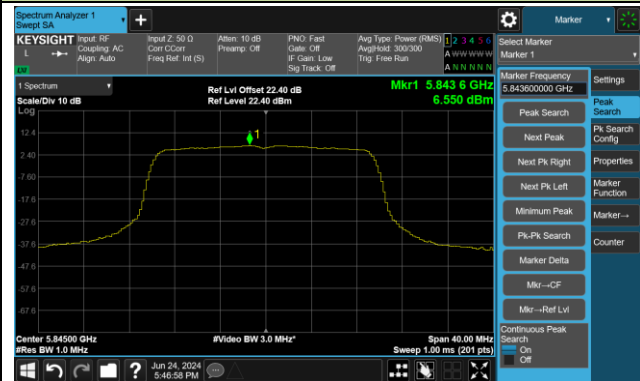
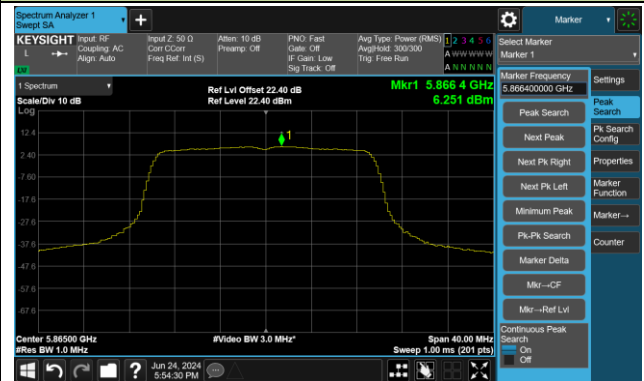


802.11ax-HE20 Power Spectral Density - Ant 1

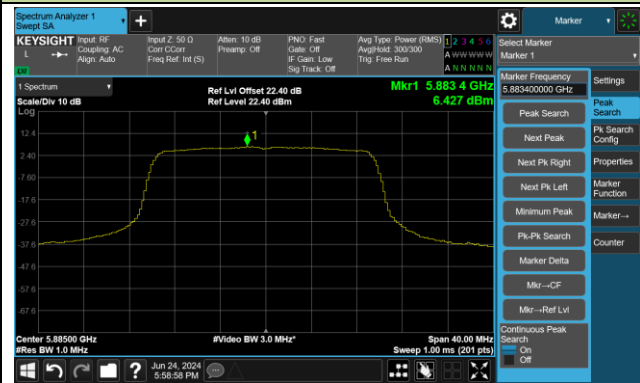
Channel 169 (5845MHz)



Channel 173 (5865MHz)

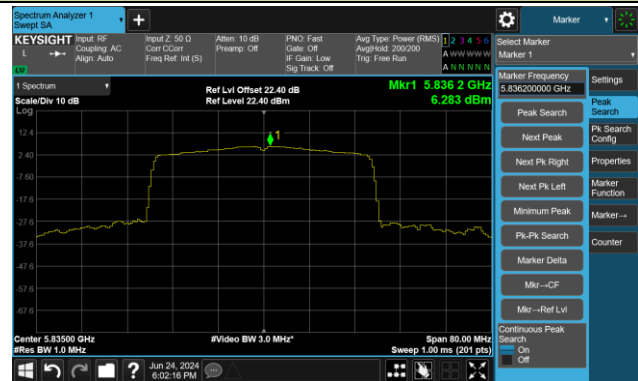


Channel 177 (5885MHz)

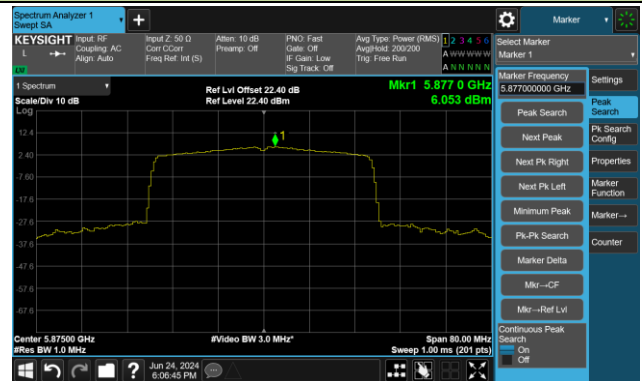


802.11ax-HE40 Power Spectral Density - Ant 1

Channel 167 (5835MHz)

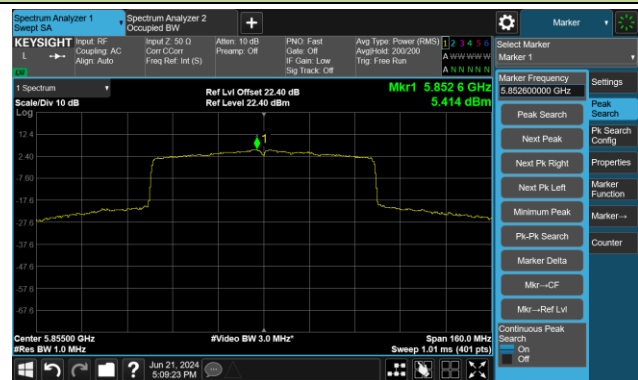


Channel 175 (5875MHz)



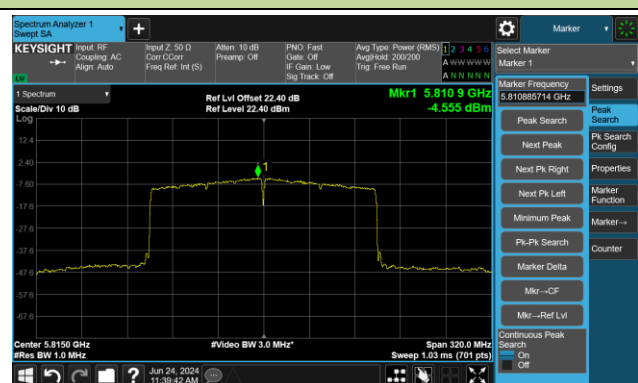
802.11ax-HE80 Power Spectral Density - Ant 1

Channel 171 (5855MHz)



802.11ax-HE160 Power Spectral Density - Ant 1

Channel 163 (5815MHz)

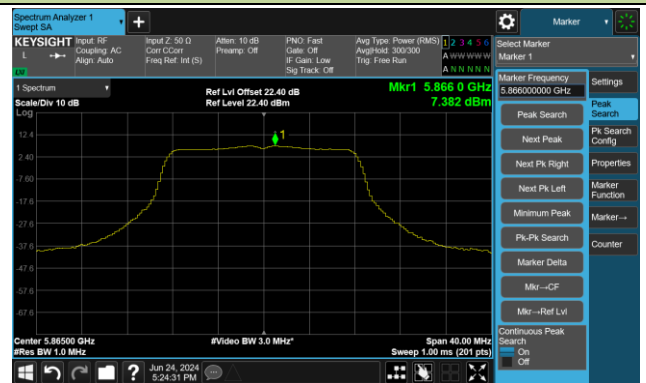


802.11a Power Spectral Density - Ant 2

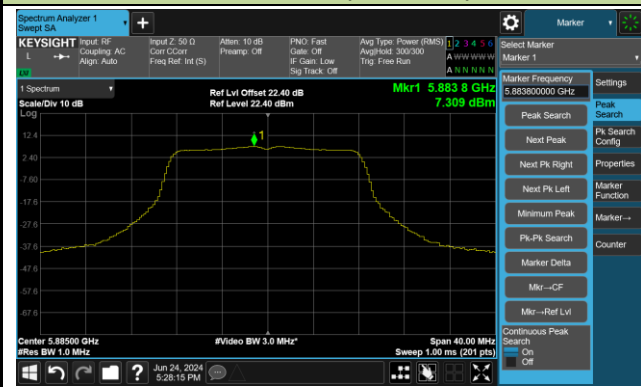
Channel 169 (5845MHz)



Channel 173 (5865MHz)

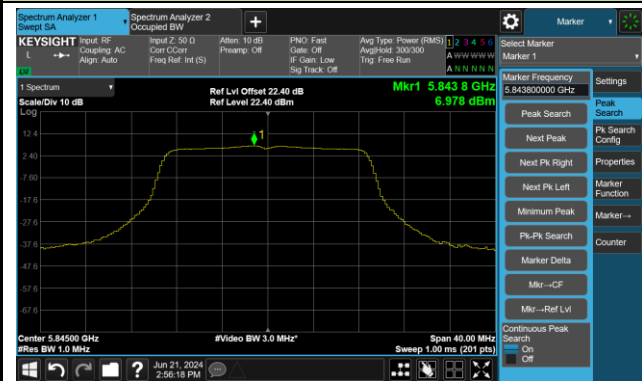


Channel 177 (5885MHz)

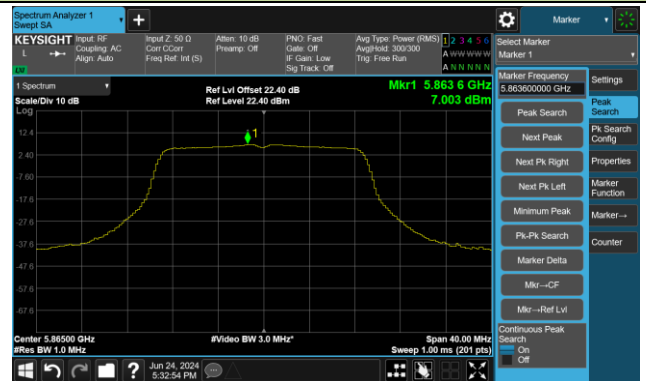


802.11ac-VHT20 Power Spectral Density - Ant 2

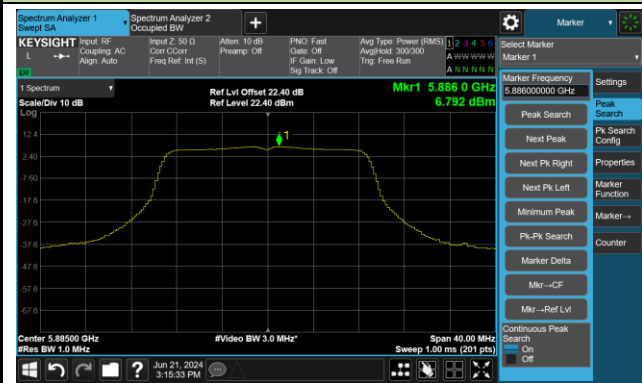
Channel 169 (5845MHz)



Channel 173 (5865MHz)

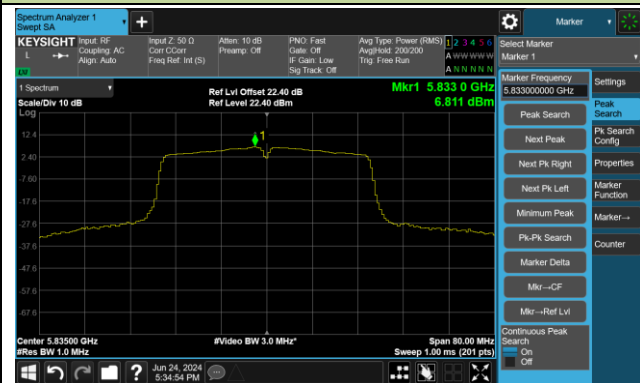


Channel 177 (5885MHz)

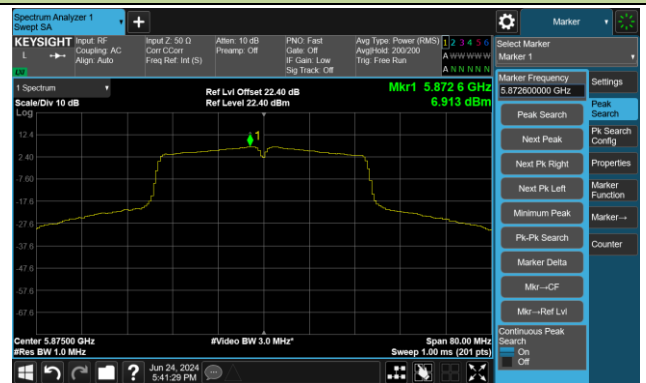


802.11ac-VHT40 Power Spectral Density - Ant 2

Channel 167 (5835MHz)

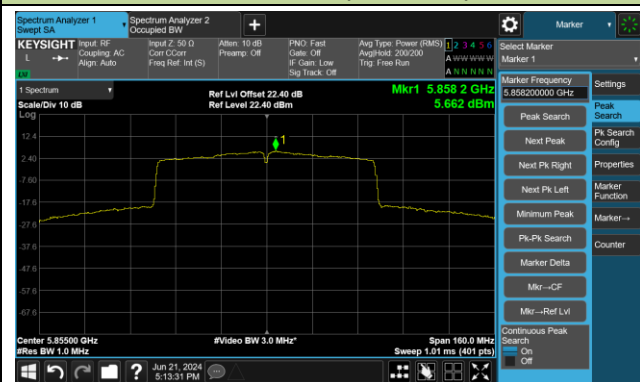


Channel 175 (5875MHz)



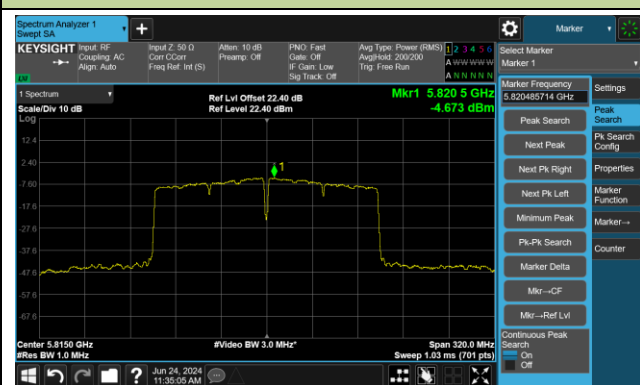
802.11ac-VHT80 Power Spectral Density – Ant 2

Channel 171 (5855MHz)



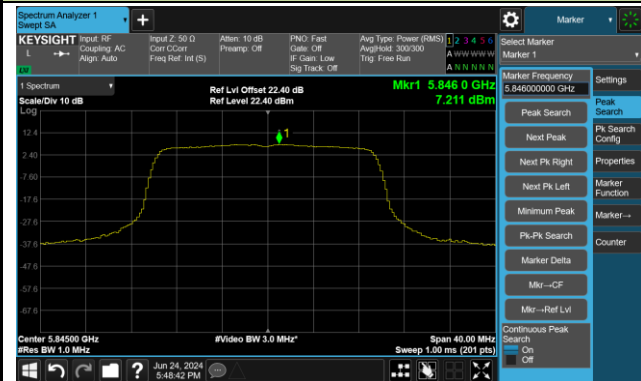
802.11ac-VHT160 Power Spectral Density - Ant 2

Channel 163 (5815MHz)

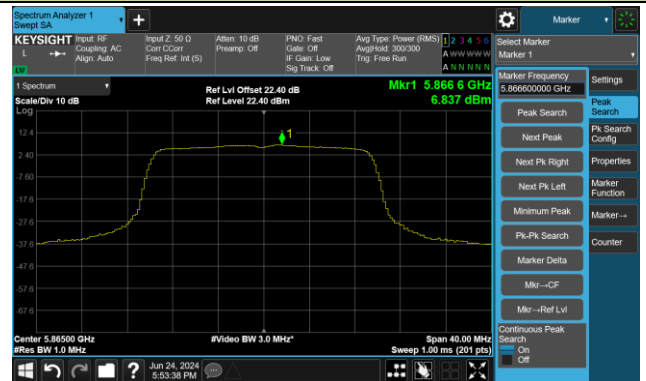


802.11ax-HE20 Power Spectral Density - Ant 2

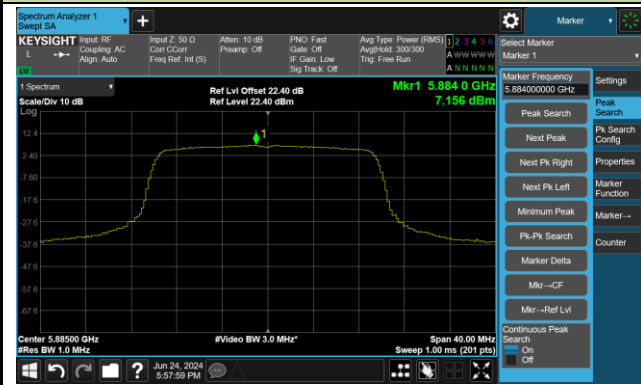
Channel 169 (5845MHz)



Channel 173 (5865MHz)



Channel 177 (5885MHz)

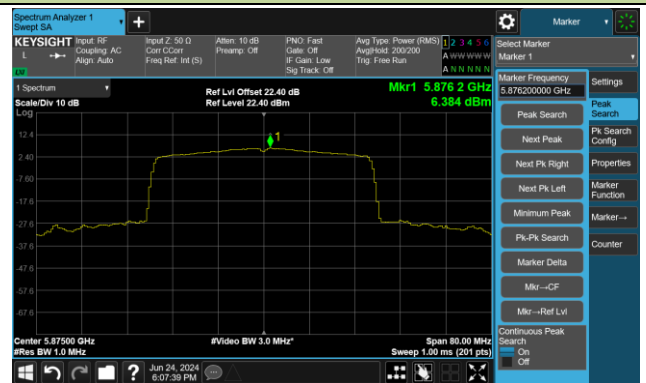


802.11ax-HE40 Power Spectral Density - Ant 2

Channel 167 (5835MHz)

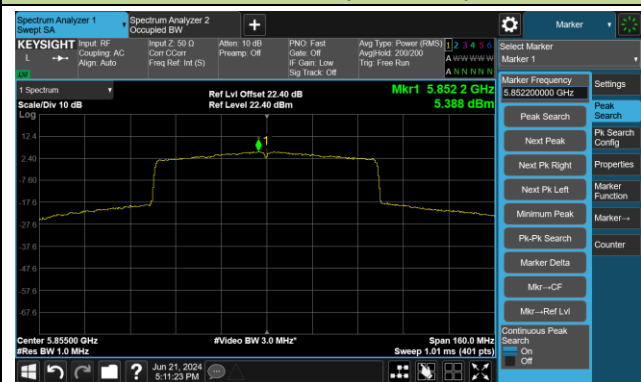


Channel 175 (5875MHz)



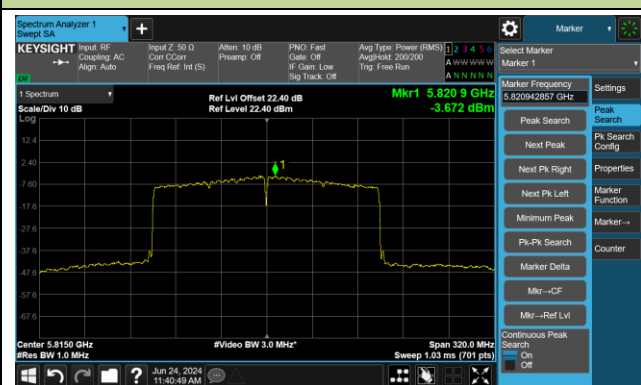
802.11ax-HE80 Power Spectral Density - Ant 2

Channel 171 (5855MHz)



802.11ax-HE160 Power Spectral Density - Ant 2

Channel 163 (5815MHz)



A.6 Frequency Stability Test Result

Test Site	SIP-TR1	Test Engineer	Ryan Wang
Test Date	2024-06-23		
Test Mode	5845MHz (Carrier Mode)		

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)			
			0 minutes	2 minutes	5 minutes	10 minutes
100	120	- 30	10.10	10.18	10.16	10.14
		- 20	9.18	9.03	8.93	8.89
		- 10	6.46	5.97	5.84	5.79
		0	2.82	2.48	2.65	2.63
		+ 10	-0.87	-1.58	-2.13	-2.42
		+ 20 (Ref)	-13.19	-14.11	-14.83	-15.54
		+ 30	-10.23	-10.85	-11.24	-11.41
		+ 40	-13.97	-14.18	-14.42	-14.56
		+ 50	-15.61	-15.85	-15.97	-16.04
115	138	+ 20	-14.44	-15.33	-15.71	-15.92
85	102	+ 20	-14.82	-15.27	-15.56	-15.87

Note: Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} *10⁶.

A.7 Radiated Spurious Emission Test Result

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11a – Channel 169
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	9372.5	37.5	10.1	47.6	74.0	-26.4	Peak	Horizontal
	11752.5	42.8	12.4	55.2	74.0	-18.8	Peak	Horizontal
	11752.5	35.3	12.4	47.7	54.0	-6.3	Average	Horizontal
*	13775.5	35.9	15.8	51.7	108.2	-56.5	Peak	Horizontal
*	17005.5	37.8	21.2	59.0	108.2	-49.2	Peak	Horizontal
*	8769.0	38.8	9.7	48.5	108.2	-59.7	Peak	Vertical
	10698.5	35.8	12.3	48.1	74.0	-25.9	Peak	Vertical
	12279.5	35.9	14.2	50.1	74.0	-23.9	Peak	Vertical
*	14880.5	37.2	18.4	55.6	108.2	-52.6	Peak	Vertical

Note 1: “*” is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11a – Channel 173
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
*	10494.5	36.5	12.0	48.5	108.2	-59.7	Peak	Horizontal
	11735.5	41.8	12.2	54.0	74.0	-20.0	Peak	Horizontal
	11735.5	35.2	12.2	47.4	54.0	-6.6	Average	Horizontal
	13325.0	34.2	14.0	48.2	74.0	-25.8	Peak	Horizontal
*	14090.0	34.5	17.6	52.1	108.2	-56.1	Peak	Horizontal
	8403.5	37.3	8.1	45.4	74.0	-28.6	Peak	Vertical
*	9551.0	36.8	10.6	47.4	108.2	-60.8	Peak	Vertical
	11200.0	35.1	13.3	48.4	74.0	-25.6	Peak	Vertical
*	16538.0	36.8	20.6	57.4	108.2	-50.8	Peak	Vertical
Note 1: "*" is not in restricted band. Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11a – Channel 177
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9024.0	36.2	9.0	45.2	74.0	-28.8	Peak	Horizontal
	11769.5	40.9	12.7	53.6	74.0	-20.4	Peak	Horizontal
	11769.5	34.2	12.7	46.9	54.0	-7.1	Average	Horizontal
*	15186.5	36.9	18.7	55.6	108.2	-52.6	Peak	Horizontal
*	16538.0	36.9	20.6	57.5	108.2	-50.7	Peak	Horizontal
	9423.5	36.6	9.7	46.3	74.0	-27.7	Peak	Vertical
	12390.0	35.9	14.6	50.5	74.0	-23.5	Peak	Vertical
*	14821.0	36.2	18.2	54.4	108.2	-53.8	Peak	Vertical
*	17005.5	37.1	21.2	58.3	108.2	-49.9	Peak	Vertical
Note 1: “*” is not in restricted band.								
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ac-VHT20 – Channel 169
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9372.5	36.2	10.1	46.3	74.0	-27.7	Peak	Horizontal
	11684.5	41.4	12.4	53.8	74.0	-20.2	Peak	Horizontal
	11684.5	36.2	12.4	48.6	54.0	-5.4	Average	Horizontal
*	15229.0	35.6	19.3	54.9	108.2	-53.3	Peak	Horizontal
*	17005.5	36.8	21.2	58.0	108.2	-50.2	Peak	Horizontal
	9440.5	36.4	10.1	46.5	74.0	-27.5	Peak	Vertical
	12356.0	35.0	14.7	49.7	74.0	-24.3	Peak	Vertical
*	14753.0	36.0	18.2	54.2	108.2	-54.0	Peak	Vertical
*	16980.0	37.4	20.4	57.8	108.2	-50.4	Peak	Vertical

Note 1: "*" is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ac-VHT20 – Channel 173
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9372.5	37.4	10.1	47.5	74.0	-26.5	Peak	Horizontal
	11727.0	43.7	12.3	56.0	74.0	-18.0	Peak	Horizontal
	11727.0	36.5	12.3	48.8	54.0	-5.2	Average	Horizontal
*	15144.0	36.2	19.2	55.4	108.2	-52.8	Peak	Horizontal
*	16997.0	36.1	21.2	57.3	108.2	-50.9	Peak	Horizontal
	9364.0	36.3	10.2	46.5	74.0	-27.5	Peak	Vertical
	12322.0	36.1	14.3	50.4	74.0	-23.6	Peak	Vertical
*	14200.5	35.2	17.9	53.1	108.2	-55.1	Peak	Vertical
*	16555.0	37.0	20.2	57.2	108.2	-51.0	Peak	Vertical
Note 1: "*" is not in restricted band.								
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ac-VHT20 – Channel 177
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	8225.0	38.5	8.6	47.1	74.0	-26.9	Peak	Horizontal
	11769.5	42.8	12.7	55.5	74.0	-18.5	Peak	Horizontal
	11769.5	35.6	12.7	48.3	54.0	-5.7	Average	Horizontal
*	14787.0	35.6	18.4	54.0	108.2	-54.2	Peak	Horizontal
*	17073.5	38.0	20.2	58.2	108.2	-50.0	Peak	Horizontal
	9092.0	37.3	9.4	46.7	74.0	-27.3	Peak	Vertical
	11497.5	34.8	13.0	47.8	74.0	-26.2	Peak	Vertical
*	14812.5	36.4	18.2	54.6	108.2	-53.6	Peak	Vertical
*	17014.0	37.2	21.1	58.3	108.2	-49.9	Peak	Vertical
Note 1: "*" is not in restricted band.								
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ac-VHT40 – Channel 167
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9372.5	36.8	10.1	46.9	74.0	-27.1	Peak	Horizontal
	11676.0	42.7	12.5	55.2	74.0	-18.8	Peak	Horizontal
	11676.0	36.1	12.5	48.6	54.0	-5.4	Average	Horizontal
*	14217.5	35.3	17.9	53.2	108.2	-55.0	Peak	Horizontal
*	17022.5	36.0	20.9	56.9	108.2	-51.3	Peak	Horizontal
	12296.5	35.3	14.4	49.7	74.0	-24.3	Peak	Vertical
*	14192.0	34.7	17.8	52.5	108.2	-55.7	Peak	Vertical
	15475.5	39.7	19.7	59.4	74.0	-14.6	Peak	Vertical
	15475.5	24.7	19.7	44.4	54.0	-9.6	Average	Vertical
*	17014.0	37.4	21.1	58.5	108.2	-49.7	Peak	Vertical

Note 1: “*” is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ac-VHT40 – Channel 175
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9372.5	36.6	10.1	46.7	74.0	-27.3	Peak	Horizontal
	11735.5	41.3	12.2	53.5	74.0	-20.5	Peak	Horizontal
	11735.5	35.7	12.2	47.9	54.0	-6.1	Average	Horizontal
*	14226.0	35.7	17.9	53.6	108.2	-54.6	Peak	Horizontal
*	17090.5	36.3	20.7	57.0	108.2	-51.2	Peak	Horizontal
	9449.0	36.4	10.3	46.7	74.0	-27.3	Peak	Vertical
	12262.5	35.6	14.1	49.7	74.0	-24.3	Peak	Vertical
*	14311.0	36.9	17.1	54.0	108.2	-54.2	Peak	Vertical
*	17014.0	36.6	21.1	57.7	108.2	-50.5	Peak	Vertical
Note 1: “*” is not in restricted band.								
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ac-VHT80 – Channel 171
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9372.5	37.1	10.1	47.2	74.0	-26.8	Peak	Horizontal
	11710.0	41.7	12.5	54.2	74.0	-19.8	Peak	Horizontal
	11710.0	35.0	12.5	47.5	54.0	-6.5	Average	Horizontal
*	14897.5	36.0	18.5	54.5	108.2	-53.7	Peak	Horizontal
*	17031.0	37.3	20.7	58.0	108.2	-50.2	Peak	Horizontal
	9338.5	35.6	9.9	45.5	74.0	-28.5	Peak	Vertical
	12415.5	34.6	14.6	49.2	74.0	-24.8	Peak	Vertical
*	14413.0	37.0	17.6	54.6	108.2	-53.6	Peak	Vertical
*	16997.0	37.2	21.2	58.4	108.2	-49.8	Peak	Vertical
Note 1: "*" is not in restricted band.								
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ac-VHT160 – Channel 163
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9381.0	35.4	10.0	45.4	74.0	-28.6	Peak	Horizontal
	12424.0	35.3	14.4	49.7	74.0	-24.3	Peak	Horizontal
*	14226.0	35.5	17.9	53.4	108.2	-54.8	Peak	Horizontal
*	17005.5	35.5	21.2	56.7	108.2	-51.5	Peak	Horizontal
	9372.5	36.5	10.1	46.6	74.0	-27.4	Peak	Vertical
	12330.5	35.2	14.4	49.6	74.0	-24.4	Peak	Vertical
*	14217.5	36.7	17.9	54.6	108.2	-53.6	Peak	Vertical
*	17031.0	36.3	20.7	57.0	108.2	-51.2	Peak	Vertical

Note 1: “*” is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ax-HE20 – Channel 169
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9466.0	36.1	10.5	46.6	74.0	-27.4	Peak	Horizontal
	11752.5	42.3	12.4	54.7	74.0	-19.3	Peak	Horizontal
	11752.5	37.6	12.4	50.0	54.0	-4.0	Average	Horizontal
*	14107.0	35.9	17.7	53.6	108.2	-54.6	Peak	Horizontal
*	17090.5	38.0	20.7	58.7	108.2	-49.5	Peak	Horizontal
	9364.0	36.5	10.2	46.7	74.0	-27.3	Peak	Vertical
	12407.0	35.9	14.7	50.6	74.0	-23.4	Peak	Vertical
*	14812.5	36.4	18.2	54.6	108.2	-53.6	Peak	Vertical
*	16886.5	36.7	20.6	57.3	108.2	-50.9	Peak	Vertical

Note 1: “*” is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ax-HE20 – Channel 173
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9134.5	36.8	9.5	46.3	74.0	-27.7	Peak	Horizontal
	11727.0	45.0	12.3	57.3	74.0	-16.7	Peak	Horizontal
	11727.0	37.5	12.3	49.8	54.0	-4.2	Average	Horizontal
*	14209.0	34.3	17.9	52.2	108.2	-56.0	Peak	Horizontal
*	16997.0	36.2	21.2	57.4	108.2	-50.8	Peak	Horizontal
	9440.5	36.4	10.1	46.5	74.0	-27.5	Peak	Vertical
	12296.5	35.9	14.4	50.3	74.0	-23.7	Peak	Vertical
*	14115.5	35.8	17.3	53.1	108.2	-55.1	Peak	Vertical
*	16997.0	36.0	21.2	57.2	108.2	-51.0	Peak	Vertical

Note 1: “*” is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ax-HE20 – Channel 177
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9432.0	37.5	9.9	47.4	74.0	-26.6	Peak	Horizontal
	11769.5	42.5	12.7	55.2	74.0	-18.8	Peak	Horizontal
	11769.5	37.1	12.7	49.8	54.0	-4.2	Average	Horizontal
*	13954.0	36.4	16.8	53.2	108.2	-55.0	Peak	Horizontal
*	17090.5	36.8	20.7	57.5	108.2	-50.7	Peak	Horizontal
	9423.5	36.3	9.7	46.0	74.0	-28.0	Peak	Vertical
	11710.0	36.4	12.5	48.9	74.0	-25.1	Peak	Vertical
*	13894.5	36.7	16.3	53.0	108.2	-55.2	Peak	Vertical
*	17090.5	37.2	20.7	57.9	108.2	-50.3	Peak	Vertical
Note 1: “*” is not in restricted band.								
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ax-HE40 – Channel 167
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9372.5	37.0	10.1	47.1	74.0	-26.9	Peak	Horizontal
	11667.5	43.7	12.5	56.2	74.0	-17.8	Peak	Horizontal
	11667.5	36.7	12.5	49.2	54.0	-4.8	Average	Horizontal
*	14166.5	35.6	17.3	52.9	108.2	-55.3	Peak	Horizontal
*	17005.5	37.6	21.2	58.8	108.2	-49.4	Peak	Horizontal
	9372.5	36.3	10.1	46.4	74.0	-27.6	Peak	Vertical
	12356.0	34.6	14.7	49.3	74.0	-24.7	Peak	Vertical
*	14200.5	35.5	17.9	53.4	108.2	-54.8	Peak	Vertical
*	17022.5	37.2	20.9	58.1	108.2	-50.1	Peak	Vertical

Note 1: “*” is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ax-HE40 – Channel 175
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9143.0	36.8	9.5	46.3	74.0	-27.7	Peak	Horizontal
	11735.5	41.3	12.2	53.5	74.0	-20.5	Peak	Horizontal
	11735.5	36.3	12.2	48.5	54.0	-5.5	Average	Horizontal
*	14200.5	35.7	17.9	53.6	108.2	-54.6	Peak	Horizontal
*	16920.5	38.5	20.1	58.6	108.2	-49.6	Peak	Horizontal
	9024.0	35.8	9.0	44.8	74.0	-29.2	Peak	Vertical
	12288.0	35.8	14.3	50.1	74.0	-23.9	Peak	Vertical
*	14192.0	35.9	17.8	53.7	108.2	-54.5	Peak	Vertical
*	17005.5	37.4	21.2	58.6	108.2	-49.6	Peak	Vertical
Note 1: "*" is not in restricted band.								
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ax-HE80 – Channel 171
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9372.5	38.1	10.1	48.2	74.0	-25.8	Peak	Horizontal
	11701.5	41.6	12.4	54.0	74.0	-20.0	Peak	Horizontal
	11701.5	36.4	12.4	48.8	54.0	-5.2	Average	Horizontal
*	14234.5	35.9	17.6	53.5	108.2	-54.7	Peak	Horizontal
*	16920.5	38.8	20.1	58.9	108.2	-49.3	Peak	Horizontal
	9432.0	36.0	9.9	45.9	74.0	-28.1	Peak	Vertical
	12407.0	34.5	14.7	49.2	74.0	-24.8	Peak	Vertical
*	14090.0	35.5	17.6	53.1	108.2	-55.1	Peak	Vertical
*	17252.0	35.6	21.8	57.4	108.2	-50.8	Peak	Vertical
Note 1: “*” is not in restricted band.								
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)								
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	SIP-AC1	Test Engineer	Arvin Ding
Test Date	2024-06-23	Test Mode	802.11ax-HE160 – Channel 163
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not shown in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB/m)	Detector	Polarization
	9347.0	36.8	9.8	46.6	74.0	-27.4	Peak	Horizontal
	12407.0	35.5	14.7	50.2	74.0	-23.8	Peak	Horizontal
*	14209.0	35.2	17.9	53.1	108.2	-55.1	Peak	Horizontal
*	17065.0	37.9	19.9	57.8	108.2	-50.4	Peak	Horizontal
	9415.0	37.1	9.6	46.7	74.0	-27.3	Peak	Vertical
	12305.0	34.9	14.5	49.4	74.0	-24.6	Peak	Vertical
*	14200.5	36.0	17.9	53.9	108.2	-54.3	Peak	Vertical
*	16878.0	36.7	20.5	57.2	108.2	-51.0	Peak	Vertical

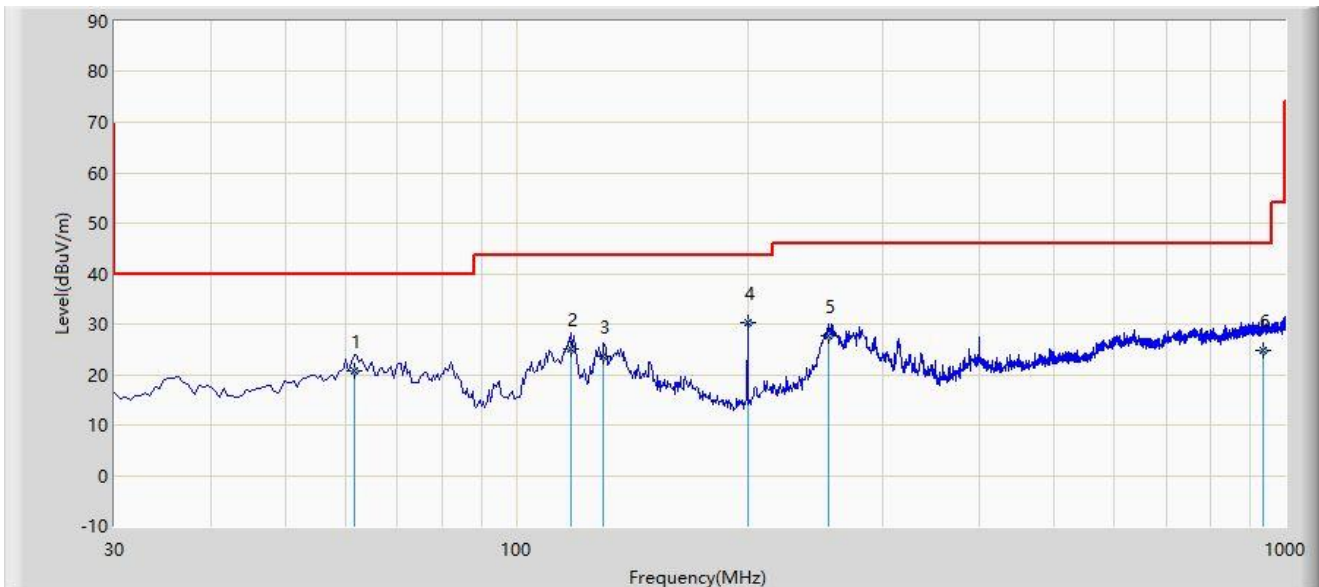
Note 1: “*” is not in restricted band.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Result of Radiated Emission below 1GHz:

Site: SIP-AC1	Test Date: 2024-06-23
Limit: FCC_Part15.209_RSE(3m)_5.9G	Engineer: Arvin Ding
Probe: VULB 9168_00998_25-2000MHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at 5855MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		61.525	20.733	3.485	-19.267	40.000	17.248	QP
2		117.785	24.939	9.425	-18.561	43.500	15.514	QP
3		129.910	23.550	7.012	-19.950	43.500	16.538	QP
4	*	199.750	30.256	15.900	-13.244	43.500	14.355	QP
5		255.040	27.621	11.032	-18.379	46.000	16.589	QP
6		934.525	24.713	-4.875	-21.287	46.000	29.588	QP

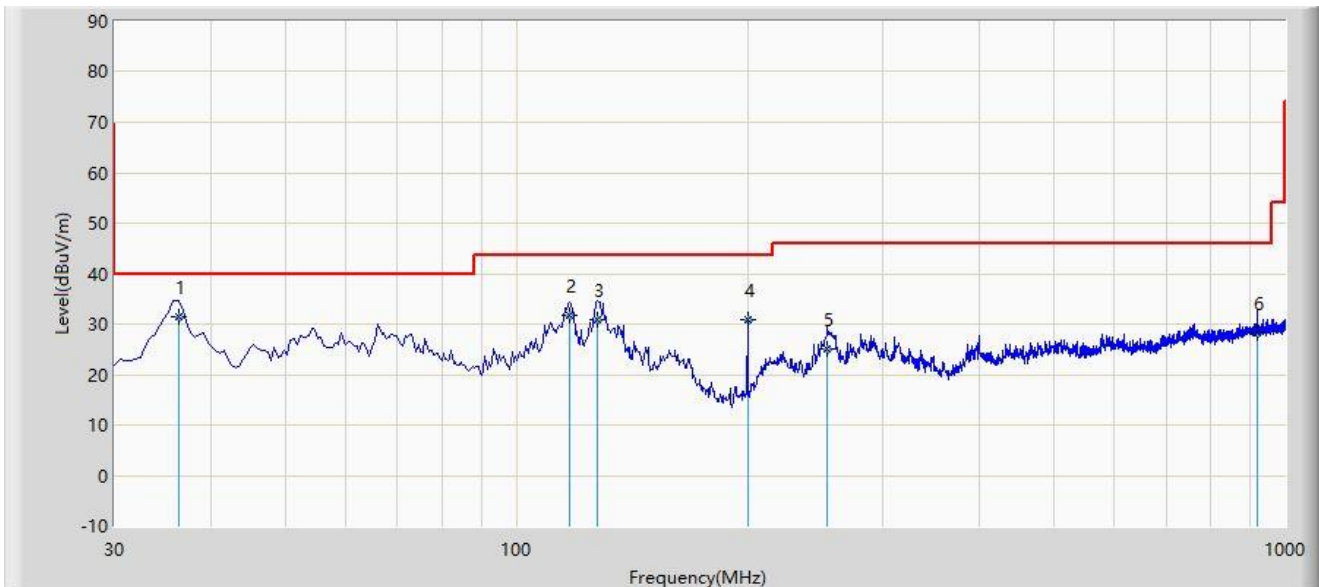
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC1	Test Date: 2024-06-23
Limit: FCC_Part15.209_RSE(3m)_5.9G	Engineer: Arvin Ding
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at 5855MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	36.305	31.318	14.320	-8.682	40.000	16.998	QP
2		117.300	31.613	16.124	-11.887	43.500	15.489	QP
3		127.485	30.902	14.652	-12.598	43.500	16.250	QP
4		199.750	30.896	16.540	-12.604	43.500	14.355	QP
5		253.585	25.175	8.675	-20.825	46.000	16.500	QP
6		920.460	28.329	-1.254	-17.671	46.000	29.583	QP

Note 1: " * ", means this data is the worst emission level.

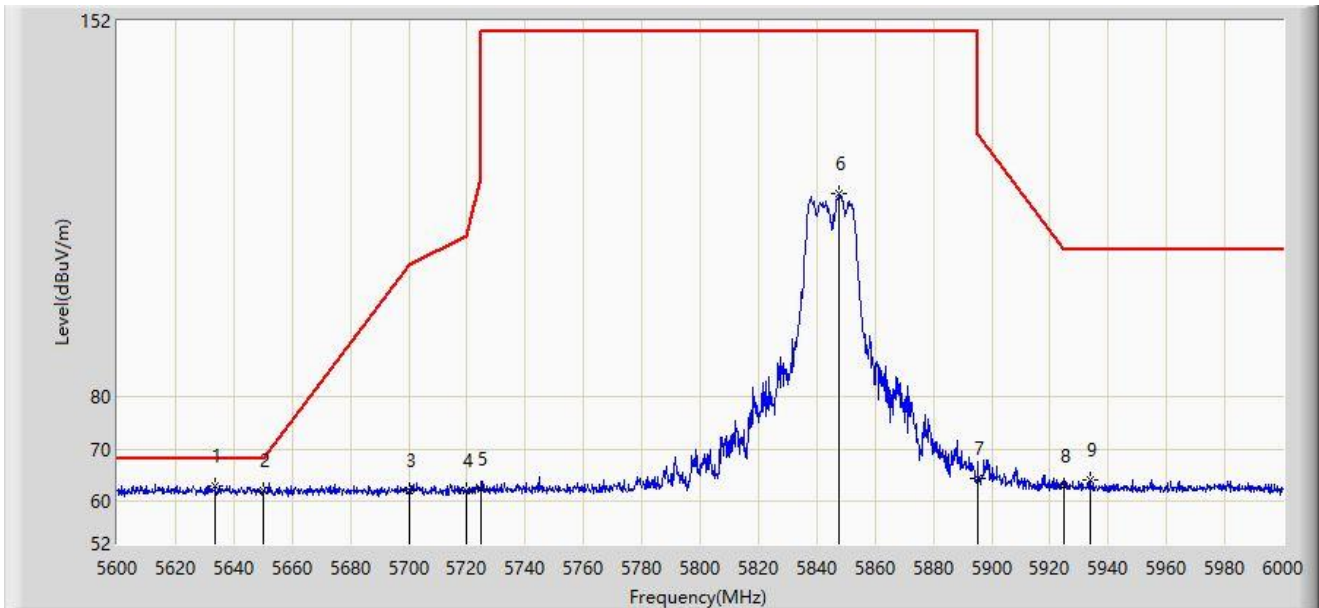
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

A.8 Radiated Restricted Band Edge Test Result

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at 5845MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5633.600	62.890	57.021	-5.310	68.200	5.869	PK
2		5650.000	62.033	56.187	-6.167	68.200	5.846	PK
3		5700.000	62.062	56.258	-43.138	105.200	5.804	PK
4		5720.000	62.263	56.392	-48.537	110.800	5.872	PK
5		5725.000	62.532	56.645	-59.668	122.200	5.887	PK
6		5847.800	118.826	112.683	N/A	N/A	6.143	PK
7		5895.000	64.557	58.238	-65.643	130.200	6.319	PK
8		5925.000	63.056	56.794	-45.144	108.200	6.262	PK
9		5933.600	64.078	57.858	-44.122	108.200	6.221	PK

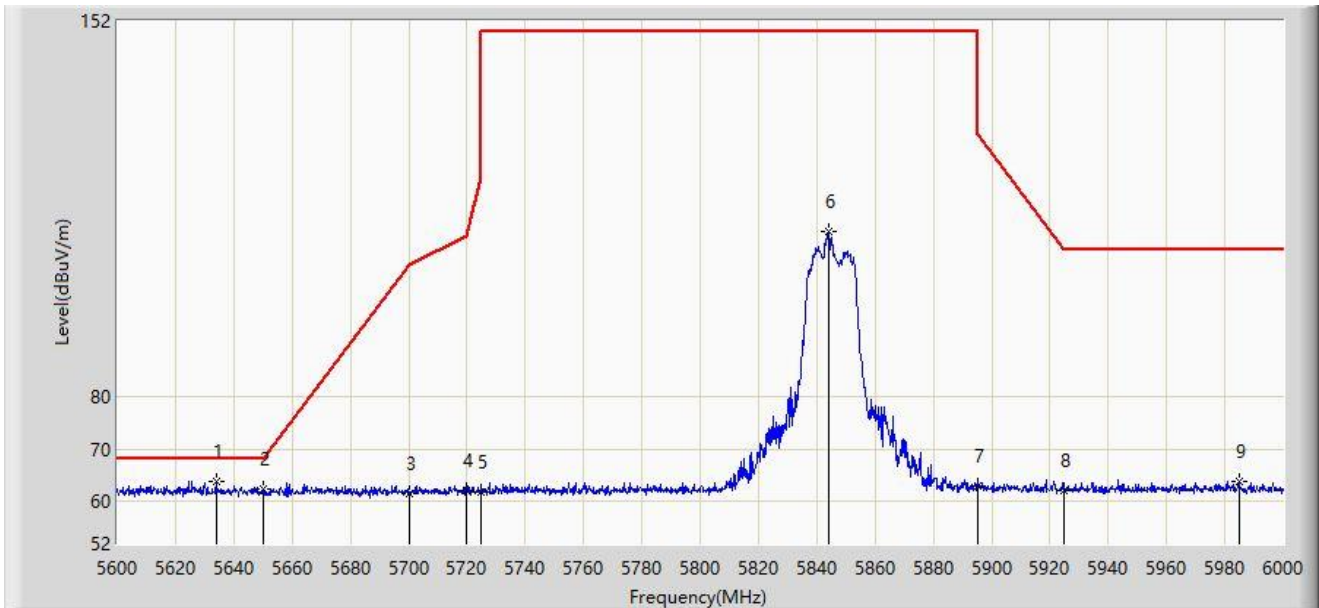
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at 5845MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5634.000	63.785	57.916	-4.415	68.200	5.869	PK
2		5650.000	62.305	56.459	-5.895	68.200	5.846	PK
3		5700.000	61.661	55.857	-43.539	105.200	5.804	PK
4		5720.000	62.273	56.402	-48.527	110.800	5.872	PK
5		5725.000	61.780	55.893	-60.420	122.200	5.887	PK
6		5844.000	111.611	105.463	N/A	N/A	6.148	PK
7		5895.000	63.005	56.686	-67.195	130.200	6.319	PK
8		5925.000	62.124	55.862	-46.076	108.200	6.262	PK
9		5984.800	64.019	57.578	-44.181	108.200	6.440	PK

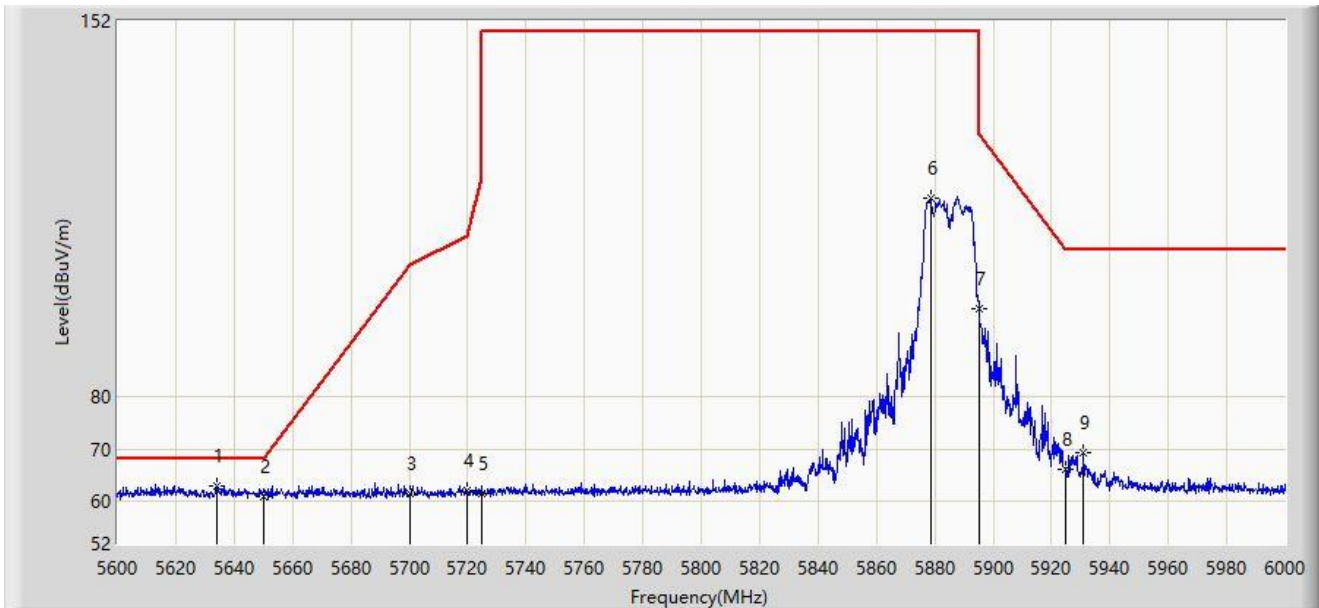
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at 5885MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5634.200	62.910	57.041	-5.290	68.200	5.869	PK
2		5650.000	60.879	55.033	-7.321	68.200	5.846	PK
3		5700.000	61.462	55.658	-43.738	105.200	5.804	PK
4		5720.000	62.224	56.353	-48.576	110.800	5.872	PK
5		5725.000	61.500	55.613	-60.700	122.200	5.887	PK
6		5878.600	118.205	112.006	N/A	N/A	6.200	PK
7		5895.000	96.952	90.633	-33.248	130.200	6.319	PK
8		5925.000	66.232	59.970	-41.968	108.200	6.262	PK
9		5931.000	69.291	63.060	-38.909	108.200	6.231	PK

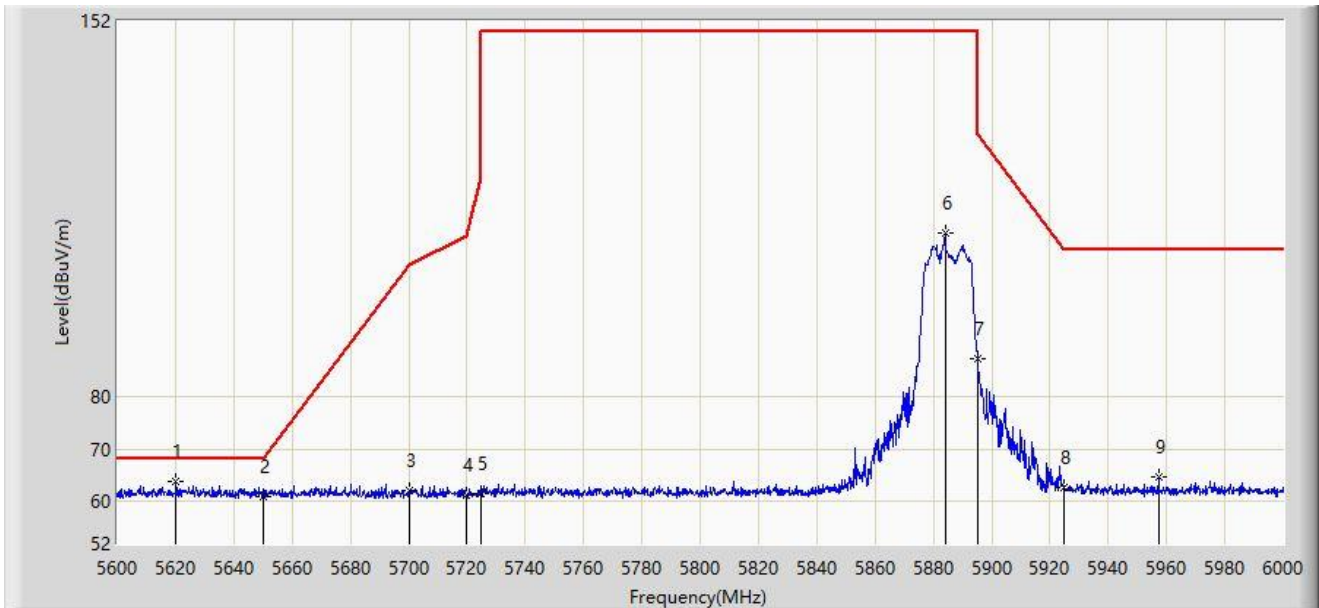
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at 5885MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5620.000	63.751	57.845	-4.449	68.200	5.906	PK
2		5650.000	61.046	55.200	-7.154	68.200	5.846	PK
3		5700.000	62.046	56.242	-43.154	105.200	5.804	PK
4		5720.000	61.354	55.483	-49.446	110.800	5.872	PK
5		5725.000	61.532	55.645	-60.668	122.200	5.887	PK
6		5884.000	111.305	105.067	N/A	N/A	6.238	PK
7		5895.000	87.488	81.169	-42.712	130.200	6.319	PK
8		5925.000	62.745	56.483	-45.455	108.200	6.262	PK
9		5957.400	64.706	58.487	-43.494	108.200	6.219	PK

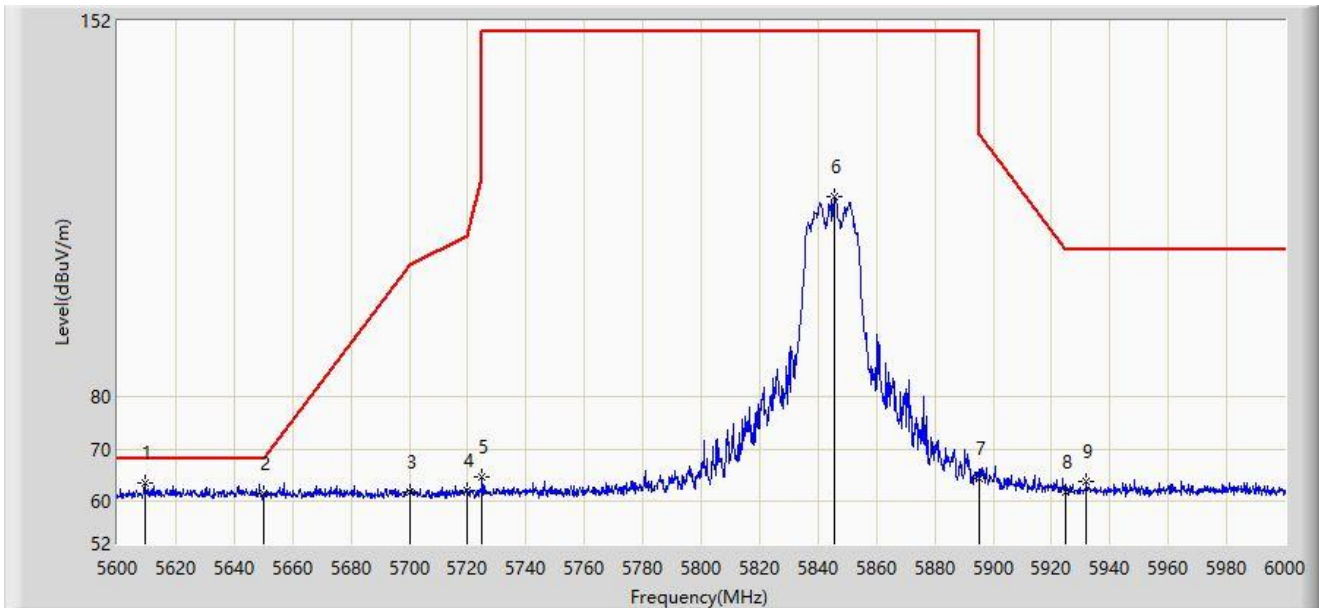
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at 5845MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5609.400	63.558	57.556	-4.642	68.200	6.001	PK
2		5650.000	61.453	55.607	-6.747	68.200	5.846	PK
3		5700.000	61.782	55.978	-43.418	105.200	5.804	PK
4		5720.000	62.018	56.147	-48.782	110.800	5.872	PK
5		5725.000	64.707	58.820	-57.493	122.200	5.887	PK
6		5845.600	118.396	112.250	N/A	N/A	6.146	PK
7		5895.000	64.485	58.166	-65.715	130.200	6.319	PK
8		5925.000	61.984	55.722	-46.216	108.200	6.262	PK
9		5931.800	63.886	57.658	-44.314	108.200	6.228	PK

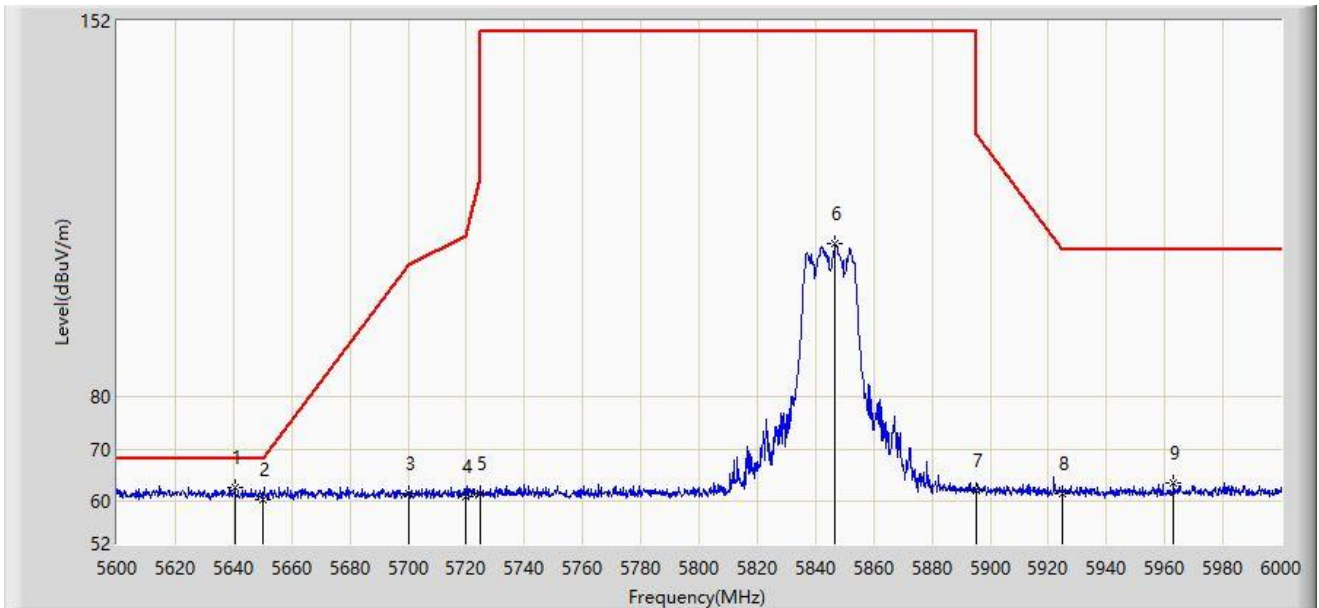
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at 5845MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5640.600	62.754	56.886	-5.446	68.200	5.868	PK
2		5650.000	60.445	54.599	-7.755	68.200	5.846	PK
3		5700.000	61.504	55.700	-43.696	105.200	5.804	PK
4		5720.000	61.036	55.165	-49.764	110.800	5.872	PK
5		5725.000	61.593	55.706	-60.607	122.200	5.887	PK
6		5846.800	109.321	103.177	N/A	N/A	6.145	PK
7		5895.000	62.240	55.921	-67.960	130.200	6.319	PK
8		5925.000	61.699	55.437	-46.501	108.200	6.262	PK
9		5963.000	63.568	57.319	-44.632	108.200	6.250	PK

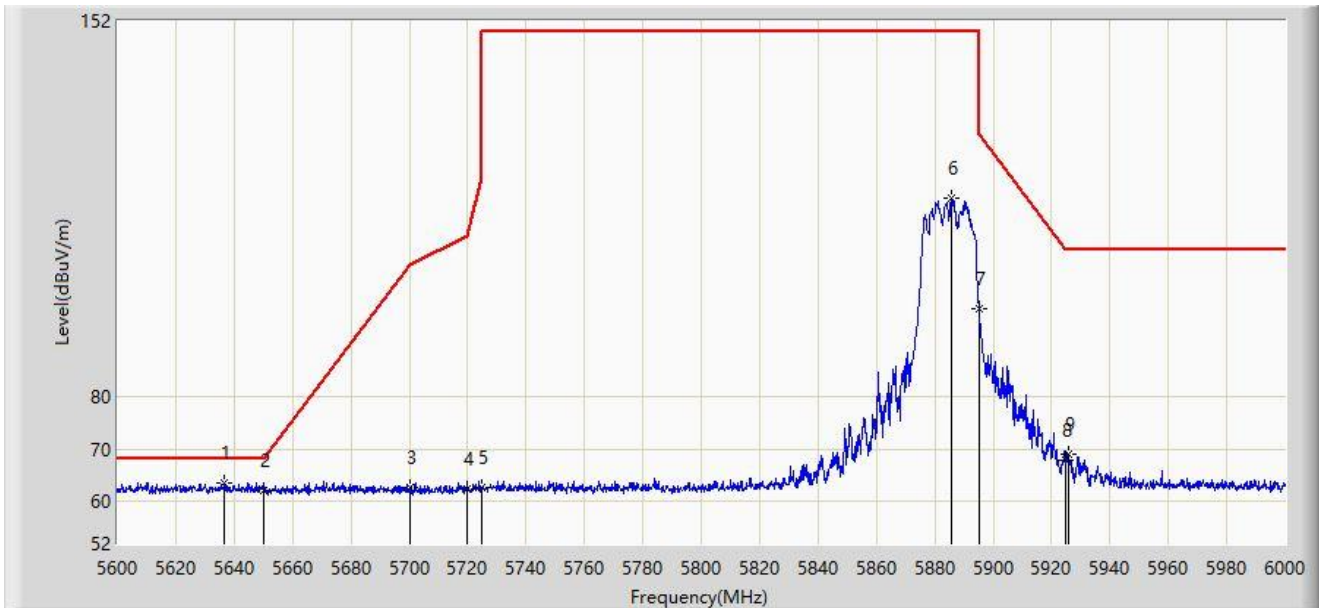
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at 5885MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5636.800	63.457	57.588	-4.743	68.200	5.869	PK
2		5650.000	62.003	56.157	-6.197	68.200	5.846	PK
3		5700.000	62.850	57.046	-42.350	105.200	5.804	PK
4		5720.000	62.296	56.425	-48.504	110.800	5.872	PK
5		5725.000	62.640	56.753	-59.560	122.200	5.887	PK
6		5885.800	118.192	111.941	N/A	N/A	6.251	PK
7		5895.000	97.034	90.715	-33.166	130.200	6.319	PK
8		5925.000	68.037	61.775	-40.163	108.200	6.262	PK
9		5925.600	68.977	62.718	-39.223	108.200	6.258	PK

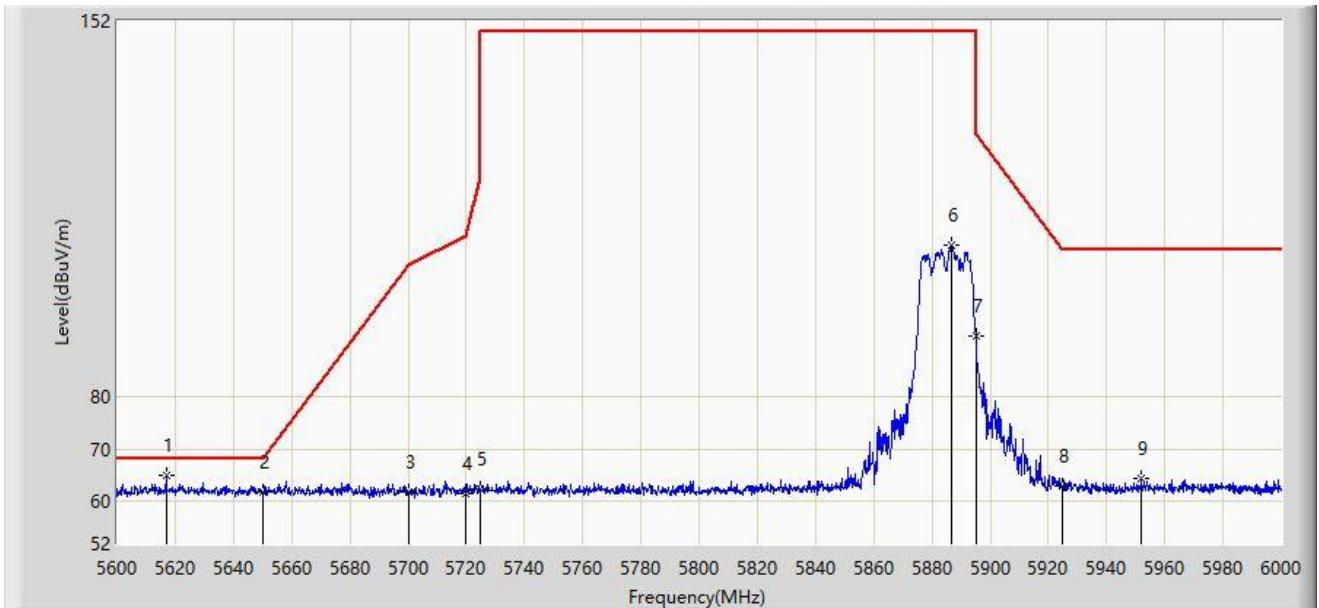
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at 5885MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5616.800	65.183	59.248	-3.017	68.200	5.935	PK
2		5650.000	61.900	56.054	-6.300	68.200	5.846	PK
3		5700.000	61.840	56.036	-43.360	105.200	5.804	PK
4		5720.000	61.543	55.672	-49.257	110.800	5.872	PK
5		5725.000	62.351	56.464	-59.849	122.200	5.887	PK
6		5886.800	109.098	102.839	N/A	N/A	6.259	PK
7		5895.000	91.776	85.457	-38.424	130.200	6.319	PK
8		5925.000	63.025	56.763	-45.175	108.200	6.262	PK
9		5952.000	64.420	58.231	-43.780	108.200	6.189	PK

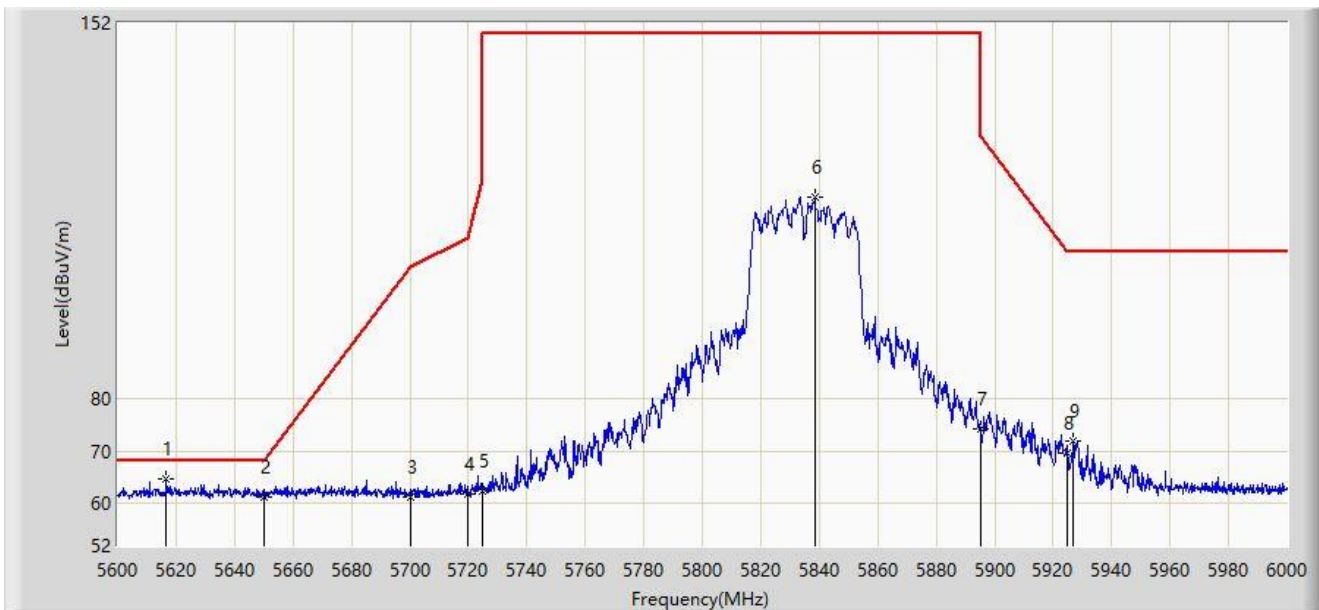
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBμV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at 5835MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5616.600	64.637	58.700	-3.563	68.200	5.937	PK
2		5650.000	61.245	55.399	-6.955	68.200	5.846	PK
3		5700.000	61.374	55.570	-43.826	105.200	5.804	PK
4		5720.000	61.942	56.071	-48.858	110.800	5.872	PK
5		5725.000	62.457	56.570	-59.743	122.200	5.887	PK
6		5838.600	118.810	112.655	N/A	N/A	6.154	PK
7		5895.000	74.431	68.112	-55.769	130.200	6.319	PK
8		5925.000	69.731	63.469	-38.469	108.200	6.262	PK
9		5927.000	71.920	65.668	-36.280	108.200	6.251	PK

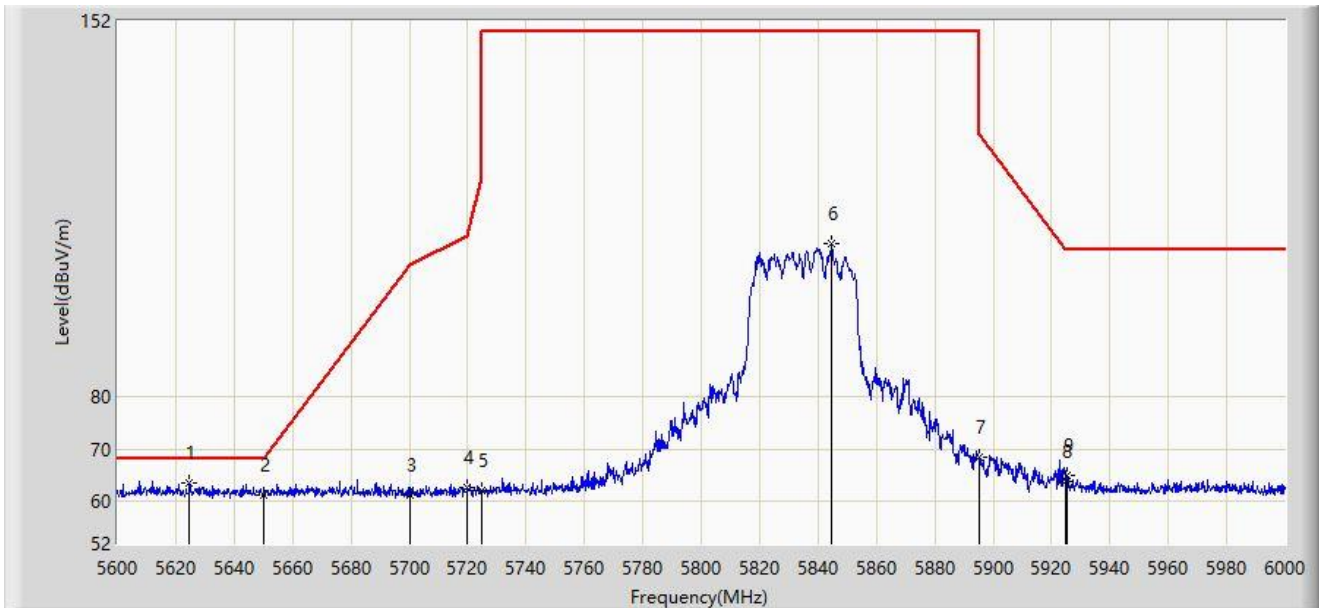
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at 5835MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5624.800	63.451	57.581	-4.749	68.200	5.870	PK
2		5650.000	61.137	55.291	-7.063	68.200	5.846	PK
3		5700.000	61.353	55.549	-43.847	105.200	5.804	PK
4		5720.000	62.844	56.973	-47.956	110.800	5.872	PK
5		5725.000	62.221	56.334	-59.979	122.200	5.887	PK
6		5844.800	109.326	103.179	N/A	N/A	6.148	PK
7		5895.000	68.539	62.220	-61.661	130.200	6.319	PK
8		5925.000	63.938	57.676	-44.262	108.200	6.262	PK
9		5925.400	65.042	58.782	-43.158	108.200	6.260	PK

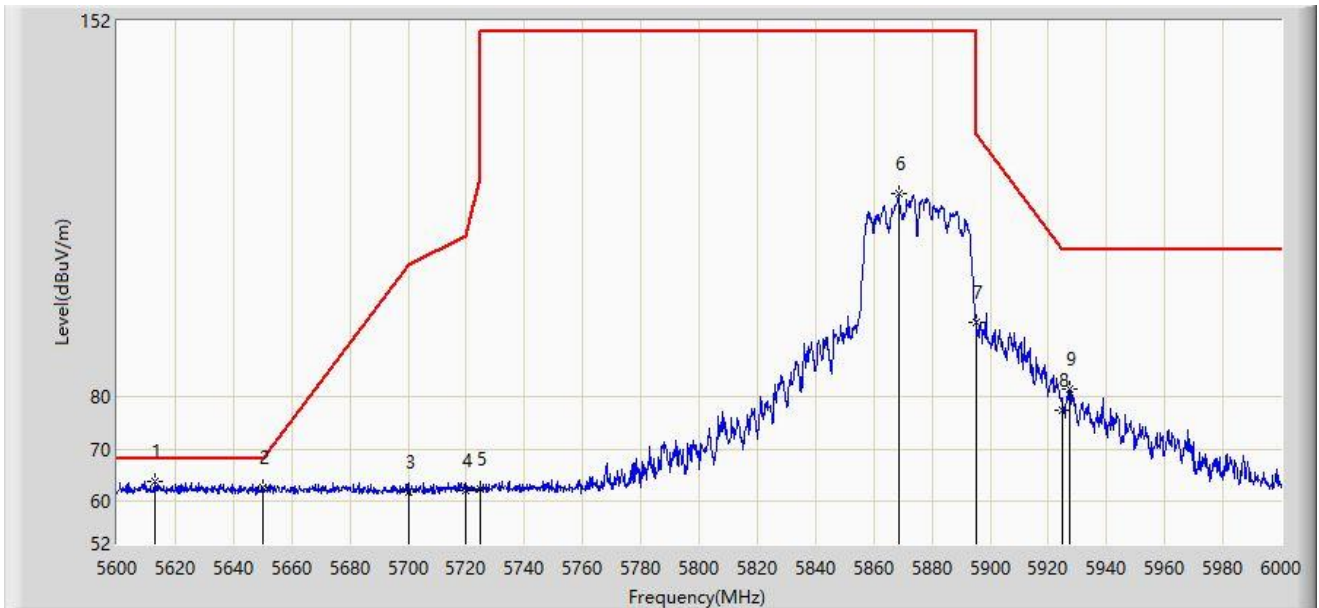
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at 5875MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5612.800	63.740	57.769	-4.460	68.200	5.971	PK
2		5650.000	62.613	56.767	-5.587	68.200	5.846	PK
3		5700.000	61.766	55.962	-43.434	105.200	5.804	PK
4		5720.000	62.275	56.404	-48.525	110.800	5.872	PK
5		5725.000	62.383	56.496	-59.817	122.200	5.887	PK
6		5868.600	118.858	112.707	N/A	N/A	6.151	PK
7		5895.000	94.250	87.931	-35.950	130.200	6.319	PK
8		5925.000	77.491	71.229	-30.709	108.200	6.262	PK
9		5927.200	81.650	75.400	-26.550	108.200	6.250	PK

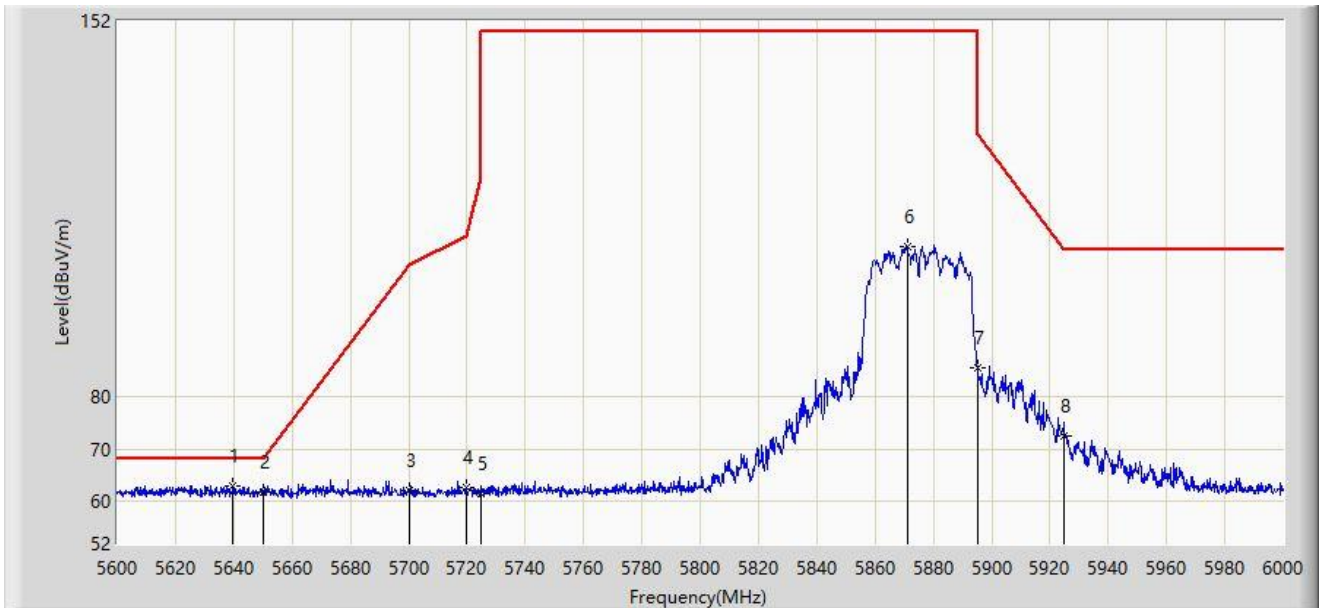
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBμV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at 5875MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5639.600	63.097	57.228	-5.103	68.200	5.869	PK
2		5650.000	61.779	55.933	-6.421	68.200	5.846	PK
3		5700.000	62.080	56.276	-43.120	105.200	5.804	PK
4		5720.000	62.608	56.737	-48.192	110.800	5.872	PK
5		5725.000	61.649	55.762	-60.551	122.200	5.887	PK
6		5871.200	108.871	102.707	N/A	N/A	6.164	PK
7		5895.000	85.512	79.193	-44.688	130.200	6.319	PK
8		5925.000	72.624	66.362	-35.576	108.200	6.262	PK

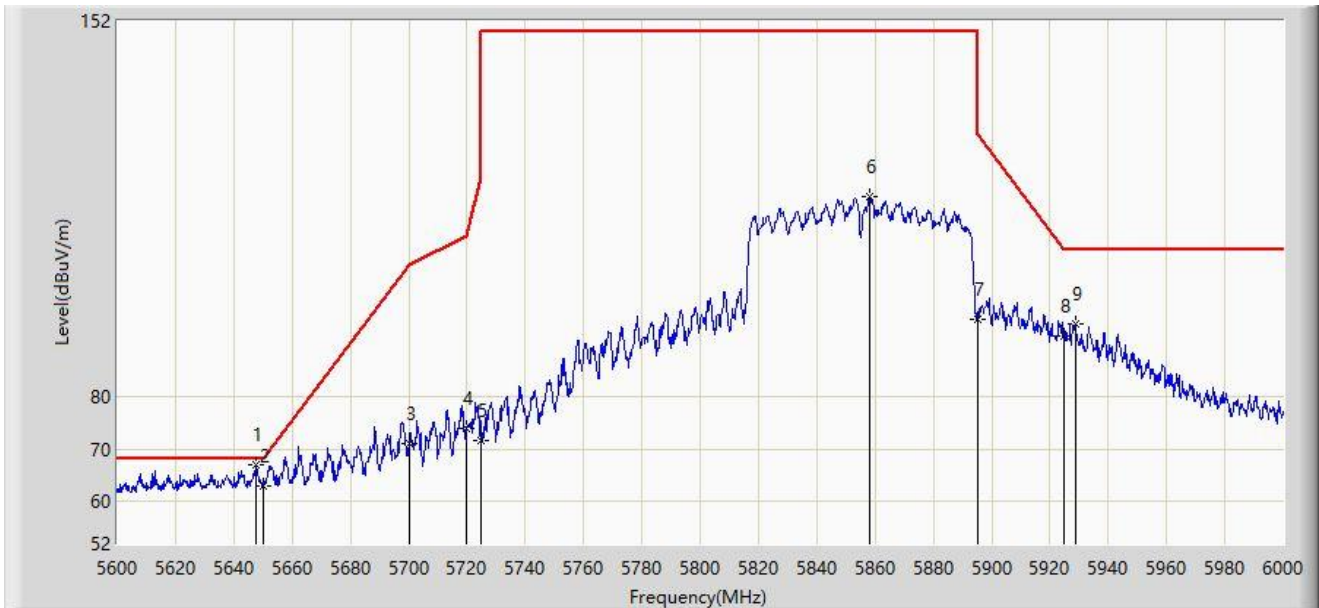
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at 5855MHz	



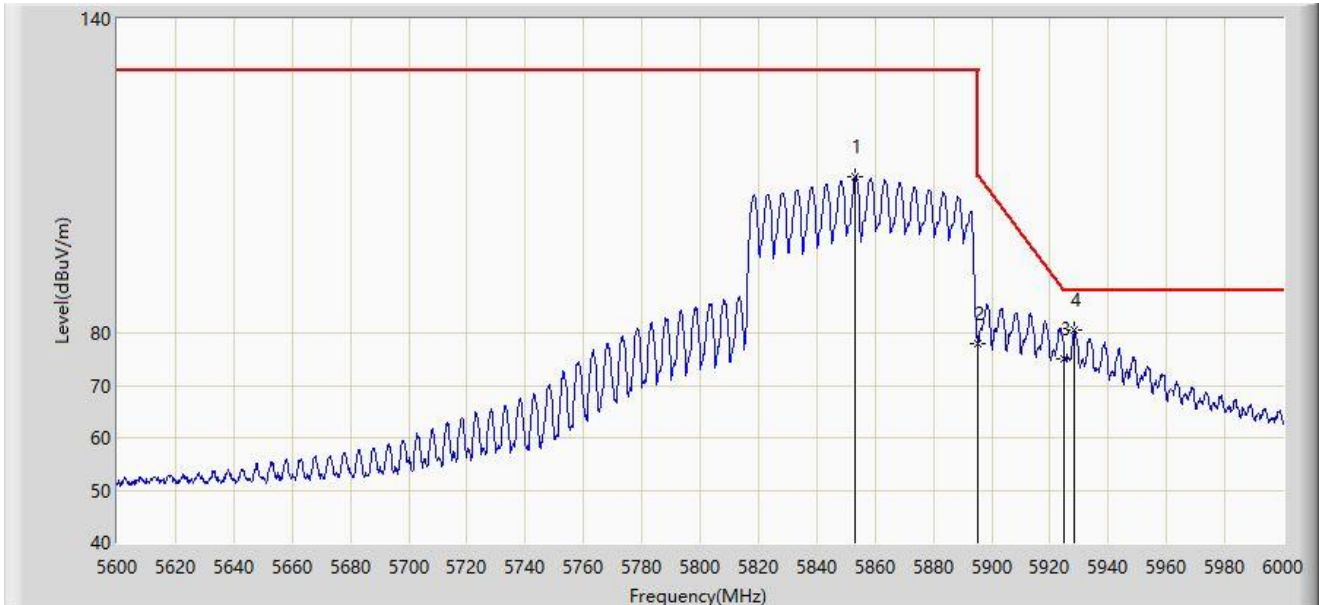
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5647.800	67.157	61.305	-1.043	68.200	5.852	PK
2		5650.000	63.003	57.157	-5.197	68.200	5.846	PK
3		5700.000	71.057	65.253	-34.143	105.200	5.804	PK
4		5720.000	74.040	68.169	-36.760	110.800	5.872	PK
5		5725.000	71.786	65.899	-50.414	122.200	5.887	PK
6		5858.000	118.447	112.321	N/A	N/A	6.126	PK
7		5895.000	94.945	88.626	-35.255	130.200	6.319	PK
8		5925.000	91.832	85.570	-16.368	108.200	6.262	PK
9		5928.600	94.057	87.814	-14.143	108.200	6.244	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at 5855MHz	



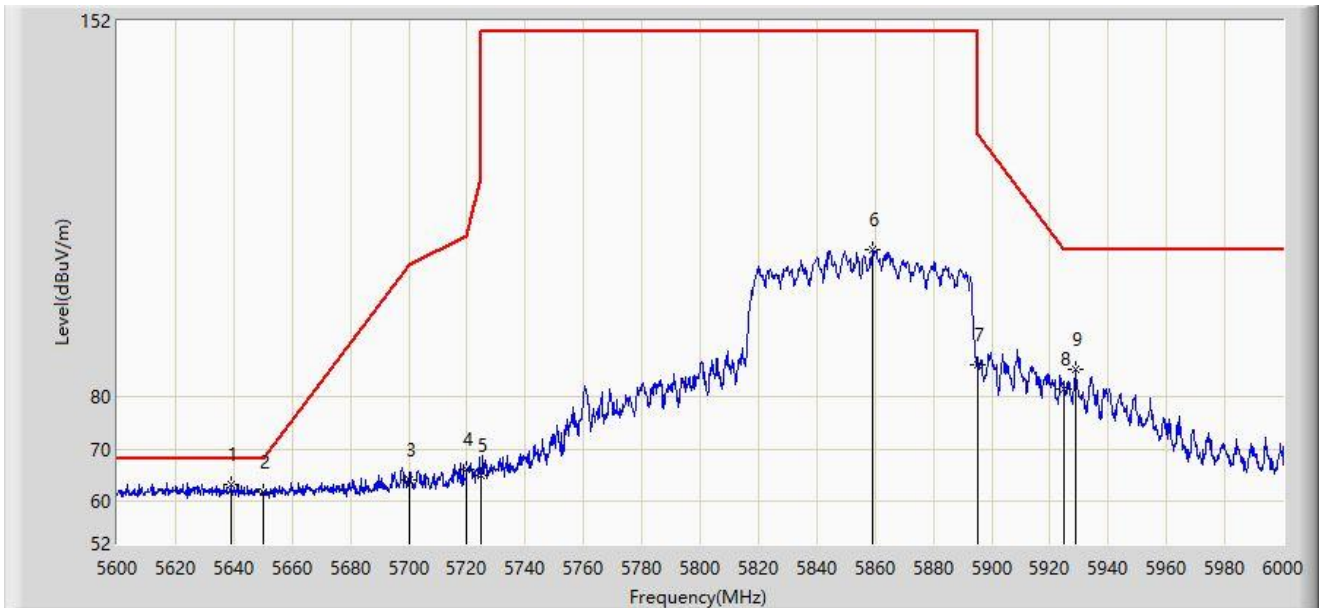
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5853.200	109.783	103.649	N/A	N/A	6.134	AV
2		5895.000	78.093	71.774	-32.107	110.200	6.319	AV
3		5925.000	75.088	68.826	-13.112	88.200	6.262	AV
4	*	5928.400	80.571	74.327	-7.629	88.200	6.244	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at 5855MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5639.000	63.274	57.405	-4.926	68.200	5.868	PK
2		5650.000	61.807	55.961	-6.393	68.200	5.846	PK
3		5700.000	64.296	58.492	-40.904	105.200	5.804	PK
4		5720.000	66.306	60.435	-44.494	110.800	5.872	PK
5		5725.000	65.108	59.221	-57.092	122.200	5.887	PK
6		5859.200	108.169	102.045	N/A	N/A	6.124	PK
7		5895.000	86.070	79.751	-44.130	130.200	6.319	PK
8		5925.000	81.421	75.159	-26.779	108.200	6.262	PK
9		5928.600	85.220	78.977	-22.980	108.200	6.244	PK

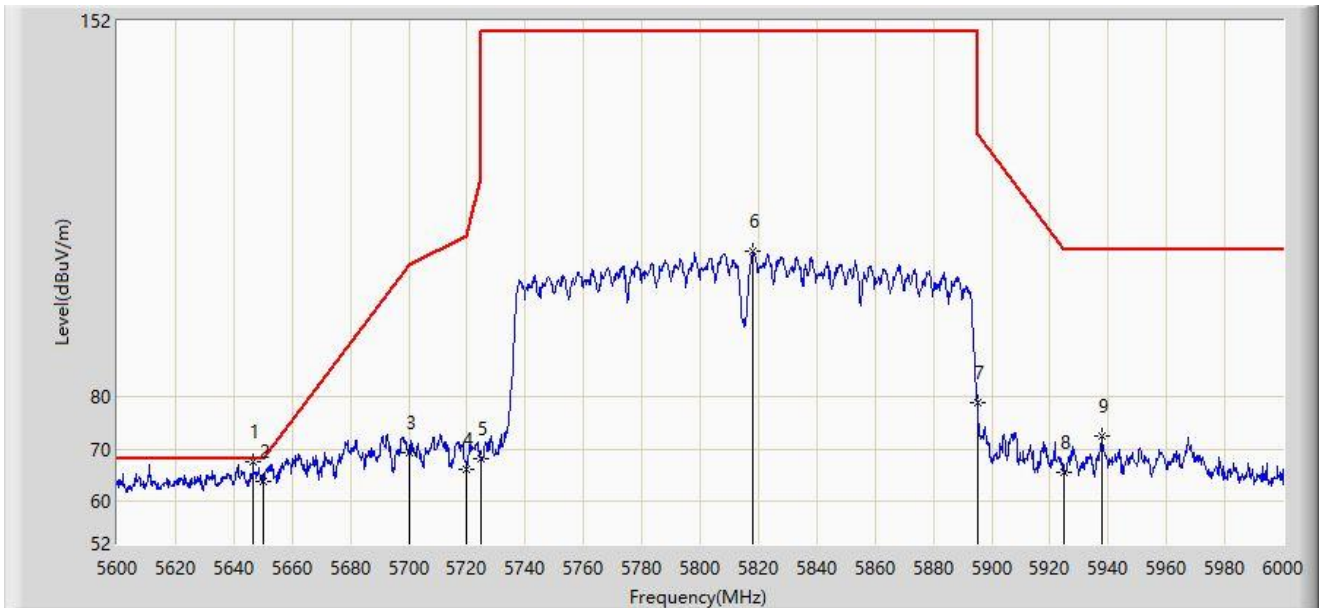
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT160 at 5815MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5646.600	67.530	61.675	-0.670	68.200	5.855	PK
2		5650.000	63.772	57.926	-4.428	68.200	5.846	PK
3		5700.000	69.391	63.587	-35.809	105.200	5.804	PK
4		5720.000	66.337	60.466	-44.463	110.800	5.872	PK
5		5725.000	68.222	62.335	-53.978	122.200	5.887	PK
6		5818.000	107.991	101.947	N/A	N/A	6.044	PK
7		5895.000	78.994	72.675	-51.206	130.200	6.319	PK
8		5925.000	65.519	59.257	-42.681	108.200	6.262	PK
9		5937.800	72.556	66.354	-35.644	108.200	6.202	PK

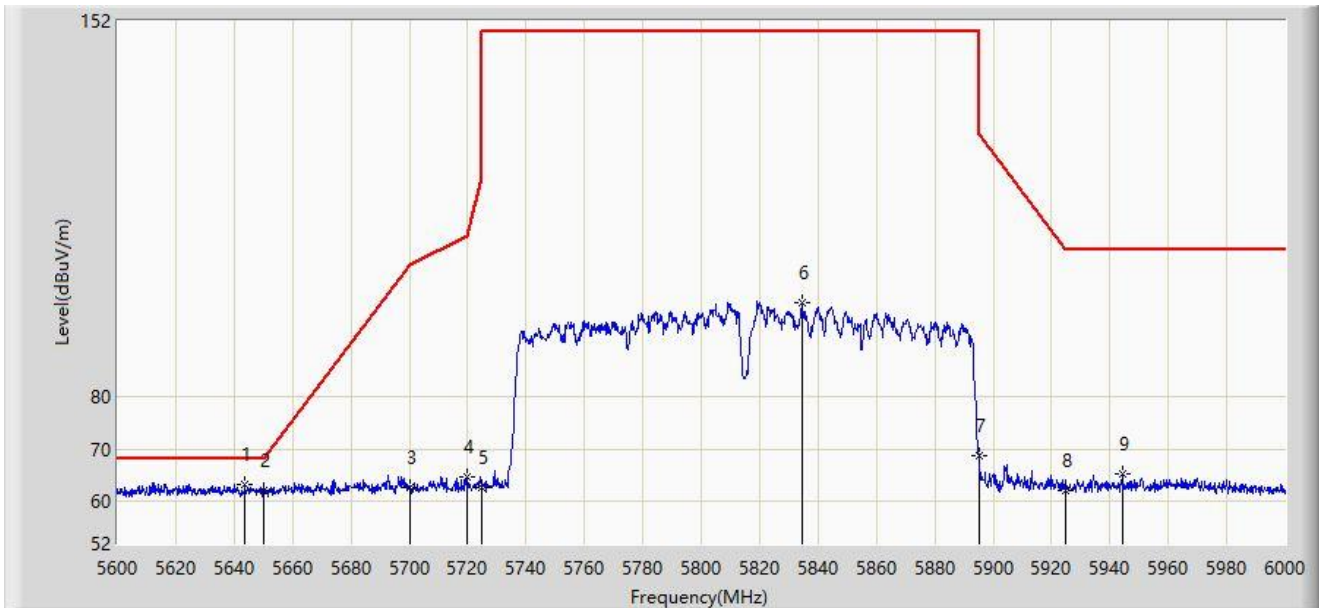
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBμV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT160 at 5815MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5643.600	63.439	57.577	-4.761	68.200	5.861	PK
2		5650.000	62.038	56.192	-6.162	68.200	5.846	PK
3		5700.000	62.642	56.838	-42.558	105.200	5.804	PK
4		5720.000	64.740	58.869	-46.060	110.800	5.872	PK
5		5725.000	62.710	56.823	-59.490	122.200	5.887	PK
6		5834.400	98.101	91.941	N/A	N/A	6.161	PK
7		5895.000	68.751	62.432	-61.449	130.200	6.319	PK
8		5925.000	62.265	56.003	-45.935	108.200	6.262	PK
9		5944.200	65.357	59.183	-42.843	108.200	6.174	PK

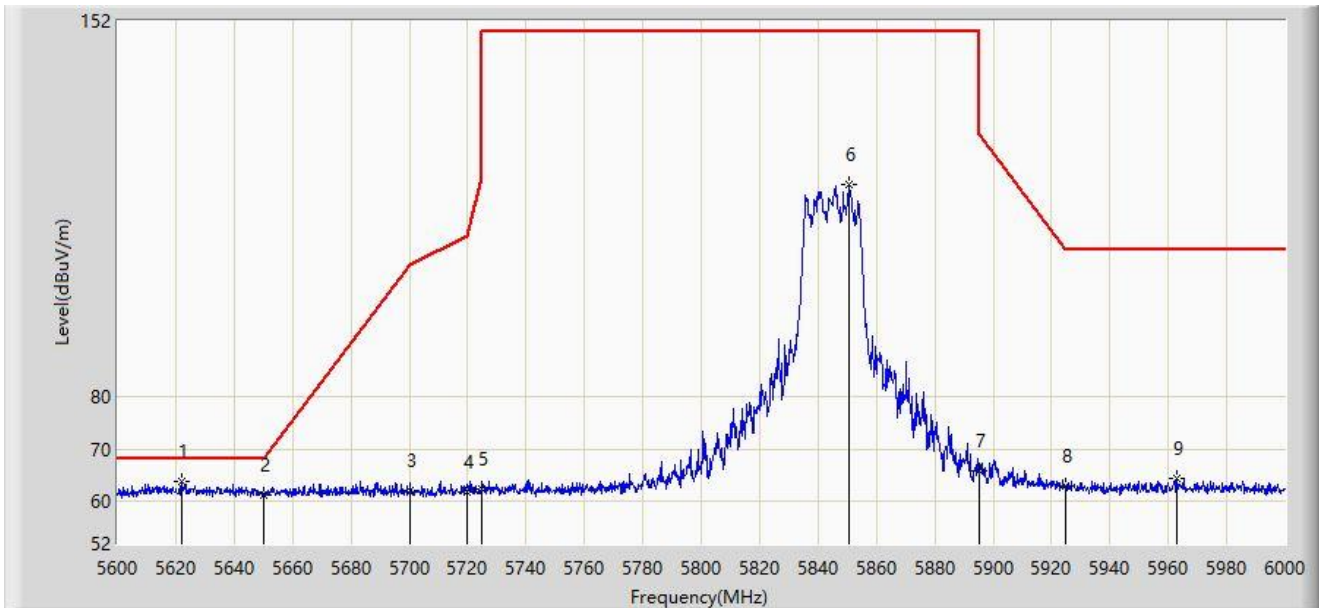
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBμV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at 5845MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5622.200	63.784	57.898	-4.416	68.200	5.886	PK
2		5650.000	61.331	55.485	-6.869	68.200	5.846	PK
3		5700.000	62.021	56.217	-43.179	105.200	5.804	PK
4		5720.000	61.821	55.950	-48.979	110.800	5.872	PK
5		5725.000	62.445	56.558	-59.755	122.200	5.887	PK
6		5850.600	120.588	114.450	N/A	N/A	6.138	PK
7		5895.000	65.897	59.578	-64.303	130.200	6.319	PK
8		5925.000	63.154	56.892	-45.046	108.200	6.262	PK
9		5963.000	64.468	58.219	-43.732	108.200	6.250	PK

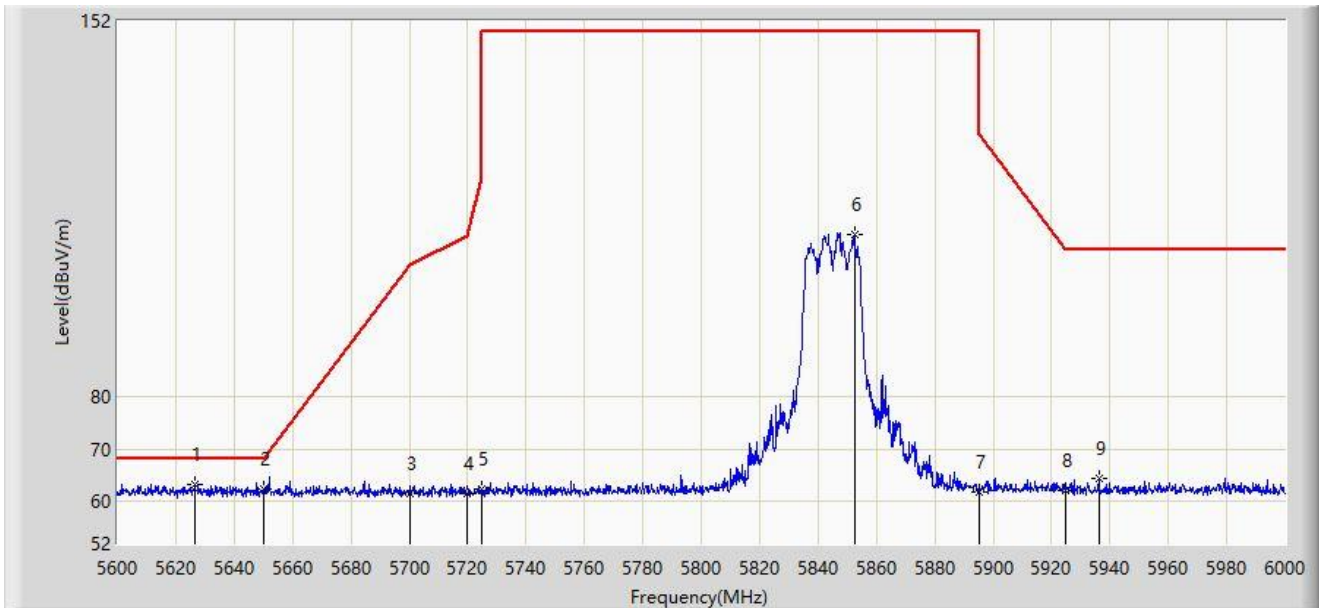
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBμV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at 5845MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5626.600	63.414	57.544	-4.786	68.200	5.870	PK
2		5650.000	62.310	56.464	-5.890	68.200	5.846	PK
3		5700.000	61.529	55.725	-43.671	105.200	5.804	PK
4		5720.000	61.649	55.778	-49.151	110.800	5.872	PK
5		5725.000	62.336	56.449	-59.864	122.200	5.887	PK
6		5852.400	111.233	105.098	N/A	N/A	6.135	PK
7		5895.000	61.895	55.576	-68.305	130.200	6.319	PK
8		5925.000	62.167	55.905	-46.033	108.200	6.262	PK
9		5936.200	64.376	58.167	-43.824	108.200	6.209	PK

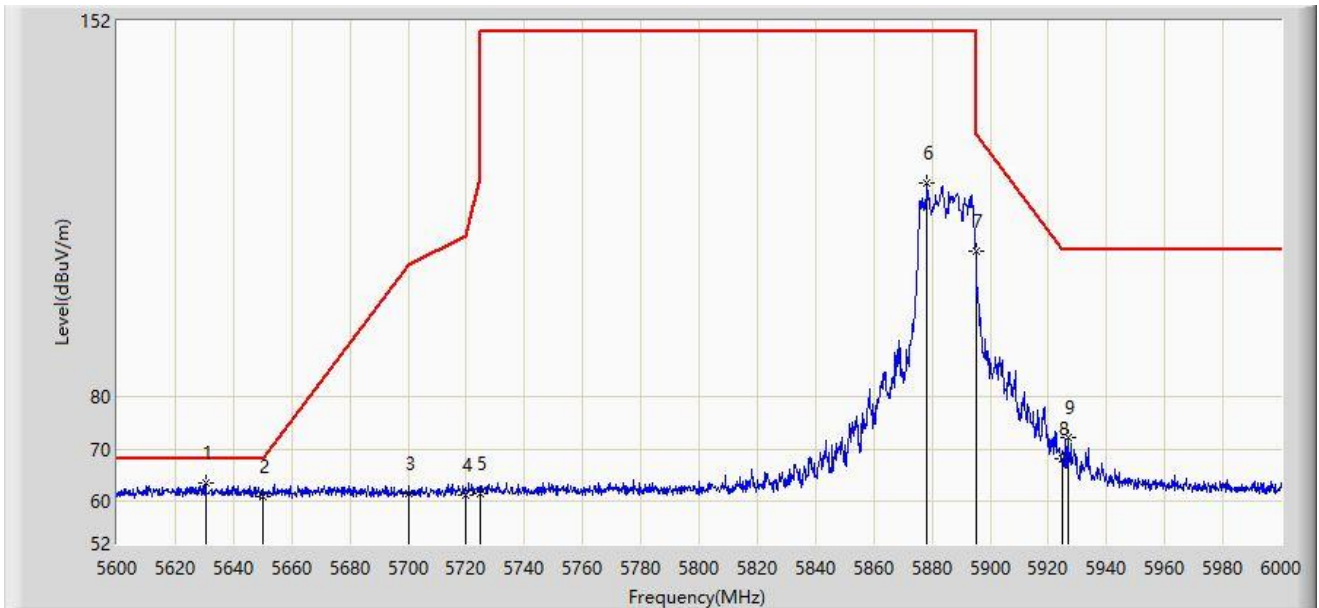
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at 5885MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5630.400	63.586	57.716	-4.614	68.200	5.869	PK
2		5650.000	60.898	55.052	-7.302	68.200	5.846	PK
3		5700.000	61.484	55.680	-43.716	105.200	5.804	PK
4		5720.000	61.325	55.454	-49.475	110.800	5.872	PK
5		5725.000	61.622	55.735	-60.578	122.200	5.887	PK
6		5878.400	121.019	114.820	N/A	N/A	6.199	PK
7		5895.000	107.910	101.591	-22.290	130.200	6.319	PK
8		5925.000	68.206	61.944	-39.994	108.200	6.262	PK
9		5926.600	72.293	66.039	-35.907	108.200	6.254	PK

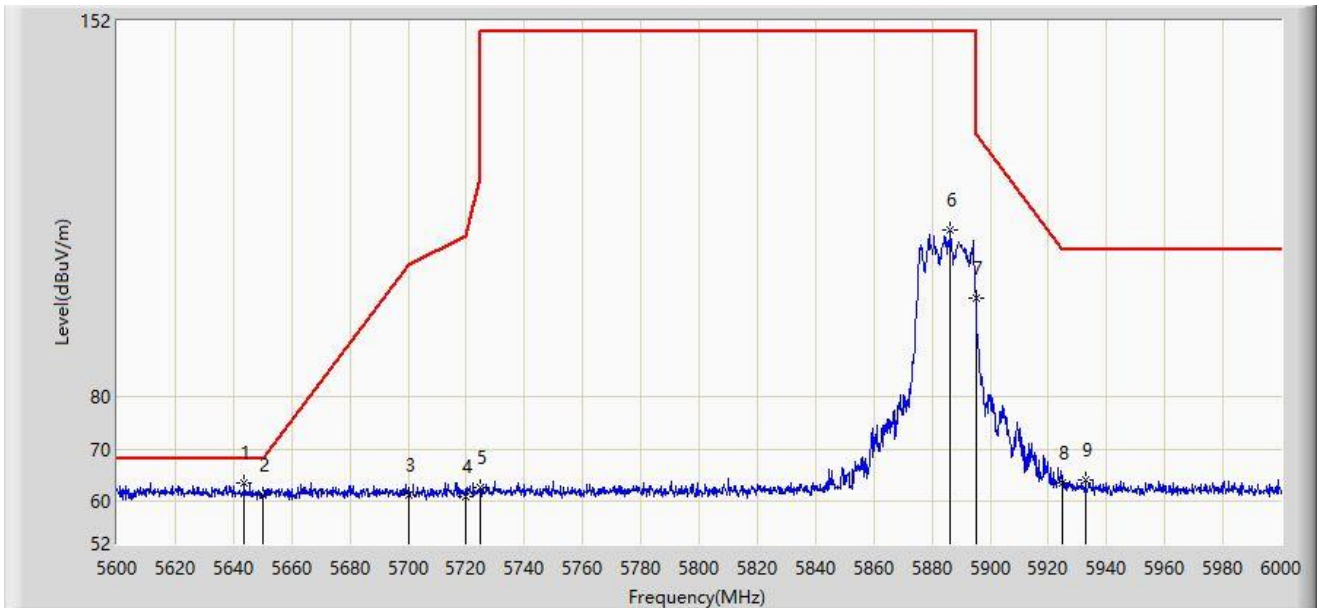
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE20 at 5885MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5643.600	63.540	57.678	-4.660	68.200	5.861	PK
2		5650.000	61.367	55.521	-6.833	68.200	5.846	PK
3		5700.000	61.227	55.423	-43.973	105.200	5.804	PK
4		5720.000	61.080	55.209	-49.720	110.800	5.872	PK
5		5725.000	62.680	56.793	-59.520	122.200	5.887	PK
6		5886.400	111.971	105.715	N/A	N/A	6.256	PK
7		5895.000	98.992	92.673	-31.208	130.200	6.319	PK
8		5925.000	63.455	57.193	-44.745	108.200	6.262	PK
9		5932.800	64.142	57.919	-44.058	108.200	6.224	PK

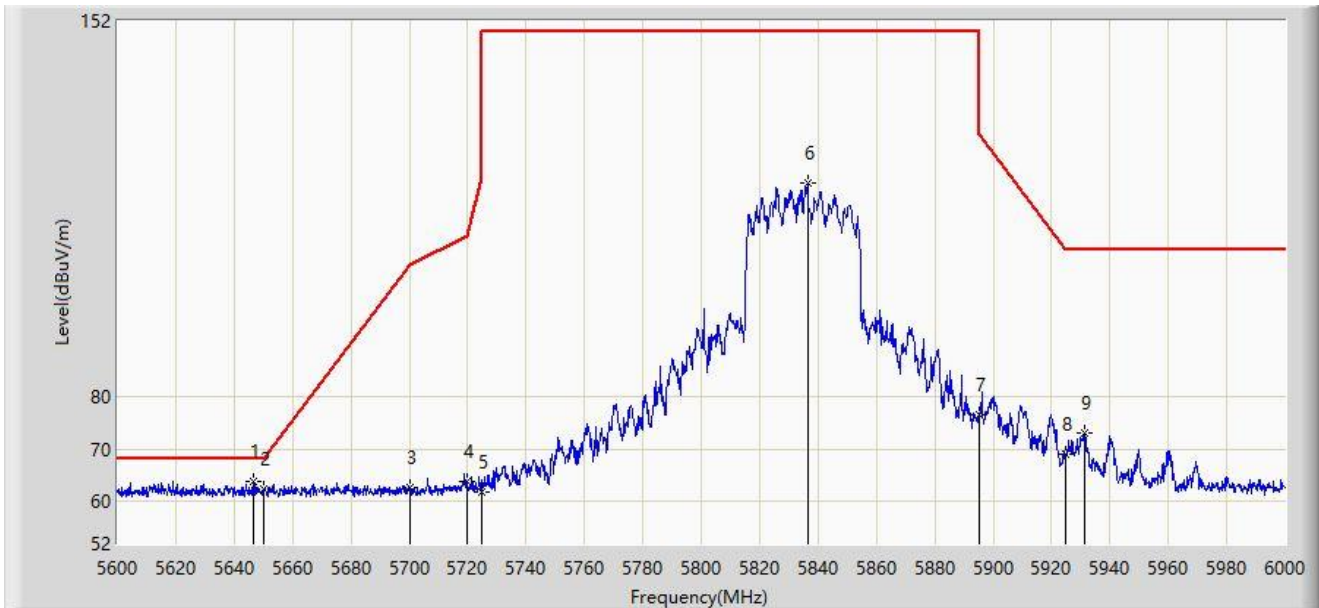
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at 5835MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5646.400	63.784	57.929	-4.416	68.200	5.855	PK
2		5650.000	62.376	56.530	-5.824	68.200	5.846	PK
3		5700.000	62.703	56.899	-42.497	105.200	5.804	PK
4		5720.000	63.928	58.057	-46.872	110.800	5.872	PK
5		5725.000	61.977	56.090	-60.223	122.200	5.887	PK
6		5836.400	120.855	114.697	N/A	N/A	6.157	PK
7		5895.000	76.657	70.338	-53.543	130.200	6.319	PK
8		5925.000	69.008	62.746	-39.192	108.200	6.262	PK
9		5931.400	73.050	66.821	-35.150	108.200	6.230	PK

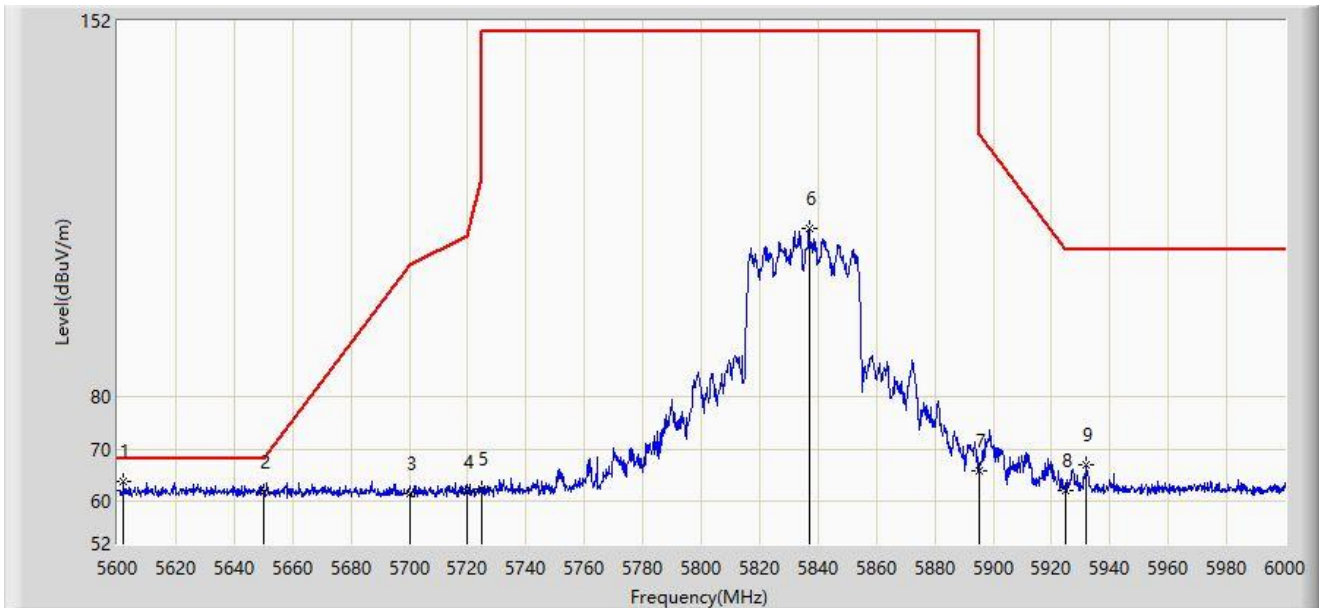
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at 5835MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5602.200	63.832	57.834	-4.368	68.200	5.997	PK
2		5650.000	61.801	55.955	-6.399	68.200	5.846	PK
3		5700.000	61.598	55.794	-43.602	105.200	5.804	PK
4		5720.000	61.891	56.020	-48.909	110.800	5.872	PK
5		5725.000	62.367	56.480	-59.833	122.200	5.887	PK
6		5837.000	112.219	106.062	N/A	N/A	6.156	PK
7		5895.000	65.862	59.543	-64.338	130.200	6.319	PK
8		5925.000	62.247	55.985	-45.953	108.200	6.262	PK
9		5932.000	66.940	60.713	-41.260	108.200	6.227	PK

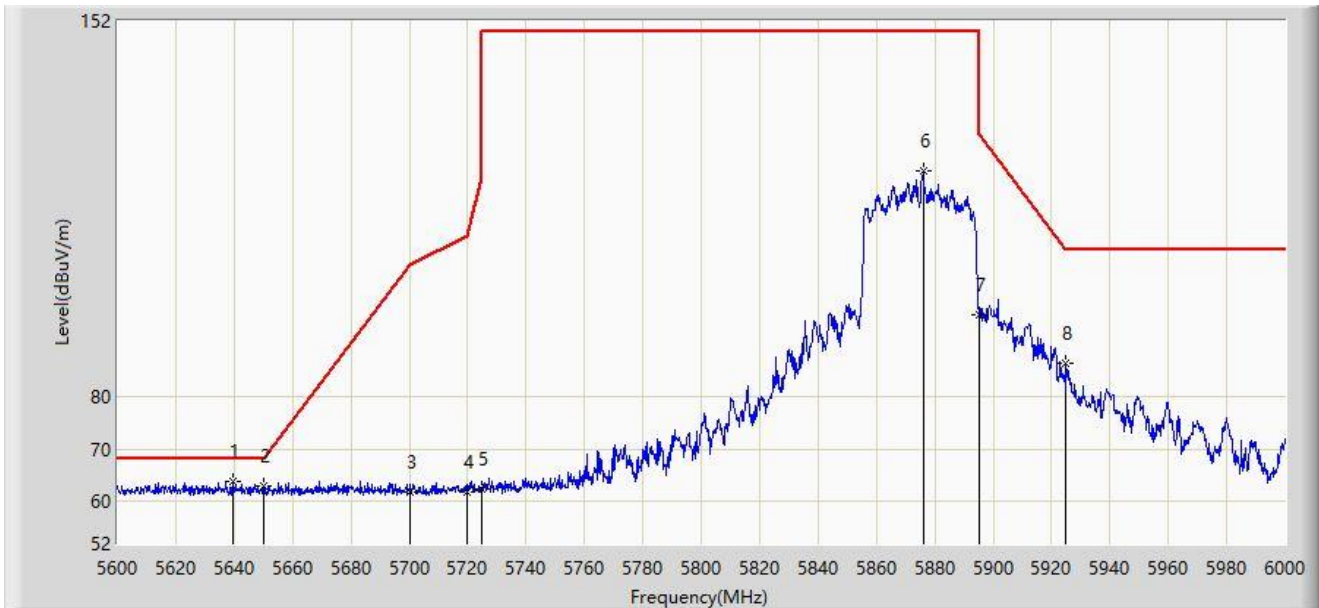
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at 5875MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5639.400	63.791	57.922	-4.409	68.200	5.869	PK
2		5650.000	62.966	57.120	-5.234	68.200	5.846	PK
3		5700.000	61.772	55.968	-43.428	105.200	5.804	PK
4		5720.000	61.989	56.118	-48.811	110.800	5.872	PK
5		5725.000	62.376	56.489	-59.824	122.200	5.887	PK
6		5876.000	123.161	116.974	N/A	N/A	6.186	PK
7		5895.000	95.650	89.331	-34.550	130.200	6.319	PK
8		5925.000	86.412	80.150	-21.788	108.200	6.262	PK

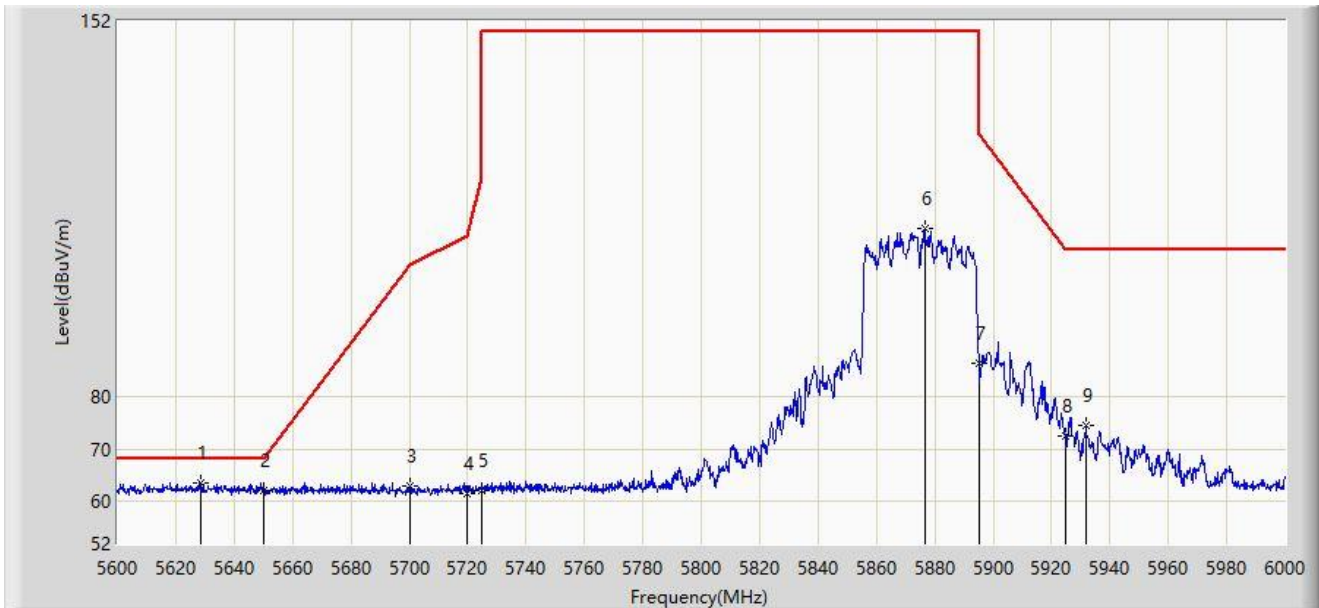
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE40 at 5875MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5628.600	63.557	57.687	-4.643	68.200	5.870	PK
2		5650.000	62.274	56.428	-5.926	68.200	5.846	PK
3		5700.000	62.886	57.082	-42.314	105.200	5.804	PK
4		5720.000	61.620	55.749	-49.180	110.800	5.872	PK
5		5725.000	62.126	56.239	-60.074	122.200	5.887	PK
6		5876.600	112.164	105.974	N/A	N/A	6.189	PK
7		5895.000	86.485	80.166	-43.715	130.200	6.319	PK
8		5925.000	72.501	66.239	-35.699	108.200	6.262	PK
9		5931.800	74.566	68.338	-33.634	108.200	6.228	PK

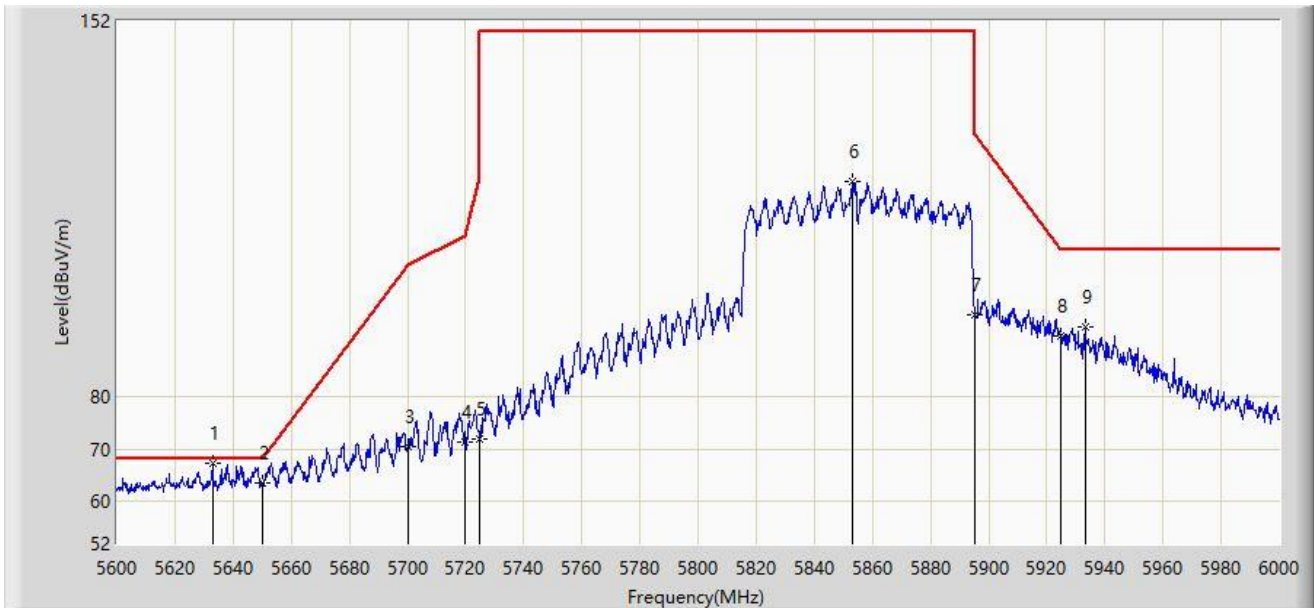
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at 5855MHz	



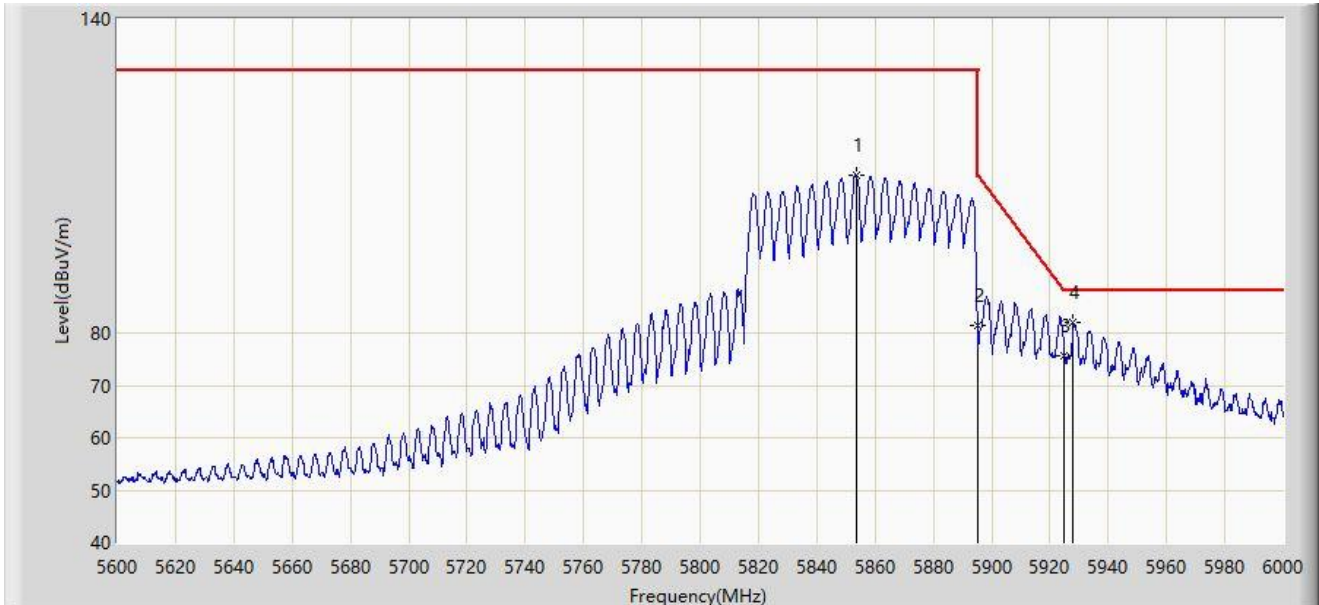
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	5633.000	67.415	61.546	-0.785	68.200	5.869	PK
2		5650.000	63.516	57.670	-4.684	68.200	5.846	PK
3		5700.000	70.684	64.880	-34.516	105.200	5.804	PK
4		5720.000	71.372	65.501	-39.428	110.800	5.872	PK
5		5725.000	71.952	66.065	-50.248	122.200	5.887	PK
6		5853.200	121.157	115.023	N/A	N/A	6.134	PK
7		5895.000	95.875	89.556	-34.325	130.200	6.319	PK
8		5925.000	91.730	85.468	-16.470	108.200	6.262	PK
9		5933.200	93.314	87.092	-14.886	108.200	6.222	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at 5855MHz	



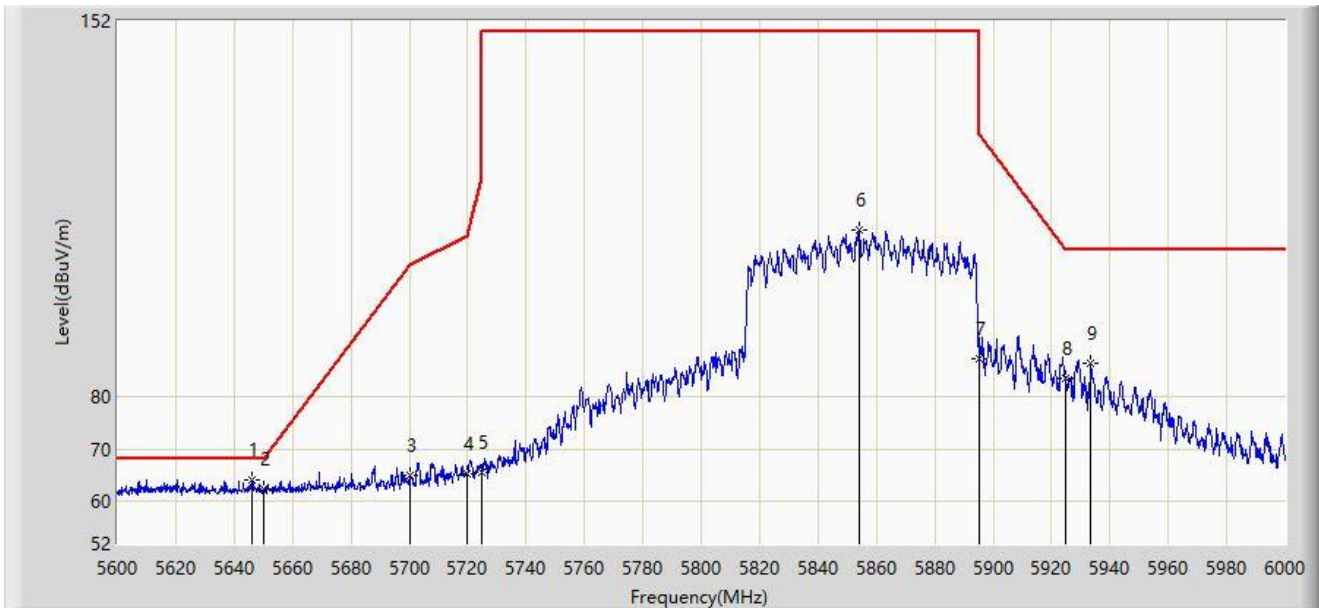
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		5853.600	110.083	103.950	N/A	N/A	6.133	AV
2		5895.000	81.472	75.153	-28.728	110.200	6.319	AV
3		5925.000	75.780	69.518	-12.420	88.200	6.262	AV
4	*	5928.000	82.084	75.838	-6.116	88.200	6.246	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE80 at 5855MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5646.200	64.054	58.198	-4.146	68.200	5.856	PK
2		5650.000	62.303	56.457	-5.897	68.200	5.846	PK
3		5700.000	64.967	59.163	-40.233	105.200	5.804	PK
4		5720.000	65.234	59.363	-45.566	110.800	5.872	PK
5		5725.000	65.730	59.843	-56.470	122.200	5.887	PK
6		5854.000	111.871	105.738	N/A	N/A	6.132	PK
7		5895.000	87.451	81.132	-42.749	130.200	6.319	PK
8		5925.000	83.473	77.211	-24.727	108.200	6.262	PK
9		5933.400	86.427	80.206	-21.773	108.200	6.221	PK

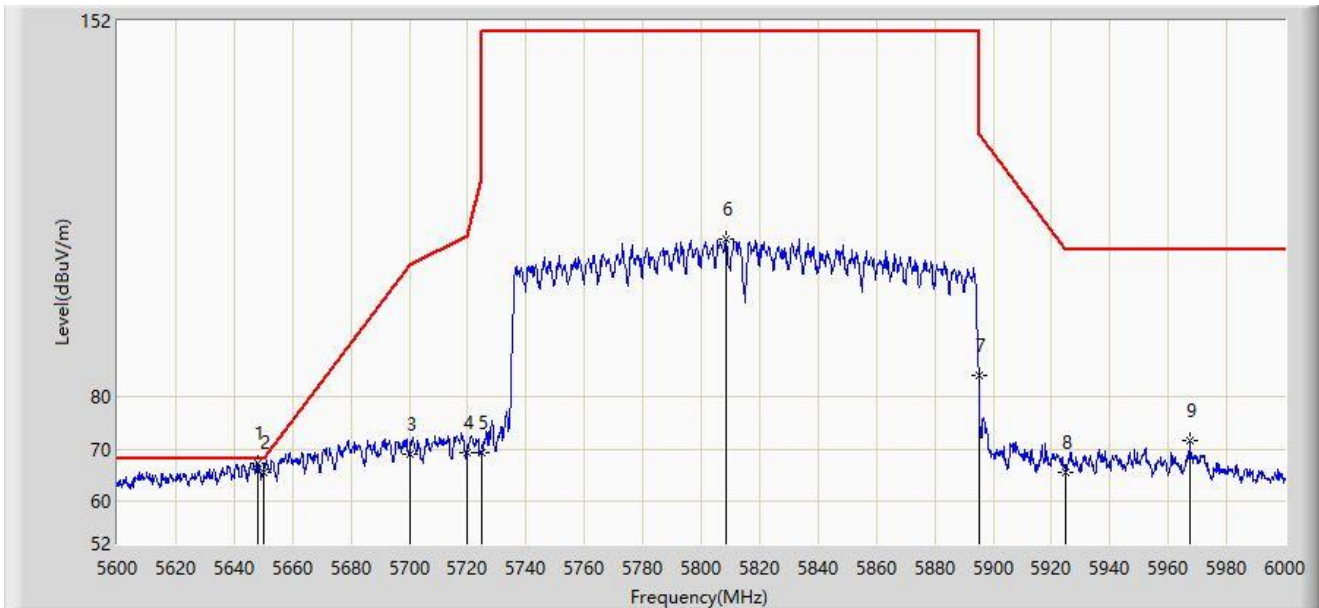
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE160 at 5815MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5648.200	67.450	61.599	-0.750	68.200	5.850	PK
2		5650.000	65.523	59.677	-2.677	68.200	5.846	PK
3		5700.000	69.069	63.265	-36.131	105.200	5.804	PK
4		5720.000	69.316	63.445	-41.484	110.800	5.872	PK
5		5725.000	69.346	63.459	-52.854	122.200	5.887	PK
6		5808.400	110.316	104.366	N/A	N/A	5.950	PK
7		5895.000	84.230	77.911	-45.970	130.200	6.319	PK
8		5925.000	65.592	59.330	-42.608	108.200	6.262	PK
9		5967.400	71.616	65.326	-36.584	108.200	6.290	PK

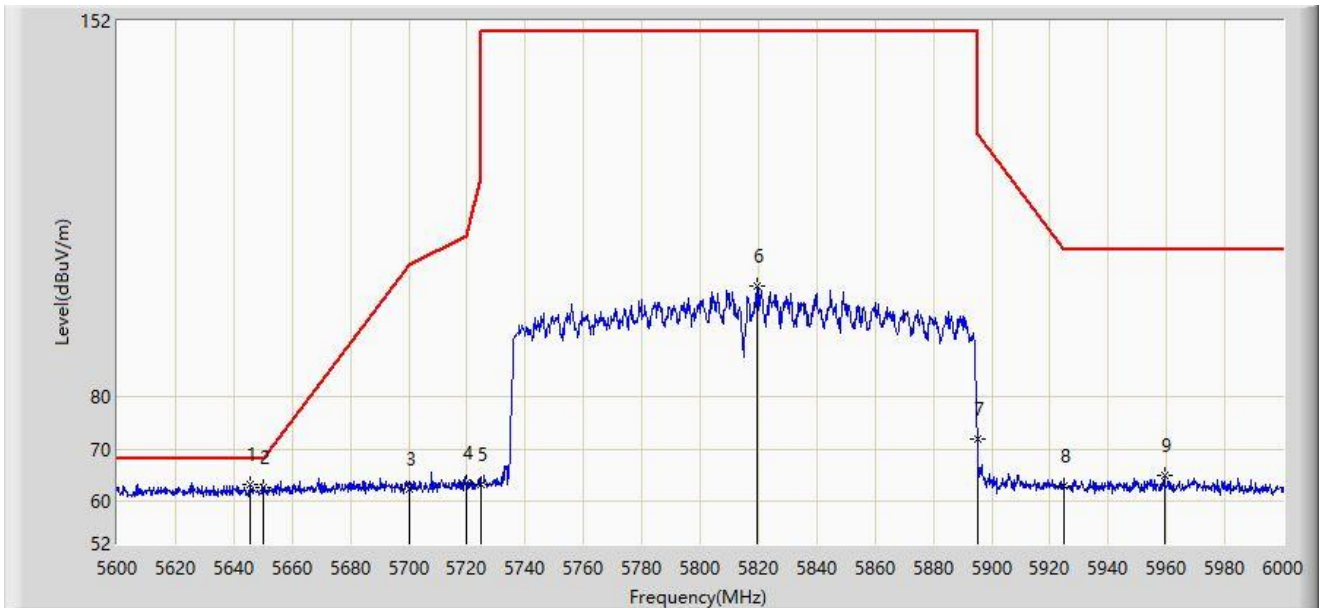
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

Site: SIP-AC1	Test Date: 2024/06/23 - 15:43
Limit: FCC_5.9G_RE(3m)	Engineer: Arvin Ding
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Keenetic Challenger SE	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ax-HE160 at 5815MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1	*	5645.400	63.352	57.494	-4.848	68.200	5.858	PK
2		5650.000	62.731	56.885	-5.469	68.200	5.846	PK
3		5700.000	62.292	56.488	-42.908	105.200	5.804	PK
4		5720.000	63.695	57.824	-47.105	110.800	5.872	PK
5		5725.000	63.206	57.319	-58.994	122.200	5.887	PK
6		5819.400	101.347	95.285	N/A	N/A	6.062	PK
7		5895.000	72.107	65.788	-58.093	130.200	6.319	PK
8		5925.000	63.155	56.893	-45.045	108.200	6.262	PK
9		5959.200	64.900	58.672	-43.300	108.200	6.228	PK

Note 1: " * ", means this data is the worst emission level.

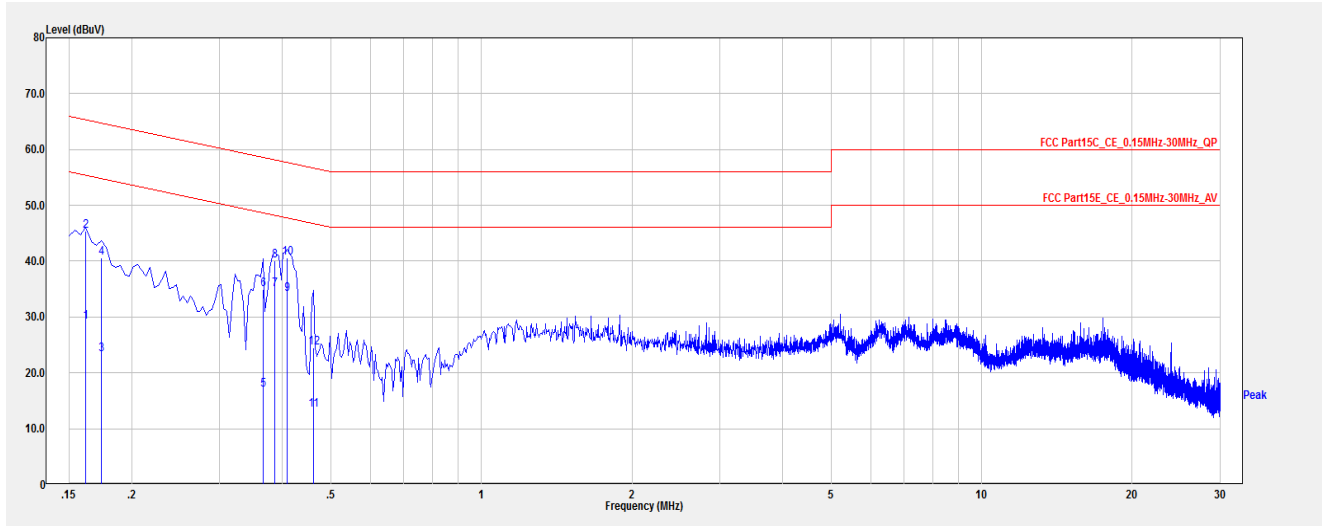
Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: For Band above 5895MHz, Average measurement was not performed when peak measurement level was lower than the 88.2dBuV/m limit.

A.9 AC Conducted Emissions Test Result

EUT	Keenetic Challenger SE	Date of Test	2024-06-24
Factor	SIP-SR2-ENV216_101684_E	Temp. / Humidity	26.8°C/64.7%
Polarity	Line	Site / Test Engineer	SIP-SR2 / Arvin Ding
Test Mode	Transmit by 802.11ax-HE80 at 5855MHz	Test Voltage	120V/60Hz

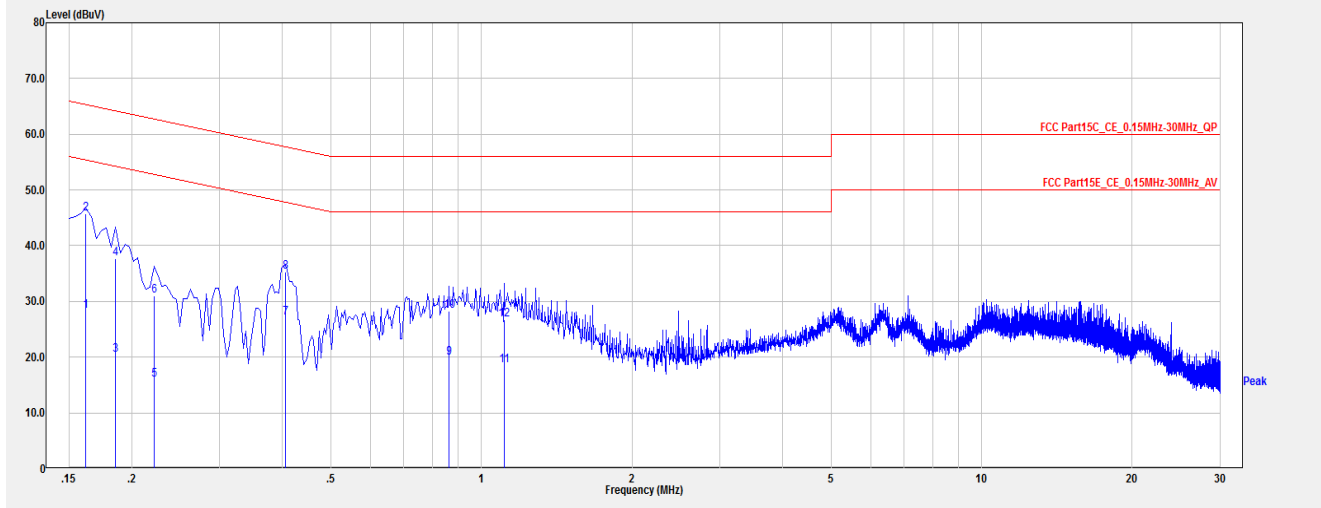


No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		0.162	19.36	9.73	29.09	-26.27	55.36	Average
2		0.162	35.70	9.73	45.43	-19.93	65.36	QP
3		0.174	13.58	9.73	23.31	-31.45	54.77	Average
4		0.174	30.88	9.73	40.61	-24.15	64.77	QP
5		0.366	7.11	9.81	16.92	-31.67	48.59	Average
6		0.366	25.09	9.81	34.90	-23.69	58.59	QP
7	*	0.386	25.19	9.82	35.01	-13.14	48.15	Average
8		0.386	30.34	9.82	40.16	-17.99	58.15	QP
9		0.410	24.35	9.82	34.17	-13.48	47.65	Average
10		0.410	30.82	9.82	40.64	-17.01	57.65	QP
11		0.462	3.52	9.83	13.35	-33.31	46.66	Average
12		0.462	14.73	9.83	24.56	-32.10	56.66	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

EUT	Keenetic Challenger SE	Date of Test	2024-06-24
Factor	SIP-SR2-ENV216_101684_E	Temp. / Humidity	26.8°C/64.7%
Polarity	Neutral	Site / Test Engineer	SIP-SR2 / Arvin Ding
Test Mode	Transmit by 802.11ax-HE80 at 5855MHz	Test Voltage	120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Remark (QP/PK/AV)
1		0.162	18.50	9.71	28.22	-27.14	55.36	Average
2	*	0.162	35.98	9.71	45.69	-19.67	65.36	QP
3		0.186	10.65	9.73	20.38	-33.84	54.21	Average
4		0.186	27.95	9.73	37.68	-26.54	64.21	QP
5		0.222	6.21	9.77	15.98	-36.76	52.74	Average
6		0.222	21.19	9.77	30.96	-31.79	62.74	QP
7		0.406	17.19	9.81	27.00	-20.73	47.73	Average
8		0.406	25.51	9.81	35.32	-22.41	57.73	QP
9		0.862	10.09	9.84	19.93	-26.07	46.00	Average
10		0.862	18.38	9.84	28.22	-27.78	56.00	QP
11		1.110	8.63	9.85	18.48	-27.52	46.00	Average
12		1.110	16.79	9.85	26.64	-29.36	56.00	QP

Note:

- "*", means this data is the worst emission level.
- C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
- Measurement(dBuV/m) = Reading(dBuV) + C.F (Correction Factor).

Appendix B – Test Setup Photograph

Refer to “2403RSU044-UT” file.

Appendix C – EUT Photograph

Refer to “2403RSU044-UE” file.

The End
