dBi > 6dBi, so the power density limit shall be reduced to $30-(18.02-6) = 17.98$ dBm.
 3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

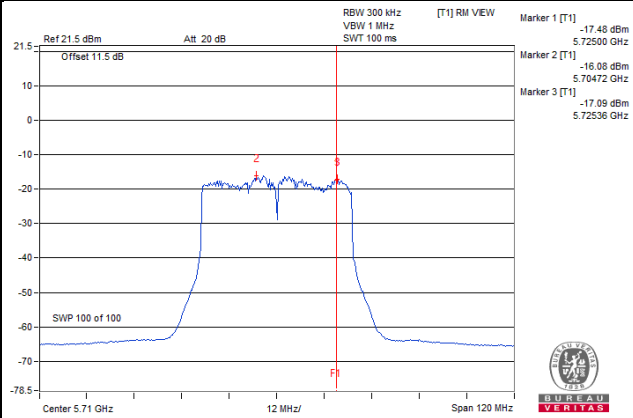
802.11a_Chain 1 / CH144 (U-NII-3 Band)



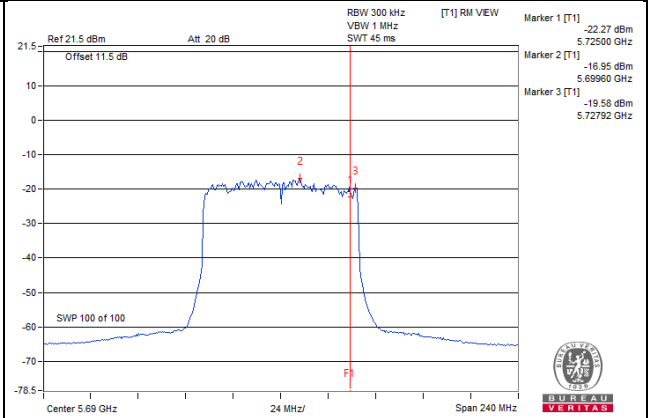
802.11ax (HE20)_Chain 1 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 1 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)

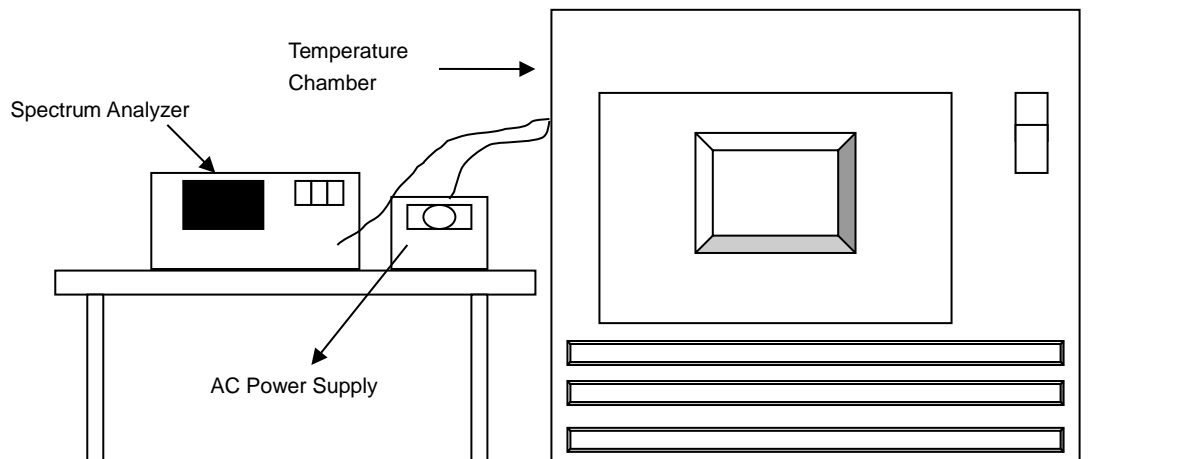


4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5260 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
55	120	5259.9826	Pass	5259.9794	Pass	5259.9782	Pass	5259.9816	Pass
50	120	5260.0189	Pass	5260.0171	Pass	5260.0179	Pass	5260.0187	Pass
40	120	5259.9898	Pass	5259.9913	Pass	5259.9912	Pass	5259.9899	Pass
30	120	5259.9837	Pass	5259.9863	Pass	5259.9878	Pass	5259.9842	Pass
20	120	5260.0011	Pass	5260.0052	Pass	5260.0057	Pass	5260.0057	Pass
10	120	5260.023	Pass	5260.0273	Pass	5260.0275	Pass	5260.0239	Pass
0	120	5259.9812	Pass	5259.9812	Pass	5259.9826	Pass	5259.9858	Pass
-10	120	5259.9865	Pass	5259.9888	Pass	5259.9842	Pass	5259.9882	Pass
-20	120	5260.0138	Pass	5260.0183	Pass	5260.0175	Pass	5260.0165	Pass
-30	120	5260.0247	Pass	5260.0252	Pass	5260.0205	Pass	5260.0229	Pass
-40	120	5260.0242	Pass	5260.0225	Pass	5260.0221	Pass	5260.0248	Pass

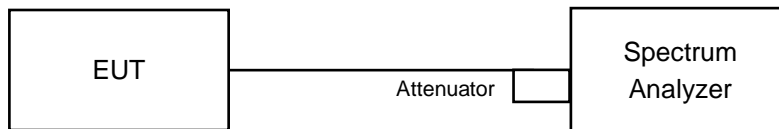
Frequency Stability Versus Voltage									
Operating Frequency: 5260 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5260.0013	PASS	5260.0043	PASS	5260.0065	PASS	5260.0058	PASS
	120	5260.0011	PASS	5260.0052	PASS	5260.0057	PASS	5260.0057	PASS
	102	5260.0008	PASS	5260.0061	PASS	5260.0046	PASS	5260.0057	PASS

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.7 Test Results (Mode 1)

Non-Beamforming Mode
802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
144 (U-NII-3)	5720	2.56	2.78	3.1	2.85	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
144 (U-NII-3)	5720	4.25	4.23	3.8	4.11	0.5	Pass

802.11ax (HE40)

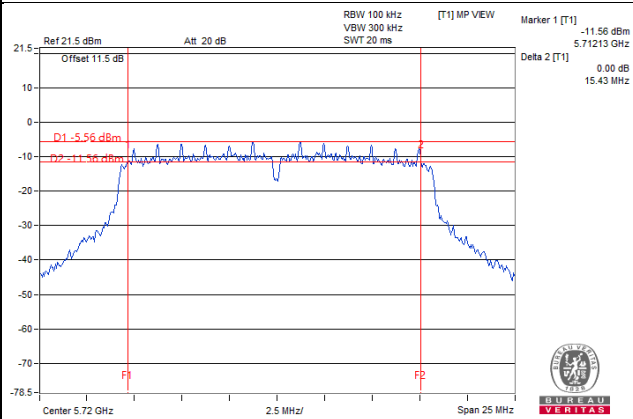
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
142 (U-NII-3)	5710	3.61	3.72	3.52	4	0.5	Pass

802.11ax (HE80)

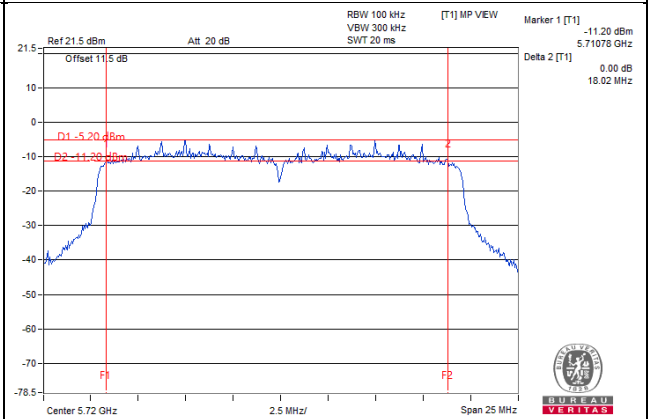
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
138 (U-NII-3)	5690	1.68	2.72	2.77	2.69	0.5	Pass

Spectrum Plot of Worst Value

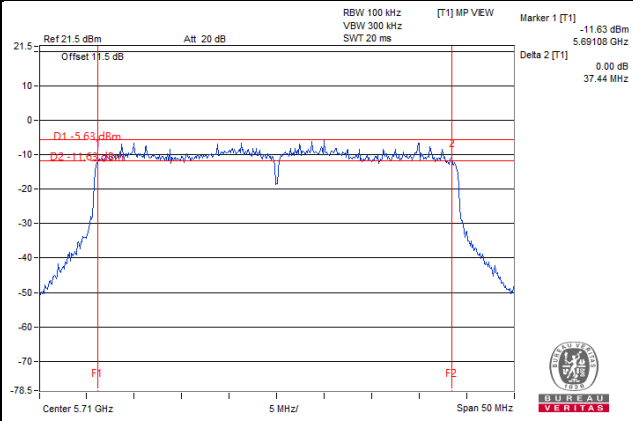
802.11a_Chain 0 / CH144 (U-NII-3 Band)



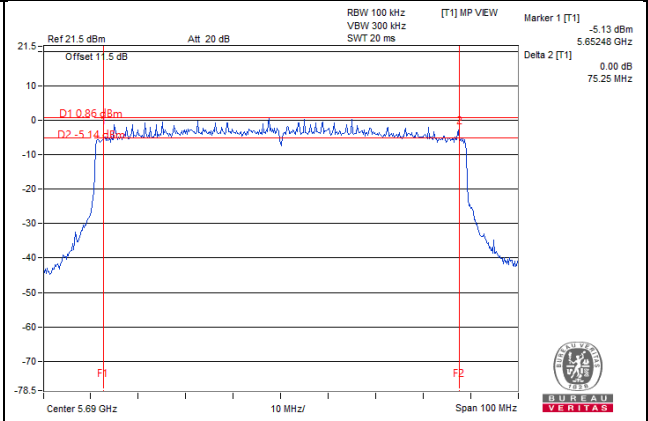
802.11ax (HE20)_Chain 2 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 2 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

4.7.8 Test Results (Mode 2)

Non-Beamforming Mode
802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
144 (U-NII-3)	5720	2.56	2.85	3.14	3.10	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
144 (U-NII-3)	5720	4.30	4.26	3.76	4.35	0.5	Pass

802.11ax (HE40)

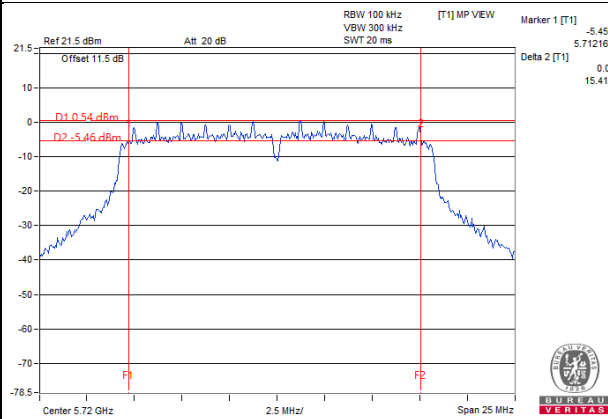
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
142 (U-NII-3)	5710	4.00	3.78	2.56	3.89	0.5	Pass

802.11ax (HE80)

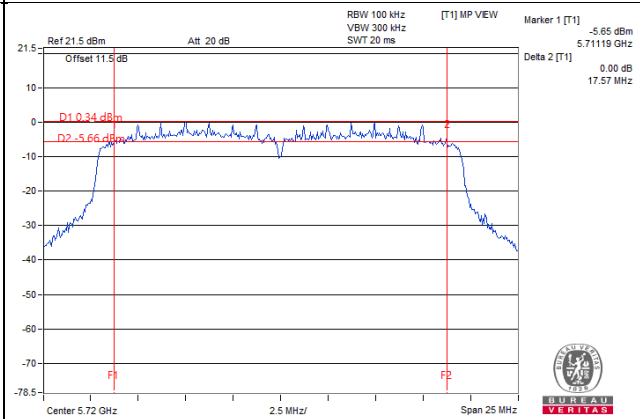
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
138 (U-NII-3)	5690	2.81	3.43	1.43	2.72	0.5	Pass

Spectrum Plot of Worst Value

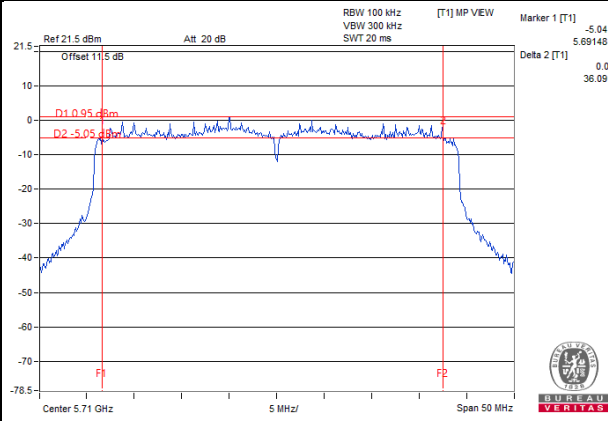
802.11a_Chain 0 / CH144 (U-NII-3 Band)



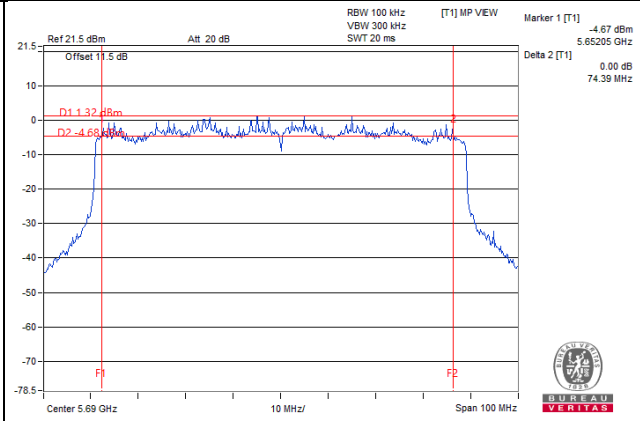
802.11ax (HE20)_Chain 2 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 2 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 2 / CH138 (U-NII-3 Band)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

4.7.9 Test Results (Mode 3)

Non-Beamforming Mode

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
144 (U-NII-3)	5720	2.56	3.10	3.14	3.10	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
144 (U-NII-3)	5720	4.30	4.15	4.31	4.02	0.5	Pass

802.11ax (HE40)

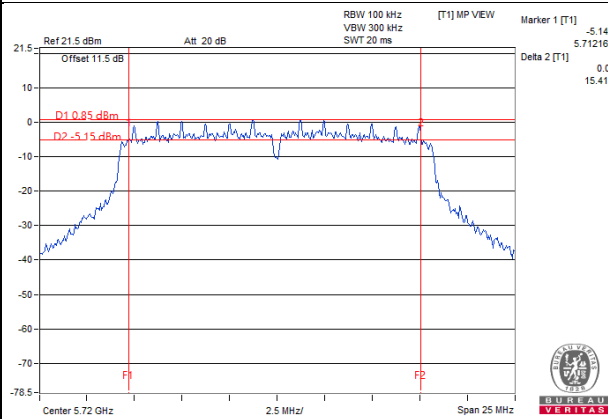
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
142 (U-NII-3)	5710	3.81	3.89	3.03	3.89	0.5	Pass

802.11ax (HE80)

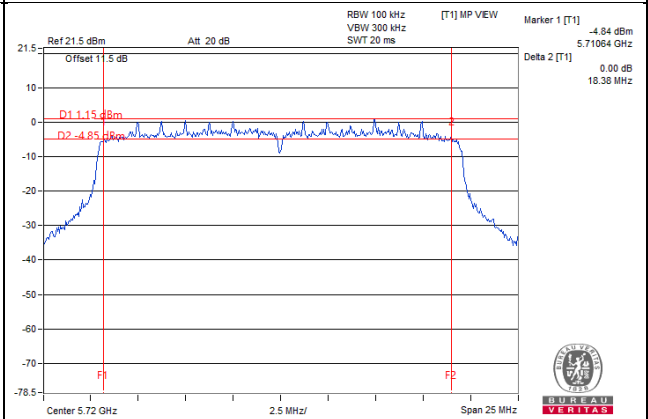
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
138 (U-NII-3)	5690	2.68	2.22	2.77	2.72	0.5	Pass

Spectrum Plot of Worst Value

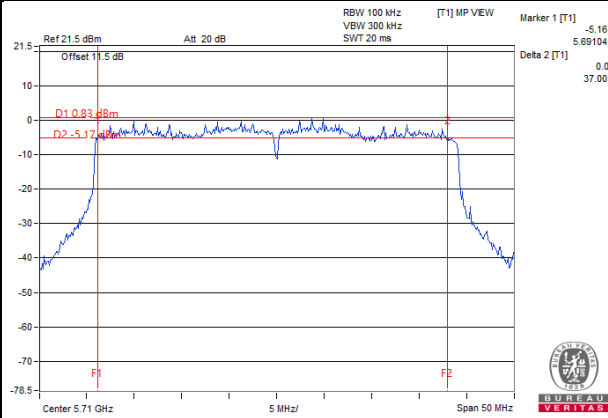
802.11a_Chain 0 / CH144 (U-NII-3 Band)



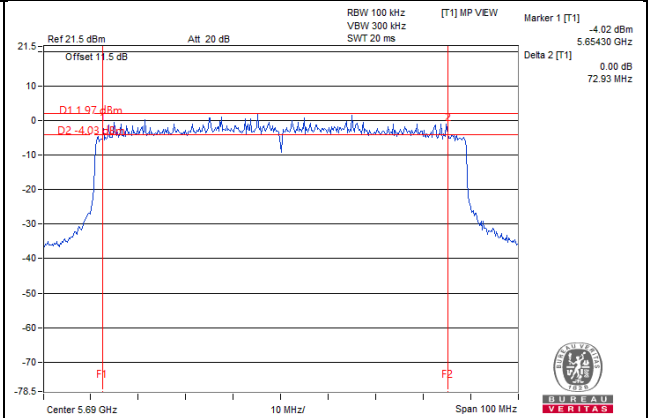
802.11ax (HE20)_Chain 3 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 2 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 1 / CH138 (U-NII-3 Band)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

4.7.10 Test Results (Mode 4)

Non-Beamforming Mode
802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
144 (U-NII-3)	5720	2.52	2.88	3.11	2.85	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
144 (U-NII-3)	5720	4.30	3.75	3.75	4.22	0.5	Pass

802.11ax (HE40)

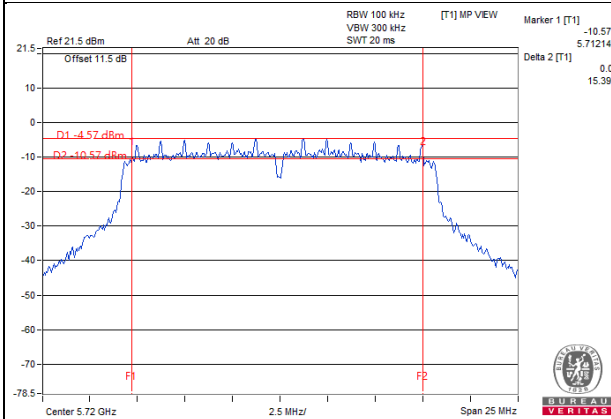
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
142 (U-NII-3)	5710	3.39	3.43	3.82	3.89	0.5	Pass

802.11ax (HE80)

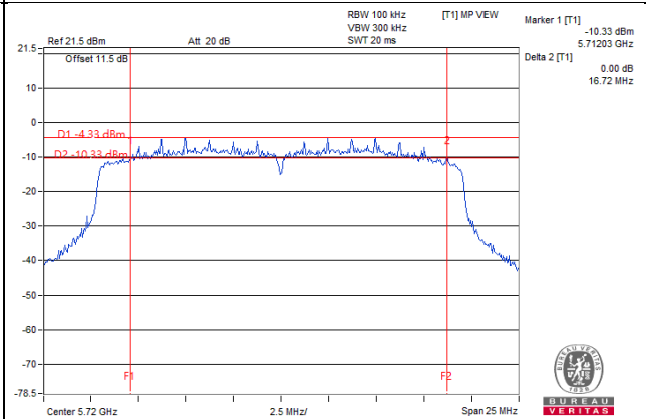
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain0	Chain1	Chain2	Chain3		
138 (U-NII-3)	5690	2.68	2.71	2.72	3.40	0.5	Pass

Spectrum Plot of Worst Value

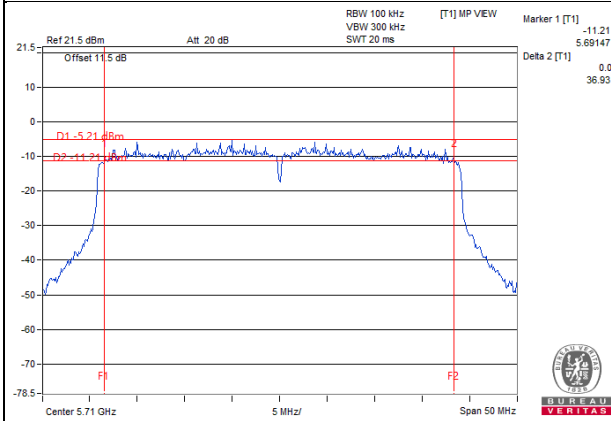
802.11a_Chain 0 / CH144 (U-NII-3 Band)



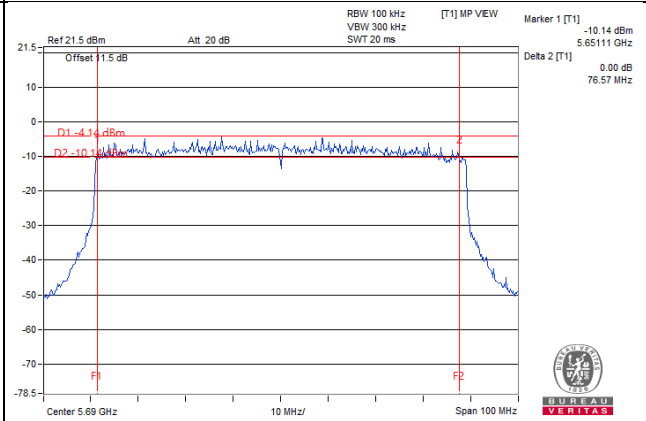
802.11ax (HE20)_Chain 1 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 0 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

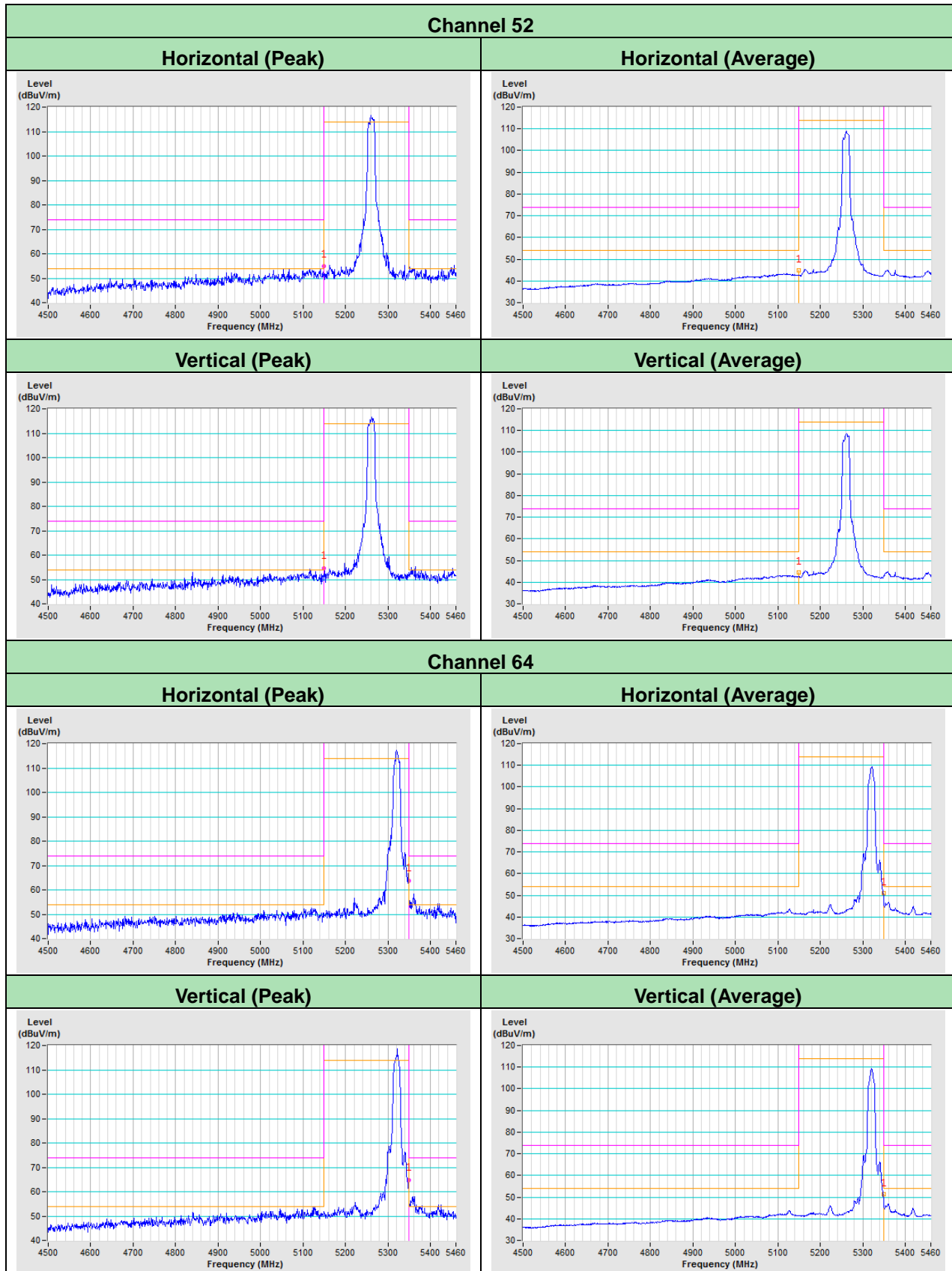
5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Annex A - Band-Edge Measurement (For U-NII-2A, U-NII-2C band)

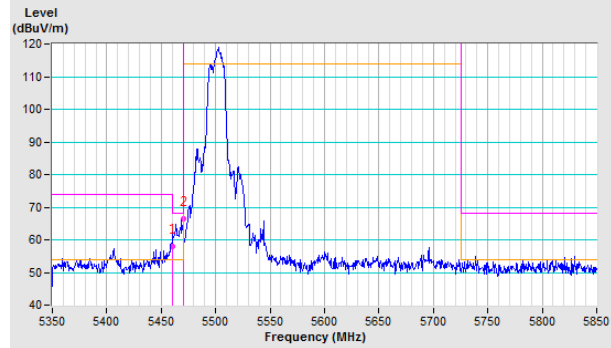
Annex A.1 - Test Results (Mode 1)

802.11a

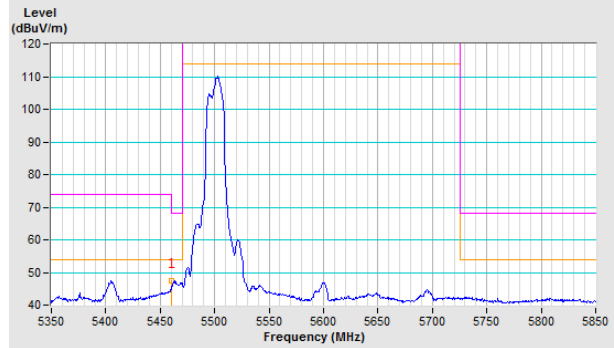


Channel 100

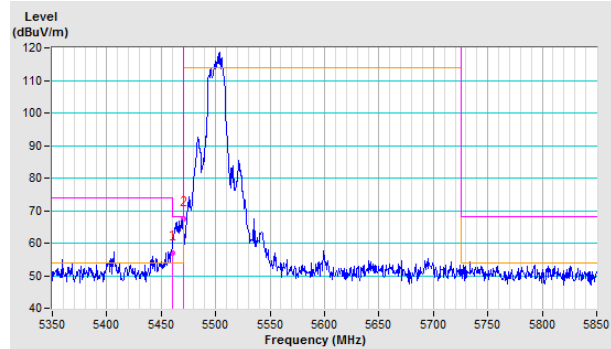
Horizontal (Peak)



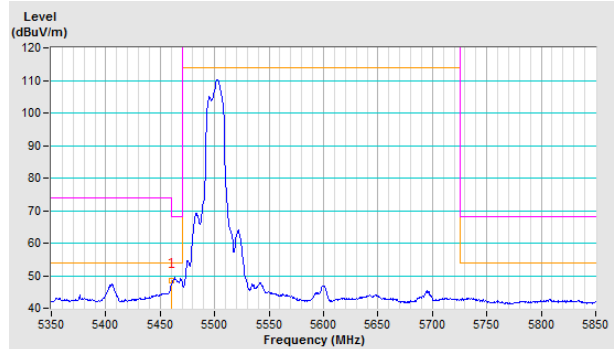
Horizontal (Average)



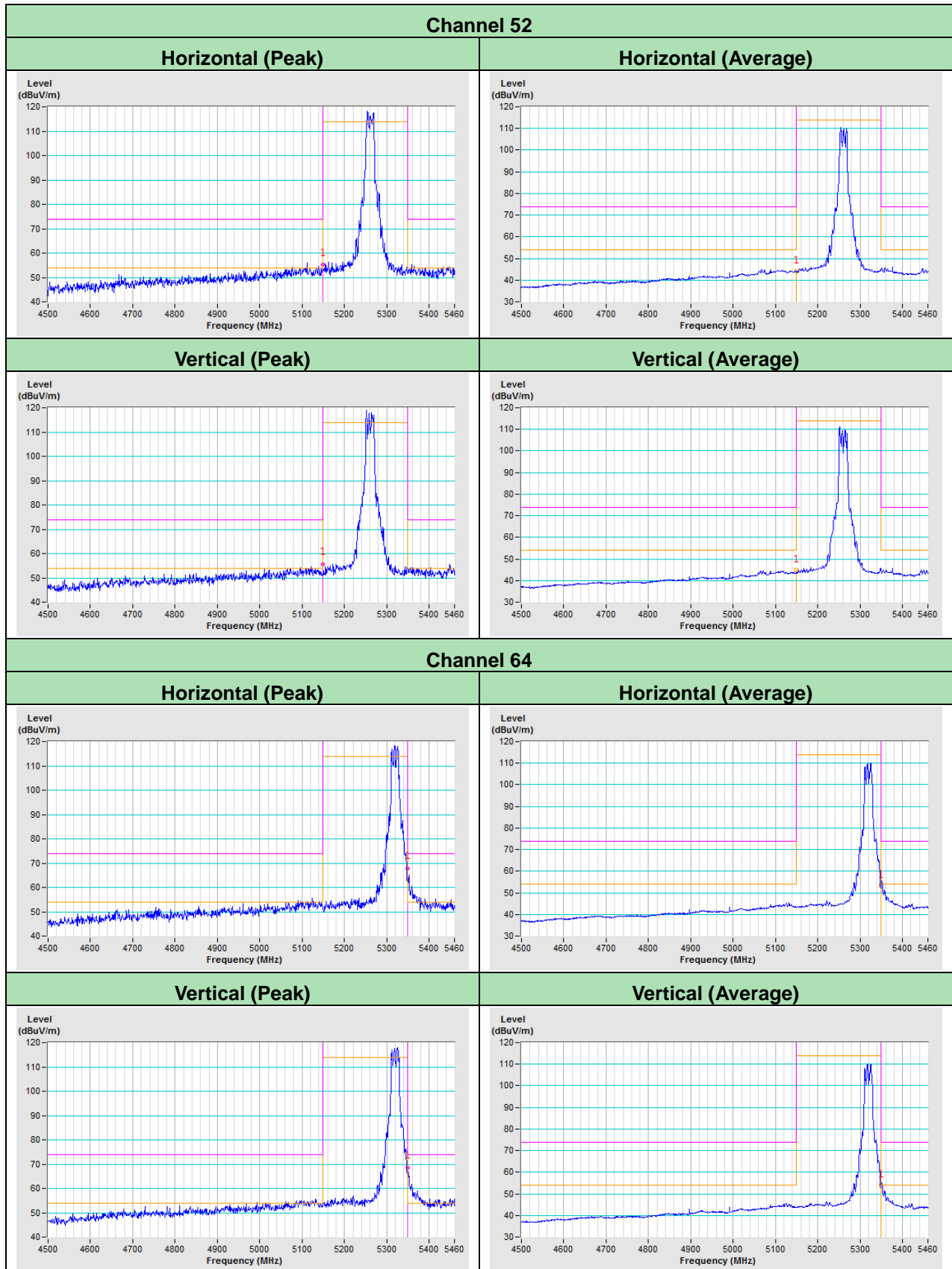
Vertical (Peak)



Vertical (Average)

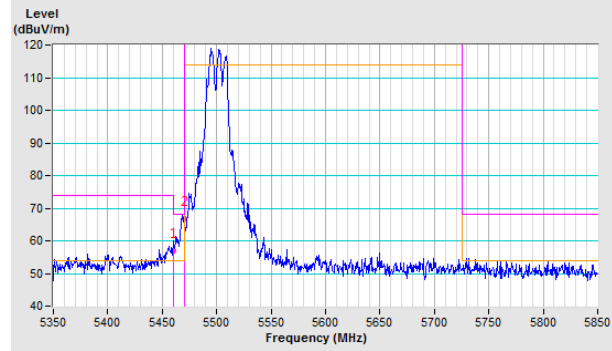


802.11ax (HE20)

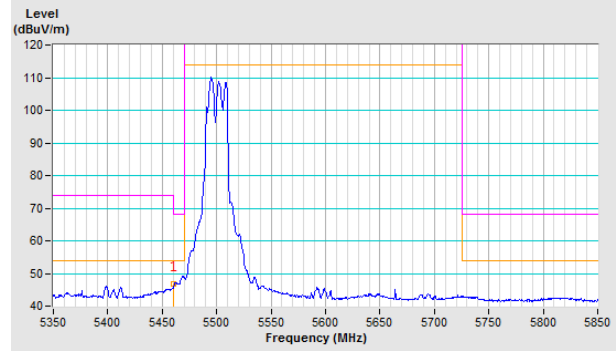


Channel 100

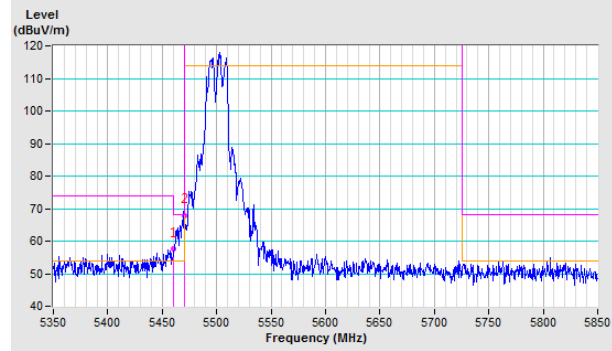
Horizontal (Peak)



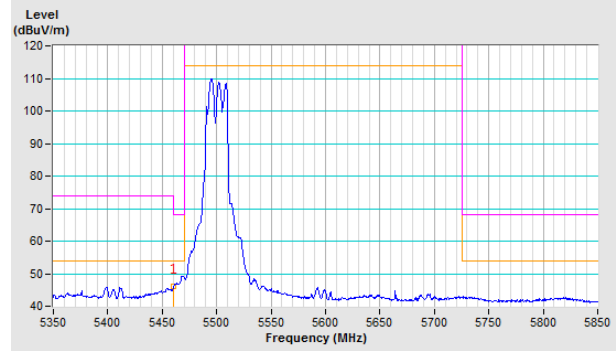
Horizontal (Average)



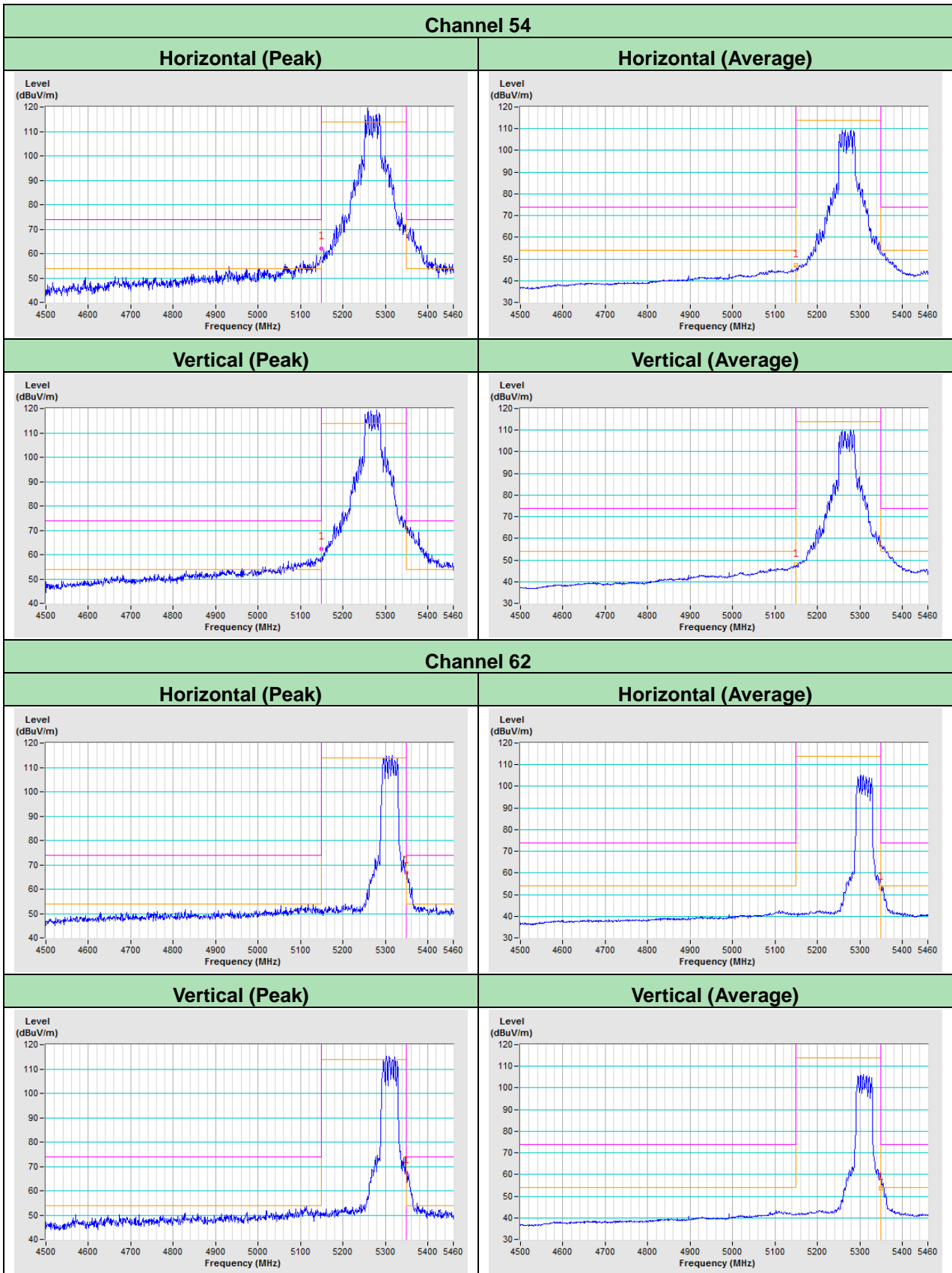
Vertical (Peak)



Vertical (Average)

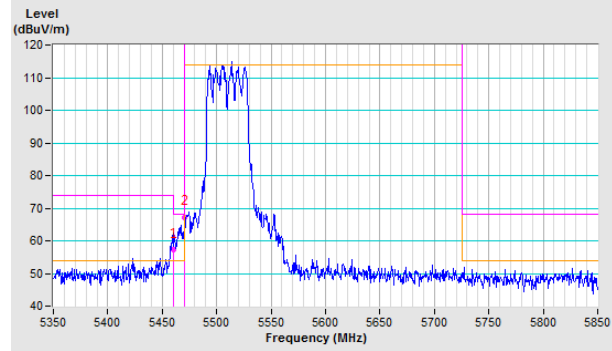


802.11ax (HE40)

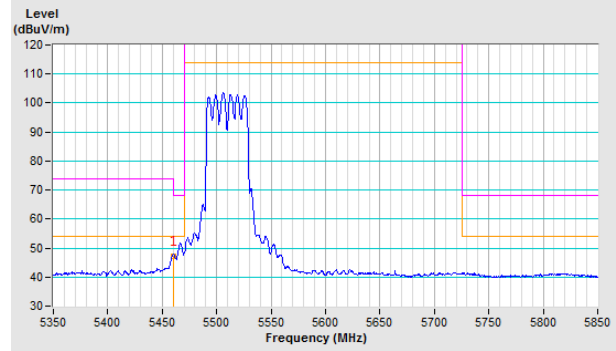


Channel 102

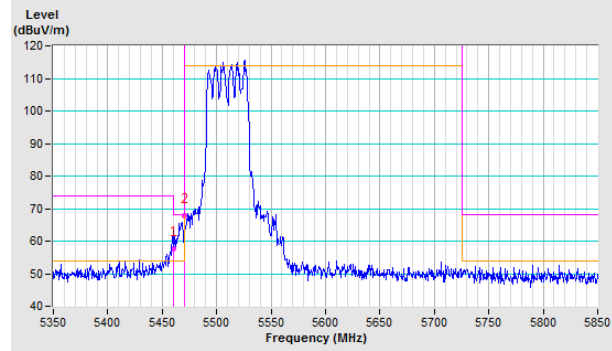
Horizontal (Peak)



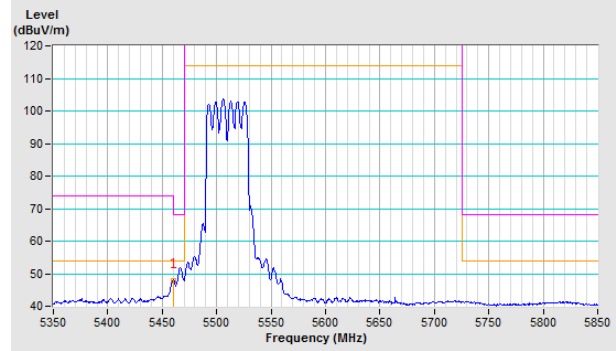
Horizontal (Average)



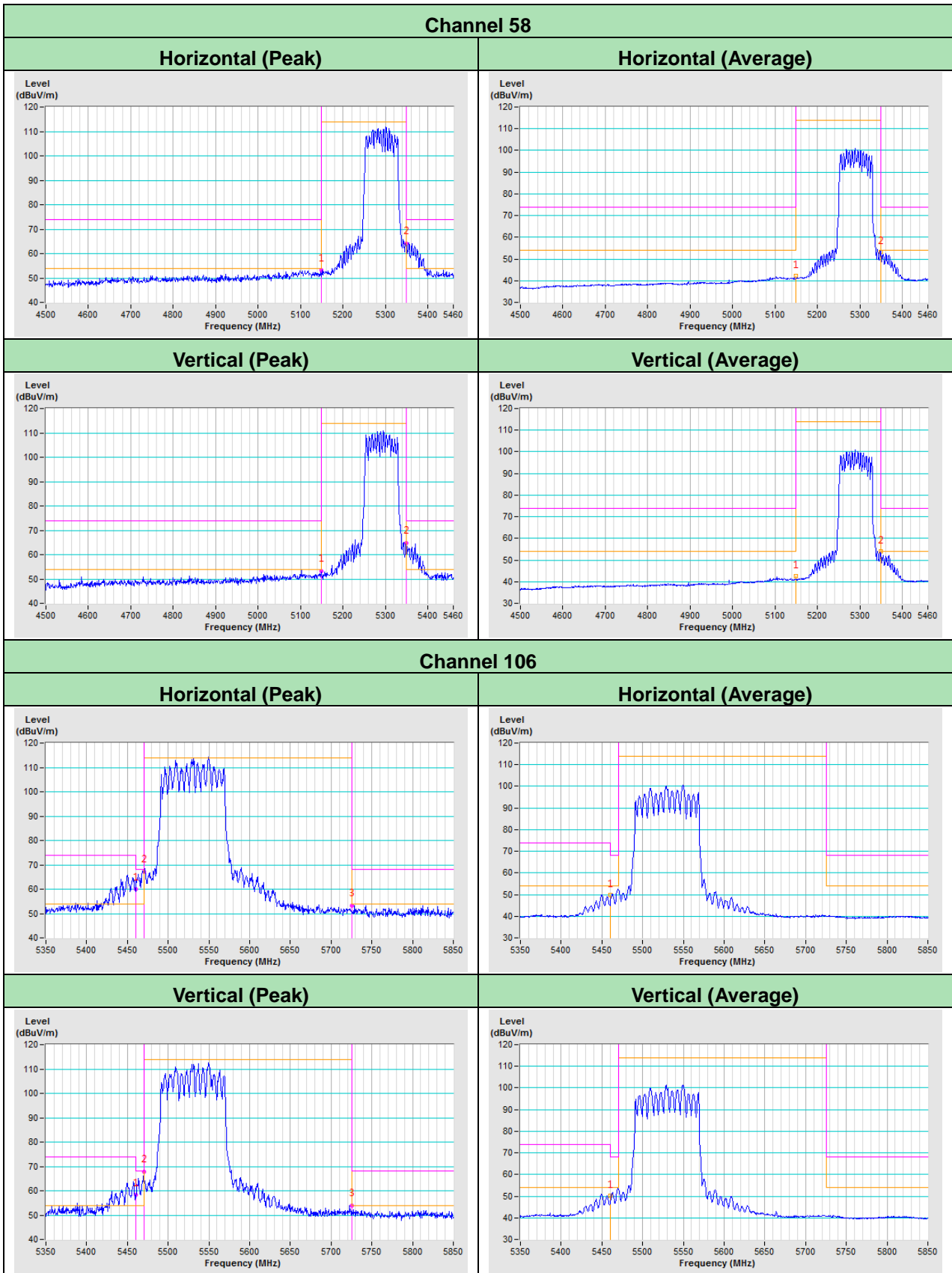
Vertical (Peak)



Vertical (Average)

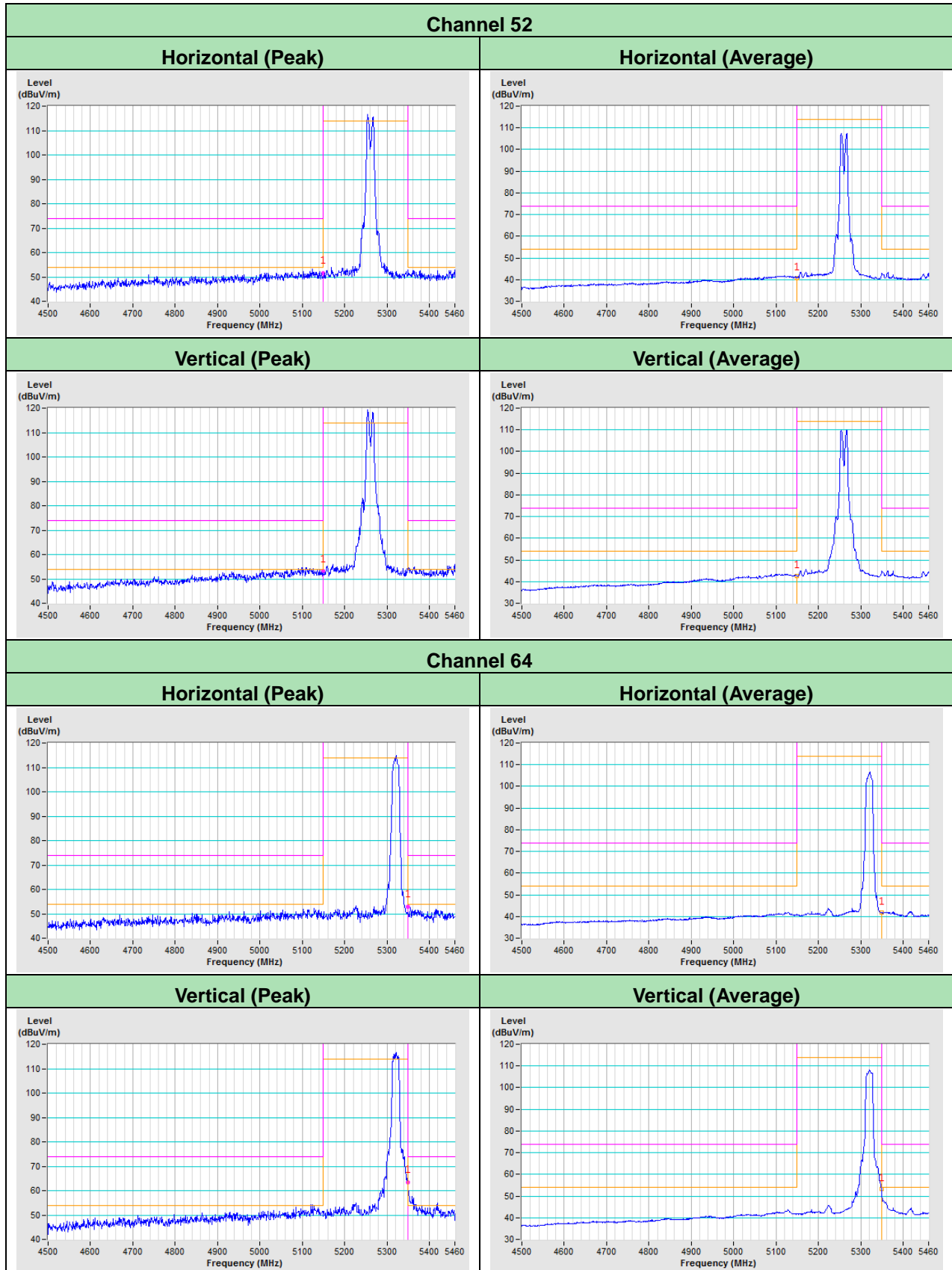


802.11ax (HE80)



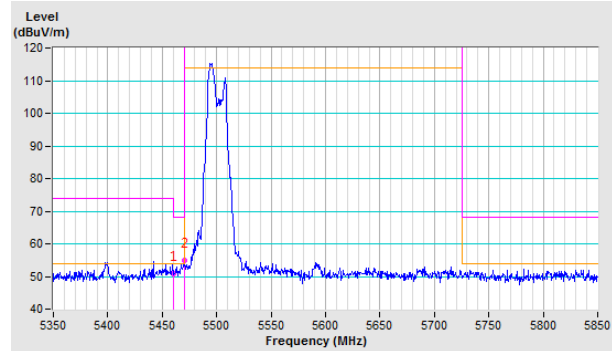
Annex A.2 - Test Results (Mode 2)

802.11a

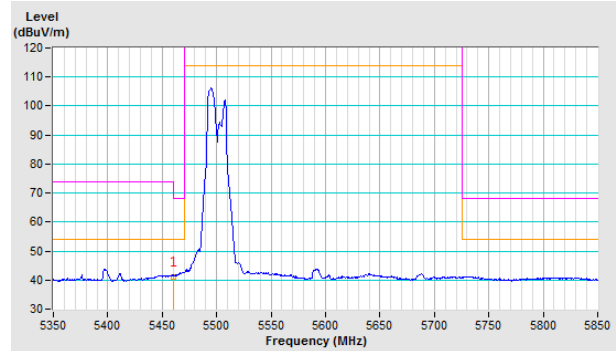


Channel 100

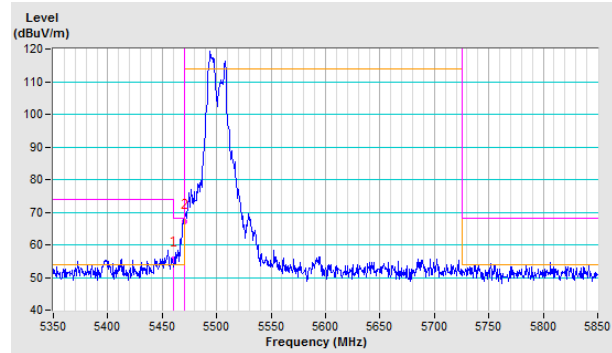
Horizontal (Peak)



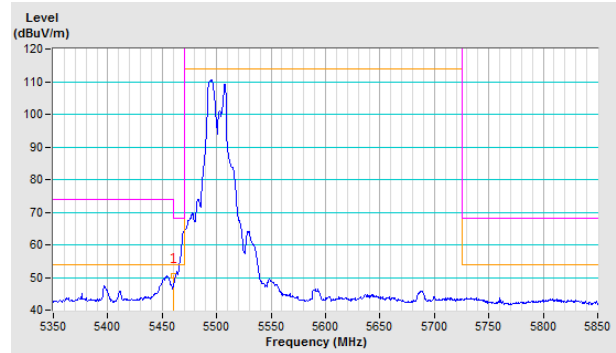
Horizontal (Average)



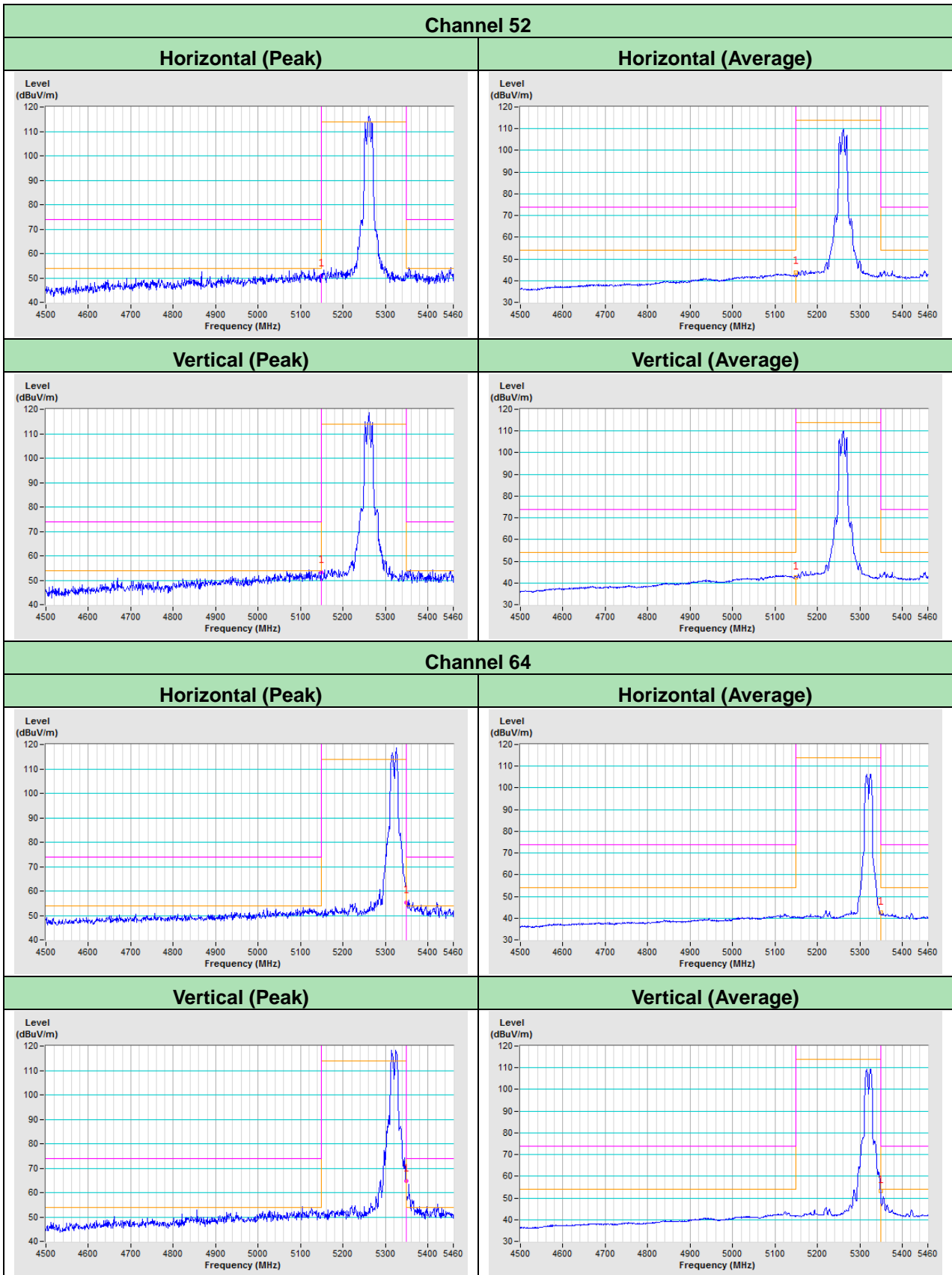
Vertical (Peak)



Vertical (Average)

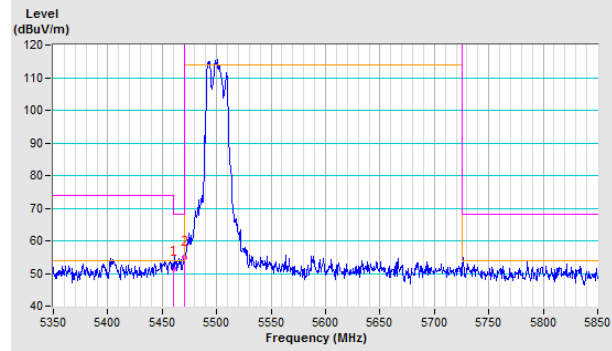


802.11ax (HE20)

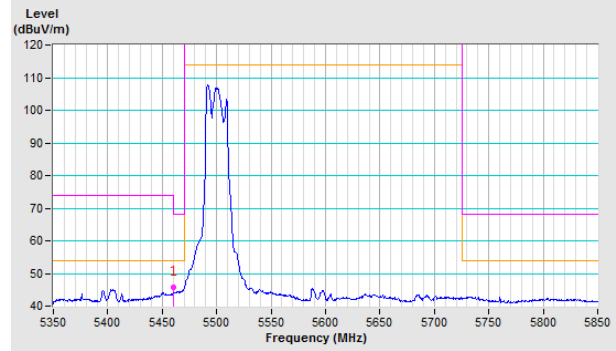


Channel 100

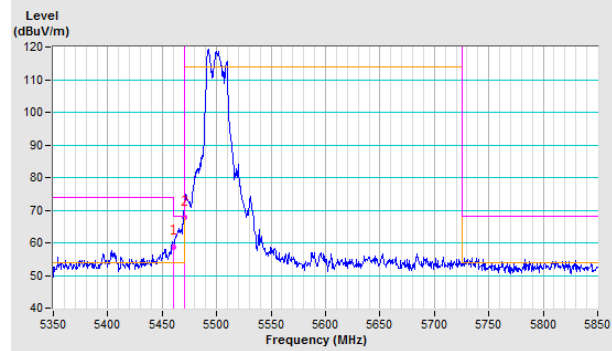
Horizontal (Peak)



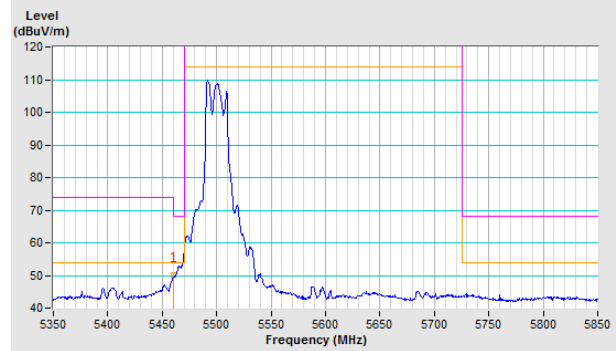
Horizontal (Average)



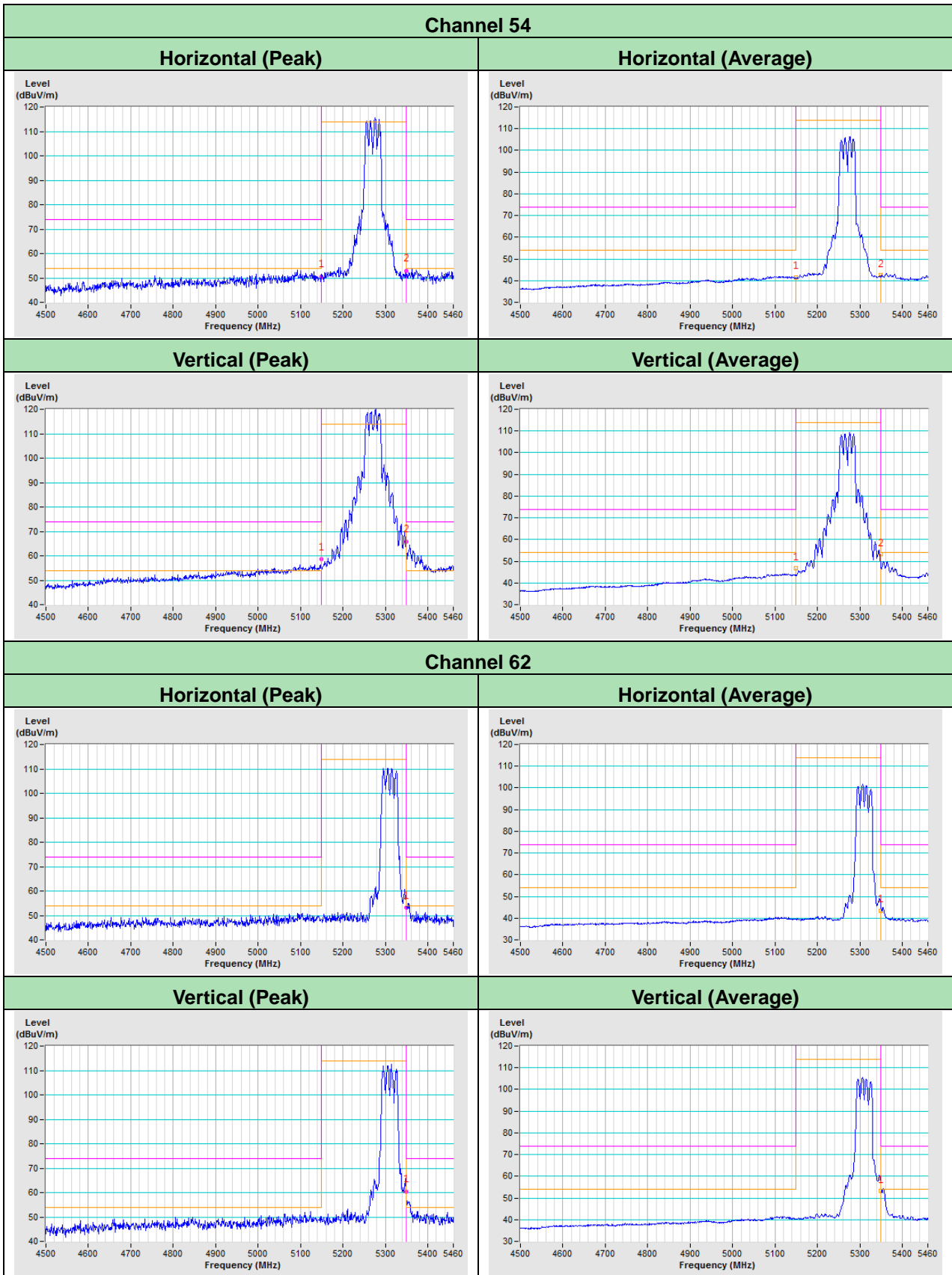
Vertical (Peak)



Vertical (Average)

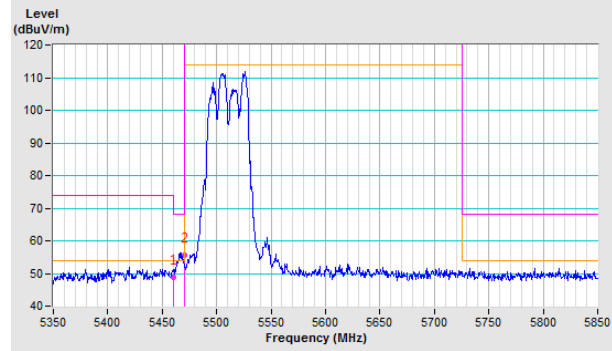


802.11ax (HE40)

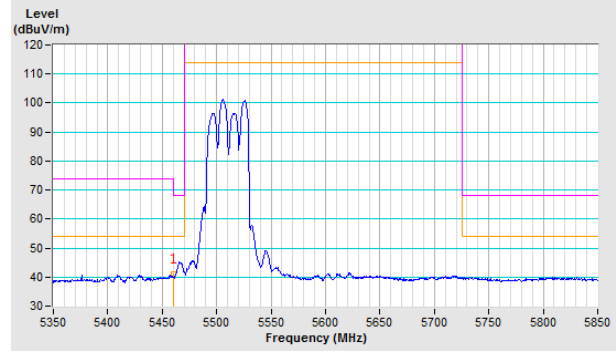


Channel 102

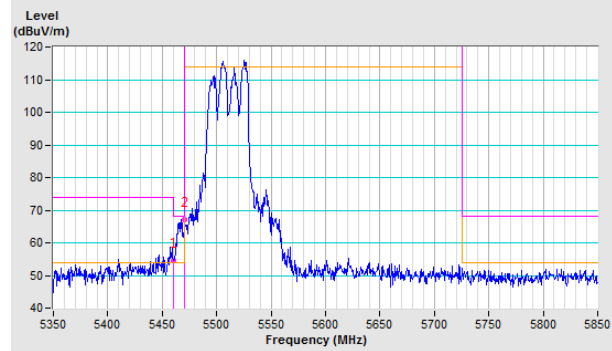
Horizontal (Peak)



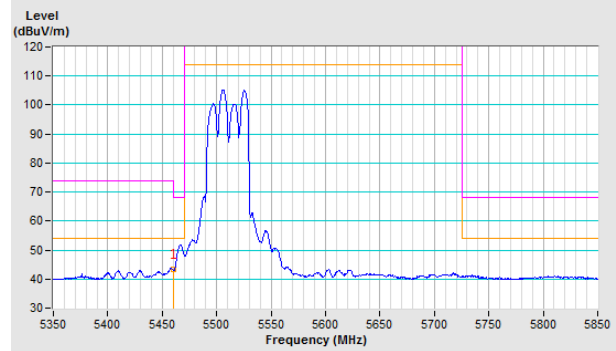
Horizontal (Average)



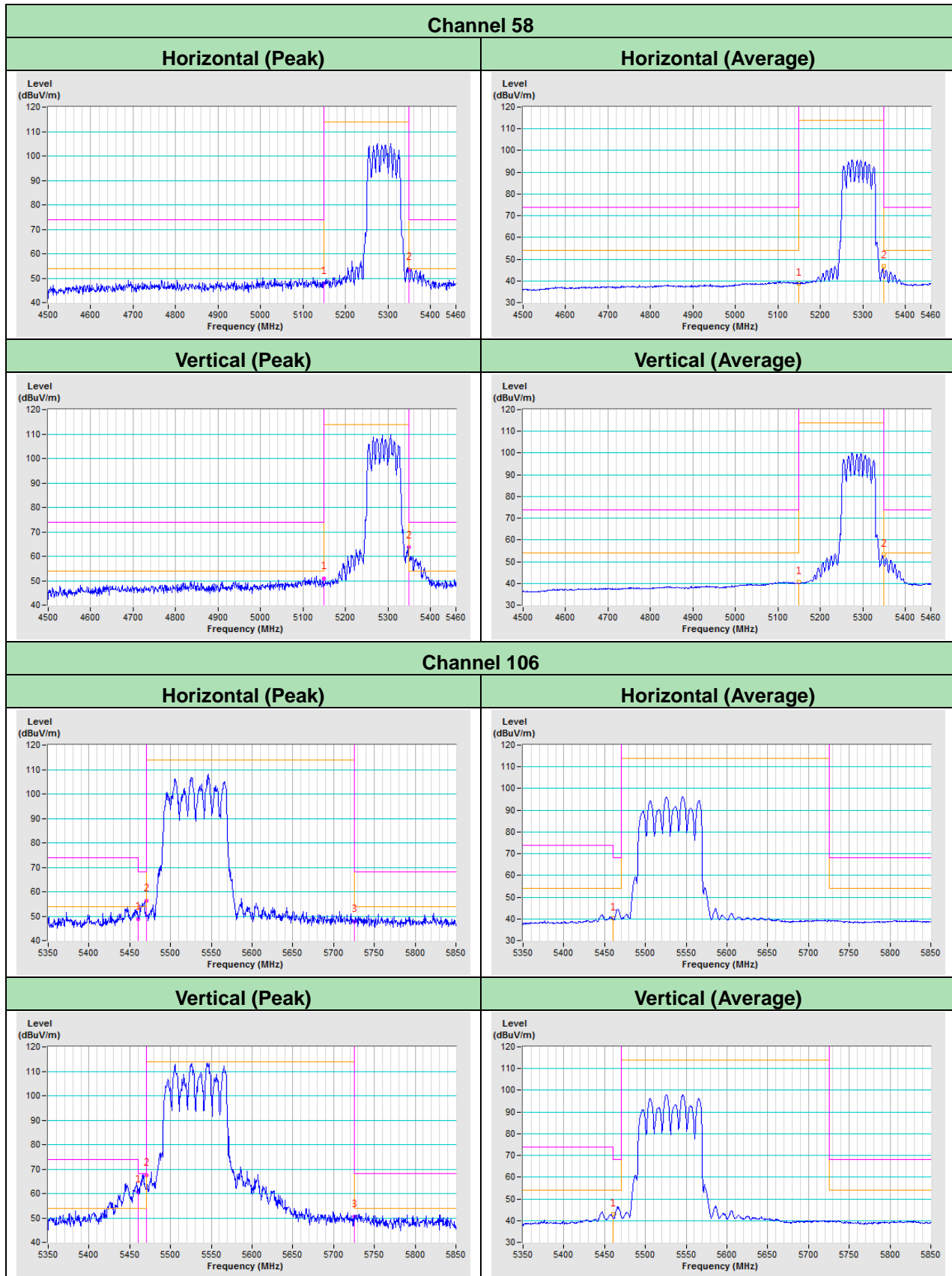
Vertical (Peak)



Vertical (Average)

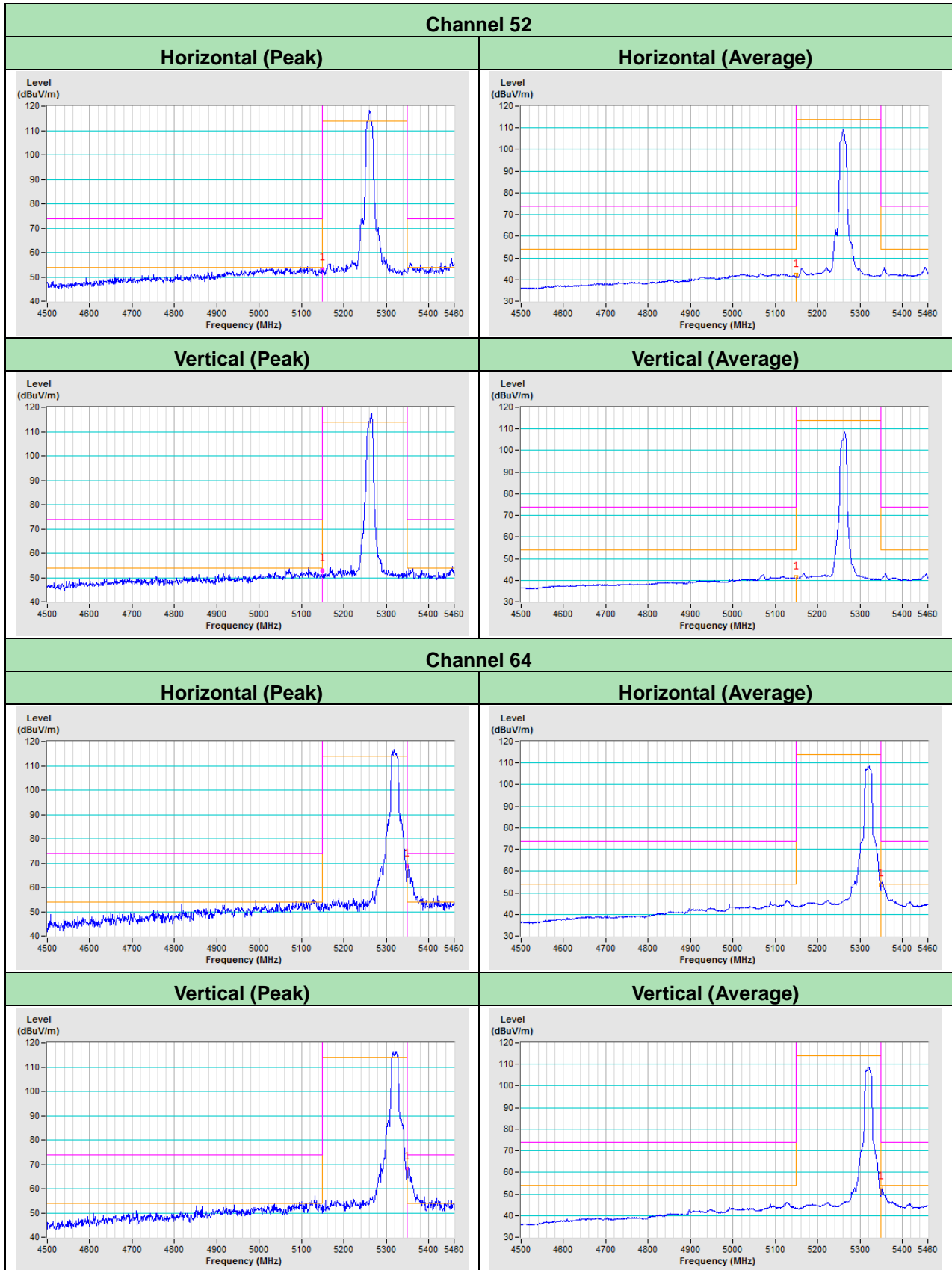


802.11ax (HE80)



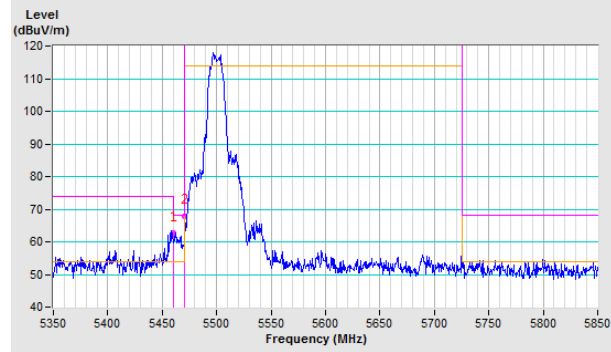
Annex A.3 - Test Results (Mode 3)

802.11a

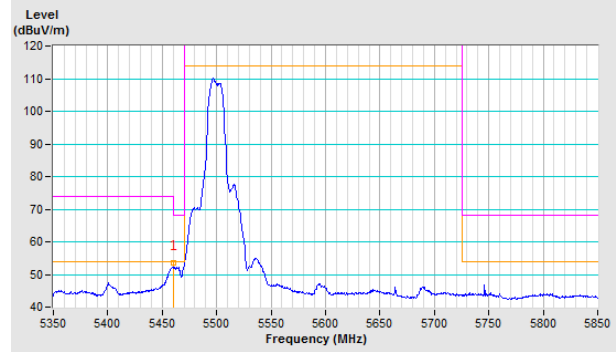


Channel 100

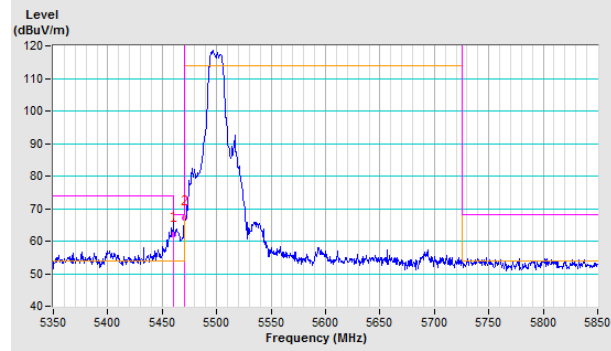
Horizontal (Peak)



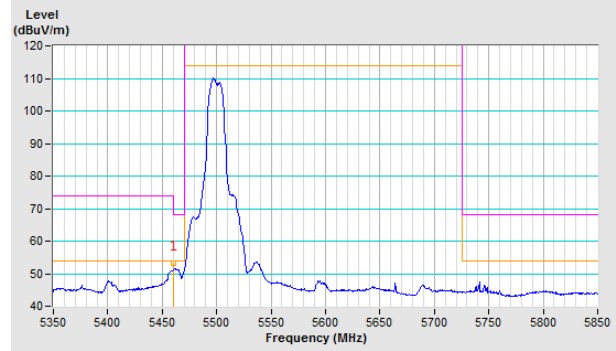
Horizontal (Average)



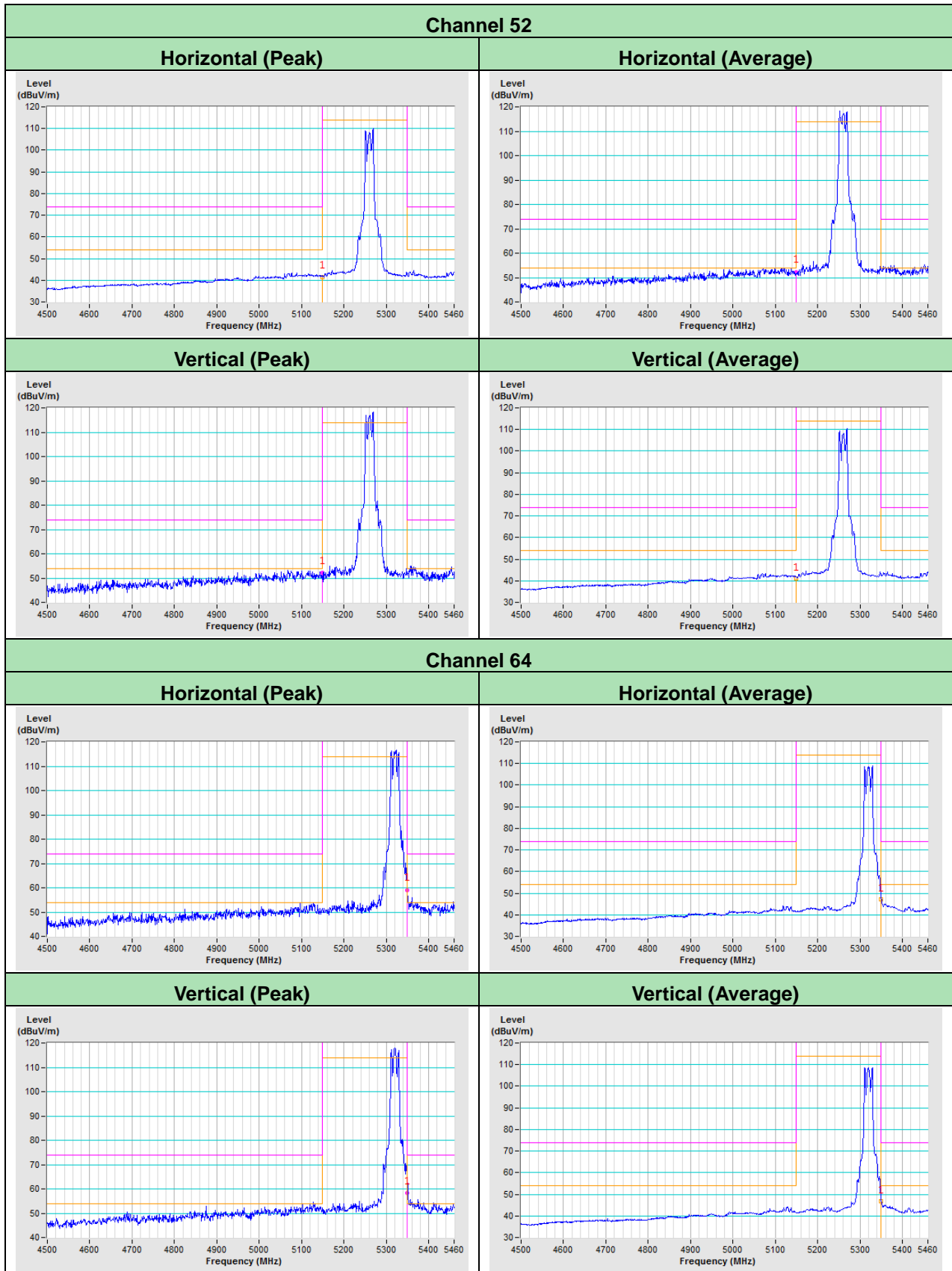
Vertical (Peak)



Vertical (Average)

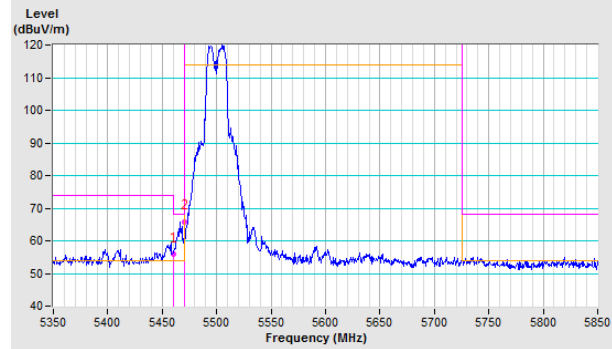


802.11ax (HE20)

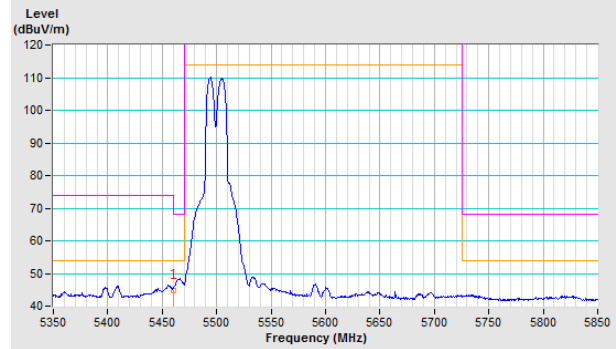


Channel 100

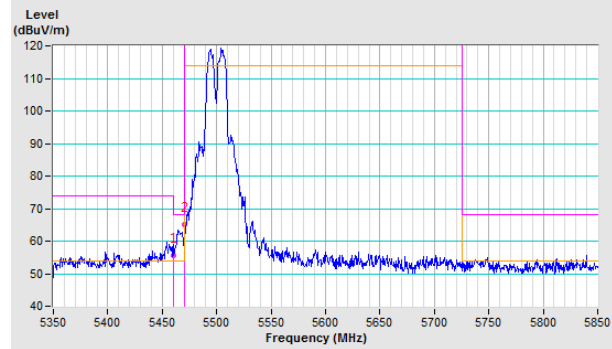
Horizontal (Peak)



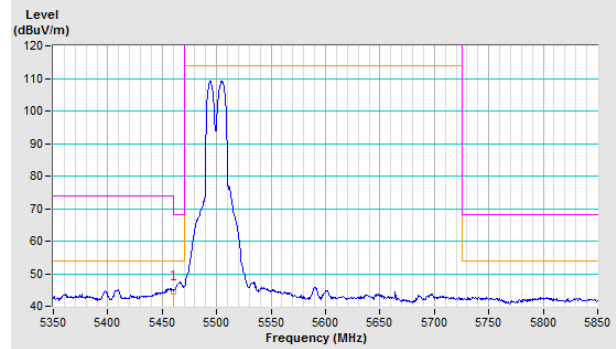
Horizontal (Average)



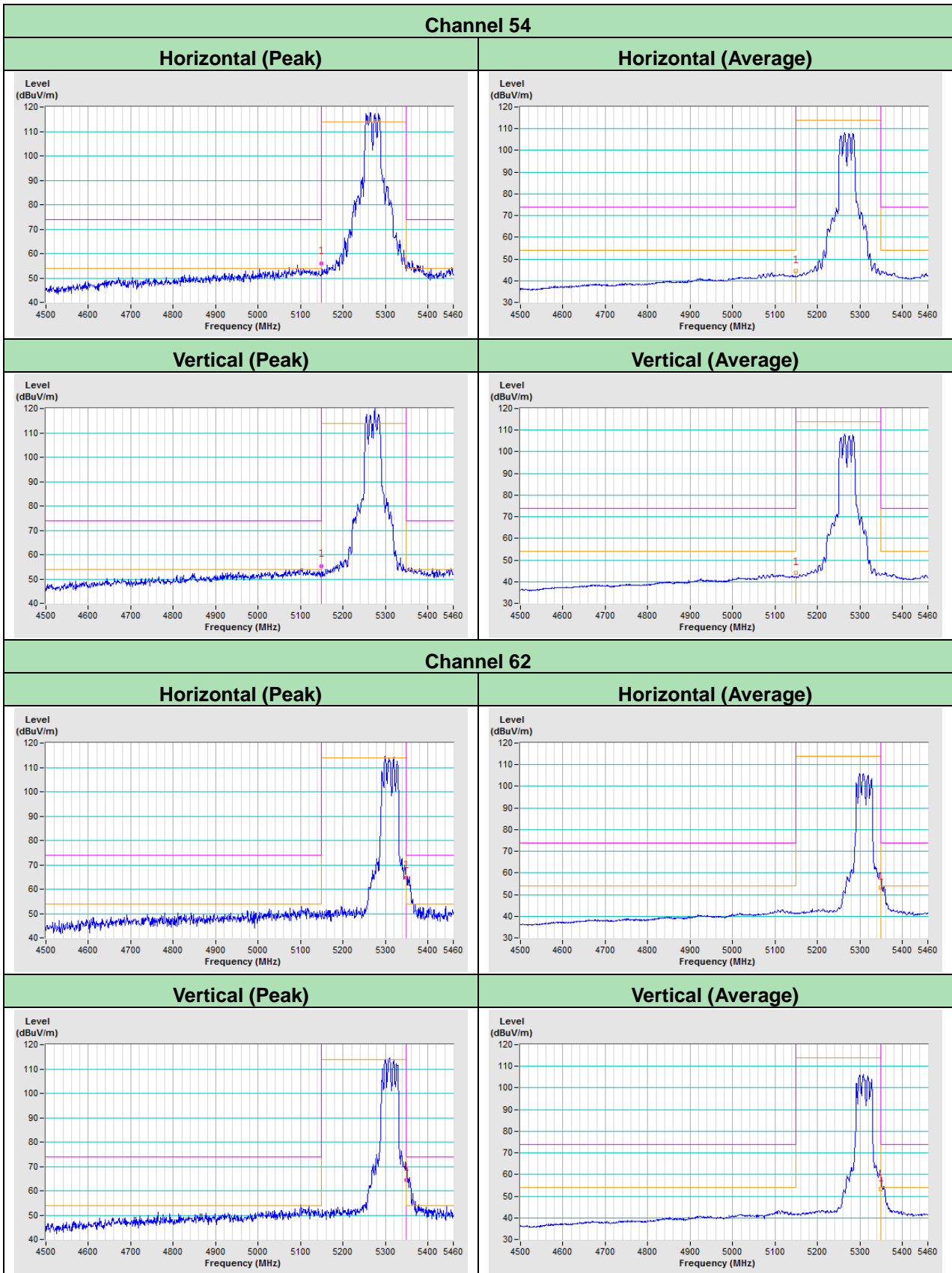
Vertical (Peak)



Vertical (Average)

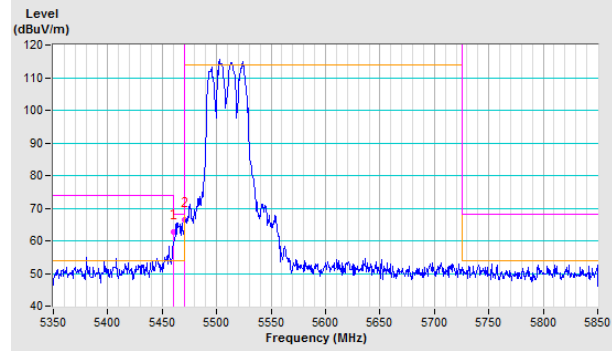


802.11ax (HE40)

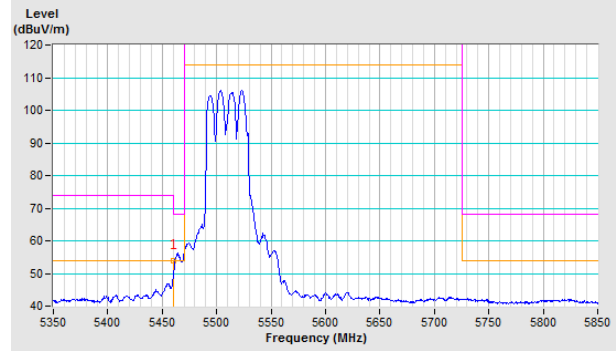


Channel 102

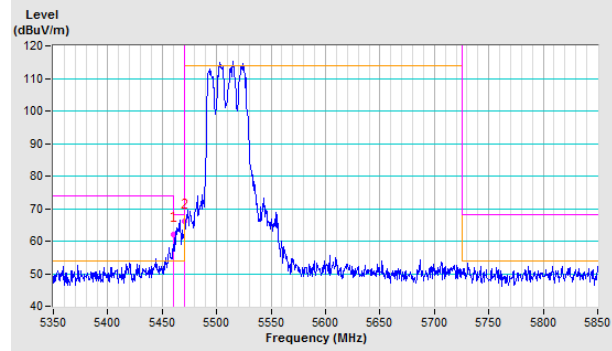
Horizontal (Peak)



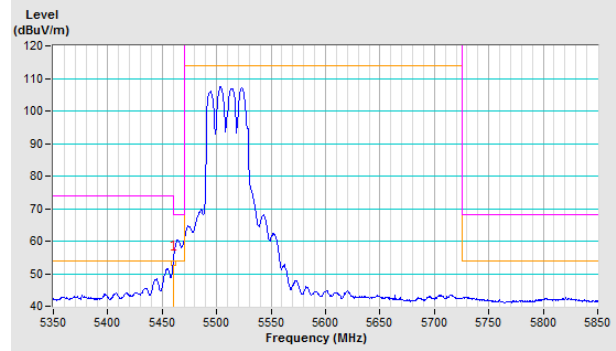
Horizontal (Average)



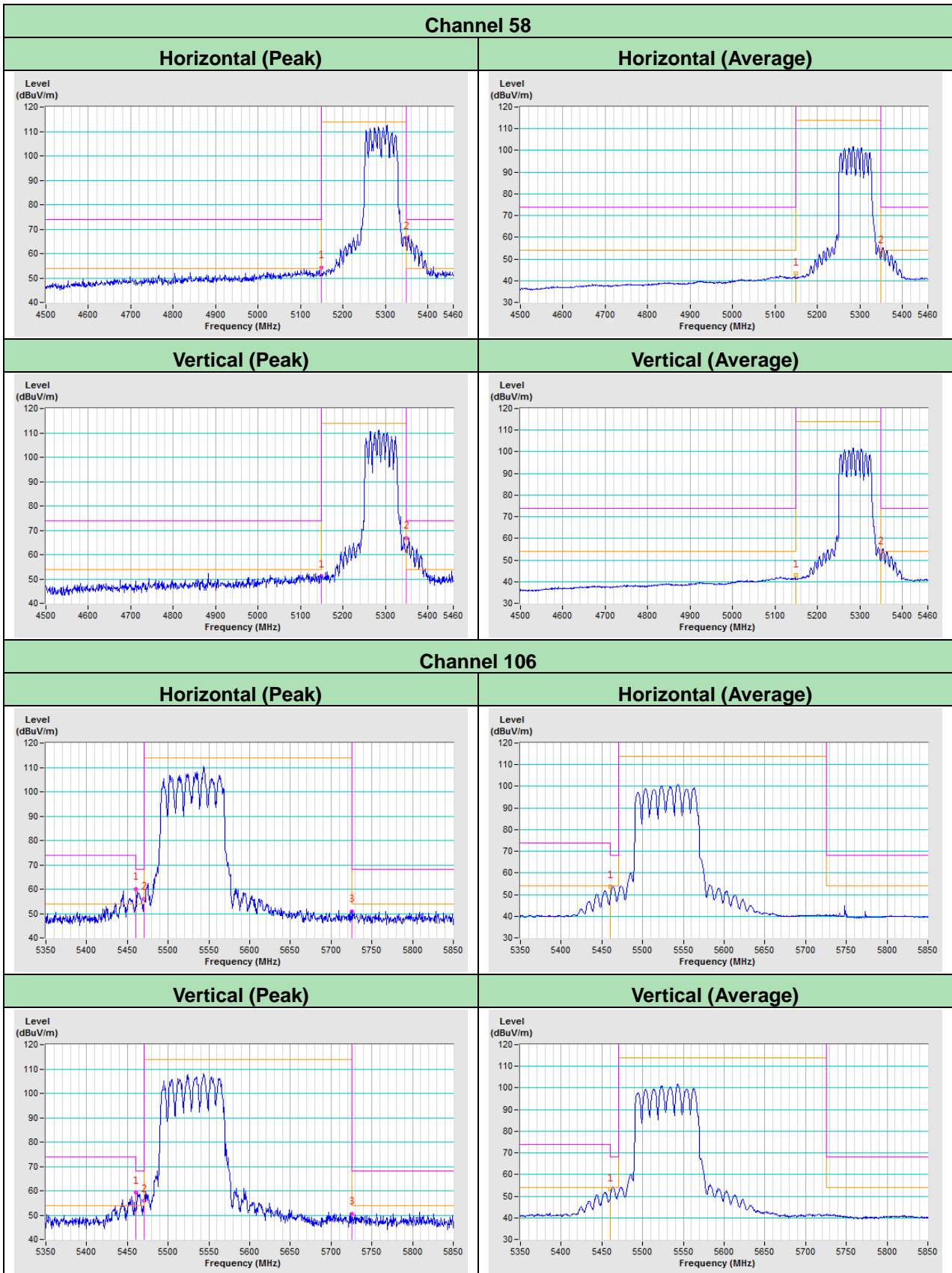
Vertical (Peak)



Vertical (Average)

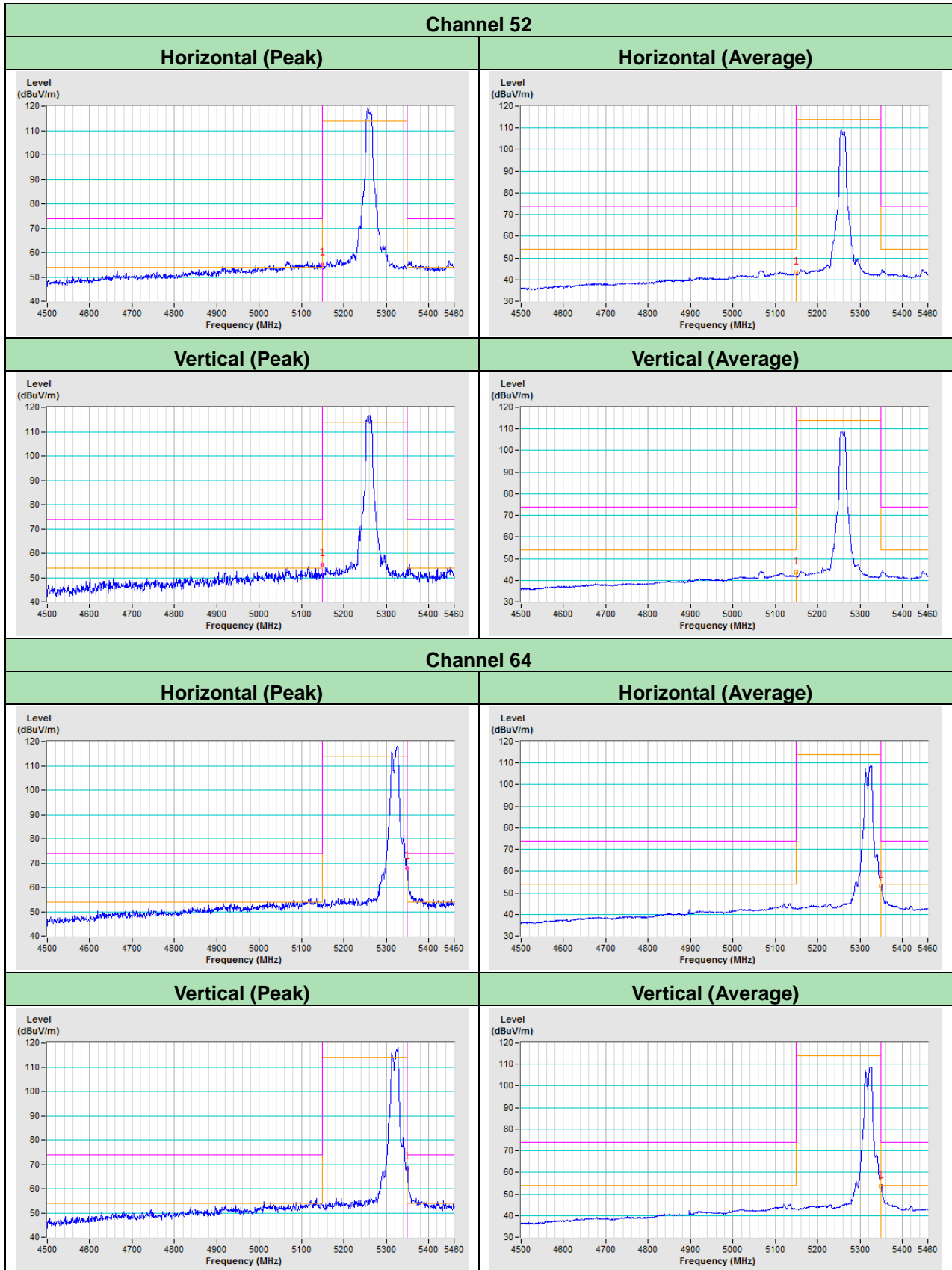


802.11ax (HE80)



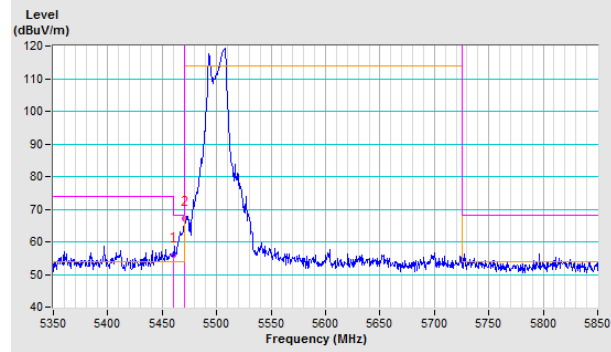
Annex A.4 - Test Results (Mode 4)

802.11a

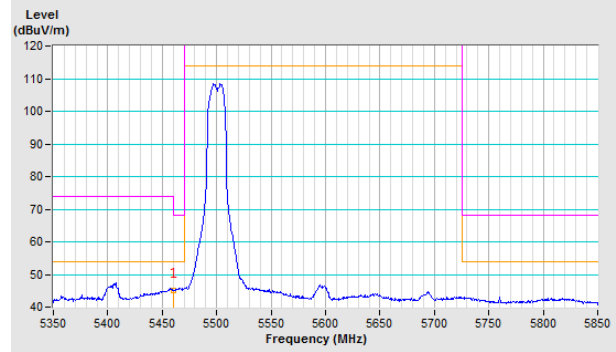


Channel 100

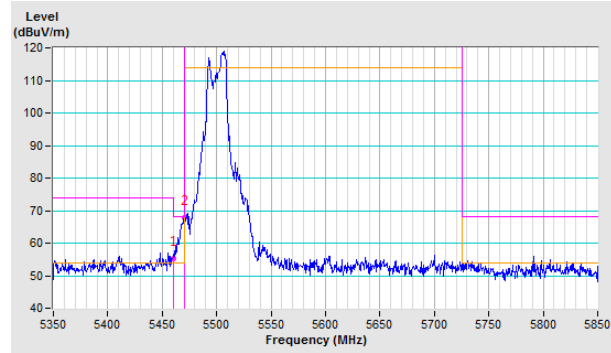
Horizontal (Peak)



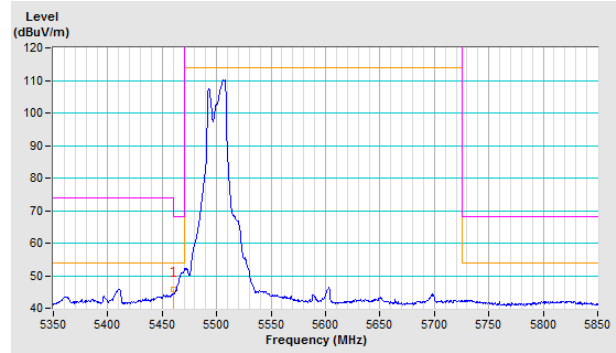
Horizontal (Average)



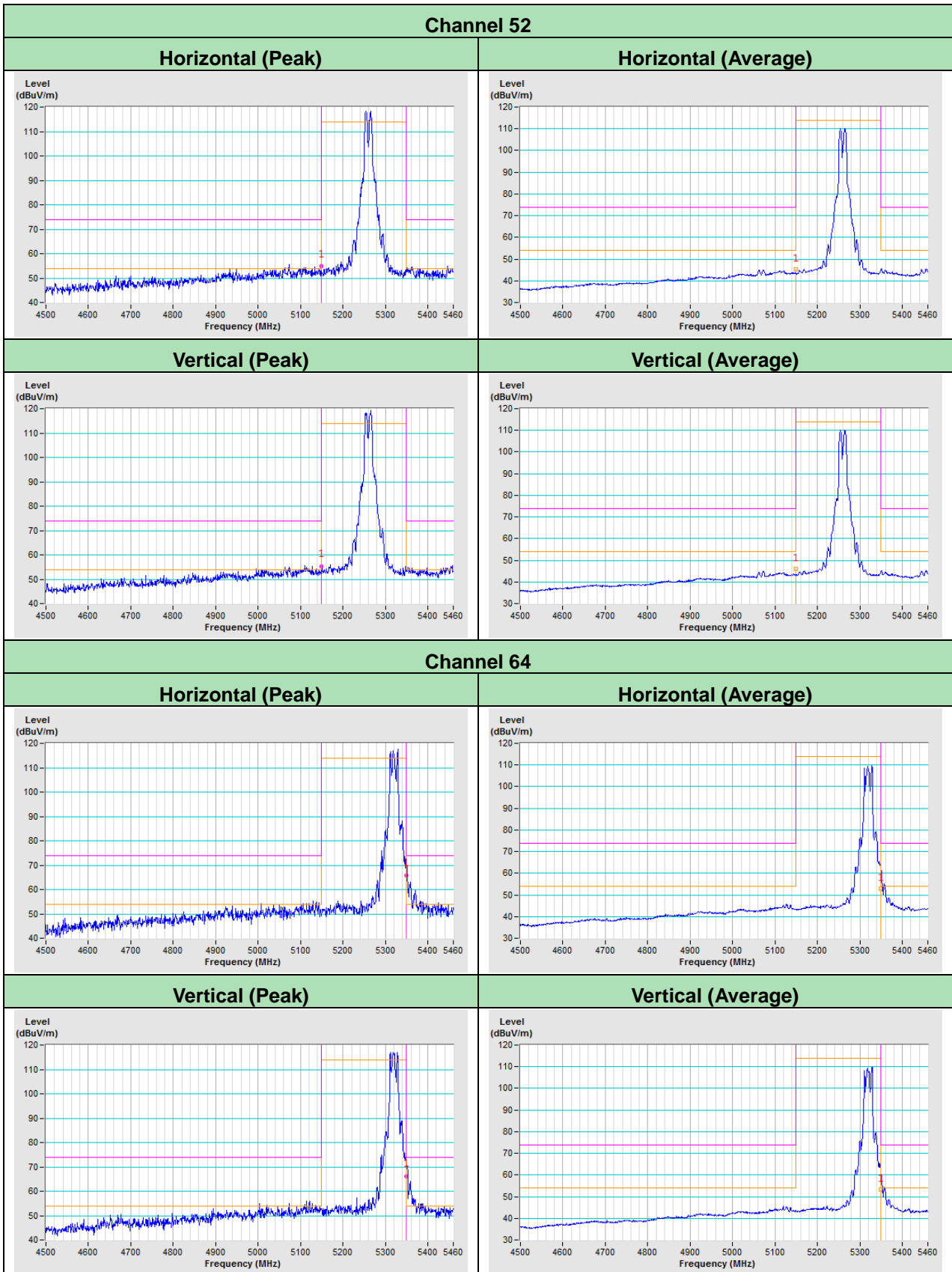
Vertical (Peak)



Vertical (Average)

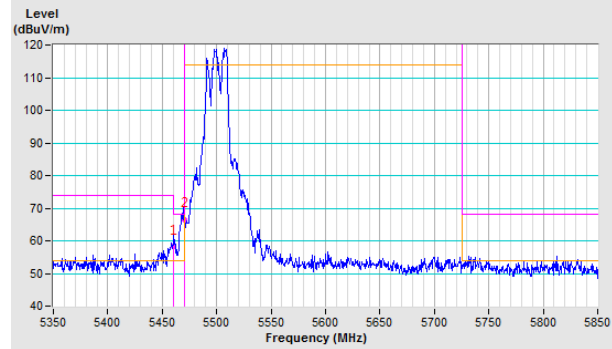


802.11ax (HE20)

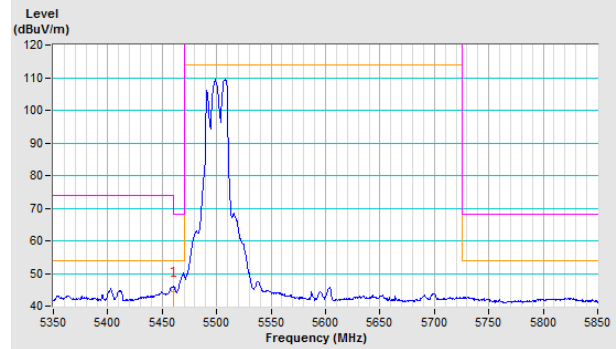


Channel 100

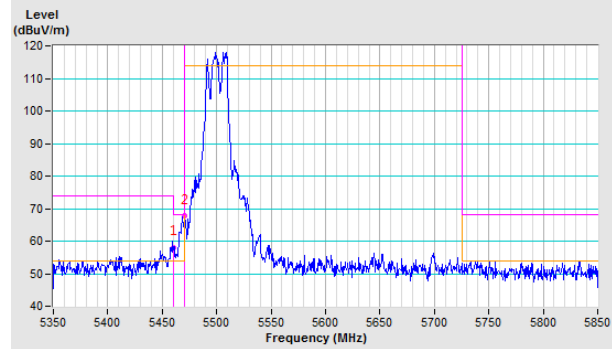
Horizontal (Peak)



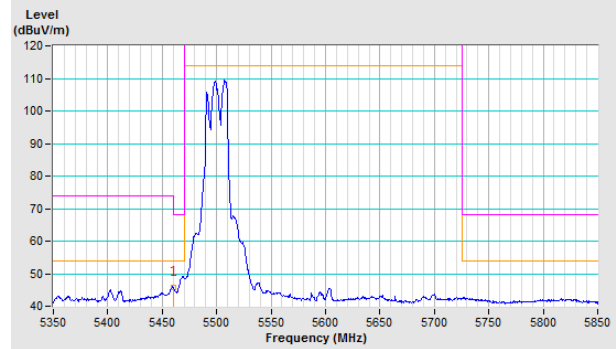
Horizontal (Average)



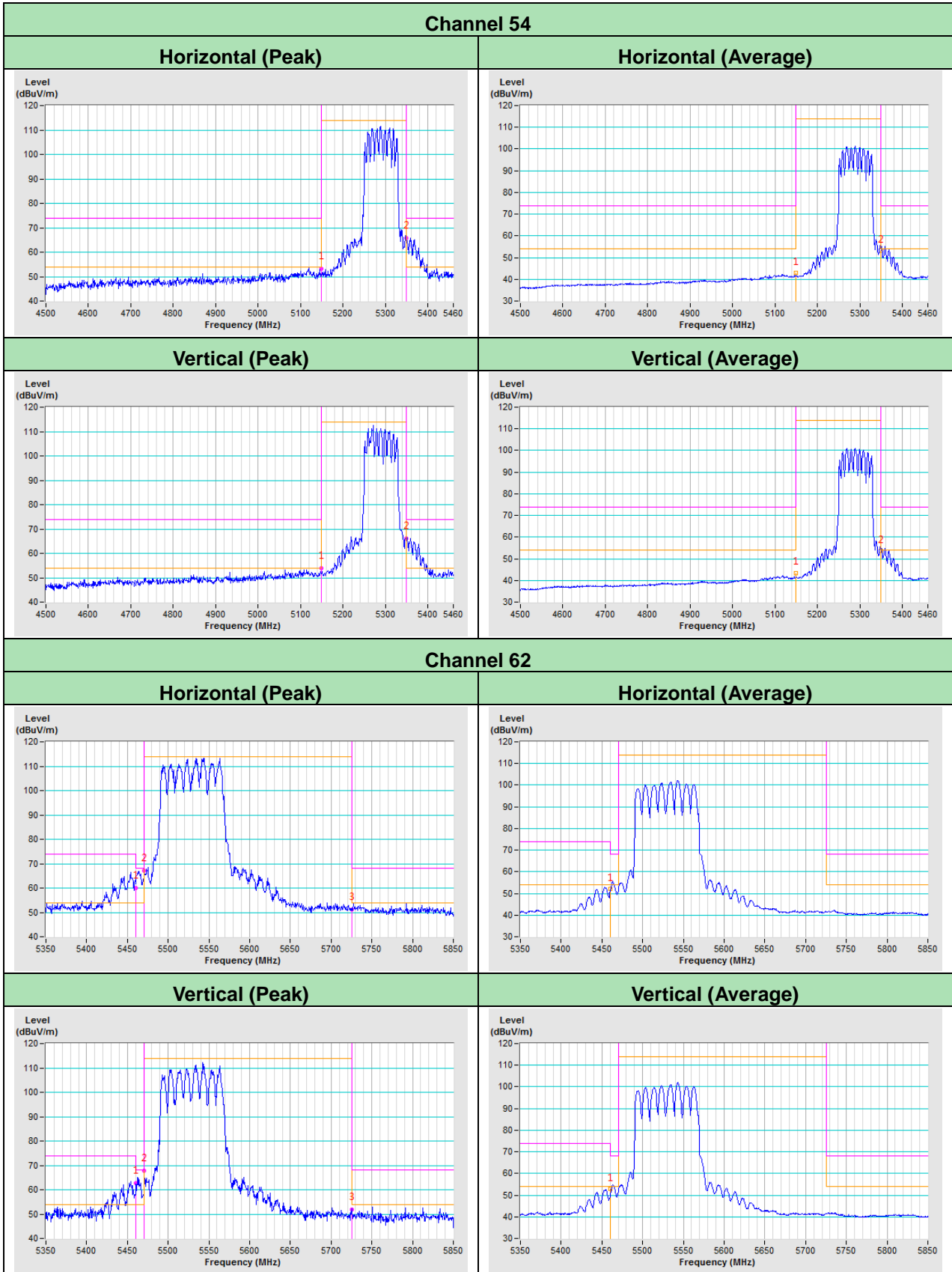
Vertical (Peak)



Vertical (Average)

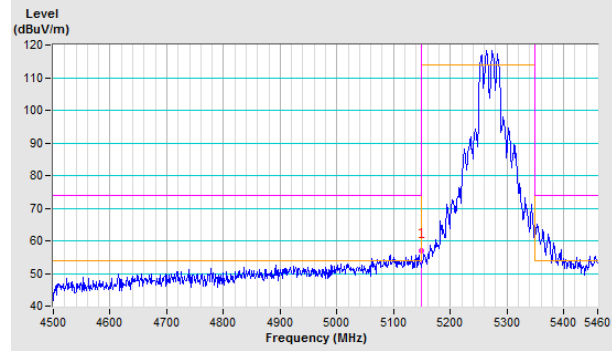


802.11ax (HE40)

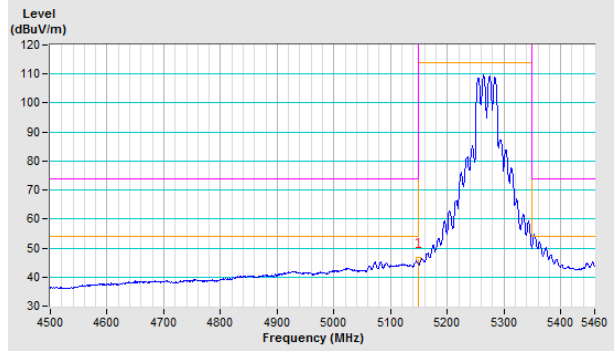


Channel 102

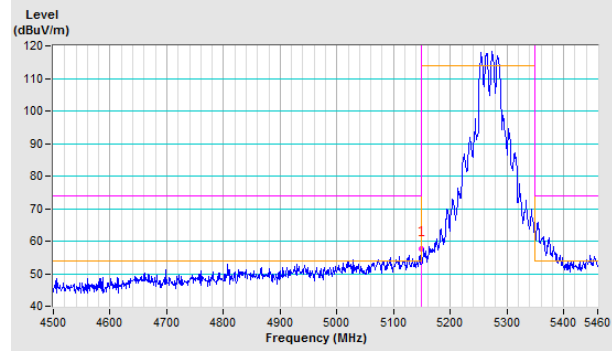
Horizontal (Peak)



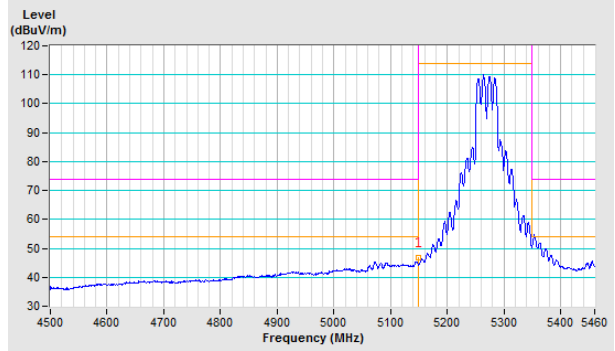
Horizontal (Average)



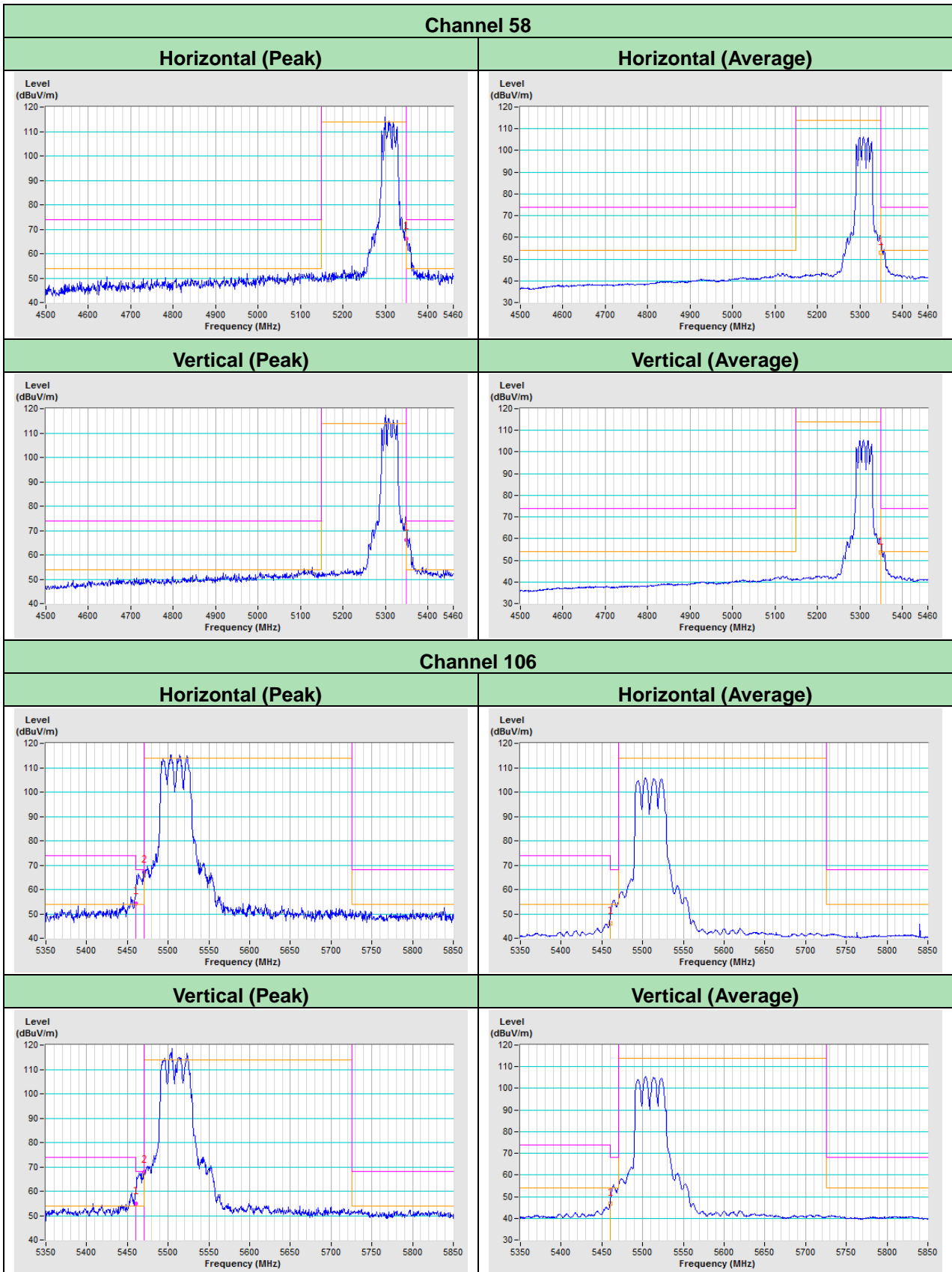
Vertical (Peak)



Vertical (Average)



802.11ax (HE80)



Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

--- END ---