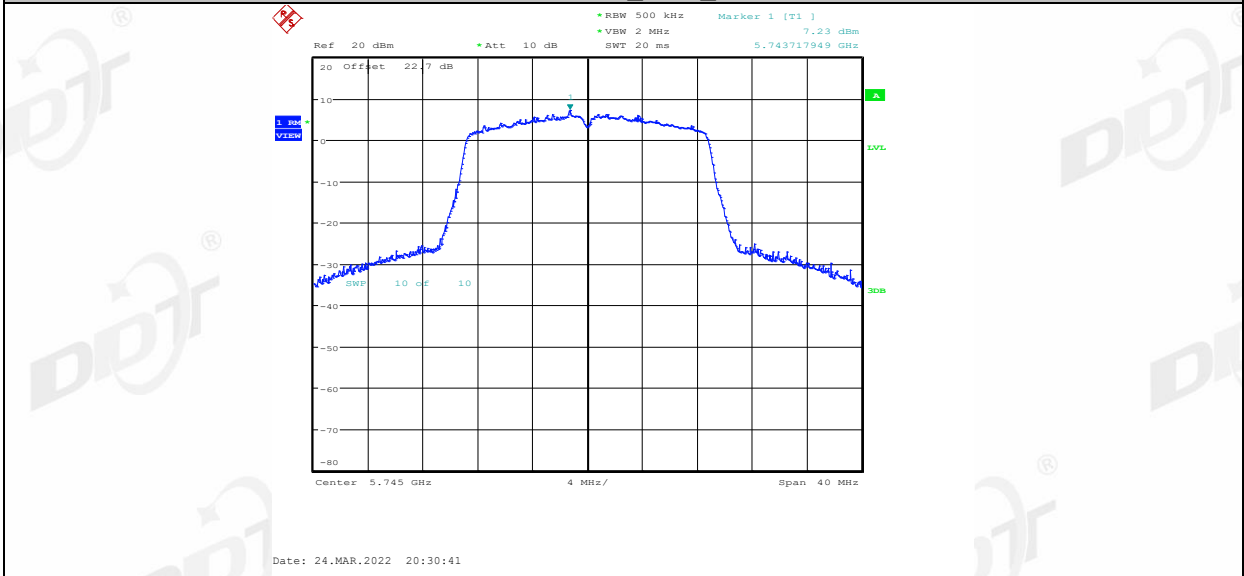
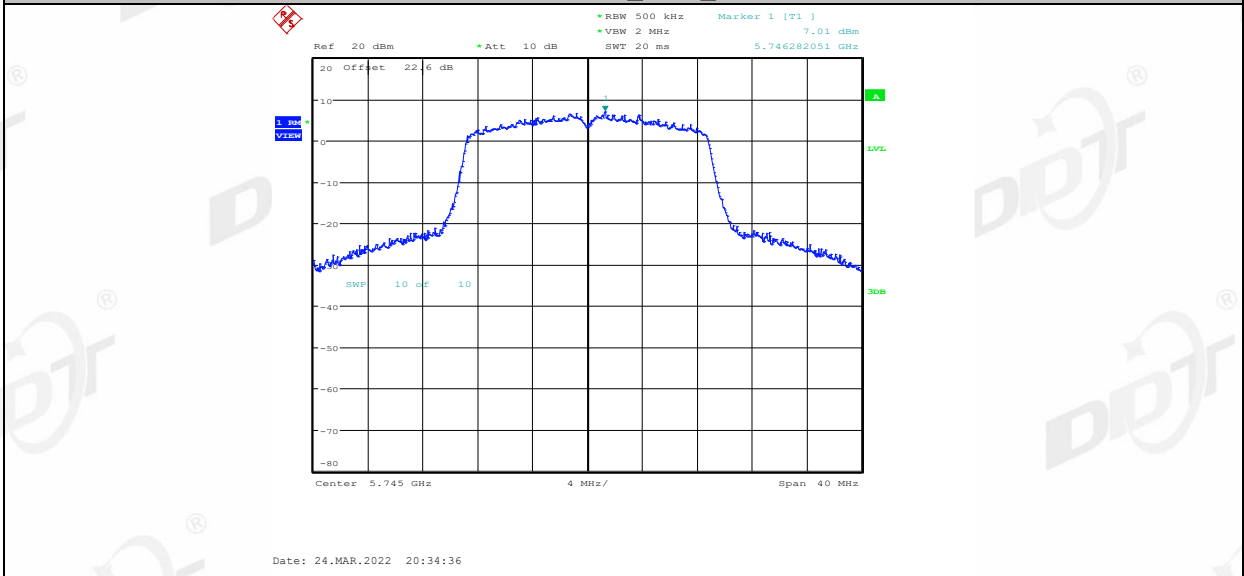


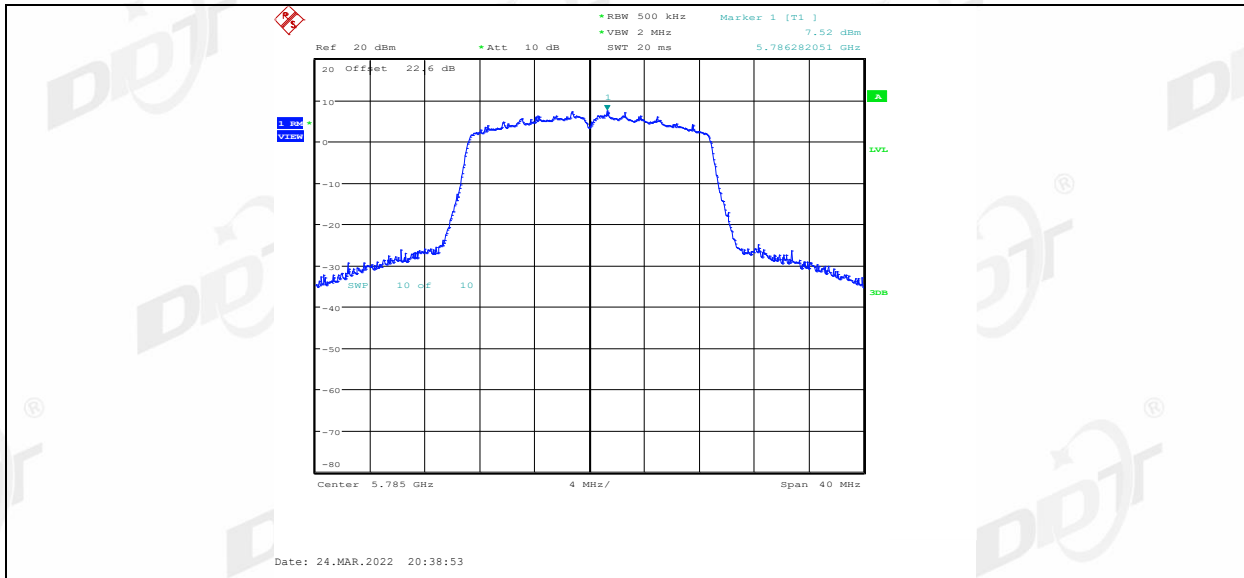
11N20MIMO\_Ant1\_5745



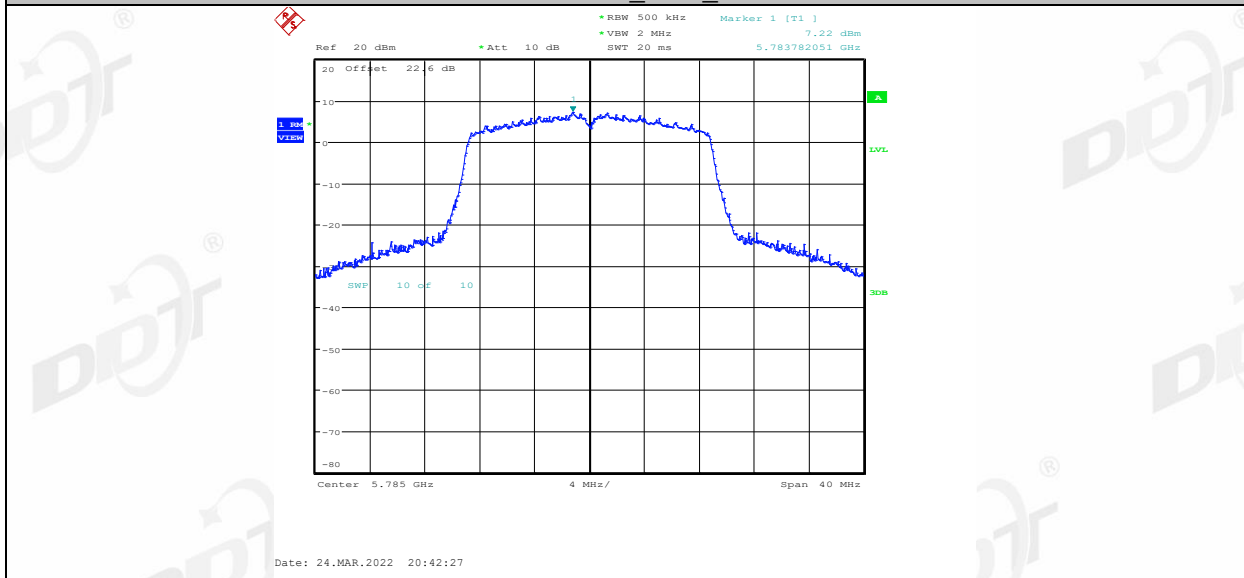
11N20MIMO\_Ant2\_5745



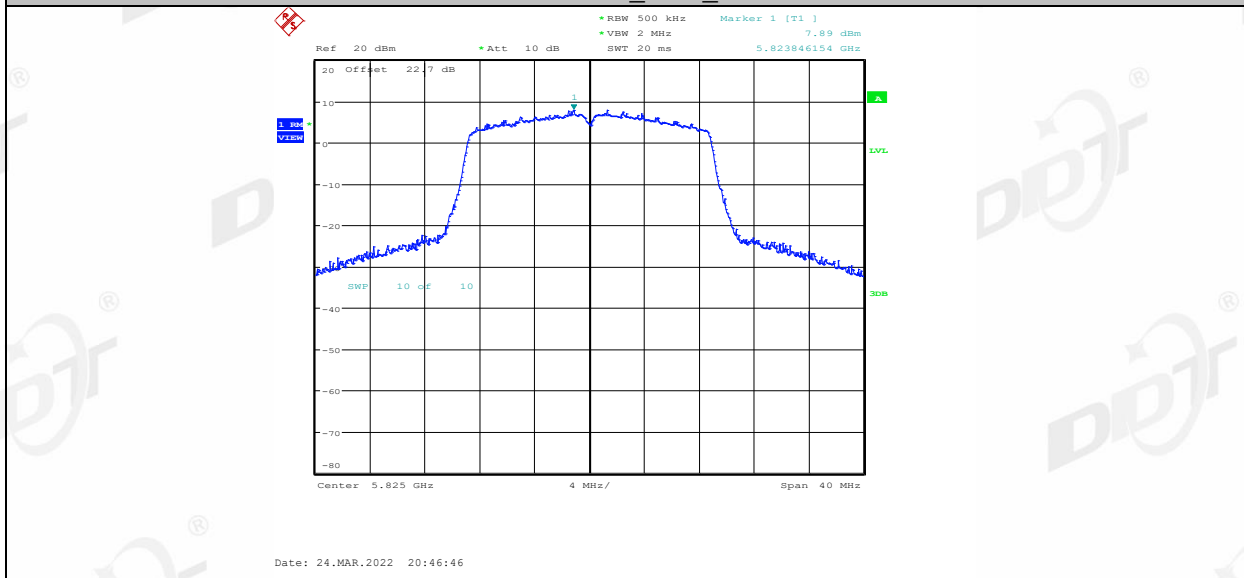
11N20MIMO\_Ant1\_5785



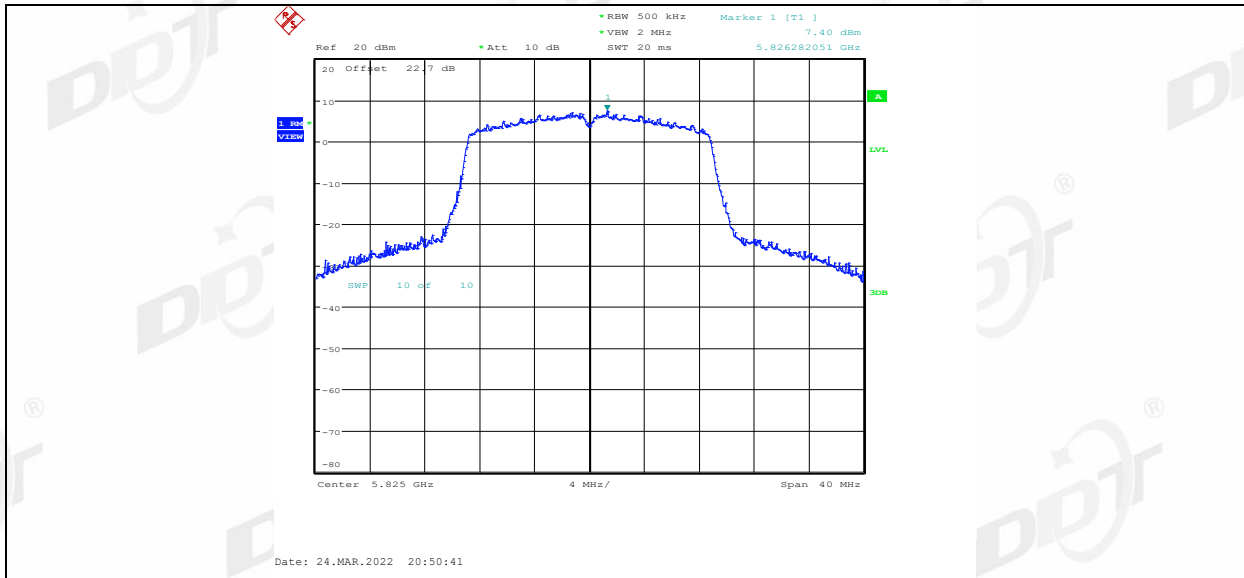
11N20MIMO\_Ant2\_5785



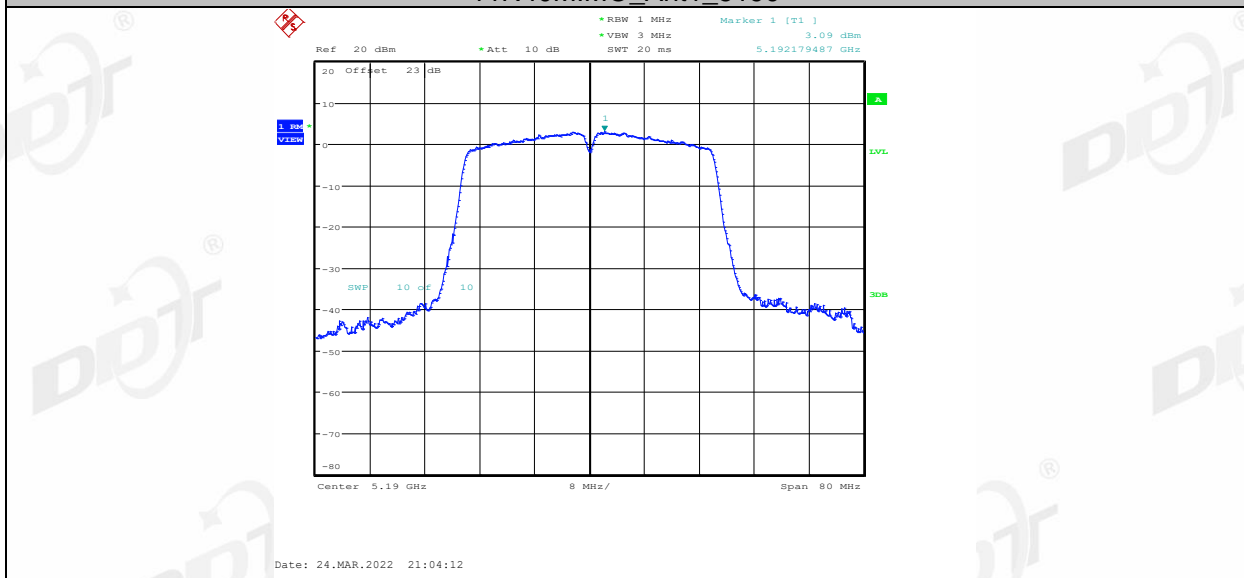
11N20MIMO\_Ant1\_5825



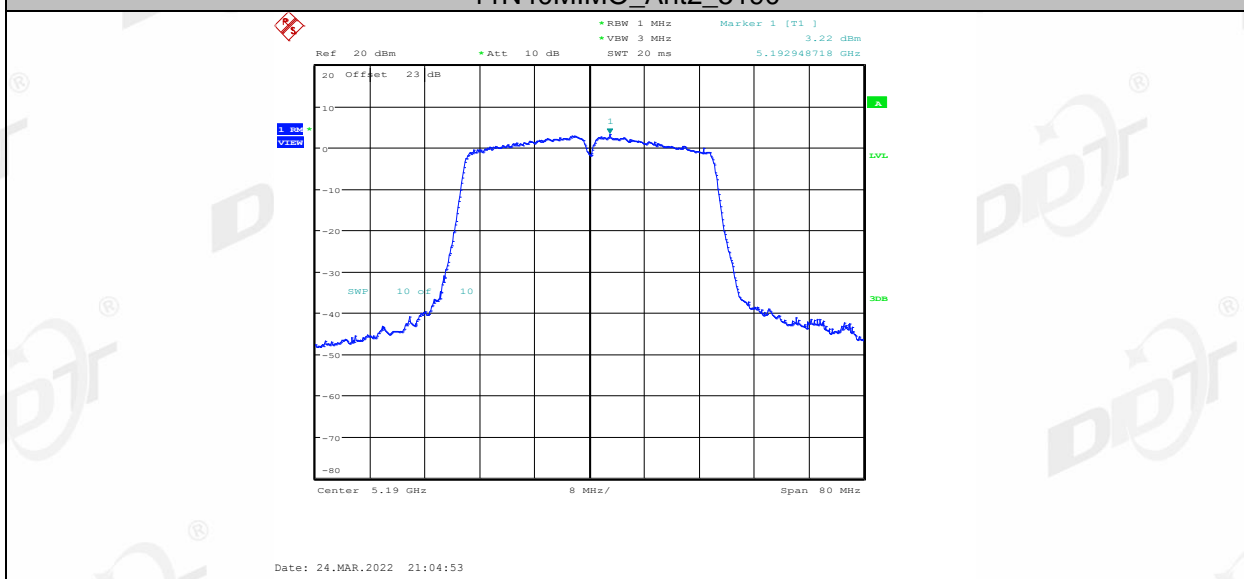
11N20MIMO\_Ant2\_5825



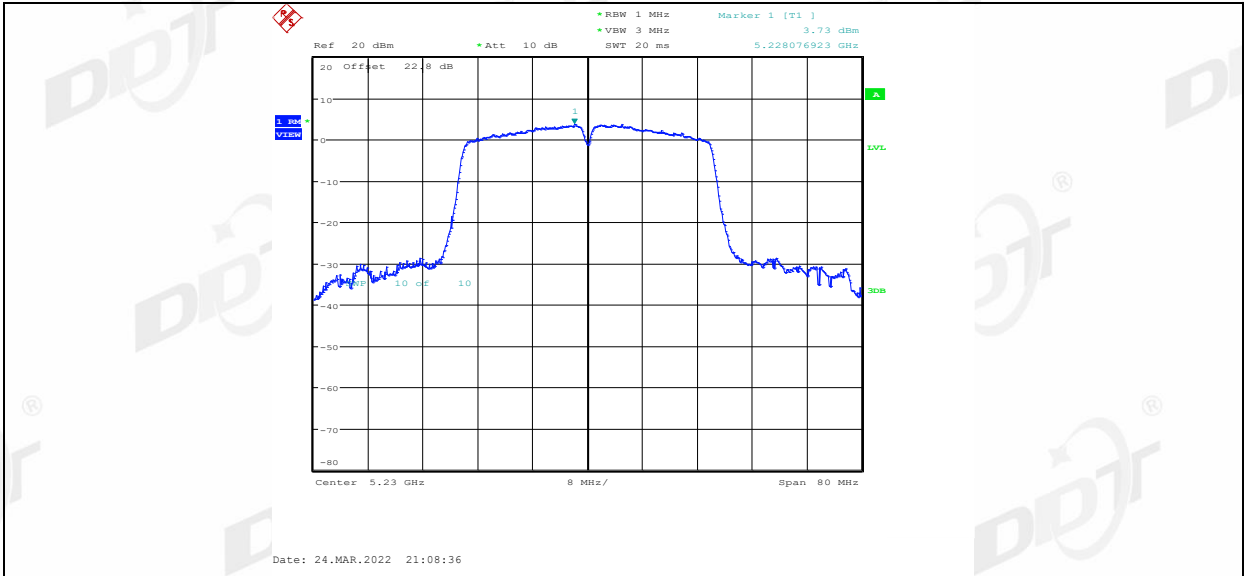
11N40MIMO\_Ant1\_5190



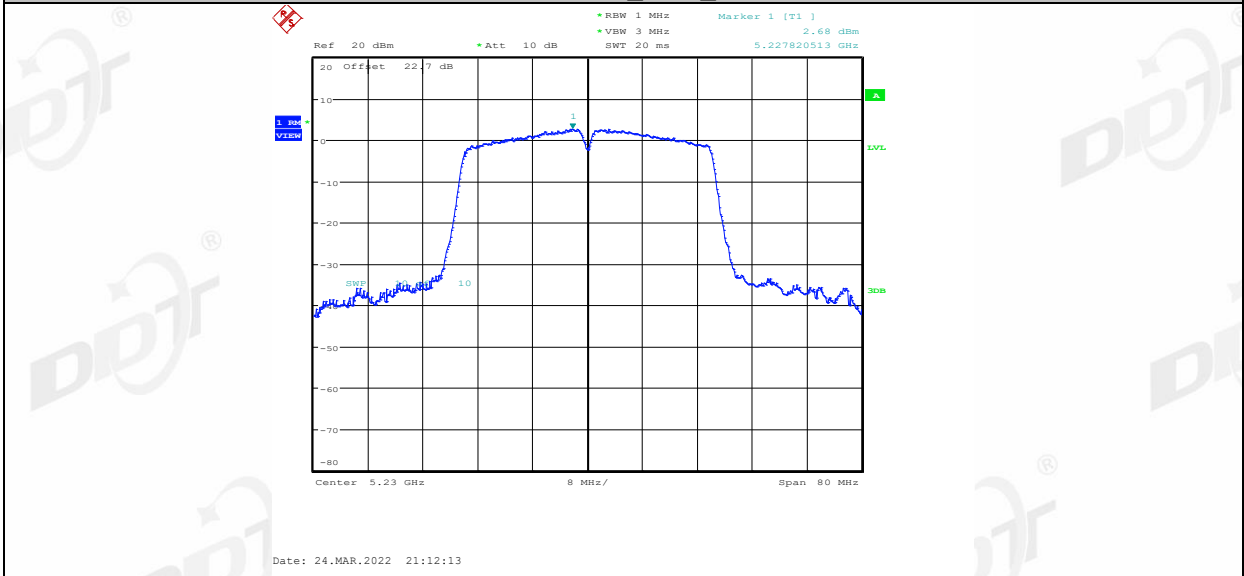
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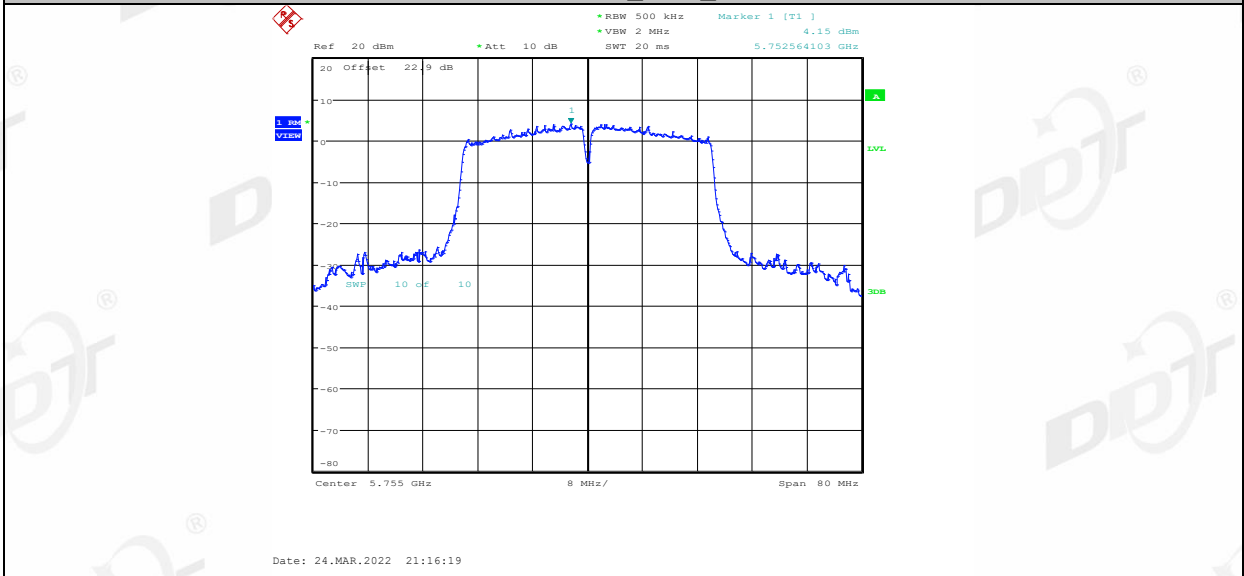
11N40MIMO\_Ant1\_5230



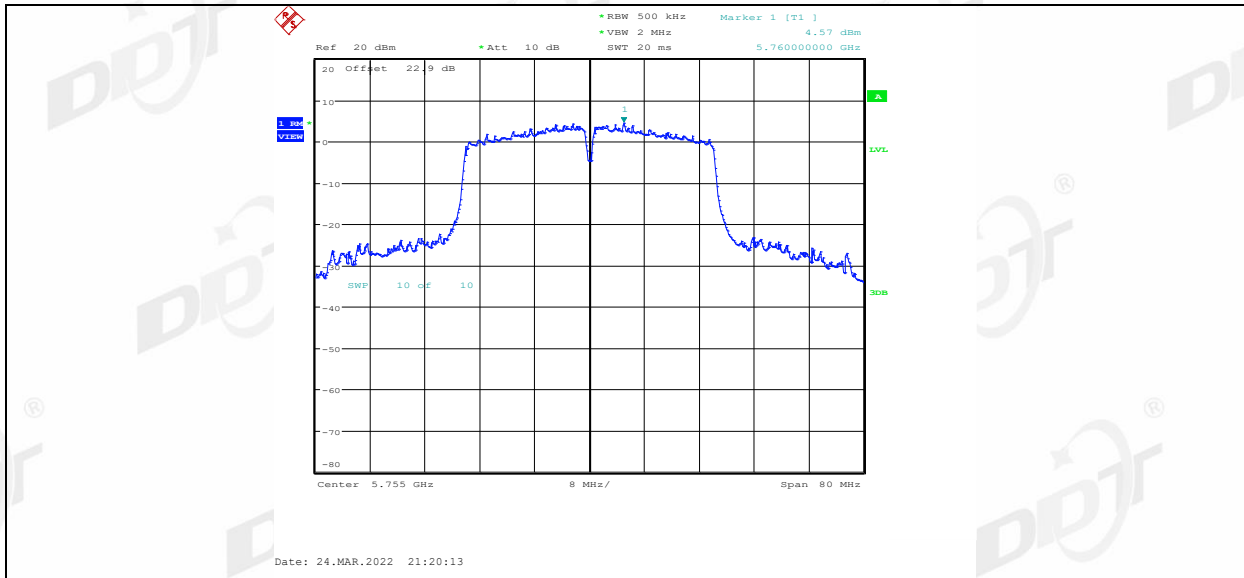
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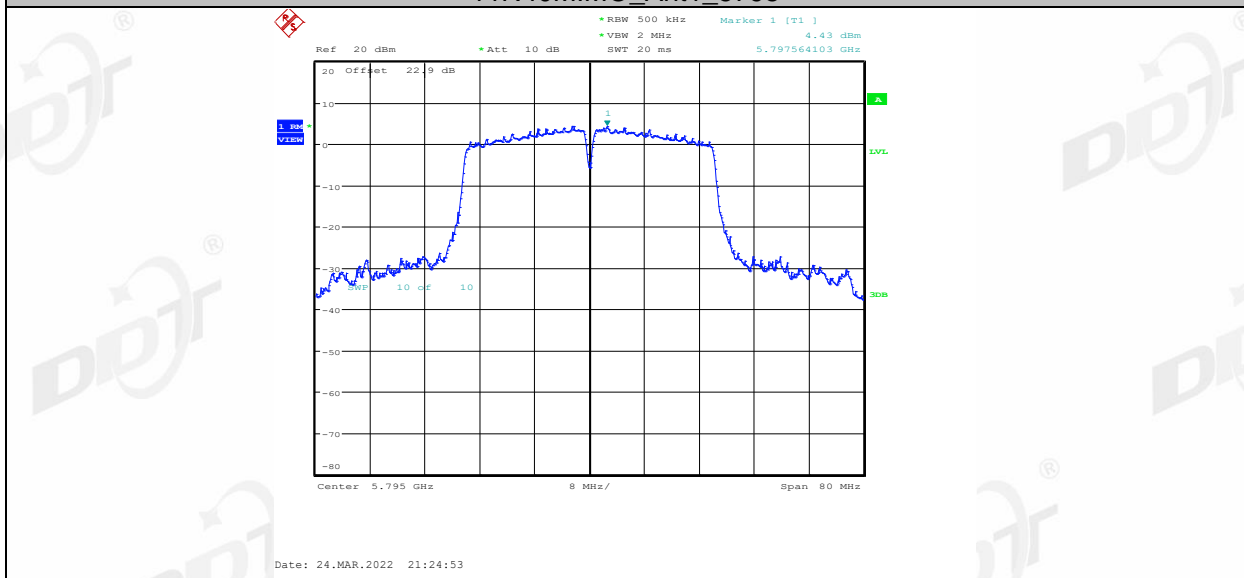
11N40MIMO\_Ant1\_5755



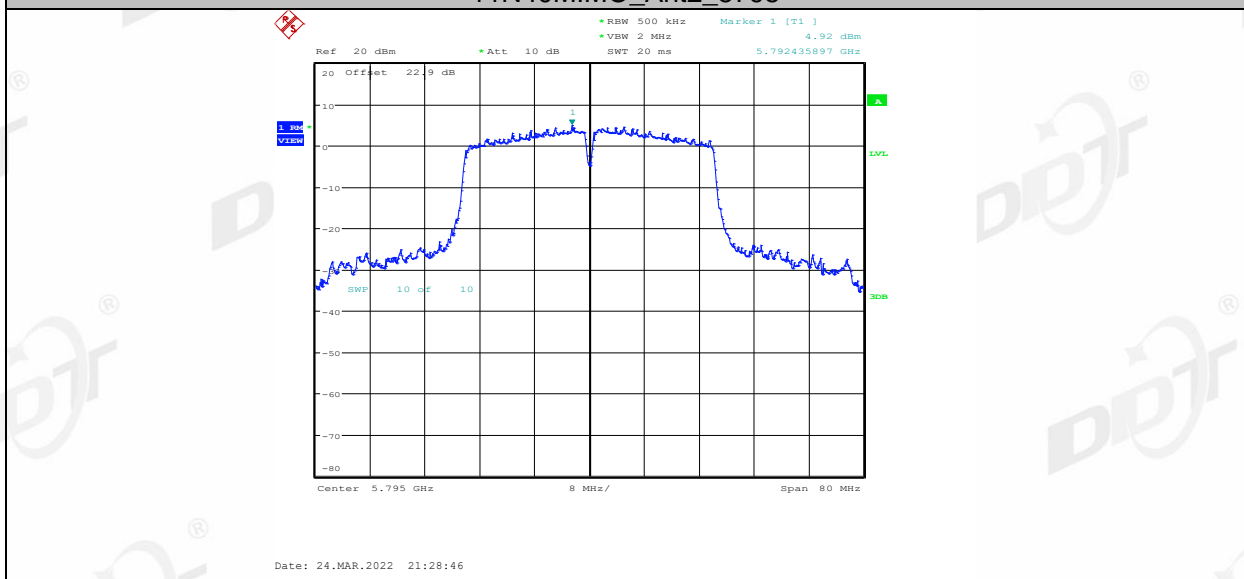
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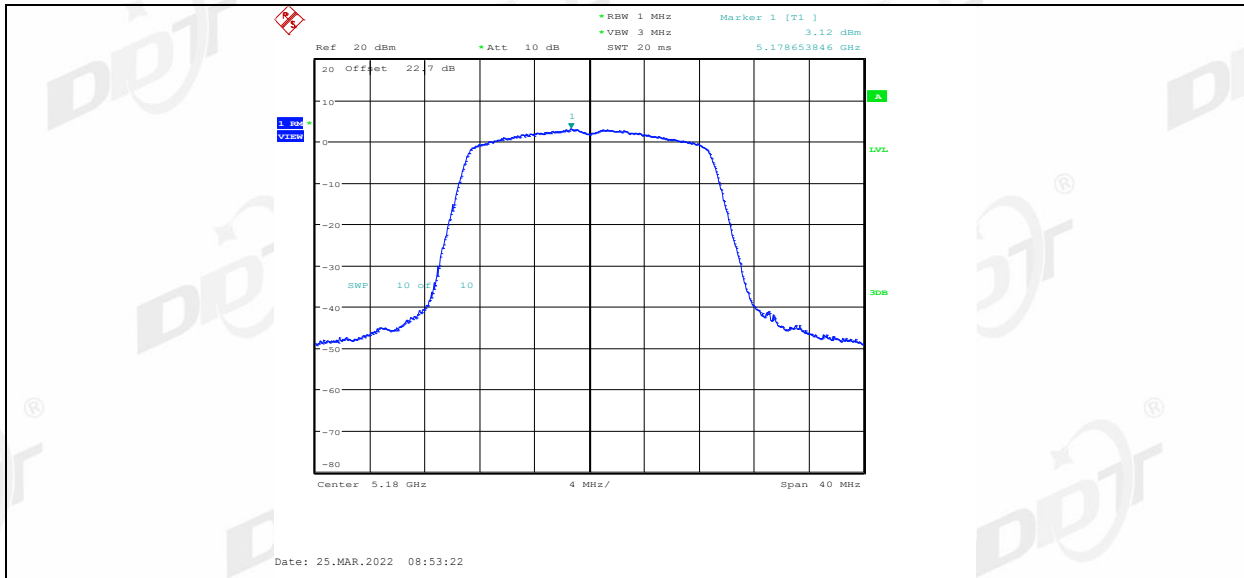
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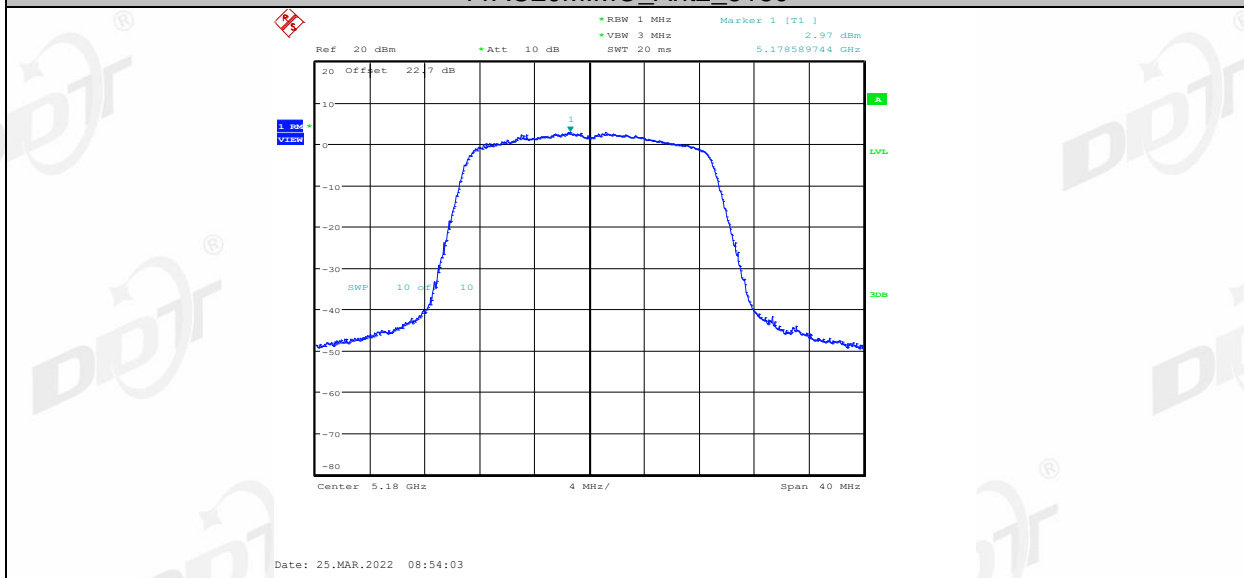
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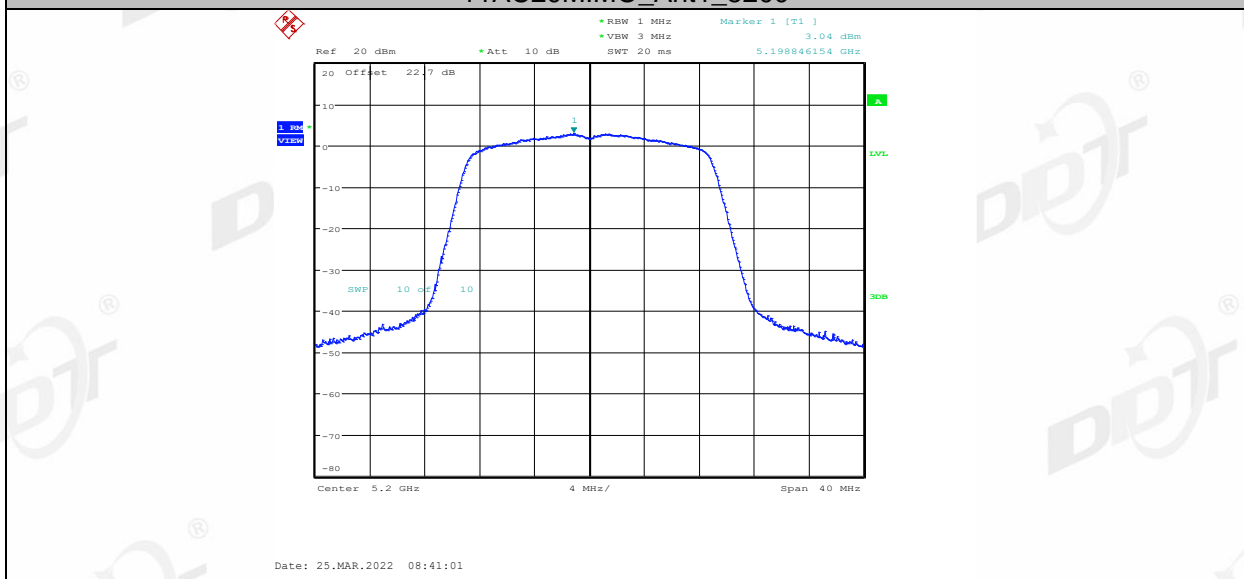
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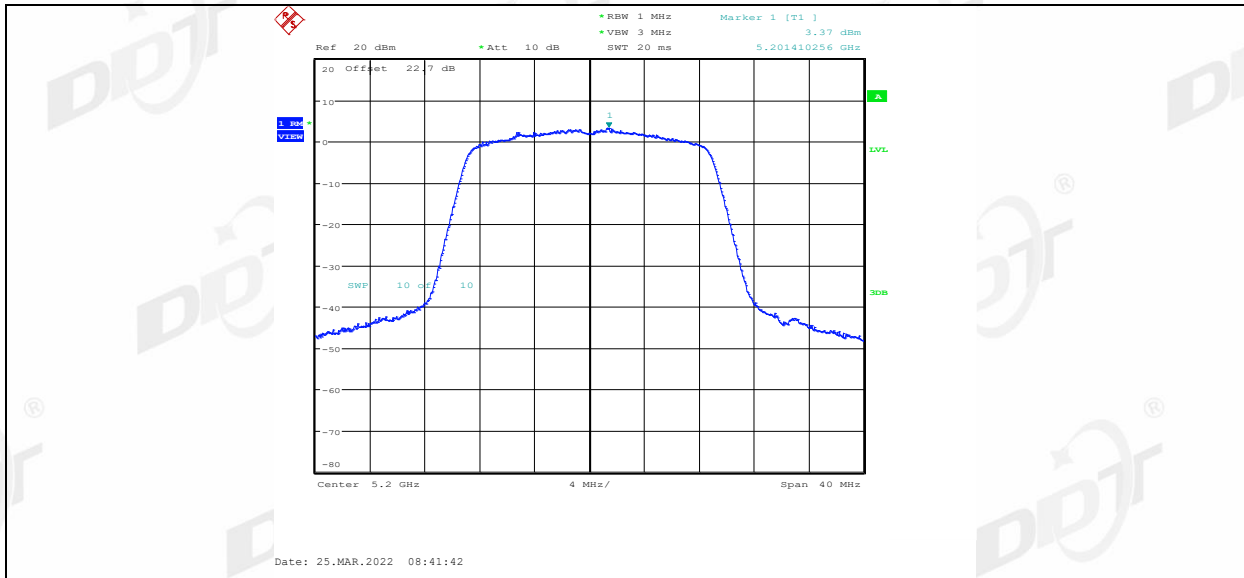
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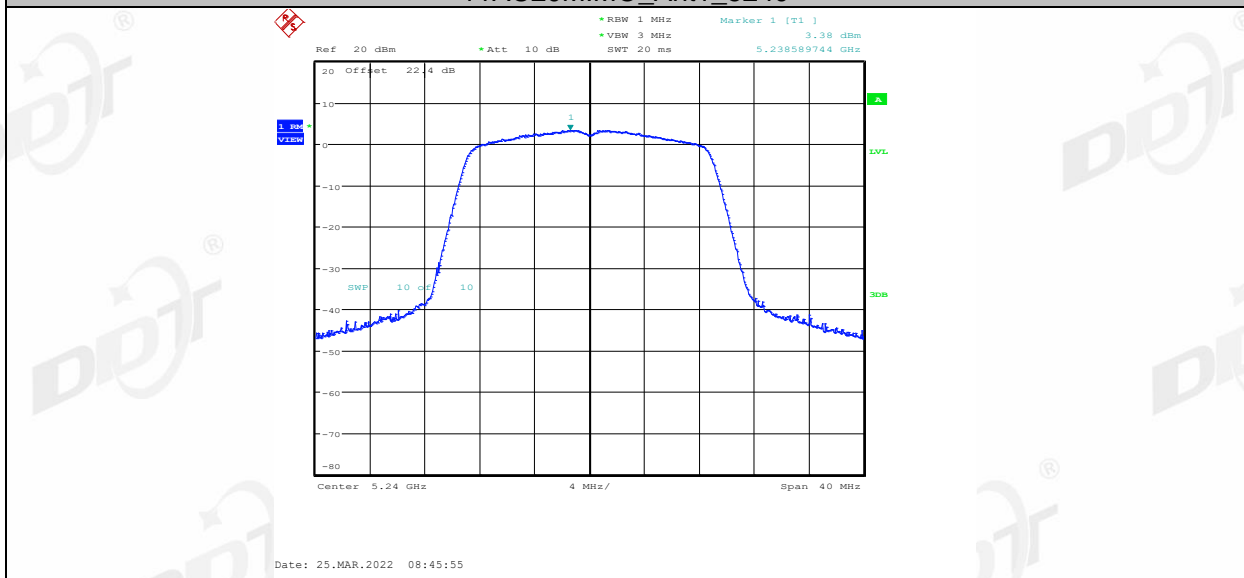
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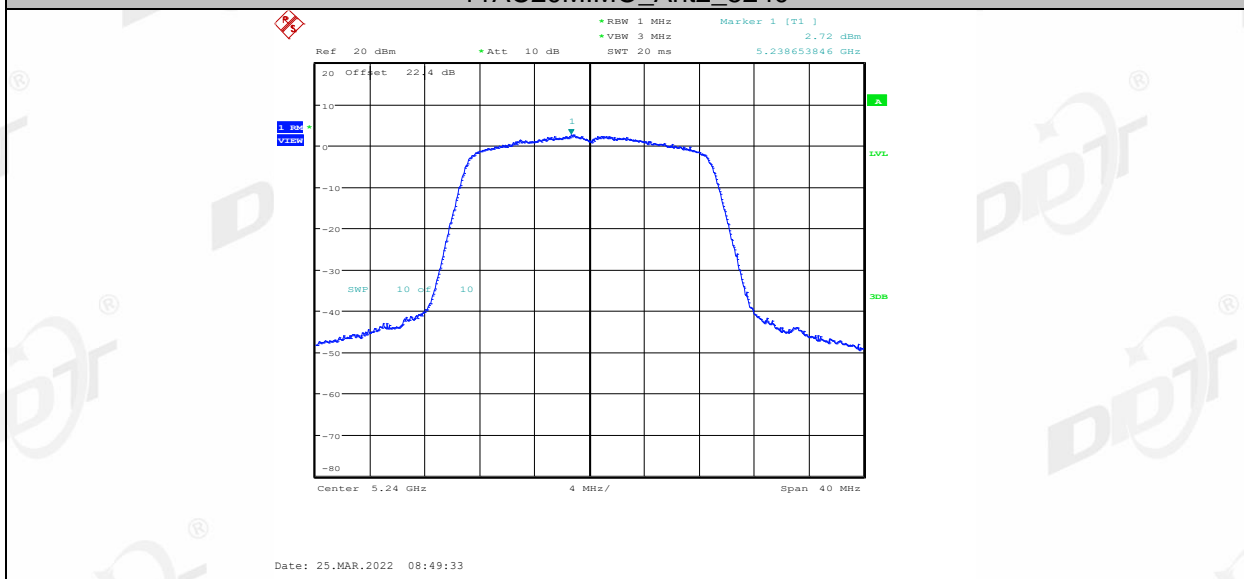
11AC20MIMO\_Ant2\_5200



11AC20MIMO\_Ant1\_5240



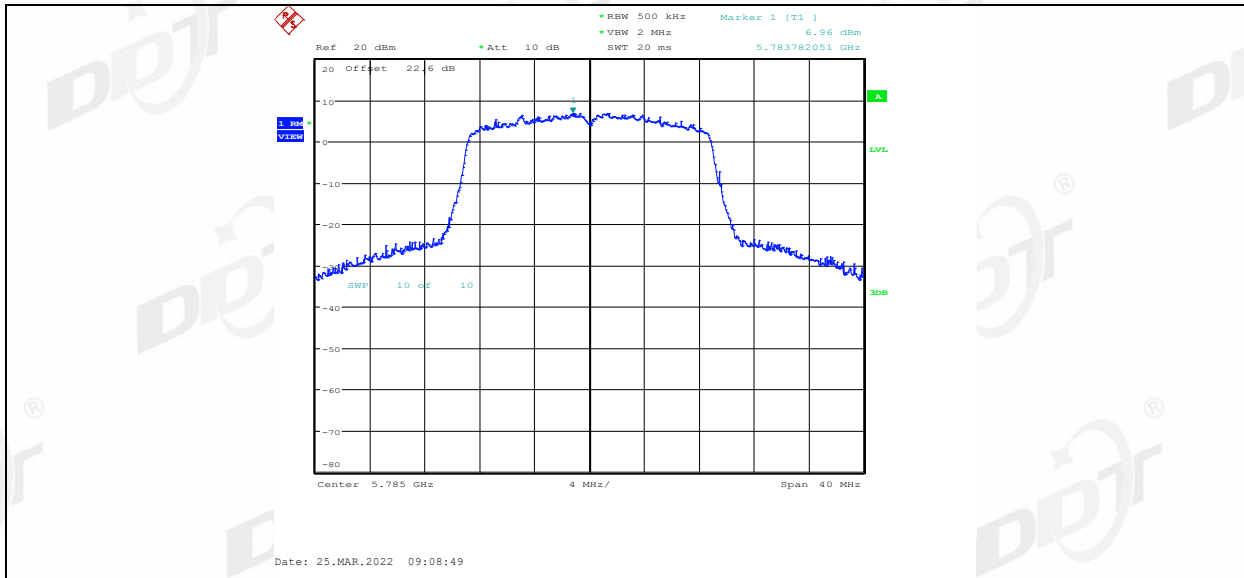
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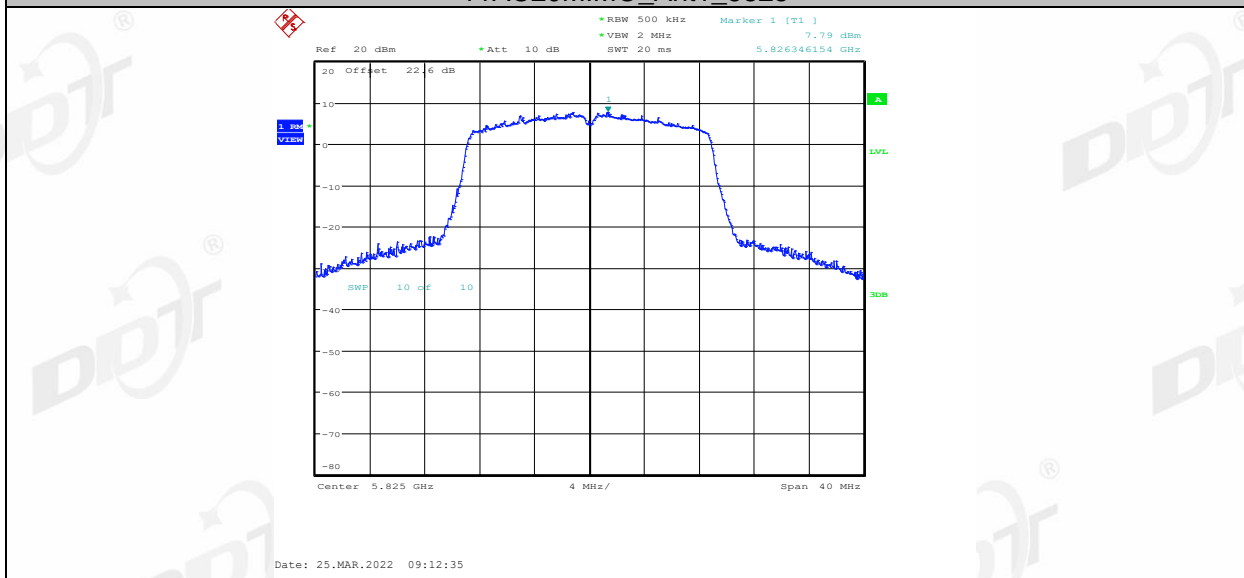
11AC20MIMO\_Ant1\_5745



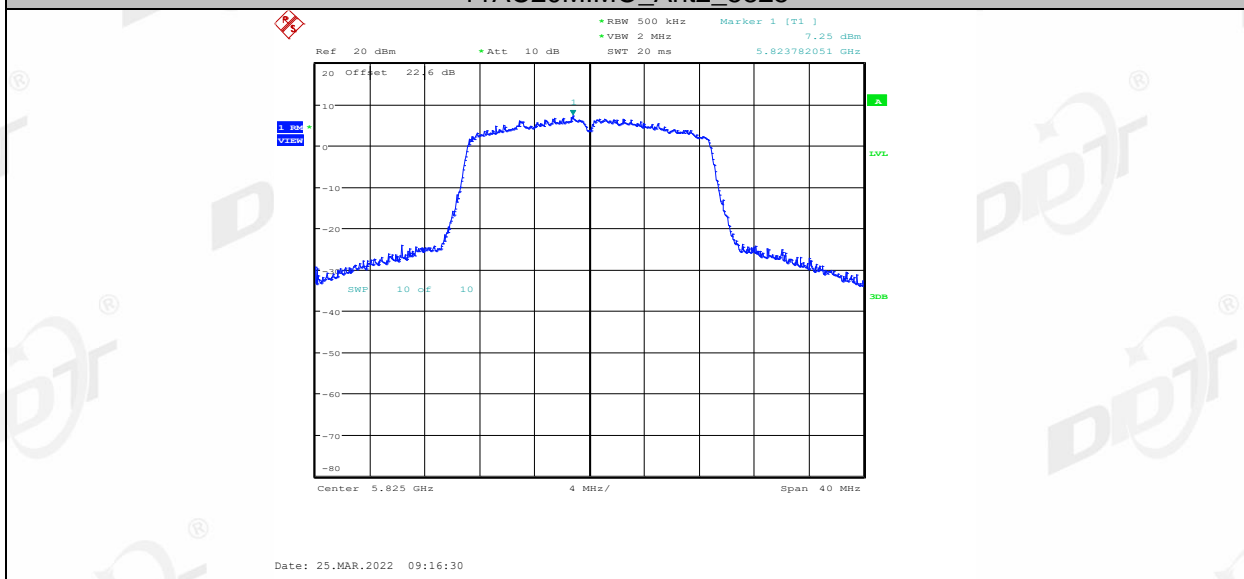




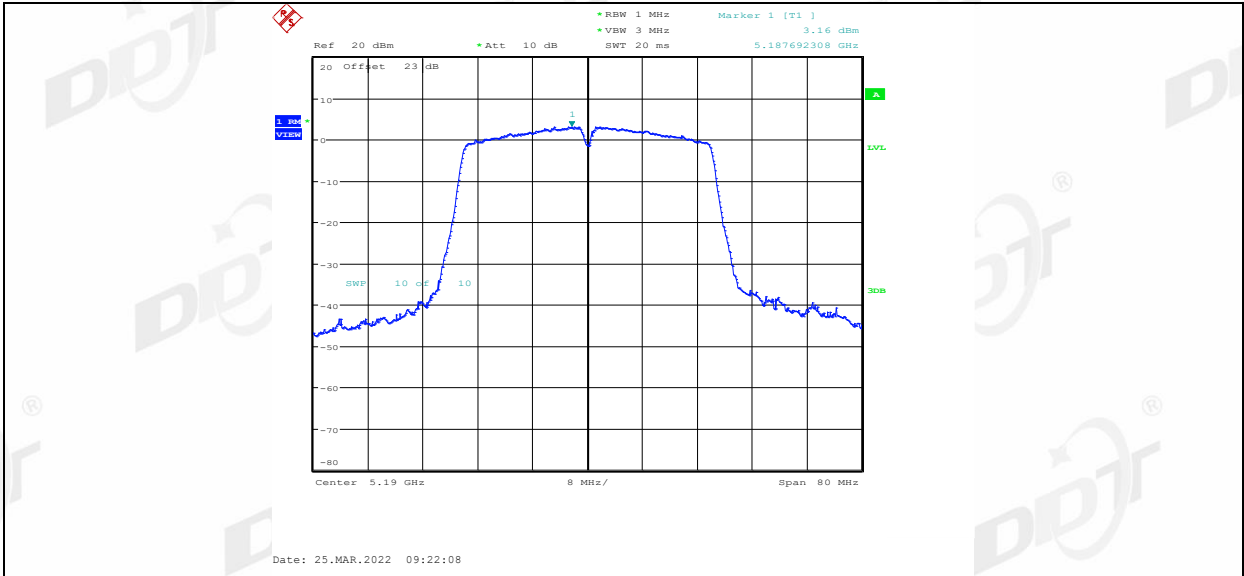
11AC20MIMO\_Ant1\_5825



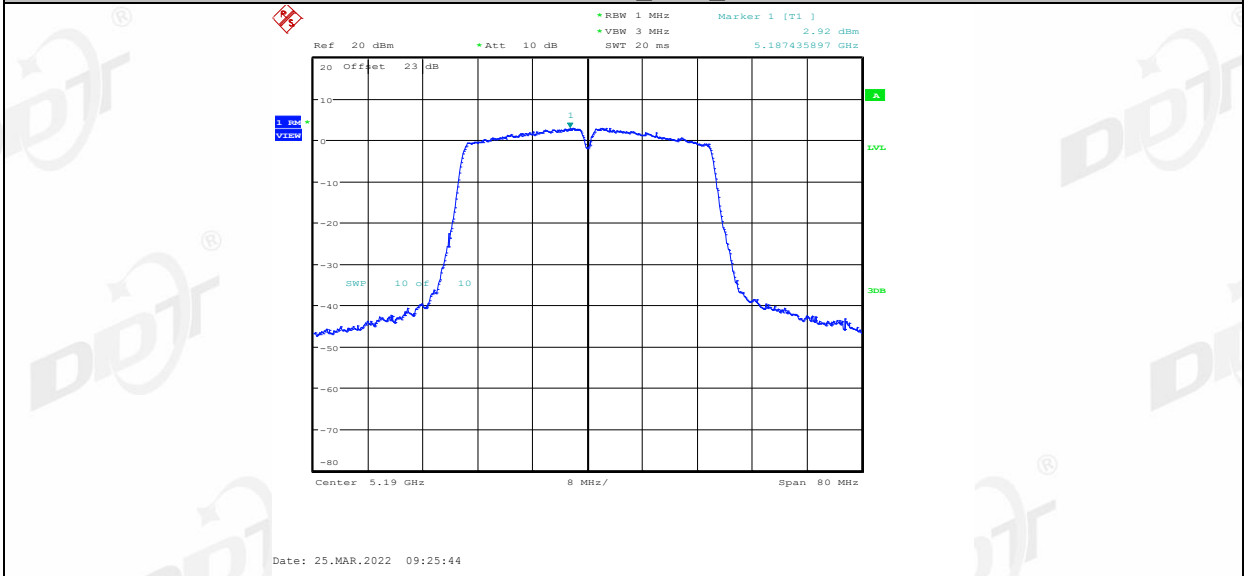
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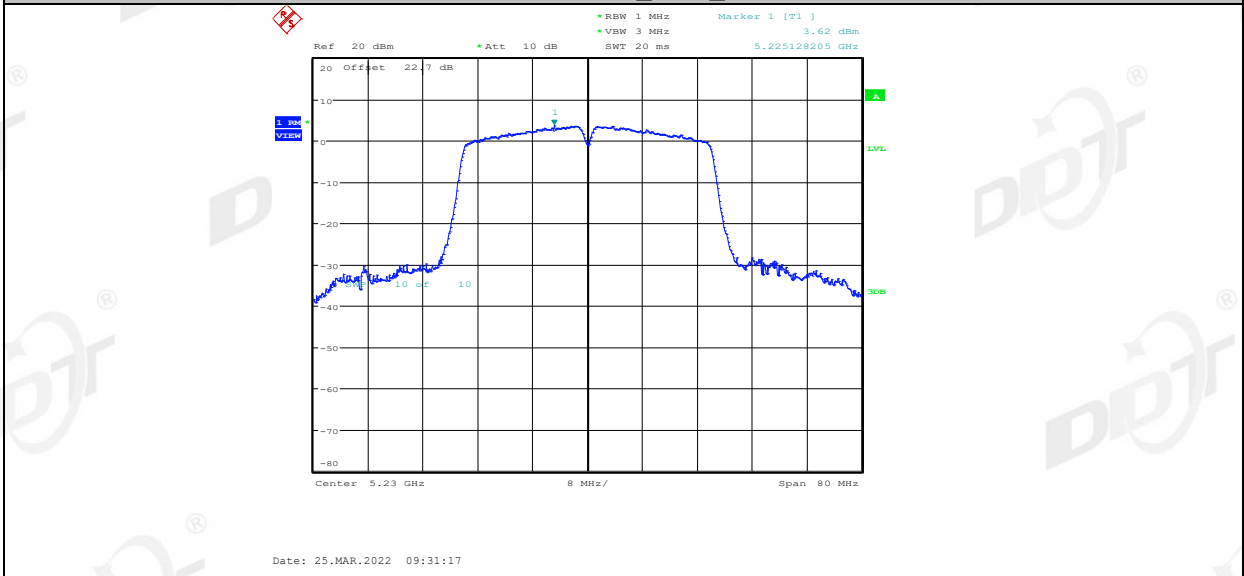
11AC40MIMO\_Ant1\_5190



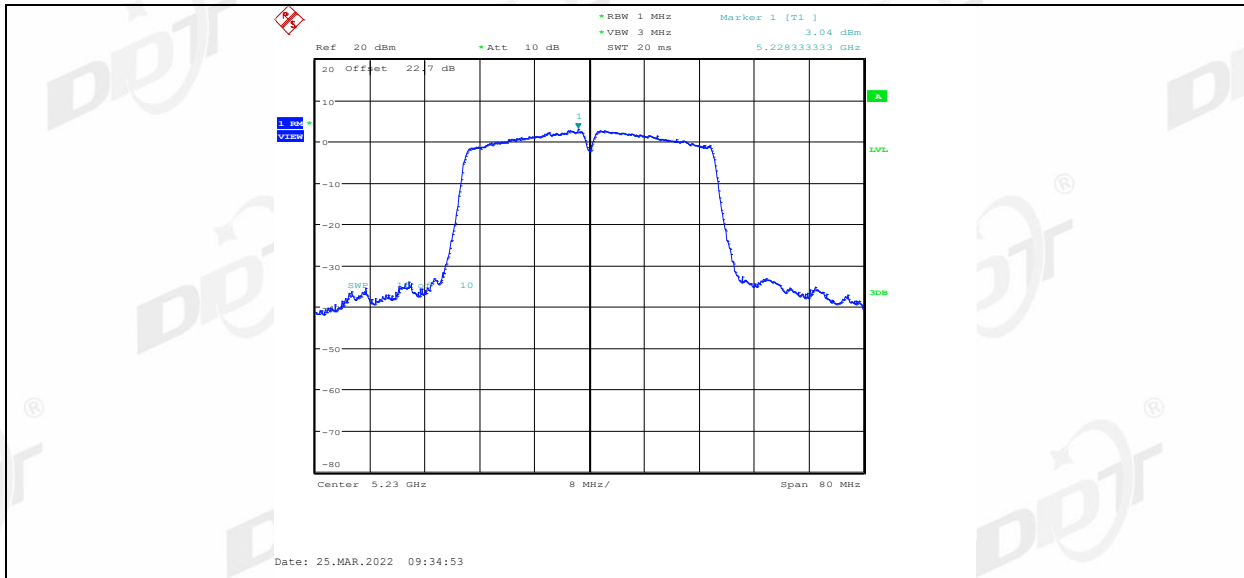
11AC40MIMO\_Ant2\_5190



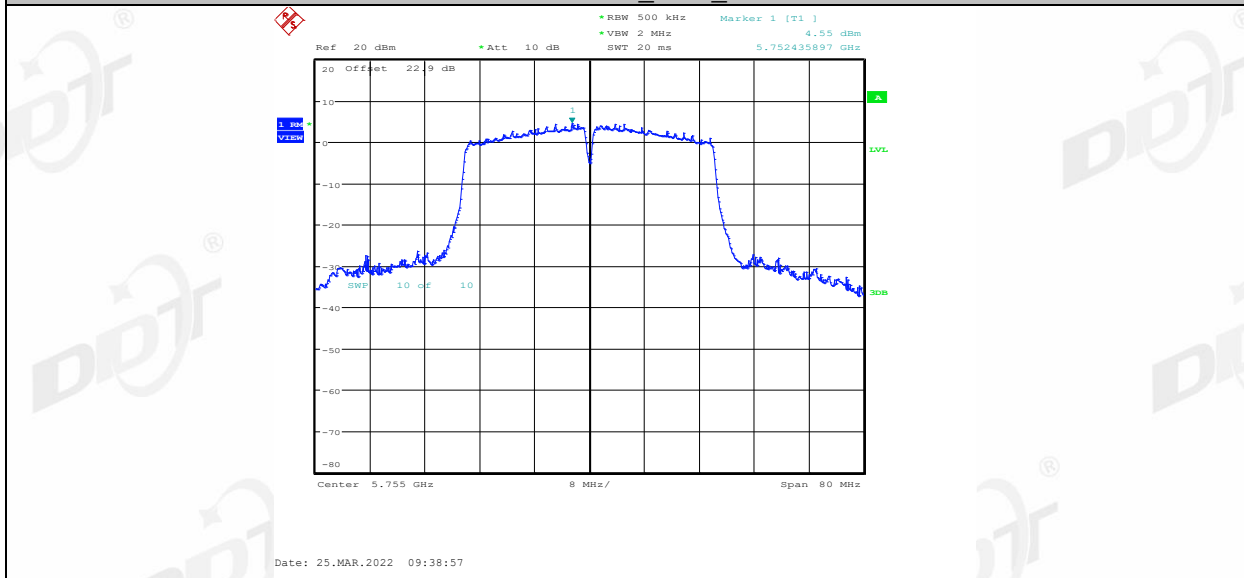
11AC40MIMO\_Ant1\_5230



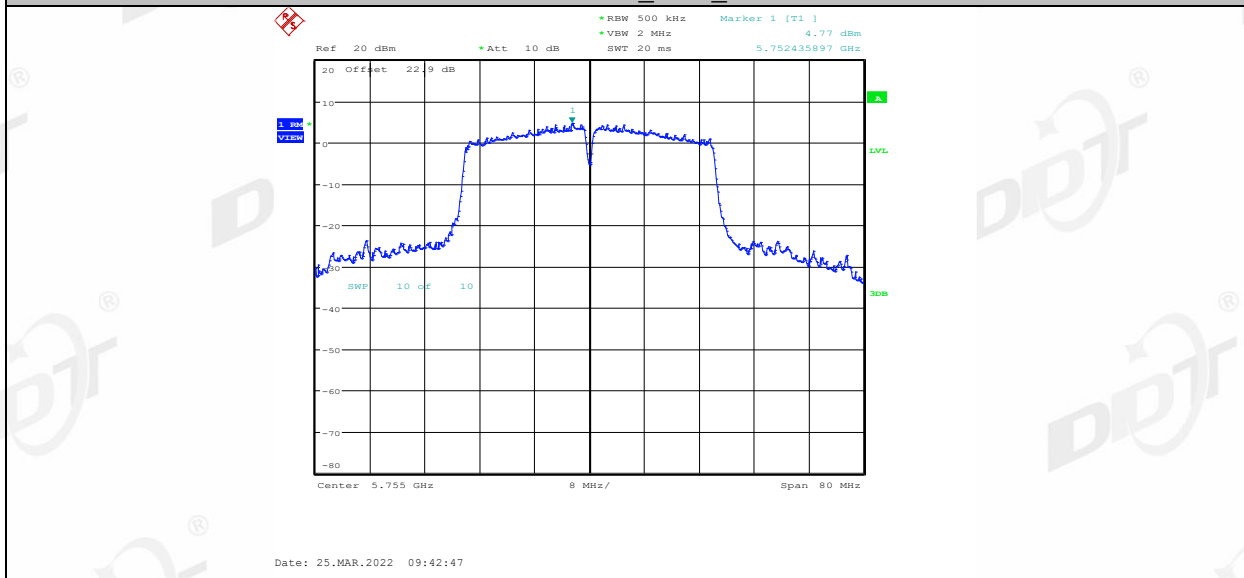
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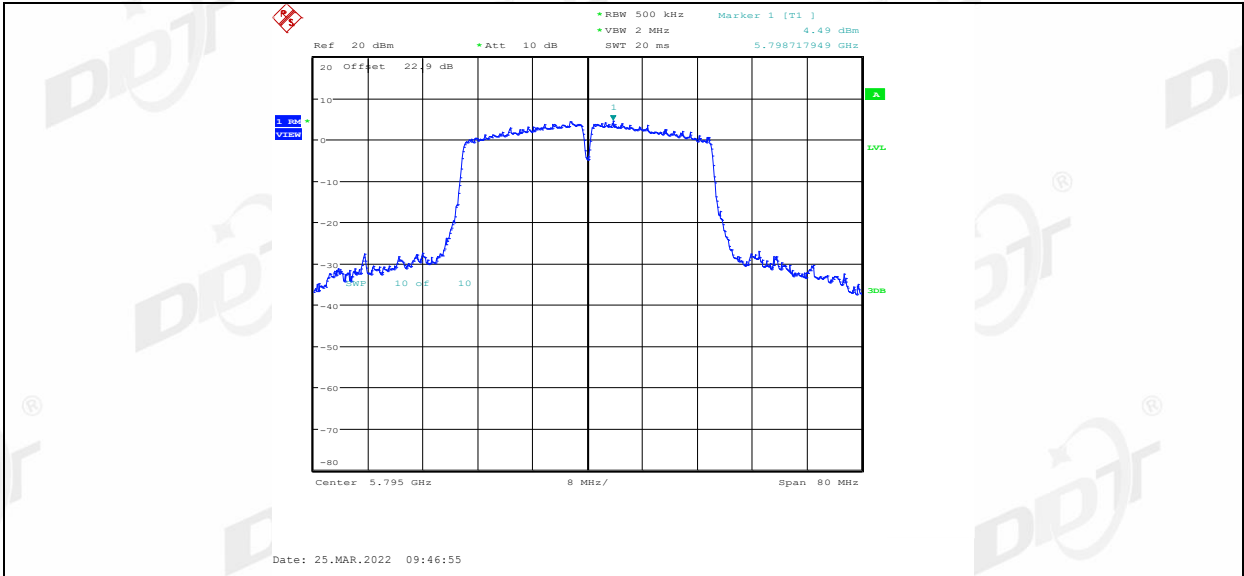
11AC40MIMO\_Ant1\_5755



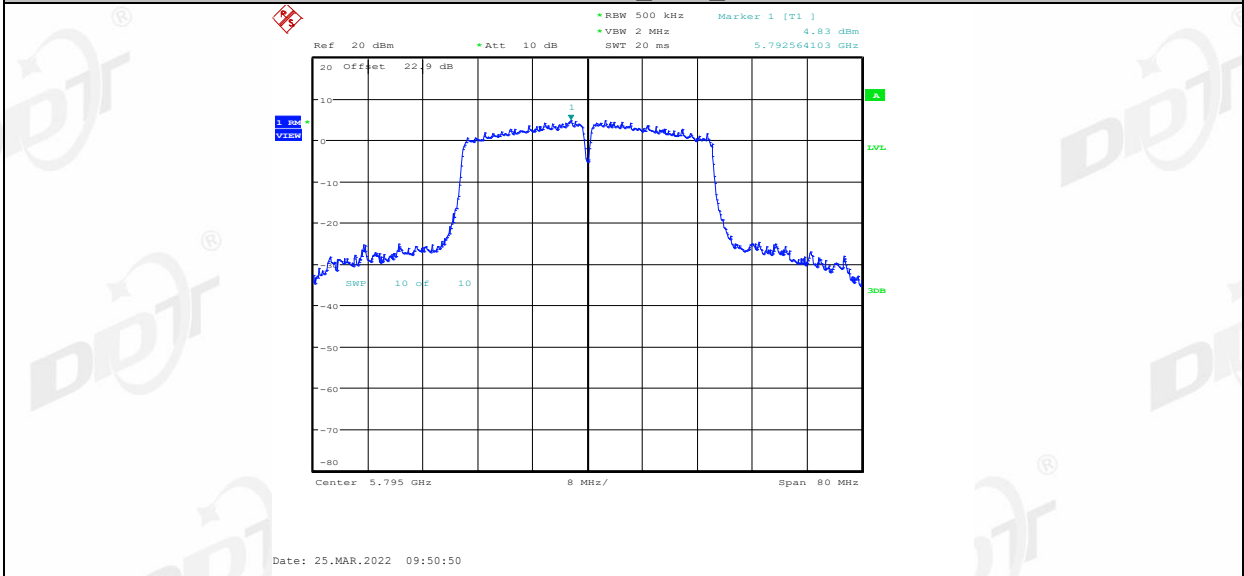
11AC40MIMO\_Ant2\_5755



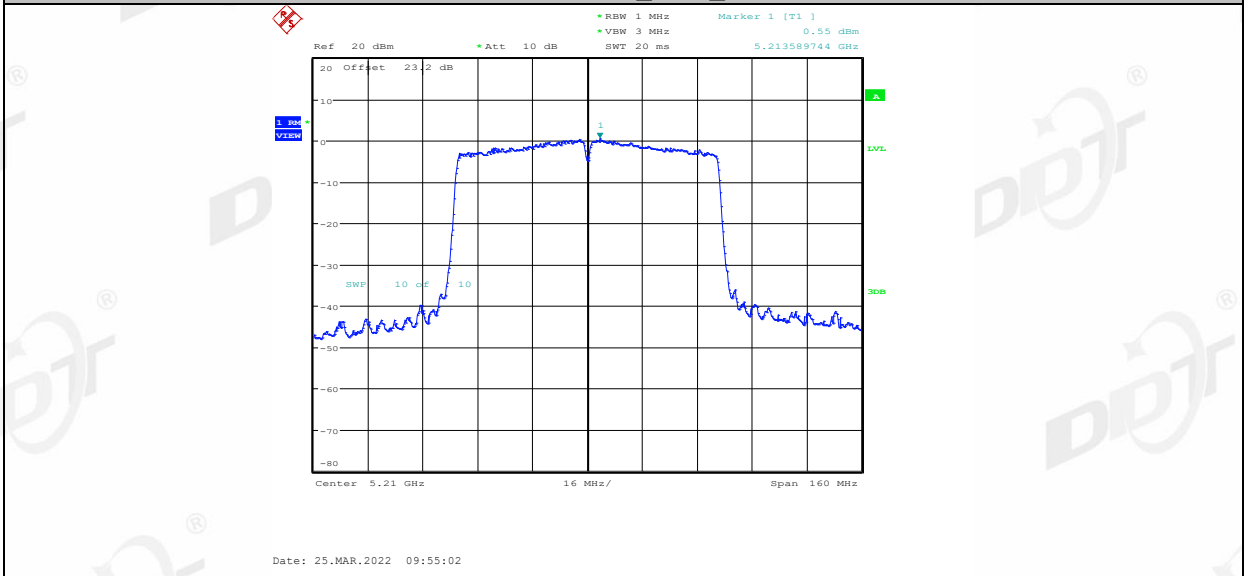
11AC40MIMO\_Ant1\_5795



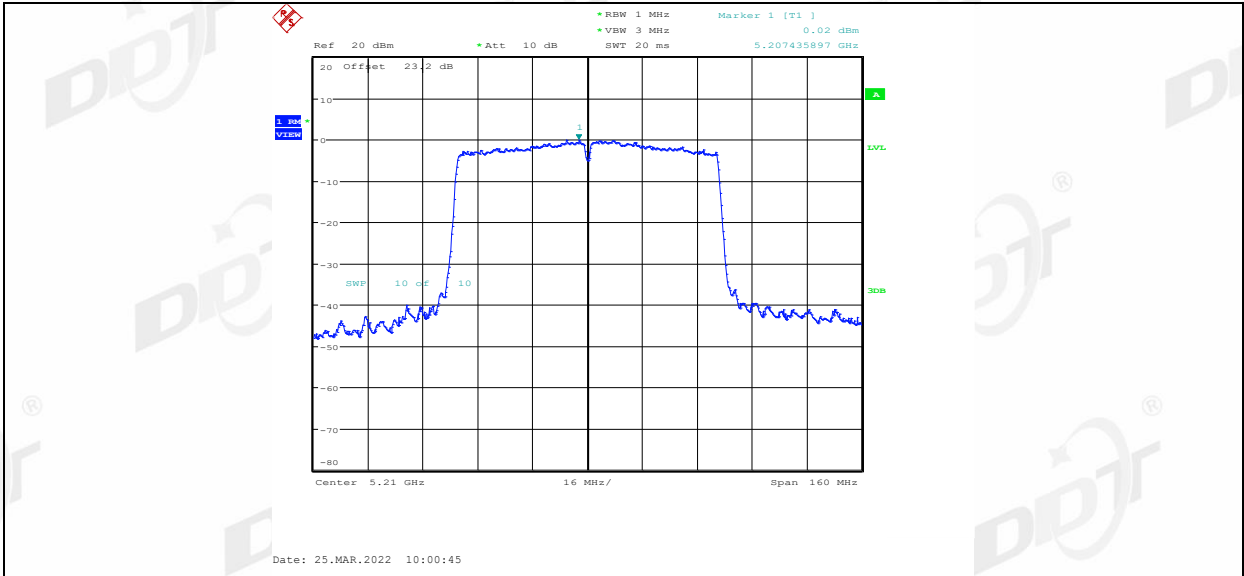
11AC40MIMO\_Ant2\_5795



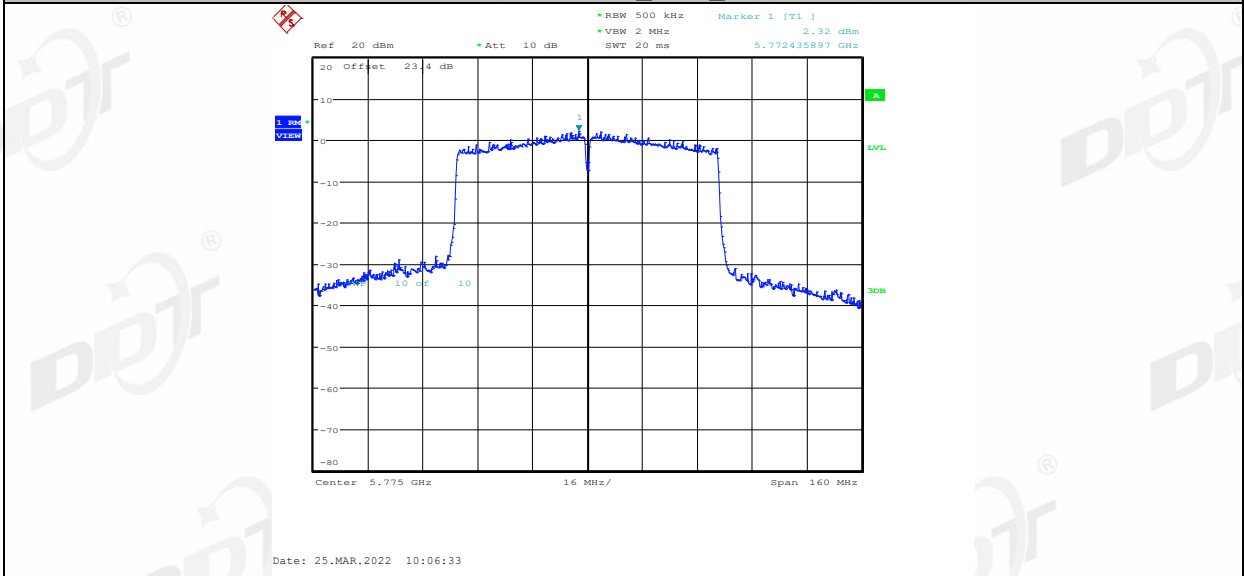
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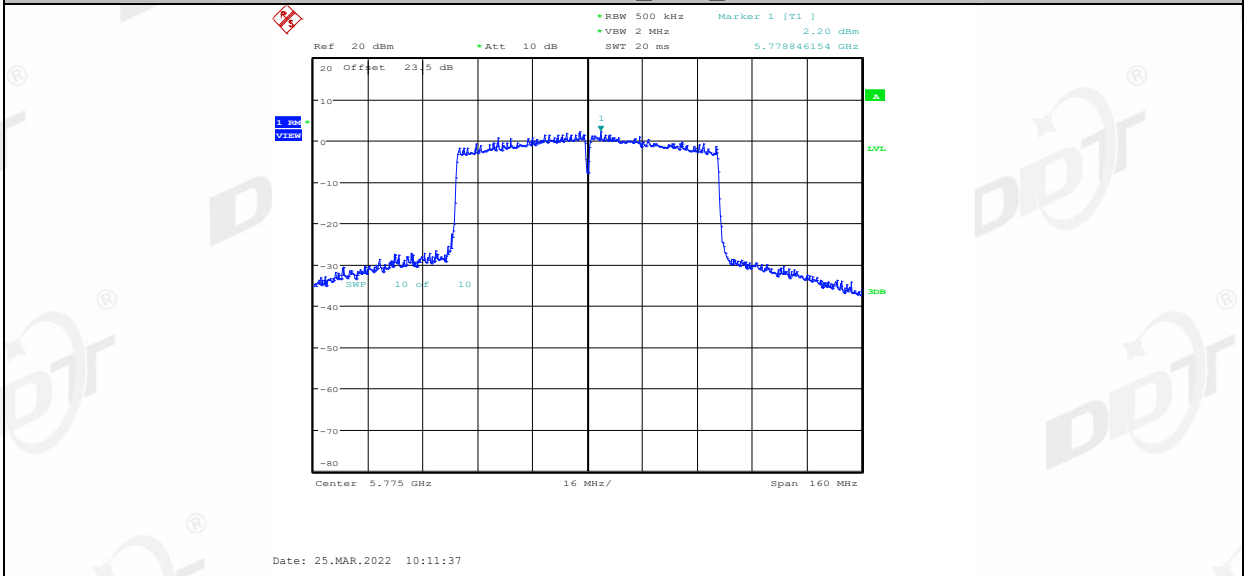
11AC80MIMO\_Ant2\_5210



11AC80MIMO\_Ant1\_5775



11AC80MIMO\_Ant2\_5775



## 7. Frequency Stability Measurement

### 7.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

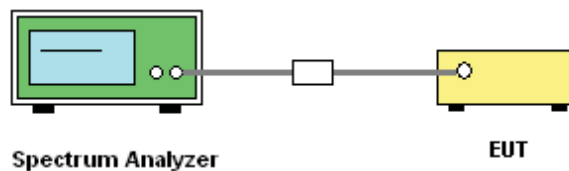
### 7.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 7.3. Test Procedures

- (1) To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- (2) The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value.
- (3) The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

### 7.4. Test Setup



### 7.5. Test Result

TestMode	Antenna	Channel	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)				
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant1	5200	NV	NT	-60000.00	-11.538462	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant2	5200	NV	NT	-40000.00	-7.692308	20	PASS
			LV	NT	-60000.00	-11.538462	20	PASS
			HV	NT	-40000.00	-7.692308	20	PASS
Ant1	5240	NV	NT	-40000.00	-7.633588	20	PASS	
		LV	NT	-20000.00	-3.816794	20	PASS	
		HV	NT	-20000.00	-3.816794	20	PASS	
Ant2	5240	NV	NT	-20000.00	-3.816794	20	PASS	

11N20MI MO			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	-60000.00	-11.450382	20	PASS	
	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS	
			LV	NT	-40000.00	-6.962576	20	PASS	
				HV	NT	-20000.00	-3.481288	20	PASS
				NV	NT	-20000.00	-3.481288	20	PASS
	Ant2	5745	LV	NT	-20000.00	-3.481288	20	PASS	
			HV	NT	-40000.00	-6.962576	20	PASS	
	Ant1	5785	NV	NT	0.00	0.000000	20	PASS	
			LV	NT	-20000.00	-3.457217	20	PASS	
				HV	NT	0.00	0.000000	20	PASS
				NV	NT	-40000.00	-6.914434	20	PASS
	Ant2	5785	LV	NT	-20000.00	-3.457217	20	PASS	
			HV	NT	-20000.00	-3.457217	20	PASS	
	Ant1	5825	NV	NT	-20000.00	-3.433476	20	PASS	
			LV	NT	-20000.00	-3.433476	20	PASS	
				HV	NT	-20000.00	-3.433476	20	PASS
				NV	NT	-20000.00	-3.433476	20	PASS
	Ant2	5825	LV	NT	-40000.00	-6.866953	20	PASS	
			HV	NT	-20000.00	-3.433476	20	PASS	
	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS	
			LV	NT	-20000.00	-3.861004	20	PASS	
				HV	NT	-20000.00	-3.861004	20	PASS
				NV	NT	0.00	0.000000	20	PASS
	Ant2	5180	LV	NT	-20000.00	-3.861004	20	PASS	
			HV	NT	-40000.00	-7.722008	20	PASS	
	Ant1	5200	NV	NT	-20000.00	-3.846154	20	PASS	
			LV	NT	-20000.00	-3.846154	20	PASS	
				HV	NT	-20000.00	-3.846154	20	PASS
				NV	NT	-20000.00	-3.846154	20	PASS
	Ant2	5200	LV	NT	-20000.00	-3.846154	20	PASS	
			HV	NT	-40000.00	-7.692308	20	PASS	
	Ant1	5240	NV	NT	-20000.00	-3.816794	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
				HV	NT	-40000.00	-7.633588	20	PASS
				NV	NT	-40000.00	-7.633588	20	PASS
Ant2	5240	LV	NT	-20000.00	-3.816794	20	PASS		
		HV	NT	-40000.00	-7.633588	20	PASS		
Ant1	5745	NV	NT	-40000.00	-6.962576	20	PASS		
		LV	NT	0.00	0.000000	20	PASS		
			HV	NT	-20000.00	-3.481288	20	PASS	
			NV	NT	-20000.00	-3.481288	20	PASS	
Ant2	5745	LV	NT	-40000.00	-6.962576	20	PASS		
		HV	NT	-20000.00	-3.481288	20	PASS		
Ant1	5785	NV	NT	-20000.00	-3.457217	20	PASS		
		LV	NT	-40000.00	-6.914434	20	PASS		
			HV	NT	0.00	0.000000	20	PASS	
			NV	NT	0.00	0.000000	20	PASS	
Ant2	5785	LV	NT	-20000.00	-3.457217	20	PASS		
		HV	NT	-40000.00	-6.914434	20	PASS		
Ant1	5825	NV	NT	-40000.00	-6.866953	20	PASS		
		LV	NT	0.00	0.000000	20	PASS		
			HV	NT	-40000.00	-6.866953	20	PASS	
			NV	NT	-40000.00	-6.866953	20	PASS	
Ant2	5825	LV	NT	-20000.00	-3.433476	20	PASS		

11N40MI MO	Ant1	5190	HV	NT	-40000.00	-6.866953	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant2	5190	HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
	Ant1	5230	HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
	Ant2	5230	HV	NT	-40000.00	-7.648184	20	PASS
			NV	NT	40000.00	7.648184	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant1	5755	HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant2	5755	HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant1	5795	HV	NT	0.00	0.000000	20	PASS
			NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	0.00	0.000000	20	PASS
	Ant2	5795	HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-6.902502	20	PASS
11AC20 MIMO	Ant1	5180	HV	NT	-40000.00	-7.722008	20	PASS
			NV	NT	-60000.00	-11.583012	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
	Ant2	5180	HV	NT	-40000.00	-7.722008	20	PASS
			NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-40000.00	-7.722008	20	PASS
	Ant1	5200	HV	NT	-20000.00	-3.846154	20	PASS
			NV	NT	-60000.00	-11.538462	20	PASS
			LV	NT	-40000.00	-7.692308	20	PASS
	Ant2	5200	HV	NT	0.00	0.000000	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
	Ant1	5240	HV	NT	-40000.00	-7.633588	20	PASS
			NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
	Ant2	5240	HV	NT	-20000.00	-3.816794	20	PASS
			NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
	Ant1	5745	HV	NT	-20000.00	-3.481288	20	PASS
			NV	NT	20000.00	3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
	Ant2	5745	HV	NT	0.00	0.000000	20	PASS
			NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	0.00	0.000000	20	PASS
Ant1	5785	HV	NT	0.00	0.000000	20	PASS	
		NV	NT	-60000.00	-10.371651	20	PASS	
		LV	NT	-20000.00	-3.457217	20	PASS	
Ant2	5785	HV	NT	-40000.00	-6.914434	20	PASS	
		NV	NT	-40000.00	-6.914434	20	PASS	
		LV	NT	0.00	0.000000	20	PASS	

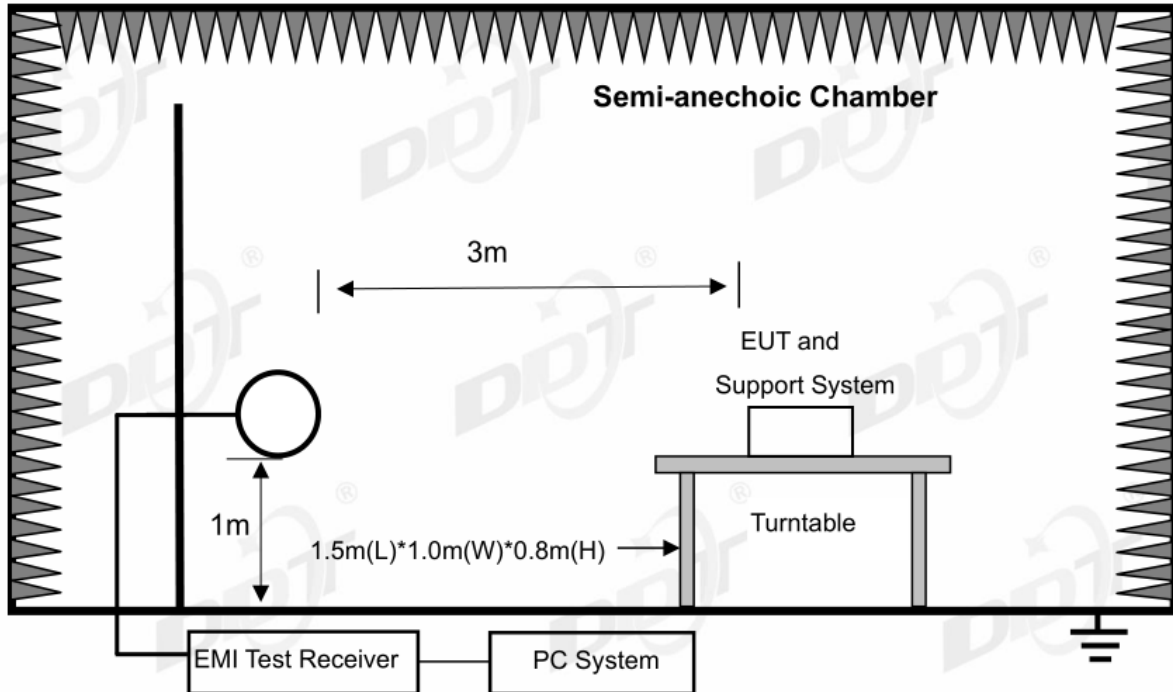


	Ant1	5825	NV	NT	-40000.00	-6.866953	20	PASS	
			LV	NT	-40000.00	-6.866953	20	PASS	
			HV	NT	-40000.00	-6.866953	20	PASS	
	Ant2	5825	NV	NT	-20000.00	-3.433476	20	PASS	
			LV	NT	-20000.00	-3.433476	20	PASS	
			HV	NT	-20000.00	-3.433476	20	PASS	
	11AC40 MIMO	Ant1	5190	NV	NT	-40000.00	-7.707129	20	PASS
				LV	NT	0.00	0.000000	20	PASS
				HV	NT	-40000.00	-7.707129	20	PASS
Ant2		5190	NV	NT	0.00	0.000000	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	0.00	0.000000	20	PASS	
Ant1		5230	NV	NT	0.00	0.000000	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	0.00	0.000000	20	PASS	
Ant2		5230	NV	NT	40000.00	7.648184	20	PASS	
			LV	NT	-40000.00	-7.648184	20	PASS	
			HV	NT	40000.00	7.648184	20	PASS	
Ant1		5755	NV	NT	-80000.00	-13.900956	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	0.00	0.000000	20	PASS	
Ant2		5755	NV	NT	-40000.00	-6.950478	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	-80000.00	-13.900956	20	PASS	
Ant1		5795	NV	NT	-80000.00	-13.805004	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	-40000.00	-6.902502	20	PASS	
Ant2		5795	NV	NT	0.00	0.000000	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	-40000.00	-6.902502	20	PASS	
11AC80 MIMO	Ant1	5210	NV	NT	0.00	0.000000	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	0.00	0.000000	20	PASS	
	Ant2	5210	NV	NT	0.00	0.000000	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	0.00	0.000000	20	PASS	
	Ant1	5775	NV	NT	0.00	0.000000	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	0.00	0.000000	20	PASS	
	Ant2	5775	NV	NT	0.00	0.000000	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	0.00	0.000000	20	PASS	

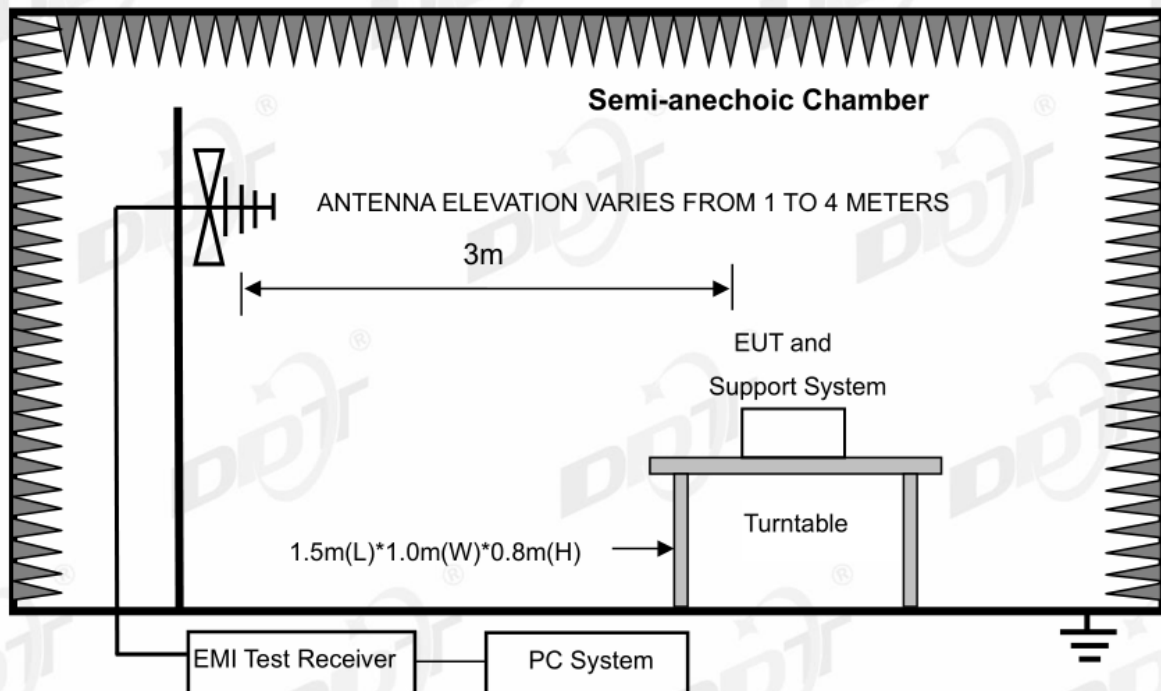
## 8. Emissions in restricted frequency bands

### 8.1. Block diagram of test setup

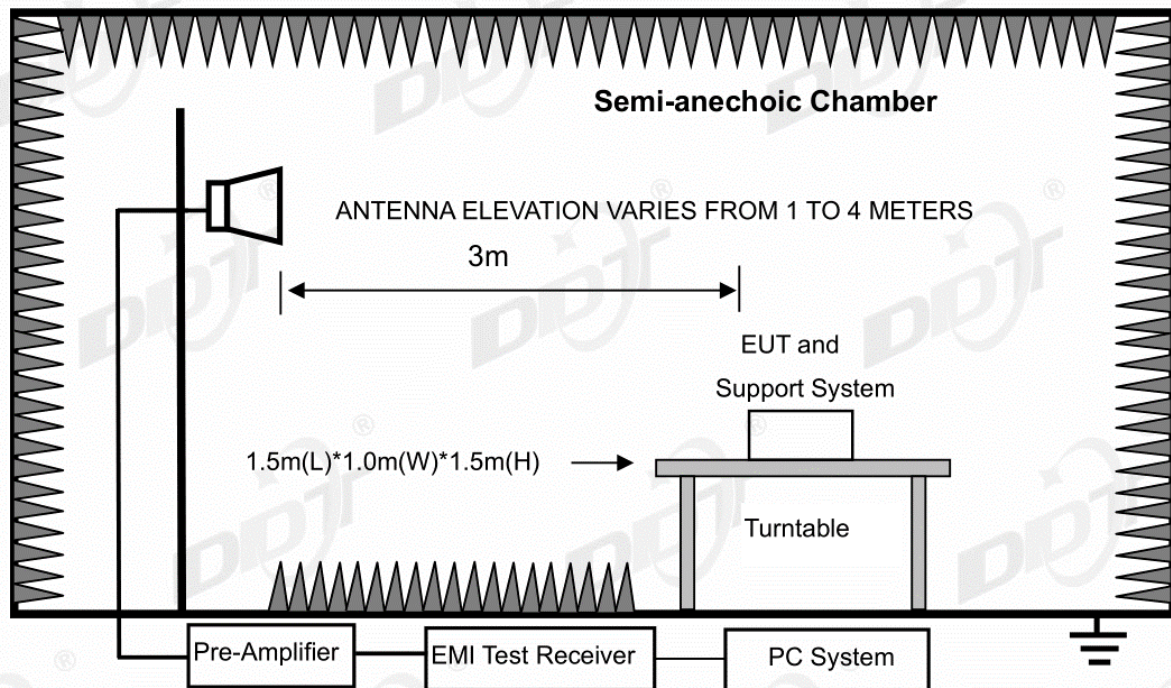
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

### 8.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6

## RSS-Gen section 8.10 Restricted frequency bands\*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

\* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

## (2) FCC 15.209 Limit &amp; RSS-Gen section 8.9 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB( $\mu\text{V}$ )/m (Peak) 54.0 dB( $\mu\text{V}$ )/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

## (3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits

shown in 15.209, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

### 8.3. Test Procedure

- (1) EUT height should be 0 m for below 1 GHz at a semi - anechoic chamber while EUT height should be 0 m for above 1GHz at full chamber or semi - anechoic chamber ground with absorbers
- (2) Setup EUT and assistant system according clause 2.3 and 8.2
- (3) Test antenna was located 3m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test distance
9 kHz-30 MHz	Active Loop antenna	3 m
30 MHz-1 GHz	Trilog Broadband Antenna	3 m
1 GHz-18 GHz	Double Ridged Horn Antenna(1GHz-18GHz)	3 m
18 GHz-40 GHz	Horn Antenna(18GHz-40GHz)	1 m

According ANSI C63.10:2013 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also be positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. for measurement above 30 MHz, the Trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

- (4) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 40 GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1m above ground.)

- (b) Change work frequency or channel of device if practicable.

- (c) Change modulation type of device if practicable.

- (d) Change power supply range from 85% to 115% of the rated supply voltage

- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 40 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9 kHz to 30 MHz and 18 GHz

to 40 GHz, so below final test was performed with frequency range from 30 MHz to 18 GHz.

- (5) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (6) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9-90 kHz, 110-490 kHz, for emissions from 9 kHz-90kHz, 110kHz-490kHz and above 1GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (7) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz-150 kHz	200 Hz
150 kHz-30 MHz	9 kHz
30 MHz-1 GHz	120 kHz

- (8) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3MHz for Peak measure, the RBW is set at 1 MHz, VBW is set at 10 Hz for AV value.

#### 8.4. Test result

##### Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits and RSS-Gen section 8.9 limits.

Note1: According exploratory test no any obvious emission was detected from 9 kHz to 30 MHz and 18 GHz to 40 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in Ant1 11ac20 mode.

Note3: For below test data, when the limit tabular marked “/” means this frequency point is the fundamental emission and no need comply with this limit.

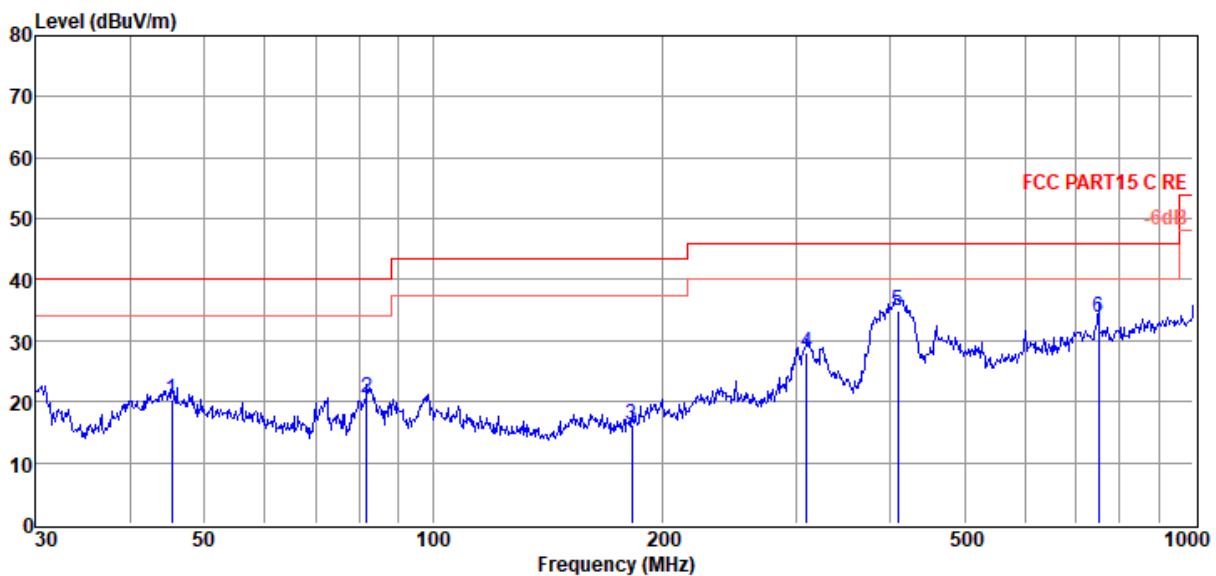
Note4: For simultaneous transmission of multiple channels in the BT, 2.4G WIFI and 5G WIFI, no noticeable emission was found.

Note5: 30MHz~40GHz: (11a, 11n20, n40, 11ac20, 11ac40 and 11ac 80 mode all have been tested, only Ant1 11ac20 mode is the worst case and reported. And the BT(WB800D)+ WIFI(W7613E) and 2.4GWIFI(WB800D)+ 5GWIFI(W7613E) are the worst simultaneous case and reported)

Radiated Emission test (below 1GHz)

# TR-4-E-009 Radiated Emission Test Result

<b>Test Site</b>	: DDT 3m Chamber 3#	<b>Tested By</b>	: Kennys Zhang
<b>Test Date</b>	: 2022-04-01	<b>Model Number</b>	: Clevershare Hub
<b>EUT</b>	: Clevershare Hub	<b>Test Mode</b>	: Tx Mode
<b>Power Supply</b>	: AC 120V/60Hz	<b>Antenna/Distance</b>	: 2021 VLUB 9163 3#/3m/HORIZONTAL
<b>Condition</b>	: Temp:24.5°C,Humi:55%,Press:100.1kPa		
<b>Memo</b>	: 5GWIFI		



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	45.38	1.75	14.91	3.65	20.31	40.00	-19.69	QP	HORIZONTAL
2	81.78	8.08	8.73	3.89	20.70	40.00	-19.30	QP	HORIZONTAL
3	182.56	2.15	9.61	4.39	16.15	43.50	-27.35	QP	HORIZONTAL
4	310.00	9.91	13.40	4.86	28.17	46.00	-17.83	QP	HORIZONTAL
5	408.95	13.94	15.76	5.18	34.88	46.00	-11.12	QP	HORIZONTAL
6	750.11	7.18	20.60	6.10	33.88	46.00	-12.12	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.  
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.  
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\E3 6.11\2022 Report Data\Q21121709-2E\FCC BELOW 1G.EM6

**Test Date** : 2022-04-01

**Tested By** : Kennys Zhang

**EUT** : Clevershare Hub

**Model Number** : Clevershare Hub

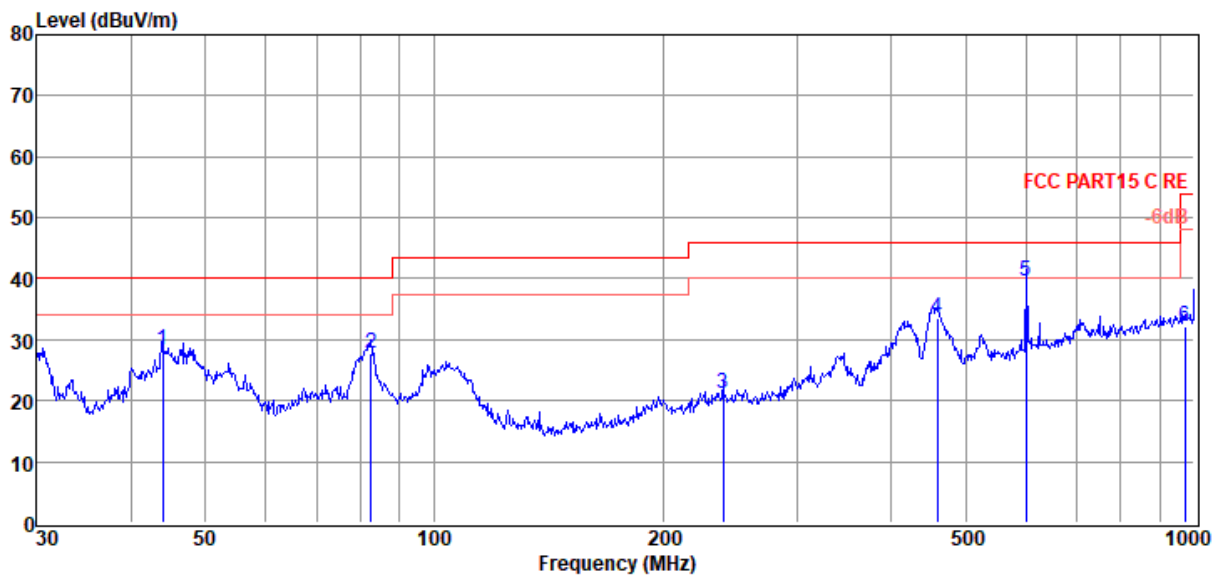
**Power Supply** : AC 120V/60Hz

**Test Mode** : Tx Mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2021 VLUB 9163 3#/3m/VERTICAL

**Memo** : 5GWIFI



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	43.97	9.56	14.98	3.64	28.18	40.00	-11.82	QP	VERTICAL
2	82.65	14.99	8.99	3.89	27.87	40.00	-12.13	QP	VERTICAL
3	239.99	4.12	12.50	4.62	21.24	46.00	-24.76	QP	VERTICAL
4	459.11	12.22	15.88	5.35	33.45	46.00	-12.55	QP	VERTICAL
5	601.43	14.64	19.13	5.74	39.51	46.00	-6.49	QP	VERTICAL
6	972.34	3.12	22.25	6.69	32.06	54.00	-21.94	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

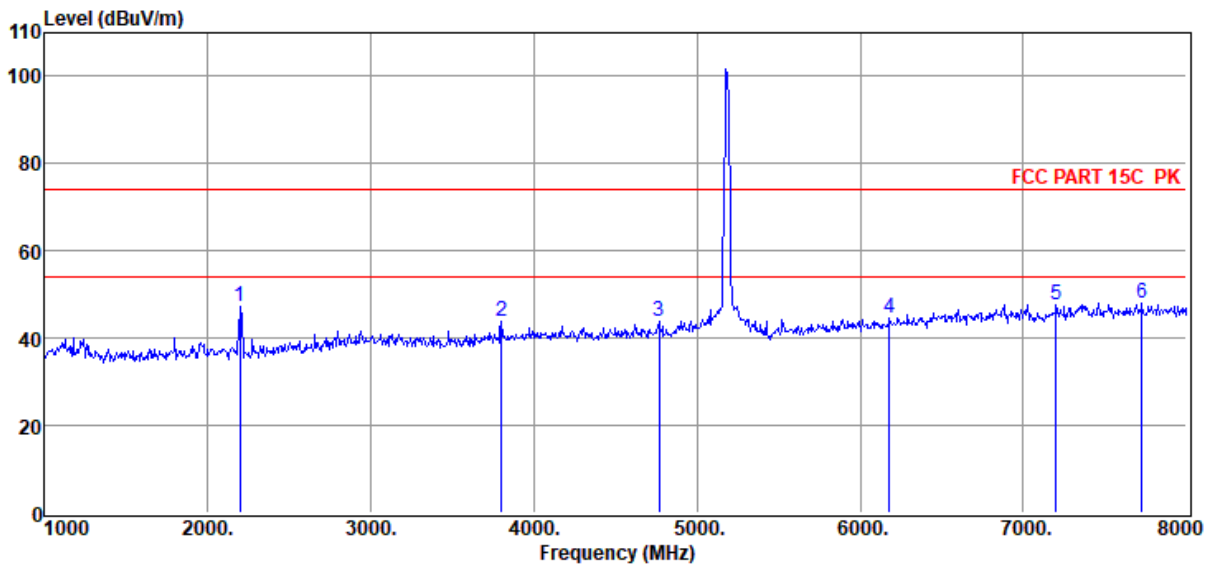


Radiated Emission test (above 1 GHz)

TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5180 POWER 1A

Data: 37



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor (dB)	Cable Loss (dB)	Filter Factor (dB)	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2197.00	57.25	27.05	39.50	1.66	0.70	47.16	74.00	-26.84	Peak	HORIZONTAL
2	3800.00	50.80	30.42	40.14	1.94	0.85	43.87	74.00	-30.13	Peak	HORIZONTAL
3	4766.00	48.61	32.35	40.35	2.46	0.90	43.97	74.00	-30.03	Peak	HORIZONTAL
4	6180.00	46.20	34.43	40.36	3.12	1.10	44.49	74.00	-29.51	Peak	HORIZONTAL
5	7202.00	47.17	36.16	39.72	3.07	0.98	47.66	74.00	-26.34	Peak	HORIZONTAL
6	7727.00	46.76	36.67	39.77	3.16	1.11	47.93	74.00	-26.07	Peak	HORIZONTAL

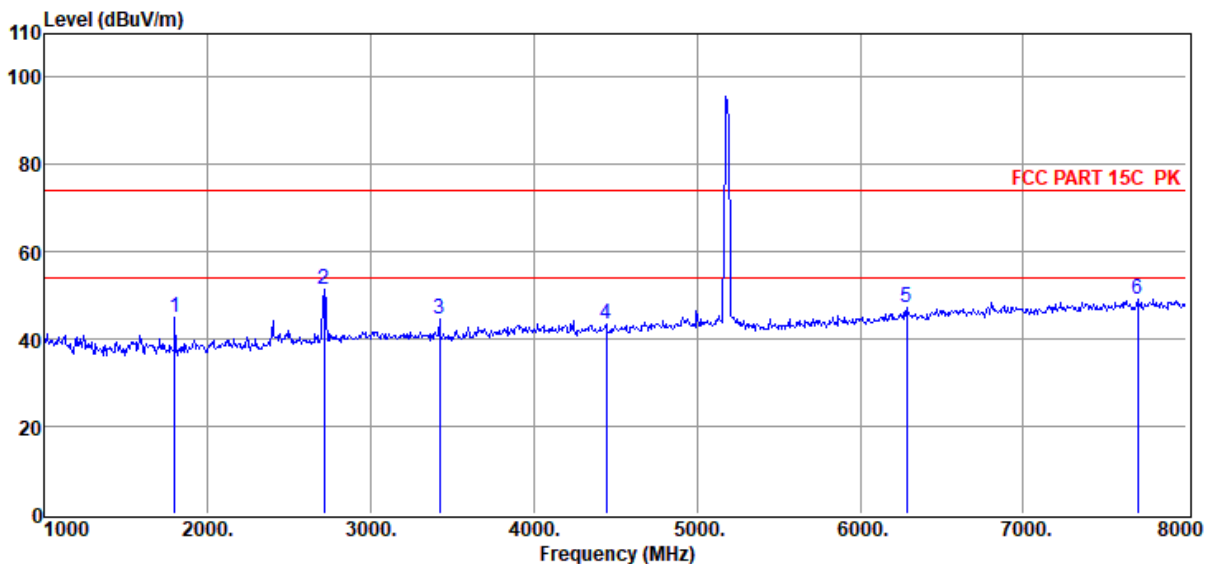
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#  
**Test Date** : 2022-04-08  
**EUT** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa  
**Memo** : 11ac20 5180 POWER 1A

**D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6**  
**Tested By** : Kennys Zhang  
**Model Number** : Clevershare Hub  
**Test Mode** : Tx Mode  
**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL

Data: 38



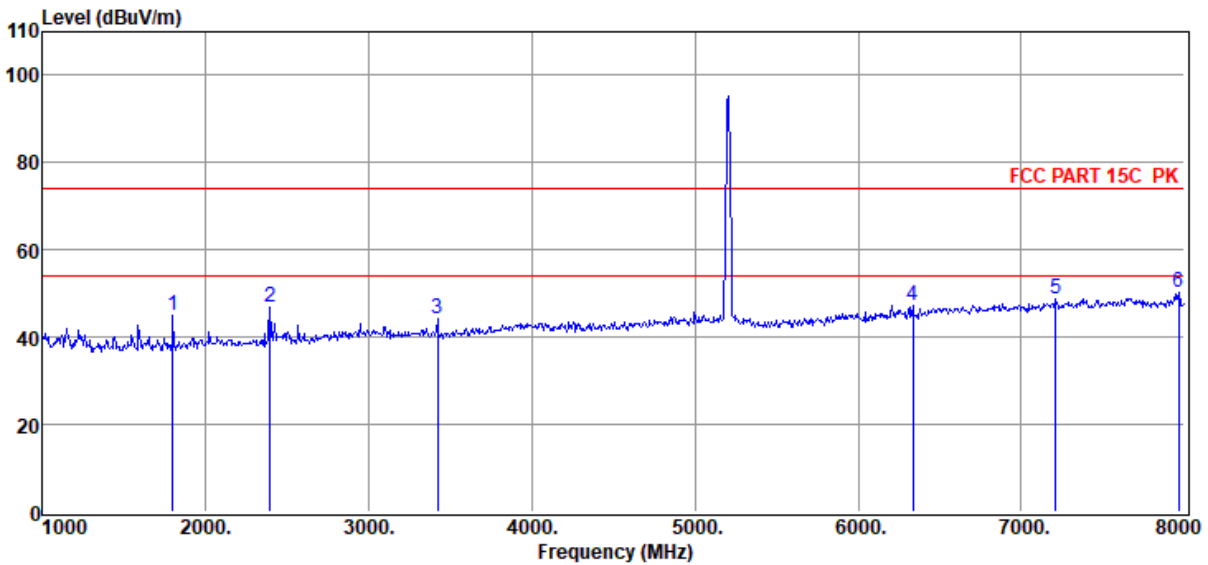
Item (Mark)	Freq. (MHz)	Read Level (dB $\mu$ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Detector	Polarization
1	1798.00	55.68	26.17	39.10	1.51	0.64	44.90	74.00	-29.10	Peak	VERTICAL
2	2715.00	60.37	28.42	39.76	1.80	0.76	51.59	74.00	-22.41	Peak	VERTICAL
3	3422.00	52.60	29.42	40.03	1.72	0.82	44.53	74.00	-29.47	Peak	VERTICAL
4	4444.00	49.23	31.46	40.29	2.33	0.88	43.61	74.00	-30.39	Peak	VERTICAL
5	6285.00	48.42	34.68	40.27	3.17	1.08	47.08	74.00	-26.92	Peak	VERTICAL
6	7699.00	48.16	36.64	39.77	3.16	1.10	49.29	74.00	-24.71	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5200 POWER 1A

Data: 39



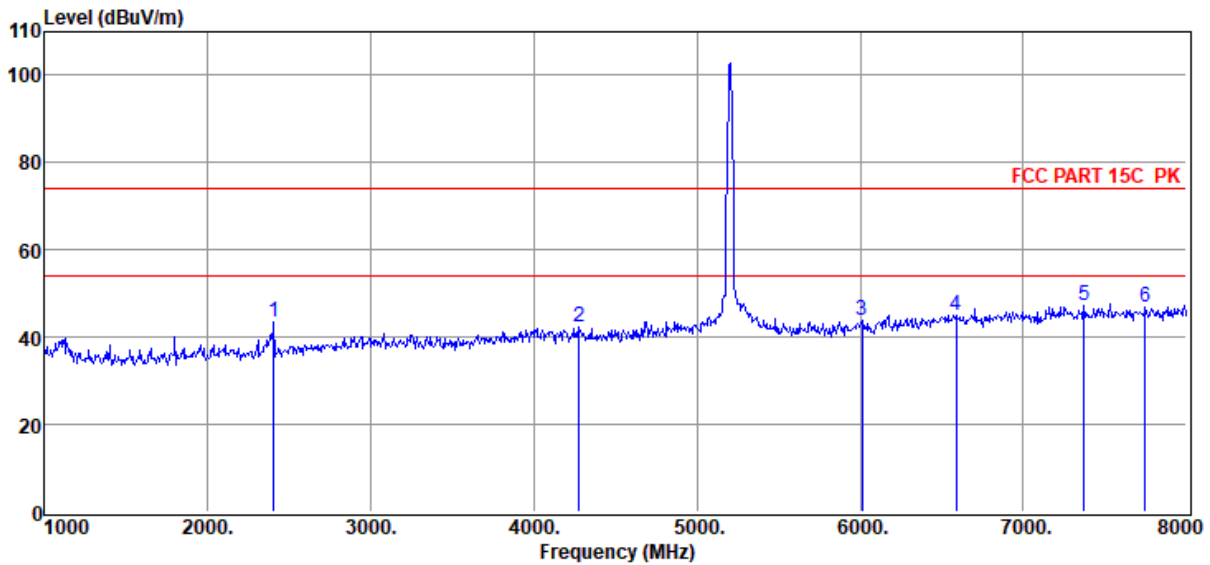
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1798.00	55.75	26.17	39.10	1.51	0.64	44.97	74.00	-29.03	Peak	VERTICAL
2	2393.00	56.63	27.41	39.60	1.71	0.72	46.87	74.00	-27.13	Peak	VERTICAL
3	3422.00	52.40	29.42	40.03	1.72	0.82	44.33	74.00	-29.67	Peak	VERTICAL
4	6334.00	48.51	34.80	40.23	3.19	1.07	47.34	74.00	-26.66	Peak	VERTICAL
5	7209.00	48.45	36.17	39.72	3.07	0.98	48.95	74.00	-25.05	Peak	VERTICAL
6	7965.00	48.63	36.96	39.80	3.19	1.17	50.15	74.00	-23.85	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5200 POWER 1A

Data: 40



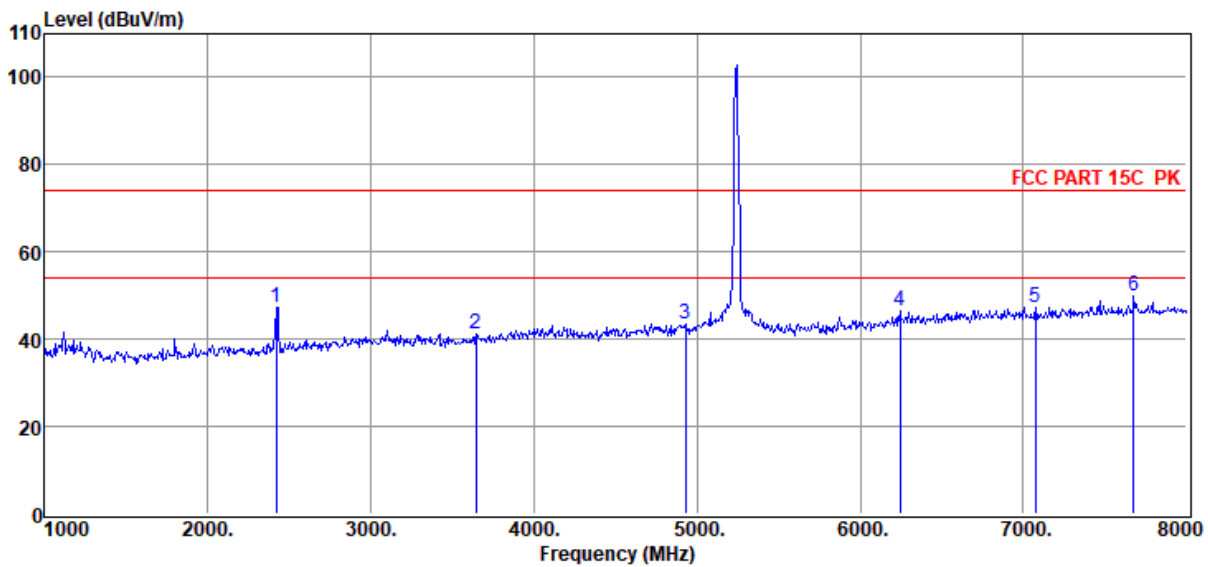
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2407.00	53.18	27.43	39.60	1.71	0.72	43.44	74.00	-30.56	Peak	HORIZONTAL
2	4276.00	48.05	31.32	40.26	2.25	0.87	42.23	74.00	-31.77	Peak	HORIZONTAL
3	6012.00	45.94	34.03	40.49	3.04	1.14	43.66	74.00	-30.34	Peak	HORIZONTAL
4	6586.00	45.47	35.34	40.03	3.23	1.02	45.03	74.00	-28.97	Peak	HORIZONTAL
5	7370.00	46.51	36.30	39.74	3.11	1.02	47.20	74.00	-26.80	Peak	HORIZONTAL
6	7748.00	45.84	36.70	39.77	3.16	1.12	47.05	74.00	-26.95	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5240 POWER 1A

Data: 41



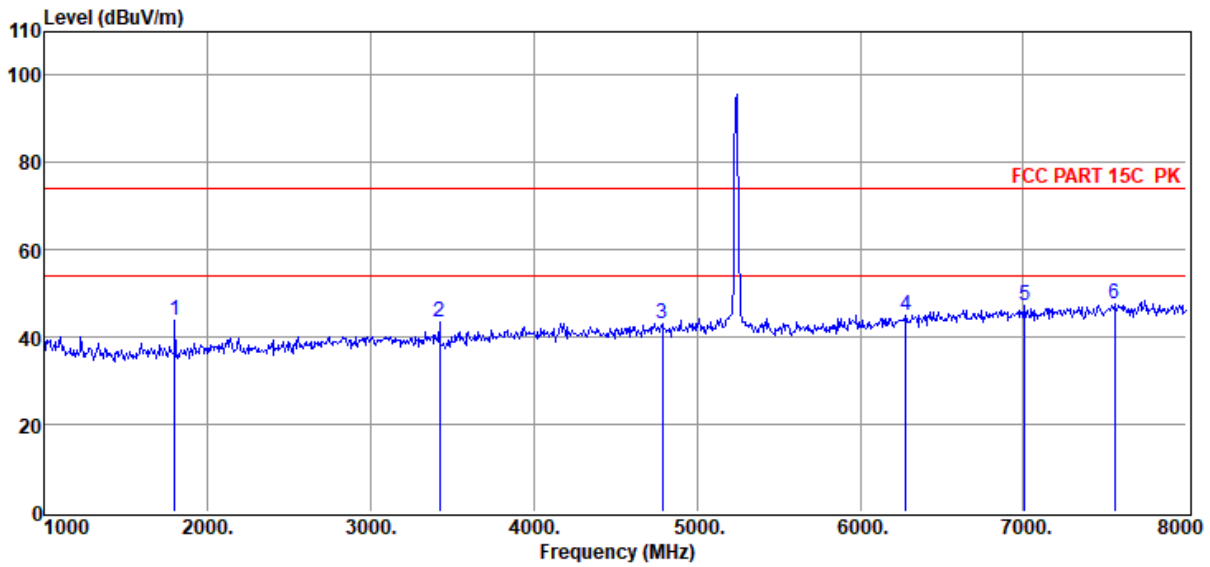
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2421.00	57.02	27.46	39.61	1.72	0.73	47.32	74.00	-26.68	Peak	HORIZONTAL
2	3646.00	48.65	29.90	40.09	1.81	0.84	41.11	74.00	-32.89	Peak	HORIZONTAL
3	4927.00	47.72	32.87	40.39	2.51	0.91	43.62	74.00	-30.38	Peak	HORIZONTAL
4	6243.00	48.00	34.58	40.31	3.15	1.09	46.51	74.00	-27.49	Peak	HORIZONTAL
5	7076.00	46.93	36.06	39.71	3.04	0.95	47.27	74.00	-26.73	Peak	HORIZONTAL
6	7678.00	48.94	36.61	39.77	3.16	1.10	50.04	74.00	-23.96	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5240 POWER 1A

Data: 42



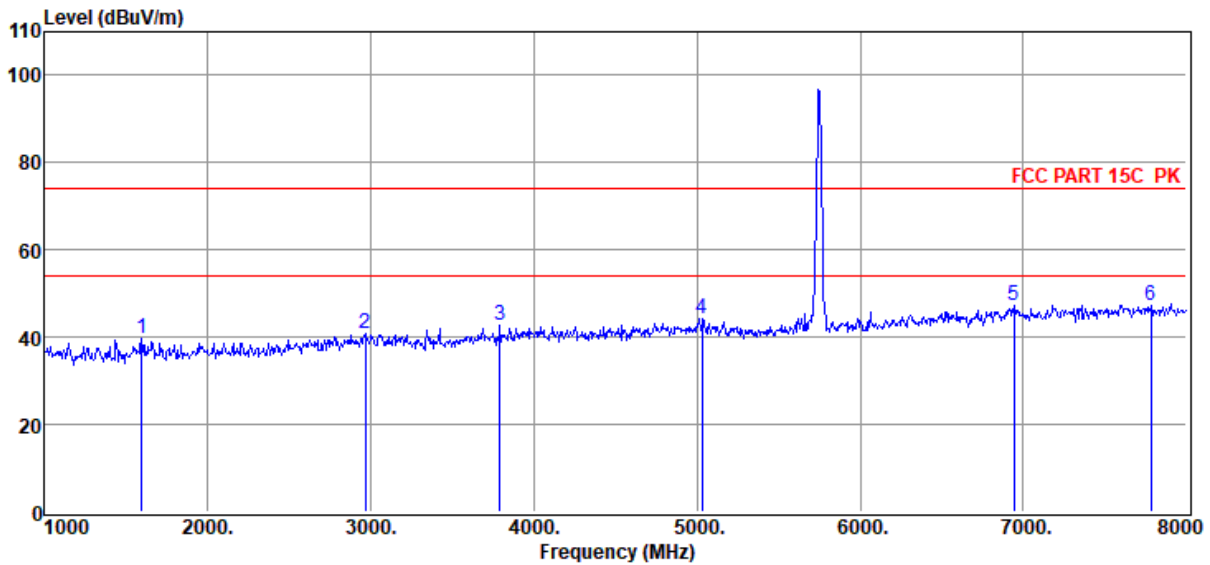
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1798.00	54.63	26.17	39.10	1.51	0.64	43.85	74.00	-30.15	Peak	VERTICAL
2	3422.00	51.62	29.42	40.03	1.72	0.82	43.55	74.00	-30.45	Peak	VERTICAL
3	4787.00	47.63	32.42	40.36	2.46	0.90	43.05	74.00	-30.95	Peak	VERTICAL
4	6278.00	46.35	34.67	40.28	3.16	1.08	44.98	74.00	-29.02	Peak	VERTICAL
5	7006.00	46.92	36.00	39.70	3.02	0.93	47.17	74.00	-26.83	Peak	VERTICAL
6	7559.00	46.56	36.47	39.76	3.15	1.07	47.49	74.00	-26.51	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5745

Data: 43



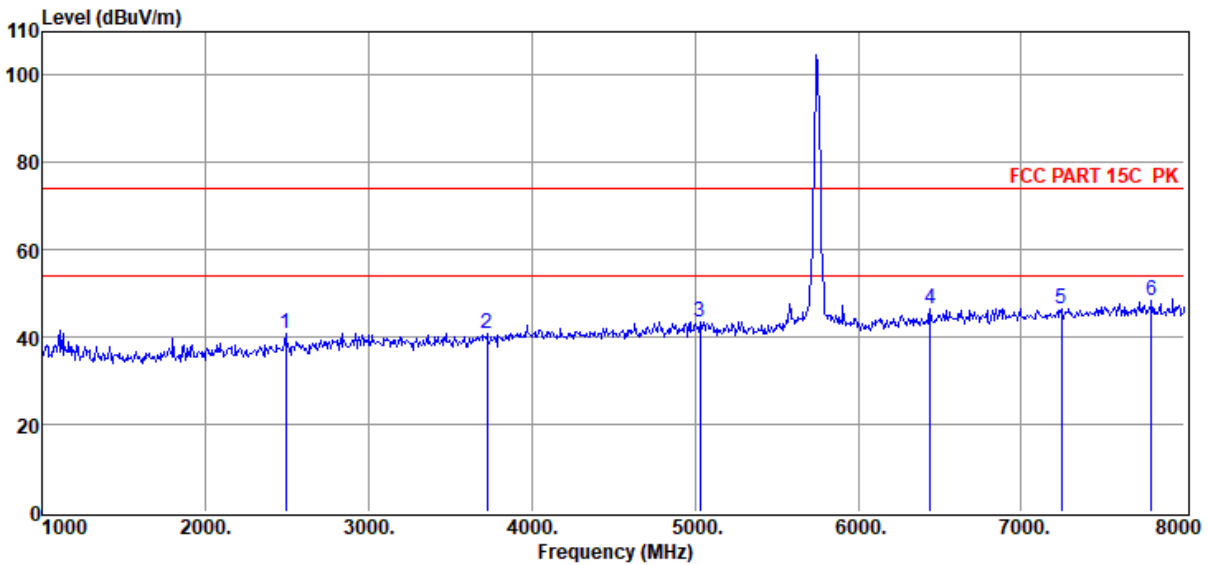
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	50.68	25.65	38.79	1.42	0.61	39.57	74.00	-34.43	Peak	VERTICAL
2	2967.00	48.55	29.37	39.88	1.86	0.79	40.69	74.00	-33.31	Peak	VERTICAL
3	3793.00	49.53	30.40	40.14	1.94	0.85	42.58	74.00	-31.42	Peak	VERTICAL
4	5032.00	48.13	33.08	40.40	2.54	0.92	44.27	74.00	-29.73	Peak	VERTICAL
5	6943.00	47.15	35.91	39.75	3.05	0.94	47.30	74.00	-26.70	Peak	VERTICAL
6	7783.00	46.12	36.74	39.78	3.17	1.13	47.38	74.00	-26.62	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP .EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5745

Data: 44



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2491.00	50.47	27.58	39.65	1.74	0.73	40.87	74.00	-33.13	Peak	HORIZONTAL
2	3723.00	47.97	30.16	40.12	1.88	0.84	40.73	74.00	-33.27	Peak	HORIZONTAL
3	5032.00	47.33	33.08	40.40	2.54	0.92	43.47	74.00	-30.53	Peak	HORIZONTAL
4	6439.00	47.48	35.05	40.15	3.24	1.05	46.67	74.00	-27.33	Peak	HORIZONTAL
5	7244.00	46.11	36.20	39.72	3.08	0.99	46.66	74.00	-27.34	Peak	HORIZONTAL
6	7797.00	47.11	36.76	39.78	3.17	1.13	48.39	74.00	-25.61	Peak	HORIZONTAL

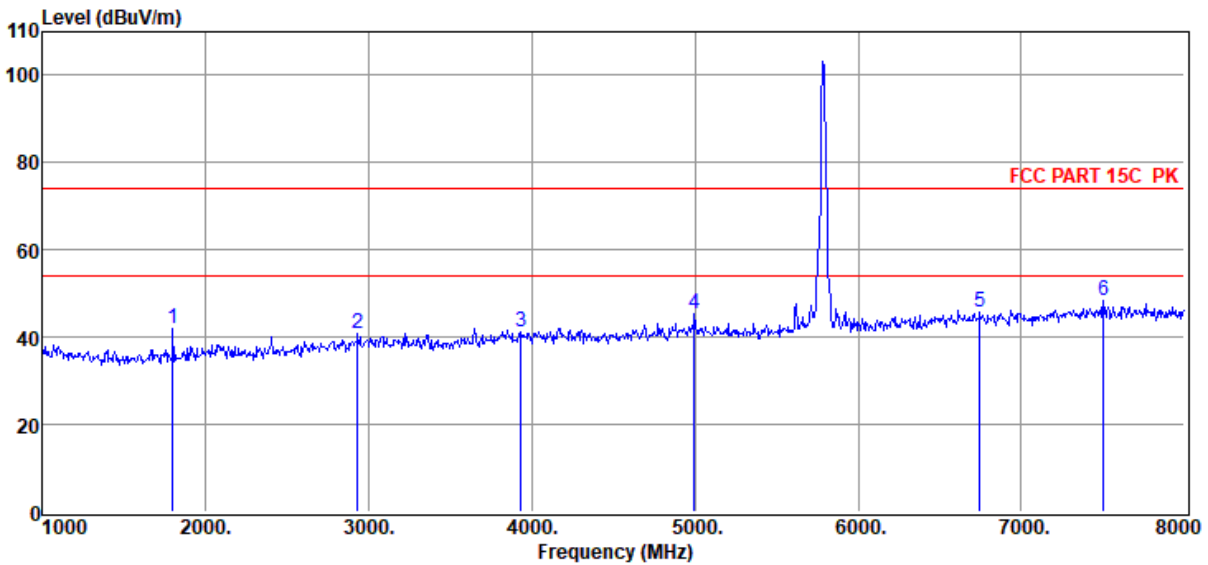
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5785

Data: 45



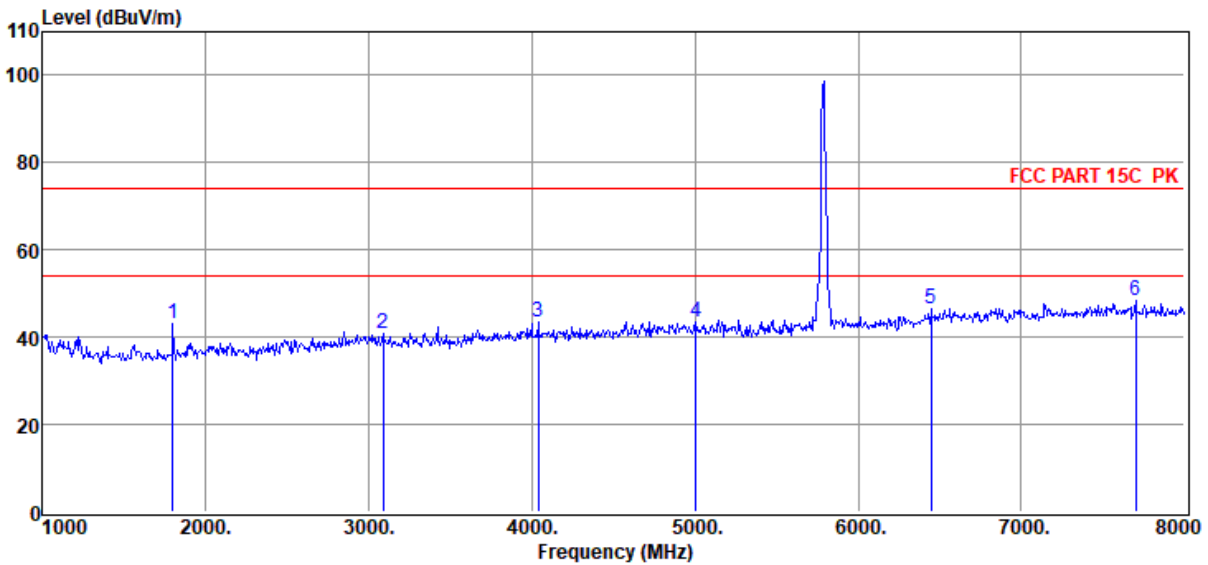
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1798.00	52.73	26.17	39.10	1.51	0.64	41.95	74.00	-32.05	Peak	HORIZONTAL
2	2932.00	48.67	29.24	39.87	1.85	0.78	40.67	74.00	-33.33	Peak	HORIZONTAL
3	3933.00	47.74	30.87	40.18	2.05	0.86	41.34	74.00	-32.66	Peak	HORIZONTAL
4	4997.00	49.08	33.09	40.40	2.54	0.91	45.22	74.00	-28.78	Peak	HORIZONTAL
5	6747.00	45.89	35.60	39.90	3.15	0.98	45.72	74.00	-28.28	Peak	HORIZONTAL
6	7503.00	47.62	36.40	39.75	3.14	1.06	48.47	74.00	-25.53	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5785

Data: 46



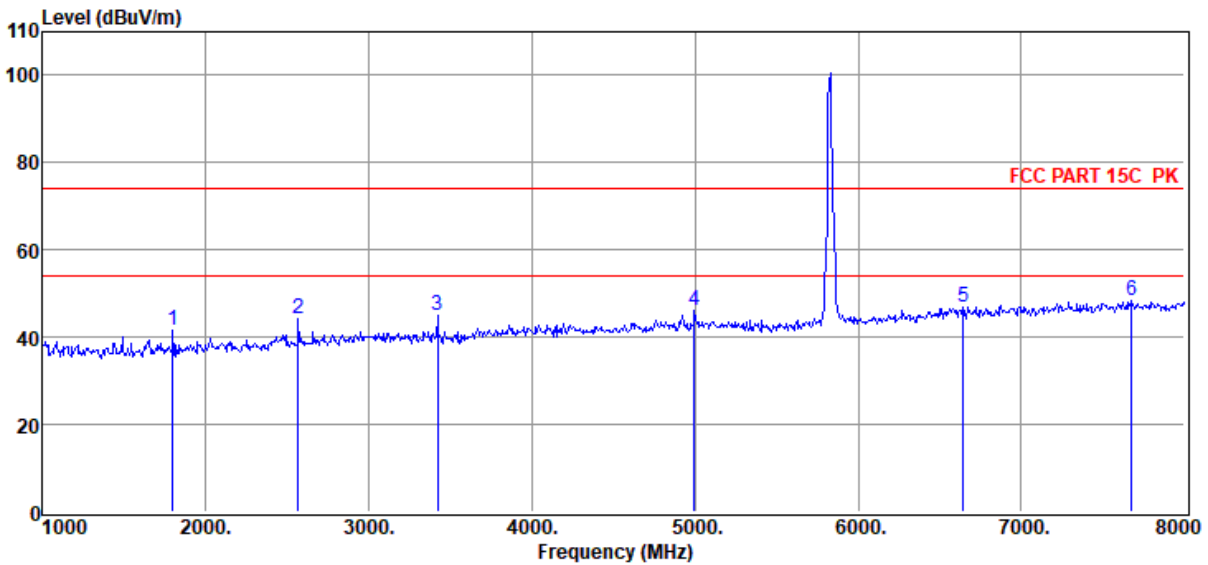
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1798.00	53.84	26.17	39.10	1.51	0.64	43.06	74.00	-30.94	Peak	VERTICAL
2	3086.00	48.58	29.48	39.93	1.84	0.80	40.77	74.00	-33.23	Peak	VERTICAL
3	4038.00	49.63	31.13	40.21	2.13	0.86	43.54	74.00	-30.46	Peak	VERTICAL
4	5004.00	47.31	33.10	40.40	2.54	0.91	43.46	74.00	-30.54	Peak	VERTICAL
5	6446.00	47.28	35.07	40.14	3.24	1.05	46.50	74.00	-27.50	Peak	VERTICAL
6	7699.00	47.10	36.64	39.77	3.16	1.10	48.23	74.00	-25.77	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5825

Data: 47



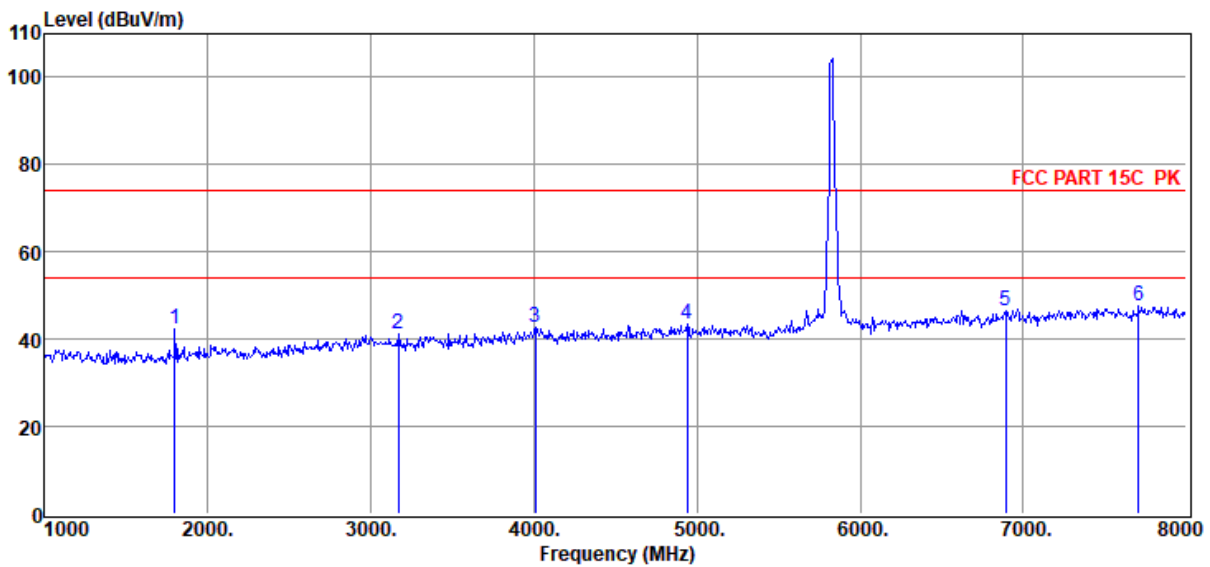
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1798.00	52.34	26.17	39.10	1.51	0.64	41.56	74.00	-32.44	Peak	VERTICAL
2	2568.00	53.58	27.86	39.68	1.76	0.74	44.26	74.00	-29.74	Peak	VERTICAL
3	3422.00	52.92	29.42	40.03	1.72	0.82	44.85	74.00	-29.15	Peak	VERTICAL
4	4997.00	49.87	33.09	40.40	2.54	0.91	46.01	74.00	-27.99	Peak	VERTICAL
5	6642.00	47.24	35.43	39.99	3.20	1.01	46.89	74.00	-27.11	Peak	VERTICAL
6	7678.00	47.11	36.61	39.77	3.16	1.10	48.21	74.00	-25.79	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5825

Data: 48



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1798.00	53.10	26.17	39.10	1.51	0.64	42.32	74.00	-31.68	Peak	HORIZONTAL
2	3170.00	49.16	29.47	39.95	1.81	0.80	41.29	74.00	-32.71	Peak	HORIZONTAL
3	4010.00	48.89	31.11	40.20	2.12	0.86	42.78	74.00	-31.22	Peak	HORIZONTAL
4	4941.00	47.55	32.91	40.39	2.52	0.91	43.50	74.00	-30.50	Peak	HORIZONTAL
5	6894.00	46.58	35.83	39.78	3.07	0.95	46.65	74.00	-27.35	Peak	HORIZONTAL
6	7706.00	46.42	36.65	39.77	3.16	1.11	47.57	74.00	-26.43	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6

**Test Date** : 2022-04-08

**Tested By** : Kennys Zhang

**EUT** : Clevershare Hub

**Model Number** : Clevershare Hub

**Power Supply** : AC 120V/60Hz

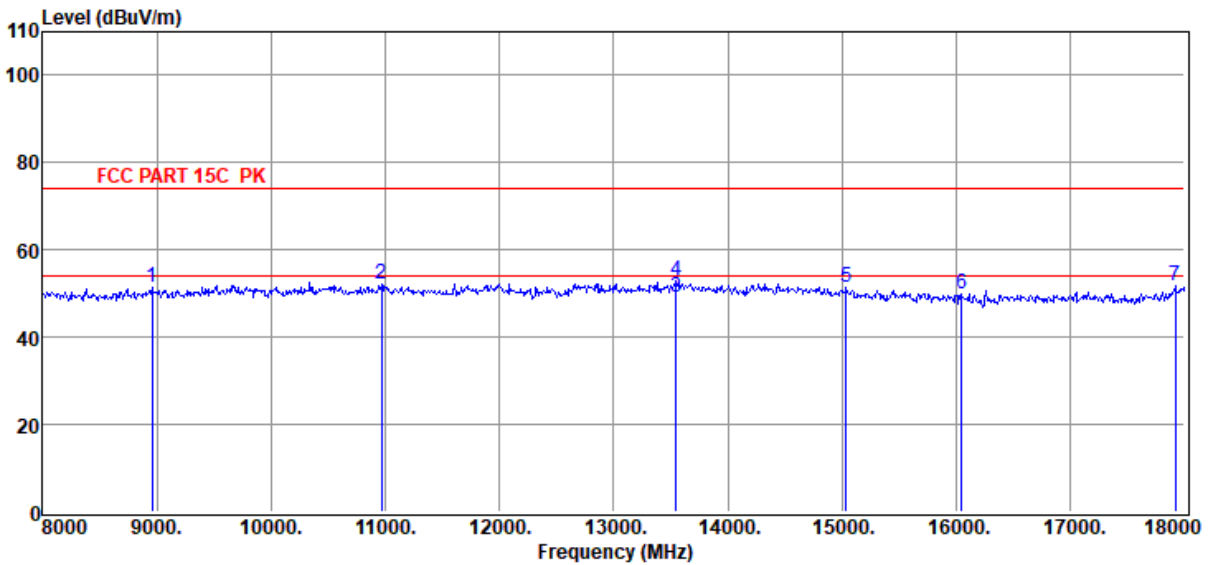
**Test Mode** : Tx Mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL

**Memo** : 11ac20 5180 POWER 1A

Data: 55



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8960.00	46.80	38.26	39.90	3.32	2.80	51.28	74.00	-22.72	Peak	VERTICAL
2	10970.00	46.56	39.28	40.21	3.79	2.63	52.05	74.00	-21.95	Peak	VERTICAL
3	13550.00	42.31	39.99	40.01	4.04	2.67	49.00	54.00	-5.00	Average	VERTICAL
4	13550.00	46.24	39.99	40.01	4.04	2.67	52.93	74.00	-21.07	Peak	VERTICAL
5	15040.00	44.75	39.44	39.61	4.48	2.40	51.46	74.00	-22.54	Peak	VERTICAL
6	16050.00	44.77	37.90	39.91	4.61	2.64	50.01	74.00	-23.99	Peak	VERTICAL
7	17920.00	42.79	42.00	40.65	4.94	2.67	51.75	74.00	-22.25	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6

**Test Date** : 2022-04-08

**Tested By** : Kennys Zhang

**EUT** : Clevershare Hub

**Model Number** : Clevershare Hub

**Power Supply** : AC 120V/60Hz

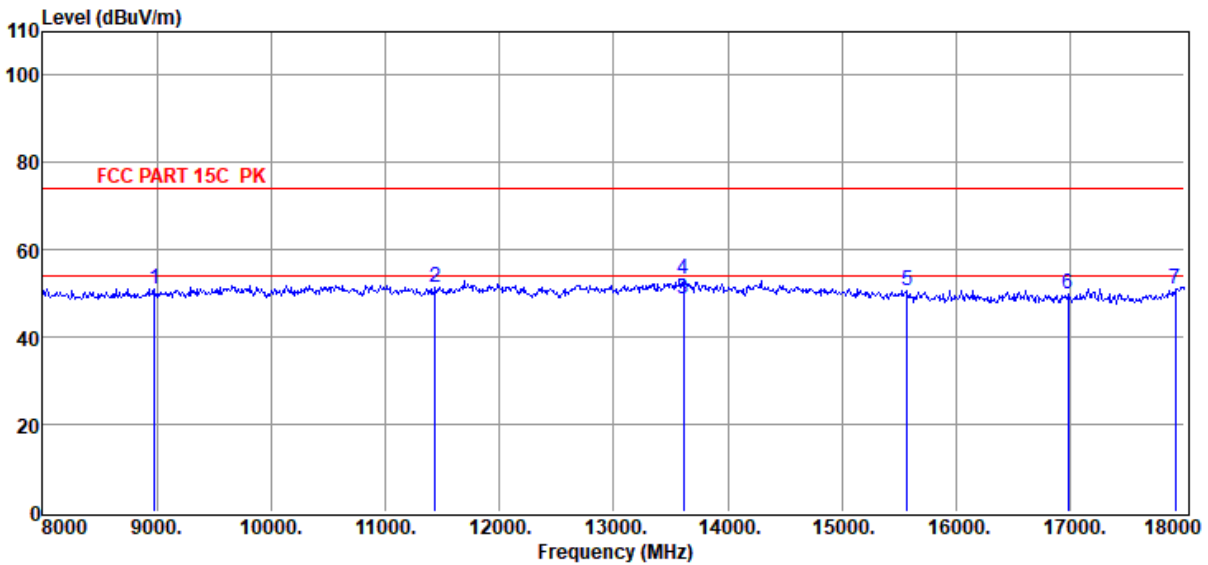
**Test Mode** : Tx Mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/HORIZONTAL

**Memo** : 11ac20 5180 POWER 1A

Data: 56



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8980.00	46.48	38.28	39.90	3.33	2.80	50.99	74.00	-23.01	Peak	HORIZONTAL
2	11440.00	46.16	39.04	40.16	3.95	2.51	51.50	74.00	-22.50	Peak	HORIZONTAL
3	13610.00	42.10	39.98	39.97	4.11	2.67	48.89	54.00	-5.11	Average	HORIZONTAL
4	13610.00	46.52	39.98	39.97	4.11	2.67	53.31	74.00	-20.69	Peak	HORIZONTAL
5	15570.00	44.52	38.67	39.77	4.57	2.51	50.50	74.00	-23.50	Peak	HORIZONTAL
6	16980.00	43.40	38.48	40.10	4.71	3.37	49.86	74.00	-24.14	Peak	HORIZONTAL
7	17920.00	42.06	42.00	40.65	4.94	2.67	51.02	74.00	-22.98	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

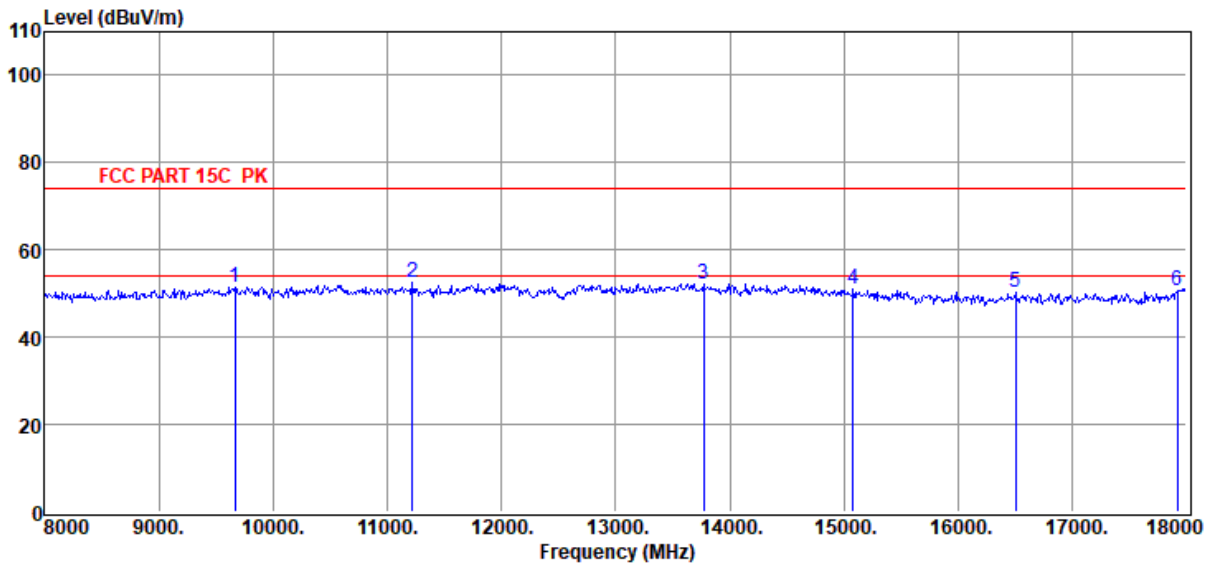
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5200 POWER 1A

Data: 57



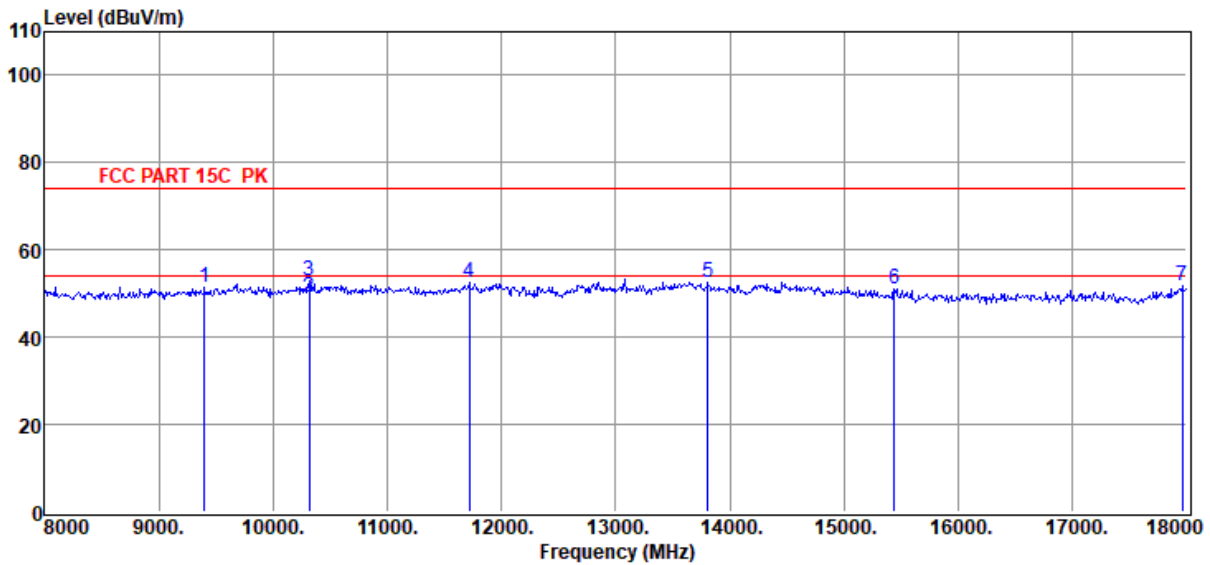
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9670.00	46.69	38.60	40.37	3.64	2.96	51.52	74.00	-22.48	Peak	HORIZONTAL
2	11220.00	47.17	39.17	40.18	3.87	2.56	52.59	74.00	-21.41	Peak	HORIZONTAL
3	13770.00	45.21	39.95	39.86	4.28	2.68	52.26	74.00	-21.74	Peak	HORIZONTAL
4	15080.00	44.18	39.39	39.62	4.48	2.41	50.84	74.00	-23.16	Peak	HORIZONTAL
5	16500.00	44.47	37.90	40.00	4.73	2.99	50.09	74.00	-23.91	Peak	HORIZONTAL
6	17920.00	41.72	42.00	40.65	4.94	2.67	50.68	74.00	-23.32	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5200 POWER 1A

Data: 58



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9400.00	46.34	38.62	40.18	3.56	2.90	51.24	74.00	-22.76	Peak	VERTICAL
2	10320.00	44.11	38.78	40.47	3.67	2.91	49.00	54.00	-5.00	Average	VERTICAL
3	10320.00	48.20	38.78	40.47	3.67	2.91	53.09	74.00	-20.91	Peak	VERTICAL
4	11720.00	47.18	39.09	40.13	4.01	2.44	52.59	74.00	-21.41	Peak	VERTICAL
5	13810.00	45.46	39.94	39.83	4.32	2.68	52.57	74.00	-21.43	Peak	VERTICAL
6	15440.00	44.73	38.88	39.73	4.55	2.48	50.91	74.00	-23.09	Peak	VERTICAL
7	17960.00	42.47	42.25	40.68	4.95	2.64	51.63	74.00	-22.37	Peak	VERTICAL

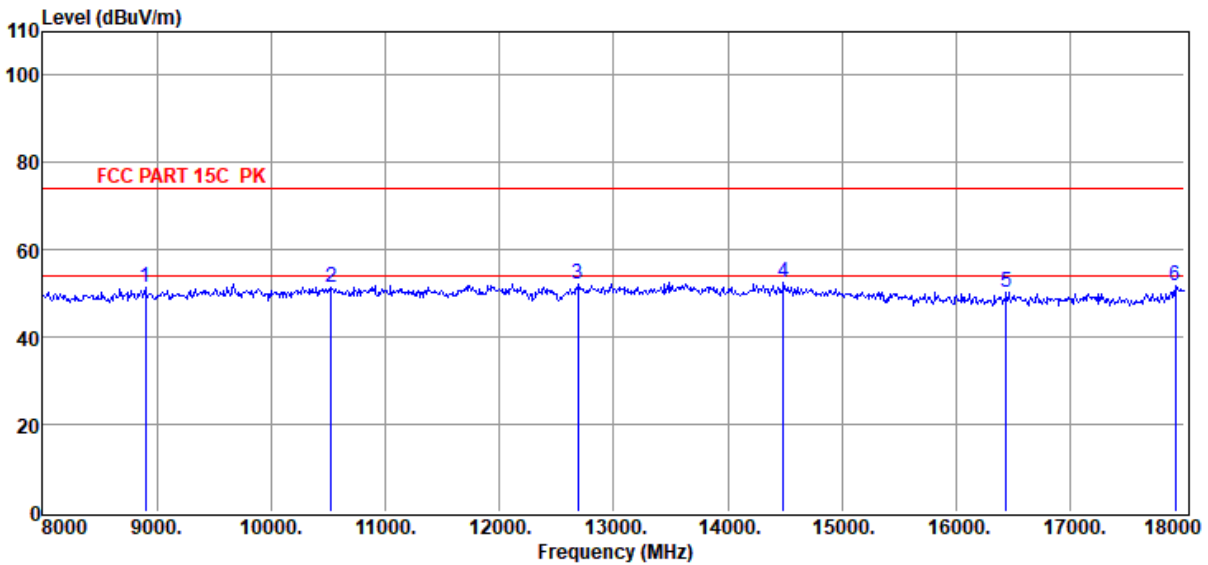
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5240 POWER 1A

Data: 59



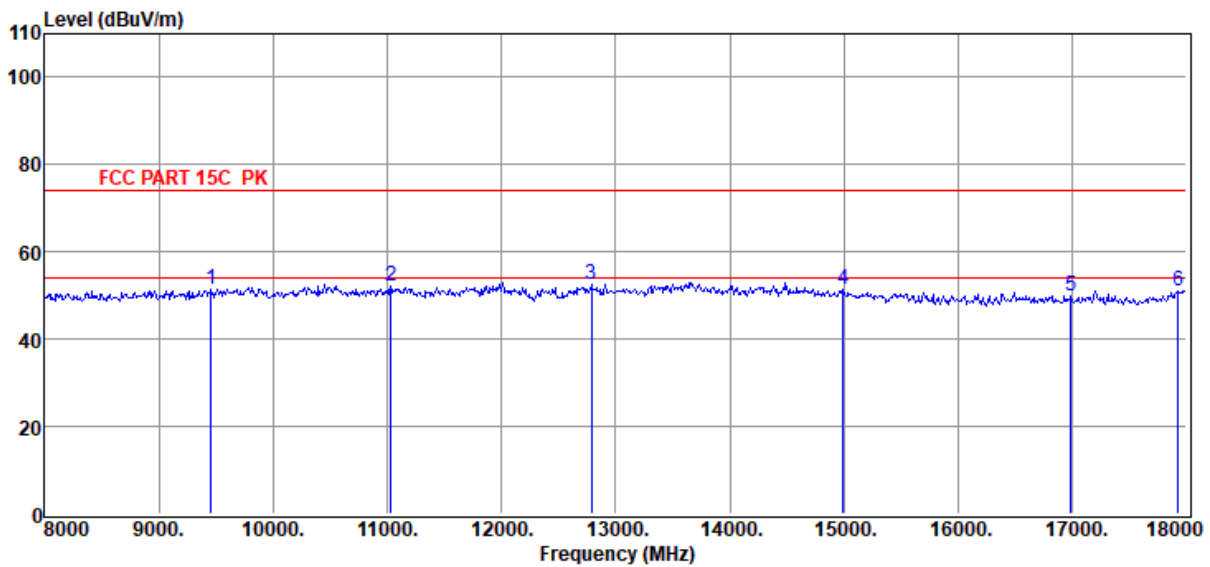
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	8900.00	46.86	38.20	39.89	3.31	2.79	51.27	74.00	-22.73	Peak	VERTICAL
2	10530.00	46.40	39.02	40.39	3.68	2.82	51.53	74.00	-22.47	Peak	VERTICAL
3	12690.00	46.68	39.23	40.31	3.97	2.56	52.13	74.00	-21.87	Peak	VERTICAL
4	14490.00	45.26	39.90	39.65	4.35	2.54	52.40	74.00	-21.60	Peak	VERTICAL
5	16440.00	44.84	37.90	39.99	4.71	2.95	50.41	74.00	-23.59	Peak	VERTICAL
6	17920.00	42.81	42.00	40.65	4.94	2.67	51.77	74.00	-22.23	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5240 POWER 1A

Data: 60



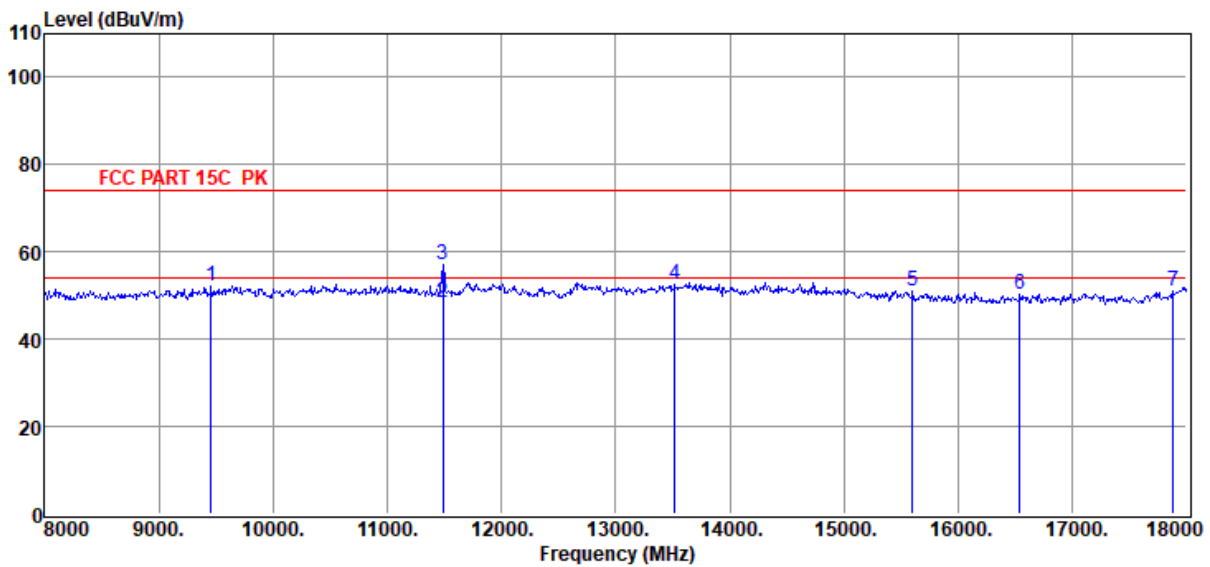
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	9460.00	46.56	38.67	40.22	3.60	2.91	51.52	74.00	-22.48	Peak	HORIZONTAL
2	11030.00	46.66	39.28	40.20	3.81	2.61	52.16	74.00	-21.84	Peak	HORIZONTAL
3	12790.00	46.97	39.35	40.34	4.11	2.59	52.68	74.00	-21.32	Peak	HORIZONTAL
4	14990.00	44.74	39.51	39.60	4.47	2.39	51.51	74.00	-22.49	Peak	HORIZONTAL
5	16990.00	43.50	38.49	40.10	4.71	3.38	49.98	74.00	-24.02	Peak	HORIZONTAL
6	17930.00	42.08	42.07	40.66	4.94	2.66	51.09	74.00	-22.91	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11ac20 5745 POWER 1A

Data: 53



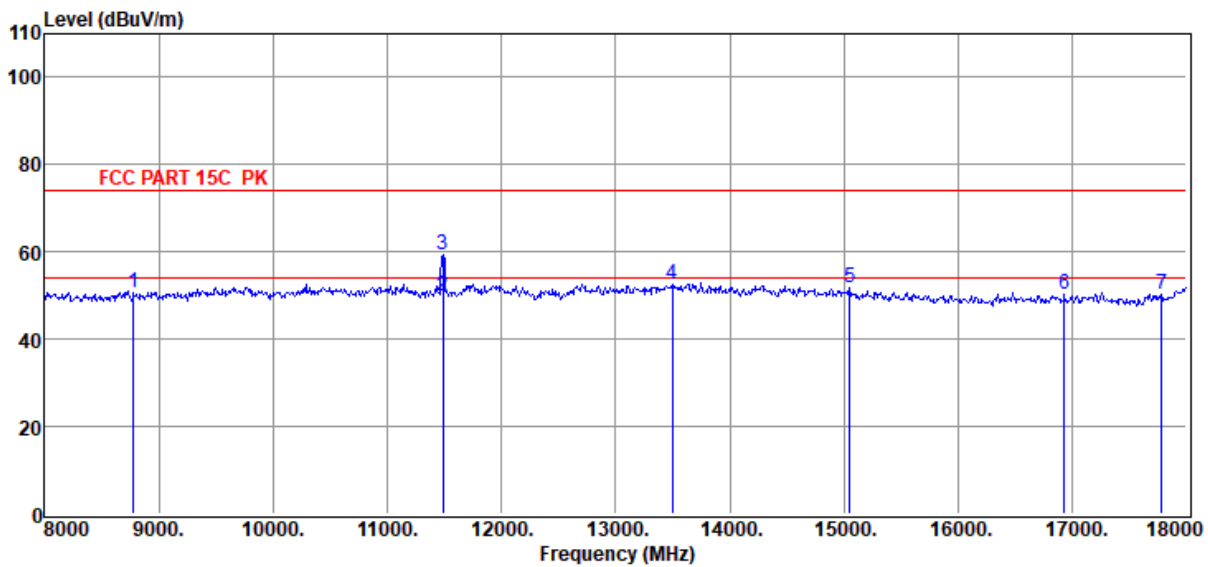
Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	9460.00	47.16	38.67	40.22	3.60	2.91	52.12	74.00	-21.88	Peak	HORIZONTAL
2	11490.00	43.09	39.01	40.15	3.97	2.50	48.42	54.00	-5.58	Average	HORIZONTAL
3	11490.00	51.58	39.01	40.15	3.97	2.50	56.91	74.00	-17.09	Peak	HORIZONTAL
4	13520.00	46.08	40.00	40.04	4.01	2.67	52.72	74.00	-21.28	Peak	HORIZONTAL
5	15600.00	45.18	38.62	39.78	4.57	2.52	51.11	74.00	-22.89	Peak	HORIZONTAL
6	16540.00	44.46	37.95	40.01	4.73	3.03	50.16	74.00	-23.84	Peak	HORIZONTAL
7	17880.00	42.26	41.76	40.63	4.93	2.70	51.02	74.00	-22.98	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5745 POWER 1A

Data: 54



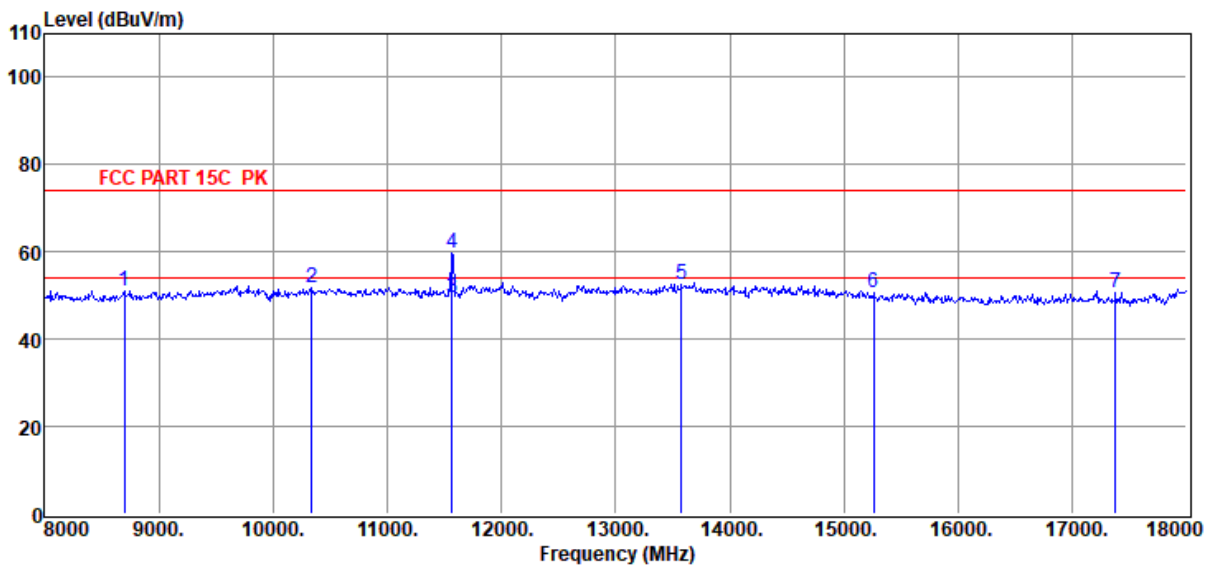
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8780.00	46.44	38.08	39.88	3.28	2.78	50.70	74.00	-23.30	Peak	VERTICAL
2	11490.00	44.50	39.01	40.15	3.97	2.50	49.83	54.00	-4.17	Average	VERTICAL
3	11490.00	54.17	39.01	40.15	3.97	2.50	59.50	74.00	-14.50	Peak	VERTICAL
4	13500.00	45.94	40.00	40.05	3.99	2.67	52.55	74.00	-21.45	Peak	VERTICAL
5	15050.00	45.11	39.43	39.61	4.48	2.40	51.81	74.00	-22.19	Peak	VERTICAL
6	16930.00	43.74	38.42	40.09	4.71	3.33	50.11	74.00	-23.89	Peak	VERTICAL
7	17780.00	42.06	41.14	40.57	4.90	2.78	50.31	74.00	-23.69	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5785 POWER 1A

Data: 51



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8700.00	46.94	38.00	39.87	3.26	2.78	51.11	74.00	-22.89	Peak	VERTICAL
2	10340.00	46.90	38.81	40.46	3.67	2.90	51.82	74.00	-22.18	Peak	VERTICAL
3	11570.00	44.35	39.03	40.14	3.98	2.48	49.70	54.00	-4.30	Average	VERTICAL
4	11570.00	54.41	39.03	40.14	3.98	2.48	59.76	74.00	-14.24	Peak	VERTICAL
5	13580.00	45.75	39.98	39.99	4.08	2.67	52.49	74.00	-21.51	Peak	VERTICAL
6	15260.00	44.39	39.14	39.68	4.52	2.44	50.81	74.00	-23.19	Peak	VERTICAL
7	17380.00	43.83	39.18	40.33	4.79	3.09	50.56	74.00	-23.44	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6

**Test Date** : 2022-04-08

**Tested By** : Kennys Zhang

**EUT** : Clevershare Hub

**Model Number** : Clevershare Hub

**Power Supply** : AC 120V/60Hz

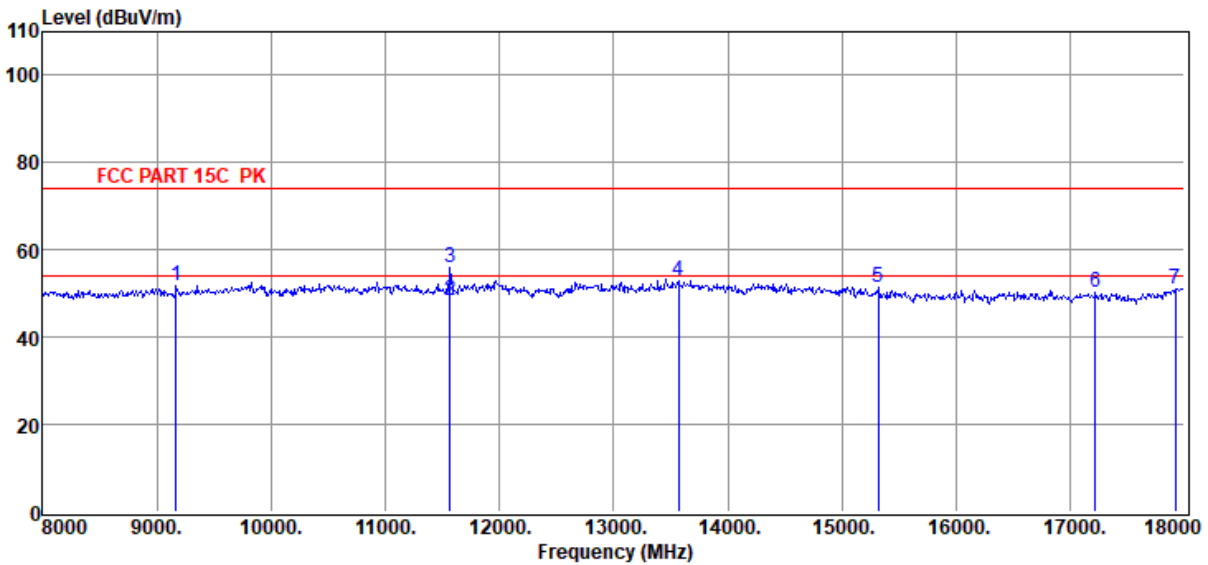
**Test Mode** : Tx Mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/HORIZONTAL

**Memo** : 11ac20 5785 POWER 1A

Data: 52



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9170.00	47.05	38.44	40.02	3.43	2.84	51.74	74.00	-22.26	Peak	HORIZONTAL
2	11570.00	43.10	39.03	40.14	3.98	2.48	48.45	54.00	-5.55	Average	HORIZONTAL
3	11570.00	50.50	39.03	40.14	3.98	2.48	55.85	74.00	-18.15	Peak	HORIZONTAL
4	13570.00	46.28	39.99	40.00	4.07	2.67	53.01	74.00	-20.99	Peak	HORIZONTAL
5	15320.00	45.23	39.05	39.70	4.53	2.46	51.57	74.00	-22.43	Peak	HORIZONTAL
6	17220.00	43.65	38.90	40.23	4.76	3.22	50.30	74.00	-23.70	Peak	HORIZONTAL
7	17920.00	42.12	42.00	40.65	4.94	2.67	51.08	74.00	-22.92	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6

**Test Date** : 2022-04-08

**Tested By** : Kennys Zhang

**EUT** : Clevershare Hub

**Model Number** : Clevershare Hub

**Power Supply** : AC 120V/60Hz

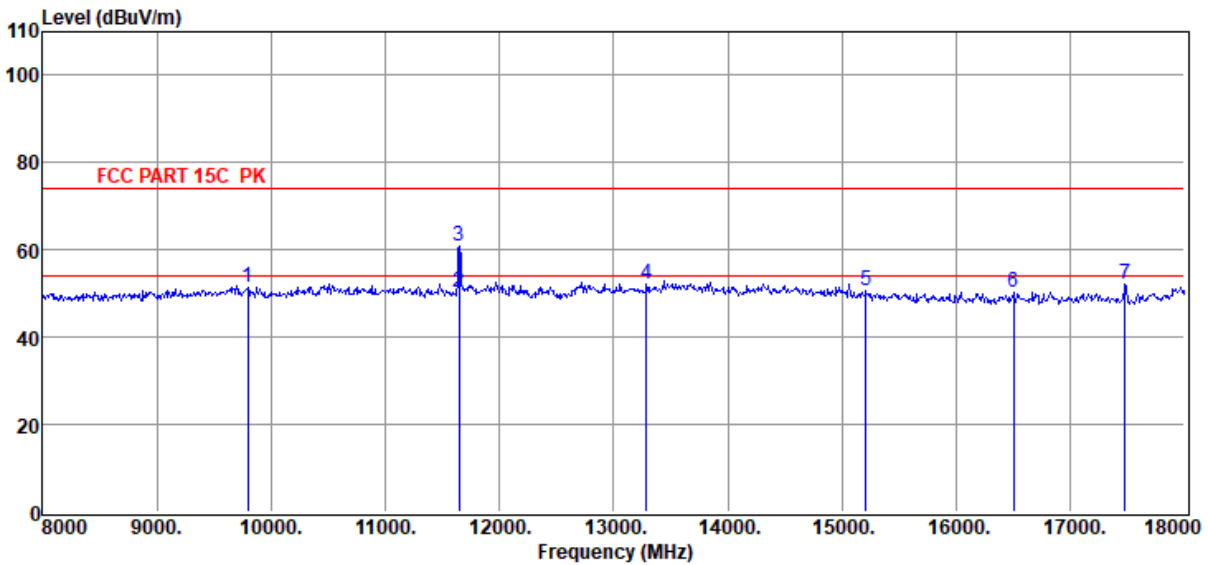
**Test Mode** : Tx Mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/HORIZONTAL

**Memo** : 11ac20 5825 POWER 1A

Data: 49



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9800.00	46.67	38.52	40.46	3.65	2.99	51.37	74.00	-22.63	Peak	HORIZONTAL
2	11650.00	44.81	39.06	40.13	3.99	2.46	50.19	54.00	-3.81	Average	HORIZONTAL
3	11650.00	55.38	39.06	40.13	3.99	2.46	60.76	74.00	-13.24	Peak	HORIZONTAL
4	13290.00	45.73	39.83	40.20	4.16	2.66	52.18	74.00	-21.82	Peak	HORIZONTAL
5	15210.00	44.18	39.21	39.66	4.51	2.43	50.67	74.00	-23.33	Peak	HORIZONTAL
6	16500.00	44.53	37.90	40.00	4.73	2.99	50.15	74.00	-23.85	Peak	HORIZONTAL
7	17480.00	45.22	39.36	40.39	4.82	3.02	52.03	74.00	-21.97	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

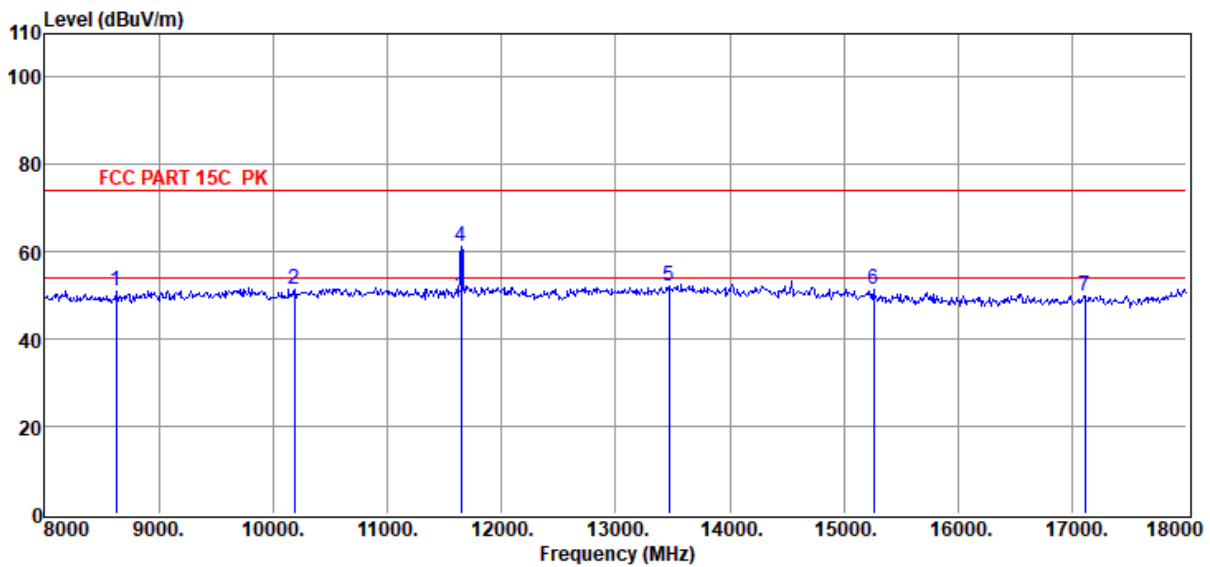
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11ac20 5825 POWER 1A

Data: 50



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8630.00	46.88	37.93	39.86	3.25	2.77	50.97	74.00	-23.03	Peak	VERTICAL
2	10190.00	46.80	38.63	40.52	3.67	2.96	51.54	74.00	-22.46	Peak	VERTICAL
3	11650.00	44.21	39.06	40.13	3.99	2.46	49.59	54.00	-4.41	Average	VERTICAL
4	11650.00	55.88	39.06	40.13	3.99	2.46	61.26	74.00	-12.74	Peak	VERTICAL
5	13470.00	45.44	39.98	40.07	4.01	2.67	52.03	74.00	-21.97	Peak	VERTICAL
6	15260.00	44.86	39.14	39.68	4.52	2.44	51.28	74.00	-22.72	Peak	VERTICAL
7	17110.00	43.48	38.70	40.17	4.73	3.30	50.04	74.00	-23.96	Peak	VERTICAL

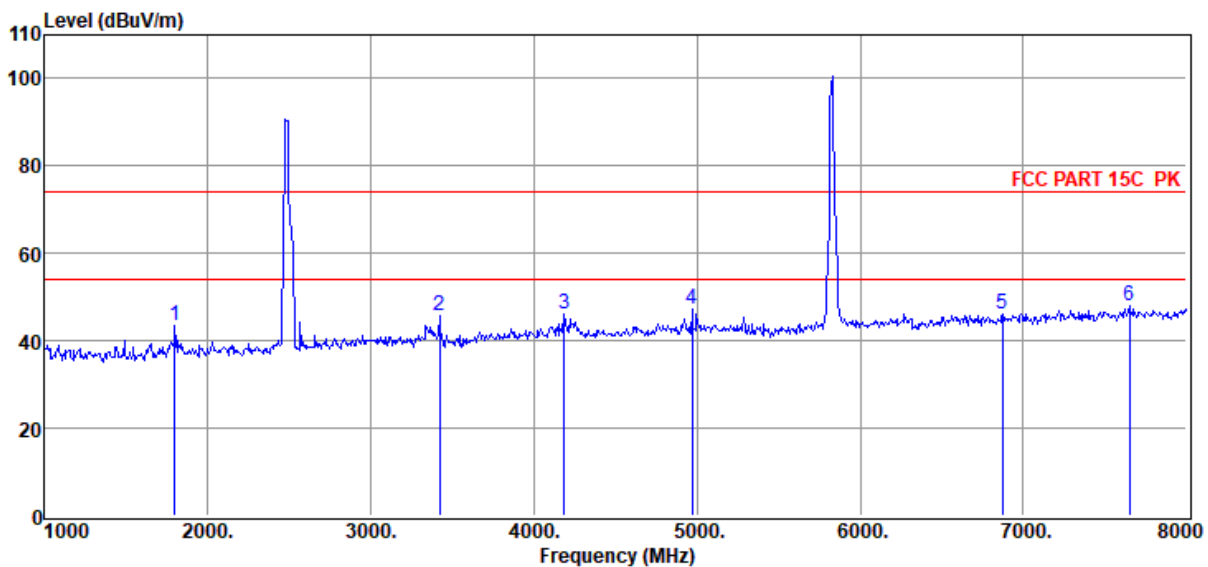
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G .EM6  
**Test Date** : 2022-04-20 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V 60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : W7613E 11 N20 5825 + WB800D BT 2480

Data: 154



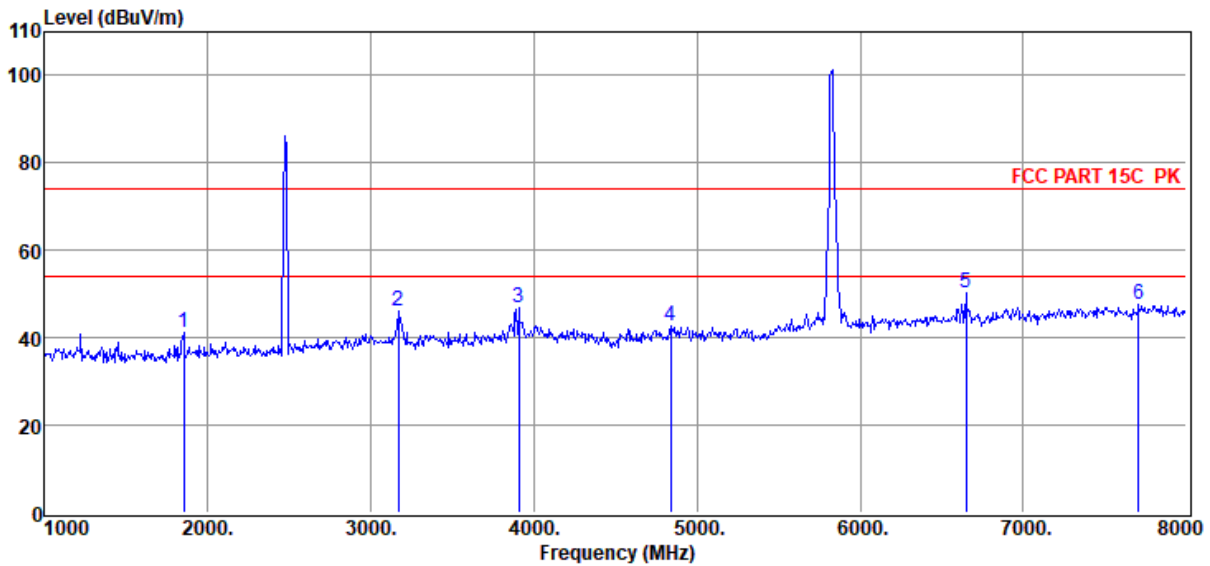
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1798.00	54.34	26.17	39.10	1.51	0.64	43.56	74.00	-30.44	Peak	VERTICAL
2	3422.00	53.92	29.42	40.03	1.72	0.82	45.85	74.00	-28.15	Peak	VERTICAL
3	4185.00	51.89	31.25	40.24	2.20	0.87	45.97	74.00	-28.03	Peak	VERTICAL
4	4969.00	51.07	33.00	40.39	2.53	0.91	47.12	74.00	-26.88	Peak	VERTICAL
5	6873.00	46.16	35.80	39.80	3.08	0.96	46.20	74.00	-27.80	Peak	VERTICAL
6	7650.00	47.03	36.58	39.76	3.16	1.09	48.10	74.00	-25.90	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G .EM6  
**Test Date** : 2022-04-20 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V 60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : W7613E 11 N20 5825 + WB800D BT 2480

Data: 155



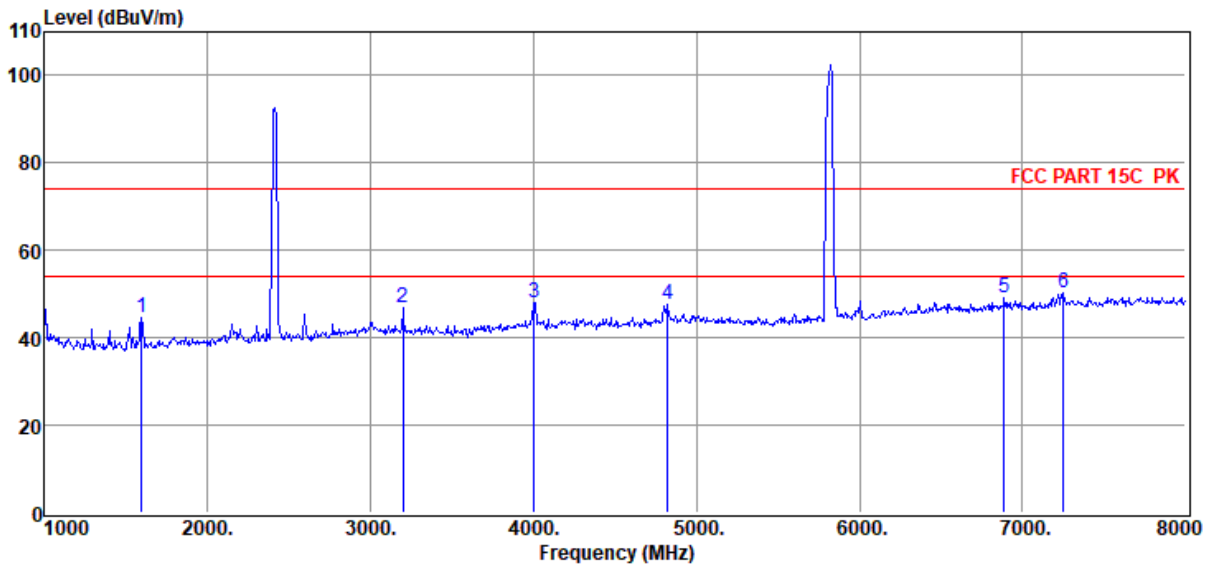
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1854.00	51.98	26.32	39.18	1.54	0.65	41.31	74.00	-32.69	Peak	HORIZONTAL
2	3170.00	54.16	29.47	39.95	1.81	0.80	46.29	74.00	-27.71	Peak	HORIZONTAL
3	3905.00	53.23	30.78	40.17	2.03	0.85	46.72	74.00	-27.28	Peak	HORIZONTAL
4	4836.00	47.03	32.58	40.37	2.48	0.90	42.62	74.00	-31.38	Peak	HORIZONTAL
5	6649.00	50.73	35.44	39.98	3.20	1.00	50.39	74.00	-23.61	Peak	HORIZONTAL
6	7706.00	46.42	36.65	39.77	3.16	1.11	47.57	74.00	-26.43	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G .EM6  
**Test Date** : 2022-04-20 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V 60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : W7613E 11 N20 5825 + WB800D B 2412

Data: 156



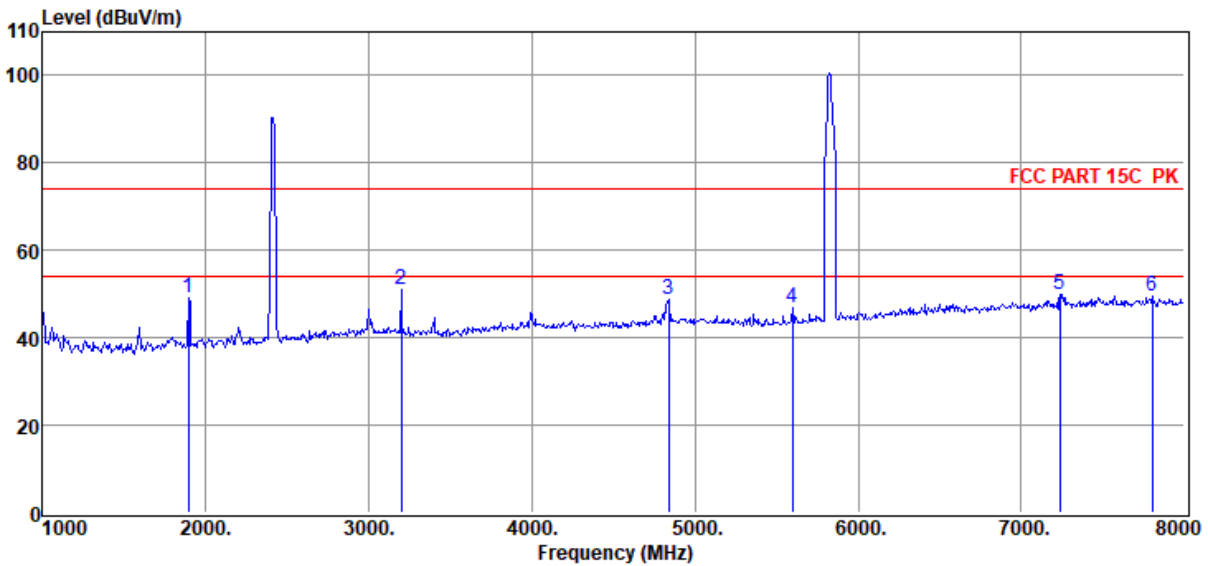
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1595.00	55.63	25.65	38.79	1.42	0.61	44.52	74.00	-29.48	Peak	VERTICAL
2	3198.00	54.58	29.46	39.96	1.80	0.80	46.68	74.00	-27.32	Peak	VERTICAL
3	4003.00	54.24	31.10	40.20	2.11	0.86	48.11	74.00	-25.89	Peak	VERTICAL
4	4822.00	51.98	32.53	40.36	2.48	0.90	47.53	74.00	-26.47	Peak	VERTICAL
5	6887.00	49.10	35.82	39.79	3.08	0.95	49.16	74.00	-24.84	Peak	VERTICAL
6	7251.00	49.89	36.20	39.73	3.08	0.99	50.43	74.00	-23.57	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G .EM6  
**Test Date** : 2022-04-20 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V 60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : W7613E 11 N20 5825 + WB800D B 2412

Data: 157



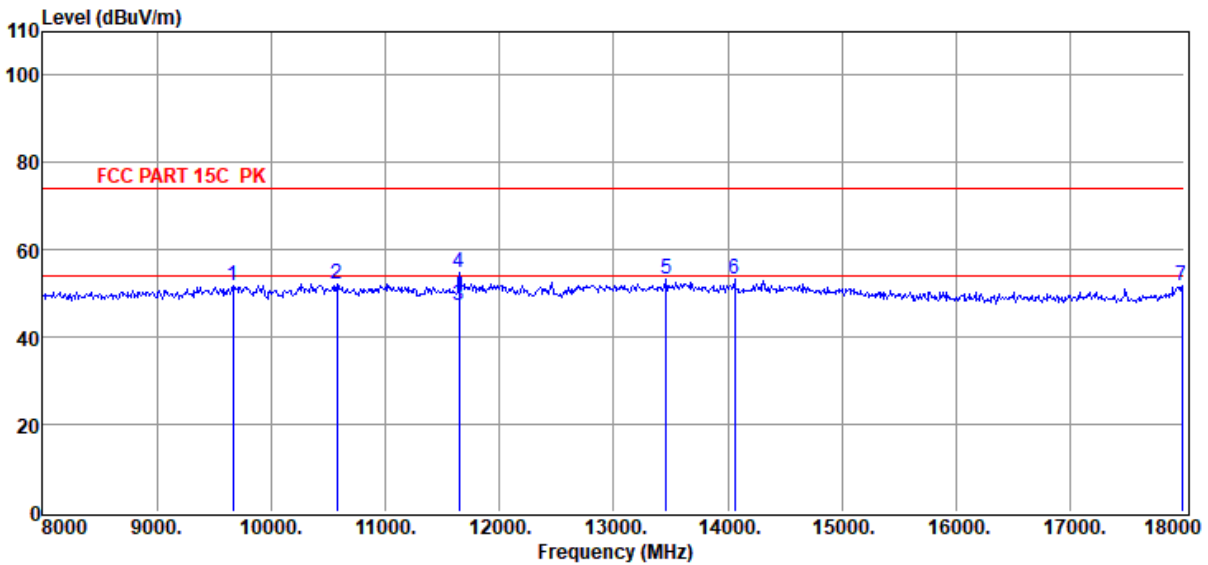
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1896.00	59.68	26.43	39.24	1.55	0.66	49.08	74.00	-24.92	Peak	HORIZONTAL
2	3198.00	58.88	29.46	39.96	1.80	0.80	50.98	74.00	-23.02	Peak	HORIZONTAL
3	4836.00	53.30	32.58	40.37	2.48	0.90	48.89	74.00	-25.11	Peak	HORIZONTAL
4	5599.00	50.52	33.04	40.46	2.66	1.05	46.81	74.00	-27.19	Peak	HORIZONTAL
5	7237.00	49.22	36.19	39.72	3.08	0.99	49.76	74.00	-24.24	Peak	HORIZONTAL
6	7804.00	48.16	36.76	39.78	3.17	1.13	49.44	74.00	-24.56	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G .EM6  
**Test Date** : 2022-04-19 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : W7613E 11 N20 5825 + WB800D BT 2480

Data: 150



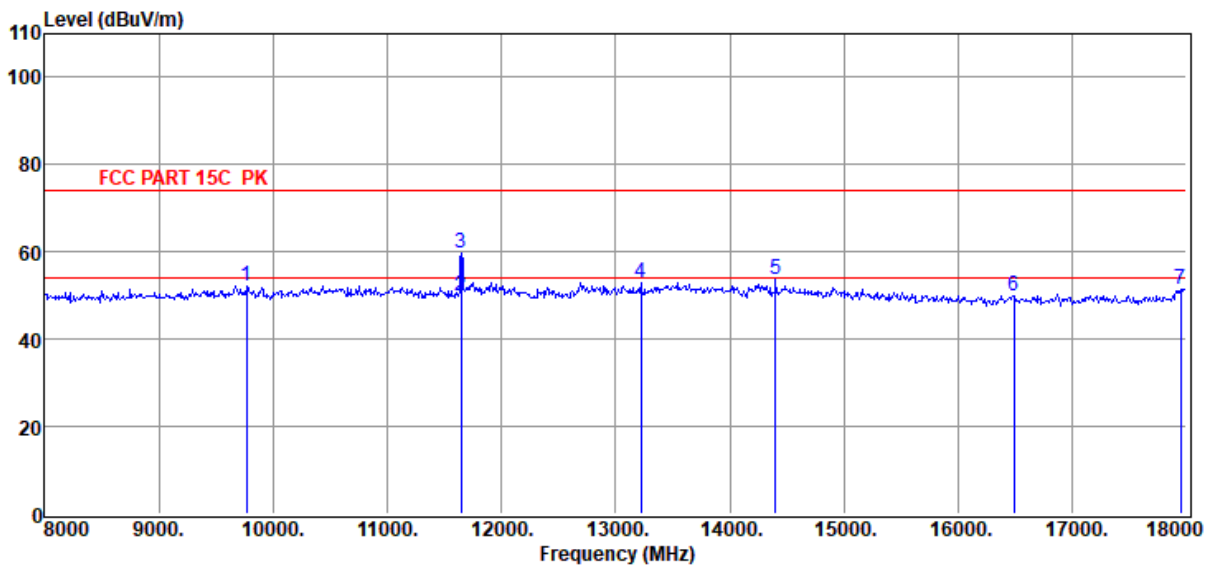
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9670.00	46.85	38.60	40.37	3.64	2.96	51.68	74.00	-22.32	Peak	HORIZONTAL
2	10580.00	47.13	39.05	40.37	3.69	2.80	52.30	74.00	-21.70	Peak	HORIZONTAL
3	11650.00	41.77	39.06	40.13	3.99	2.46	47.15	54.00	-6.85	Average	HORIZONTAL
4	11650.00	49.30	39.06	40.13	3.99	2.46	54.68	74.00	-19.32	Peak	HORIZONTAL
5	13460.00	46.89	39.97	40.08	4.02	2.67	53.47	74.00	-20.53	Peak	HORIZONTAL
6	14060.00	45.81	39.90	39.69	4.51	2.67	53.20	74.00	-20.80	Peak	HORIZONTAL
7	17980.00	42.50	42.38	40.69	4.95	2.63	51.77	74.00	-22.23	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G .EM6  
**Test Date** : 2022-04-19 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : W7613E 11N20 5825 + WB800D BT 2480

Data: 151



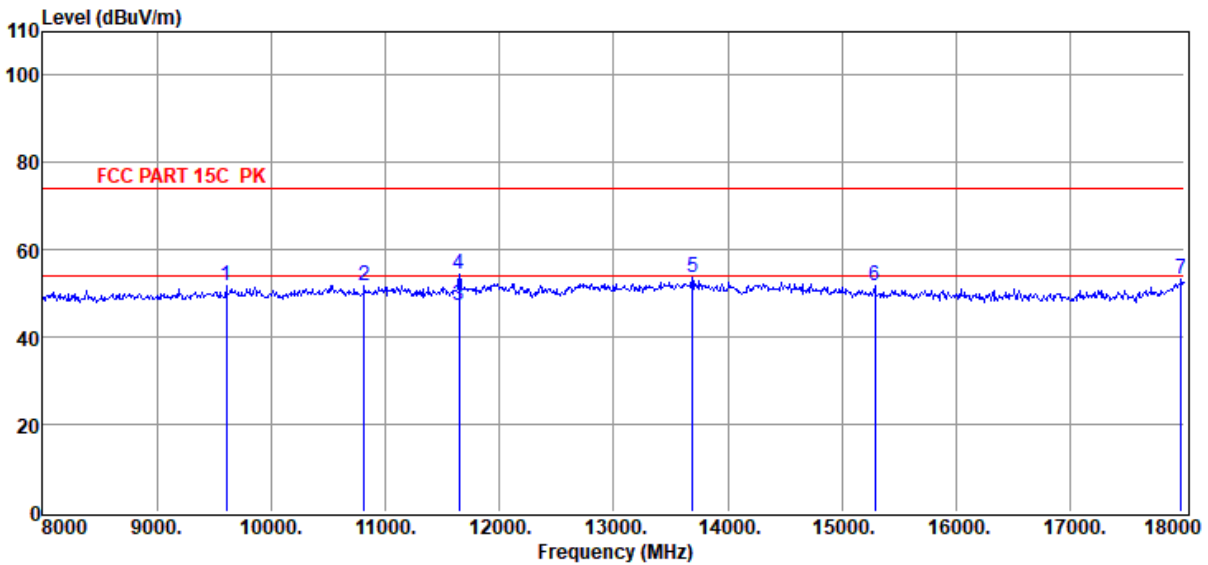
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9770.00	47.44	38.54	40.44	3.65	2.98	52.17	74.00	-21.83	Peak	VERTICAL
2	11650.00	44.58	39.06	40.13	3.99	2.46	49.96	54.00	-4.04	Average	VERTICAL
3	11650.00	54.22	39.06	40.13	3.99	2.46	59.60	74.00	-14.40	Peak	VERTICAL
4	13220.00	46.49	39.78	40.25	4.22	2.66	52.90	74.00	-21.10	Peak	VERTICAL
5	14400.00	46.30	39.90	39.66	4.39	2.57	53.50	74.00	-20.50	Peak	VERTICAL
6	16490.00	44.41	37.90	40.00	4.73	2.99	50.03	74.00	-23.97	Peak	VERTICAL
7	17950.00	42.12	42.19	40.67	4.95	2.65	51.24	74.00	-22.76	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G .EM6  
**Test Date** : 2022-04-19 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V 60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : W7613E 11 N20 5825 + WB800D B 2412

Data: 148



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	9610.00	47.63	38.63	40.33	3.63	2.36	51.92	74.00	-22.08	Peak	HORIZONTAL
2	10820.00	46.81	39.19	40.27	3.75	2.40	51.88	74.00	-22.12	Peak	HORIZONTAL
3	11650.00	41.76	39.06	40.13	3.99	2.39	47.07	54.00	-6.93	Average	HORIZONTAL
4	11650.00	49.19	39.06	40.13	3.99	2.39	54.50	74.00	-19.50	Peak	HORIZONTAL
5	13690.00	46.41	39.96	39.92	4.20	2.92	53.57	74.00	-20.43	Peak	HORIZONTAL
6	15290.00	44.99	39.09	39.69	4.52	2.76	51.67	74.00	-22.33	Peak	HORIZONTAL
7	17970.00	42.93	42.31	40.68	4.95	3.78	53.29	74.00	-20.71	Peak	HORIZONTAL

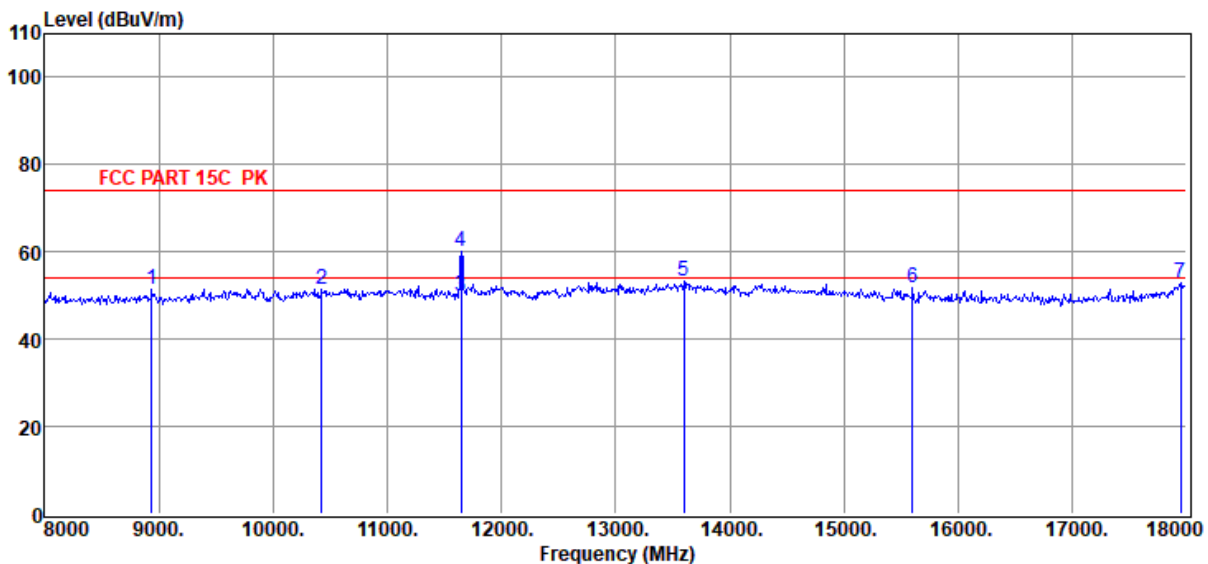
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#  
**Test Date** : 2022-04-19  
**EUT** : Clevershare Hub  
**Power Supply** : AC 120V 60Hz  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa  
**Memo** : W7613E 11 N20 5825 + WB800D B 2412

**D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G .EM6**  
**Tested By** : Kennys Zhang  
**Model Number** : Clevershare Hub  
**Test Mode** : Tx Mode  
**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL

Data: 149



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	8940.00	47.56	38.24	39.89	3.32	2.19	51.42	74.00	-22.58	Peak	VERTICAL
2	10430.00	46.78	38.92	40.43	3.67	2.44	51.38	74.00	-22.62	Peak	VERTICAL
3	11650.00	44.47	39.06	40.13	3.99	2.39	49.78	54.00	-4.22	Average	VERTICAL
4	11650.00	54.75	39.06	40.13	3.99	2.39	60.06	74.00	-13.94	Peak	VERTICAL
5	13600.00	46.36	39.98	39.98	4.10	2.92	53.38	74.00	-20.62	Peak	VERTICAL
6	15600.00	45.40	38.62	39.78	4.57	2.92	51.73	74.00	-22.27	Peak	VERTICAL
7	17950.00	42.70	42.19	40.67	4.95	3.78	52.95	74.00	-21.05	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

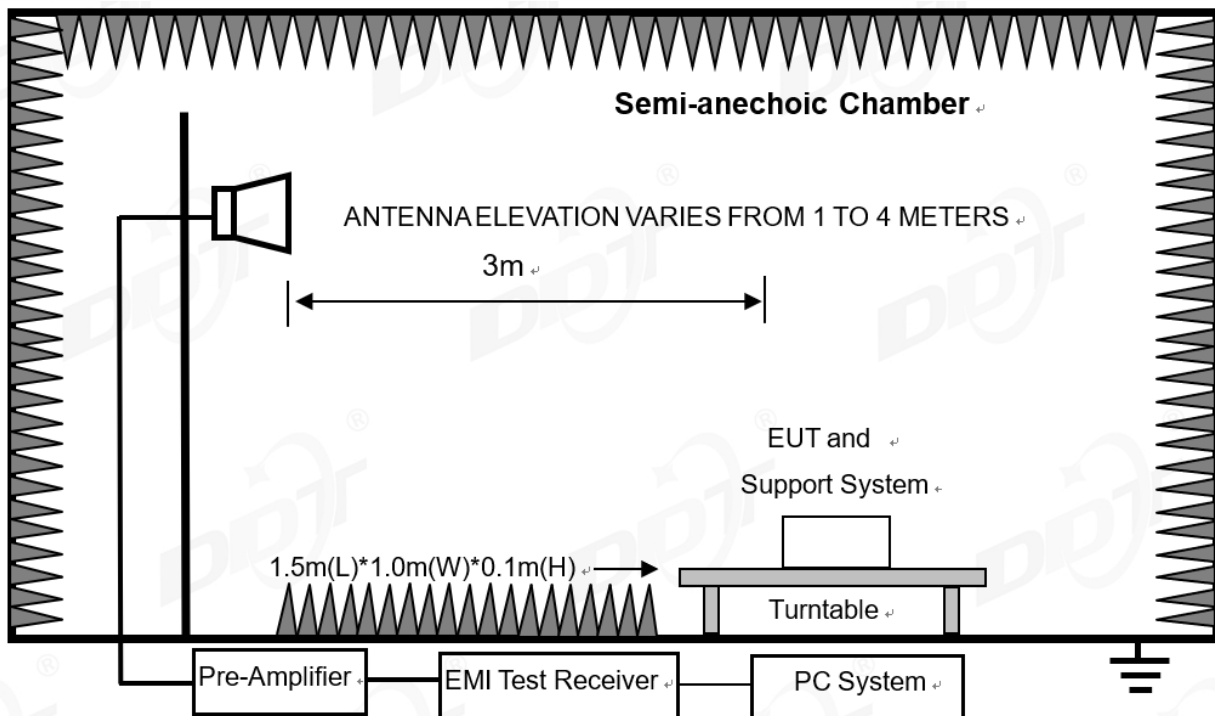
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



## 9. Band Edge Compliance

### 9.1. Block diagram of test setup



### 9.2. Limit

For transmitters operating in the 5.15-5.25 GHz and 5.725-5.85 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

$$-27 \text{ dBm/MHz Limit} = 95.2 + \text{EIRP}[\text{dBm}] = 95.2 - 27 = 68.2 \text{ dB}\mu\text{V/m}$$

### 9.3. Test Procedure

Same with clause 8.3 except change investigated frequency range from 5.15-5.25 GHz, 5.725-5.85 GHz.

Remark: All restriction band have been tested, and only the ANT1 worst case is shown in report.

### 9.4. Test result

#### Pass. (See below detailed test result)

Note: As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak 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 average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP .EM6

**Test Date** : 2022-04-08

**Tested By** : Kennys Zhang

**EUT** : Clevershare Hub

**Model Number** : Clevershare Hub

**Power Supply** : AC 120V/60Hz

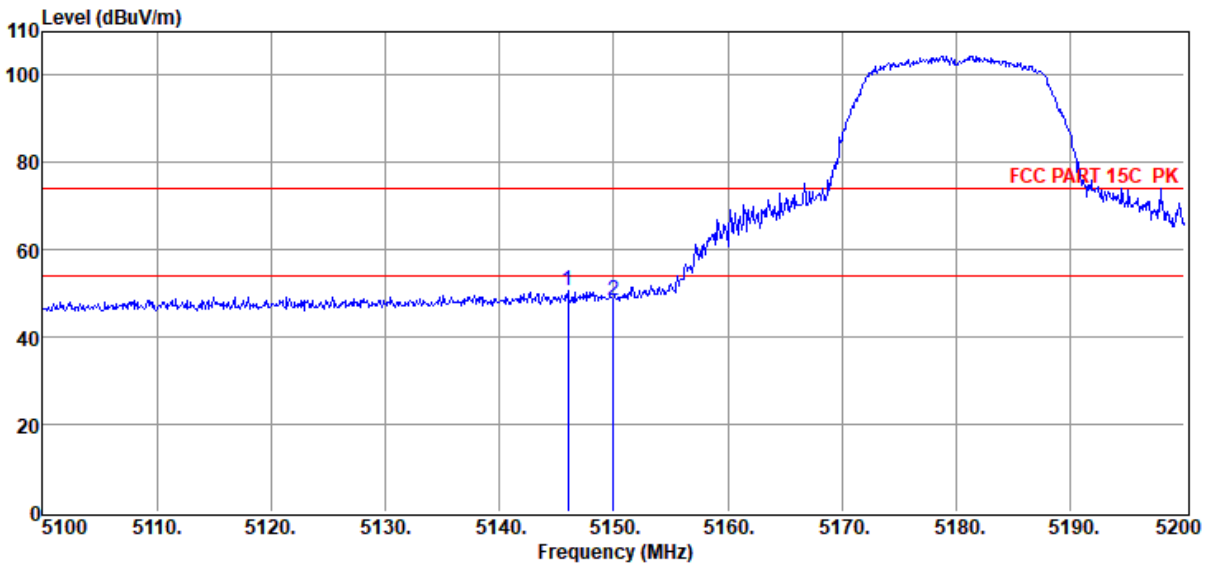
**Test Mode** : Tx Mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/HORIZONTAL

**Memo** : 11A 5180 POWER 1E

Data: 61



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5146.00	54.44	33.01	40.41	2.55	0.94	50.53	74.00	-23.47	Peak	HORIZONTAL
2	5150.00	52.13	33.01	40.42	2.55	0.94	48.21	74.00	-25.79	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

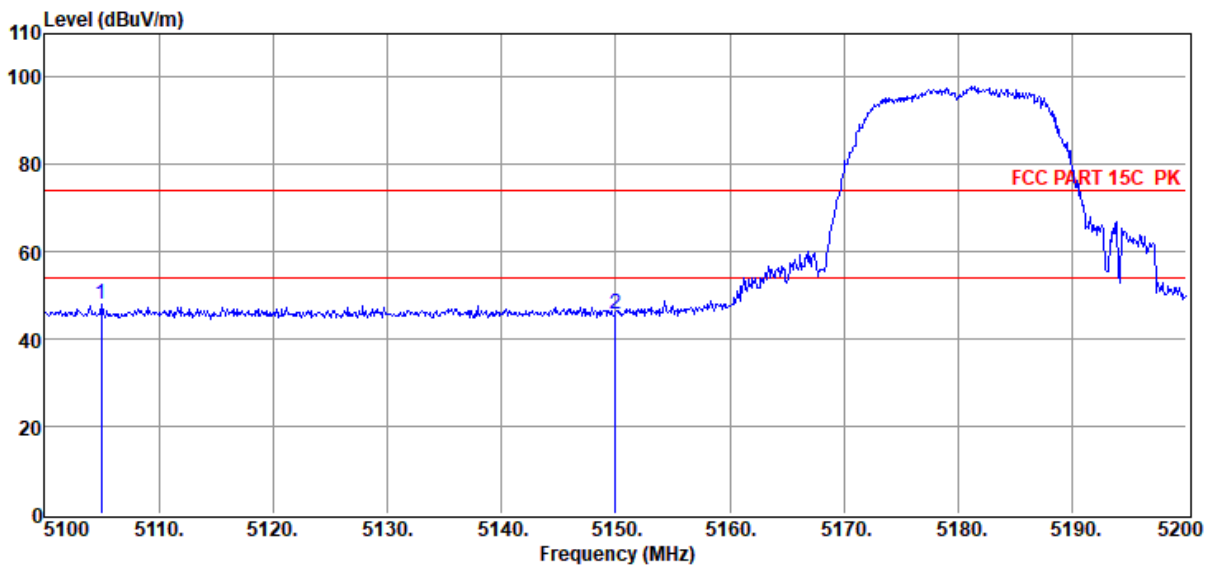
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5180 POWER 1E

Data: 62



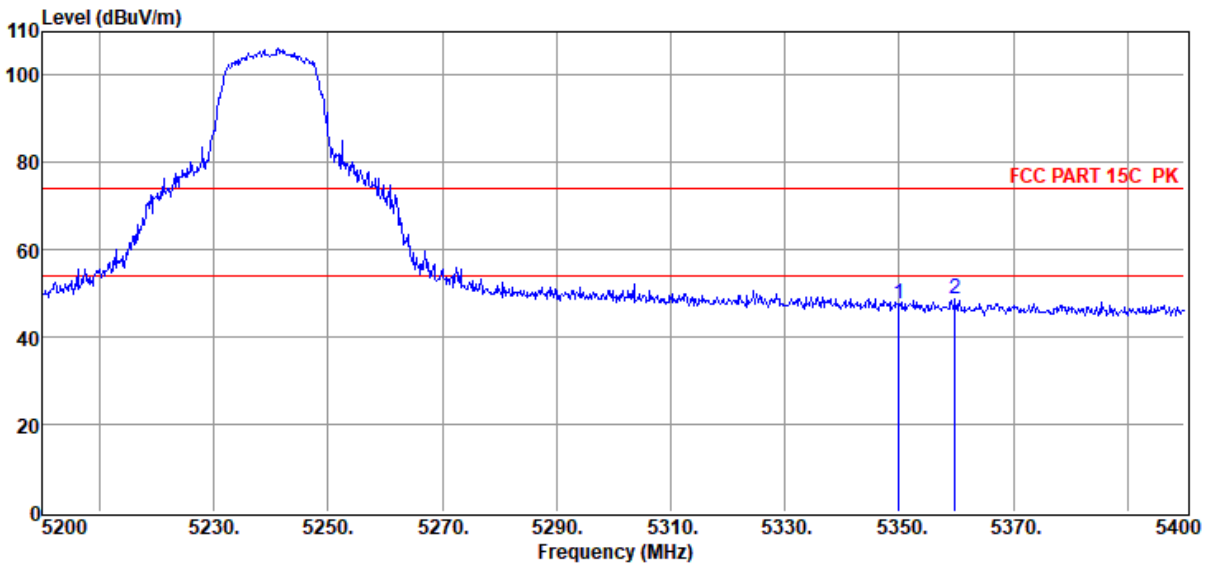
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5105.00	51.95	33.04	40.41	2.55	0.93	48.06	74.00	-25.94	Peak	VERTICAL
2	5150.00	49.57	33.01	40.42	2.55	0.94	45.65	74.00	-28.35	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11A 5240 POWER 1E

Data: 65



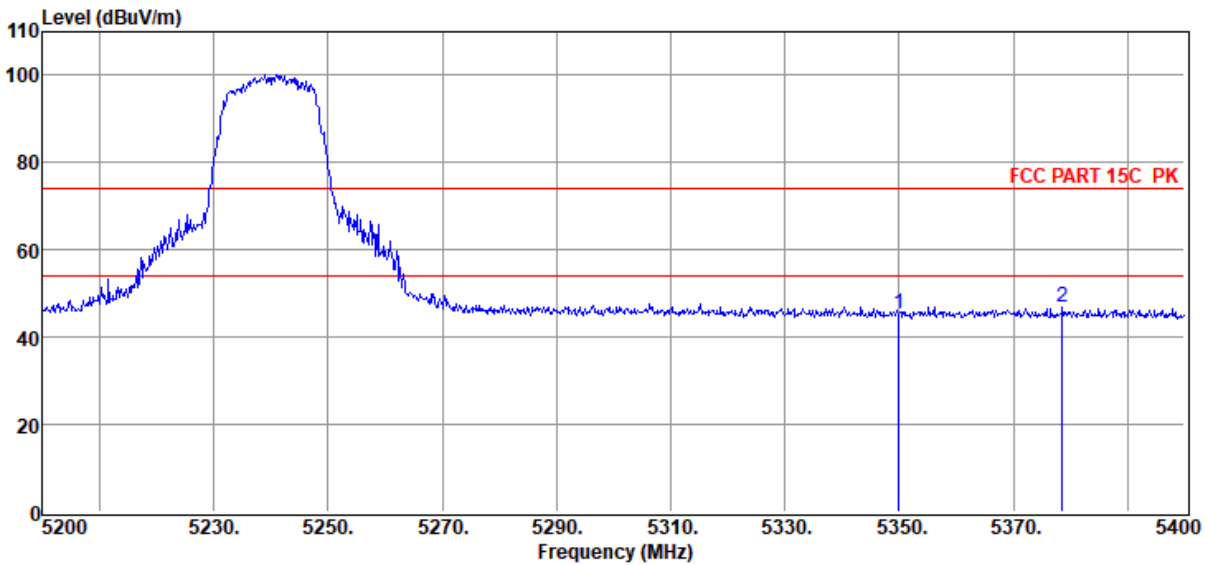
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	51.46	32.89	40.44	2.56	0.99	47.46	74.00	-26.54	Peak	HORIZONTAL
2	5359.80	52.66	32.88	40.44	2.56	0.99	48.65	74.00	-25.35	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11A 5240 POWER 1E

Data: 66



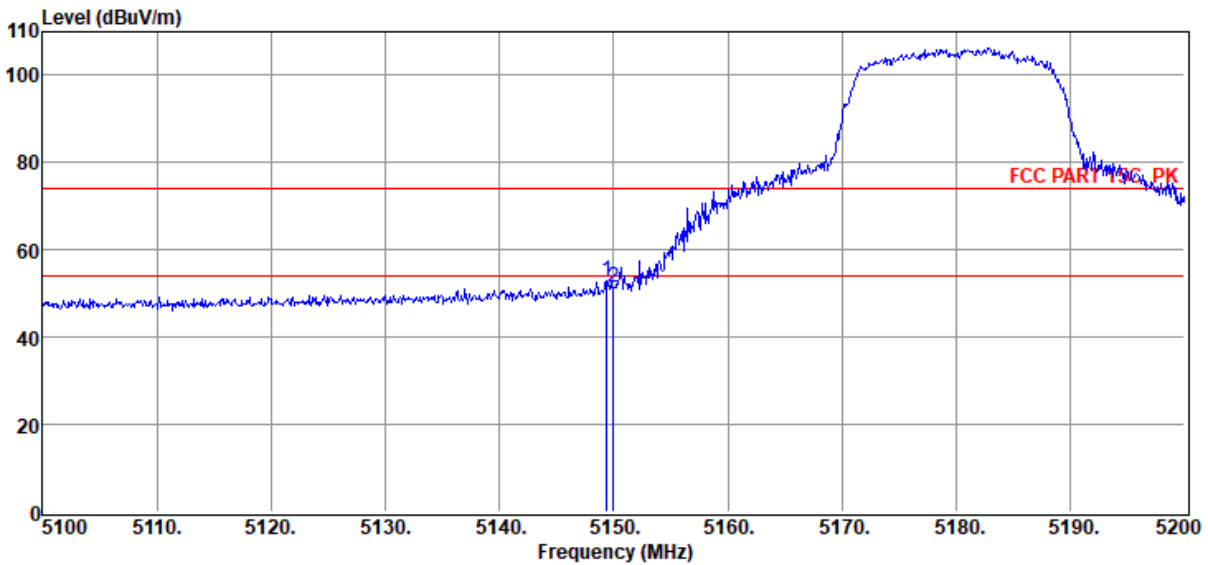
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	49.24	32.89	40.44	2.56	0.99	45.24	74.00	-28.76	Peak	VERTICAL
2	5378.60	50.94	32.87	40.44	2.56	1.00	46.93	74.00	-27.07	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N20 5180 POWER 1E

Data: 69



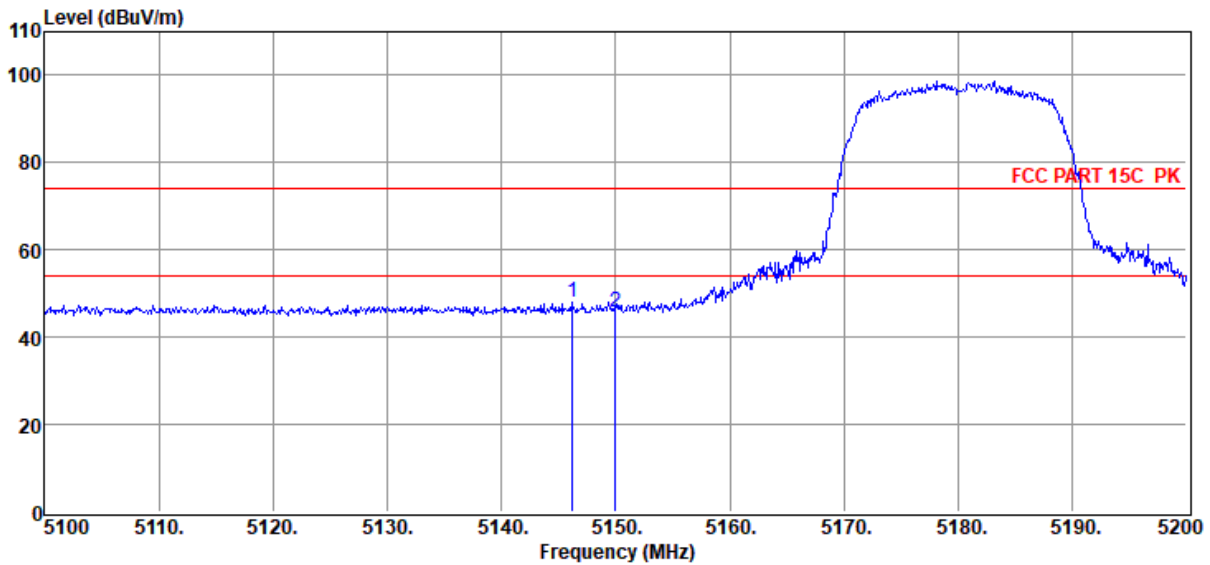
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5149.40	56.81	33.01	40.41	2.55	0.94	52.90	74.00	-21.10	Peak	HORIZONTAL
2	5150.00	55.22	33.01	40.42	2.55	0.94	51.30	74.00	-22.70	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N20 5180 POWER 1E

Data: 70



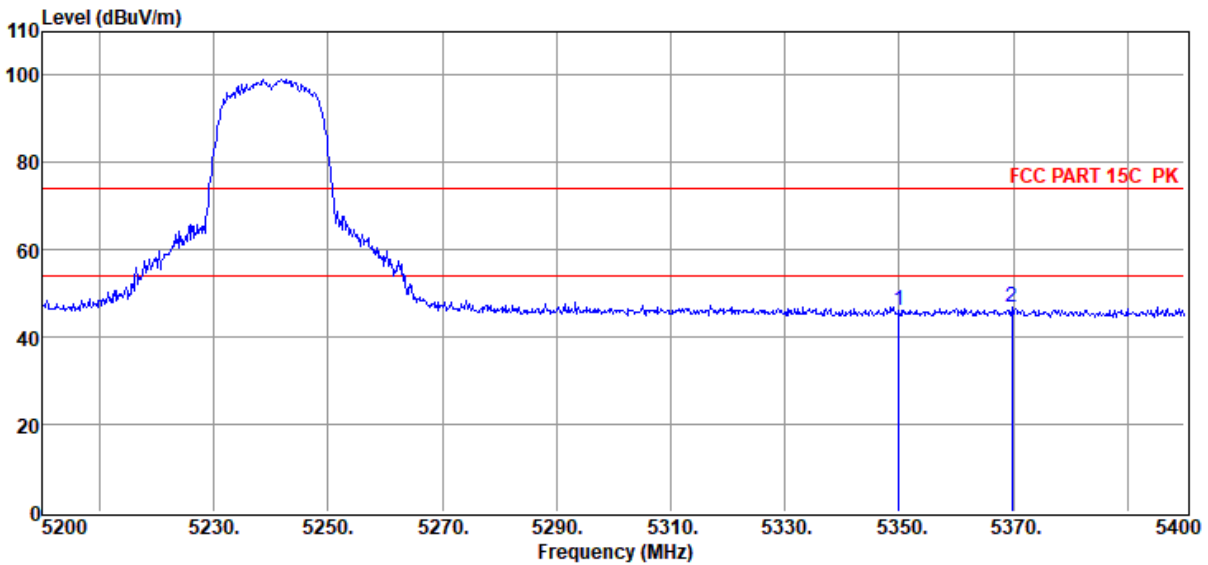
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5146.20	51.79	33.01	40.41	2.55	0.94	47.88	74.00	-26.12	Peak	VERTICAL
2	5150.00	49.77	33.01	40.42	2.55	0.94	45.85	74.00	-28.15	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N20 5240 POWER 1E

Data: 71



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	50.01	32.89	40.44	2.56	0.99	46.01	74.00	-27.99	Peak	VERTICAL
2	5369.80	50.90	32.88	40.44	2.56	1.00	46.90	74.00	-27.10	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6

**Test Date** : 2022-04-08

**Tested By** : Kennys Zhang

**EUT** : Clevershare Hub

**Model Number** : Clevershare Hub

**Power Supply** : AC 120V/60Hz

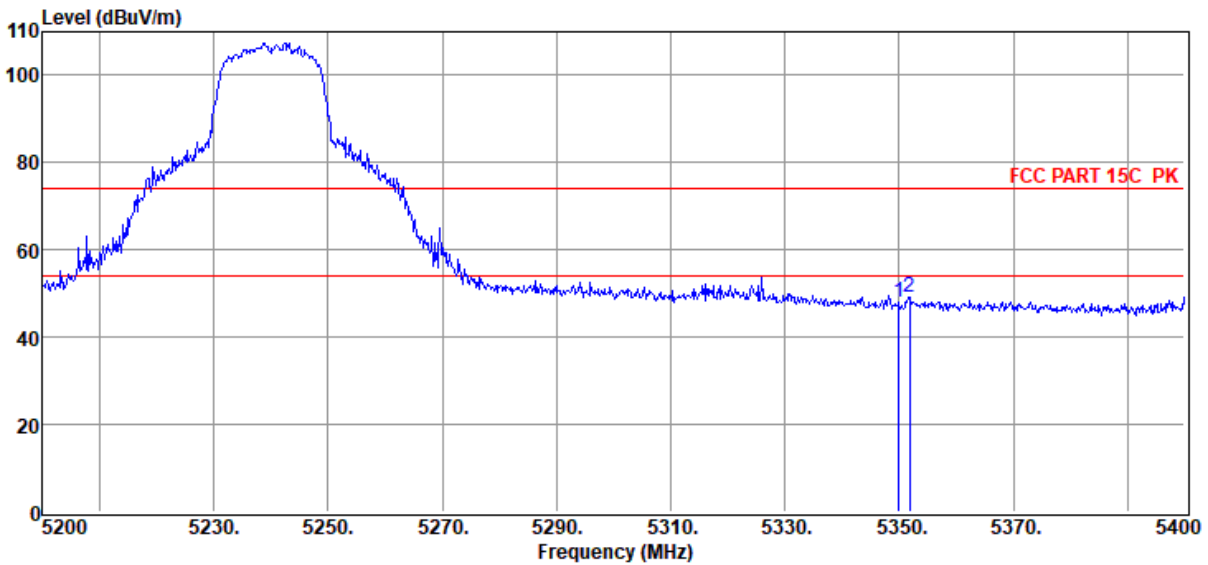
**Test Mode** : Tx Mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL

**Memo** : 11N20 5240 POWER 1E

Data: 72



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	51.92	32.89	40.44	2.56	0.99	47.92	74.00	-26.08	Peak	HORIZONTAL
2	5351.80	53.13	32.89	40.44	2.56	0.99	49.13	74.00	-24.87	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

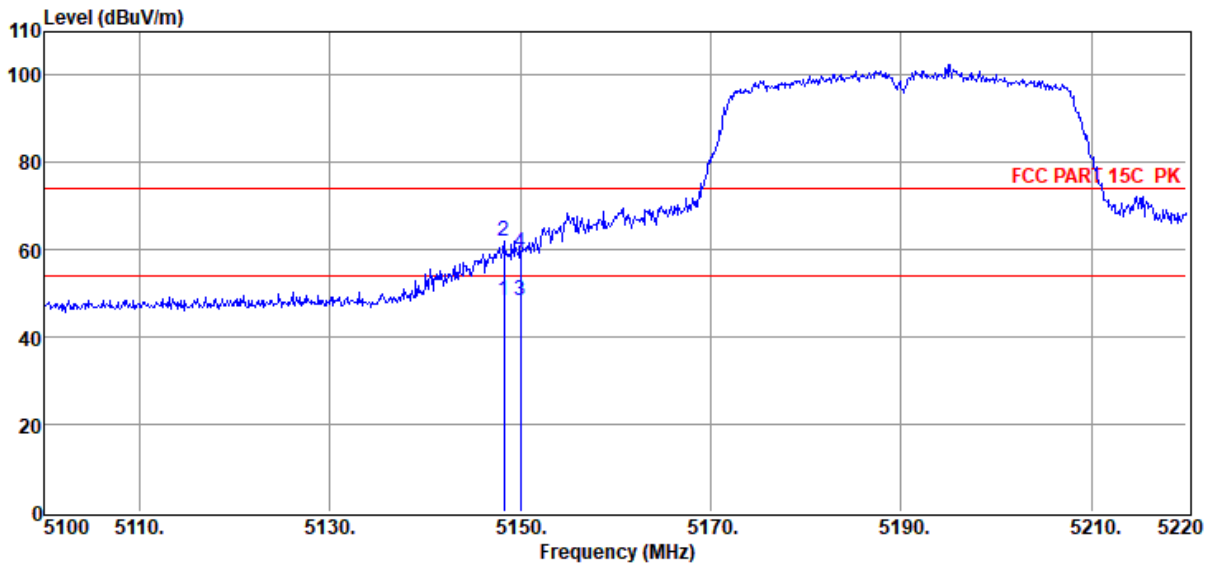
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP .EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D  
3#/3m/HORIZONTAL  
**Memo** : 11N40 5190 POWER 1A

Data: 73



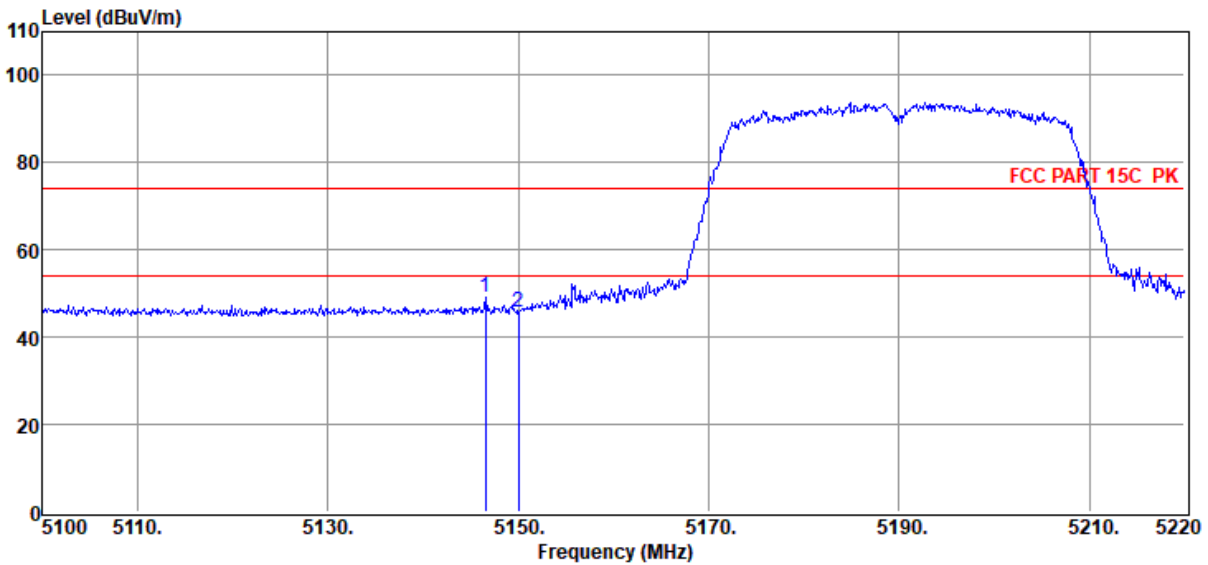
Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5148.24	52.11	33.01	40.41	2.55	0.94	48.20	54.00	-5.80	Average	HORIZONTAL
2	5148.24	66.07	33.01	40.41	2.55	0.94	62.16	74.00	-11.84	Peak	HORIZONTAL
3	5150.04	52.29	33.01	40.42	2.55	0.94	48.37	54.00	-5.63	Average	HORIZONTAL
4	5150.04	63.39	33.01	40.42	2.55	0.94	59.47	74.00	-14.53	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3# D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6  
**Test Date** : 2022-04-08 **Tested By** : Kennys Zhang  
**EUT** : Clevershare Hub **Model Number** : Clevershare Hub  
**Power Supply** : AC 120V/60Hz **Test Mode** : Tx Mode  
**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa **Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL  
**Memo** : 11N40 5190 POWER 1A

Data: 74



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5146.56	52.97	33.01	40.41	2.55	0.94	49.06	74.00	-24.94	Peak	VERTICAL
2	5150.04	49.79	33.01	40.42	2.55	0.94	45.87	74.00	-28.13	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

# TR-4-E-009 Radiated Emission Test Result

**Test Site** : DDT 3m Chamber 3#

D:\E3 6.111\2022 Report Data\Q21121709-2E\FCC ABOVE 1G AP.EM6

**Test Date** : 2022-04-08

**Tested By** : Kennys Zhang

**EUT** : Clevershare Hub

**Model Number** : Clevershare Hub

**Power Supply** : AC 120V/60Hz

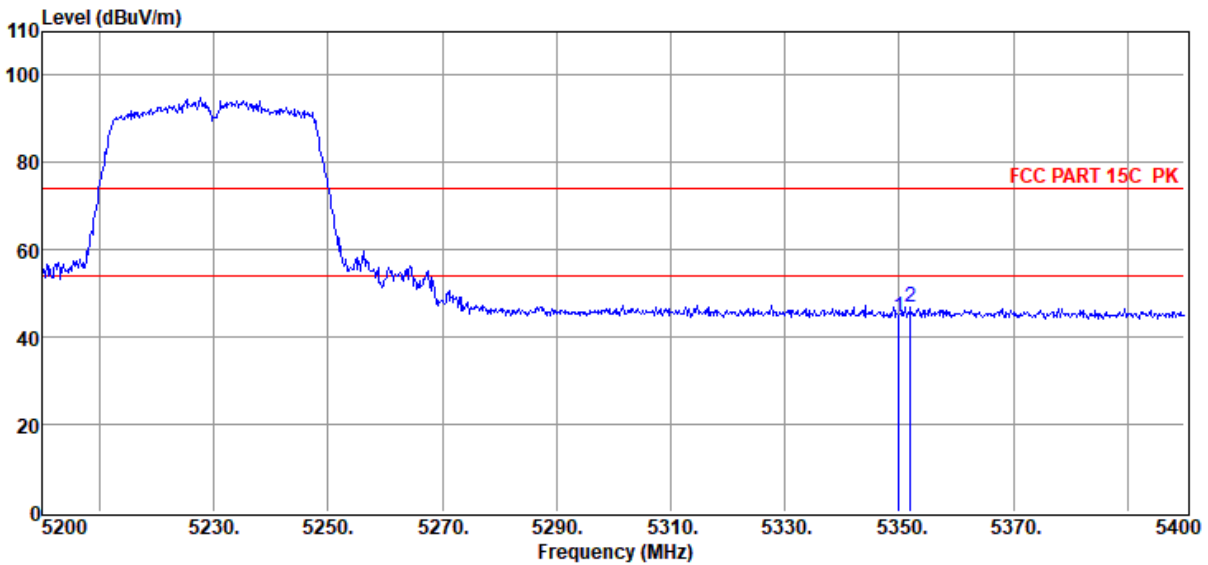
**Test Mode** : Tx Mode

**Condition** : Temp:24.5°C,Humi:55%,Press:100.1kPa

**Antenna/Distance** : 2021 BBHA 9120D 3#/3m/VERTICAL

**Memo** : 11N40 5230 POWER 1A

Data: 75



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Filter Factor dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	5350.00	48.65	32.89	40.44	2.56	0.99	44.65	74.00	-29.35	Peak	VERTICAL
2	5352.00	51.01	32.89	40.44	2.56	0.99	47.01	74.00	-26.99	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss + Filter Factor - PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.