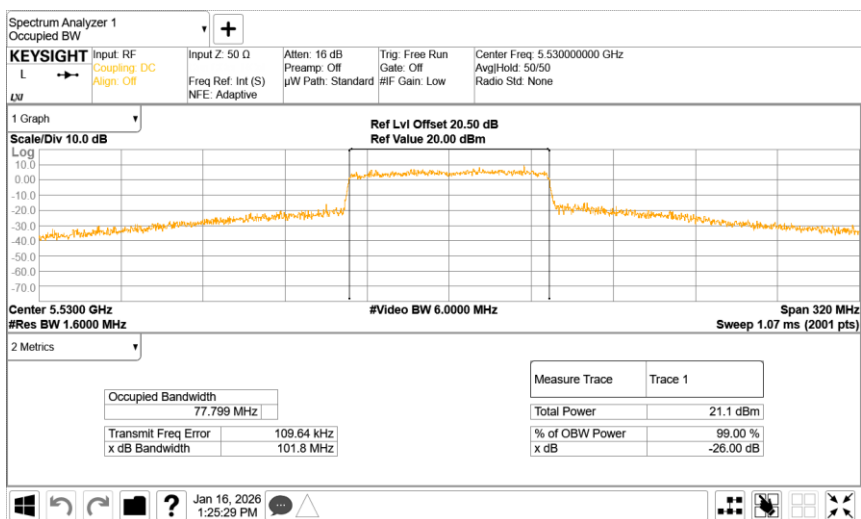
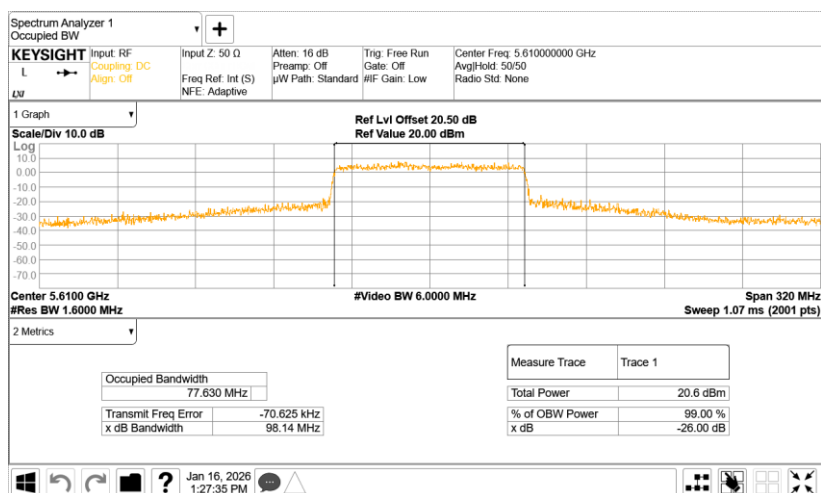


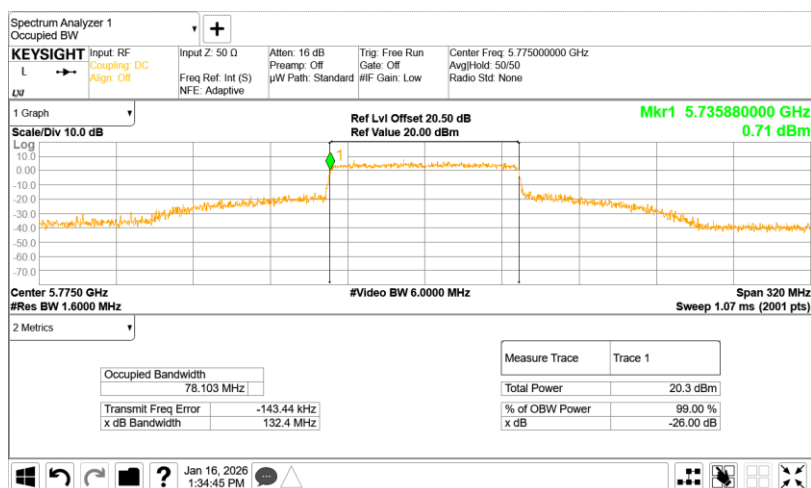
Chain0 : 99% OBW @ 802.11ax(HE80) Mode Ch106



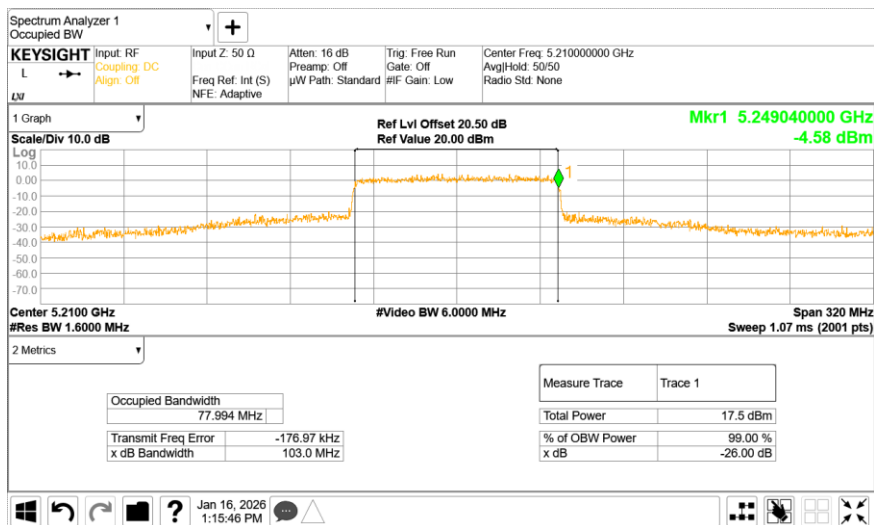
Chain0 : 99% OBW @ 802.11ax(HE80) Mode Ch122



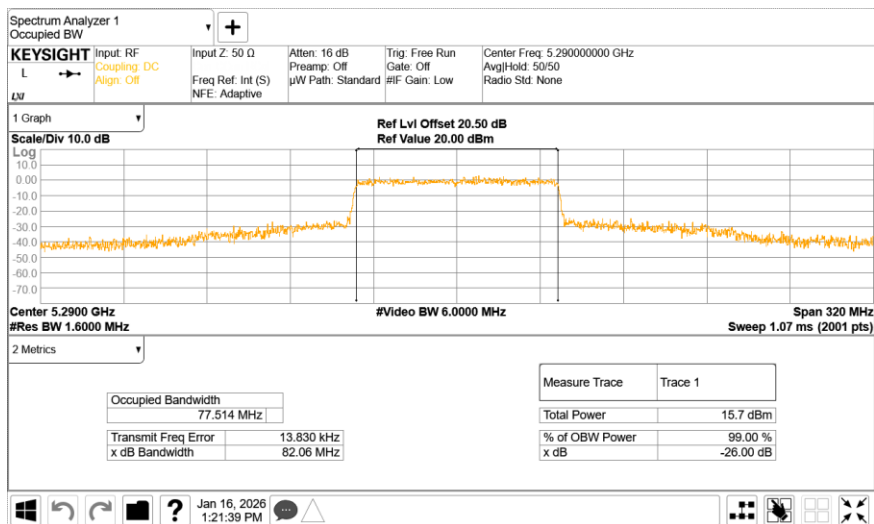
Chain0 : 99% OBW @ 802.11ax(HE80) Mode Ch155



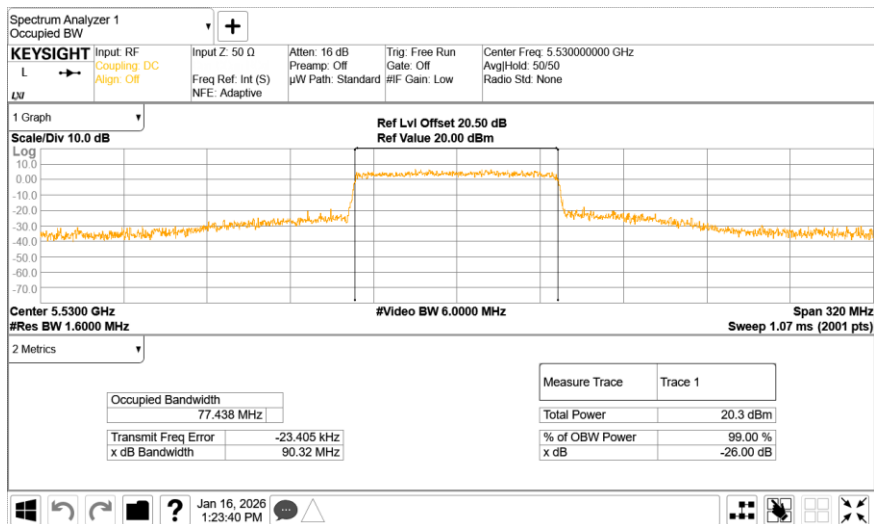
Chain1 : 99% OBW @ 802.11ax(HE80) Mode Ch42



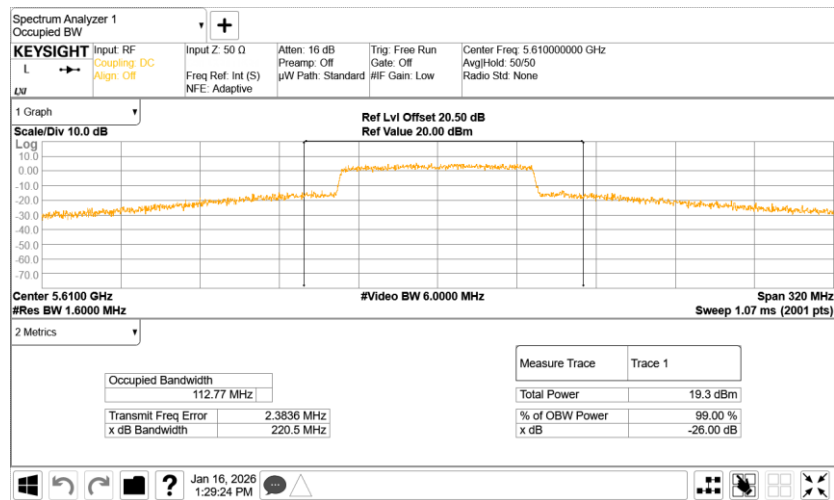
Chain1 : 99% OBW @ 802.11ax(HE80) Mode Ch58



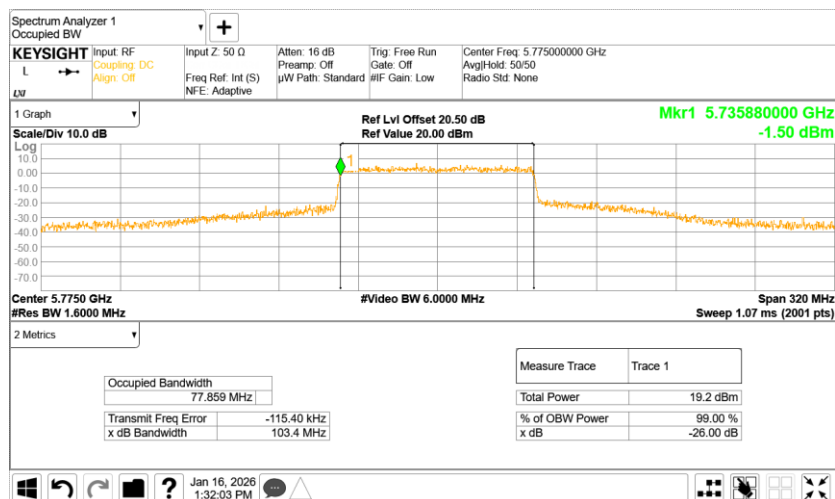
Chain1 : 99% OBW @ 802.11ax(HE80) Mode Ch106



Chain1 : 99% OBW @ 802.11ax(HE80) Mode Ch122



Chain1 : 99% OBW @ 802.11ax(HE80) Mode Ch155



5. Emissions in Restricted Frequency Bands (Radiated emission measurements)

5.1 Limit for emission in restricted frequency bands (Radiated emission measurement)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	2400/F(kHz)	30
1.705~30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

As specified in 15.407(b), For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

5.2 Measuring instrument setting

Below 1GHz measurement

Receiver settings	
Receiver function	Setting
Detector	QP
RBW	9-150 kHz ; 200-300 Hz 0.15-30 MHz; 9-10 kHz 30-1000 MHz; 100-120 kHz
VBW	$\geq 3 \times \text{RBW}$
Sweep	Auto couple
Attenuation	Auto

Above 1GHz measurement

Spectrum analyzer settings	
Spectrum Analyzer function	Setting
Detector	Peak ; Average
RBW	1MHz
VBW	3MHz for Peak; 1/T Minimum kHz for Average
Sweep	Auto couple
Start Frequency	1GHz
Stop Frequency	Tenth harmonic
Attenuation	Auto

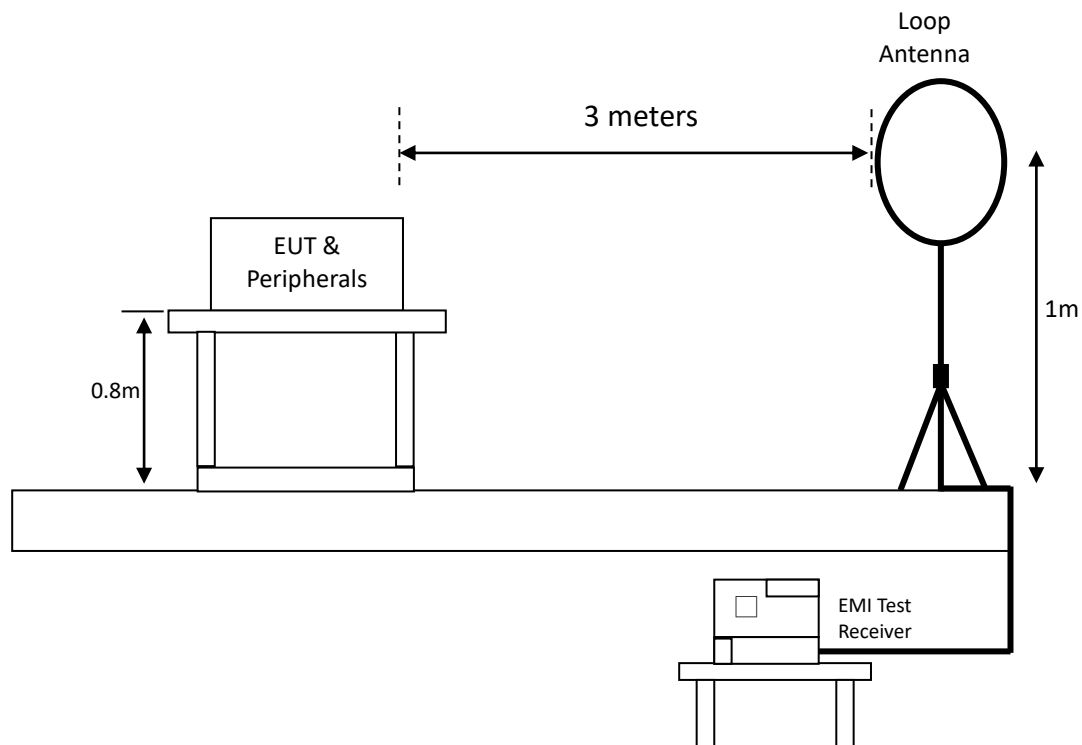
5.3 Test procedure

1. Configure the EUT according to ANSI C63.10: 2013 The EUT was placed on the top of the turntable 1.5 meter above ground for above 1GHz and placed on the top of the turntable 0.8 meter above ground for below 1GHz. The center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the companion devices. The turntable was rotated by 360 degree to find the position of the maximum emission level.
3. The height of the receiving antenna was varied between one meter and four meters above ground to find the maximum emission field strength of the both horizontal and vertical polarization
4. If find the frequencies above the limit or below within 3dB, the antenna tower was scan (from 1m to 4m) and then the turntable was rotated to find the maximum reading.
5. Set the test-receiver system to peak or CISPR quasi-peak detector with specified bandwidth under maximum hold mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
7. If the emissions level of the EUT in peak mode was 3dB lower than the average limit specified then testing will be stopped and peak values of the EUT will be reported. Otherwise, the emissions which do not have 3dB margin will be measured using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, The emissions level of the EUT in peak mode was lower than average limit, then testing will be stopped and peak values of the EUT will be reported, otherwise, the emission will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be quasi-peak measured by receiver.

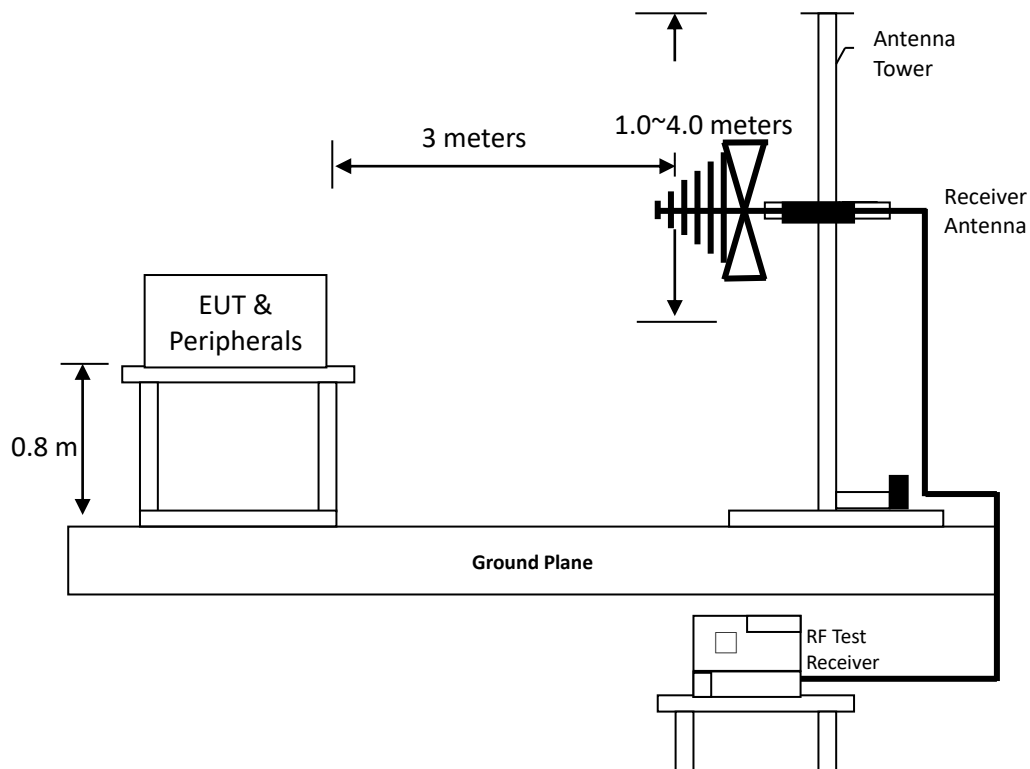
5.4 Test configuration

5.4.1 Radiated emission from 9 kHz to 30MHz using Loop Antenna

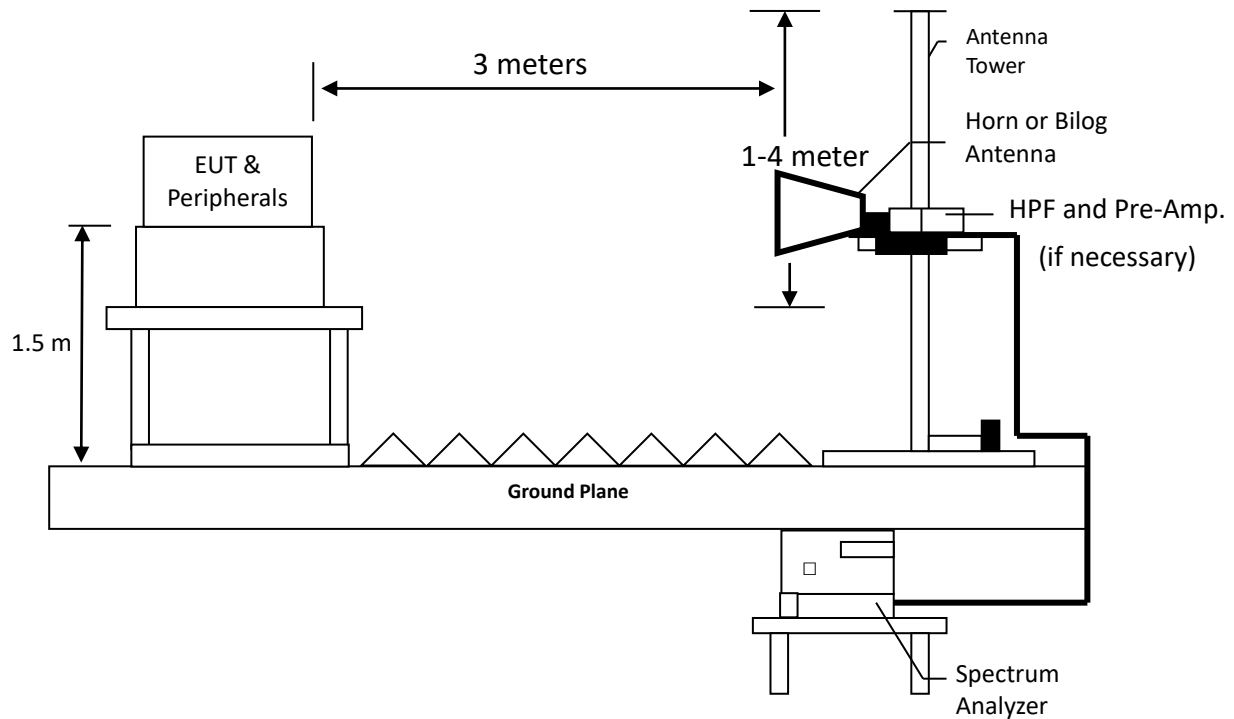
Radiated emission from 9kHz to 30MHz uses Loop Antenna:



Radiated emission below 1GHz using Bilog Antenna



Radiated emission above 1GHz using Horn Antenna



5.5 Test results

5.5.1 Measurement results: frequencies from 9 kHz to 30MHz

Test model:	68301
Temperature (°C):	18
Relative Humidity (%):	45
Test date:	2026/01/07

The test was performed on EUT under continuously transmitting mode. The worst case occurred at 802.11ax Chain0+1 Channel 100.

Ant Polarity	Frequency (MHz)	Detector	Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)
Perpendicular	0.55	PK	18.25	14.02	32.27	72.82	-40.55
Perpendicular	1.21	PK	18.38	11.25	29.63	65.96	-36.33
Perpendicular	1.48	PK	18.35	10.74	29.09	64.20	-35.11
Perpendicular	3.88	PK	18.84	9.27	28.11	69.54	-41.43
Perpendicular	6.19	PK	20.08	8.10	28.18	69.54	-41.36
Perpendicular	18.21	PK	21.54	7.61	29.15	69.54	-40.39

Remark: Corr. Factor = Antenna Factor + Cable Loss

Ant Polarity	Frequency (MHz)	Detector	Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)
Parallel	0.76	PK	18.40	11.93	30.33	70.00	-39.67
Parallel	1.93	PK	18.31	10.50	28.81	69.54	-40.73
Parallel	3.79	PK	18.79	9.15	27.94	69.54	-41.60
Parallel	5.44	PK	19.60	8.15	27.75	69.54	-41.79
Parallel	6.19	PK	20.08	8.09	28.17	69.54	-41.37
Parallel	18.12	PK	21.52	5.90	27.42	69.54	-42.12

Remark: Corr. Factor = Antenna Factor + Cable Loss

Ant Polarity	Frequency (MHz)	Detector	Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)
Ground-parallel	0.91	PK	18.40	11.27	29.67	68.44	-38.77
Ground-parallel	1.90	PK	18.31	10.22	28.53	69.54	-41.01
Ground-parallel	3.97	PK	18.88	9.42	28.30	69.54	-41.24
Ground-parallel	6.25	PK	20.07	7.85	27.92	69.54	-41.62
Ground-parallel	11.83	PK	20.80	7.22	28.02	69.54	-41.52
Ground-parallel	17.67	PK	21.37	6.20	27.57	69.54	-41.97

Remark: Corr. Factor = Antenna Factor + Cable Loss

5.5.2 Measurement results: frequencies from 30 MHz to 1GHz

Test model:	68301
Temperature (°C):	18
Relative Humidity (%):	45
Test date:	2026/01/07

The test was performed on EUT under continuously transmitting mode. The worst case occurred at 802.11ax Chain0+1 Channel 100.

Ant Polarity	Frequency (MHz)	Detector	Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)
Horizontal	62.98	PK	19.35	3.48	22.83	40.00	-17.17
Horizontal	139.61	PK	19.38	2.32	21.70	43.50	-21.80
Horizontal	305.48	PK	21.21	2.46	23.67	46.00	-22.33
Horizontal	321.97	PK	21.56	2.80	24.36	46.00	-21.64
Horizontal	397.63	PK	23.35	1.44	24.79	46.00	-21.21
Horizontal	489.78	PK	25.44	3.18	28.62	46.00	-17.38

Remark: Corr. Factor = Antenna Factor + Cable Loss

Ant Polarity	Frequency (MHz)	Detector	Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)
Vertical	60.07	PK	20.02	4.63	24.65	40.00	-15.35
Vertical	74.62	PK	17.14	8.66	25.80	40.00	-14.20
Vertical	157.07	PK	20.10	2.46	22.56	43.50	-20.94
Vertical	270.56	PK	20.20	1.76	21.96	46.00	-24.04
Vertical	325.85	PK	21.65	2.29	23.94	46.00	-22.06
Vertical	498.51	PK	25.63	3.64	29.27	46.00	-16.73

Remark: Corr. Factor = Antenna Factor + Cable Loss

Test model:	68307
Temperature (°C):	22
Relative Humidity (%):	74
Test date:	2026/05/06

The test was performed on EUT under continuously transmitting mode. The worst case occurred at 802.11ax Chain0+1 Channel 100.

Ant Polarity	Frequency (MHz)	Detector	Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)
Horizontal	57.16	PK	20.55	2.61	23.16	40.00	-16.84
Horizontal	210.42	PK	18.37	8.19	26.56	43.50	-16.94
Horizontal	243.40	PK	20.13	10.43	30.56	46.00	-15.44
Horizontal	288.99	PK	21.63	6.85	28.48	46.00	-17.52
Horizontal	394.72	PK	24.39	3.49	27.88	46.00	-18.12
Horizontal	504.42	PK	27.04	5.77	32.81	46.00	-13.19

Remark: Corr. Factor = Antenna Factor + Cable Loss

Ant Polarity	Frequency (MHz)	Detector	Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)
Vertical	35.82	PK	18.77	8.82	27.59	40.00	-12.41
Vertical	60.70	PK	20.31	11.82	32.13	40.00	-7.87
Vertical	237.58	PK	19.68	8.31	27.99	46.00	-18.01
Vertical	268.62	PK	20.98	8.83	29.81	46.00	-16.19
Vertical	408.30	PK	24.63	7.38	32.01	46.00	-13.99
Vertical	450.01	PK	26.15	7.82	33.97	46.00	-12.03

Remark: Corr. Factor = Antenna Factor + Cable Loss

5.5.3 Measurement results: frequency above 1GHz to 40GHz

Temperature (°C) :	21
Relative Humidity (%) :	72
Test date :	2025/12/31 ~ 2026/01/09

Chain0+1

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
802.11a_Ch36	10360	PK	H	9.20	36.61	45.81	74	-28.19
	15540	PK	H	13.77	37.56	51.33	74	-22.67
	10360	PK	V	9.20	36.78	45.98	74	-28.02
802.11a_Ch44	10440	PK	H	9.20	35.56	44.76	74	-29.24
	15660	PK	H	13.20	37.57	50.77	74	-23.23
	10440	PK	V	9.20	35.98	45.18	74	-28.82
	15660	PK	V	13.20	35.04	48.24	74	-25.76
802.11a_Ch48	10480	PK	H	9.17	36.55	45.72	74	-28.28
	15720	PK	H	13.04	36.68	49.72	74	-24.28
	10480	PK	V	9.17	35.74	44.91	74	-29.09
802.11a_Ch52	10520	PK	H	9.21	36.80	46.01	74	-27.99
	15780	PK	H	12.92	36.71	49.63	74	-24.37
	10520	PK	V	9.21	36.37	45.58	74	-28.42
	15780	PK	V	12.92	34.86	47.78	74	-26.22
802.11a_Ch60	10600	PK	H	9.44	38.17	47.61	74	-26.39
	10600	PK	V	9.44	37.36	46.80	74	-27.20
	15900	PK	V	12.36	34.93	47.29	74	-26.71
802.11a_Ch64	10640	PK	H	9.47	36.52	45.99	74	-28.01
	15960	PK	H	12.17	36.73	48.90	74	-25.10
	10640	PK	V	9.47	36.35	45.82	74	-28.18
802.11a_Ch100	11000	PK	H	10.56	35.66	46.22	74	-27.78
	11000	PK	V	10.56	36.38	46.94	74	-27.06
802.11a_Ch120	11200	PK	H	10.59	36.92	47.51	74	-26.49
	11200	PK	V	10.59	36.73	47.32	74	-26.68
802.11a_Ch140	11400	PK	H	11.72	35.20	46.92	74	-27.08
	11400	PK	V	11.72	33.97	45.69	74	-28.31
802.11a_Ch149	11490	PK	H	11.94	34.64	46.58	74	-27.42
	11490	PK	V	11.94	33.84	45.78	74	-28.22
802.11a_Ch157	11570	PK	H	11.96	36.89	48.85	74	-25.15
	11570	PK	V	11.96	34.82	46.78	74	-27.22

Remark: 1. Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain
2. The emissions were very low against the limit above 18 GHz.

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
802.11a_Ch165	11650	PK	H	11.95	34.32	46.27	74	-27.73
	11650	PK	V	11.95	36.04	47.99	74	-26.01
802.11ac(VHT20)_Ch36	10360	PK	H	9.20	36.94	46.14	74	-27.86
	15540	PK	H	13.77	36.49	50.26	74	-23.74
	10364	PK	V	9.21	36.90	46.11	74	-27.89
802.11ac(VHT20)_Ch44	10440	PK	H	9.20	35.55	44.75	74	-29.25
	15660	PK	H	13.20	36.49	49.69	74	-24.31
	10440	PK	V	9.20	36.40	45.60	74	-28.40
802.11ac(VHT20)_Ch48	10480	PK	H	9.17	36.30	45.47	74	-28.53
	15720	PK	H	13.04	35.95	48.99	74	-25.01
	10480	PK	V	9.17	36.72	45.89	74	-28.11
	15720	PK	V	13.04	34.74	47.78	74	-26.22
802.11ac(VHT20)_Ch52	10520	PK	H	9.21	36.66	45.87	74	-28.13
	15780	PK	H	12.92	34.45	47.37	74	-26.63
	10520	PK	V	9.21	35.90	45.11	74	-28.89
802.11ac(VHT20)_Ch60	10600	PK	H	9.44	38.66	48.10	74	-25.90
	15900	PK	H	12.36	37.09	49.45	74	-24.55
	10600	PK	V	9.44	36.73	46.17	74	-27.83
802.11ac(VHT20)_Ch64	10640	PK	H	9.47	36.74	46.21	74	-27.79
	15960	PK	H	12.17	36.54	48.71	74	-25.29
	10640	PK	V	9.47	36.49	45.96	74	-28.04
	15960	PK	V	12.17	36.07	48.24	74	-25.76
802.11ac(VHT20)_Ch100	11000	PK	H	10.56	35.89	46.45	74	-27.55
	11000	PK	V	10.56	36.00	46.56	74	-27.44
802.11ac(VHT20)_Ch120	11200	PK	H	10.59	35.32	45.91	74	-28.09
	11200	PK	V	10.59	36.19	46.78	74	-27.22
802.11ac(VHT20)_Ch140	11400	PK	H	11.72	34.82	46.54	74	-27.46
	11400	PK	V	11.72	35.15	46.87	74	-27.13
802.11ac(VHT20)_Ch149	11490	PK	H	11.94	34.67	46.61	74	-27.39
	11490	PK	V	11.94	33.79	45.73	74	-28.27
802.11ac(VHT20)_Ch157	11570	PK	H	11.96	35.11	47.07	74	-26.93
	11570	PK	V	11.96	34.32	46.28	74	-27.72
802.11ac(VHT20)_Ch165	11650	PK	H	11.95	34.67	46.62	74	-27.38
	11650	PK	V	11.95	33.75	45.70	74	-28.30

Remark: 1. Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain
2. The emissions were very low against the limit above 18 GHz.

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
802.11ac(VHT40)_Ch38	10380	PK	H	9.20	36.04	45.24	74	-28.76
	15570	PK	H	13.58	35.12	48.70	74	-25.30
	10380	PK	V	9.20	35.91	45.11	74	-28.89
802.11ac(VHT40)_Ch46	10460	PK	H	9.18	38.42	47.60	74	-26.40
	15690	PK	H	13.13	36.93	50.06	74	-23.94
	10460	PK	V	9.18	35.98	45.16	74	-28.84
	15690	PK	V	13.13	34.92	48.05	74	-25.95
802.11ac(VHT40)_Ch54	10540	PK	H	9.27	36.51	45.78	74	-28.22
	15810	PK	H	12.81	33.03	45.84	74	-28.16
	10540	PK	V	9.27	36.55	45.82	74	-28.18
802.11ac(VHT40)_Ch62	10620	PK	H	9.45	36.36	45.81	74	-28.19
	10620	PK	V	9.45	36.92	46.37	74	-27.63
802.11ac(VHT40)_Ch102	11020	PK	H	10.59	35.96	46.55	74	-27.45
	11020	PK	V	10.59	35.02	45.61	74	-28.39
802.11ac(VHT40)_Ch118	11180	PK	H	10.62	35.16	45.78	74	-28.22
	11180	PK	V	10.62	35.14	45.76	74	-28.24
802.11ac(VHT40)_Ch134	11340	PK	H	11.31	35.41	46.72	74	-27.28
	11340	PK	V	11.31	36.09	47.40	74	-26.60
802.11ac(VHT40)_Ch151	11510	PK	H	11.96	34.37	46.33	74	-27.67
	11510	PK	V	11.96	34.30	46.26	74	-27.74
802.11ac(VHT40)_Ch159	11590	PK	H	11.96	34.87	46.83	74	-27.17
	11590	PK	V	11.96	33.92	45.88	74	-28.12
802.11ac(VHT80)_Ch42	10420	PK	H	9.21	36.78	45.99	74	-28.01
	10420	PK	V	9.21	36.79	46.00	74	-28.00
802.11ac(VHT80)_Ch58	10580	PK	H	9.39	35.95	45.34	74	-28.66
	10580	PK	V	9.39	35.89	45.28	74	-28.72
802.11ac(VHT80)_Ch106	11060	PK	H	10.65	35.23	45.88	74	-28.12
	11060	PK	V	10.65	35.32	45.97	74	-28.03
802.11ac(VHT80)_Ch122	11220	PK	H	10.68	35.13	45.81	74	-28.19
	11220	PK	V	10.68	35.62	46.30	74	-27.70
802.11ac(VHT80)_Ch155	11550	PK	H	11.96	35.07	47.03	74	-26.97
	11550	PK	V	11.96	33.64	45.60	74	-28.40
802.11ax(HE20)_Ch36	10360	PK	H	9.20	37.20	46.40	74	-27.60
	15540	PK	H	13.77	37.27	51.04	74	-22.96
	10360	PK	V	9.20	36.35	45.55	74	-28.45

Remark: 1. Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain
2. The emissions were very low against the limit above 18 GHz.

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
802.11ax(HE20)_Ch44	10440	PK	H	9.20	36.76	45.96	74	-28.04
	15660	PK	H	13.20	37.69	50.89	74	-23.11
	10440	PK	V	9.20	36.52	45.72	74	-28.28
802.11ax(HE20)_Ch48	10480	PK	H	9.17	36.27	45.44	74	-28.56
	15720	PK	H	13.04	42.01	55.05	74	-18.95
	15720	AV	H	13.04	30.38	43.42	54	-10.58
	10480	PK	V	9.17	37.85	47.02	74	-26.98
802.11ax(HE20)_Ch52	10520	PK	H	9.21	37.93	47.14	74	-26.86
	15780	PK	H	12.92	39.26	52.18	74	-21.82
	10520	PK	V	9.21	36.26	45.47	74	-28.53
802.11ax(HE20)_Ch60	10600	PK	H	9.44	37.97	47.41	74	-26.59
	10600	PK	V	9.44	37.45	46.89	74	-27.11
802.11ax(HE20)_Ch64	10640	PK	H	9.47	36.60	46.07	74	-27.93
	15960	PK	H	12.17	36.12	48.29	74	-25.71
	10640	PK	V	9.47	36.27	45.74	74	-28.26
	15960	PK	V	12.17	33.68	45.85	74	-28.15
802.11ax(HE20)_Ch100	11000	PK	H	10.56	35.93	46.49	74	-27.51
	11000	PK	V	10.56	36.31	46.87	74	-27.13
802.11ax(HE20)_Ch120	11200	PK	H	10.59	35.08	45.67	74	-28.33
	11200	PK	V	10.59	35.88	46.47	74	-27.53
802.11ax(HE20)_Ch140	11400	PK	H	11.72	35.02	46.74	74	-27.26
	11400	PK	V	11.72	34.49	46.21	74	-27.79
802.11ax(HE20)_Ch144	11440	PK	H	11.82	35.10	46.92	74	-27.08
	11440	PK	V	11.82	35.39	47.21	74	-26.79
802.11ax(HE20)_Ch149	11490	PK	H	11.94	34.96	46.90	74	-27.10
	11490	PK	V	11.94	34.60	46.54	74	-27.46
802.11ax(HE20)_Ch157	11570	PK	H	11.96	34.84	46.80	74	-27.20
	11570	PK	V	11.96	35.89	47.85	74	-26.15
802.11ax(HE20)_Ch165	11650	PK	H	11.95	34.30	46.25	74	-27.75
	11650	PK	V	11.95	34.31	46.26	74	-27.74
802.11ax(HE40)_Ch38	10380	PK	H	9.20	36.94	46.14	74	-27.86
	15570	PK	H	13.58	35.96	49.54	74	-24.46
	10380	PK	V	9.20	37.47	46.67	74	-27.33

Remark: 1. Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain
2. The emissions were very low against the limit above 18 GHz.

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
802.11ax(HE40)_Ch46	10460	PK	H	9.18	36.45	45.63	74	-28.37
	15690	PK	H	13.13	36.41	49.54	74	-24.46
	10460	PK	V	9.18	36.78	45.96	74	-28.04
802.11ax(HE40)_Ch54	10540	PK	H	9.27	36.40	45.67	74	-28.33
	15810	PK	H	12.81	36.81	49.62	74	-24.38
	10540	PK	V	9.27	36.32	45.59	74	-28.41
802.11ax(HE40)_Ch62	10620	PK	H	9.45	37.62	47.07	74	-26.93
	10620	PK	V	9.45	37.48	46.93	74	-27.07
802.11ax(HE40)_Ch102	11020	PK	H	10.59	35.86	46.45	74	-27.55
	11020	PK	V	10.59	36.14	46.73	74	-27.27
802.11ax(HE40)_Ch118	11180	PK	H	10.62	35.66	46.28	74	-27.72
	11180	PK	V	10.62	35.09	45.71	74	-28.29
802.11ax(HE40)_Ch134	11340	PK	H	11.31	34.92	46.23	74	-27.77
	11340	PK	V	11.31	35.22	46.53	74	-27.47
802.11ax(HE40)_Ch142	11420	PK	H	11.77	35.62	47.39	74	-26.61
	11420	PK	V	11.77	34.72	46.49	74	-27.51
802.11ax(HE40)_Ch151	11510	PK	H	11.96	35.04	47.00	74	-27.00
	11510	PK	V	11.96	35.13	47.09	74	-26.91
802.11ax(HE40)_Ch159	11590	PK	H	11.96	34.00	45.96	74	-28.04
	11590	PK	V	11.96	35.18	47.14	74	-26.86
802.11ax(HE80)_Ch42	10420	PK	H	9.21	36.14	45.35	74	-28.65
	15630	PK	H	13.30	34.94	48.24	74	-25.76
	10420	PK	V	9.21	35.63	44.84	74	-29.16
802.11ax(HE80)_Ch58	10580	PK	H	9.39	35.83	45.22	74	-28.78
	10580	PK	V	9.39	35.49	44.88	74	-29.12
802.11ax(HE80)_Ch106	11060	PK	H	10.65	35.41	46.06	74	-27.94
	11060	PK	V	10.65	35.48	46.13	74	-27.87
802.11ax(HE80)_Ch122	11220	PK	H	10.68	35.67	46.35	74	-27.65
	11220	PK	V	10.68	34.48	45.16	74	-28.84
802.11ax(HE80)_Ch138	11380	PK	H	11.58	34.70	46.28	74	-27.72
	11380	PK	V	11.58	34.54	46.12	74	-27.88
802.11ax(HE80)_Ch155	11550	PK	H	11.96	34.26	46.22	74	-27.78
	11550	PK	V	11.96	34.03	45.99	74	-28.01

Remark: 1. Correction Factor = Antenna Factor + Cable Loss + High Pass Filter Loss - Pre_Amplifier Gain
2. The emissions were very low against the limit above 18 GHz.

6. Emission on The Band Edge

6.1 Measuring instrument setting

For 5.15 GHz -5.25 GHz

Spectrum analyzer settings	
Spectrum Analyzer function	Setting
Detector	Peak ; Average
RBW	1MHz
VBW	3MHz for Peak; 1/T Minimum kHz for Average
Sweep	Auto couple
Restrict bands	4500~5150MHz
	5350 ~5460MHz
Attenuation	Auto

For 5.725 GHz -5.850 GHz

Spectrum analyzer settings	
Spectrum Analyzer function	Setting
Detector	Peak
RBW	1MHz
VBW	3MHz
Sweep	Auto couple
Attenuation	Auto

6.2 Test procedure

The test procedure is the same as clause 5.3.

6.3 Limit for Band Edge (Radiated emission measurement)

Refer to clause 5.1.

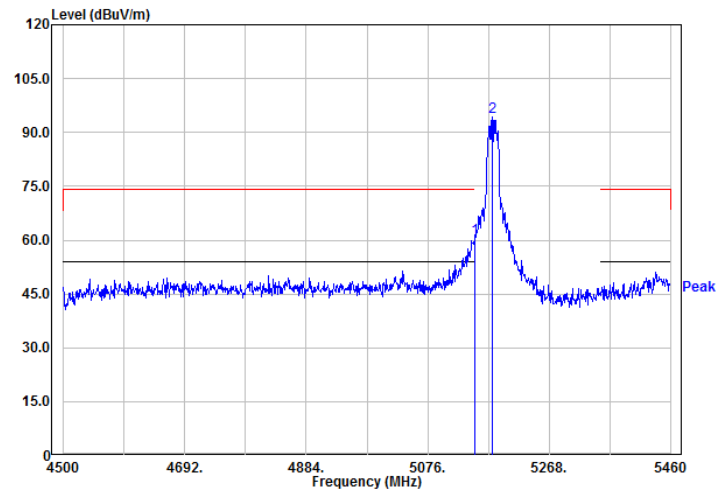
6.4 Test Result

Temperature (°C) :	21
Relative Humidity (%) :	72
Test date :	2025/12/30 ~ 2025/12/31

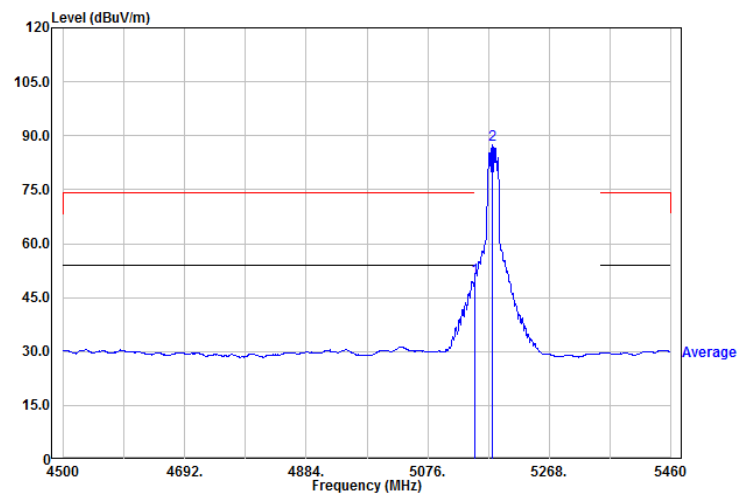
Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)	Restricted band (MHz)
802.11a_Ch36	5150.00	PK	V	40.50	19.91	60.41	74	-13.59	4500~5150
	5150.00	AV	V	40.50	9.88	50.38	54	-3.62	
802.11a_Ch64	5350.00	PK	V	40.25	12.15	52.40	74	-21.60	5350~5460
	5350.00	AV	V	40.25	0.63	40.88	54	-13.12	
802.11a_Ch100	5460.00	PK	V	41.03	9.25	50.28	68.2	-17.92	5350~5460
	5460.00	AV	V	41.03	-2.39	38.64	54	-15.36	
802.11ac_Ch36 (VHT20)	5150.00	PK	V	40.50	17.79	58.29	74	-15.71	4500~5150
	5150.00	AV	V	40.50	8.98	49.48	54	-4.52	
802.11ac_Ch64 (VHT20)	5424.48	PK	V	40.79	9.36	50.15	74	-23.85	5350~5460
	5350.00	AV	V	40.25	-5.90	34.35	54	-19.65	
802.11ac_Ch100 (VHT20)	5457.55	PK	V	41.02	9.99	51.01	74	-22.99	5350~5460
	5460.00	AV	V	41.03	-5.90	35.13	54	-18.87	
802.11ac_Ch38 (VHT40)	5150.00	PK	V	40.50	24.44	64.94	74	-9.06	4500~5150
	5150.00	AV	V	40.50	12.35	52.85	54	-1.15	
802.11ac_Ch62 (VHT40)	5350.00	PK	V	40.25	20.16	60.41	74	-13.59	5350~5460
	5350.00	AV	V	40.25	8.36	48.61	54	-5.39	
802.11ac_Ch102 (VHT40)	5460.00	PK	V	41.03	14.70	55.73	68.2	-12.47	5350~5460
	5460.00	AV	V	41.03	4.46	45.49	54	-8.51	
802.11ac_Ch42 (VHT80)	5150.00	PK	V	40.50	16.64	57.14	74	-16.86	4500~5150
	5150.00	AV	V	40.50	8.43	48.93	54	-5.07	
802.11ac_Ch58 (VHT80)	5350.00	PK	V	40.25	10.47	50.72	74	-23.28	5350~5460
	5350.00	AV	V	40.25	-1.23	39.02	54	-14.98	
802.11ac_Ch106 (VHT80)	5460.00	PK	V	41.03	15.35	56.38	68.2	-11.82	5350~5460
	5460.00	AV	V	41.03	2.44	43.47	54	-10.53	
802.11ax_Ch36 (HE20)	5150.00	PK	V	40.50	18.58	59.08	74	-14.92	4500~5150
	5150.00	AV	V	40.50	10.24	50.74	54	-3.26	
802.11ax_Ch64 (HE20)	5350.00	PK	V	40.25	5.95	46.20	74	-27.80	5350~5460
	5350.00	AV	V	40.25	-0.45	39.80	54	-14.20	
802.11ax_Ch100 (HE20)	5460.00	PK	V	41.03	8.08	49.11	68.2	-19.09	5350~5460
	5460.00	AV	V	41.03	-7.14	33.89	54	-20.11	

Mode	Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)	Restricted band (MHz)
802.11ax_Ch38 (HE40)	5150.00	PK	V	40.50	18.98	59.48	74	-14.52	4500~5150
	5150.00	AV	V	40.50	9.47	49.97	54	-4.03	
802.11ax_Ch62 (HE40)	5350.00	PK	V	40.25	11.83	52.08	74	-21.92	5350~5460
	5350.00	AV	V	40.25	7.50	47.75	54	-6.25	
802.11ax_Ch102 (HE40)	5460.00	PK	V	41.03	12.98	54.01	68.2	-14.19	5350~5460
	5460.00	AV	V	41.03	1.86	42.89	54	-11.11	
802.11ax_Ch42 (HE80)	5150.00	PK	V	40.50	14.44	54.94	74	-19.06	4500~5150
	5150.00	AV	V	40.50	10.49	50.99	54	-3.01	
802.11ax_Ch58 (HE80)	5350.00	PK	V	40.25	9.95	50.20	74	-23.80	5350~5460
	5350.00	AV	V	40.25	5.98	46.23	54	-7.77	
802.11ax_Ch106 (HE80)	5460.00	PK	V	41.03	12.60	53.63	68.2	-14.57	5350~5460
	5460.00	AV	V	41.03	5.53	46.56	54	-7.44	

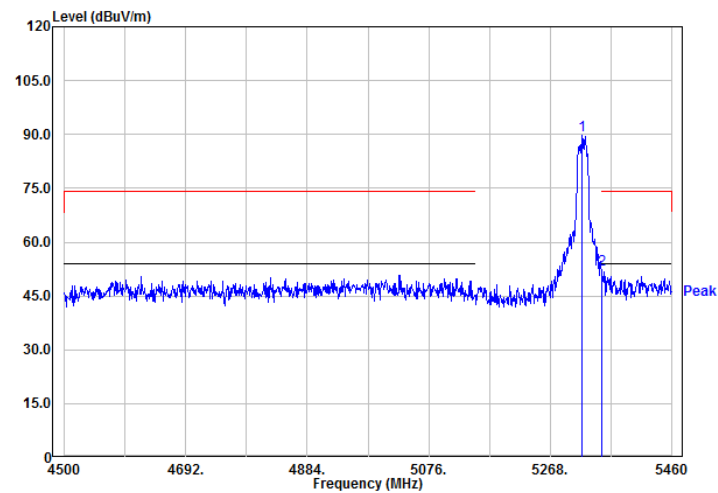
Chain0+1 : Restricted Band Bandedge @ 802.11a Mode Ch36 PK



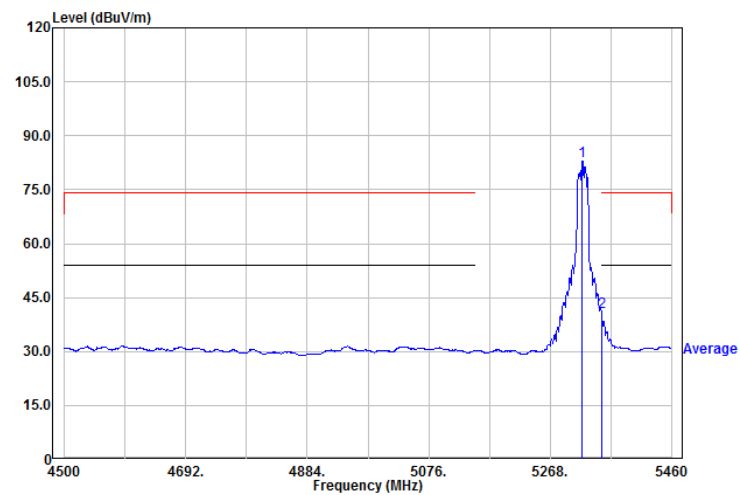
Chain0+1 : Restricted Band Bandedge @ 802.11a Mode Ch36 AV



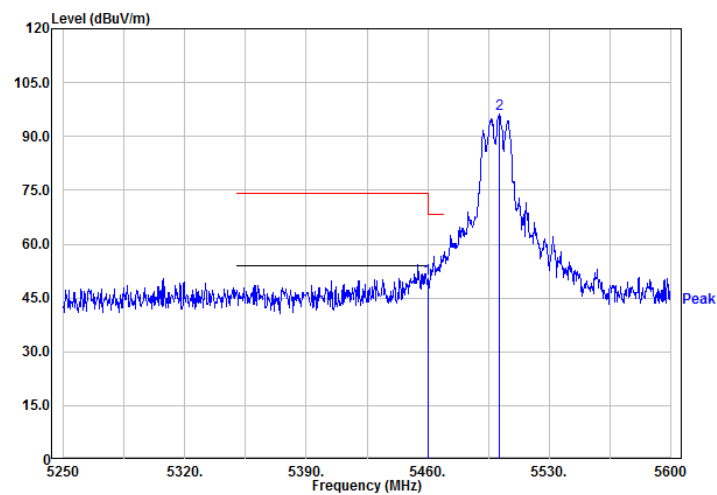
Chain0+1 : Restricted Band Bandedge @ 802.11a Mode Ch64 PK



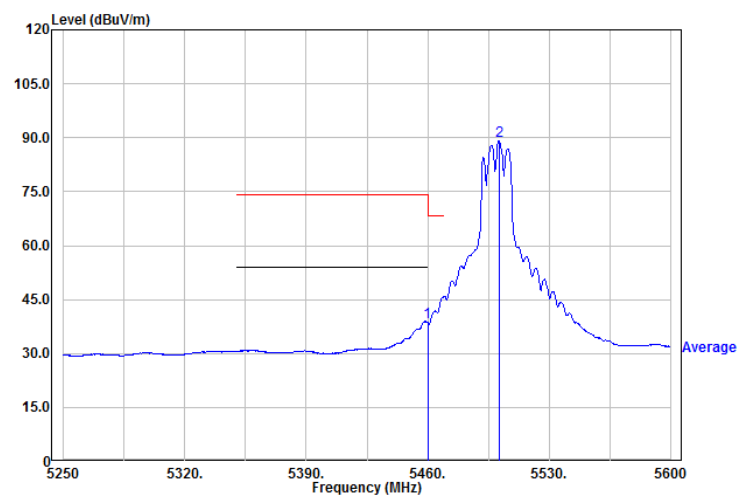
Chain0+1 : Restricted Band Bandedge @ 802.11a Mode Ch64 AV



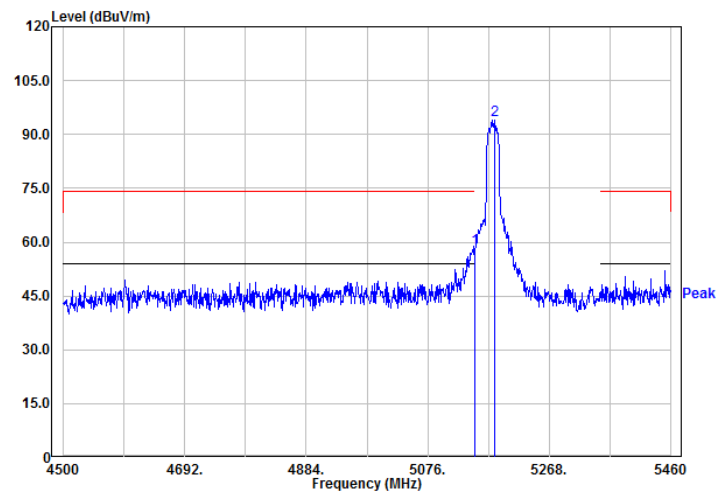
Chain0+1 : Restricted Band Bandedge @ 802.11a Mode Ch100 PK



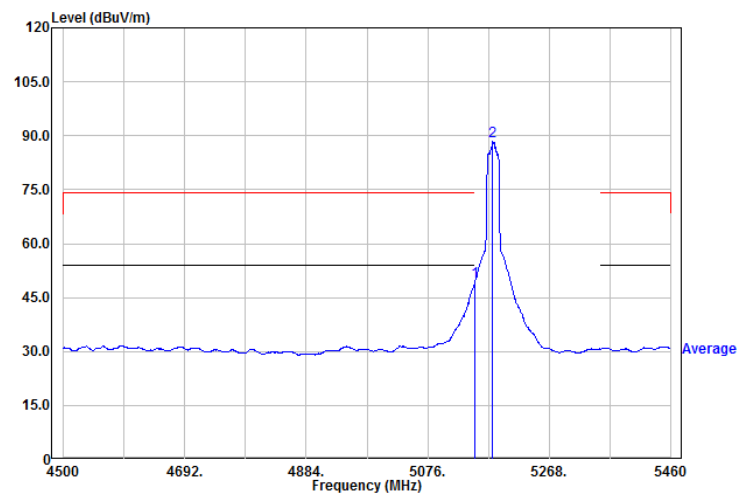
Chain0+1 : Restricted Band Bandedge @ 802.11a Mode Ch100 AV



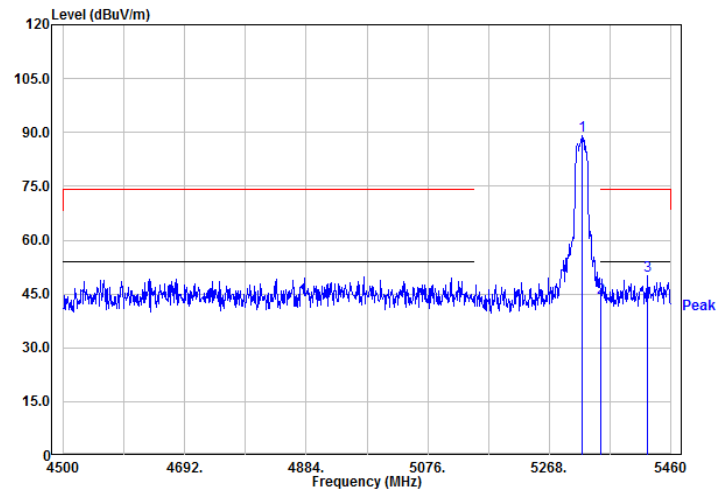
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT20) Mode Ch36 PK



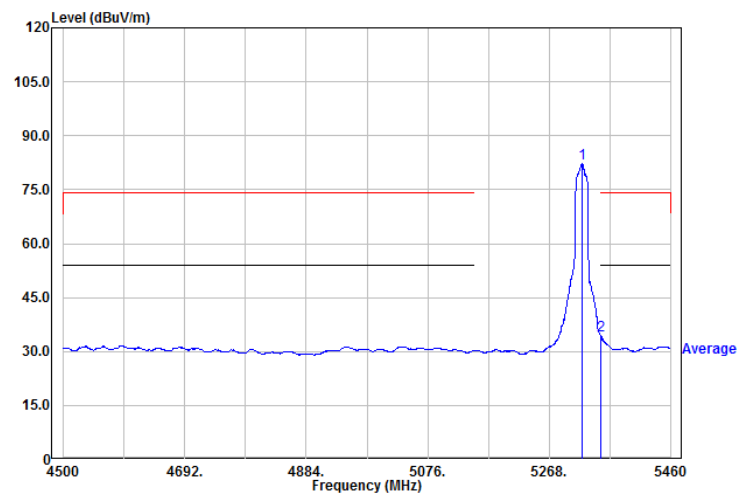
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT20) Mode Ch36 AV



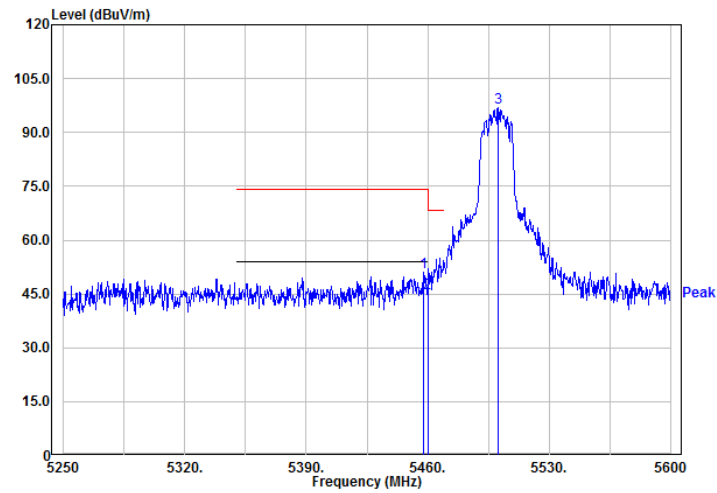
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT20) Mode Ch64 PK



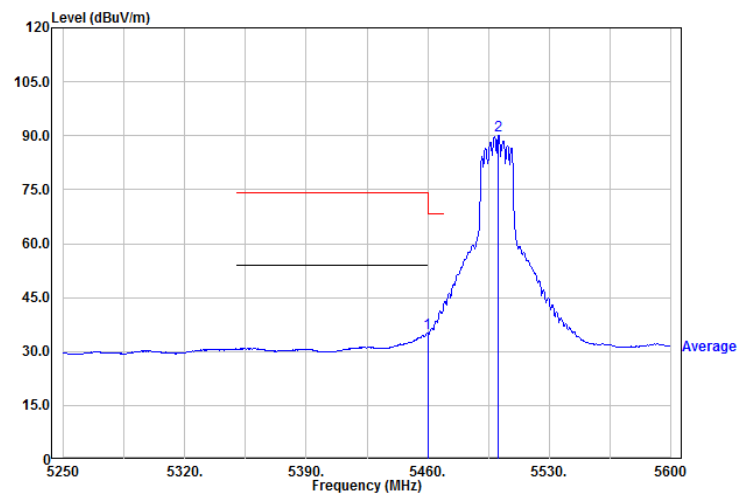
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT20) Mode Ch64 AV



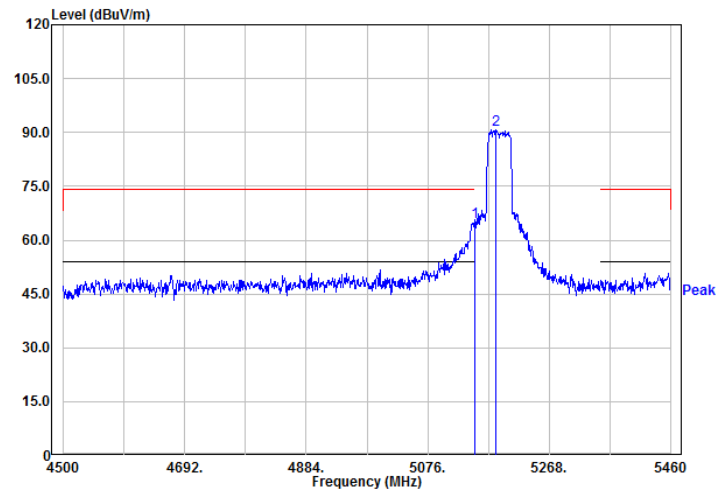
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT20) Mode Ch100 PK



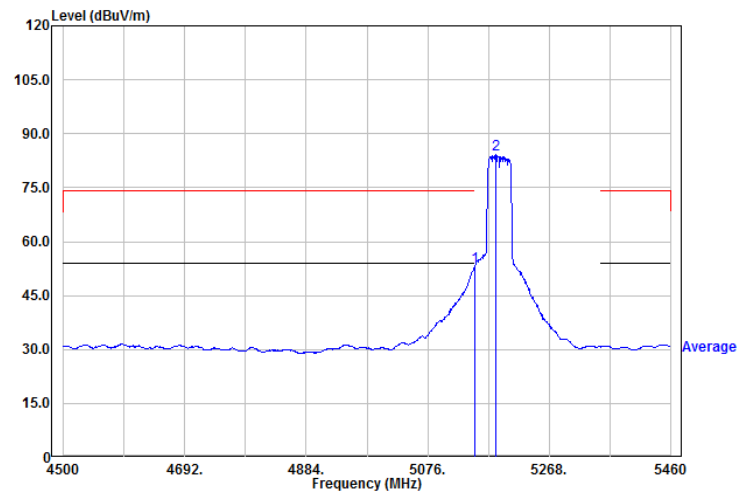
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT20) Mode Ch100 AV



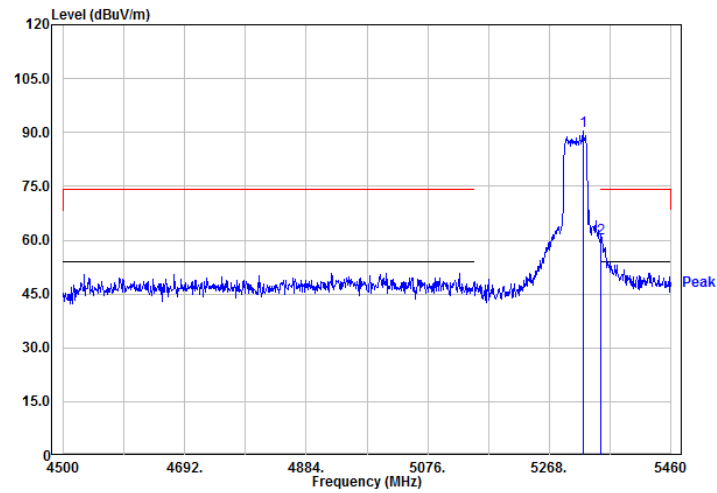
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT40) Mode Ch38 PK



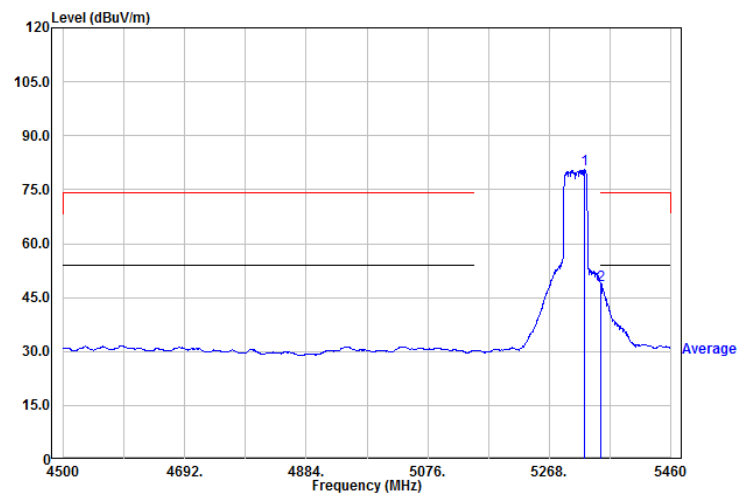
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT40) Mode Ch38 AV



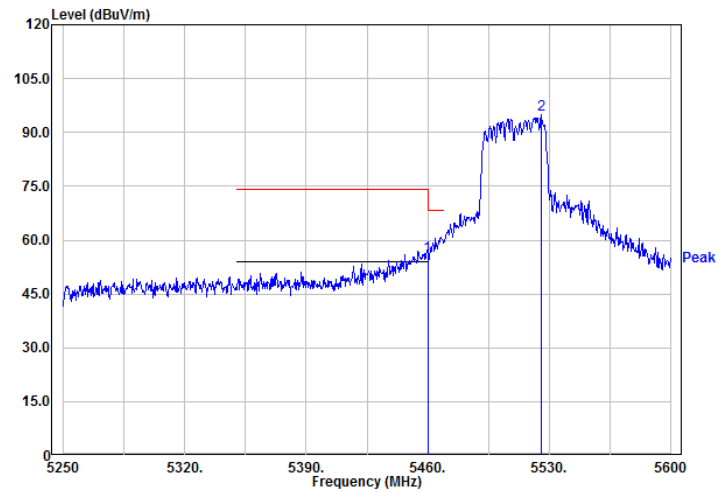
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT40) Mode Ch62 PK



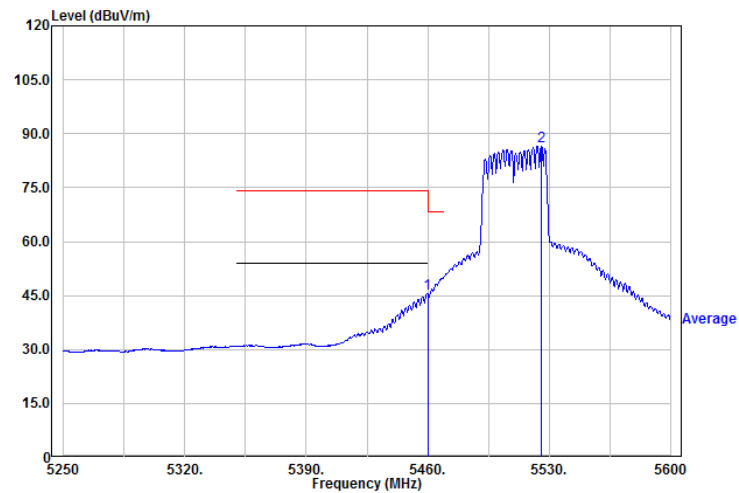
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT40) Mode Ch62 AV



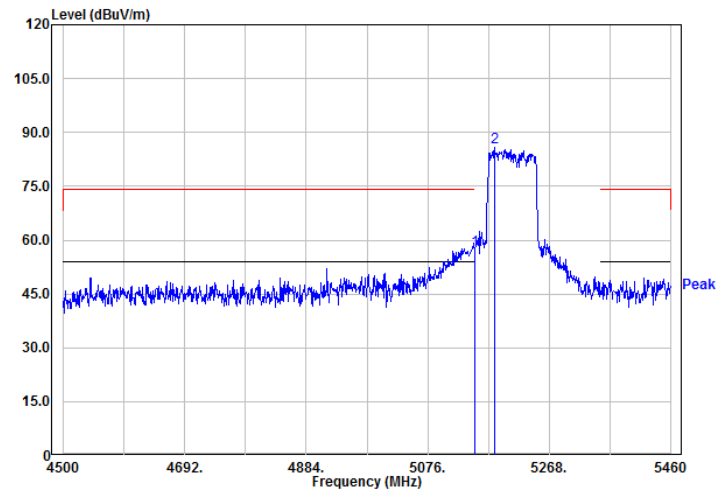
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT40) Mode Ch102 PK



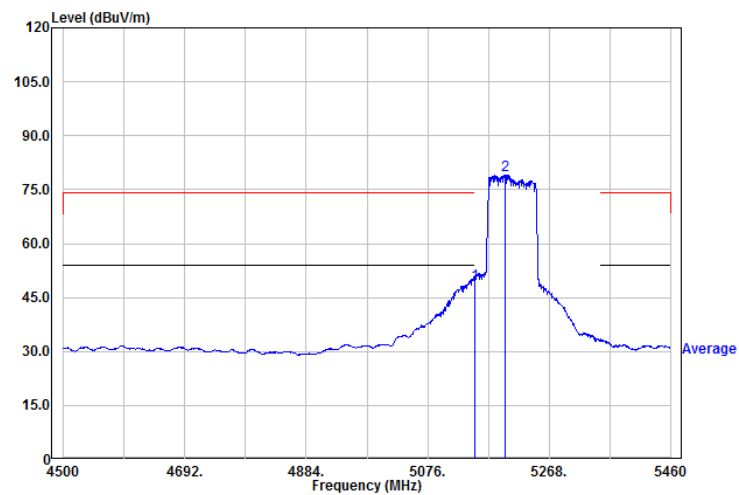
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT40) Mode Ch102 AV



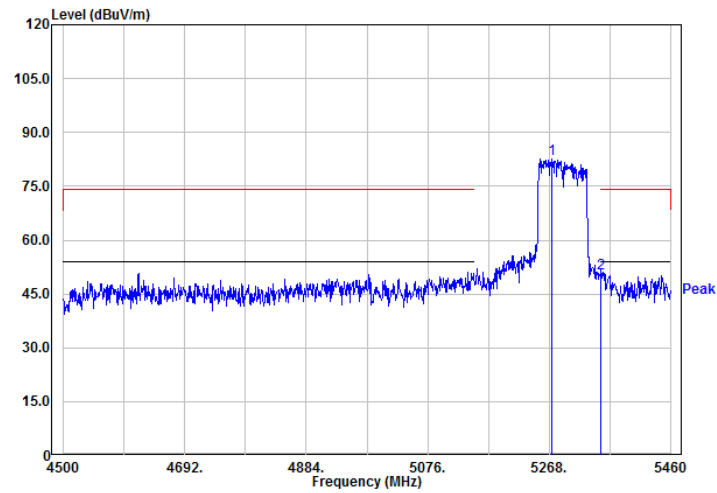
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT80) Mode Ch42 PK



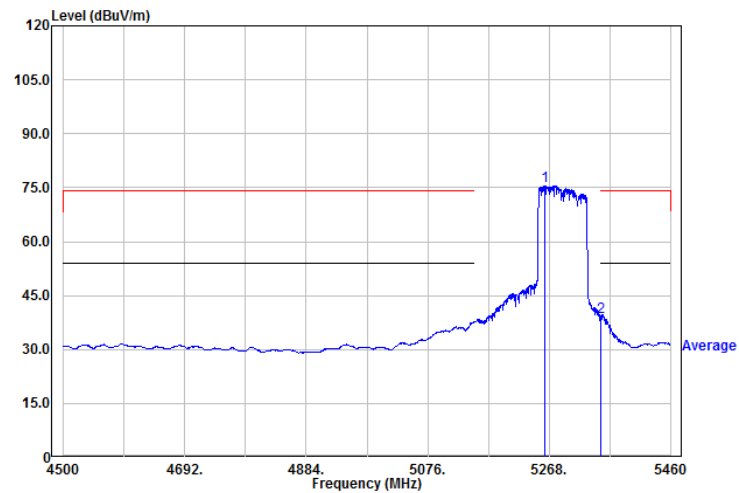
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT80) Mode Ch42 AV



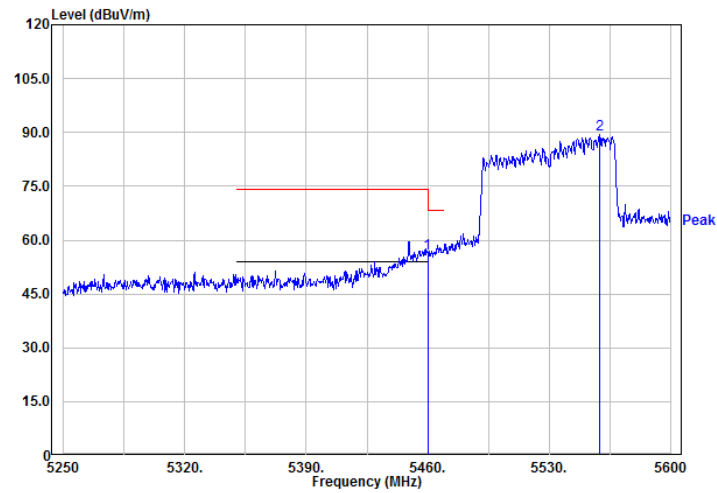
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT80) Mode Ch58 PK



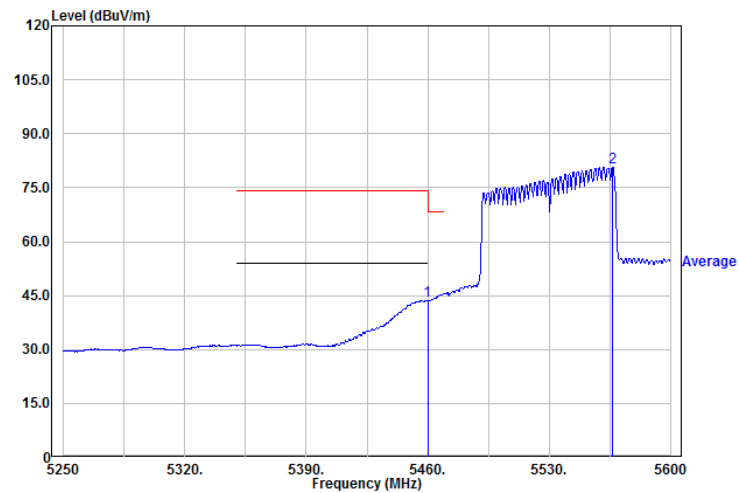
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT80) Mode Ch58 AV



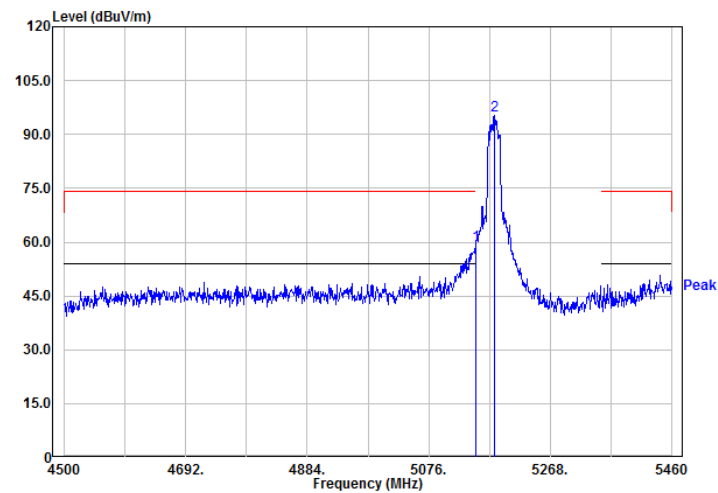
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT80) Mode Ch106 PK



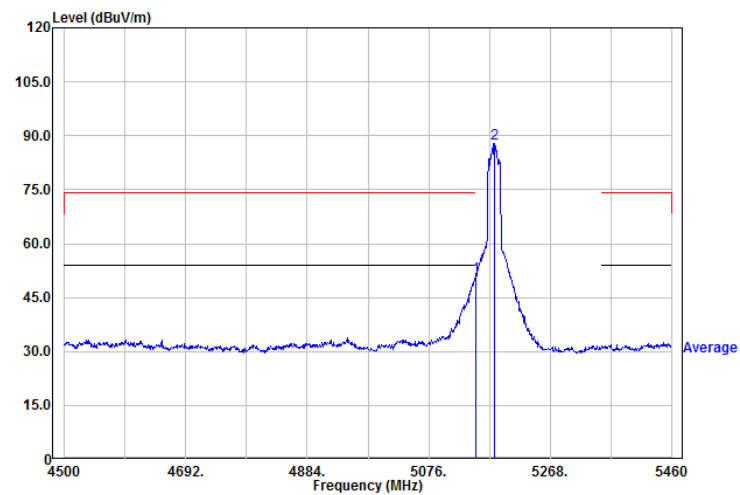
Chain0+1 : Restricted Band Bandedge @ 802.11ac(VHT80) Mode Ch106 AV



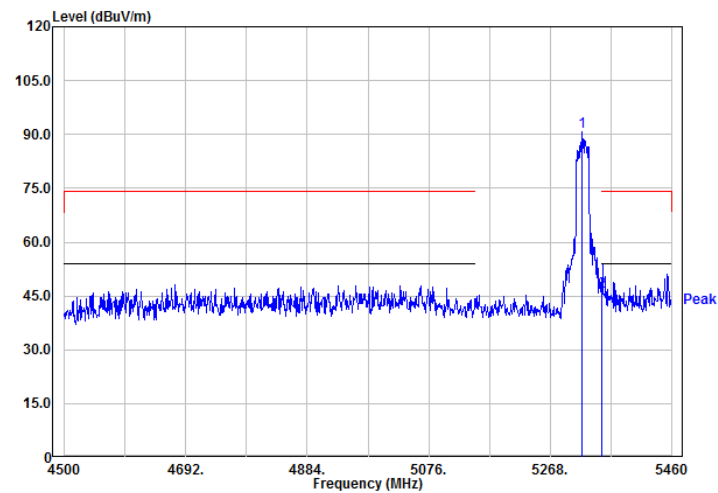
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE20) Mode Ch36 PK



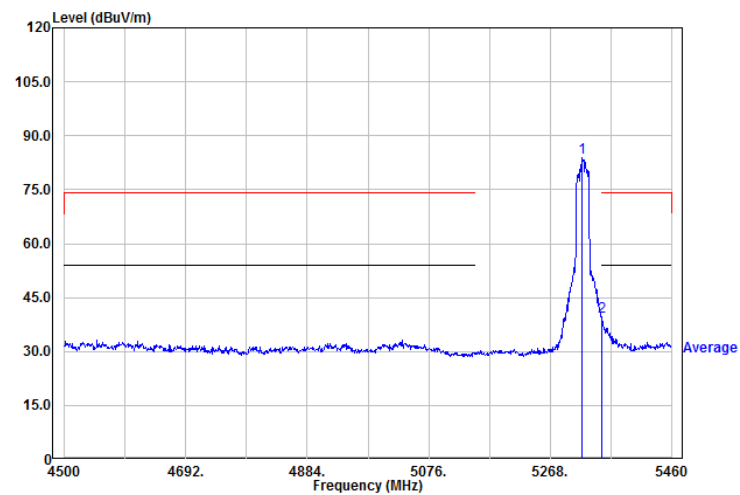
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE20) Mode Ch36 AV



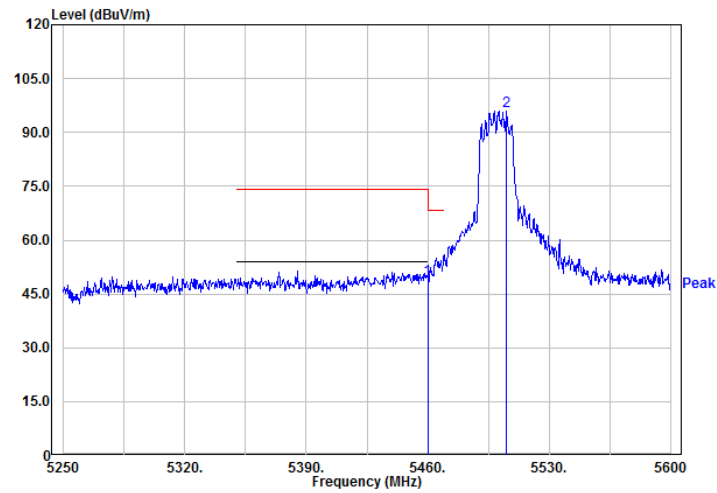
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE20) Mode Ch64 PK



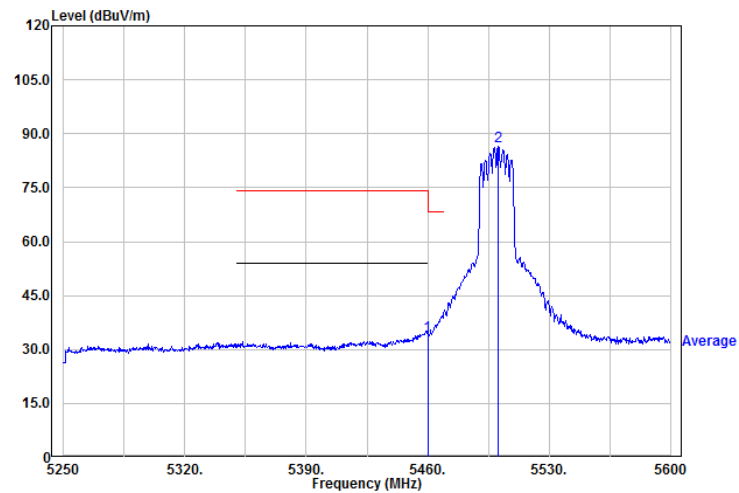
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE20) Mode Ch64 AV



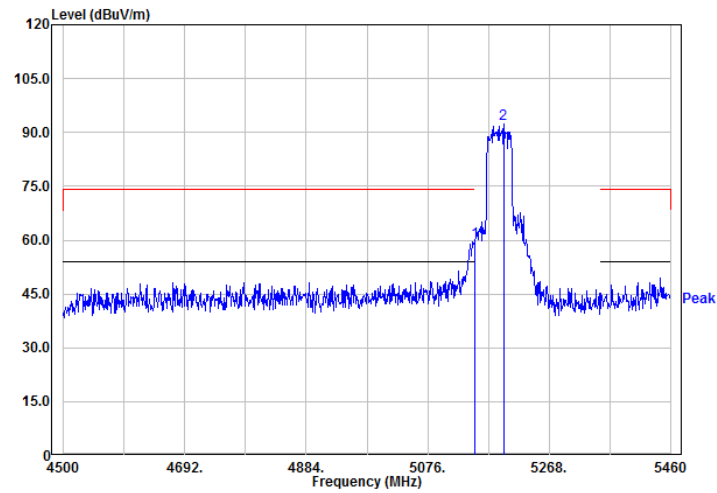
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE20) Mode Ch100 PK



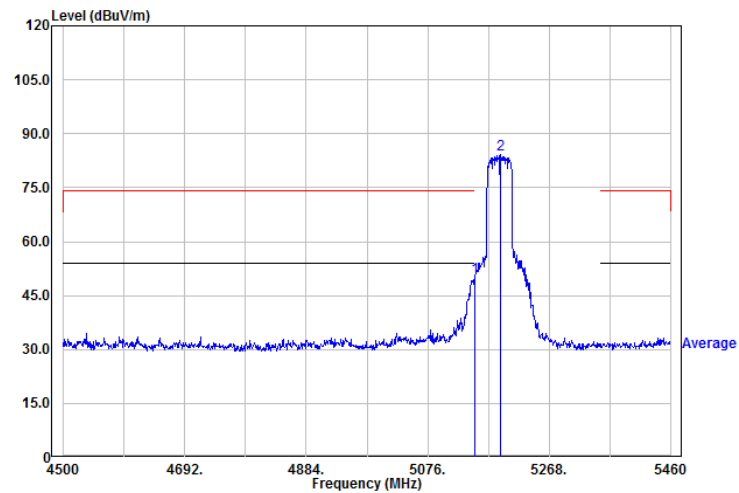
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE20) Mode Ch100 AV



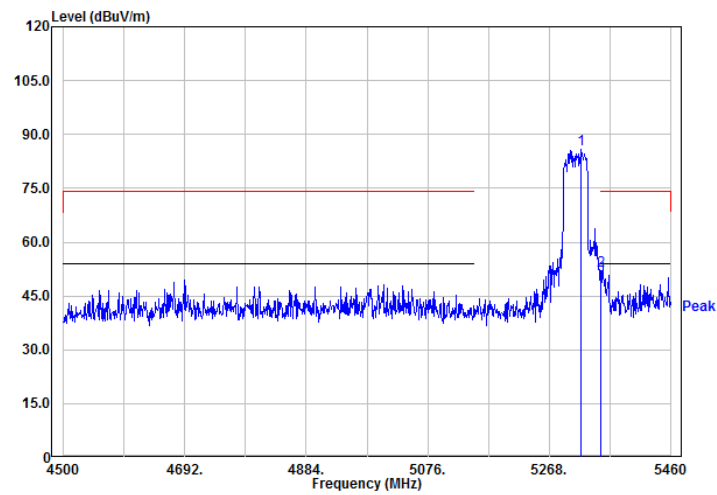
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE40) Mode Ch38 PK



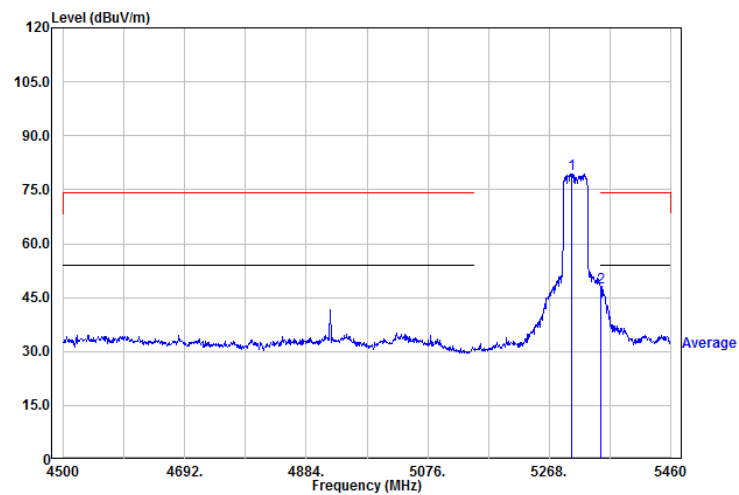
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE40) Mode Ch38 AV



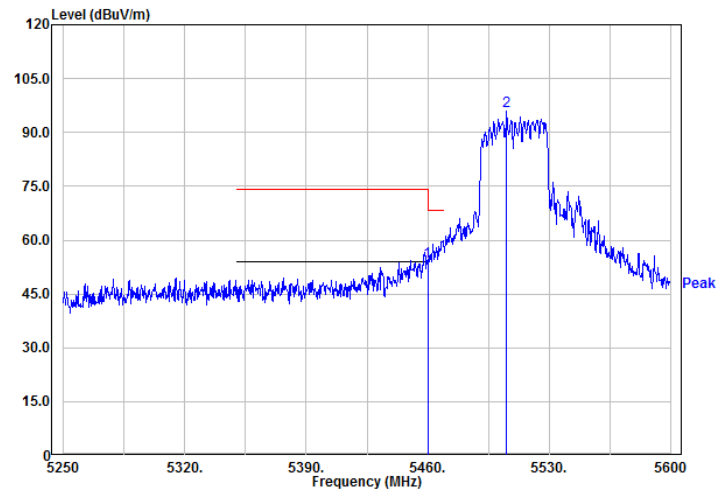
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE40) Mode Ch62 PK



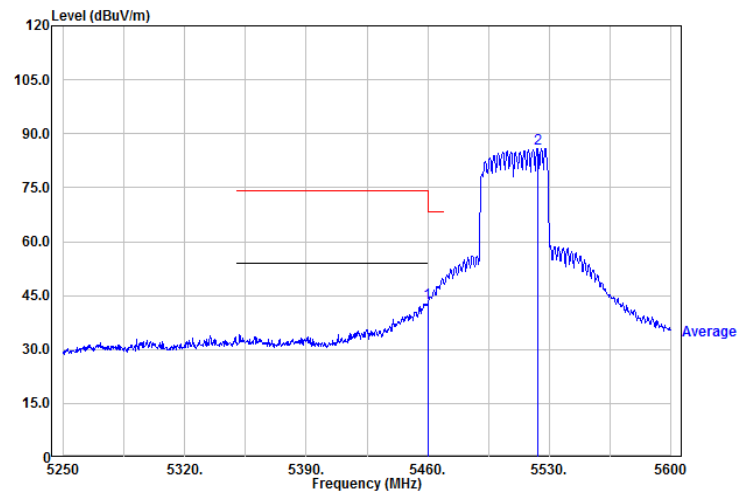
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE40) Mode Ch62 AV



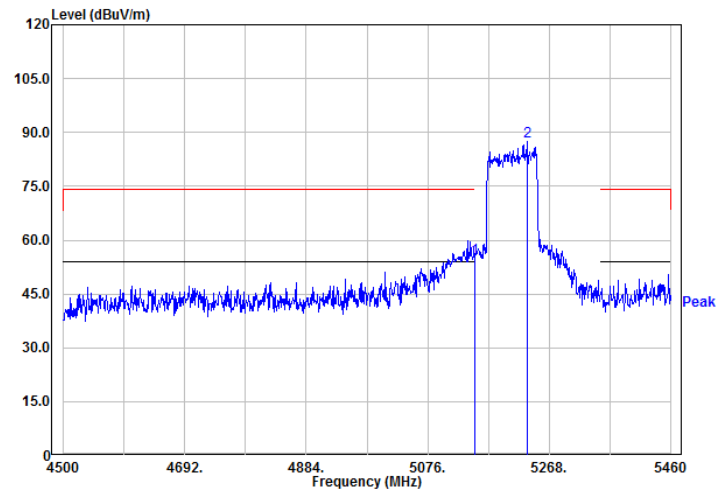
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE40) Mode Ch102 PK



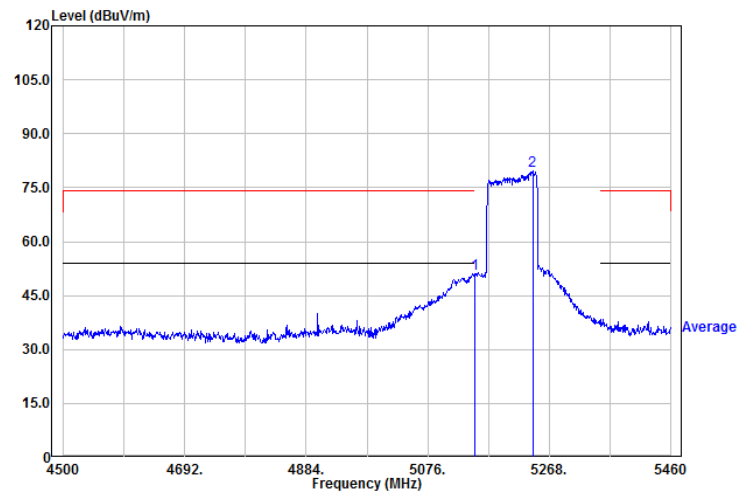
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE40) Mode Ch102 AV



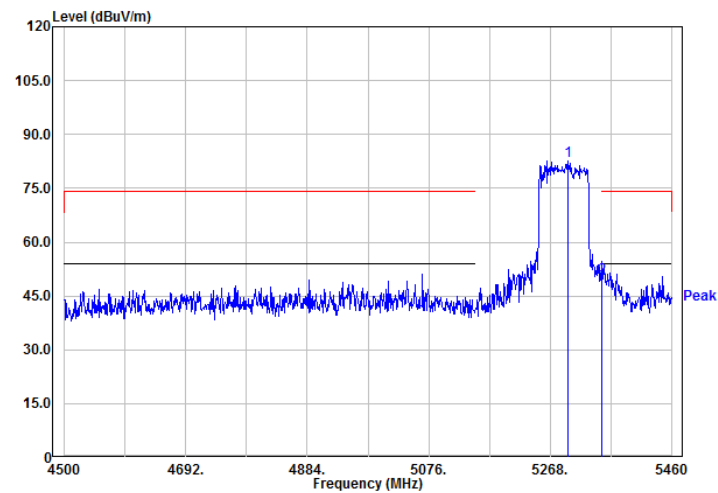
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE80) Mode Ch42 PK



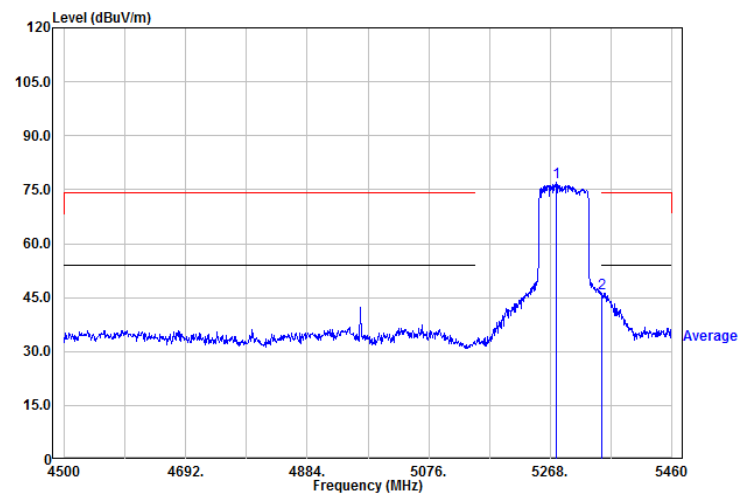
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE80) Mode Ch42 AV



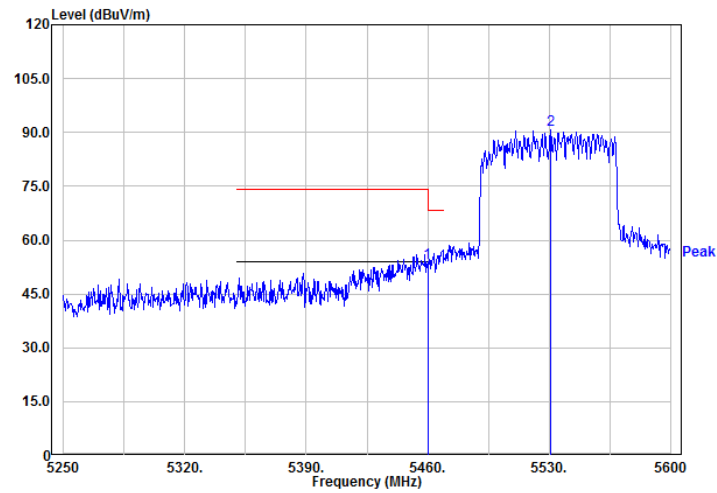
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE80) Mode Ch58 PK



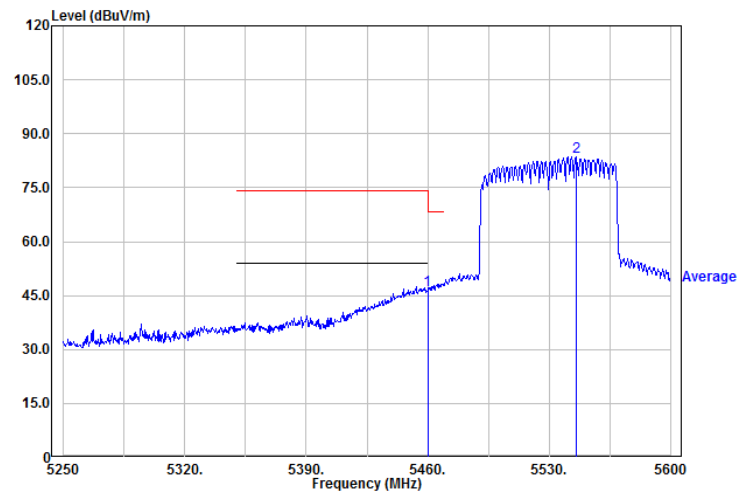
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE80) Mode Ch58 AV



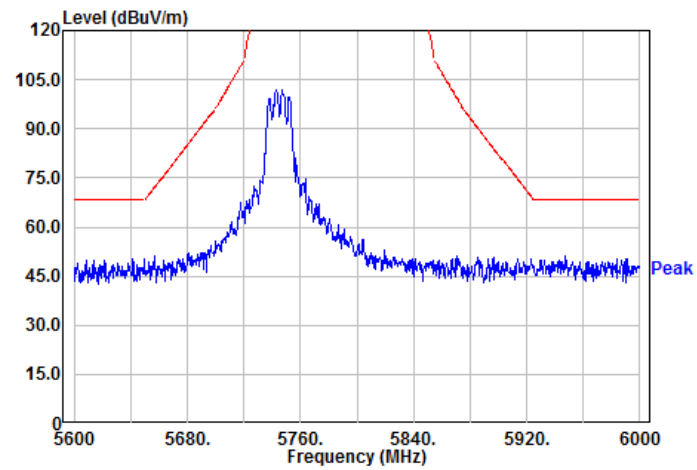
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE80) Mode Ch106 PK



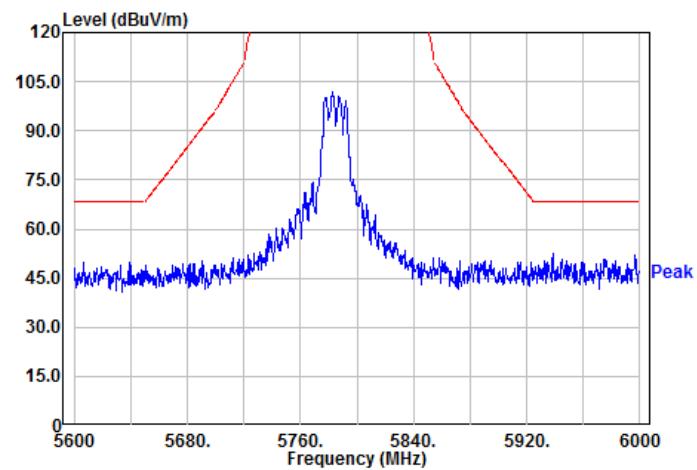
Chain0+1 : Restricted Band Bandedge @ 802.11ax(HE80) Mode Ch106 AV



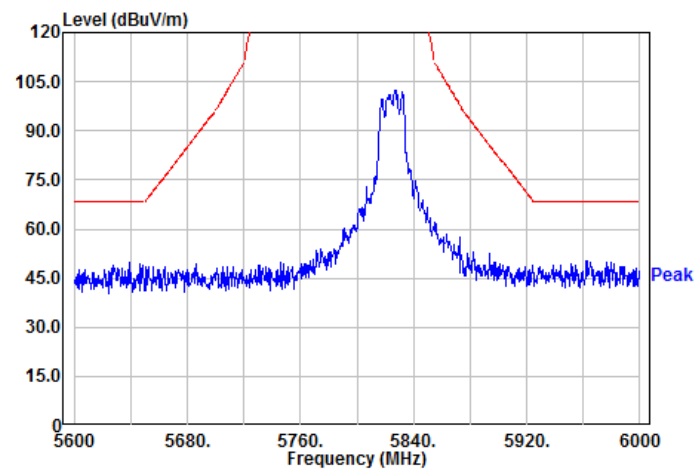
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11a Ch149



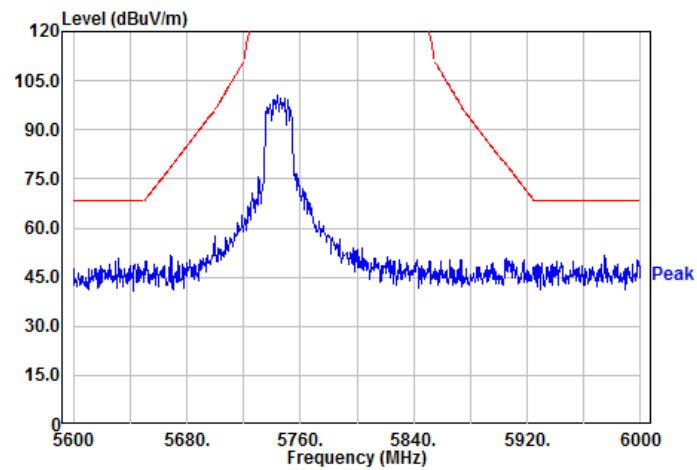
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11a Ch157



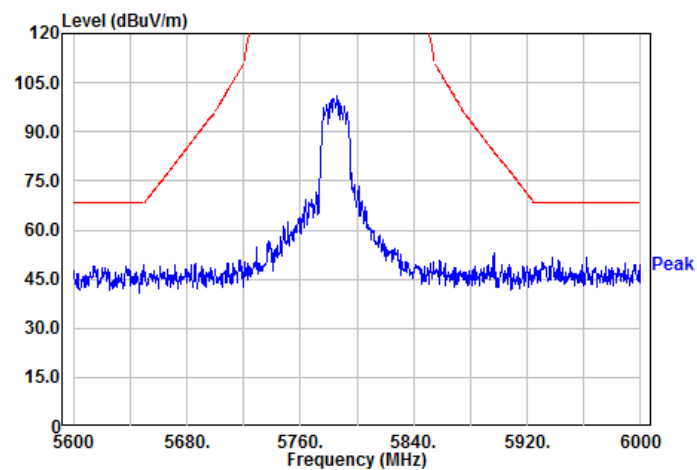
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11a Ch165



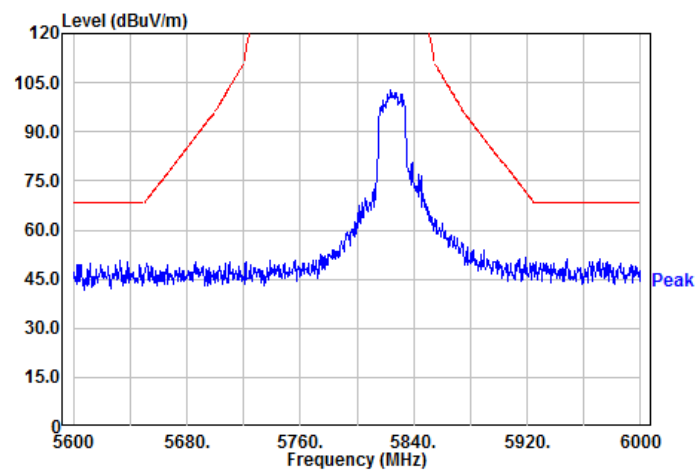
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ac(VHT20) Ch149



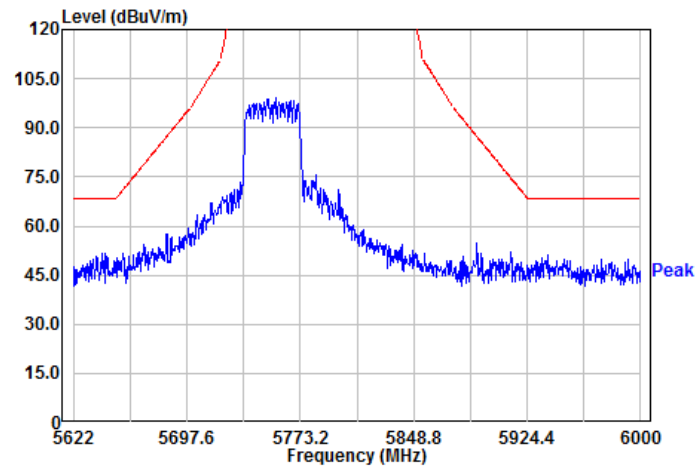
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ac(VHT20) Ch157



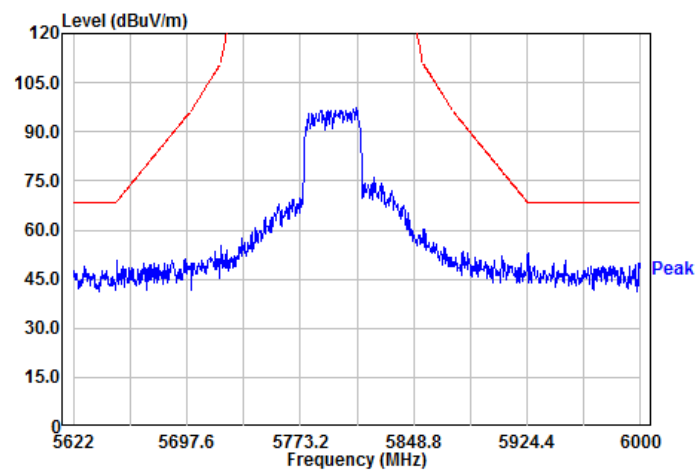
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ac(VHT20) Ch165



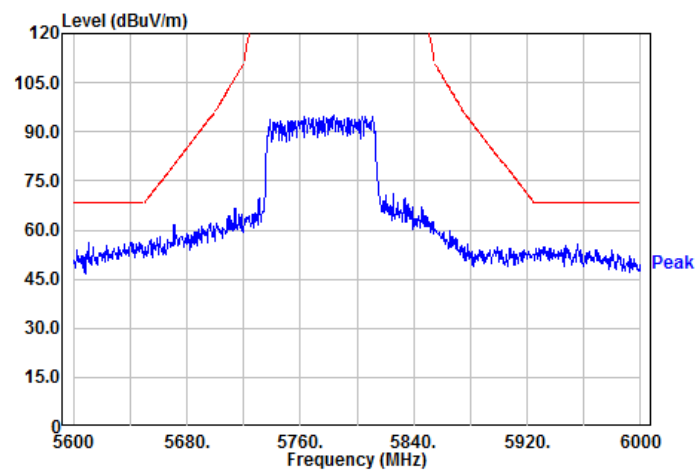
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ac(VHT40) Ch151



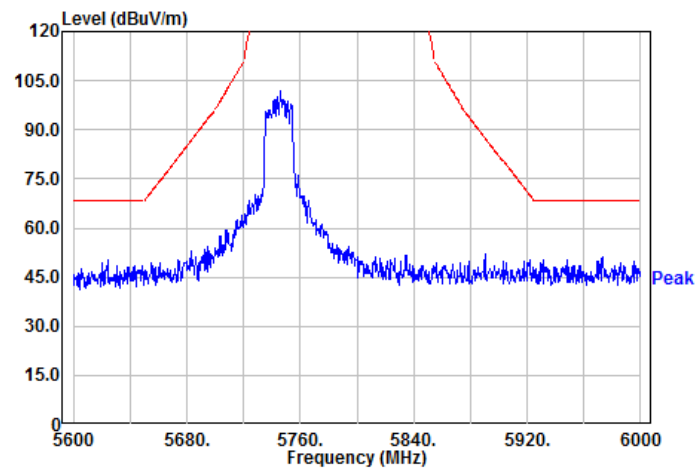
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ac(VHT40) Ch159



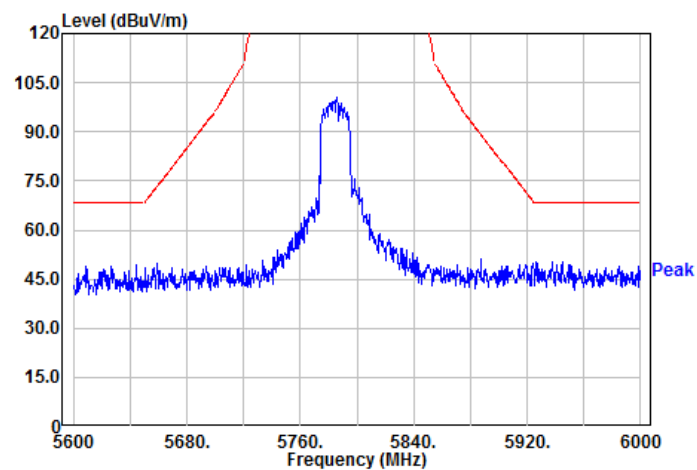
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ac(VHT80) Ch155



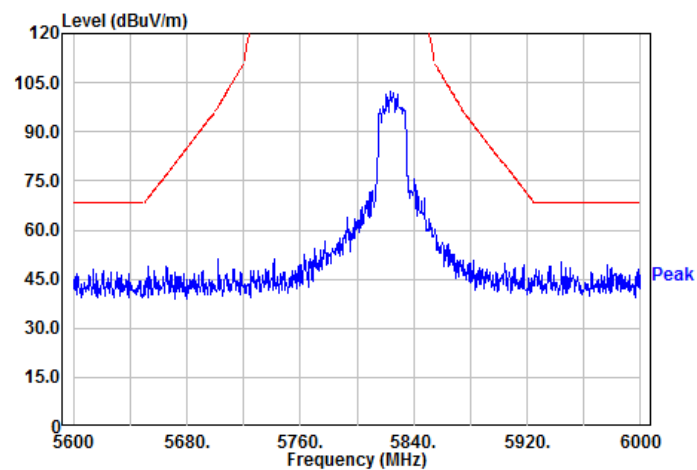
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ax(HE20) Ch149



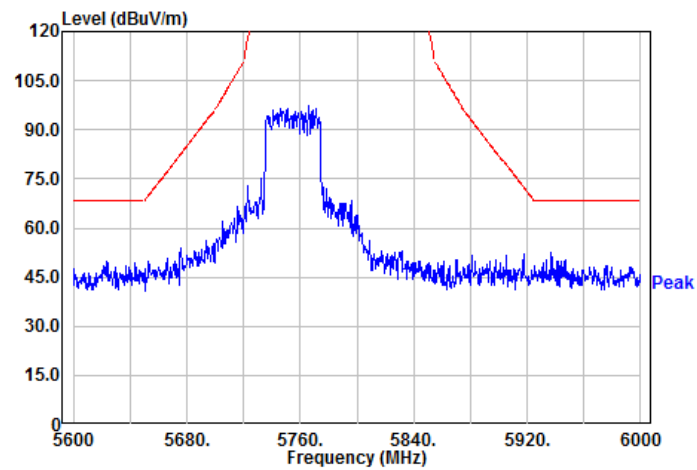
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802. 11ax(HE20) Ch157



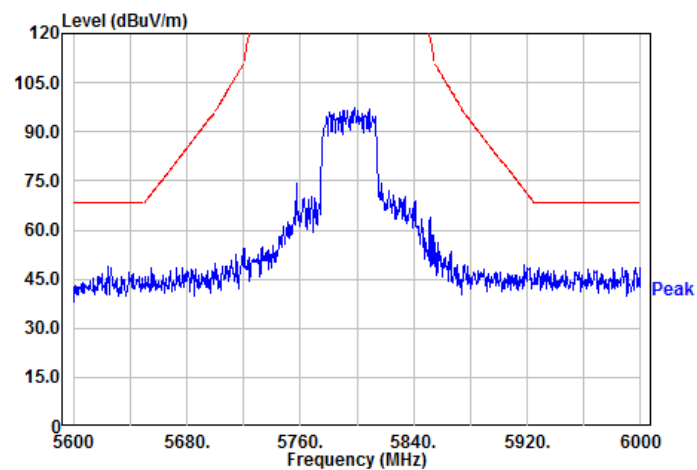
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ax(HE20) Ch165



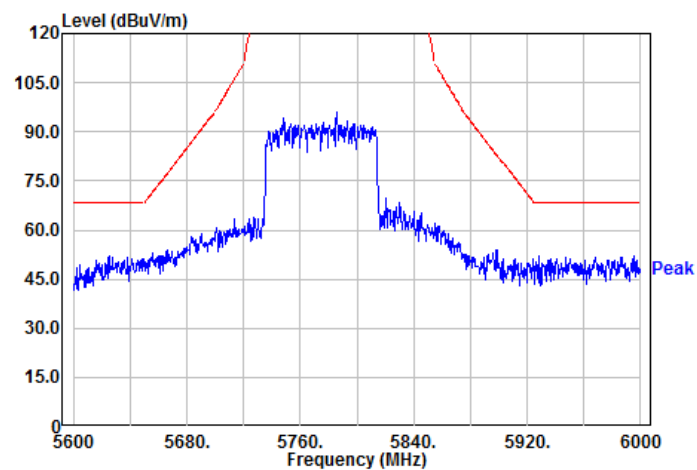
Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ax(HE40) Ch151



Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ax(HE40) Ch159



Chain0+1 : Out-of-band emission limits for U-NII-3 @ mode 802.11ax(HE80) Ch155



7. AC Power Line Conducted Emission

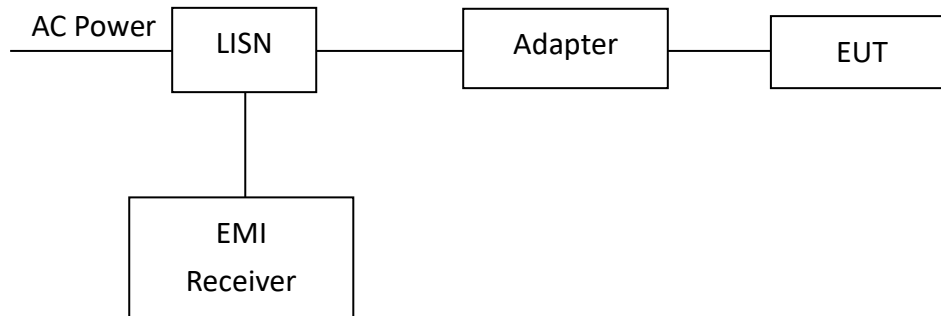
7.1 Measuring instrument setting

Receiver Function	Setting
Detector	QP
Start frequency	0.15MHz
Stop frequency	30MHz
IF bandwidth	9 kHz
Attenuation	10dB

7.2 Test Procedure

Step 1	Configure the EUT according to ANSI C63.10:2020. The EUT or host of EHT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
Step 2	Connect EUT or host of EUT to the power mains through a line impedance stabilization network.
Step 3	All the companion devices are connected to the other LISN. The LISN should provide 50Uh/50ohms coupling impedance.
Step 4	The frequency range from 150 kHz to 30MHz was searched.
Step 5	Set the test-receiver system to peak detector and specified bandwidth with maximum hold mode.
Step 6	The measurement has to be done between each power line and ground at the power terminal.

7.3 Test Diagram

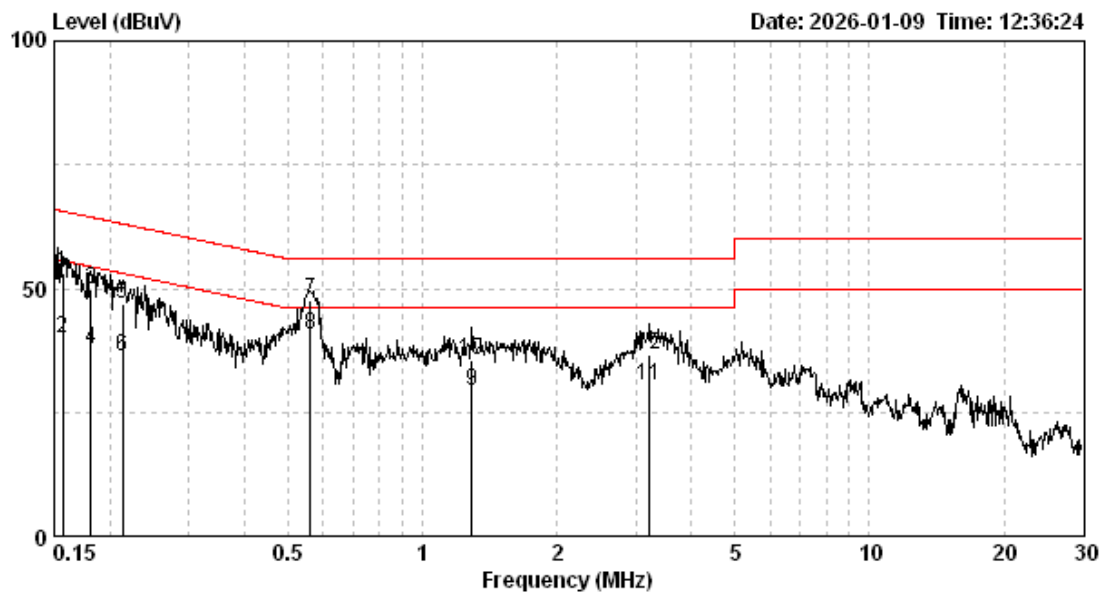


7.4 Limit

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15~0.50	66 – 56	56 – 46
0.50~5.00	56	46
5.00~30.0	60	50

7.5 Test Results

Test model:	68301
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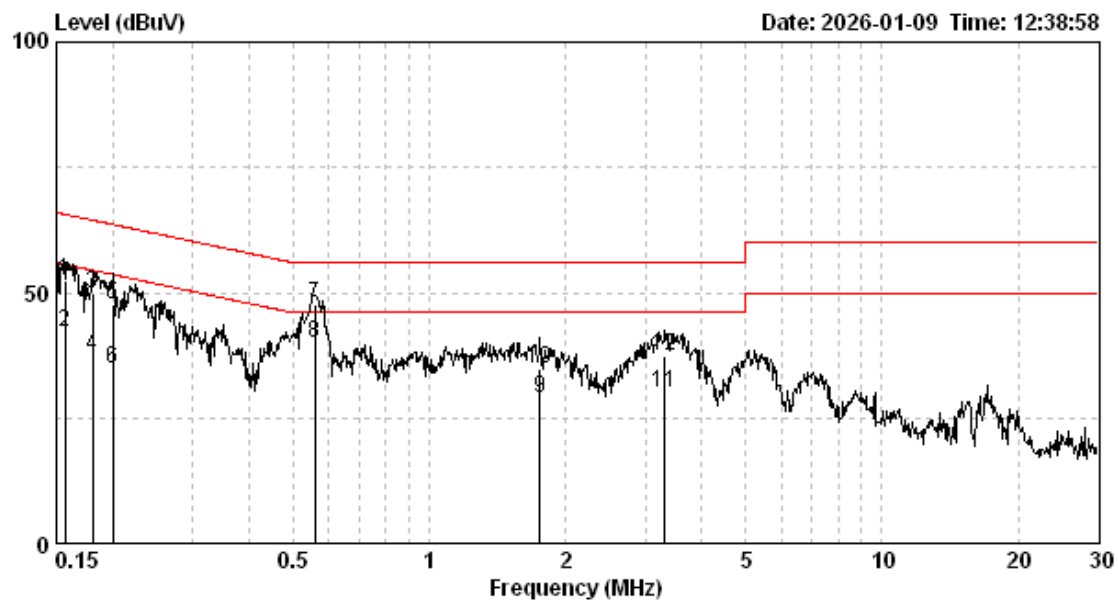


Test voltage : AC 120V / 60Hz
 Temp. / R.H. : 22 °C / 72 %
 Atmospheric pressure : 1010 hPa

Phase	Frequency (MHz)	Corr. Factor (dB)	Reading QP (dBuV)	Level QP (dBuV)	Limit QP (dBuV)	Reading AV (dBuV)	Level AV (dBuV)	Limit AV (dBuV)	Margin (dB)	
									QP	AV
LINE	0.156	9.80	43.37	53.17	65.65	30.18	39.98	55.65	-12.48	-15.66
LINE	0.182	9.84	40.09	49.92	64.42	27.87	37.70	54.42	-14.49	-16.71
LINE	0.214	9.86	37.02	46.88	63.05	26.38	36.24	53.05	-16.17	-16.81
LINE	0.561	9.92	37.63	47.55	56.00	30.76	40.68	46.00	-8.45	-5.32
LINE	1.289	10.02	25.61	35.63	56.00	19.31	29.32	46.00	-20.37	-16.68
LINE	3.224	10.00	26.74	36.73	56.00	20.59	30.58	46.00	-19.27	-15.42

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)



Test voltage : AC 120V / 60Hz
 Temp. / R.H. : 22 °C / 72 %
 Atmospheric pressure : 1010 hPa

Phase	Frequency (MHz)	Corr. Factor (dB)	Reading QP (dBuV)	Level QP (dBuV)	Limit QP (dBuV)	Reading AV (dBuV)	Level AV (dBuV)	Limit AV (dBuV)	Margin (dB)	
									QP	AV
NEUTRAL	0.156	9.78	42.66	52.44	65.65	32.20	41.98	55.65	-13.21	-13.66
NEUTRAL	0.181	9.82	40.04	49.86	64.46	27.66	37.48	54.46	-14.60	-16.98
NEUTRAL	0.200	9.85	37.92	47.77	63.62	24.96	34.81	53.62	-15.85	-18.82
NEUTRAL	0.558	9.92	37.88	47.80	56.00	29.95	39.87	46.00	-8.21	-6.13
NEUTRAL	1.753	10.03	24.78	34.81	56.00	19.08	29.11	46.00	-21.19	-16.89
NEUTRAL	3.310	10.00	27.20	37.20	56.00	19.94	29.95	46.00	-18.80	-16.05

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. Factor (dB) + Reading (dBuV)
3. Margin (dB) = Level (dBuV) – Limit (dBuV)

Appendix A: Test equipment list

Test Equipment/ Test site	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
Pre-Amplifier	SGH	SGH118	20220105-1	2025/12/15	2026/12/14
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-172	2025/12/15	2026/12/14
966-2_3m Semi-Anechoic Chamber	CHANCE MOST	CEM-966_2	N/A	2025/07/29	2026/07/28
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170159	2025/08/04	2026/08/03
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-456	2025/12/02	2026/12/01
Power Meter	Anritsu	ML2495A	0844001	2025/11/28	2026/11/27
Power Sensor	Anritsu	MA2491A	031543	2025/11/28	2026/11/27
Cable	SUHNER	SUCOFLEX 104	295105/4	2025/02/27	2026/02/26
Cable	SUHNER	SUCOFLEX 104P	CB0005	2025/02/27	2026/02/26
Hight Pass Filter	Wainwright	WHKX3.0/18G-12SS	N/A	2025/05/22	2026/05/21
Active Loop Antenna	SCHWARZBECK	FMZB1519	1519-067	2025/11/17	2026/11/16
20dB Attenuator	PE	PE7001-20	N/A	2025/05/22	2026/05/21
Pre-amplifier	SGH	SGH184	20201124-1	2025/11/25	2026/11/24
Cable	SUHNER	SUCOFLEX 104P	9403 / 4P	2025/11/21	2026/11/20
Spectrum analyzer	KEYSIGHT	N9020B	MY63450146	2026/01/30	2027/01/29
EMI Test Receiver	KEYSIGHT	N9038B	MY63060107	2026/01/14	2027/01/13
Signal Generator	KEYSIGHT	N5182B	MY56200111	2025/05/26	2026/05/25
Test software	Audix	e3	V9	NCR	NCR
EMI Test Receiver	R&S	ESCI	100059	2025/09/03	2026/09/02
Cable	SUHNER	EMCCFD300-BM-NM -6000	170502	2025/06/24	2026/06/23
LISN	R&S	ENV216	101160	2025/06/19	2026/06/18
Test software	Audix	e3	V4.20040112L	NCR	NCR
Test site	Intertek	Con-2	N/A	NCR	NCR

Note: No Calibration Required (NCR).

Appendix B: Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2.0$.

Item	Uncertainty
Radiated disturbances from 9kHz~30MHz in a semi-anechoic chamber at a distance of 3m	2.73 dB
Vertically polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	3.91 dB
Horizontally polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	3.49 dB
Vertically polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	3.71 dB
Horizontally polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	3.71 dB
Vertically polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	3.26 dB
Horizontally polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	3.26 dB
Conducted Measurement	0.69 dB
AC Power Line Conducted Emission	1.31 dB