

Product	SUBSCRIBER END EQUIPMENT HGW	Test Engineer	Buter Shi
Test Site	AC1	Test Date	2020/08/19
Test Mode	802.11ac-VHT20 (CDD mode)	Test Channel	165
Remark	3. Average measurement was not performed if peak level lower than average limit. 4. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	10239.5	35.7	15.7	51.4	68.2	-16.8	Peak	Horizontal
	11650.0	34.8	15.3	50.1	54.0	-3.9	Average	Horizontal
	11650.0	44.3	15.3	59.6	74.0	-14.4	Peak	Horizontal
	15654.0	36.5	15.2	51.7	74.0	-22.3	Peak	Horizontal
*	17481.5	38.4	19.3	57.7	68.2	-10.5	Peak	Horizontal
*	10214.0	34.0	15.3	49.3	68.2	-18.9	Peak	Vertical
	11648.3	44.1	15.3	59.4	74.0	-14.6	Peak	Vertical
	11648.3	37.6	15.3	52.9	54.0	-1.1	Average	Vertical
	15645.5	35.6	15.2	50.8	74.0	-23.2	Peak	Vertical
*	17473.0	37.9	19.5	57.4	68.2	-10.8	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	SUBSCRIBER END EQUIPMENT HGW	Test Engineer	Buter Shi
Test Site	AC1	Test Date	2020/08/19
Test Mode	802.11ac-VHT40 (CDD mode)	Test Channel	38
Remark	3. Average measurement was not performed if peak level lower than average limit. 4. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	10197.0	35.7	15.8	51.5	68.2	-16.7	Peak	Horizontal
	12050.0	36.4	15.3	51.7	74.0	-22.3	Peak	Horizontal
	16011.0	35.4	15.1	50.5	74.0	-23.5	Peak	Horizontal
*	16640.0	35.5	17.4	52.9	68.2	-15.3	Peak	Horizontal
*	10375.5	40.7	15.7	56.4	68.2	-11.8	Peak	Vertical
	12050.0	36.4	15.3	51.7	74.0	-22.3	Peak	Vertical
	15654.0	35.6	15.2	50.8	74.0	-23.2	Peak	Vertical
*	16589.0	35.9	17.1	53.0	68.2	-15.2	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	SUBSCRIBER END EQUIPMENT HGW	Test Engineer	Buter Shi
Test Site	AC1	Test Date	2020/08/19
Test Mode	802.11ac-VHT40 (CDD mode)	Test Channel	46
Remark	3. Average measurement was not performed if peak level lower than average limit. 4. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	10460.5	45.0	15.9	60.9	68.2	-7.3	Peak	Horizontal
	11965.0	34.9	15.1	50.0	74.0	-24.0	Peak	Horizontal
	15689.3	43.8	15.0	58.8	74.0	-15.2	Peak	Horizontal
	15689.3	35.1	15.0	50.1	54.0	-3.9	Average	Horizontal
*	16648.5	33.8	17.3	51.1	68.2	-17.1	Peak	Horizontal
*	10460.5	49.4	15.9	65.3	68.2	-2.9	Peak	Vertical
	10877.0	34.4	16.8	51.2	74.0	-22.8	Peak	Vertical
	15691.5	36.5	15.0	51.5	54.0	-2.5	Average	Vertical
	15691.5	47.2	15.0	62.2	74.0	-11.8	Peak	Vertical
*	16716.5	35.4	18.0	53.4	68.2	-14.8	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	SUBSCRIBER END EQUIPMENT HGW	Test Engineer	Buter Shi
Test Site	AC1	Test Date	2020/08/19
Test Mode	802.11ac-VHT40 (CDD mode)	Test Channel	151
Remark	3. Average measurement was not performed if peak level lower than average limit. 4. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	10316.0	35.6	15.8	51.4	68.2	-16.8	Peak	Horizontal
	11512.6	42.7	15.9	58.6	74.0	-15.4	Peak	Horizontal
	11512.6	35.2	15.9	51.1	54.0	-2.9	Average	Horizontal
	15705.0	35.1	14.9	50.0	74.0	-24.0	Peak	Horizontal
*	17269.0	39.8	17.3	57.1	68.2	-11.1	Peak	Horizontal
*	9755.0	36.3	15.3	51.6	68.2	-16.6	Peak	Vertical
	11511.4	45.7	15.9	61.6	74.0	-12.4	Peak	Vertical
	11511.4	35.2	15.9	51.1	54.0	-2.9	Average	Vertical
	15781.5	34.3	14.5	48.8	74.0	-25.2	Peak	Vertical
*	17260.5	45.7	17.3	63.0	68.2	-5.2	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	SUBSCRIBER END EQUIPMENT HGW	Test Engineer	Buter Shi
Test Site	AC1	Test Date	2020/08/19
Test Mode	802.11ac-VHT40 (CDD mode)	Test Channel	159
Remark	3. Average measurement was not performed if peak level lower than average limit. 4. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9797.5	35.7	15.2	50.9	68.2	-17.3	Peak	Horizontal
	11590.8	34.0	15.6	49.6	54.0	-4.4	Average	Horizontal
	11590.8	38.0	15.6	53.6	74.0	-20.4	Peak	Horizontal
	15645.5	35.3	15.2	50.5	74.0	-23.5	Peak	Horizontal
*	17379.5	39.2	18.6	57.8	68.2	-10.4	Peak	Horizontal
*	10078.0	33.3	15.1	48.4	68.2	-19.8	Peak	Vertical
	11590.7	34.2	15.6	49.8	54.0	-4.2	Average	Vertical
	11590.7	44.2	15.6	59.8	74.0	-14.2	Peak	Vertical
	15526.5	35.6	15.1	50.7	74.0	-23.3	Peak	Vertical
*	17388.0	40.9	18.8	59.7	68.2	-8.5	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	SUBSCRIBER END EQUIPMENT HGW	Test Engineer	Buter Shi
Test Site	AC1	Test Date	2020/08/19
Test Mode	802.11ac-VHT80(CDD mode)	Test Channel	42
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 show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	9644.5	34.4	14.4	48.8	68.2	-19.4	Peak	Horizontal
	11276.5	35.6	15.8	51.4	74.0	-22.6	Peak	Horizontal
	15756.0	34.4	14.9	49.3	74.0	-24.7	Peak	Horizontal
*	17269.0	32.8	17.3	50.1	68.2	-18.1	Peak	Horizontal
*	10418.0	39.5	16.1	55.6	68.2	-12.6	Peak	Vertical
	11489.0	35.8	16.3	52.1	74.0	-21.9	Peak	Vertical
	15645.5	34.6	15.2	49.8	74.0	-24.2	Peak	Vertical
*	16589.0	34.3	17.1	51.4	68.2	-16.8	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	SUBSCRIBER END EQUIPMENT HGW	Test Engineer	Buter Shi
Test Site	AC1	Test Date	2020/08/19
Test Mode	802.11ac-VHT80 (CDD mode)	Test Channel	155
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 show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	10035.5	35.7	15.4	51.1	68.2	-17.1	Peak	Horizontal
	11540.0	37.1	15.8	52.9	74.0	-21.1	Peak	Horizontal
	15713.5	36.4	14.7	51.1	74.0	-22.9	Peak	Horizontal
*	17022.5	33.4	18.4	51.8	68.2	-16.4	Peak	Horizontal
*	9814.5	35.0	15.3	50.3	68.2	-17.9	Peak	Vertical
	11327.5	34.6	15.7	50.3	74.0	-23.7	Peak	Vertical
	15662.5	35.0	15.0	50.0	74.0	-24.0	Peak	Vertical
*	16521.0	35.1	16.0	51.1	68.2	-17.1	Peak	Vertical

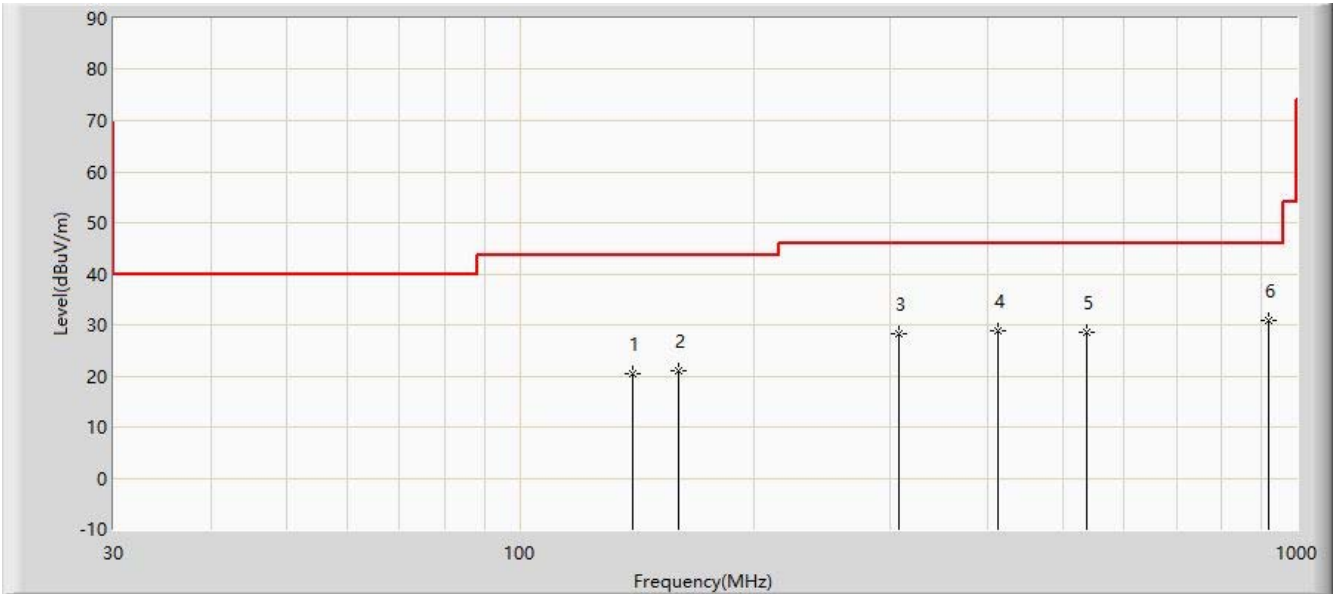
Note 1: "\*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dB $\mu$ V/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

**The Rs Case of Radiated Emission below 1GHz:**

Site: AC1	Time: 2020/09/01 - 15:19
Limit: FCC_Part15.209_RSE(3m)	Engineer: Dillon Diao
Probe: AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
<b>Test Mode:</b> Transmit by 802.11a at channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			139.610	20.318	6.531	-23.182	43.500	13.787	PK
2			159.980	21.065	6.633	-22.435	43.500	14.432	PK
3			307.905	28.290	13.222	-17.710	46.000	15.068	PK
4			411.695	28.742	11.290	-17.258	46.000	17.451	PK
5			536.340	28.526	8.330	-17.474	46.000	20.196	PK
6		*	920.460	30.943	4.627	-15.057	46.000	26.316	PK

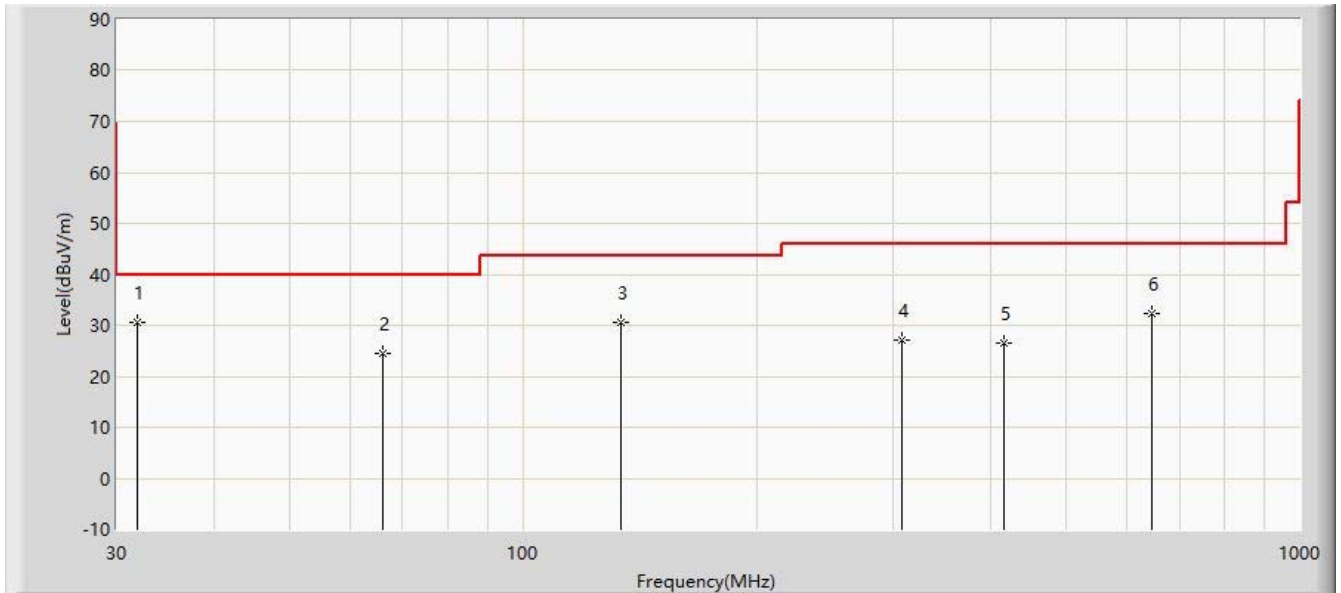
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz ~ 30MHz, 18GHz to 25GHz) 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: AC1	Time: 2020/09/01 - 15:19
Limit: FCC_Part15.209_RSE(3m)	Engineer: Dillon Diao
Probe: AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
<b>Test Mode:</b> Transmit by 802.11a at channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	31.940	30.623	17.665	-9.377	40.000	12.958	PK
2			65.890	24.540	11.392	-15.460	40.000	13.148	PK
3			133.790	30.583	17.316	-12.917	43.500	13.267	PK
4			307.905	27.238	12.170	-18.762	46.000	15.068	PK
5			416.060	26.403	8.851	-19.597	46.000	17.552	PK
6			644.980	32.458	9.895	-13.542	46.000	22.563	PK

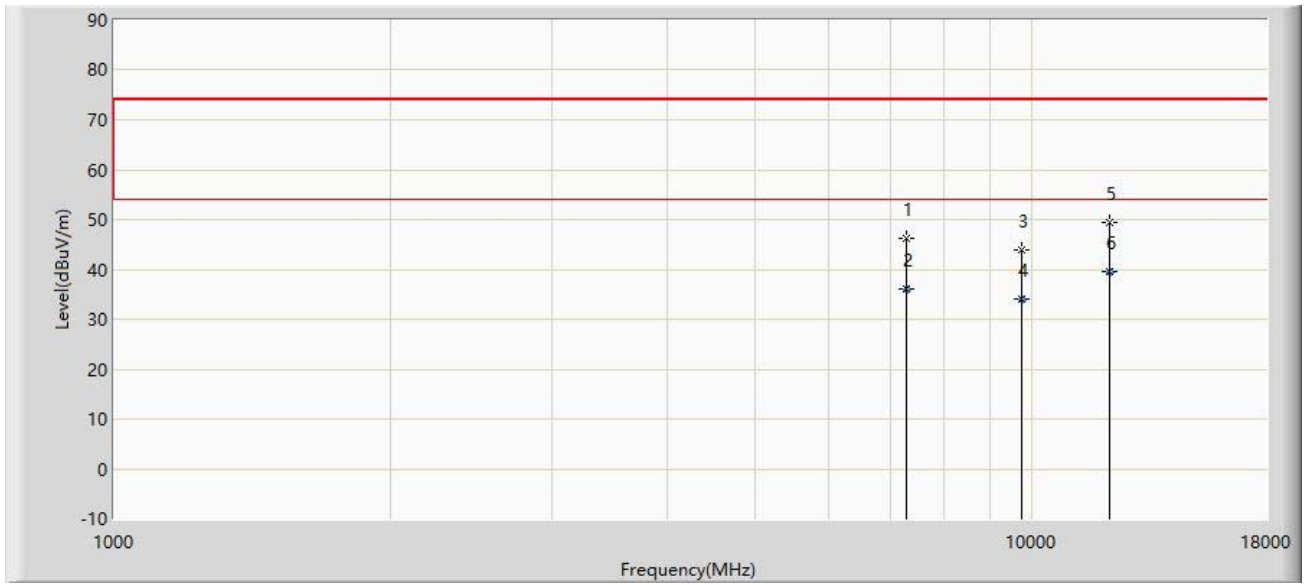
Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of radiated emissions (frequency range from 9kHz ~ 30MHz, 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.

**Test Result of Radiated Emissions for Co-location**

Test Mode:	Wi-Fi 2.4GHz + Wi-Fi 5G Transmit	Test Site:	AC2
Test Engineer:	Hyde Yu	Polarity:	Horizontal
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		

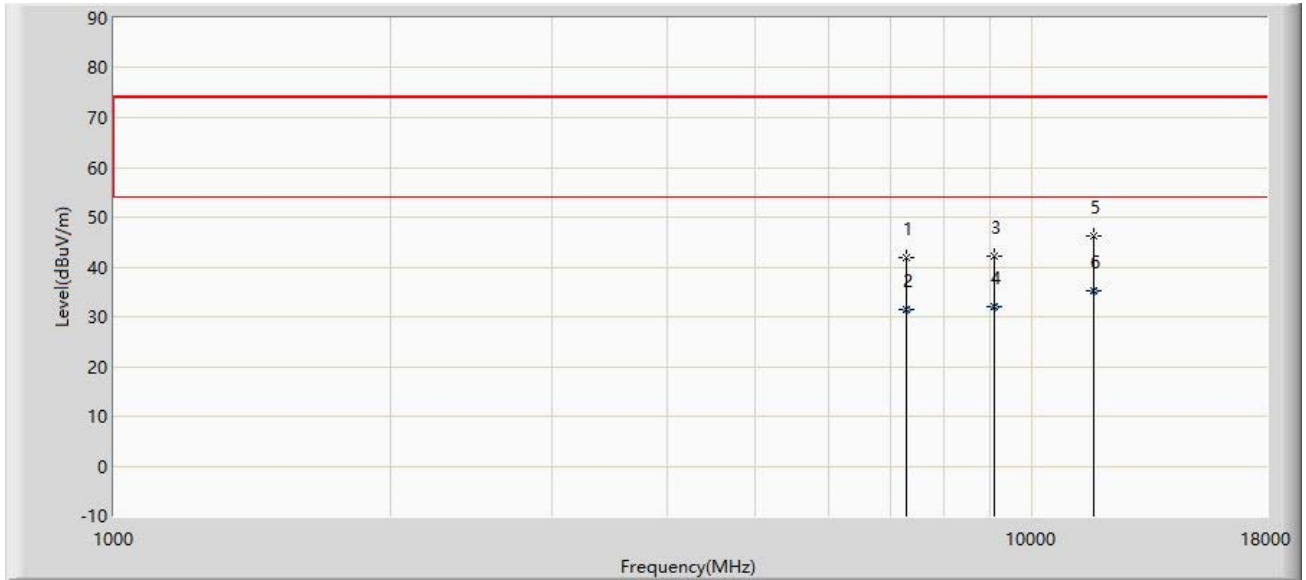


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor	Type
1			7307.000	46.246	38.156	-27.754	74.000	8.091	PK
2			7307.000	36.220	28.130	-17.780	54.000	8.091	AV
3			9746.500	43.964	33.194	-30.036	74.000	10.771	PK
4			9746.500	33.920	23.150	-20.080	54.000	10.771	AV
5			12135.000	49.336	33.143	-24.664	74.000	16.193	PK
6		*	12135.000	39.643	23.450	-14.357	54.000	16.193	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Test Mode:	Wi-Fi 2.4GHz + Wi-Fi 5G Transmit	Test Site:	AC2
Test Engineer:	Hyde Yu	Polarity:	Vertical
Remark:	There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor	Type
1			7307.000	41.842	33.752	-32.158	74.000	8.091	PK
2			7307.000	31.550	23.460	-22.450	54.000	8.091	AV
3			9109.000	42.088	31.377	-31.912	74.000	10.711	PK
4			9109.000	32.171	21.460	-21.829	54.000	10.711	AV
5			11676.000	46.098	29.911	-27.902	74.000	16.187	PK
6		*	11676.000	35.337	19.150	-18.663	54.000	16.187	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

## 6.9. Radiated Restricted Band Edge Measurement

### 6.9.1. Test Limit

#### **For 15.205 Requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42-16.423	399.9 - 410	4.5-5.15
<sup>1</sup> 0.495 - 0.505	16.69475-16.69525	608 - 614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960 - 1240	7.25-7.75
4.125-4.128	25.5 -25.67	1300 - 1427	8.025 - 8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660 - 1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123 - 138	2200 - 2300	14.47-14.5
8.291-8.294	149.9-150.05	2310–2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5 - 2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690 - 2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260 - 3267	23.6-24.0
12.29-12.293	167.72-173.2	3332 - 3339	31.2-31.8
12.51975-12.52025	240 - 285	3345.8 - 3358	36.43-36.5
12.57675-12.57725	322-335.4	3600 - 4400	( <sup>2</sup> )
13.36-13.41	--	--	--

#### **For 15.407(b) Requirement:**

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.

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.

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.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range

from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Field Strength (µV/m)	Measured Distance (m)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

**6.9.2. Test Procedure Used**

KDB 789033 D02v02r01- Section G

### **6.9.3. Test Setting**

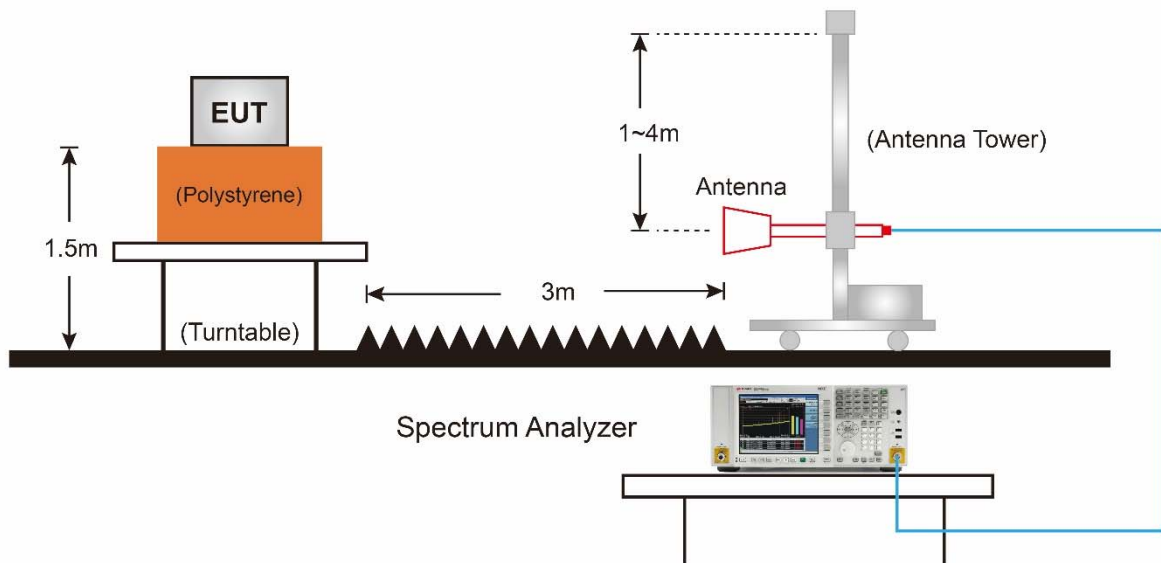
#### **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

#### **Average Measurements above 1GHz (Method VB)**

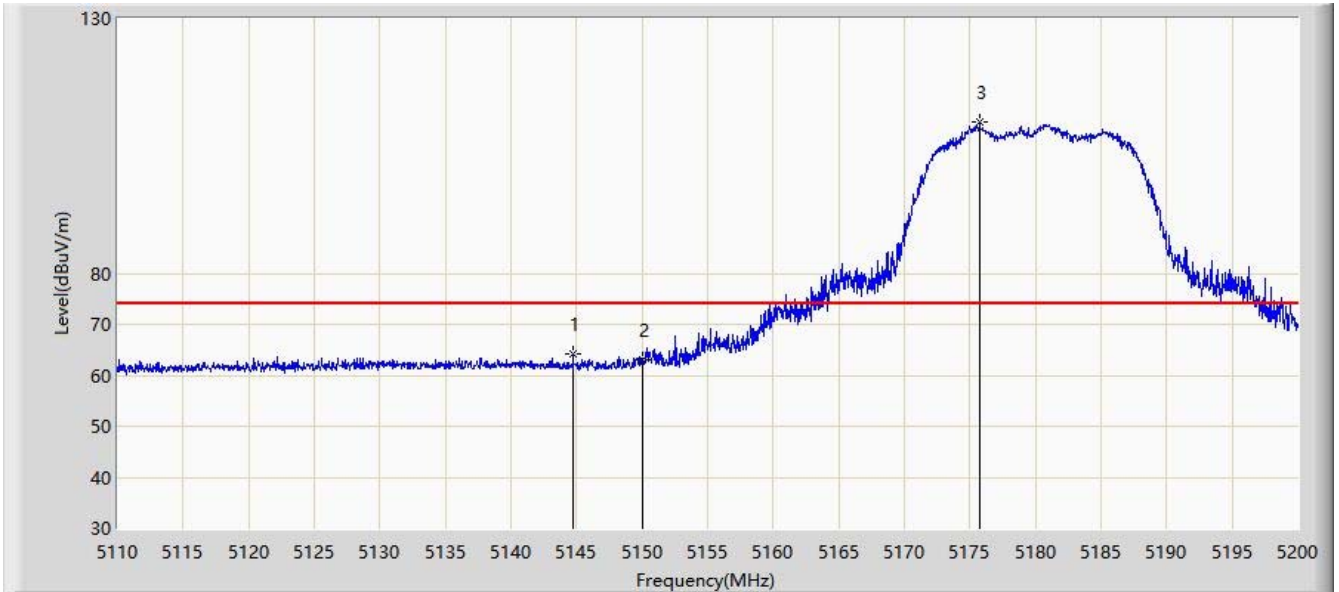
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10Hz
4. If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

### 6.9.4. Test Setup



### 6.9.5. Test Result

Site: AC1	Time: 2020/08/07 - 04:19
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5180MHz (CDD mode)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5144.740	64.075	57.564	-9.925	74.000	6.512	PK
2			5150.000	63.160	56.708	-10.840	74.000	6.452	PK
3		*	5175.745	109.577	103.091	N/A	N/A	6.486	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Site: AC1	Time: 2020/08/07 - 04:21
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5180MHz (CDD mode)	

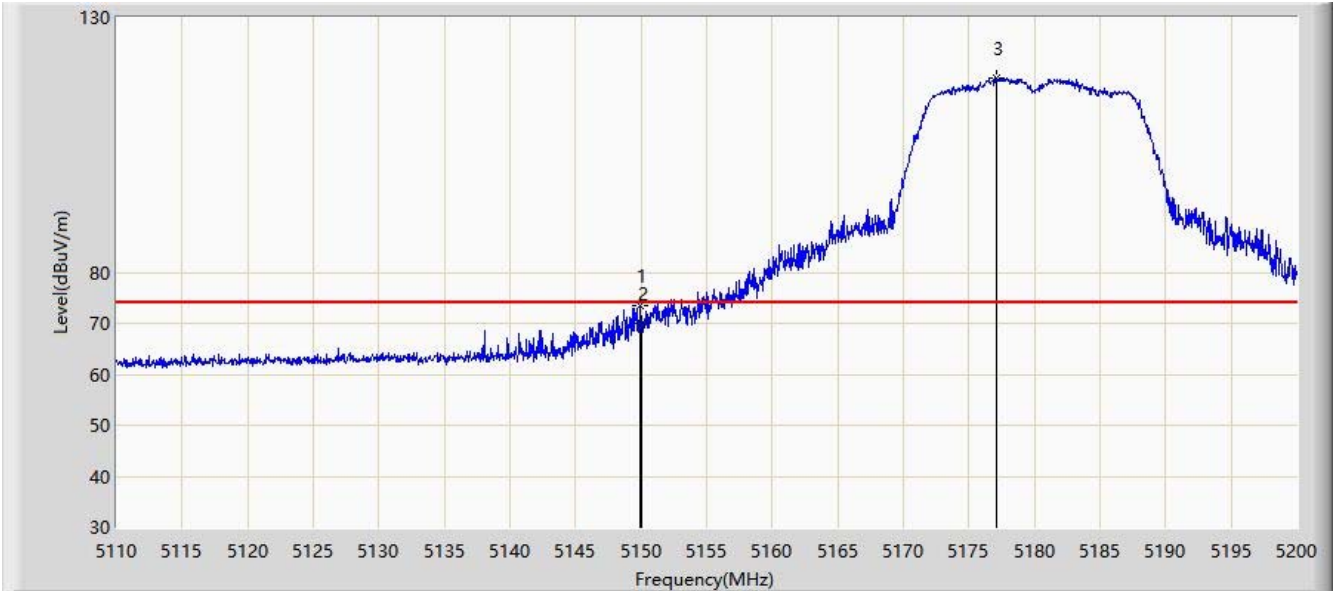


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.690	44.238	-3.310	54.000	6.452	AV
2		*	5180.515	100.103	93.585	N/A	N/A	6.519	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 04:17
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5180MHz (CDD mode)	

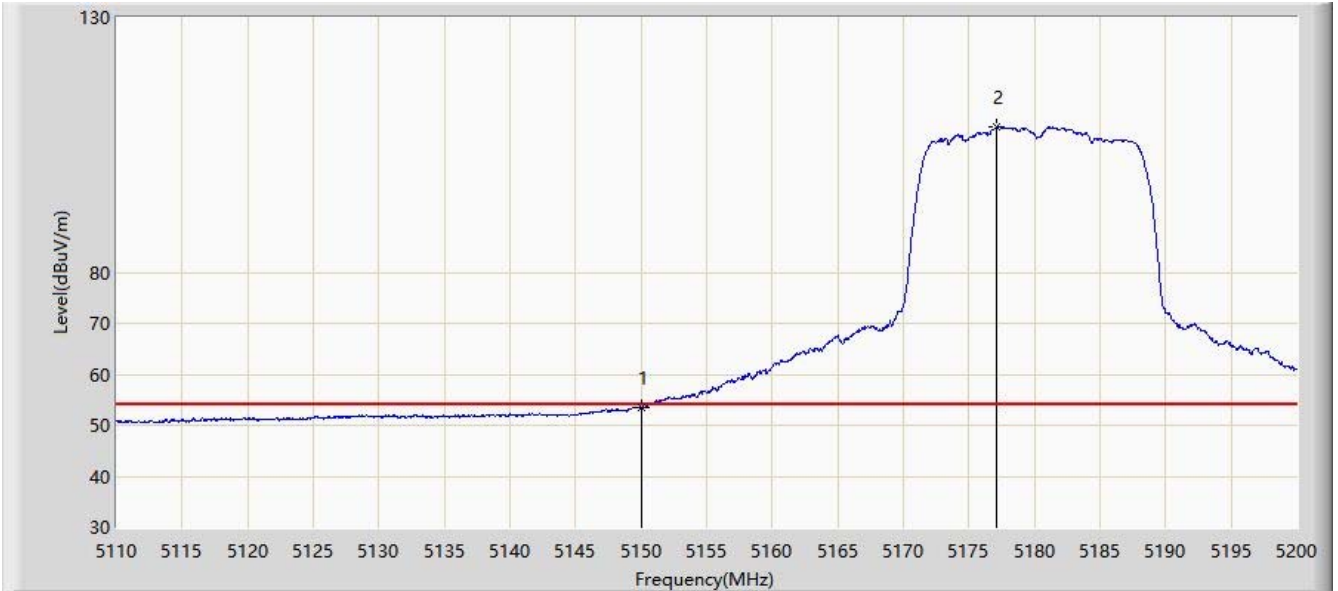


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.915	73.467	67.015	-0.533	74.000	6.451	PK
2			5150.000	69.892	63.440	-4.108	74.000	6.452	PK
3		*	5177.095	118.132	111.637	N/A	N/A	6.495	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 04:16
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5180MHz (CDD mode)	

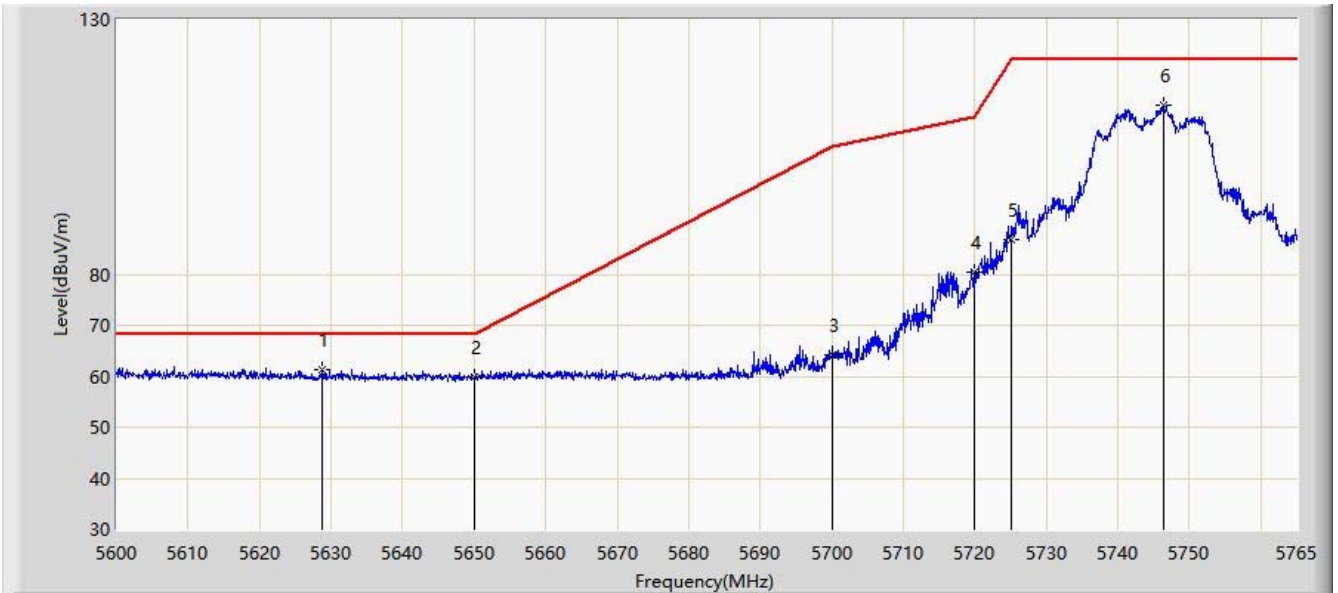


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.486	47.034	-0.514	54.000	6.452	AV
2	X	*	5177.050	108.462	101.967	N/A	N/A	6.495	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 22:23
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5745MHz (CDD mode)	

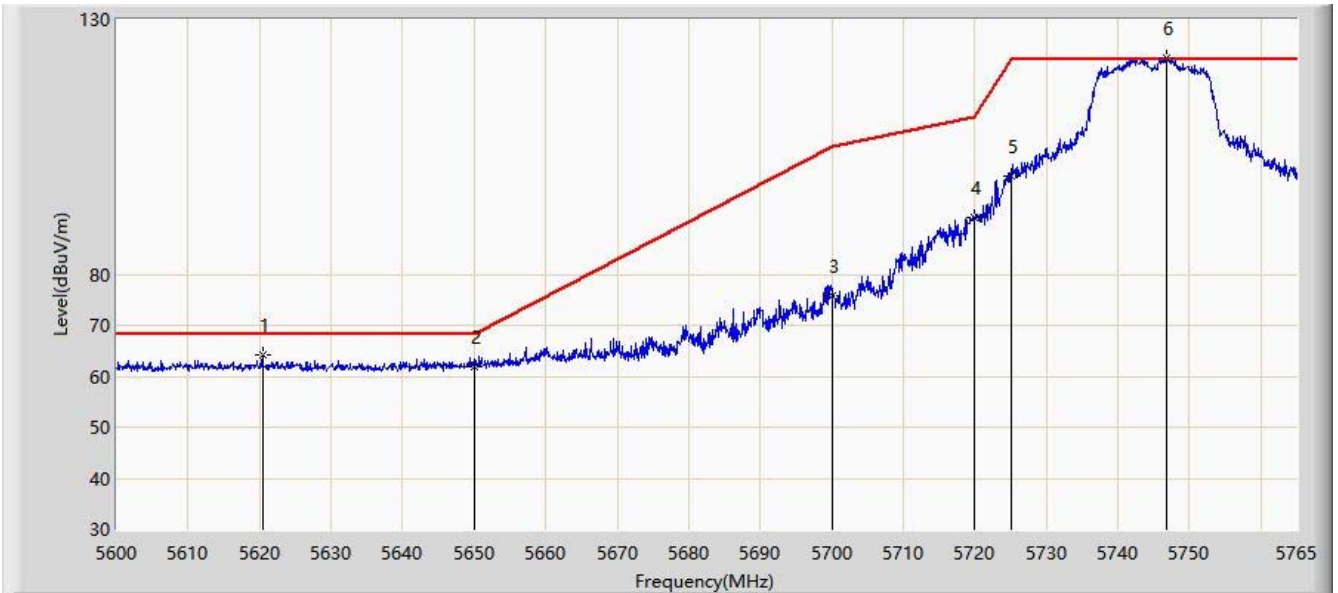


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5628.710	61.240	55.077	-6.960	68.200	6.163	PK
2			5650.000	59.814	53.555	-8.386	68.200	6.258	PK
3			5700.000	64.270	57.845	-40.930	105.200	6.426	PK
4			5720.000	80.455	74.070	-30.345	110.800	6.386	PK
5			5725.000	86.757	80.333	-35.443	122.200	6.424	PK
6			5746.437	113.077	106.303	N/A	N/A	6.774	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 22:20
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5745MHz (CDD mode)	

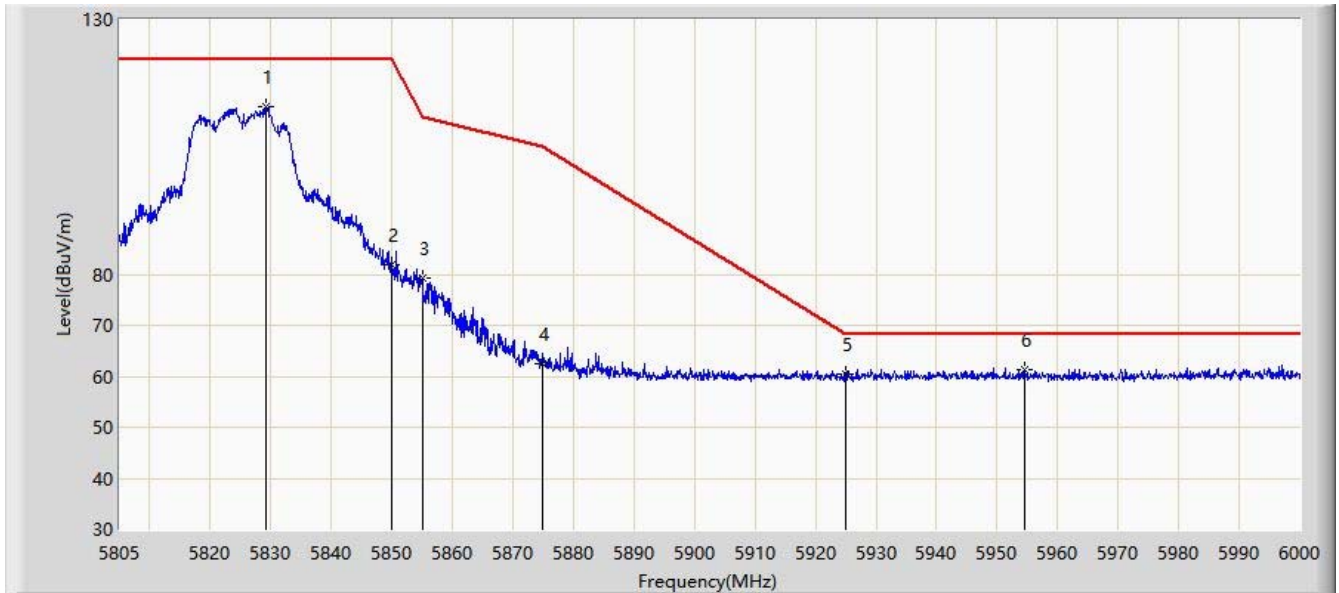


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5620.377	64.203	57.818	-3.997	68.200	6.384	PK
2			5650.000	61.951	55.692	-6.249	68.200	6.258	PK
3			5700.000	75.740	69.315	-29.460	105.200	6.426	PK
4			5720.000	91.228	84.843	-19.572	110.800	6.386	PK
5			5725.000	99.306	92.882	-22.894	122.200	6.424	PK
6		*	5746.850	122.403	115.626	N/A	N/A	6.777	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 22:30
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5825MHz (CDD mode)	

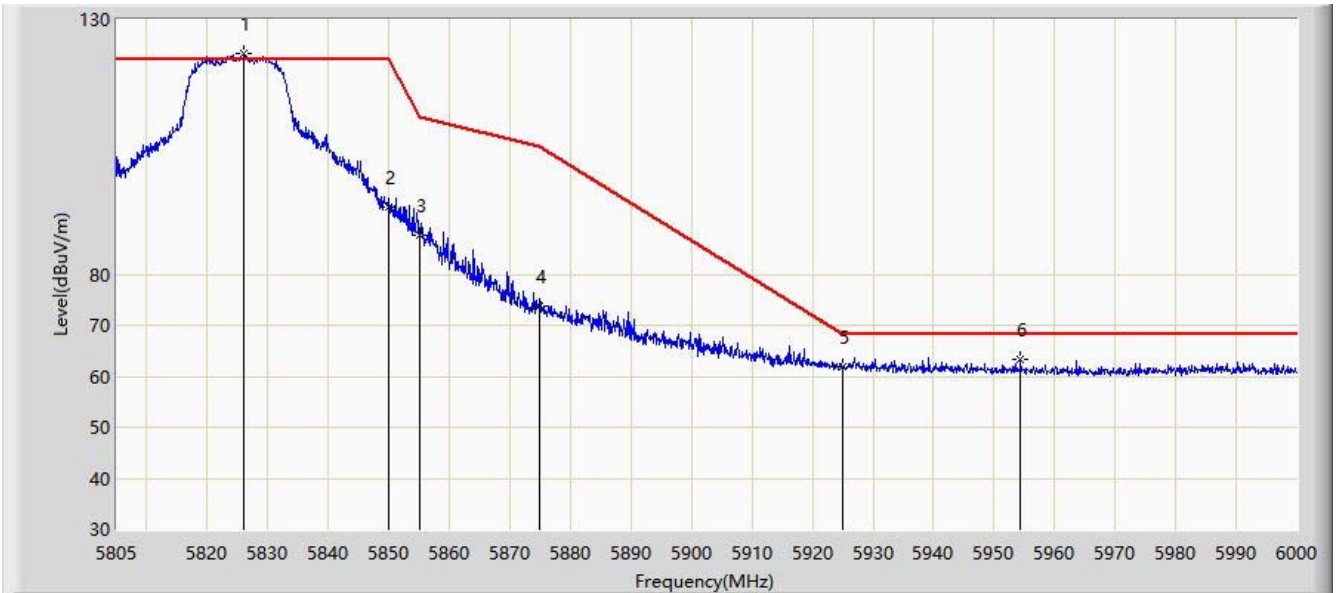


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5829.083	112.799	105.717	N/A	N/A	7.082	PK
2			5850.000	81.781	74.973	-40.419	122.200	6.808	PK
3			5855.000	79.172	72.352	-31.628	110.800	6.820	PK
4			5875.000	62.440	55.522	-42.760	105.200	6.918	PK
5			5925.000	60.496	53.399	-7.704	68.200	7.097	PK
6		*	5954.467	61.231	54.194	-6.969	68.200	7.038	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 22:26
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at channel 5825MHz (CDD mode)	

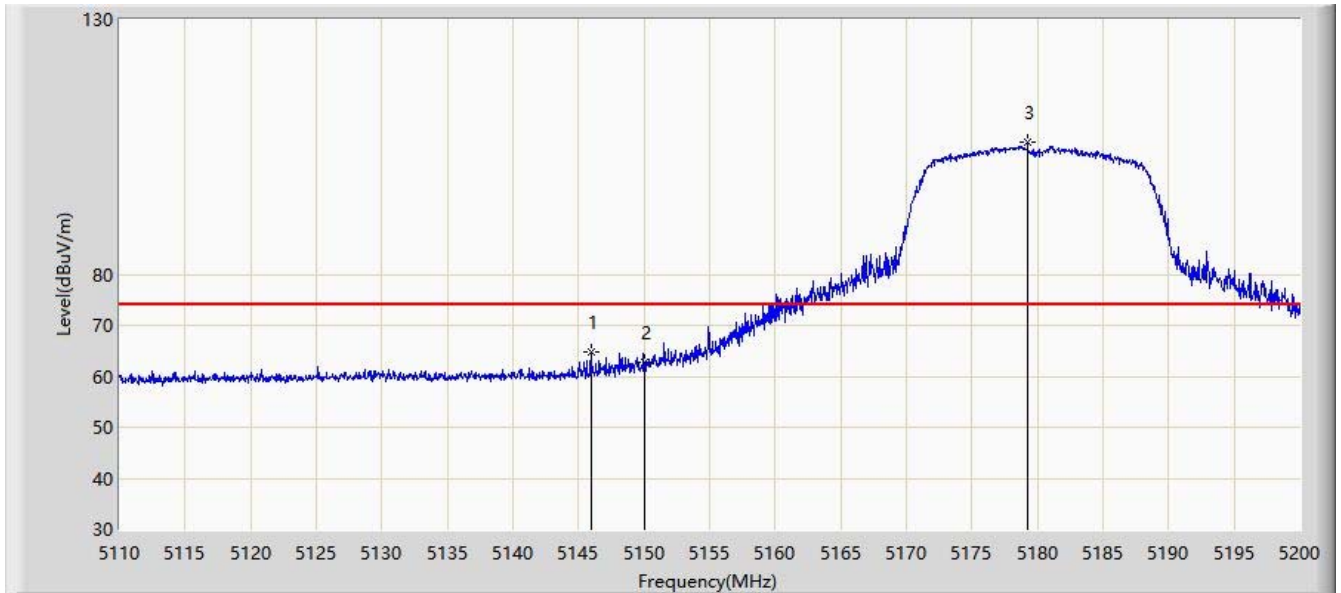


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5825.962	123.444	116.391	N/A	N/A	7.054	PK
2			5850.000	93.276	86.468	-28.924	122.200	6.808	PK
3			5855.000	87.593	80.773	-23.207	110.800	6.820	PK
4			5875.000	73.669	66.751	-31.531	105.200	6.918	PK
5			5925.000	61.806	54.709	-6.394	68.200	7.097	PK
6			5954.370	63.385	56.347	-4.815	68.200	7.038	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 23:04
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 5180MHz (CDD mode)	



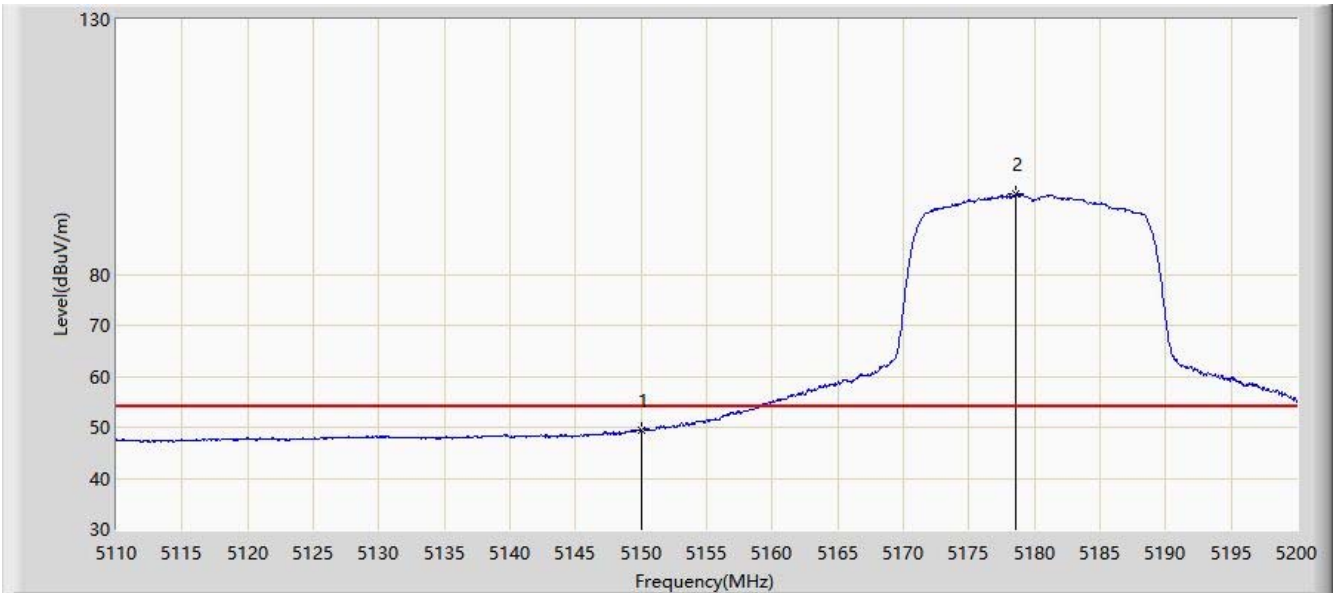
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5145.955	64.704	58.214	-9.296	74.000	6.490	PK
2			5150.000	62.680	56.228	-11.320	74.000	6.452	PK
3		*	5179.255	105.945	99.435	N/A	N/A	6.510	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Site: AC1	Time: 2020/08/07 - 23:06
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 5180MHz (CDD mode)	

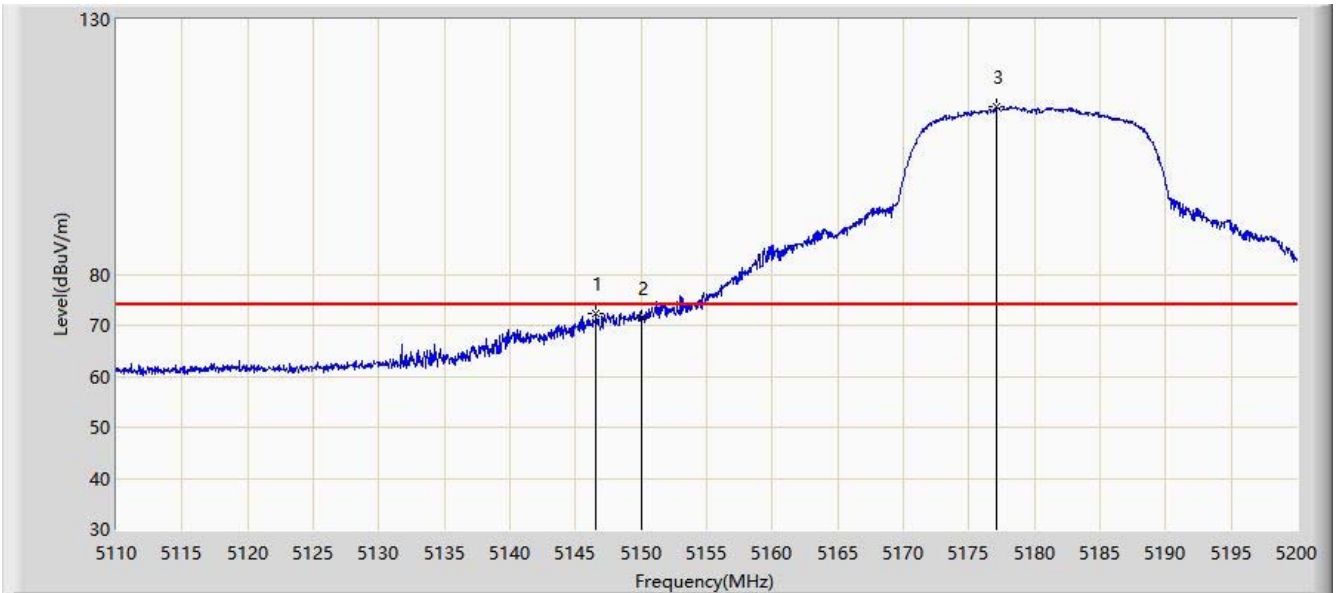


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	49.357	42.905	-4.643	54.000	6.452	AV
2		*	5178.625	95.725	89.219	N/A	N/A	6.506	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 23:00
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 5180MHz (CDD mode)	

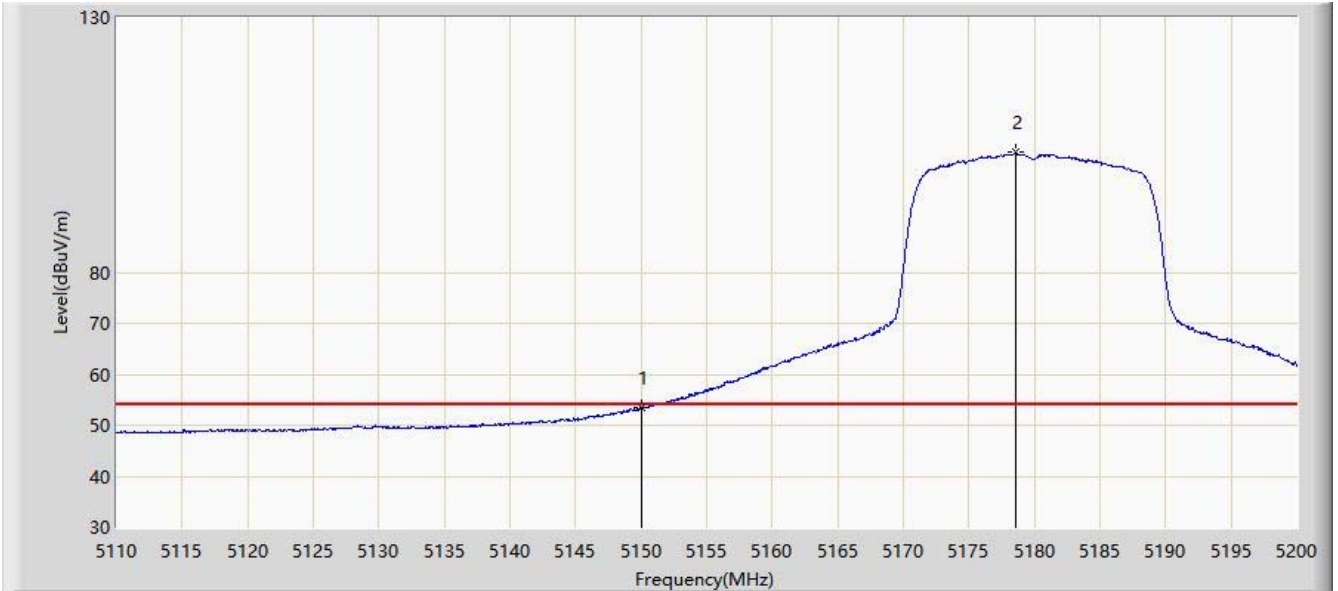


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5146.585	72.204	65.725	-1.796	74.000	6.479	PK
2			5150.000	71.309	64.857	-2.691	74.000	6.452	PK
3		*	5177.050	112.764	106.269	N/A	N/A	6.495	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 22:59
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 5180MHz (CDD mode)	

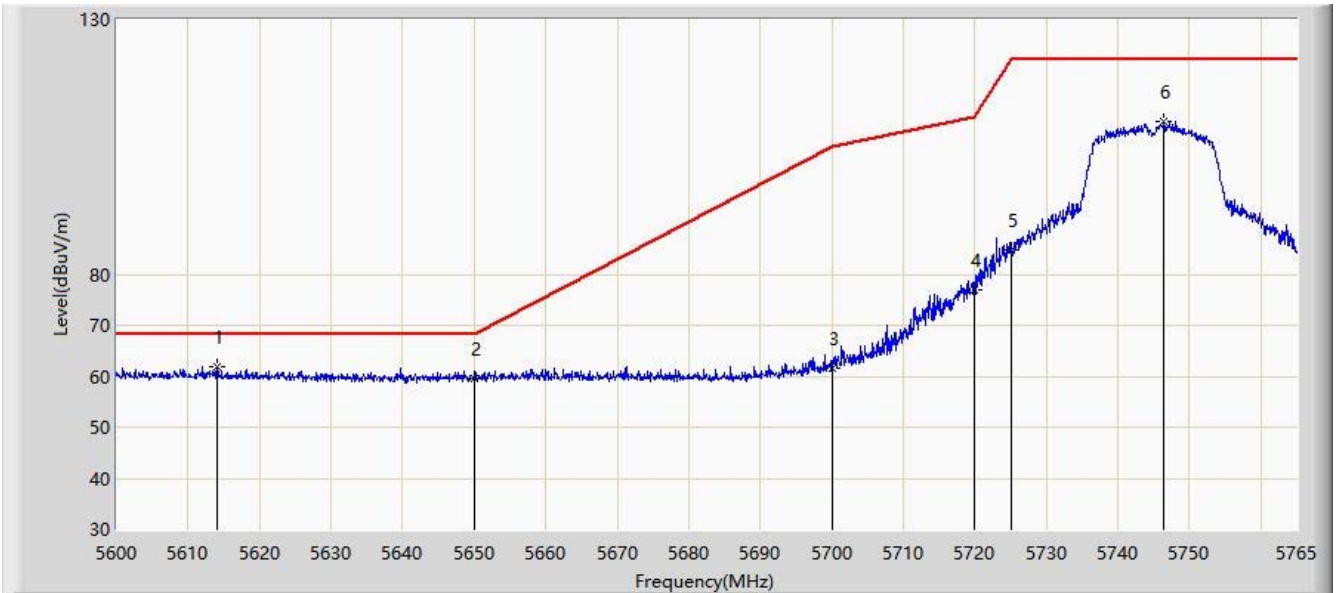


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.396	46.944	-0.604	54.000	6.452	AV
2		*	5178.535	103.505	97.000	N/A	N/A	6.505	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 23:46
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 5745MHz (CDD mode)	

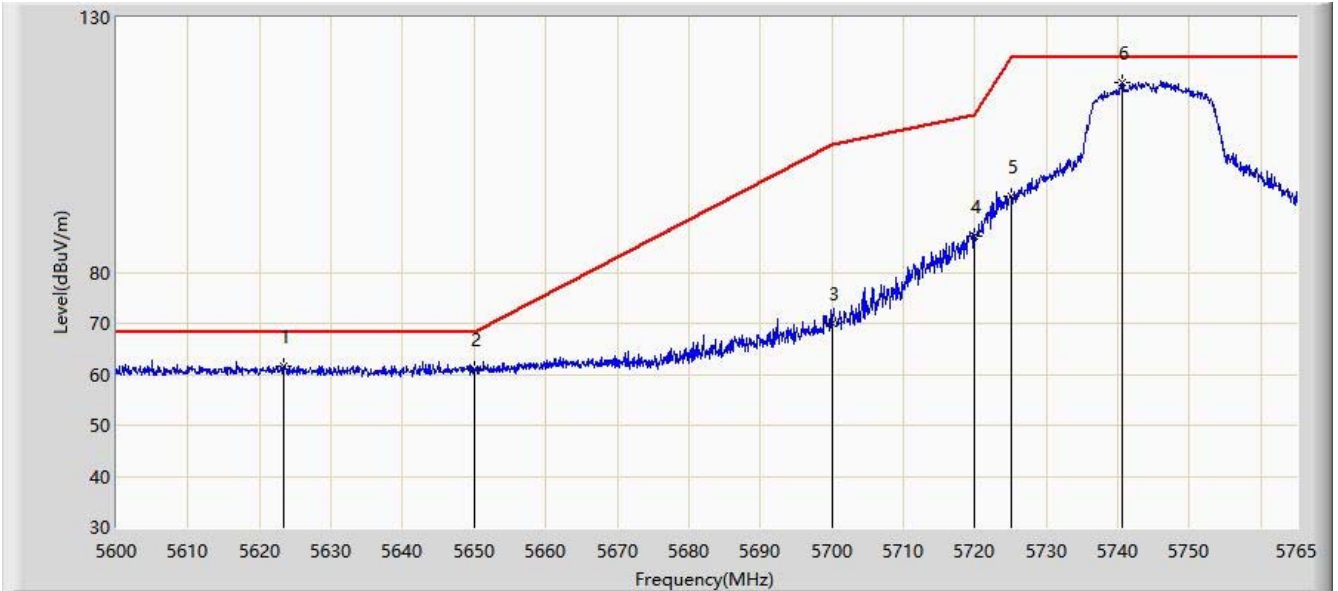


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5614.107	61.937	55.409	-6.263	68.200	6.529	PK
2			5650.000	59.697	53.438	-8.503	68.200	6.258	PK
3			5700.000	61.543	55.118	-43.657	105.200	6.426	PK
4			5720.000	77.050	70.665	-33.750	110.800	6.386	PK
5			5725.000	84.827	78.403	-37.373	122.200	6.424	PK
6			5746.437	110.070	103.296	N/A	N/A	6.774	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 23:45
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 5745MHz (CDD mode)	

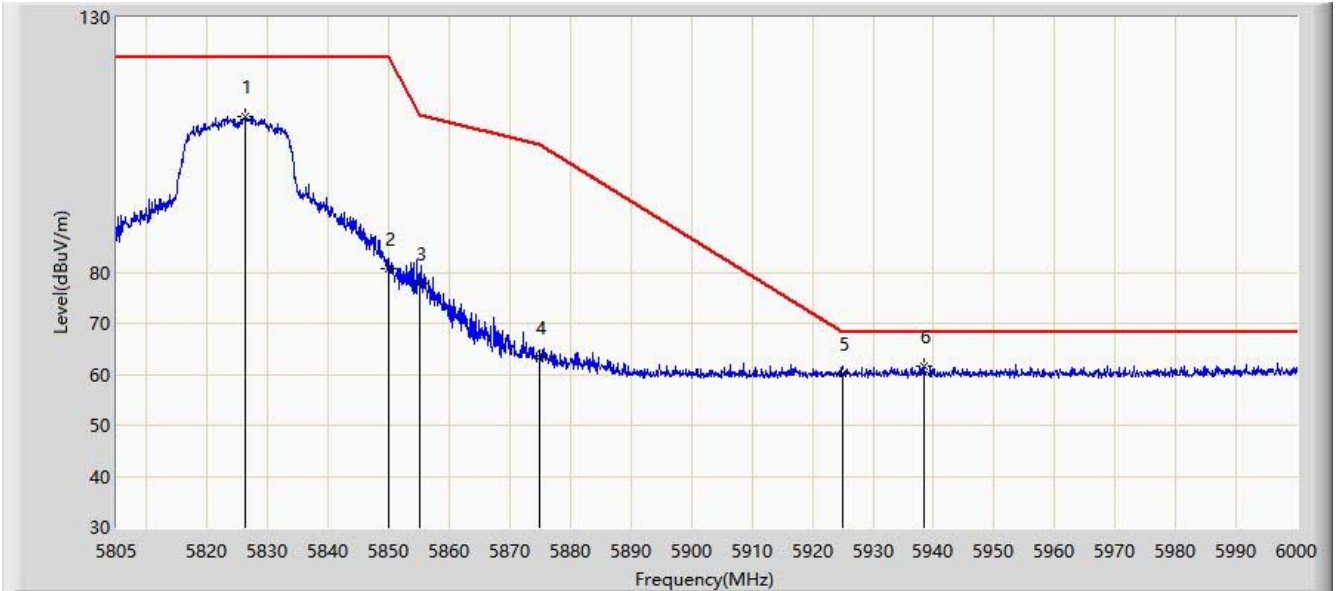


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5623.265	61.590	55.286	-6.610	68.200	6.304	PK
2			5650.000	61.048	54.789	-7.152	68.200	6.258	PK
3			5700.000	69.917	63.492	-35.283	105.200	6.426	PK
4			5720.000	87.013	80.628	-23.787	110.800	6.386	PK
5			5725.000	94.986	88.562	-27.214	122.200	6.424	PK
6		*	5740.580	117.201	110.485	N/A	N/A	6.716	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 23:59
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 5825MHz (CDD mode)	

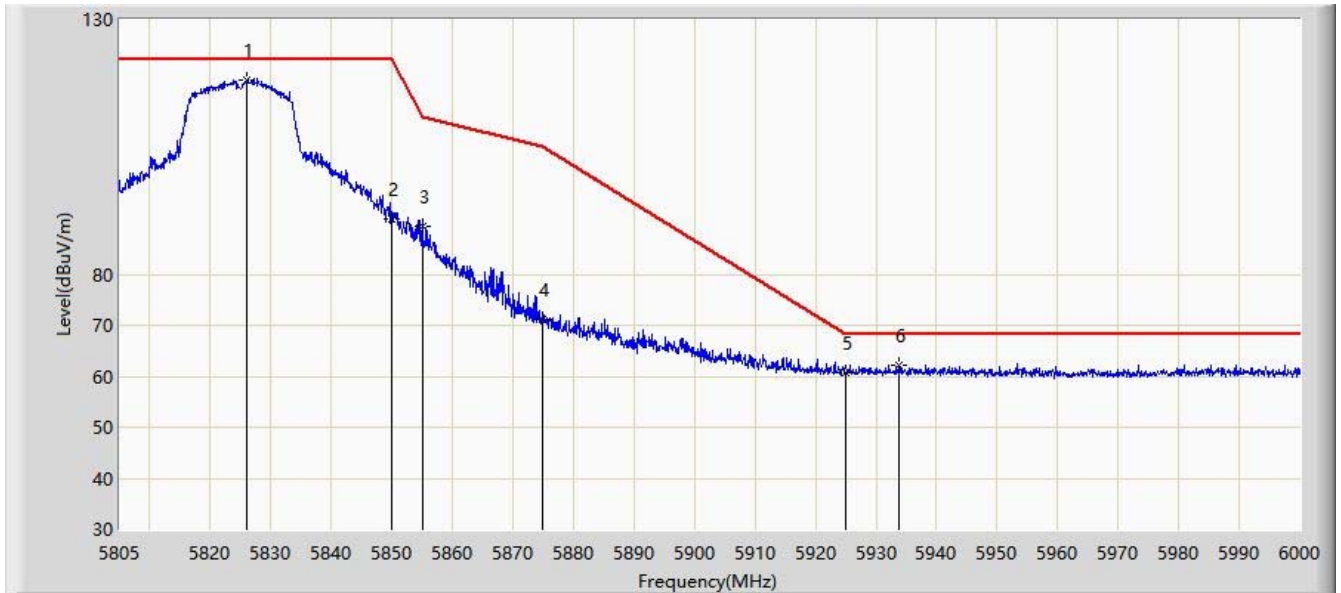


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5826.353	110.511	103.451	N/A	N/A	7.060	PK
2			5850.000	80.702	73.894	-41.498	122.200	6.808	PK
3			5855.000	77.925	71.105	-32.875	110.800	6.820	PK
4			5875.000	63.461	56.543	-41.739	105.200	6.918	PK
5			5925.000	60.106	53.009	-8.094	68.200	7.097	PK
6		*	5938.380	61.493	54.285	-6.707	68.200	7.208	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/07 - 23:56
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at channel 5825MHz (CDD mode)	

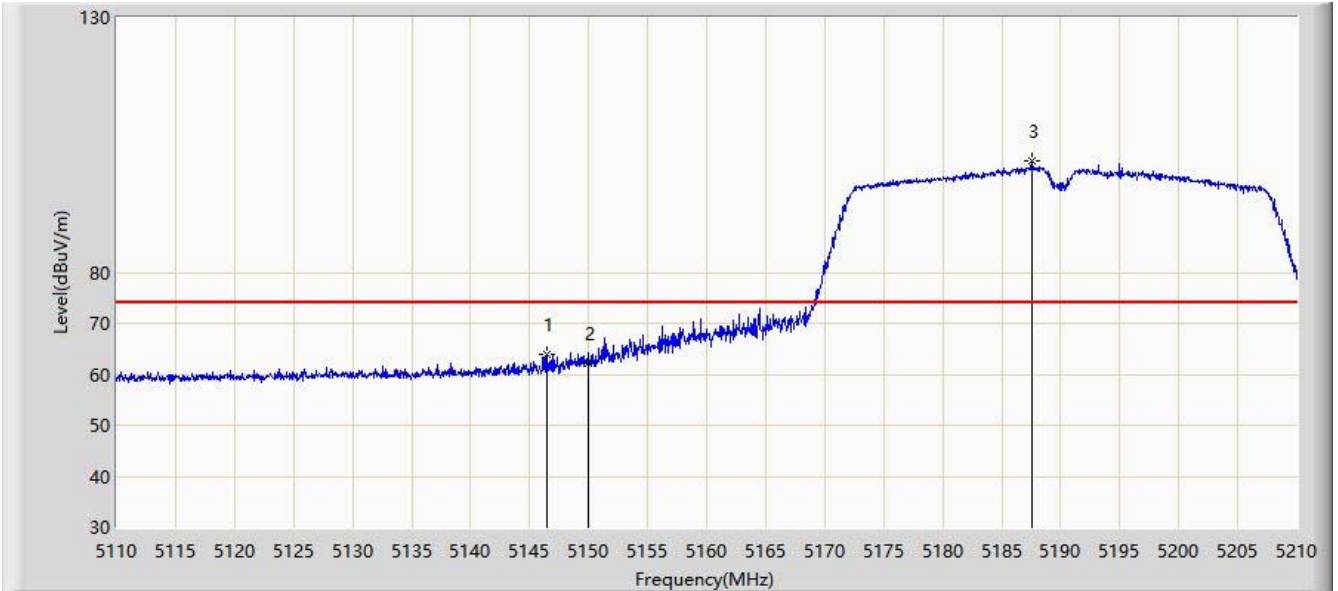


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5825.962	118.221	111.168	N/A	N/A	7.054	PK
2			5850.000	91.005	84.197	-31.195	122.200	6.808	PK
3			5855.000	89.560	82.740	-21.240	110.800	6.820	PK
4			5875.000	71.242	64.324	-33.958	105.200	6.918	PK
5			5925.000	60.638	53.541	-7.562	68.200	7.097	PK
6			5933.895	62.037	54.855	-6.163	68.200	7.182	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 00:15
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 5190MHz (CDD mode)	



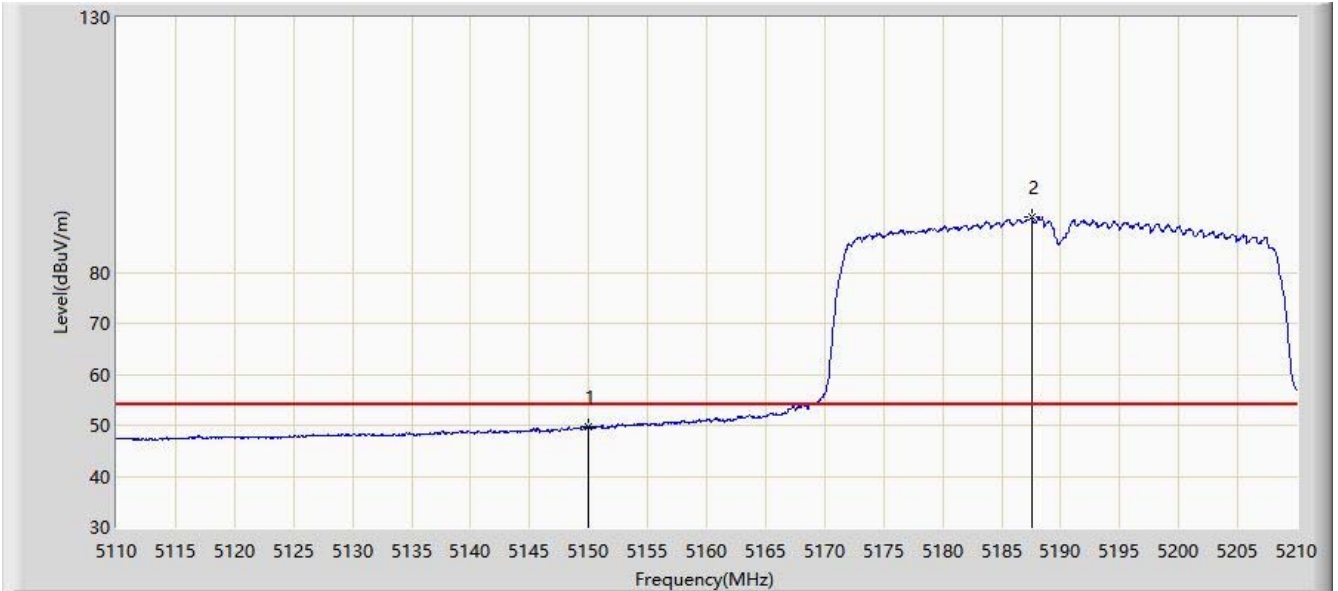
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5146.450	63.935	57.454	-10.065	74.000	6.481	PK
2			5150.000	62.195	55.743	-11.805	74.000	6.452	PK
3		*	5187.550	101.874	95.392	N/A	N/A	6.482	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Site: AC1	Time: 2020/08/08 - 00:16
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 5190MHz (CDD mode)	

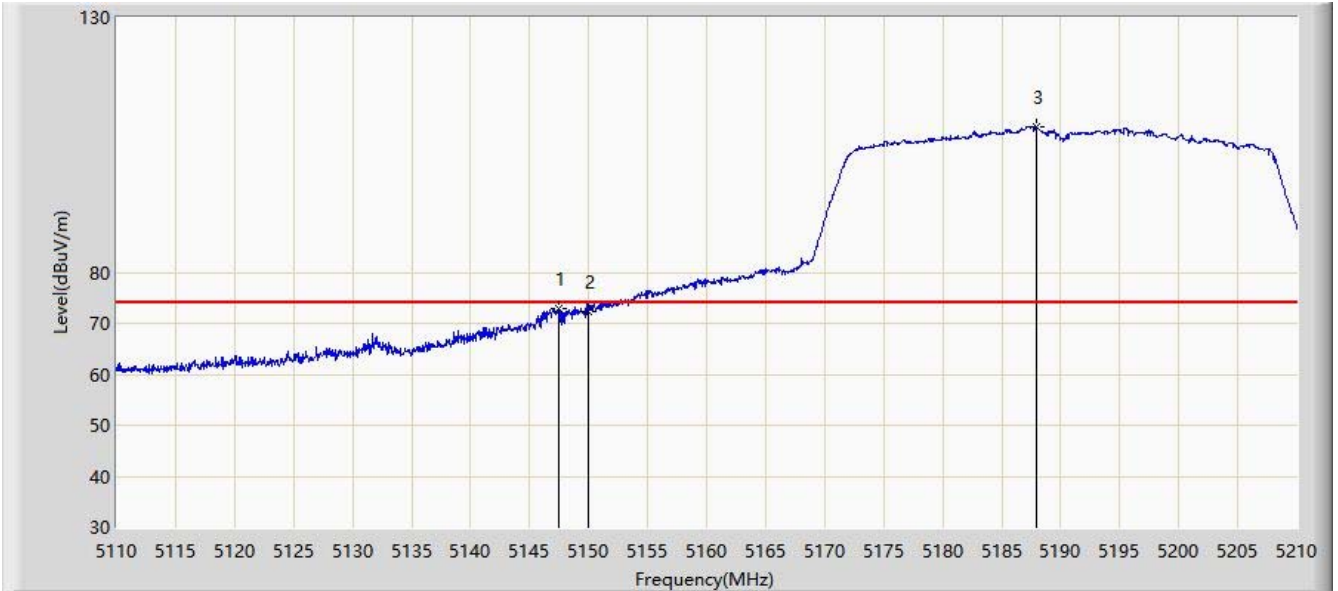


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	49.592	43.140	-4.408	54.000	6.452	AV
2		*	5187.550	90.816	84.334	N/A	N/A	6.482	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 00:08
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 5190MHz (CDD mode)	

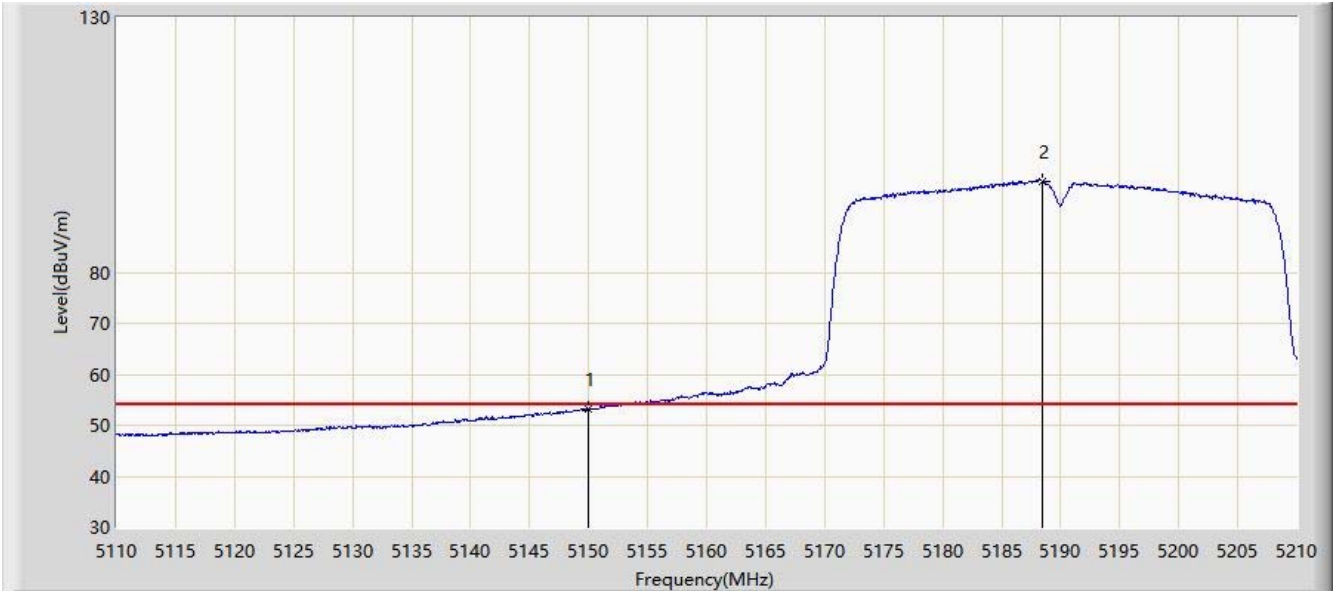


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.450	73.033	66.570	-0.967	74.000	6.463	PK
2			5150.000	72.427	65.975	-1.573	74.000	6.452	PK
3		*	5187.900	108.543	102.066	N/A	N/A	6.477	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 00:05
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 5190MHz (CDD mode)	

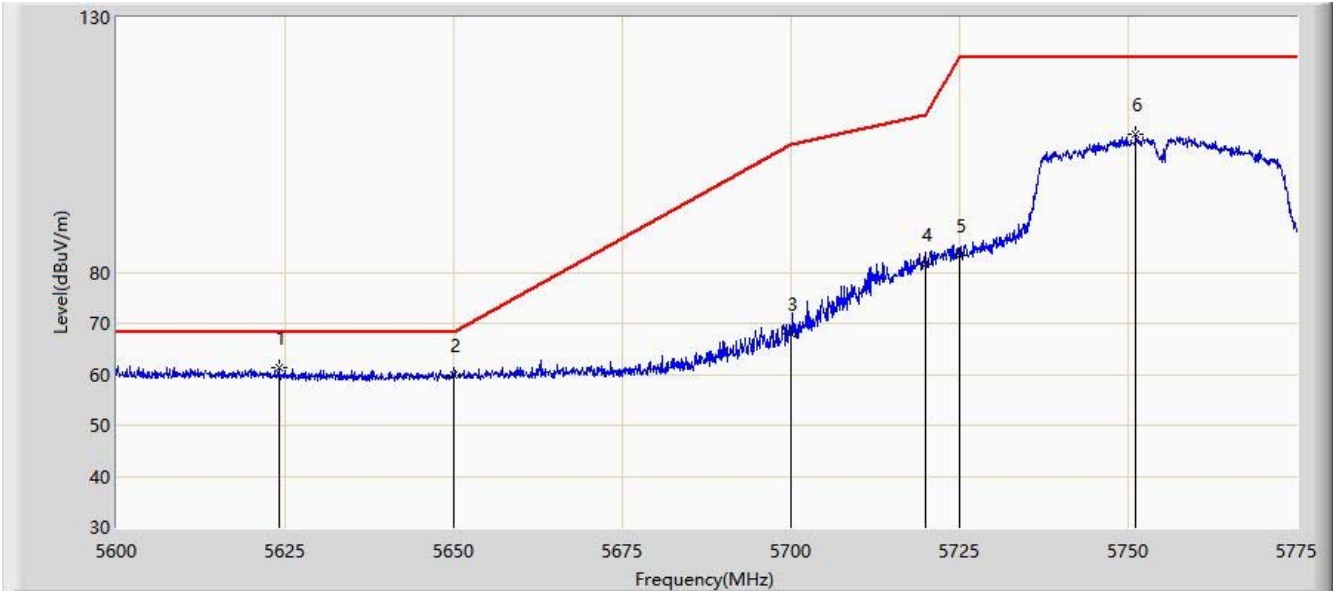


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.220	46.768	-0.780	54.000	6.452	AV
2		*	5188.500	97.875	91.405	N/A	N/A	6.469	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 00:54
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 5755MHz (CDD mode)	

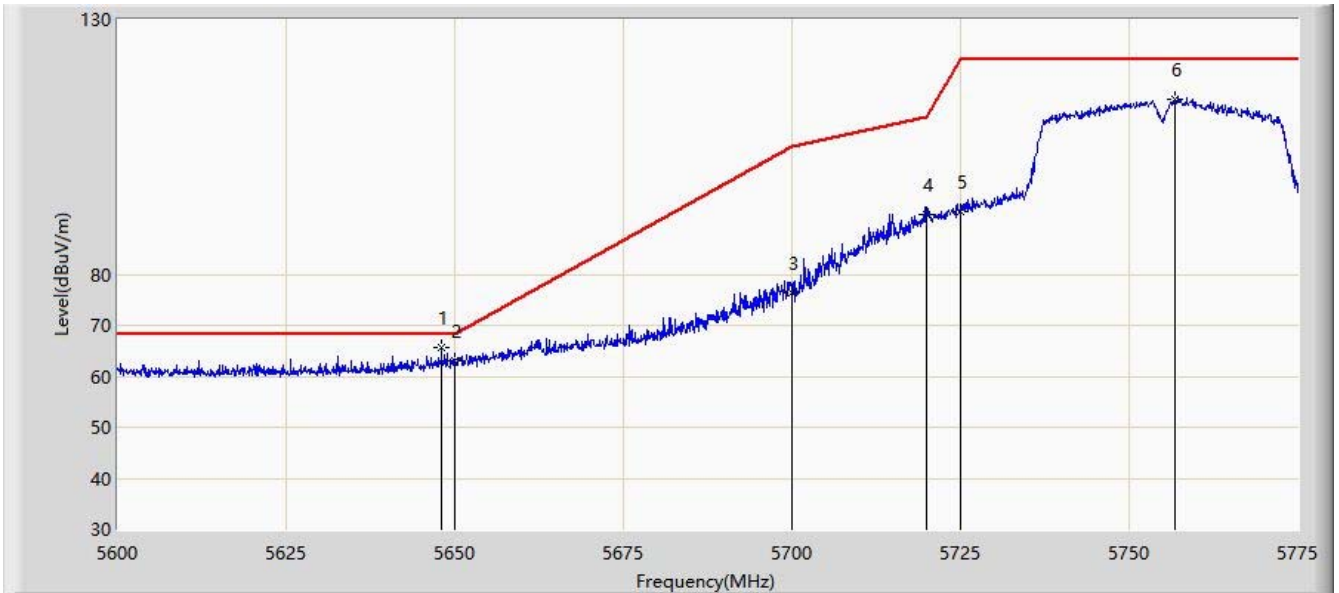


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5624.062	61.387	55.105	-6.813	68.200	6.282	PK
2			5650.000	59.735	53.476	-8.465	68.200	6.258	PK
3			5700.000	67.994	61.569	-37.206	105.200	6.426	PK
4			5720.000	81.527	75.142	-29.273	110.800	6.386	PK
5			5725.000	83.428	77.004	-38.772	122.200	6.424	PK
6			5751.200	107.206	100.401	N/A	N/A	6.805	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 00:53
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 5755MHz (CDD mode)	

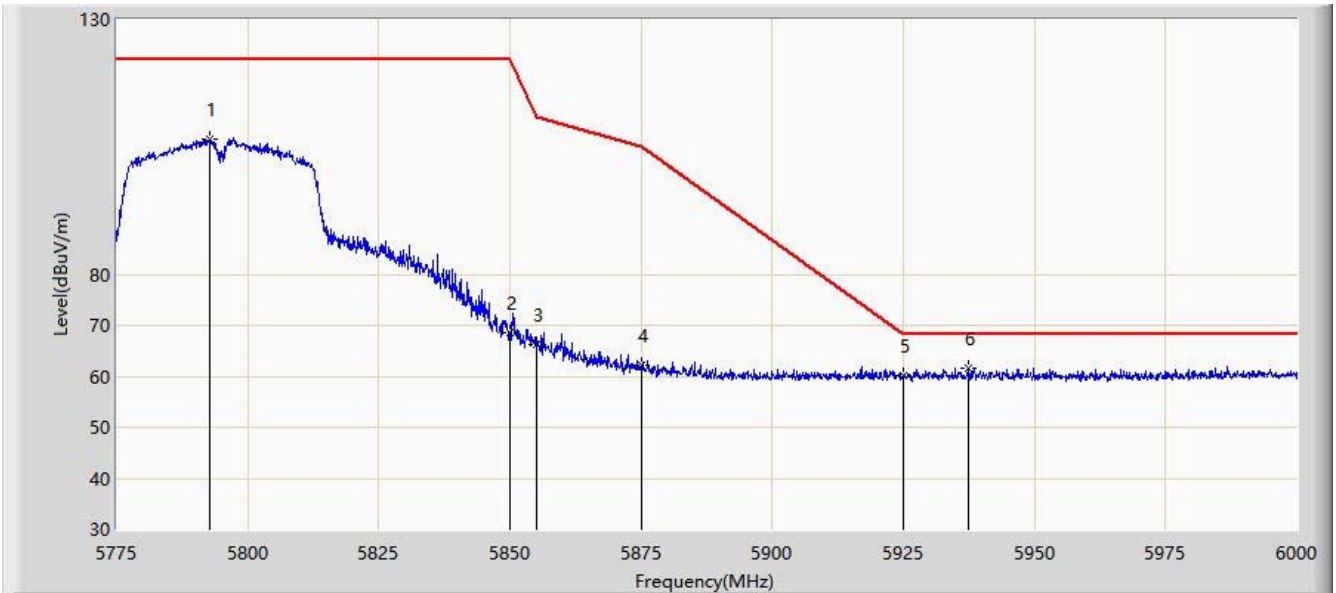


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5648.038	65.746	59.528	-2.454	68.200	6.219	PK
2			5650.000	62.994	56.735	-5.206	68.200	6.258	PK
3			5700.000	76.459	70.034	-28.741	105.200	6.426	PK
4			5720.000	91.736	85.351	-19.064	110.800	6.386	PK
5			5725.000	92.389	85.965	-29.811	122.200	6.424	PK
6			5756.712	114.455	107.615	N/A	N/A	6.841	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 00:58
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 5795MHz (CDD mode)	

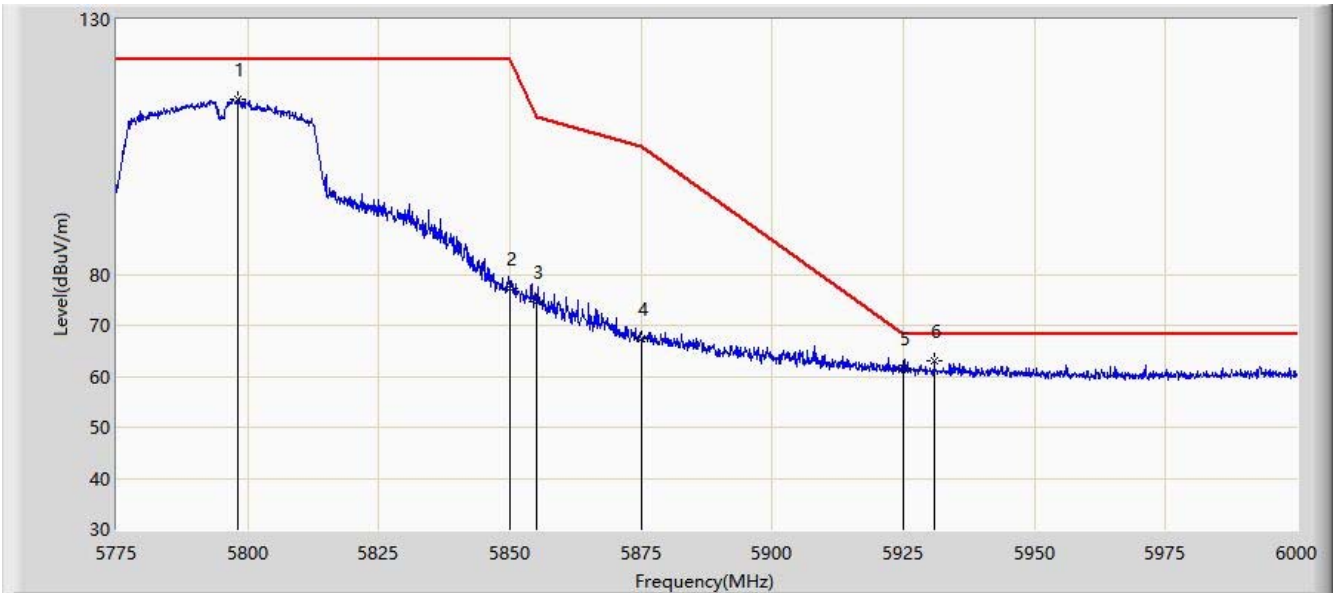


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5792.888	106.384	99.664	N/A	N/A	6.720	PK
2			5850.000	68.429	61.621	-53.771	122.200	6.808	PK
3			5855.000	66.132	59.312	-44.668	110.800	6.820	PK
4			5875.000	62.057	55.139	-43.143	105.200	6.918	PK
5			5925.000	60.060	52.963	-8.140	68.200	7.097	PK
6		*	5937.337	61.621	54.419	-6.579	68.200	7.201	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 00:57
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT40 at channel 5795MHz (CDD mode)	

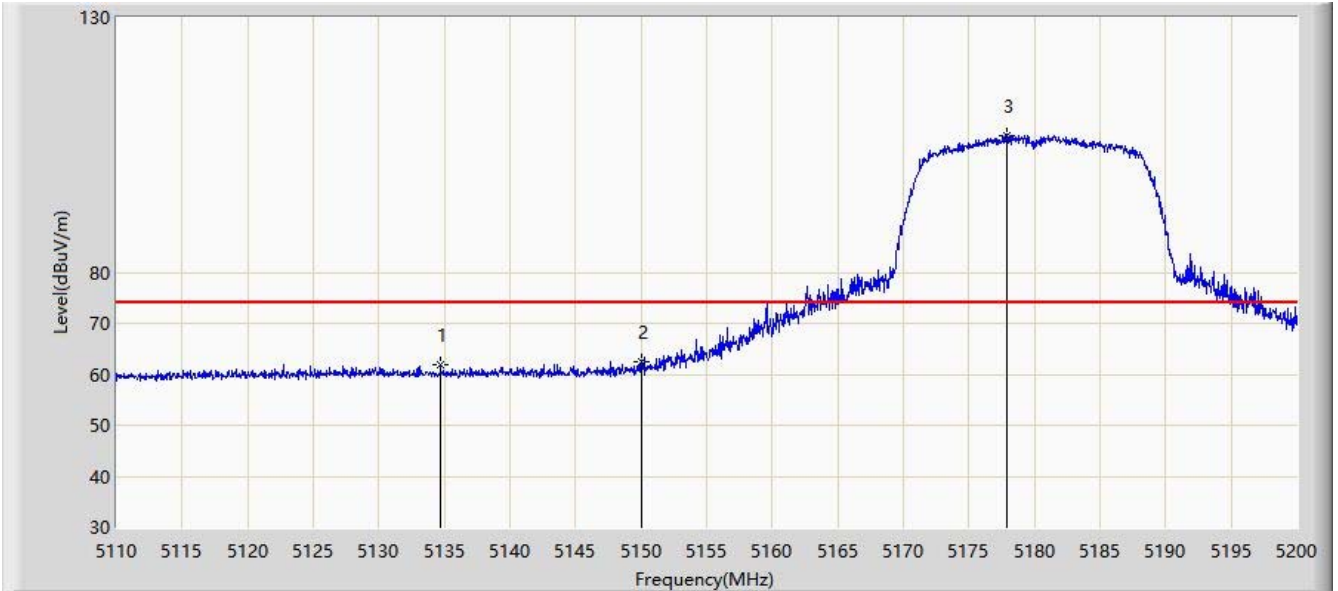


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5798.175	114.372	107.632	N/A	N/A	6.740	PK
2			5850.000	77.229	70.421	-44.971	122.200	6.808	PK
3			5855.000	74.780	67.960	-36.020	110.800	6.820	PK
4			5875.000	67.396	60.478	-37.804	105.200	6.918	PK
5			5925.000	61.521	54.424	-6.679	68.200	7.097	PK
6		*	5930.925	63.184	56.019	-5.016	68.200	7.166	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 01:12
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at channel 5180MHz (CDD mode)	



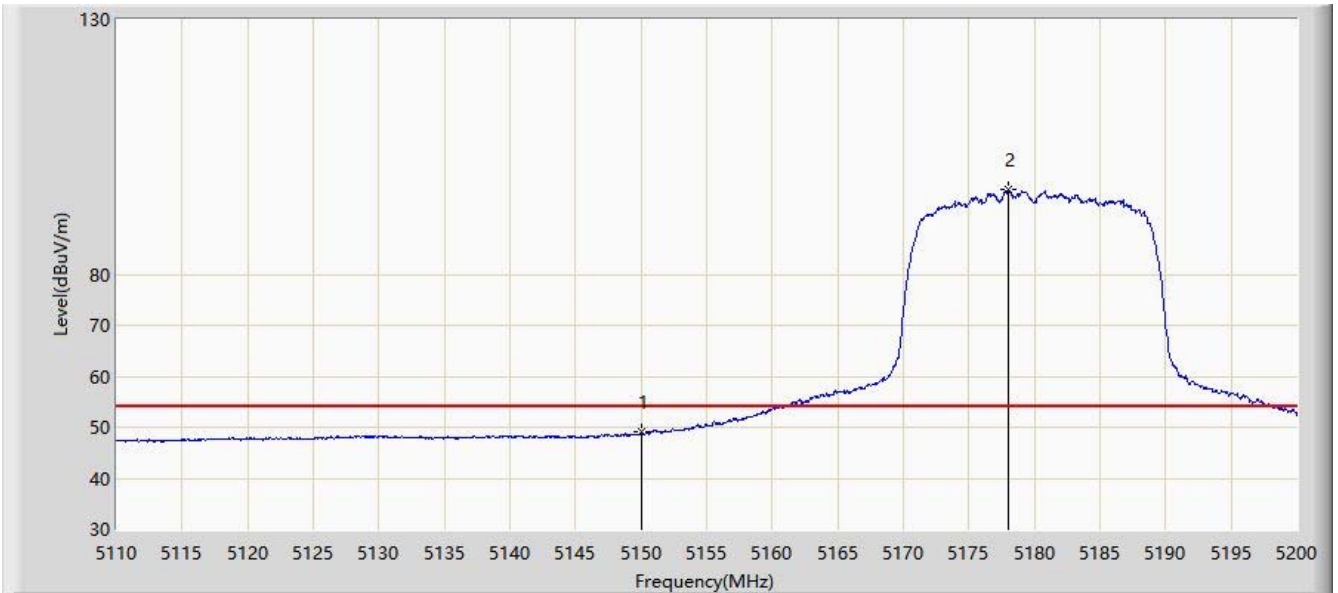
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5134.705	61.960	55.272	-12.040	74.000	6.688	PK
2			5150.000	62.381	55.929	-11.619	74.000	6.452	PK
3		*	5177.905	106.879	100.378	N/A	N/A	6.501	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Site: AC1	Time: 2020/08/08 - 01:15
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at channel 5180MHz (CDD mode)	

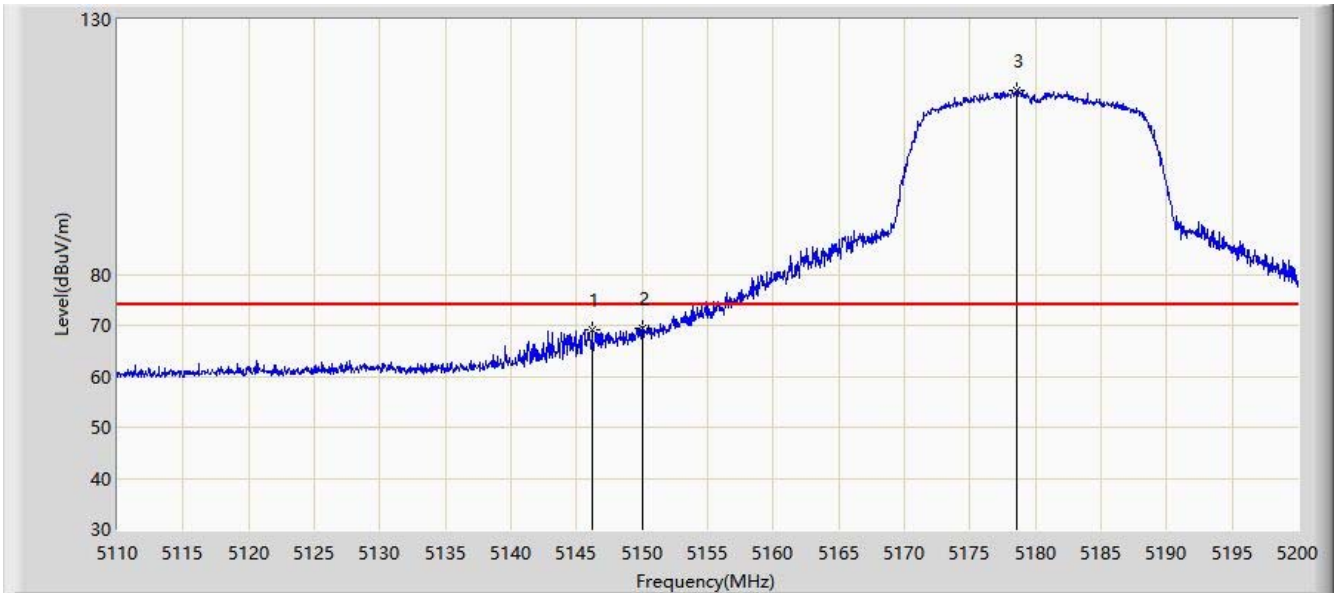


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	49.003	42.551	-4.997	54.000	6.452	AV
2		*	5177.995	96.535	90.034	N/A	N/A	6.502	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 01:11
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at channel 5180MHz (CDD mode)	

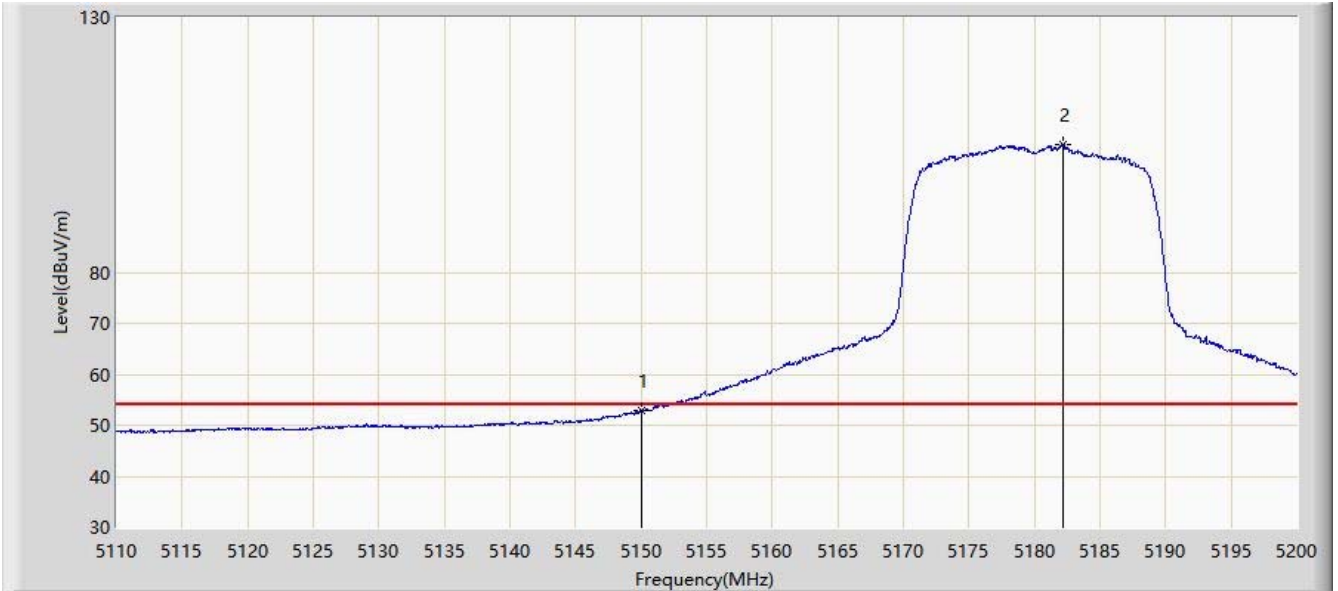


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5146.180	69.232	62.746	-4.768	74.000	6.485	PK
2			5150.000	69.404	62.952	-4.596	74.000	6.452	PK
3		*	5178.580	116.206	109.701	N/A	N/A	6.506	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 01:06
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at channel 5180MHz (CDD mode)	

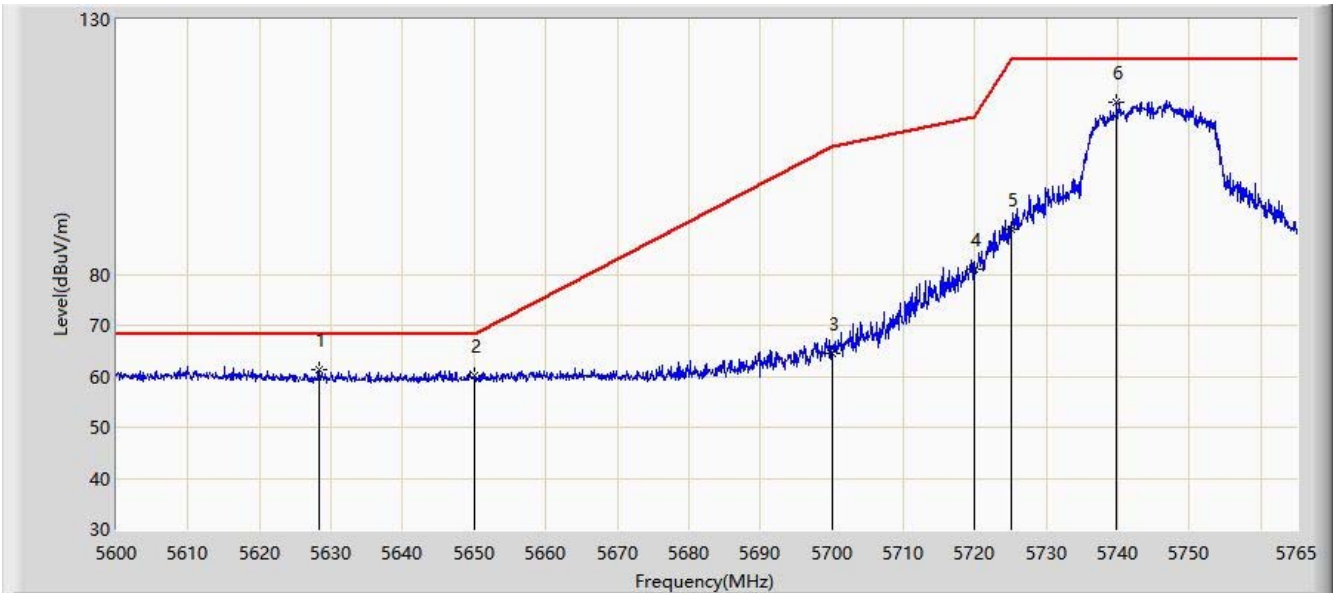


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.792	46.340	-1.208	54.000	6.452	AV
2		*	5182.135	105.003	98.474	N/A	N/A	6.529	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 02:00
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at channel 5745MHz (CDD mode)	

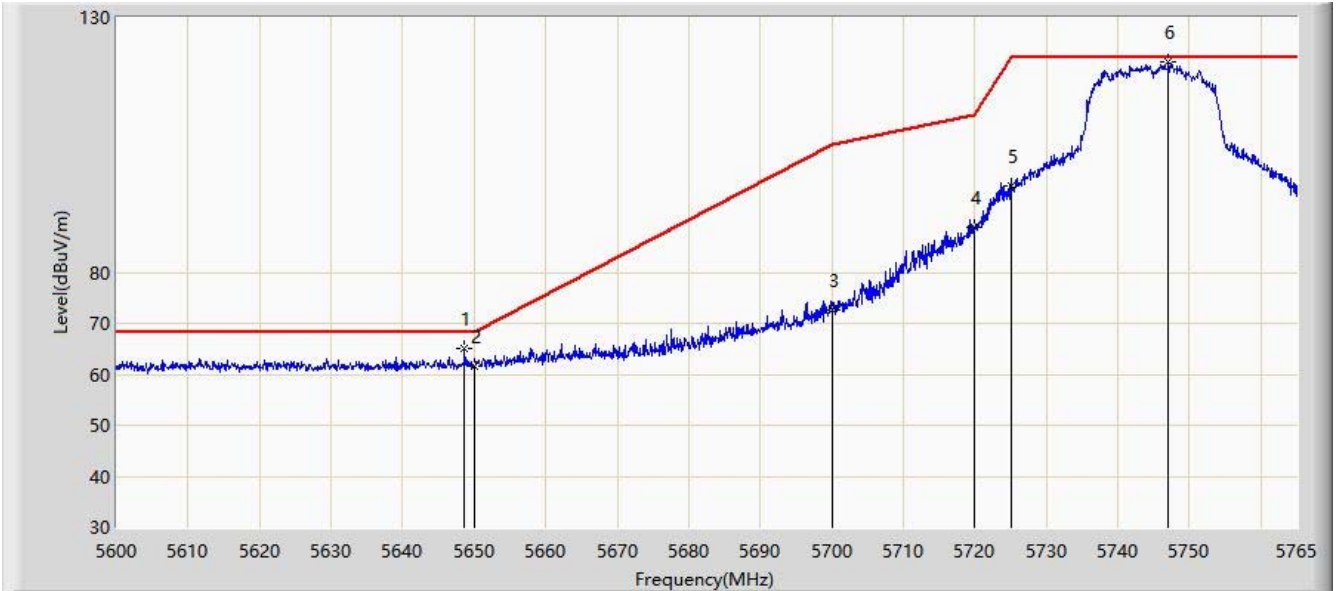


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5628.297	61.344	55.171	-6.856	68.200	6.173	PK
2			5650.000	60.007	53.748	-8.193	68.200	6.258	PK
3			5700.000	64.634	58.209	-40.566	105.200	6.426	PK
4			5720.000	81.012	74.627	-29.788	110.800	6.386	PK
5			5725.000	88.844	82.420	-33.356	122.200	6.424	PK
6			5739.755	113.764	107.063	N/A	N/A	6.701	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 01:58
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at channel 5745MHz (CDD mode)	

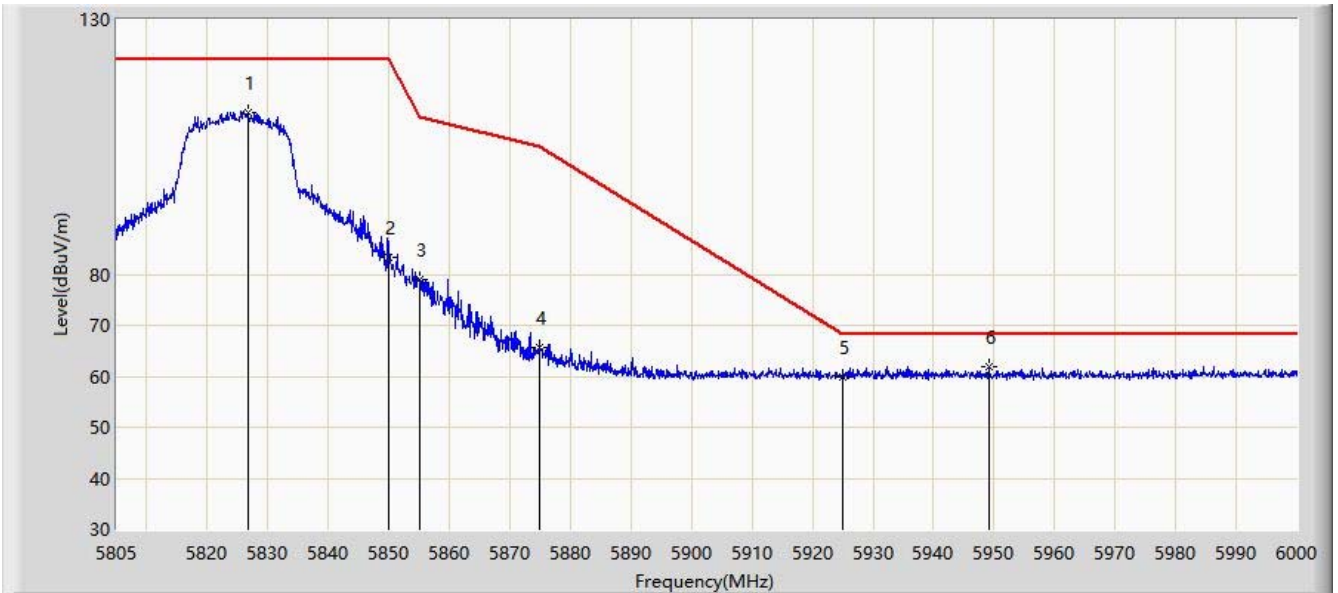


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5648.675	65.158	58.927	-3.042	68.200	6.230	PK
2			5650.000	61.698	55.439	-6.502	68.200	6.258	PK
3			5700.000	72.644	66.219	-32.556	105.200	6.426	PK
4			5720.000	88.894	82.509	-21.906	110.800	6.386	PK
5			5725.000	96.912	90.488	-25.288	122.200	6.424	PK
6		*	5747.015	121.344	114.566	N/A	N/A	6.778	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 02:04
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at channel 5825MHz (CDD mode)	

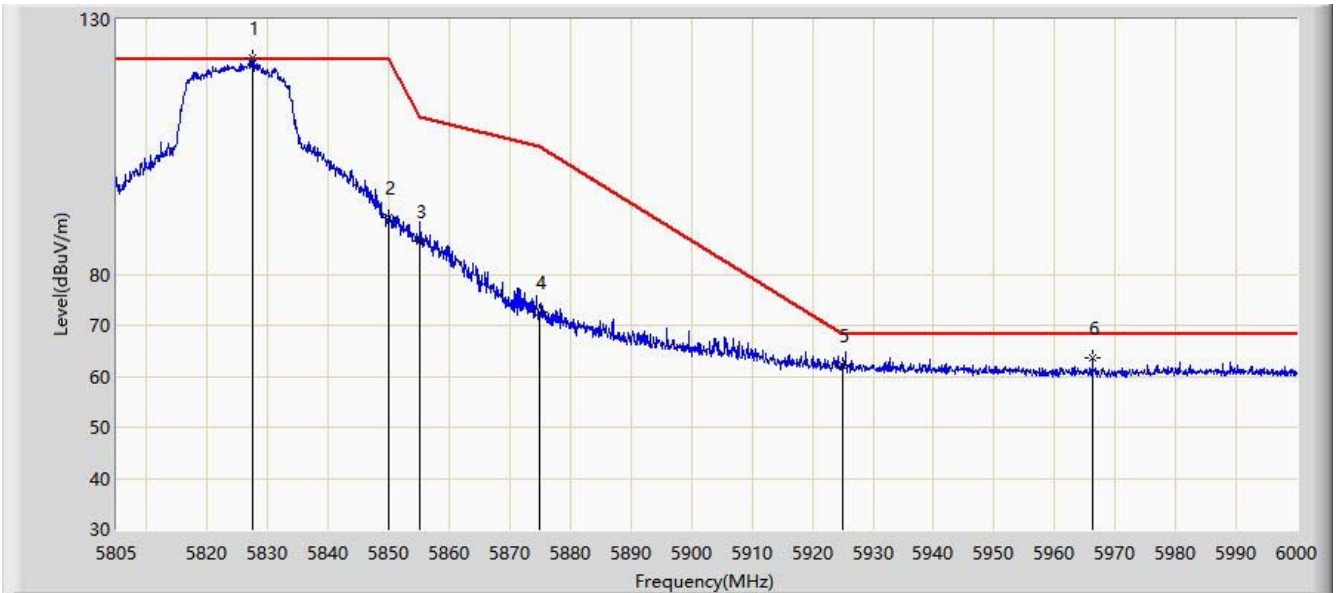


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5826.743	111.876	104.810	N/A	N/A	7.067	PK
2			5850.000	83.253	76.445	-38.947	122.200	6.808	PK
3			5855.000	79.022	72.202	-31.778	110.800	6.820	PK
4			5875.000	65.689	58.771	-39.511	105.200	6.918	PK
5			5925.000	59.989	52.892	-8.211	68.200	7.097	PK
6		*	5949.105	61.788	54.706	-6.412	68.200	7.083	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 02:01
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT20 at channel 5825MHz (CDD mode)	

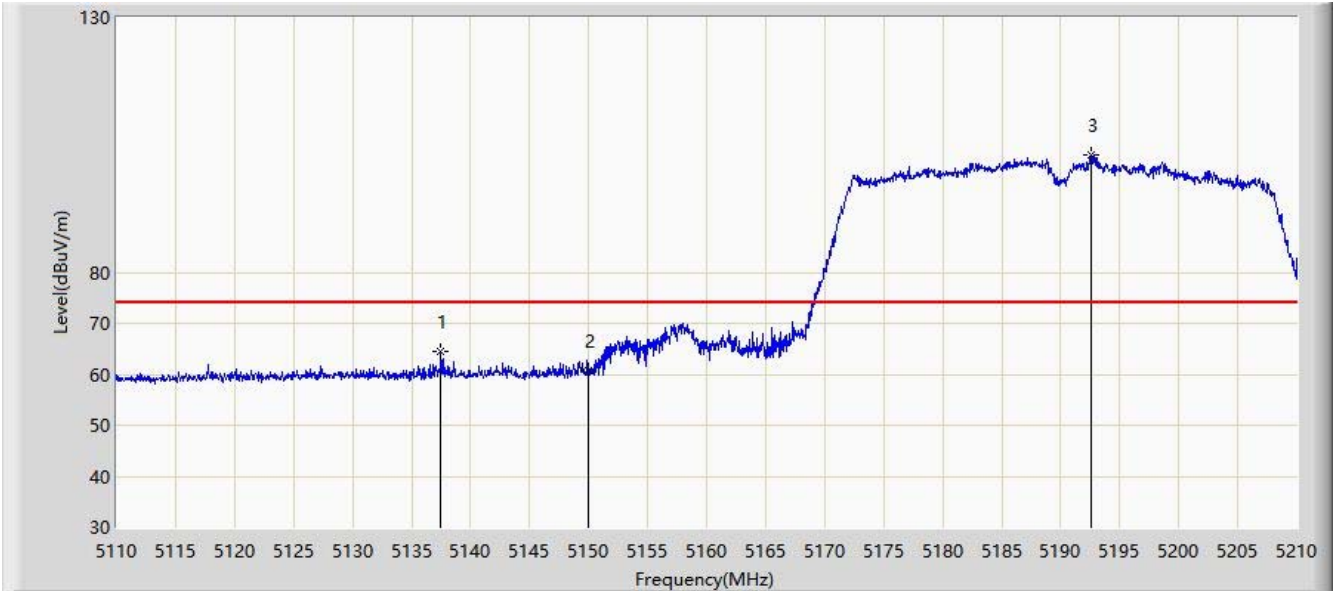


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5827.425	122.486	115.408	N/A	N/A	7.078	PK
2			5850.000	91.113	84.305	-31.087	122.200	6.808	PK
3			5855.000	86.429	79.609	-24.371	110.800	6.820	PK
4			5875.000	72.630	65.712	-32.570	105.200	6.918	PK
5			5925.000	62.226	55.129	-5.974	68.200	7.097	PK
6			5966.265	63.639	56.722	-4.561	68.200	6.917	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 02:23
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz (CDD mode)	



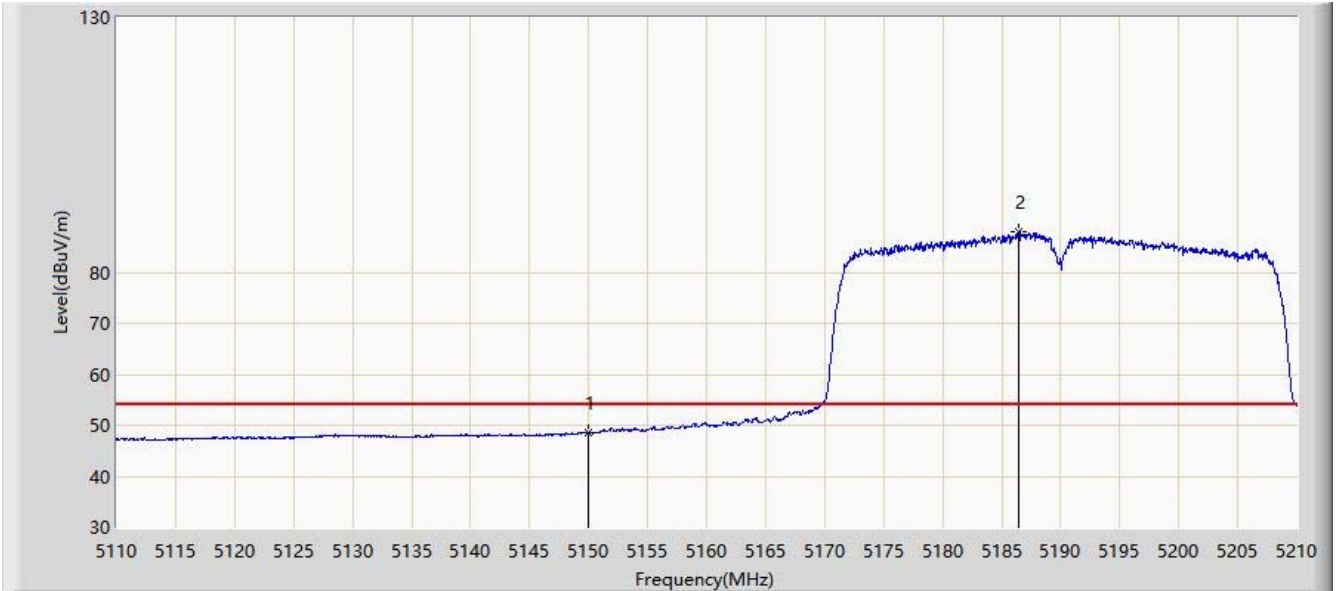
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5137.450	64.621	57.982	-9.379	74.000	6.640	PK
2			5150.000	60.725	54.273	-13.275	74.000	6.452	PK
3		*	5192.550	103.046	96.628	N/A	N/A	6.418	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Site: AC1	Time: 2020/08/08 - 02:25
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz (CDD mode)	

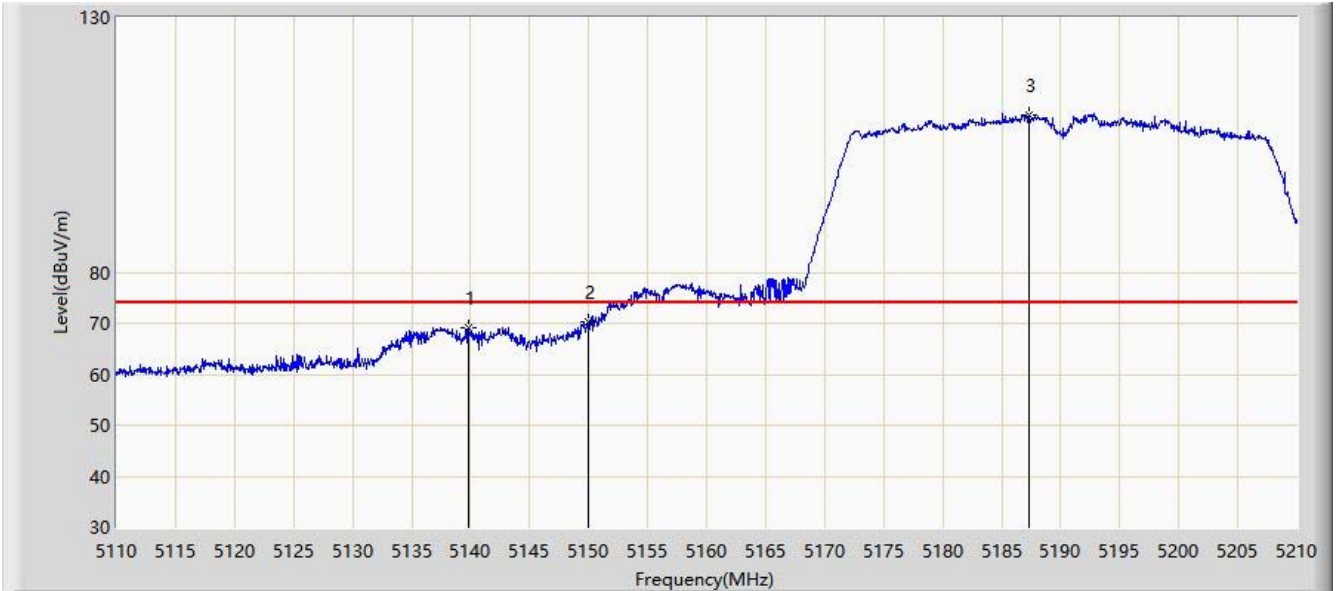


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	48.485	42.033	-5.515	54.000	6.452	AV
2		*	5186.450	88.063	81.567	N/A	N/A	6.496	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 02:20
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz (CDD mode)	

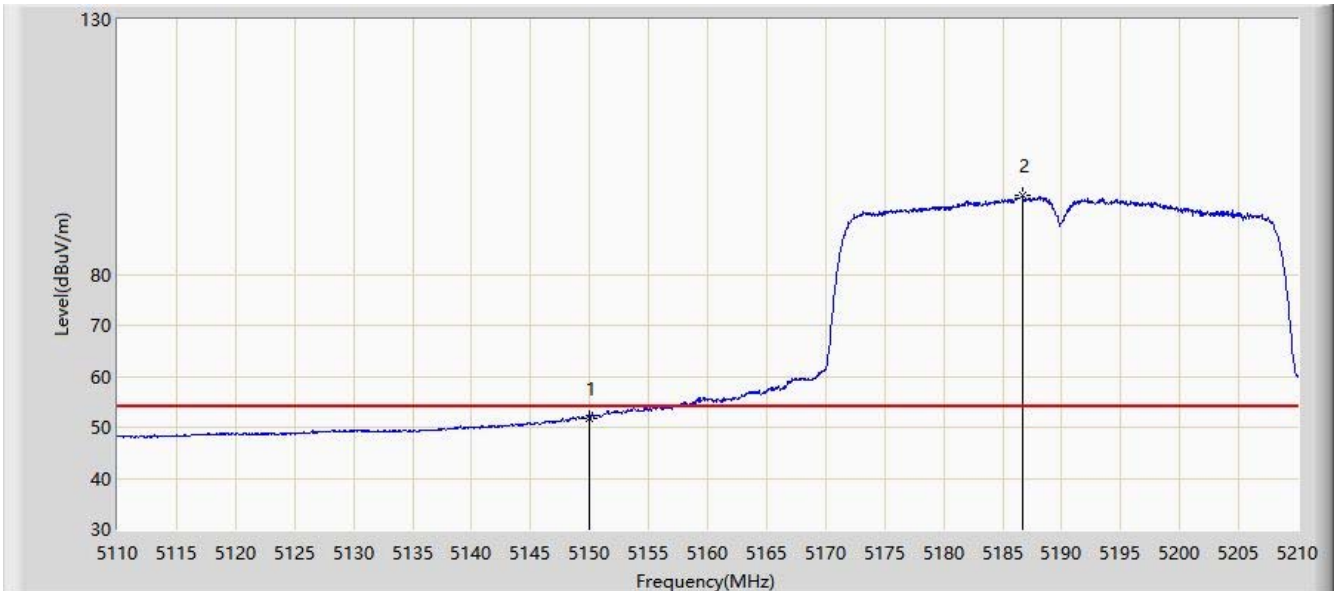


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5139.850	69.048	62.451	-4.952	74.000	6.597	PK
2			5150.000	70.209	63.757	-3.791	74.000	6.452	PK
3		*	5187.350	110.955	104.471	N/A	N/A	6.484	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 02:16
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5190MHz (CDD mode)	

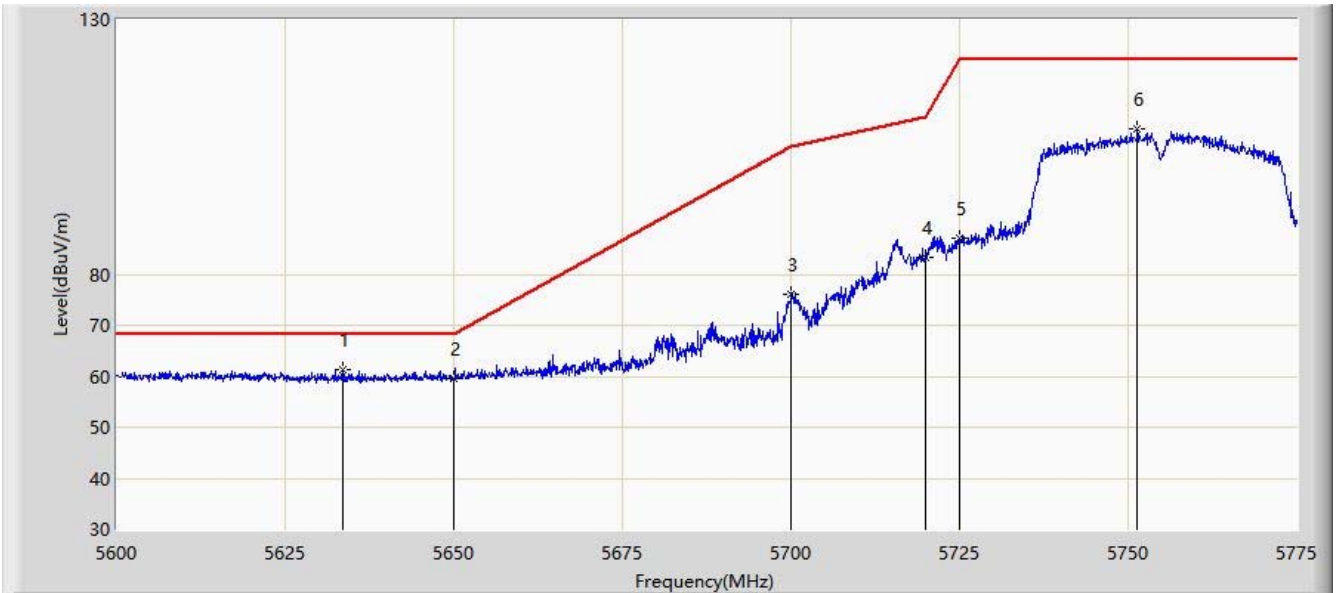


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	51.865	45.413	-2.135	54.000	6.452	AV
2		*	5186.650	95.397	88.904	N/A	N/A	6.493	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 03:13
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5755MHz (CDD mode)	

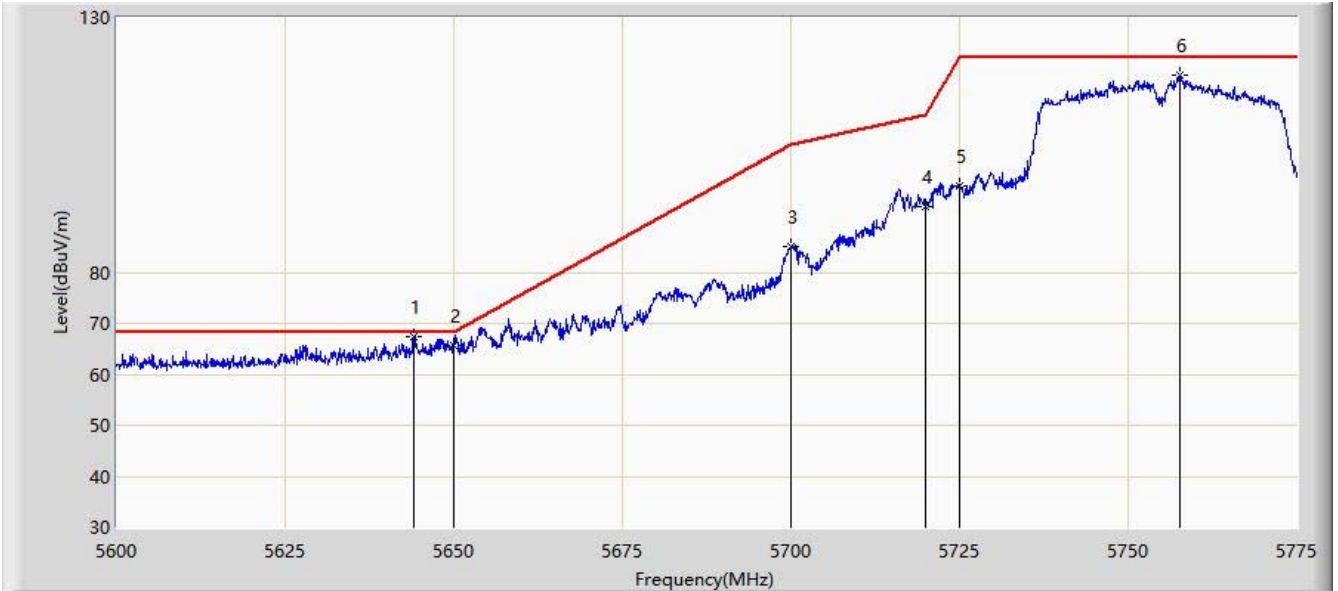


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5633.513	61.250	55.201	-6.950	68.200	6.048	PK
2			5650.000	59.440	53.181	-8.760	68.200	6.258	PK
3			5700.000	76.093	69.668	-29.107	105.200	6.426	PK
4			5720.000	83.477	77.092	-27.323	110.800	6.386	PK
5			5725.000	86.962	80.538	-35.238	122.200	6.424	PK
6			5751.375	108.483	101.677	N/A	N/A	6.806	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 03:12
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5755MHz (CDD mode)	

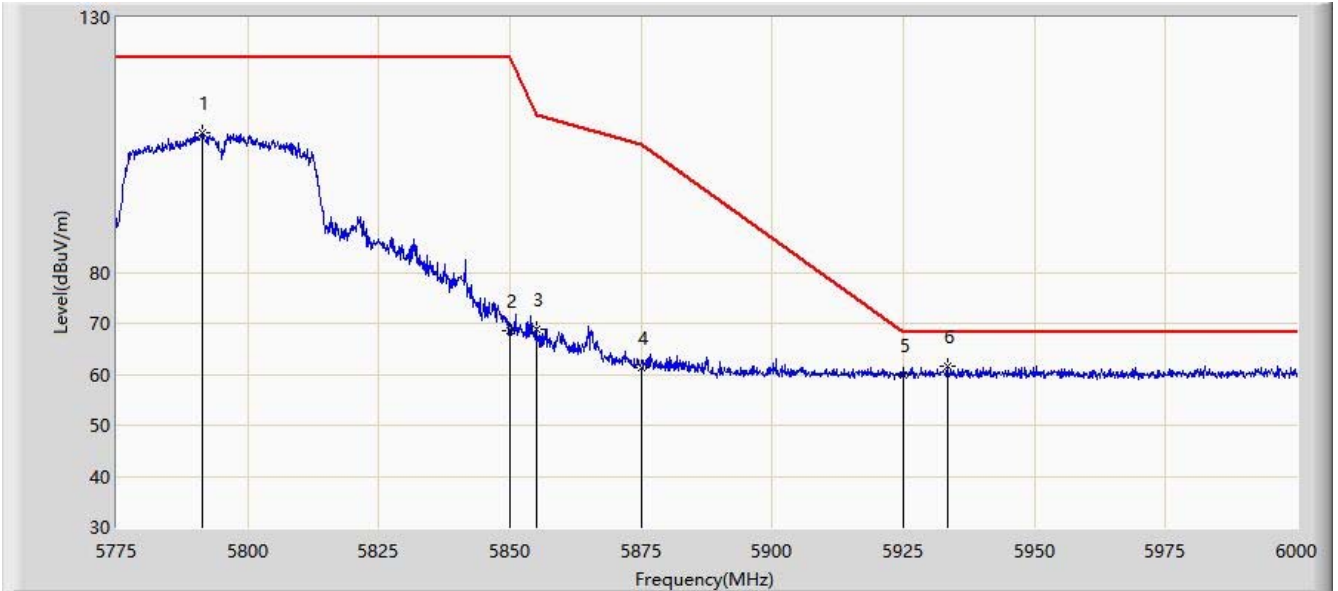


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5644.187	67.448	61.310	-0.752	68.200	6.138	PK
2			5650.000	65.677	59.418	-2.523	68.200	6.258	PK
3			5700.000	84.972	78.547	-20.228	105.200	6.426	PK
4			5720.000	92.905	86.520	-17.895	110.800	6.386	PK
5			5725.000	96.836	90.412	-25.364	122.200	6.424	PK
6			5757.763	118.810	111.963	N/A	N/A	6.847	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 03:21
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5795MHz (CDD mode)	

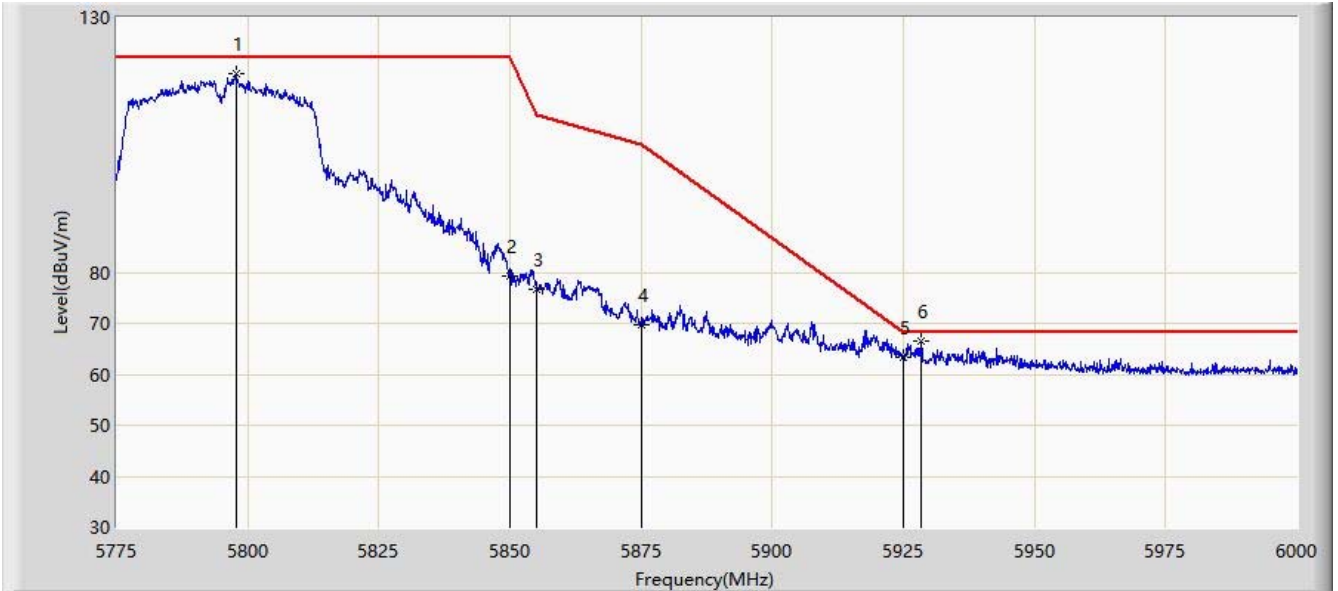


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5791.425	107.436	100.721	N/A	N/A	6.715	PK
2			5850.000	68.577	61.769	-53.623	122.200	6.808	PK
3			5855.000	68.893	62.073	-41.907	110.800	6.820	PK
4			5875.000	61.390	54.472	-43.810	105.200	6.918	PK
5			5925.000	59.861	52.764	-8.339	68.200	7.097	PK
6		*	5933.400	61.530	54.351	-6.670	68.200	7.180	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 03:19
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT40 at channel 5795MHz (CDD mode)	

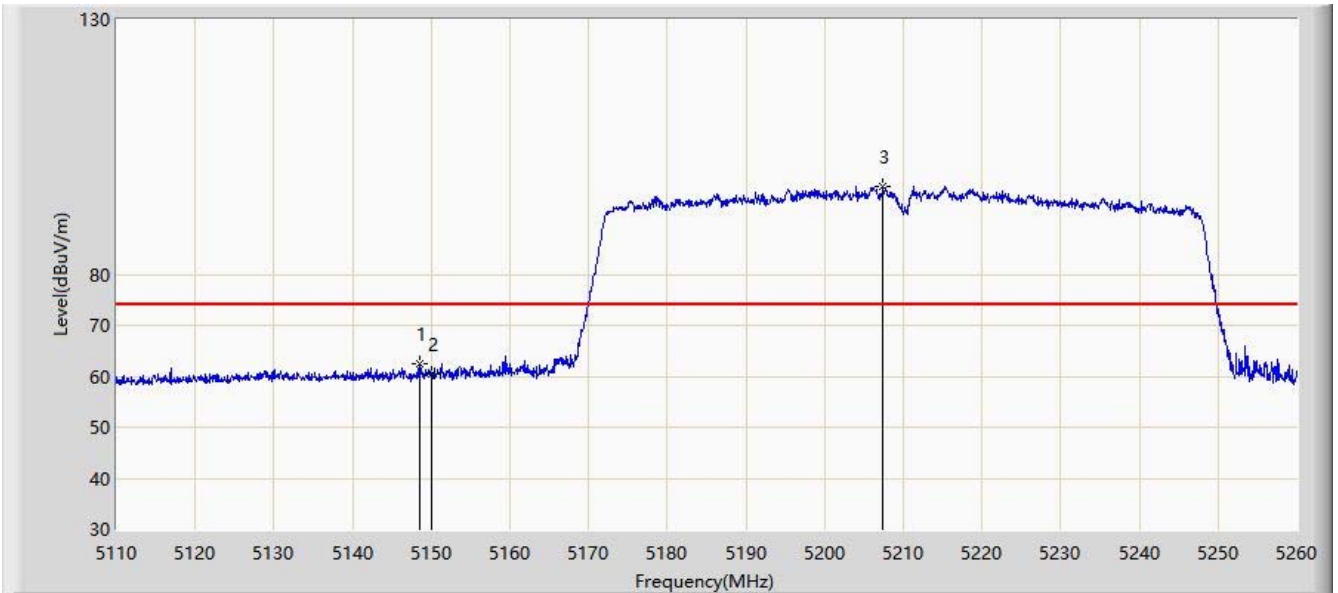


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5797.725	118.955	112.217	N/A	N/A	6.738	PK
2			5850.000	79.216	72.408	-42.984	122.200	6.808	PK
3			5855.000	76.562	69.742	-34.238	110.800	6.820	PK
4			5875.000	69.717	62.799	-35.483	105.200	6.918	PK
5			5925.000	63.384	56.287	-4.816	68.200	7.097	PK
6		*	5928.337	66.497	59.358	-1.703	68.200	7.139	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 03:54
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz (CDD mode)	



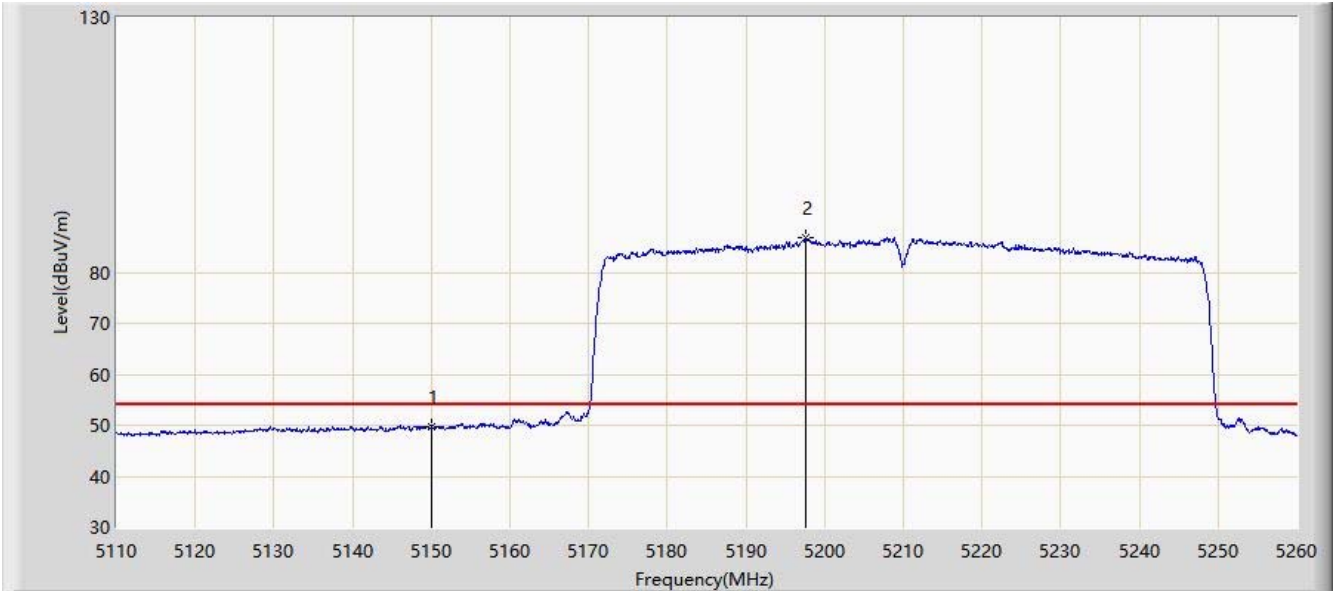
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.550	62.329	55.875	-11.671	74.000	6.454	PK
2			5150.000	60.577	54.125	-13.423	74.000	6.452	PK
3		*	5207.425	97.258	91.023	N/A	N/A	6.235	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)



Site: AC1	Time: 2020/08/08 - 03:56
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz (CDD mode)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	49.815	43.363	-4.185	54.000	6.452	AV
2		*	5197.600	86.719	80.365	N/A	N/A	6.354	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 03:52
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz (CDD mode)	

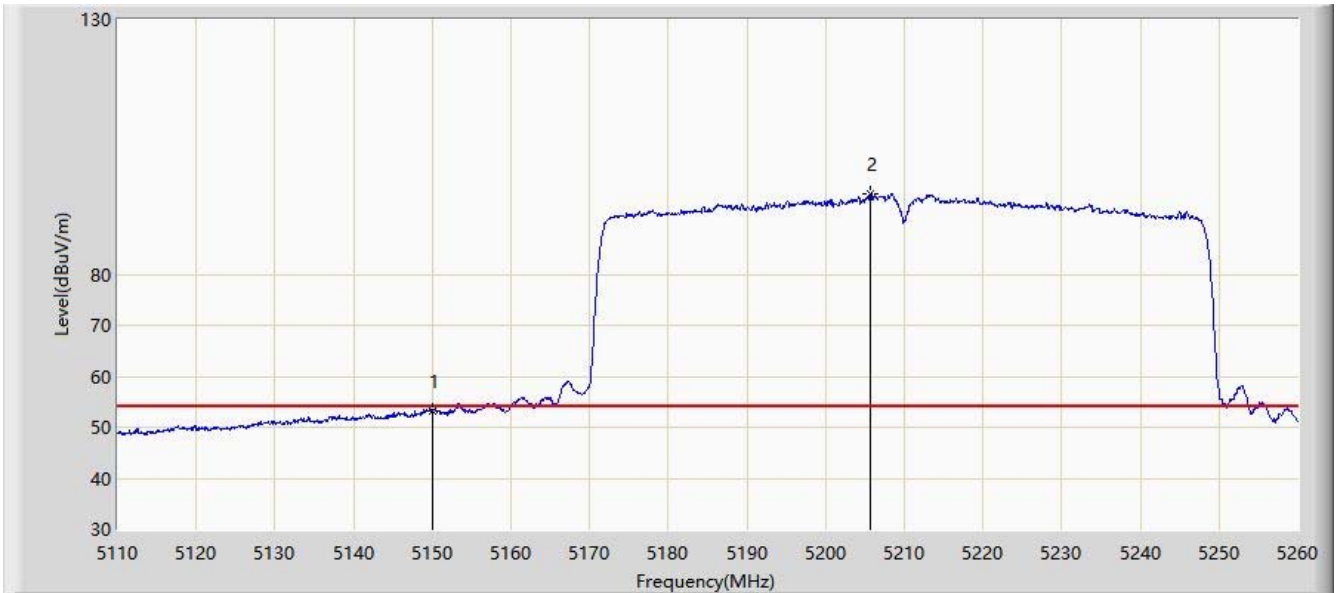


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5142.850	67.815	61.271	-6.185	74.000	6.544	PK
2			5150.000	66.421	59.969	-7.579	74.000	6.452	PK
3		*	5218.150	106.600	100.504	N/A	N/A	6.095	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 03:51
Limit: FCC_Part15.209_RE (3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5210MHz (CDD mode)	

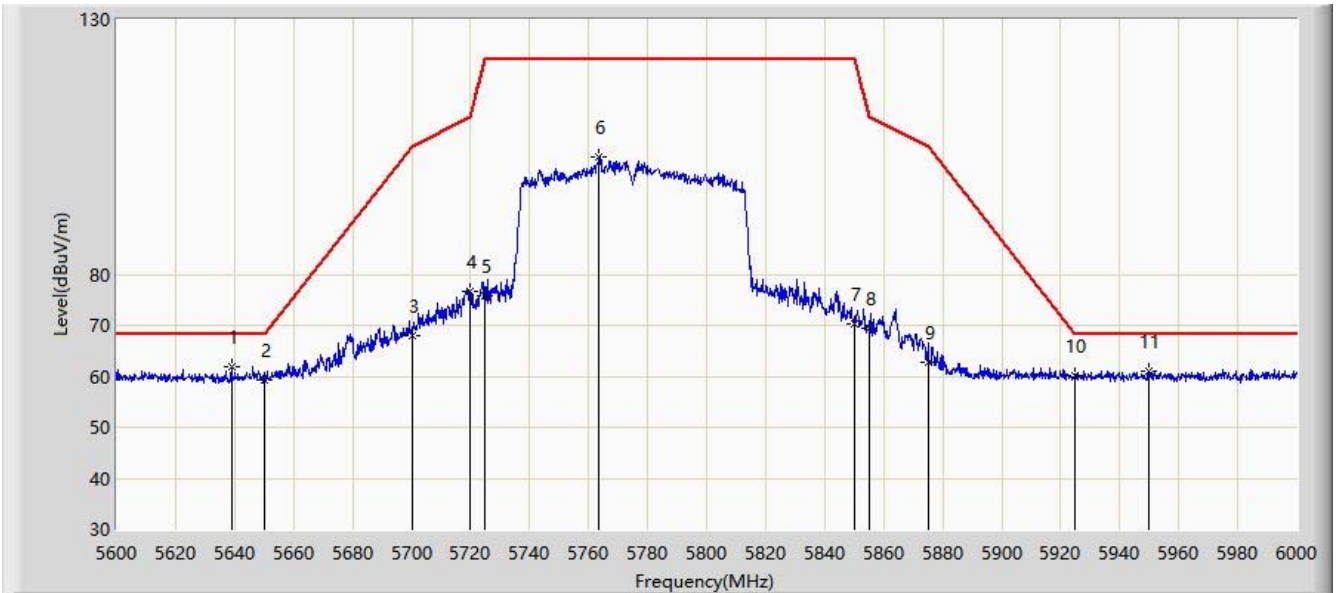


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.330	46.878	-0.670	54.000	6.452	AV
2		*	5205.700	95.829	89.567	N/A	N/A	6.262	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 04:24
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5775MHz (CDD mode)	

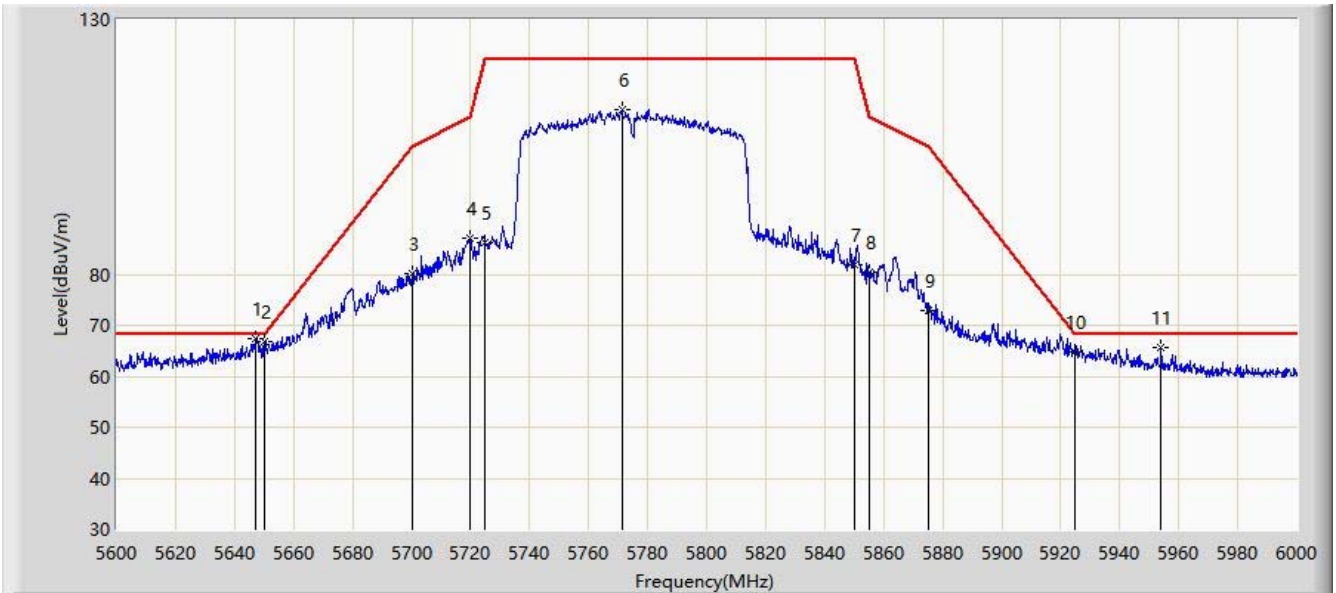


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5639.000	61.925	55.859	-6.275	68.200	6.066	PK
2			5650.000	59.389	53.130	-8.811	68.200	6.258	PK
3			5700.000	68.048	61.623	-37.152	105.200	6.426	PK
4			5720.000	76.527	70.142	-34.273	110.800	6.386	PK
5			5725.000	75.685	69.261	-46.515	122.200	6.424	PK
6			5763.400	102.916	96.110	N/A	N/A	6.806	PK
7			5850.000	70.236	63.428	-51.964	122.200	6.808	PK
8			5855.000	69.515	62.695	-41.285	110.800	6.820	PK
9			5875.000	62.825	55.907	-42.375	105.200	6.918	PK
10			5925.000	60.136	53.039	-8.064	68.200	7.097	PK
11			5949.800	60.889	53.813	-7.311	68.200	7.077	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Site: AC1	Time: 2020/08/08 - 04:23
Limit: FCC_Part15.407_Band Edge(3m)	Engineer: Dillon Diao
Probe: AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11ac-VHT80 at channel 5775MHz (CDD mode)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5647.200	67.437	61.237	-0.763	68.200	6.201	PK
2			5650.000	66.796	60.537	-1.404	68.200	6.258	PK
3			5700.000	80.215	73.790	-24.985	105.200	6.426	PK
4			5720.000	86.967	80.582	-23.833	110.800	6.386	PK
5			5725.000	86.122	79.698	-36.078	122.200	6.424	PK
6			5771.400	112.268	105.542	N/A	N/A	6.727	PK
7			5850.000	81.847	75.039	-40.353	122.200	6.808	PK
8			5855.000	80.398	73.578	-30.402	110.800	6.820	PK
9			5875.000	72.914	65.996	-32.286	105.200	6.918	PK
10			5925.000	64.794	57.697	-3.406	68.200	7.097	PK
11			5954.000	65.623	58.582	-2.577	68.200	7.041	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

## 6.10. AC Conducted Emissions Measurement

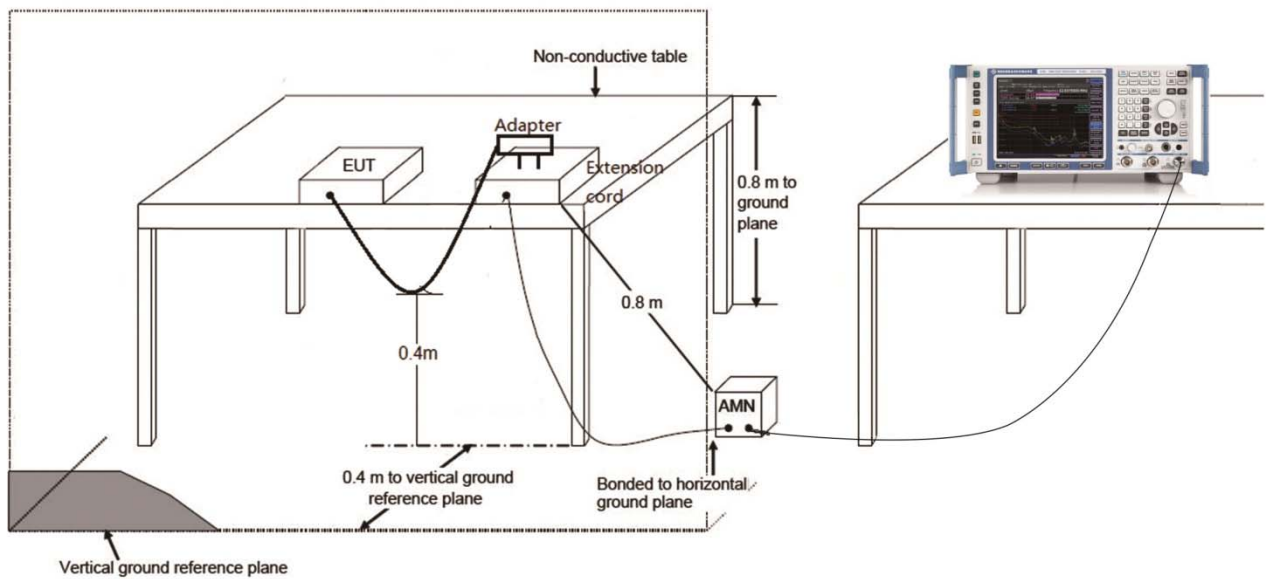
### 6.10.1. TestLimit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

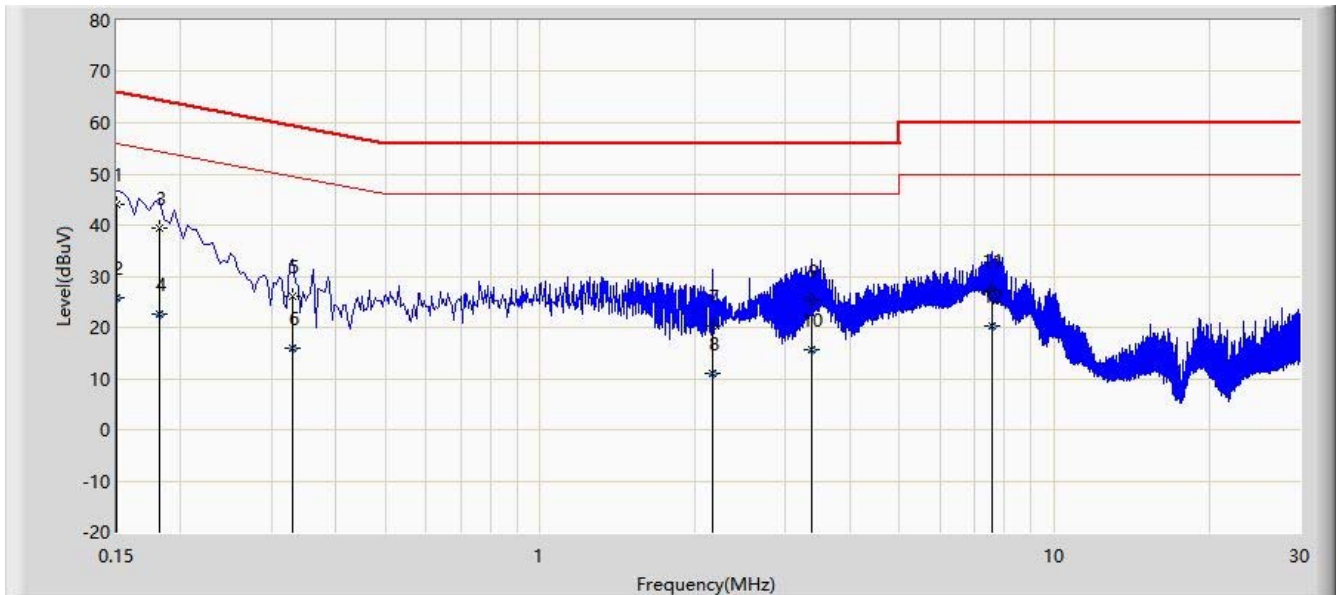
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 6.10.2. Test Setup



### 6.10.3. Test Result

Site: SR2	Time: 2020/09/01 - 16:01
Limit: FCC_Part15.207_CE_AC Power	Engineer: Linda Wei
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
<b>Test Mode:</b> Transmit by 802.11a at Channel 5180MHz	

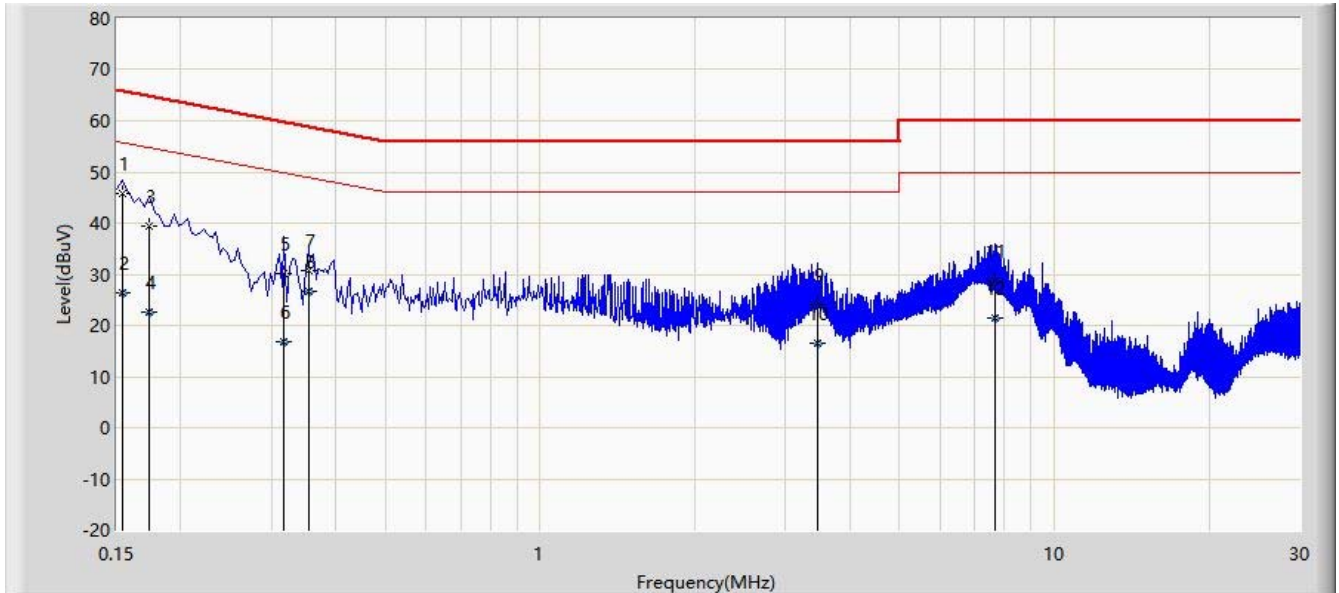


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.150	44.040	34.427	-21.960	66.000	9.613	QP
2			0.150	25.862	16.249	-30.138	56.000	9.613	AV
3			0.182	39.380	29.751	-25.013	64.394	9.630	QP
4			0.182	22.502	12.873	-31.891	54.394	9.630	AV
5			0.330	26.141	16.477	-33.310	59.451	9.664	QP
6			0.330	16.022	6.357	-33.429	49.451	9.664	AV
7			2.170	20.205	10.438	-35.795	56.000	9.767	QP
8			2.170	11.156	1.390	-34.844	46.000	9.767	AV
9			3.370	25.177	15.370	-30.823	56.000	9.808	QP
10			3.370	15.790	5.982	-30.210	46.000	9.808	AV
11			7.574	27.296	17.322	-32.704	60.000	9.975	QP
12			7.574	20.209	10.235	-29.791	50.000	9.975	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2020/09/01 - 16:06
Limit: FCC_Part15.207_CE_AC Power	Engineer: Linda Wei
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: SUBSCRIBER END EQUIPMENT HGW	Power: AC 120V/60Hz
<b>Test Mode:</b> Transmit by 802.11a at Channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.154	45.714	36.109	-20.068	65.781	9.606	QP
2			0.154	26.290	16.685	-29.491	55.781	9.606	AV
3			0.174	39.297	29.681	-25.470	64.767	9.616	QP
4			0.174	22.564	12.948	-32.203	54.767	9.616	AV
5			0.318	30.217	20.564	-29.542	59.759	9.653	QP
6			0.318	16.815	7.162	-32.944	49.759	9.653	AV
7			0.354	30.835	21.176	-28.034	58.868	9.660	QP
8			0.354	26.655	16.996	-22.214	48.868	9.660	AV
9			3.474	24.010	14.204	-31.990	56.000	9.806	QP
10			3.474	16.494	6.688	-29.506	46.000	9.806	AV
11			7.646	28.559	18.590	-31.441	60.000	9.969	QP
12			7.646	21.353	11.384	-28.647	50.000	9.969	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



## 7. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC rules.

————— The End —————

## **Appendix A - Test Setup Photograph**

Refer to "2008RSU008-UT" file.

## **Appendix B - EUT Photograph**

Refer to "2008RSU008-UE" file.