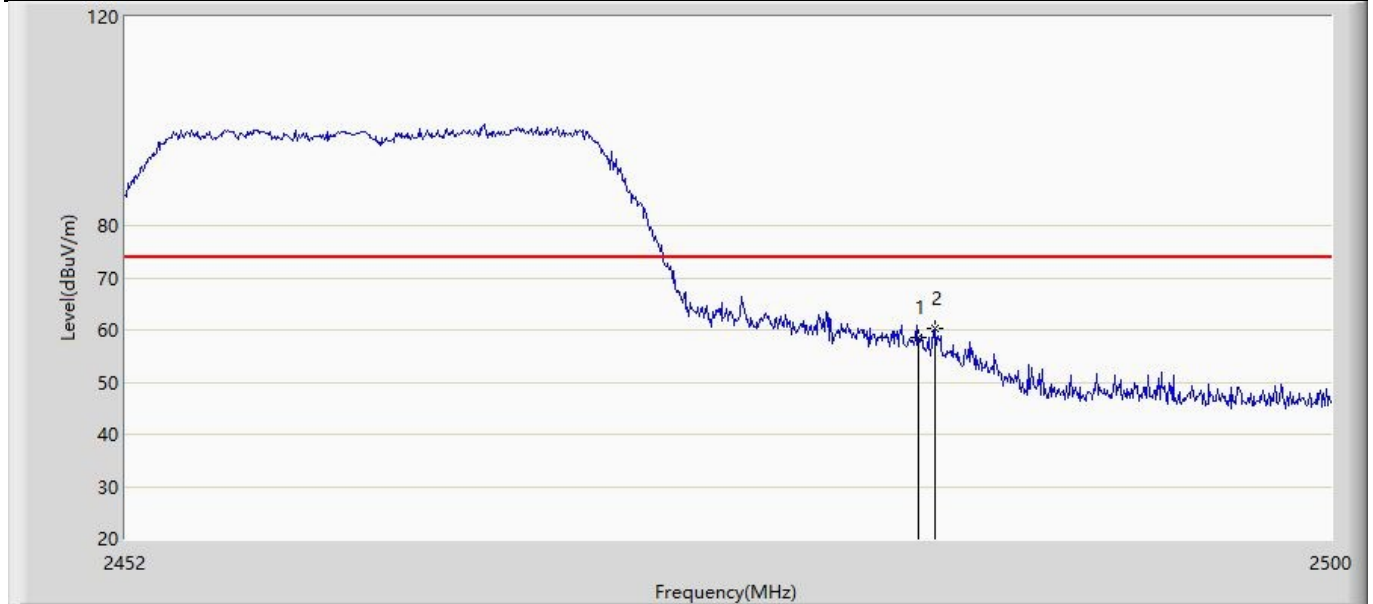
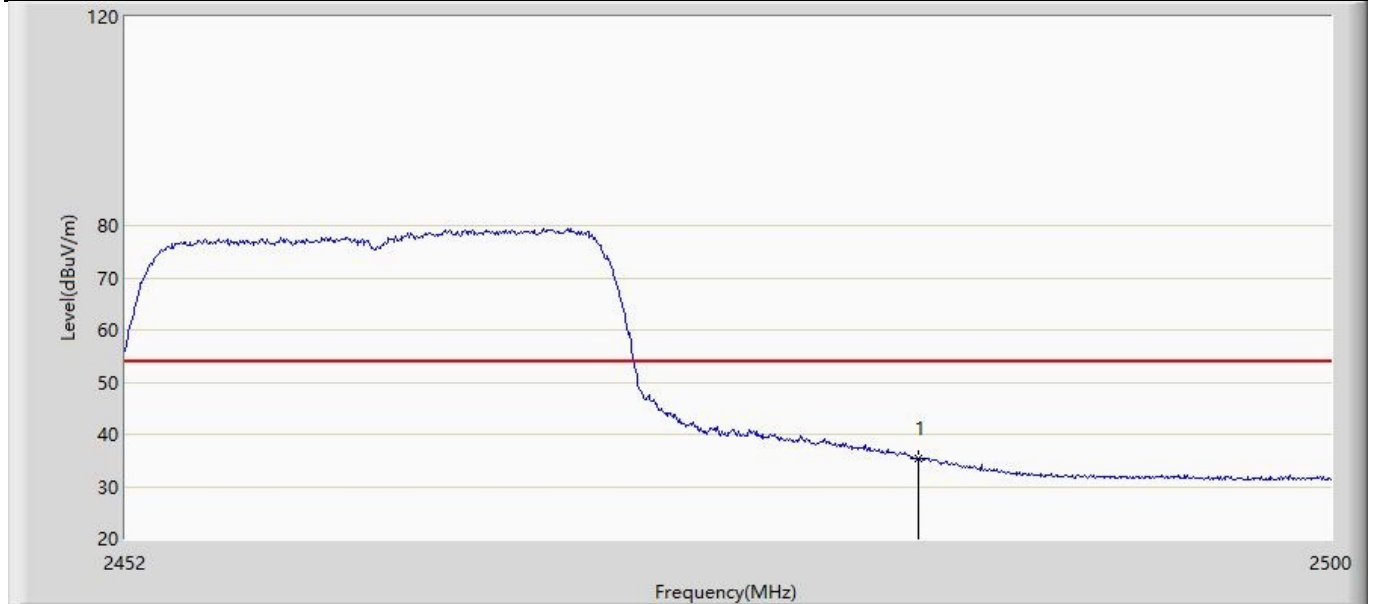


Profile: 2250816R	Page No.: 22
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 11n20	



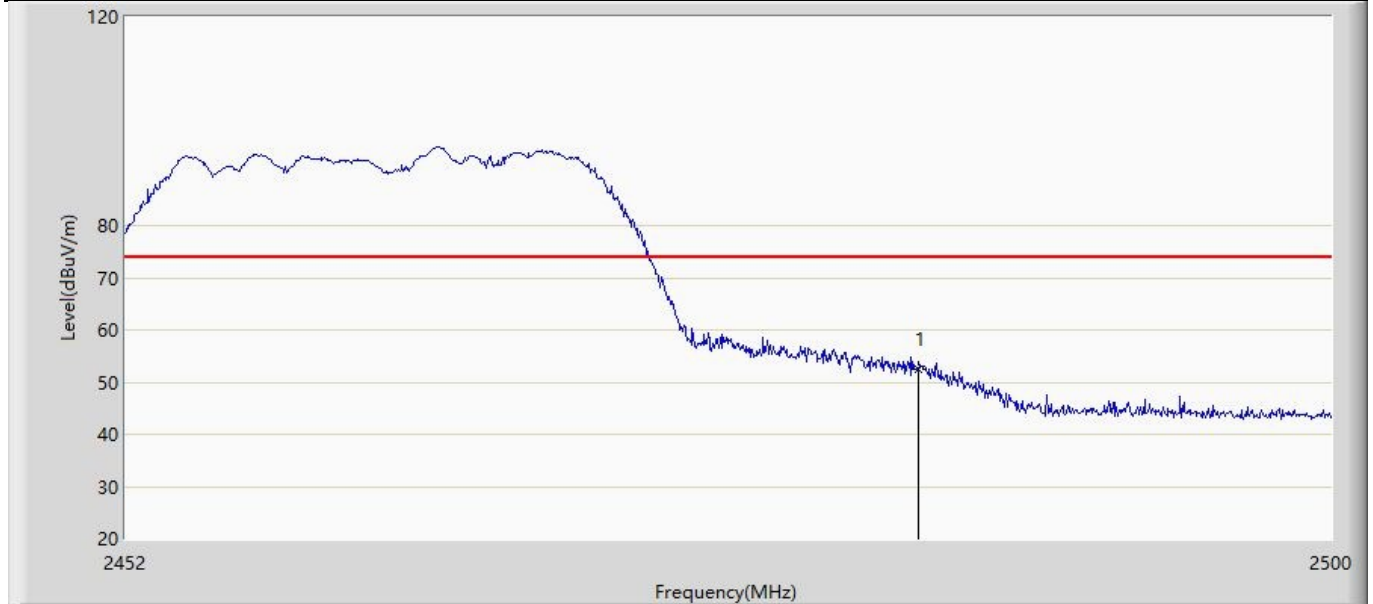
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	58.410	26.984	-15.590	74.000	31.426	PK
2	*	2484.160	60.198	28.770	-13.802	74.000	31.428	PK

Profile: 2250816R	Page No.: 23
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.246	3.820	-18.754	54.000	31.426	AV

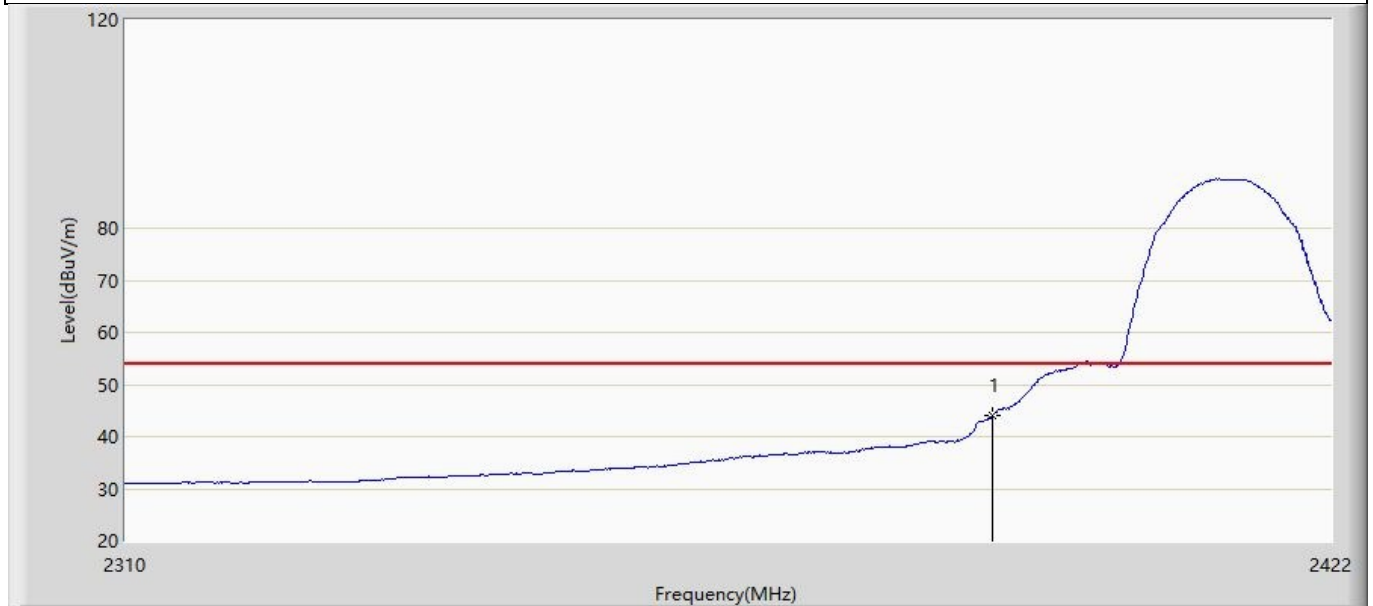
Profile: 2250816R	Page No.: 24
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	52.359	20.933	-21.641	74.000	31.426	PK

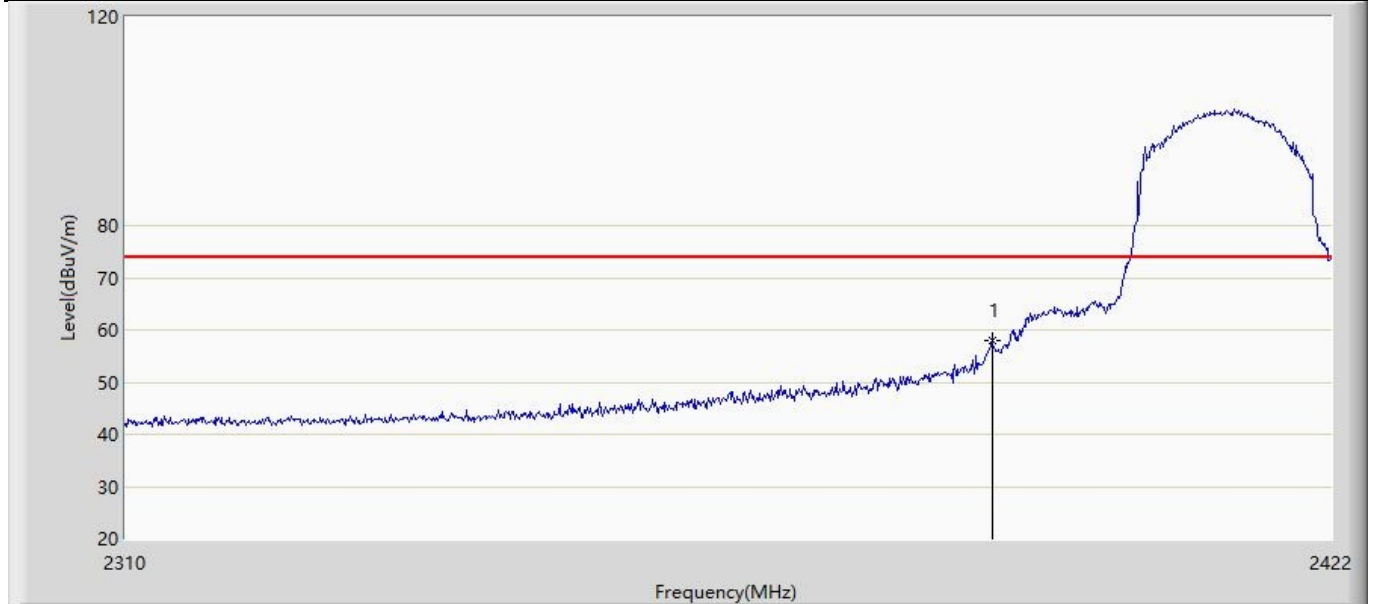
**CDD Antenna1+2:**

Profile: 2250816R	Page No.: 1
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 00:39
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 11b	



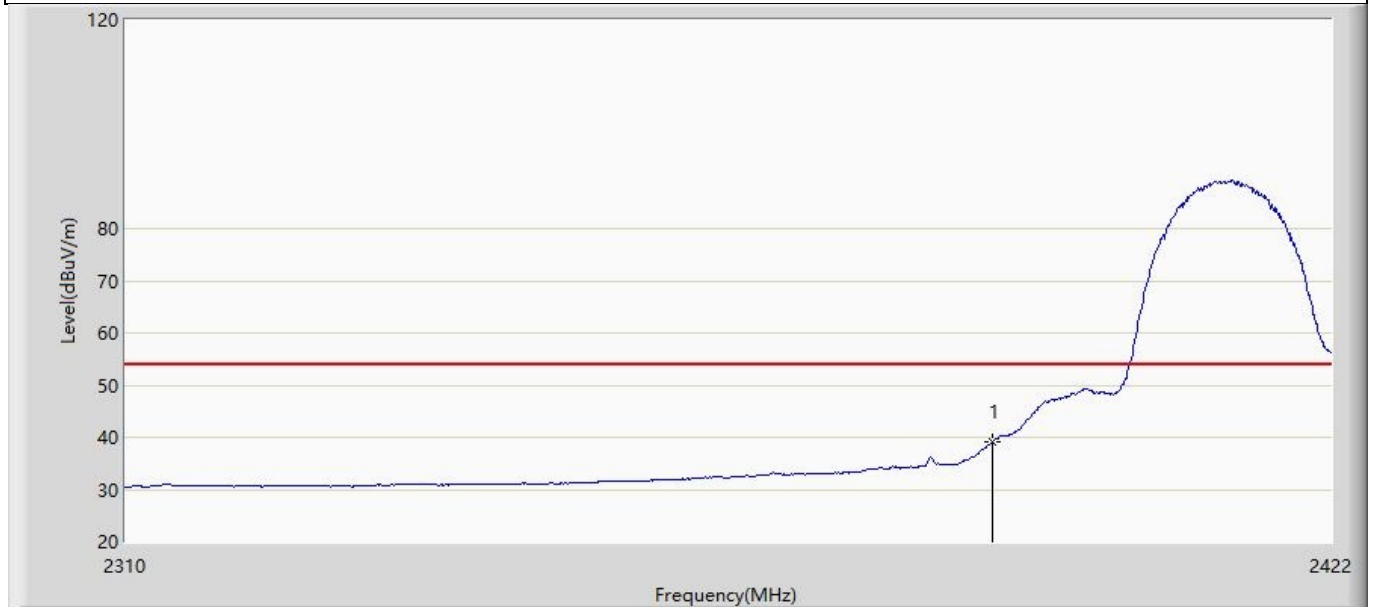
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	43.947	12.805	-10.053	54.000	31.141	AV

Profile: 2250816R	Page No.: 2
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 11b	



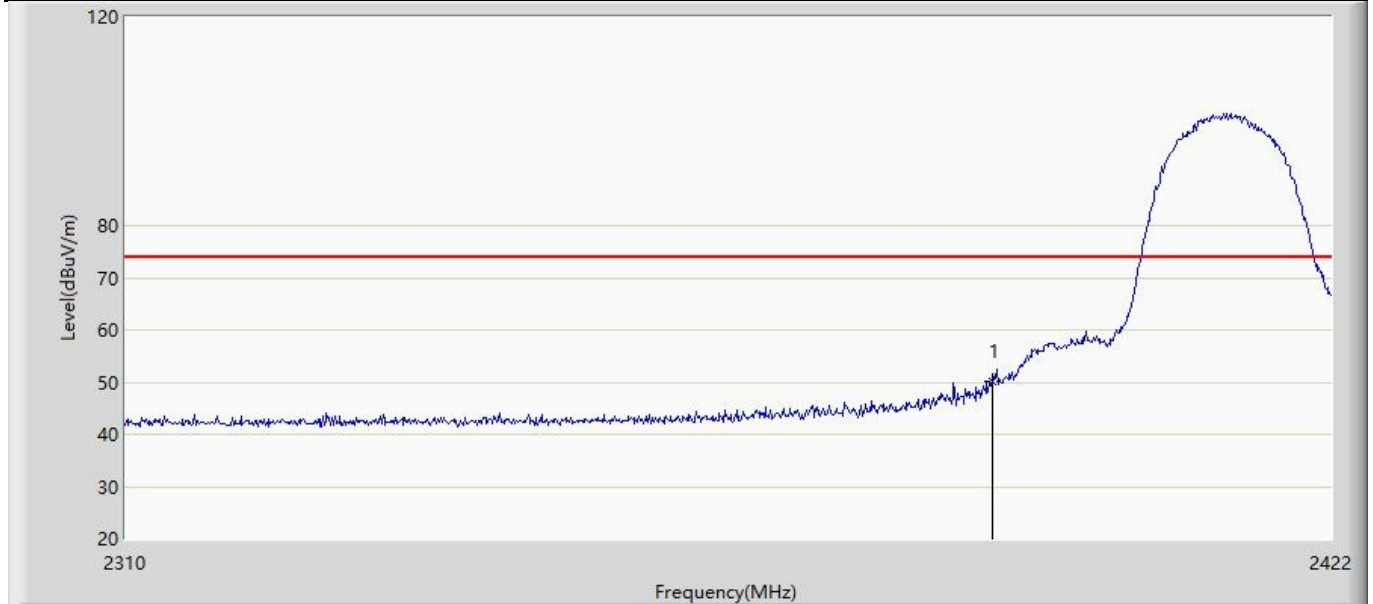
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	58.018	26.876	-15.982	74.000	31.141	PK

Profile: 2250816R	Page No.: 3
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2412MHz by 11b	



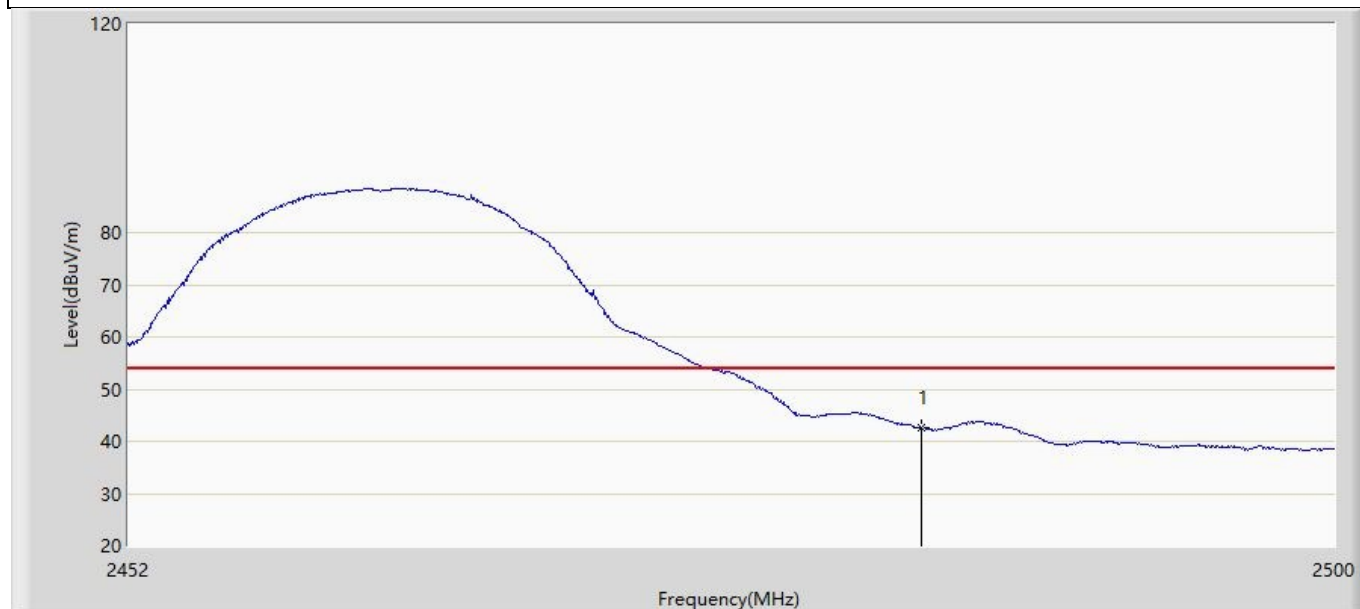
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	39.032	7.890	-14.968	54.000	31.141	AV

Profile: 2250816R	Page No.: 4
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2402MHz by 11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.043	18.901	-23.957	74.000	31.141	PK

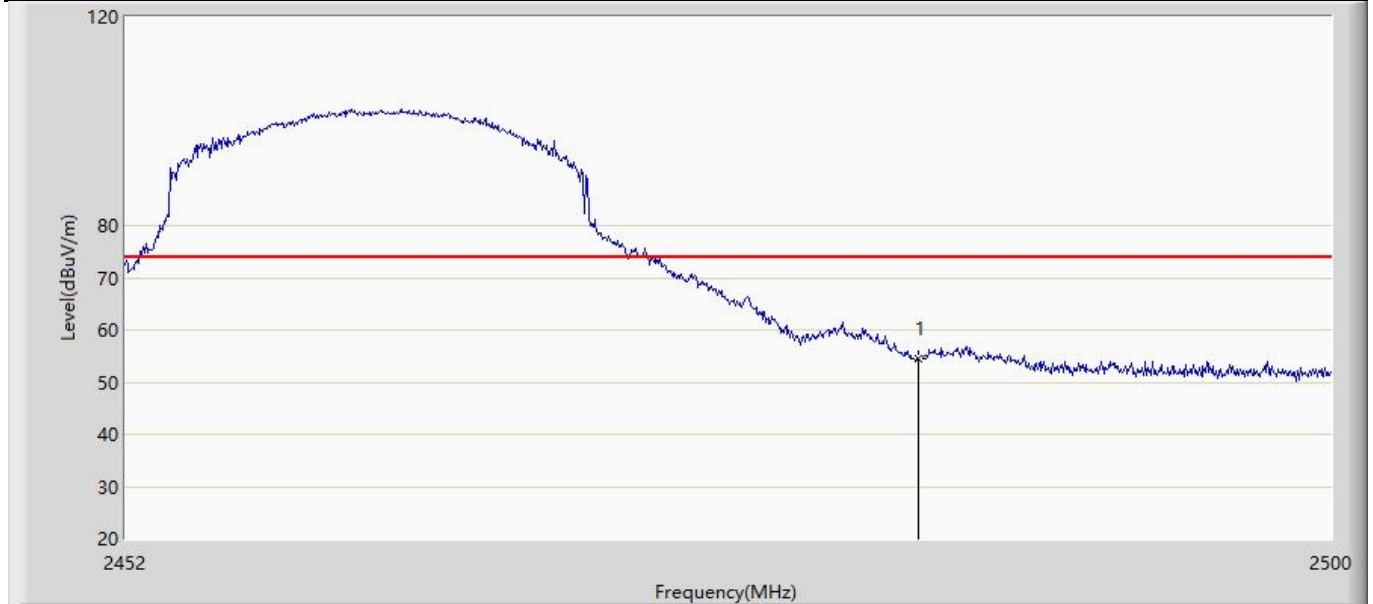
Profile: 2250816R	Page No.: 5
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 11b	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	42.491	11.065	-11.509	54.000	31.426	AV

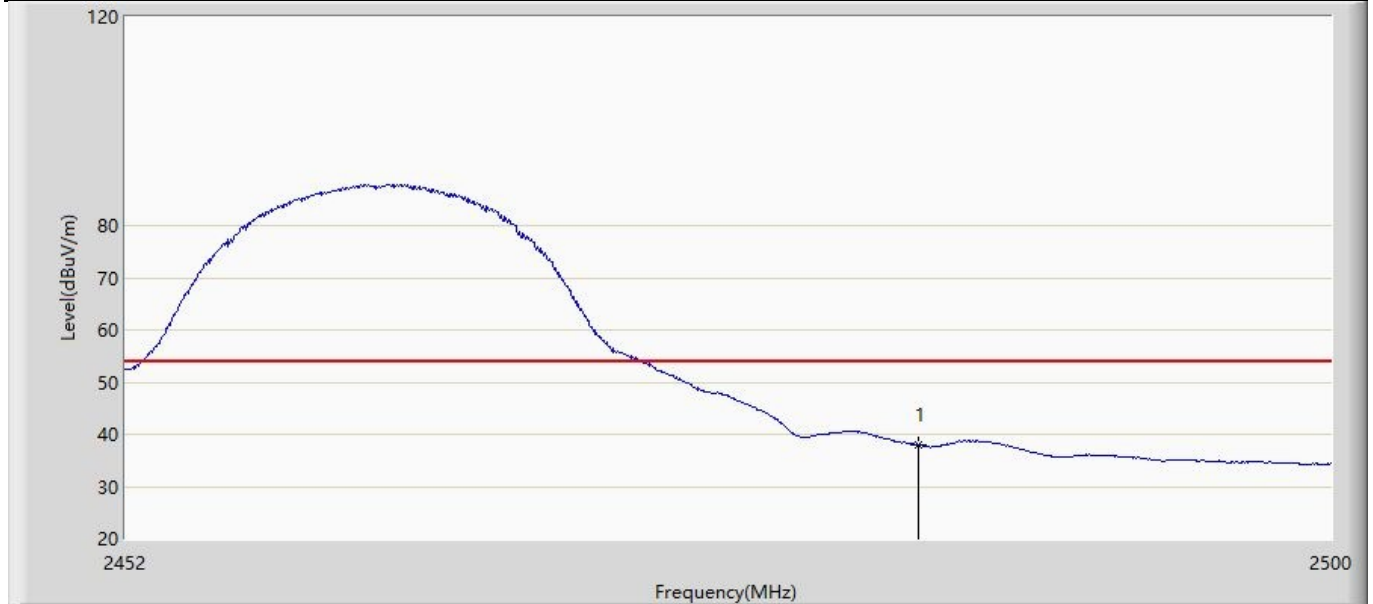


Profile: 2250816R	Page No.: 6
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:49
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 11b	



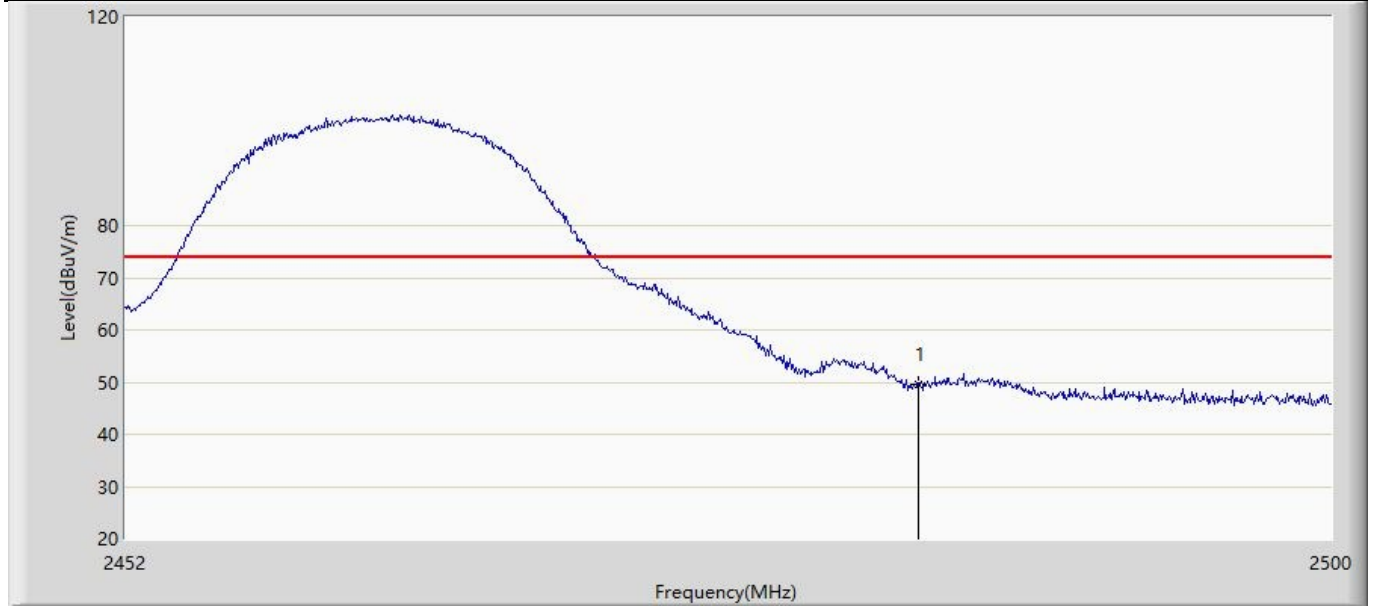
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	54.618	23.192	-19.382	74.000	31.426	PK

Profile: 2250816R	Page No.: 7
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 11b	



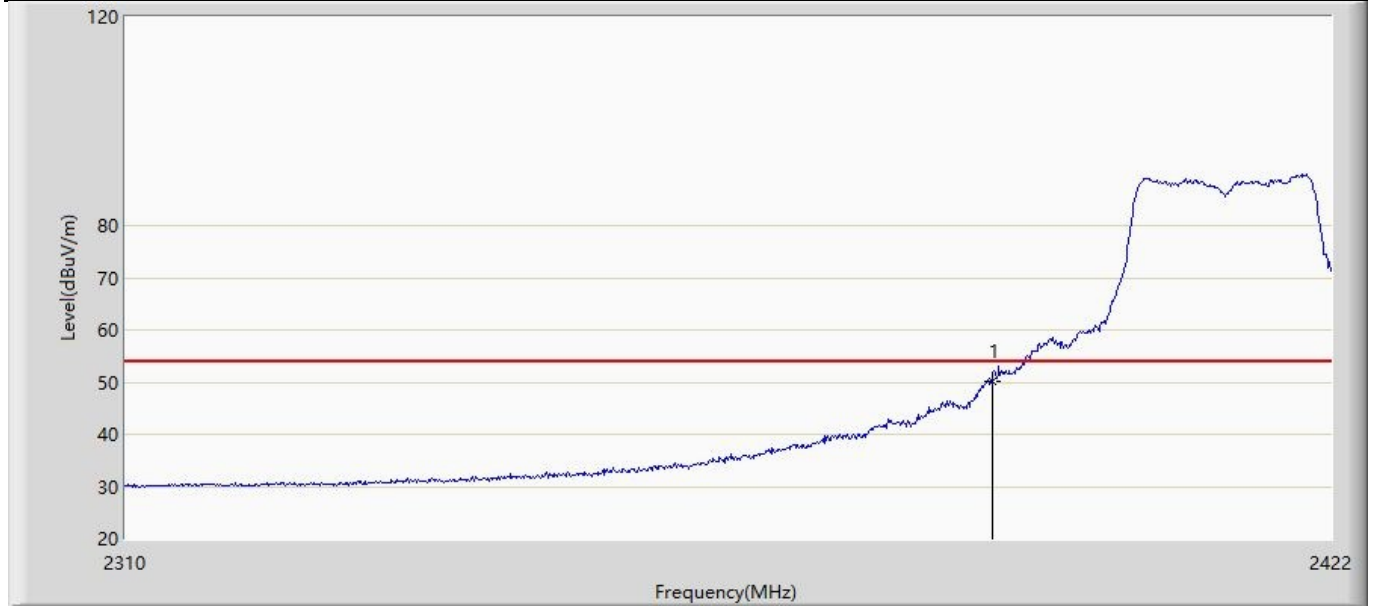
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	37.922	6.496	-16.078	54.000	31.426	AV

Profile: 2250816R	Page No.: 8
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:53
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 1:Transmit at 2462MHz by 11b	



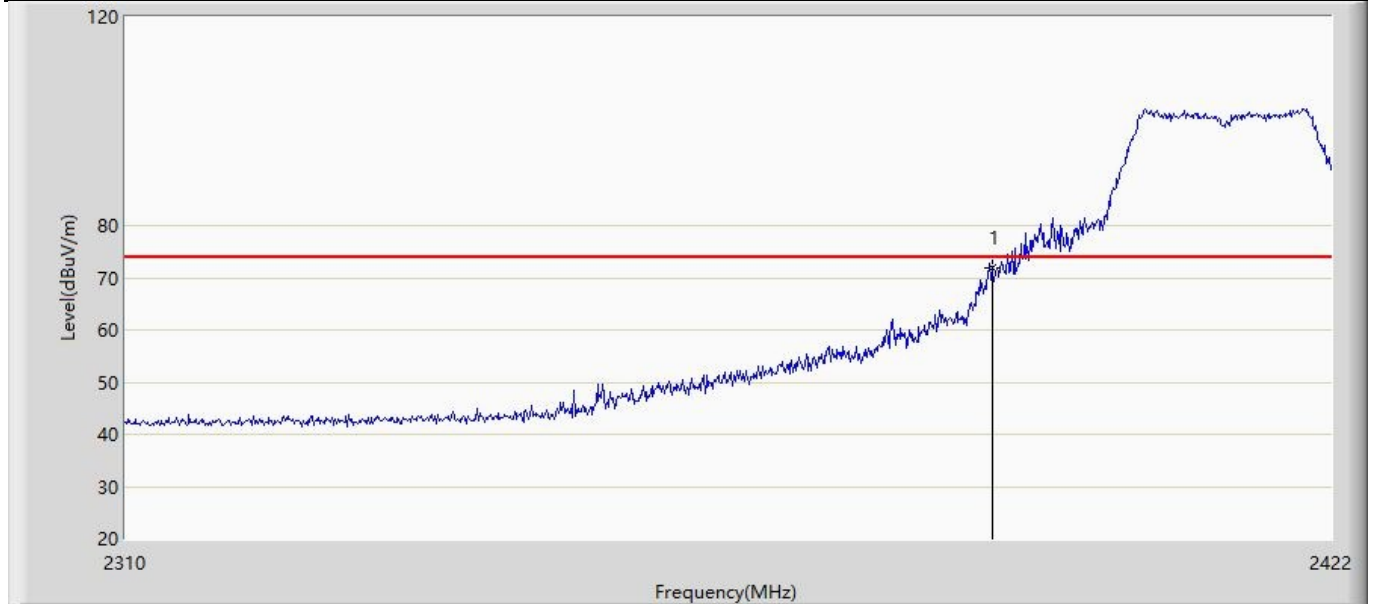
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	49.590	18.164	-24.410	74.000	31.426	PK

Profile: 2250816R	Page No.: 9
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:55
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2412MHz by 11g	



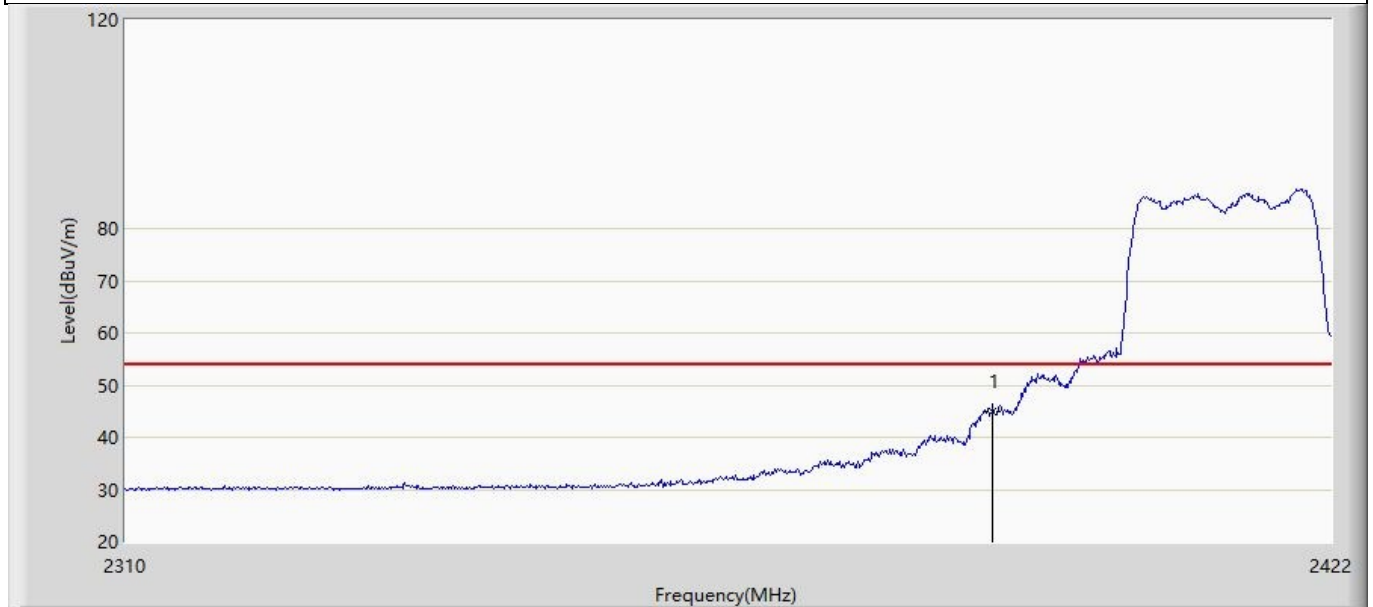
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	50.285	19.143	-3.715	54.000	31.141	AV

Profile: 2250816R	Page No.: 10
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by 11g	



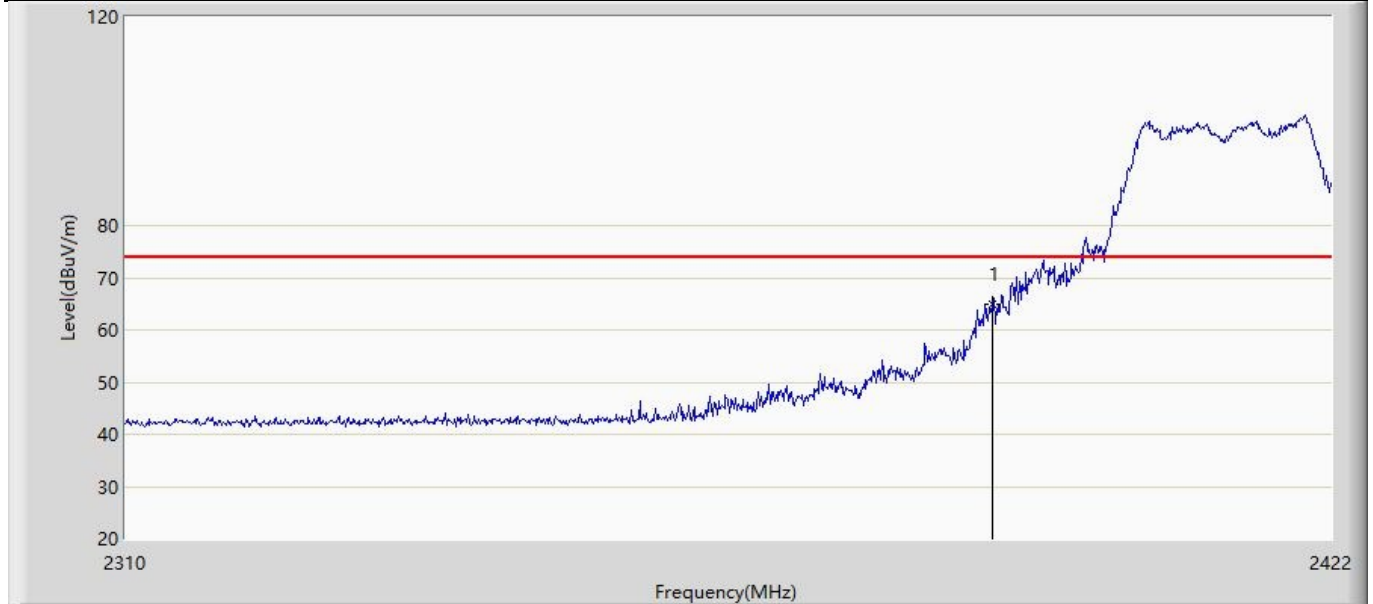
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	71.950	40.808	-2.050	74.000	31.141	PK

Profile: 2250816R	Page No.: 11
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 07:58
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by 11g	



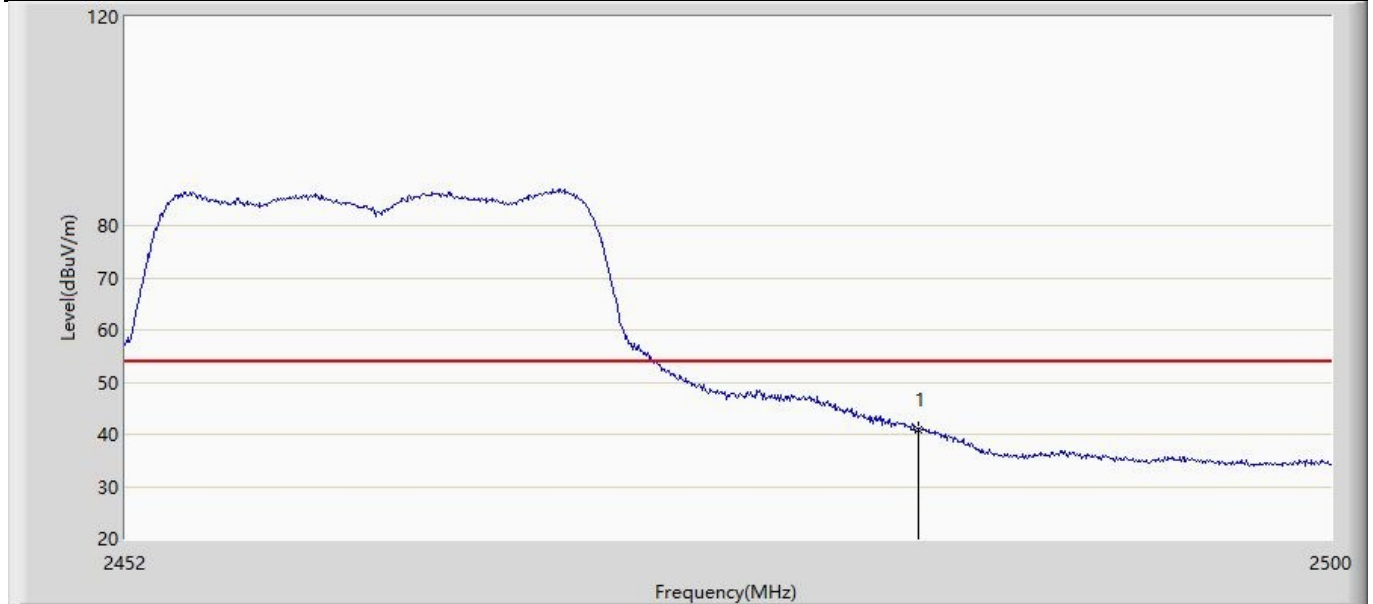
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	44.955	13.813	-9.045	54.000	31.141	AV

Profile: 2250816R	Page No.: 12
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:00
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2402MHz by 11g	



Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu
Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu	Yu Liu

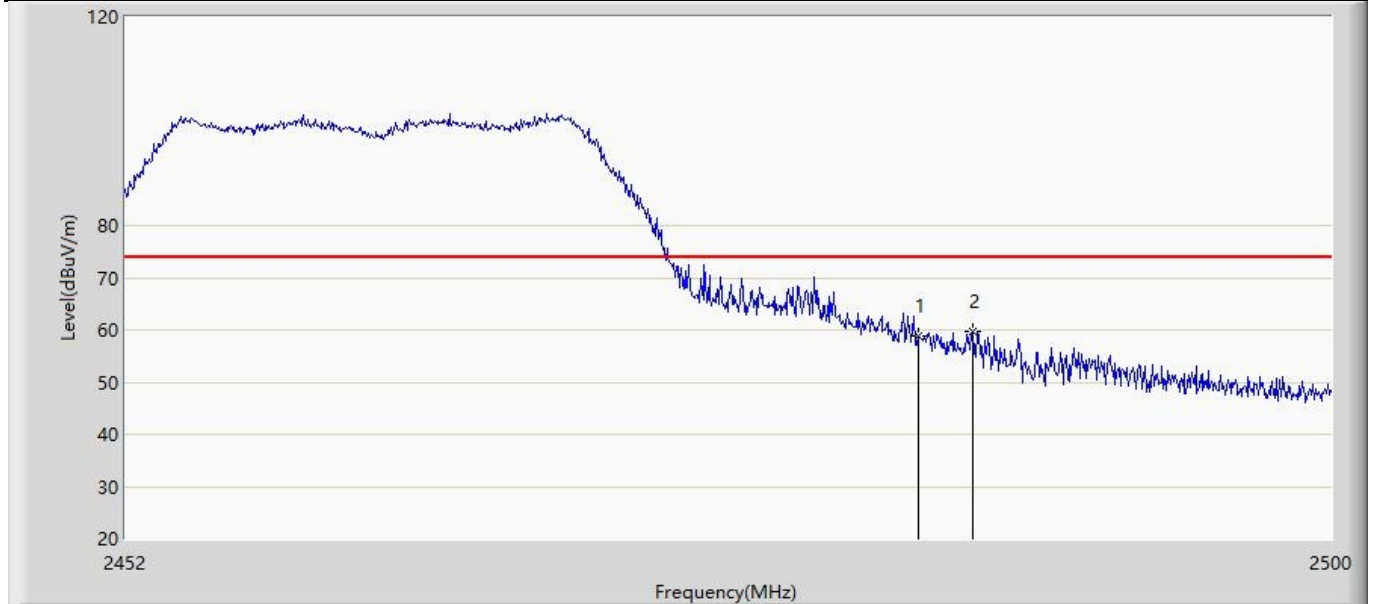
Profile: 2250816R	Page No.: 13
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:02
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 11g	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	40.980	9.554	-13.020	54.000	31.426	AV

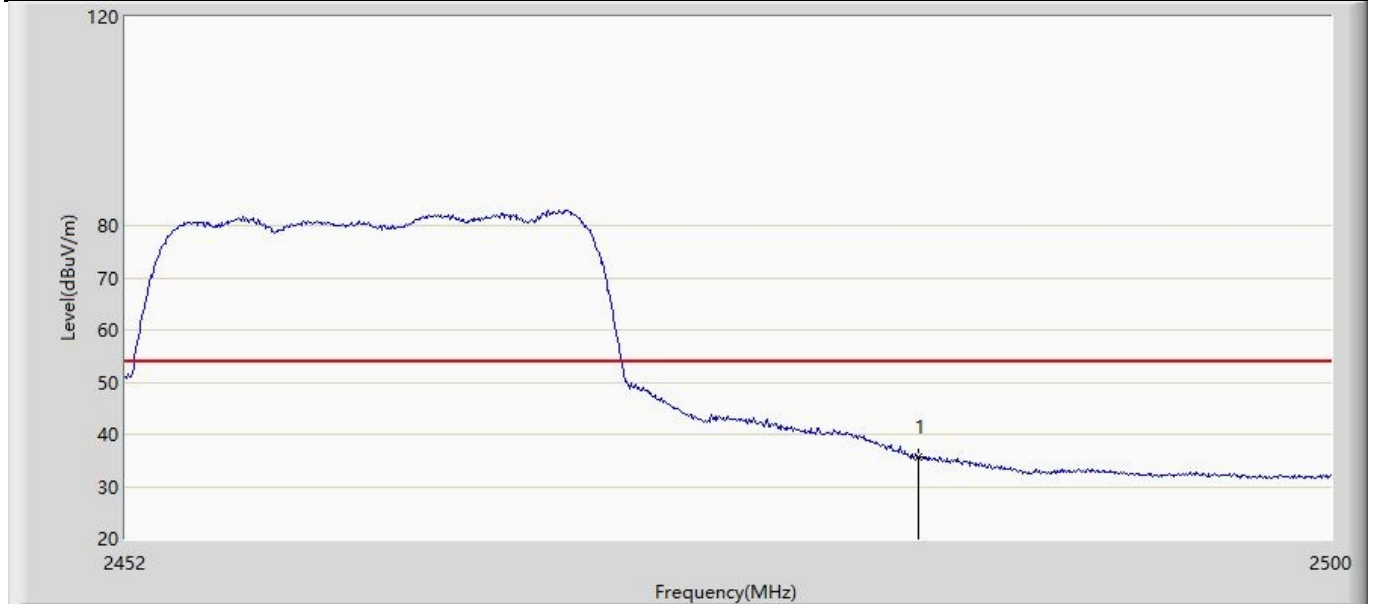


Profile: 2250816R	Page No.: 14
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:03
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 11g	



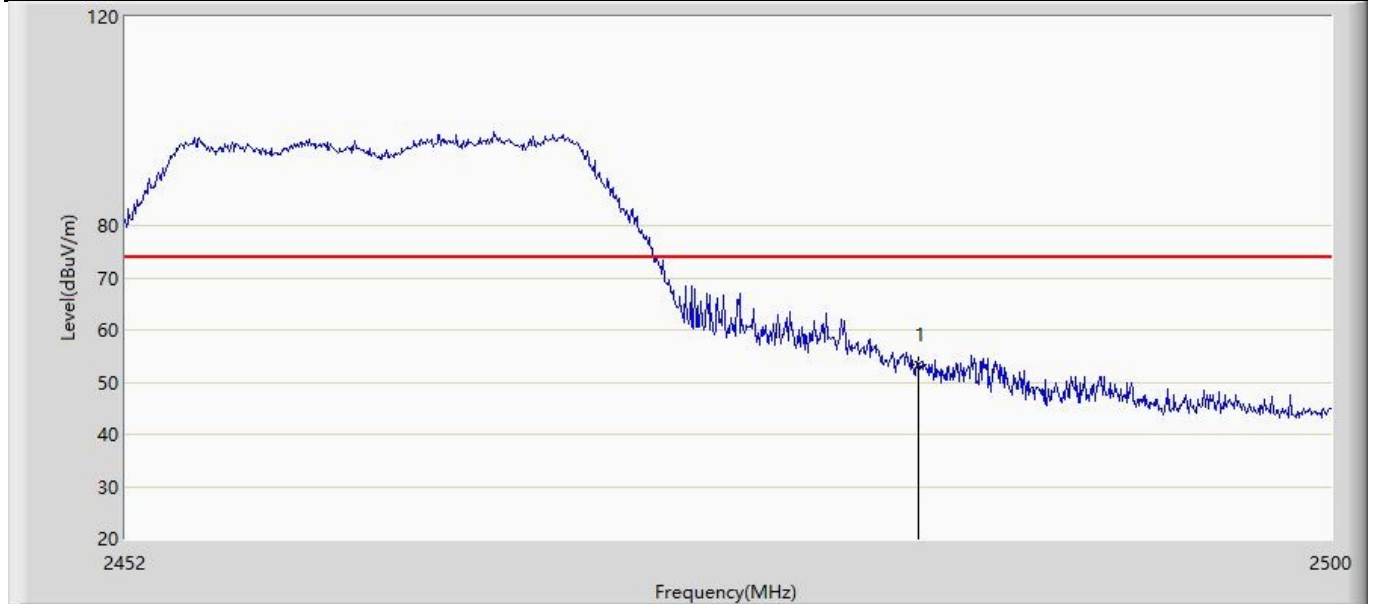
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	58.754	27.328	-15.246	74.000	31.426	PK
2	*	2485.648	59.786	28.354	-14.214	74.000	31.433	PK

Profile: 2250816R	Page No.: 15
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 11g	



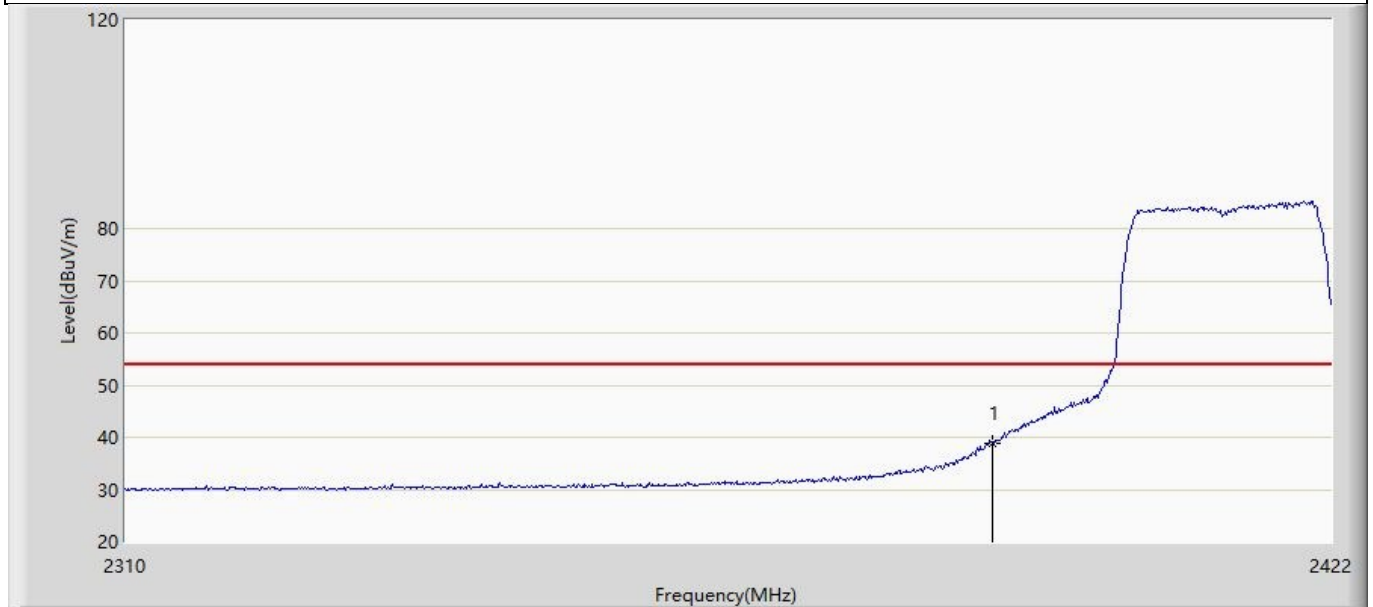
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.697	4.271	-18.303	54.000	31.426	AV

Profile: 2250816R	Page No.: 16
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 2:Transmit at 2462MHz by 11g	



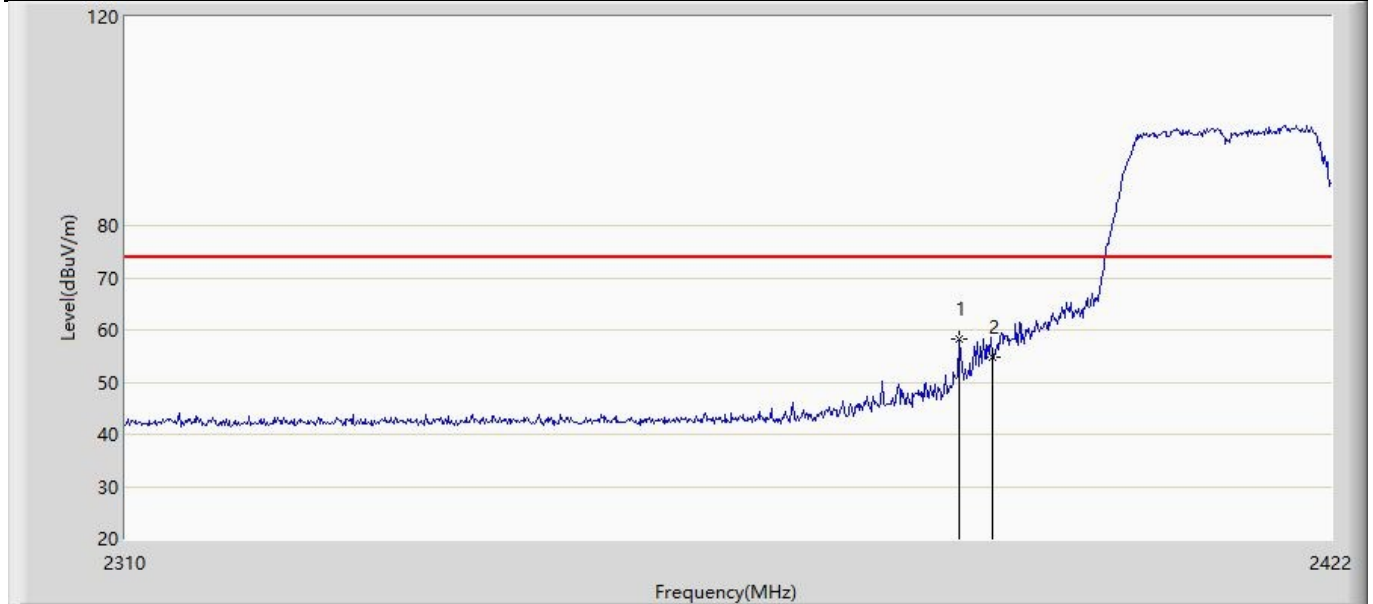
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	53.270	21.844	-20.730	74.000	31.426	PK

Profile: 2250816R	Page No.: 17
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 11n20	



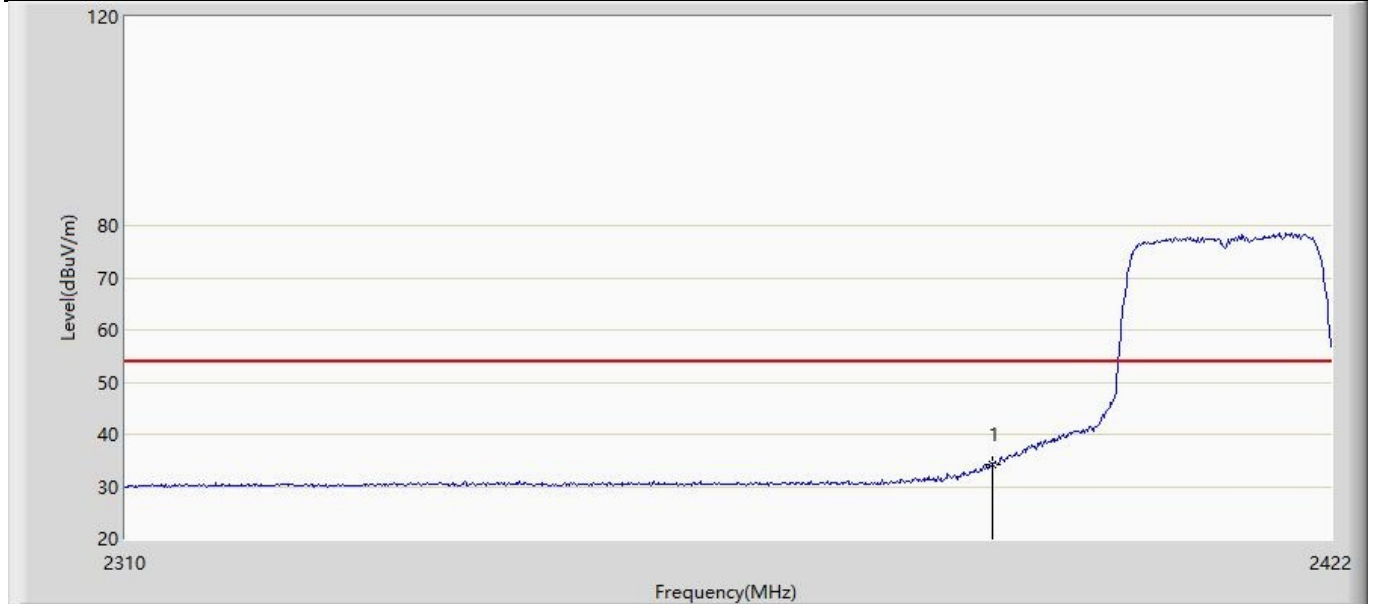
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	38.944	7.802	-15.056	54.000	31.141	AV

Profile: 2250816R	Page No.: 18
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:09
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 11n20	



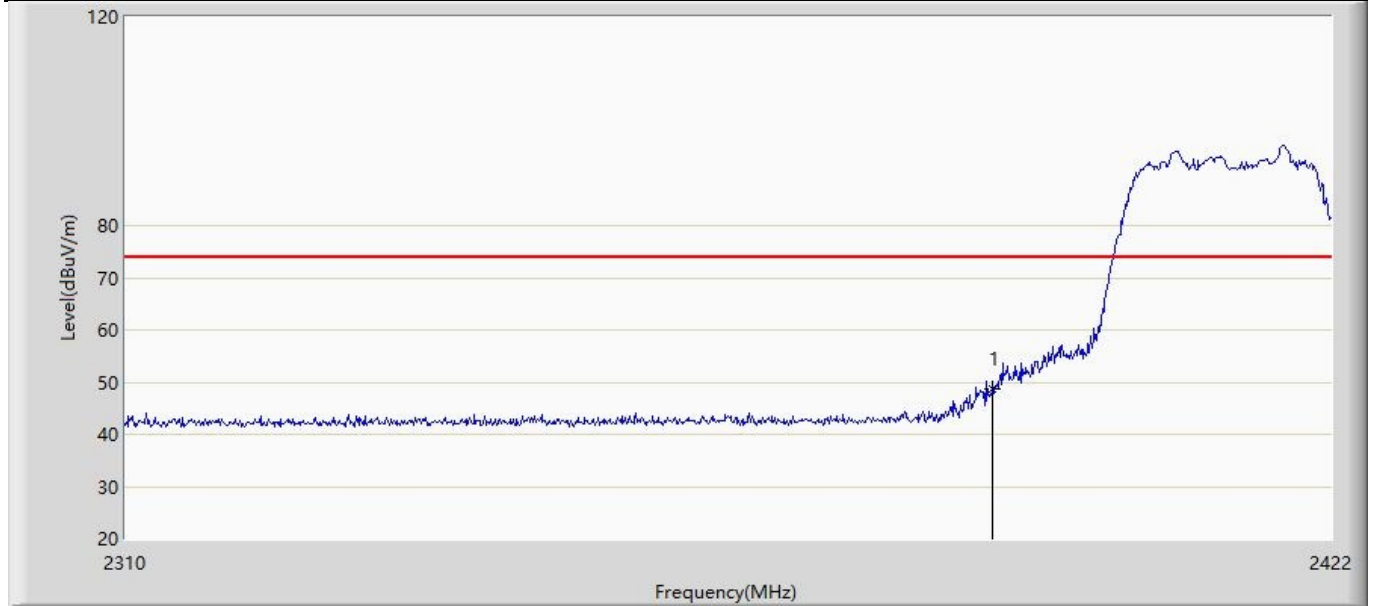
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2386.944	58.340	27.209	-15.660	74.000	31.131	PK
2		2390.000	54.897	23.755	-19.103	74.000	31.141	PK

Profile: 2250816R	Page No.: 19
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 11n20	



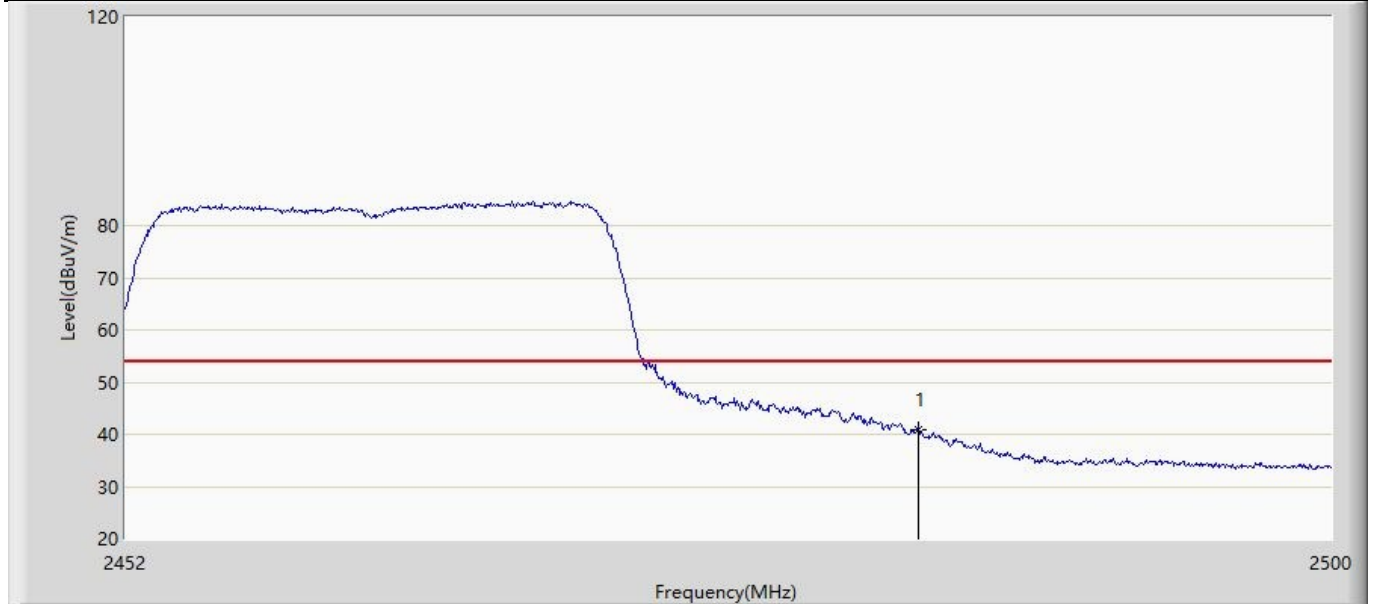
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	34.207	3.065	-19.793	54.000	31.141	AV

Profile: 2250816R	Page No.: 20
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2412MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2390.000	48.566	17.424	-25.434	74.000	31.141	PK

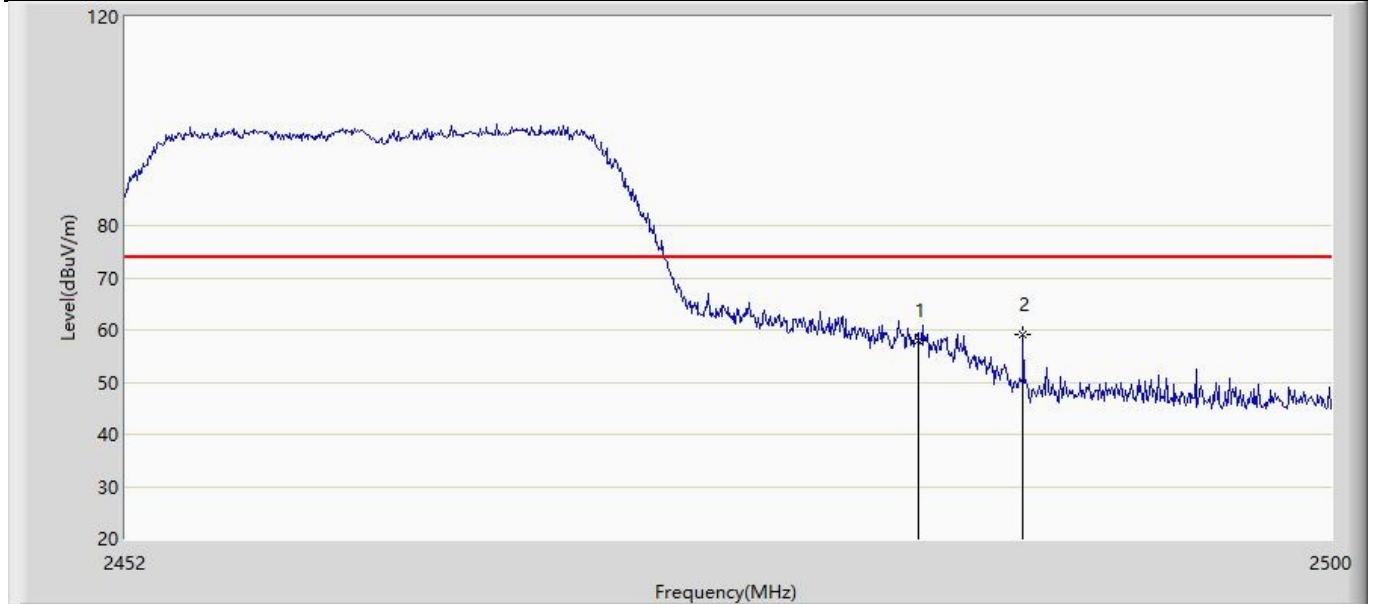
Profile: 2250816R	Page No.: 21
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:13
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	40.979	9.553	-13.021	54.000	31.426	AV

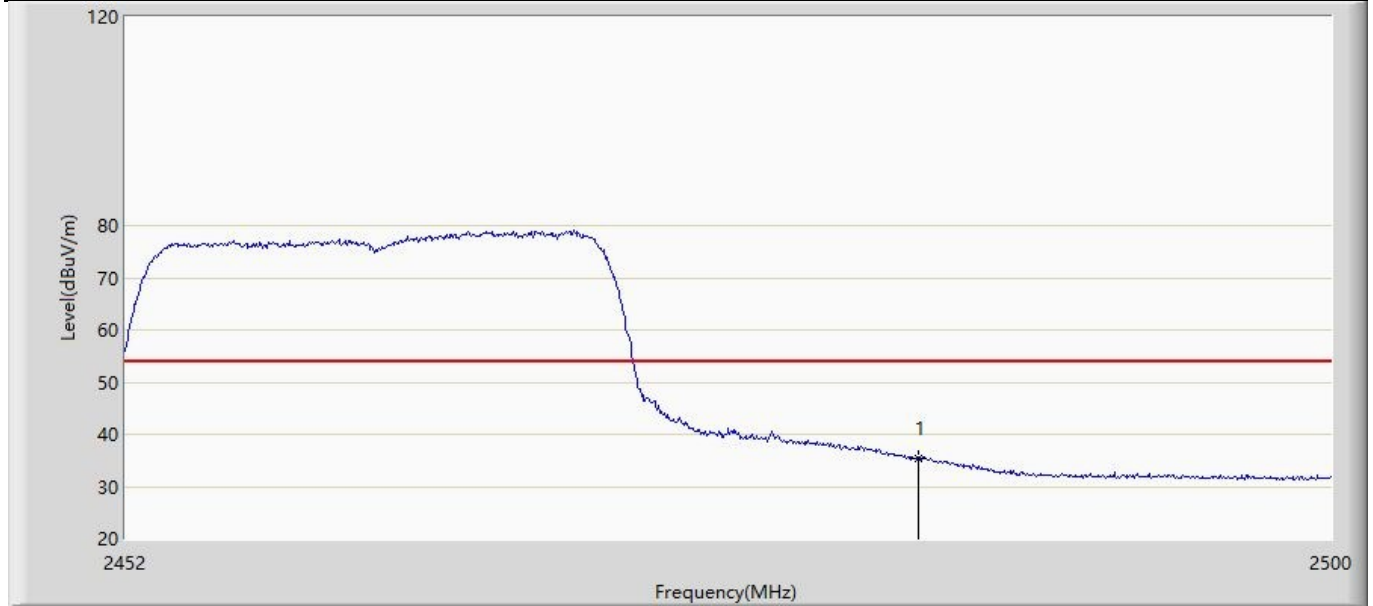


Profile: 2250816R	Page No.: 22
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Horizontal
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 11n20	



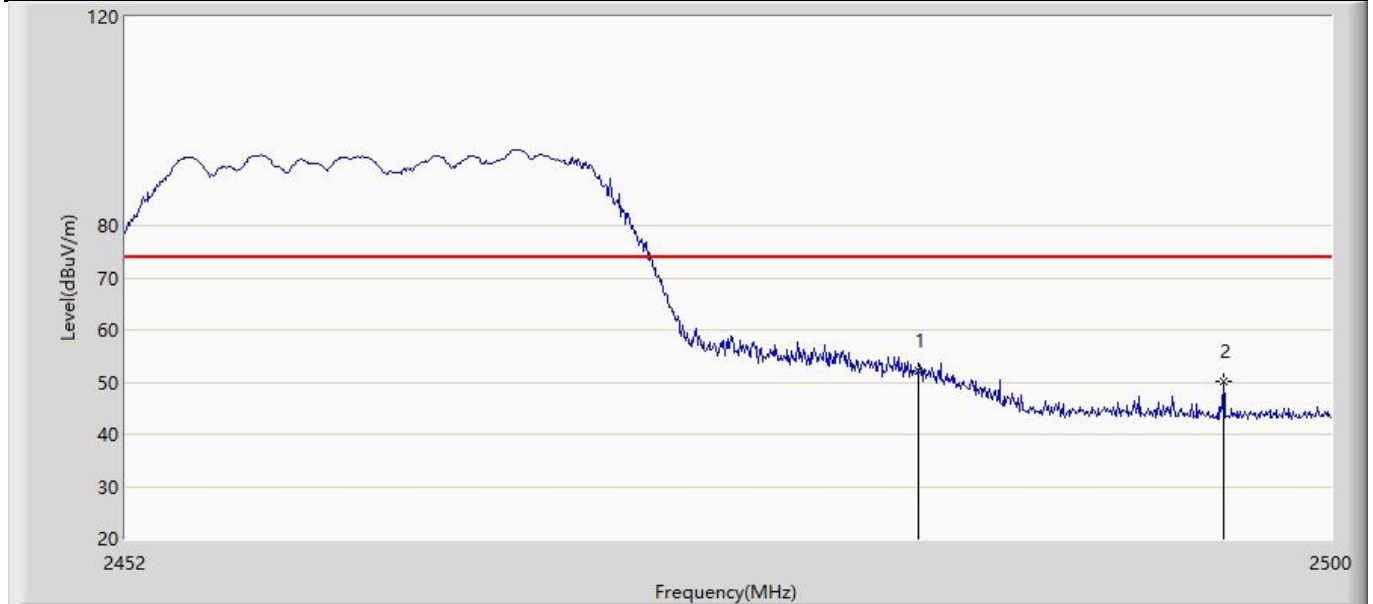
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		2483.500	58.055	26.629	-15.945	74.000	31.426	PK
2	*	2487.664	59.147	27.709	-14.853	74.000	31.438	PK

Profile: 2250816R	Page No.: 23
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	35.488	4.062	-18.512	54.000	31.426	AV

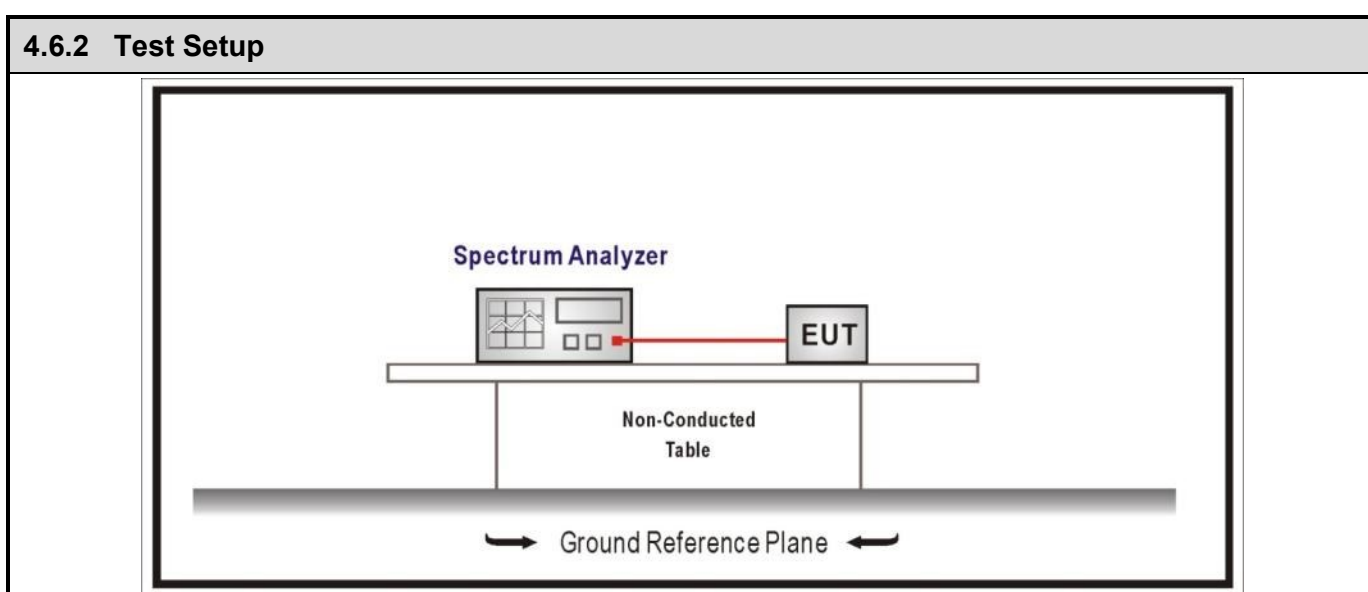
Profile: 2250816R	Page No.: 24
Engineer: Yu Liu	
Site: AC5	Time: 2022/06/23 - 08:19
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: HORN_3117_00167055(1-18GHZ)	Polarity: Vertical
EUT: Touch All In One Computer	Power: AC 120V/60Hz
Note: Mode 3:Transmit at 2462MHz by 11n20	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	2483.500	52.111	20.685	-21.889	74.000	31.426	PK
2		2495.680	50.024	18.563	-23.976	74.000	31.461	PK

<b>4.6 DTS Bandwidth</b>	<b>VERDICT: PASS</b>
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<b>4.6.1 Limit</b>	
<b>Standard</b>	FCC Part 15 Subpart C Paragraph 15.247 (a)(2)
Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz	
<b>Standard</b>	ANSI C63.10 Paragraph 6.7
The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. The occupied bandwidth should be within the required frequency range.	

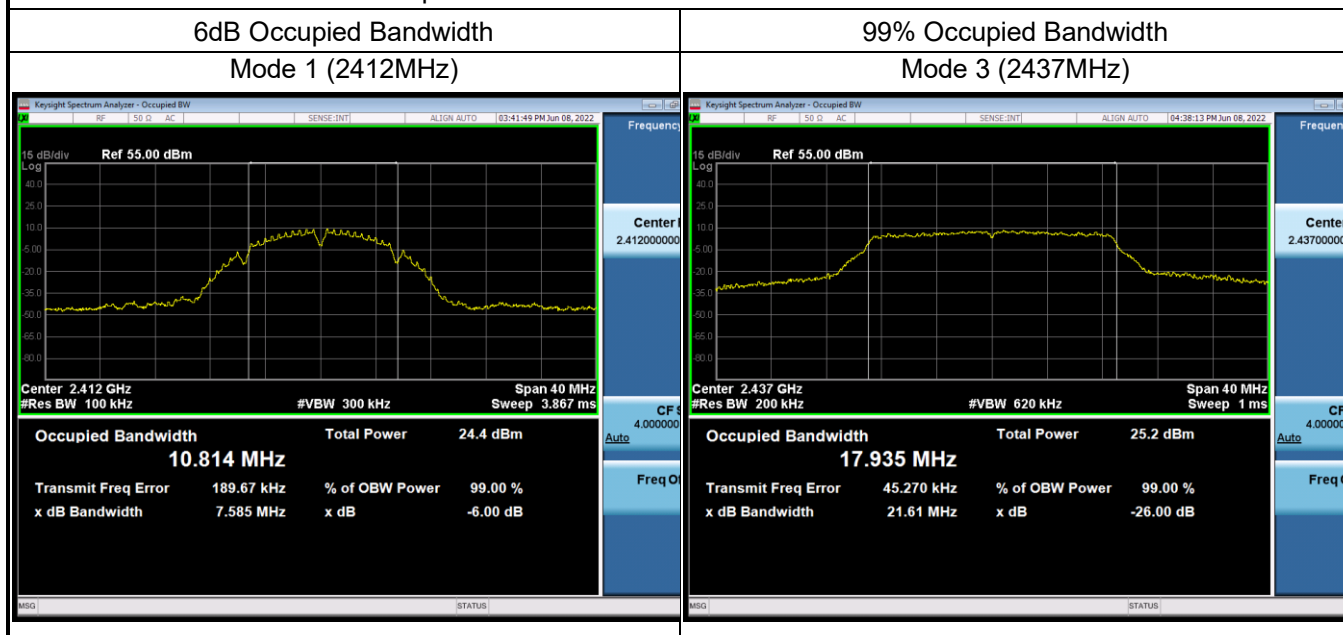


<b>4.6.3 Test Procedure</b>			
	Reference Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.8	DTS bandwidth
<input type="checkbox"/>	ANSI C63.10	11.8.1	Option 1
<input checked="" type="checkbox"/>	ANSI C63.10	11.8.2	Option 2
<input checked="" type="checkbox"/>	ANSI C63.10	6.9	Occupied bandwidth
<input type="checkbox"/>	ANSI C63.10	6.9.2	relative measurement procedure
<input checked="" type="checkbox"/>	ANSI C63.10	6.9.3	power bandwidth (99%) measurement procedure

**4.6.4 Test Data**

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit For 6dB (kHz)	Result
1	1	2412	7.585	10.865	≥500	Pass
	6	2437	7.595	10.944	≥500	Pass
	11	2462	7.586	10.812	≥500	Pass
2	1	2412	16.37	16.714	≥500	Pass
	6	2437	16.38	16.671	≥500	Pass
	11	2462	16.37	16.740	≥500	Pass
3	1	2412	17.62	17.885	≥500	Pass
	6	2437	17.59	17.935	≥500	Pass
	11	2462	17.61	17.805	≥500	Pass

Note : 1.We have evaluated SISO and MIMO mode, shown in the report is the worst data.  
 2.The worst case of Occupied Bandwidth as below in below:



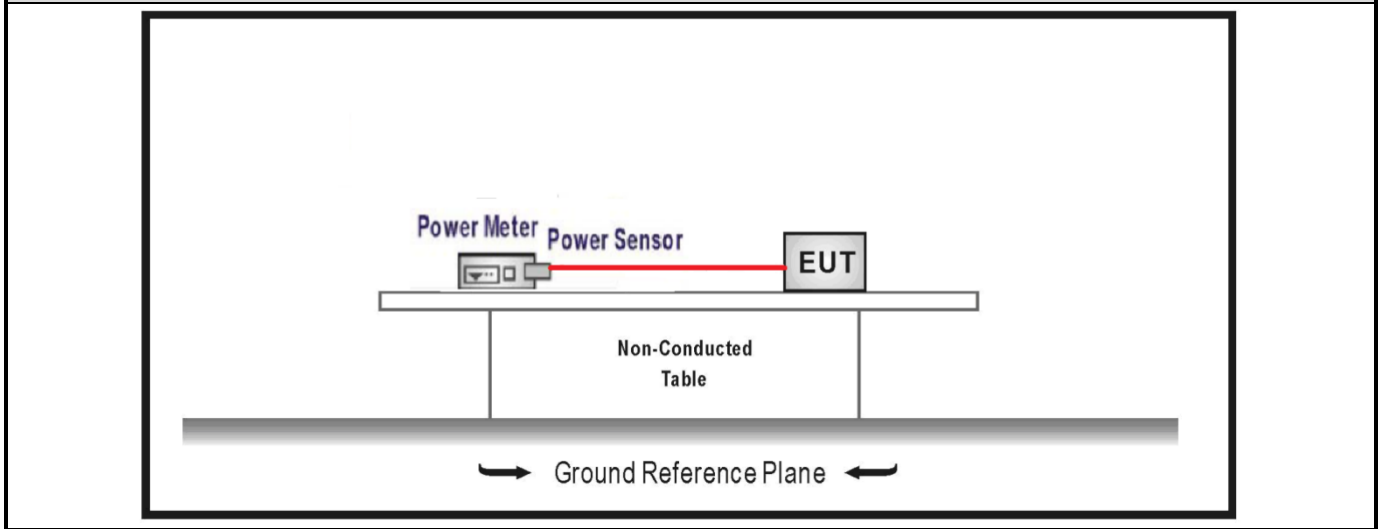
<b>4.7 Fundamental emission output power</b>	<b>VERDICT: PASS</b>
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**4.7.1 Limit**

<b>Standard</b>	FCC Part 15 Subpart C Paragraph 15.247 (b)(3)	
<input checked="" type="checkbox"/>	GTX <6dBi	Pout≤30dBm
<input type="checkbox"/>	GTX >6dBi	
<input type="checkbox"/>	Non-Fix point-point	Pout≤30-( GTX -6)
<input type="checkbox"/>	Fix point-point	Pout≤30-[(GTX-6)]/3
<input type="checkbox"/>	Point-to-multipoint	Pout≤30-(GTX-6)
<input type="checkbox"/>	Overlap Beams	Pout≤30-[(GTX-6)]/3
<input type="checkbox"/>	Avgregate power transmitted simultaneously on all beams	Pout≤30-[(GTX-6)]/3
<input type="checkbox"/>	single directional beam	Pout≤30-[(GTX-6)]/3+8dB

Note 1 : GTX directional gain of transmitting antennas.  
 Note 2 : Pout is maximum conducted output power .

**4.7.2 Test Setup**



4.7.3 Test Procedure				
	References Rule		Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10		11.9	Fundamental emission output power
<input type="checkbox"/>	ANSI C63.10		11.9.1	Maximum peak conducted output power
	<input type="checkbox"/>	ANSI C63.10	11.9.1.1	RBW $\geq$ DTS bandwidth
	<input type="checkbox"/>	ANSI C63.10	11.9.1.2	Integrated band power method
	<input type="checkbox"/>	ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method
<input checked="" type="checkbox"/>	ANSI C63.10		11.9.2	Maximum conducted (average) output power
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2	Measurement using a spectrum analyzer (SA)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle $\geq$ 98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle $\geq$ 98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle $\leq$ 98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle $\leq$ 98%)
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3	Measurement using a power meter (PM)
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3.1	Method AVGPM
	<input type="checkbox"/>	ANSI C63.10	11.9.2.3.2	Method AVGPM-G

Directional Gain Calculations for In-Band test method			
	References Rule	Chapter	Description
<input type="checkbox"/>	KDB 662911	F2)a)	Basic methodology
	<input type="checkbox"/> KDB 662911	F2)a) (i)	transmit signals are correlated
	<input type="checkbox"/> KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
<input type="checkbox"/>	KDB 662911	F2)b)	Sectorized antenna systems.
<input type="checkbox"/>	KDB 662911	F2)c)	Cross-polarized antennas
	<input type="checkbox"/> ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	<input type="checkbox"/> ANSI C63.10	F2)c) (ii)	Multiple antennas
<input checked="" type="checkbox"/>	KDB 662911	F2)e)	Spatial stream
	<input checked="" type="checkbox"/> KDB 662911	F2)e) (i)	Antennas have the same gain
	<input type="checkbox"/> KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	<input type="checkbox"/> KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
<input checked="" type="checkbox"/>	KDB 662911	F2)f)	Cyclic Delay Diversity (CDD)
	<input checked="" type="checkbox"/> KDB 662911	F2)f) (i)	Antennas have the same gain
	<input type="checkbox"/> KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	<input type="checkbox"/> KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream



#### 4.7.4 Test Data

ESY1014:

SISO Antenna1:

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.69	18.85	≤30	≤36	Pass
	6	2437	17.89	19.05	≤30	≤36	Pass
	11	2462	17.88	19.04	≤30	≤36	Pass
Mode 2	1	2412	18.66	19.82	≤30	≤36	Pass
	6	2437	18.72	19.88	≤30	≤36	Pass
	11	2462	18.65	19.81	≤30	≤36	Pass
Mode 3	1	2412	18.65	19.81	≤30	≤36	Pass
	6	2437	18.56	19.72	≤30	≤36	Pass
	11	2462	18.28	19.44	≤30	≤36	Pass

SISO Antenna2:

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.51	19.17	≤30	≤36	Pass
	6	2437	17.69	19.35	≤30	≤36	Pass
	11	2462	17.65	19.31	≤30	≤36	Pass
Mode 2	1	2412	18.39	20.05	≤30	≤36	Pass
	6	2437	18.45	20.11	≤30	≤36	Pass
	11	2462	18.33	19.99	≤30	≤36	Pass
Mode 3	1	2412	18.39	20.05	≤30	≤36	Pass
	6	2437	18.29	19.95	≤30	≤36	Pass
	11	2462	18.96	20.62	≤30	≤36	Pass

MIMO Antenna1+2:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 2	1	2412	21.82	23.23	≤30	≤36	Pass
	6	2437	21.86	23.27	≤30	≤36	Pass
	11	2462	21.65	23.06	≤30	≤36	Pass
Mode 3	1	2412	21.75	23.16	≤30	≤36	Pass
	6	2437	21.69	23.10	≤30	≤36	Pass
	11	2462	21.45	22.86	≤30	≤36	Pass

ESY1514:							
SISO Antenna1:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.69	20.03	≤30	≤36	Pass
	6	2437	17.89	20.23	≤30	≤36	Pass
	11	2462	17.88	20.22	≤30	≤36	Pass
Mode 2	1	2412	18.66	21.00	≤30	≤36	Pass
	6	2437	18.72	21.06	≤30	≤36	Pass
	11	2462	18.65	20.99	≤30	≤36	Pass
Mode 3	1	2412	18.65	20.99	≤30	≤36	Pass
	6	2437	18.56	20.90	≤30	≤36	Pass
	11	2462	18.28	20.62	≤30	≤36	Pass

SISO Antenna2:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.51	19.49	≤30	≤36	Pass
	6	2437	17.69	19.67	≤30	≤36	Pass
	11	2462	17.65	19.63	≤30	≤36	Pass
Mode 2	1	2412	18.39	20.37	≤30	≤36	Pass
	6	2437	18.45	20.43	≤30	≤36	Pass
	11	2462	18.33	20.31	≤30	≤36	Pass
Mode 3	1	2412	18.39	20.37	≤30	≤36	Pass
	6	2437	18.29	20.27	≤30	≤36	Pass
	11	2462	18.96	20.94	≤30	≤36	Pass

MIMO Antenna1+2:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 2	1	2412	21.82	23.99	≤30	≤36	Pass
	6	2437	21.86	24.04	≤30	≤36	Pass
	11	2462	21.65	23.82	≤30	≤36	Pass
Mode 3	1	2412	21.75	23.92	≤30	≤36	Pass
	6	2437	21.69	23.86	≤30	≤36	Pass
	11	2462	21.45	23.62	≤30	≤36	Pass

ESY15I4-C:							
SISO Antenna1:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.69	20.41	≤30	≤36	Pass
	6	2437	17.89	20.61	≤30	≤36	Pass
	11	2462	17.88	20.60	≤30	≤36	Pass
Mode 2	1	2412	18.66	21.38	≤30	≤36	Pass
	6	2437	18.72	21.44	≤30	≤36	Pass
	11	2462	18.65	21.37	≤30	≤36	Pass
Mode 3	1	2412	18.65	21.37	≤30	≤36	Pass
	6	2437	18.56	21.28	≤30	≤36	Pass
	11	2462	18.28	21.00	≤30	≤36	Pass

SISO Antenna2:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.51	20.27	≤30	≤36	Pass
	6	2437	17.69	20.45	≤30	≤36	Pass
	11	2462	17.65	20.41	≤30	≤36	Pass
Mode 2	1	2412	18.39	21.15	≤30	≤36	Pass
	6	2437	18.45	21.21	≤30	≤36	Pass
	11	2462	18.33	21.09	≤30	≤36	Pass
Mode 3	1	2412	18.39	21.15	≤30	≤36	Pass
	6	2437	18.29	21.05	≤30	≤36	Pass
	11	2462	18.96	21.72	≤30	≤36	Pass

MIMO Antenna1+2:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 2	1	2412	21.82	24.56	≤30	≤36	Pass
	6	2437	21.86	24.60	≤30	≤36	Pass
	11	2462	21.65	24.39	≤30	≤36	Pass
Mode 3	1	2412	21.75	24.49	≤30	≤36	Pass
	6	2437	21.69	24.43	≤30	≤36	Pass
	11	2462	21.45	24.19	≤30	≤36	Pass

ESY2214:							
SISO Antenna1:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.69	19.87	≤30	≤36	Pass
	6	2437	17.89	20.07	≤30	≤36	Pass
	11	2462	17.88	20.06	≤30	≤36	Pass
Mode 2	1	2412	18.66	20.84	≤30	≤36	Pass
	6	2437	18.72	20.90	≤30	≤36	Pass
	11	2462	18.65	20.83	≤30	≤36	Pass
Mode 3	1	2412	18.65	20.83	≤30	≤36	Pass
	6	2437	18.56	20.74	≤30	≤36	Pass
	11	2462	18.28	20.46	≤30	≤36	Pass

SISO Antenna2:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	17.51	20.41	≤30	≤36	Pass
	6	2437	17.69	20.59	≤30	≤36	Pass
	11	2462	17.65	20.55	≤30	≤36	Pass
Mode 2	1	2412	18.39	21.29	≤30	≤36	Pass
	6	2437	18.45	21.35	≤30	≤36	Pass
	11	2462	18.33	21.23	≤30	≤36	Pass
Mode 3	1	2412	18.39	21.29	≤30	≤36	Pass
	6	2437	18.29	21.19	≤30	≤36	Pass
	11	2462	18.96	21.86	≤30	≤36	Pass

MIMO Antenna1+2:							
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 2	1	2412	21.82	24.36	≤30	≤36	Pass
	6	2437	21.86	24.40	≤30	≤36	Pass
	11	2462	21.65	24.19	≤30	≤36	Pass
Mode 3	1	2412	21.75	24.29	≤30	≤36	Pass
	6	2437	21.69	24.23	≤30	≤36	Pass
	11	2462	21.45	24.00	≤30	≤36	Pass

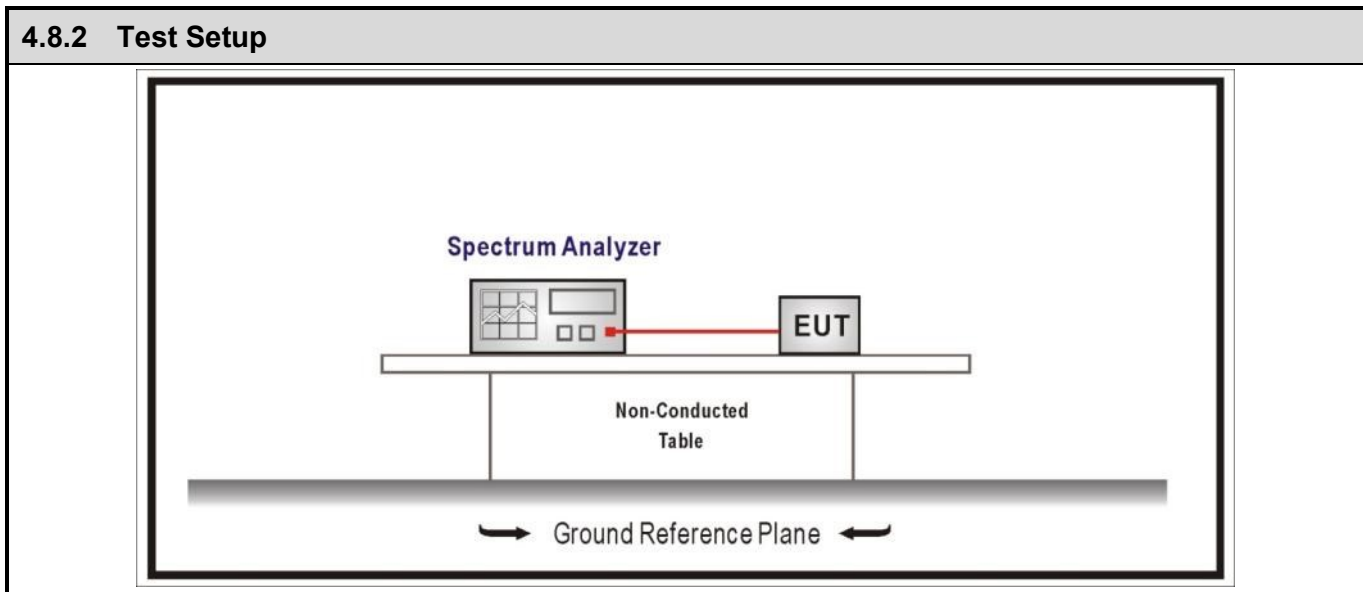


**Power Setting:**

Mode	Channel	Test Frequency (MHz)	Power Setting		
			SISO Antenna1	SISO Antenna2	MIMO Antenna1+2
Mode 1	1	2412	66	66	66
	6	2437	66	66	66
	11	2462	66	66	66
Mode 2	1	2412	66	66	66
	6	2437	66	66	66
	11	2462	66	66	66
Mode 3	1	2412	66	66	66
	6	2437	66	66	66
	11	2462	66	66	66

<b>4.8 Power Density</b>	<b>VERDICT: PASS</b>
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<b>4.8.1 Limit:</b>	
<b>Standard</b>	FCC Part 15 Subpart C Paragraph 15.247 (e)
Power Spectral Density ≤ 8dBm/3kHz	



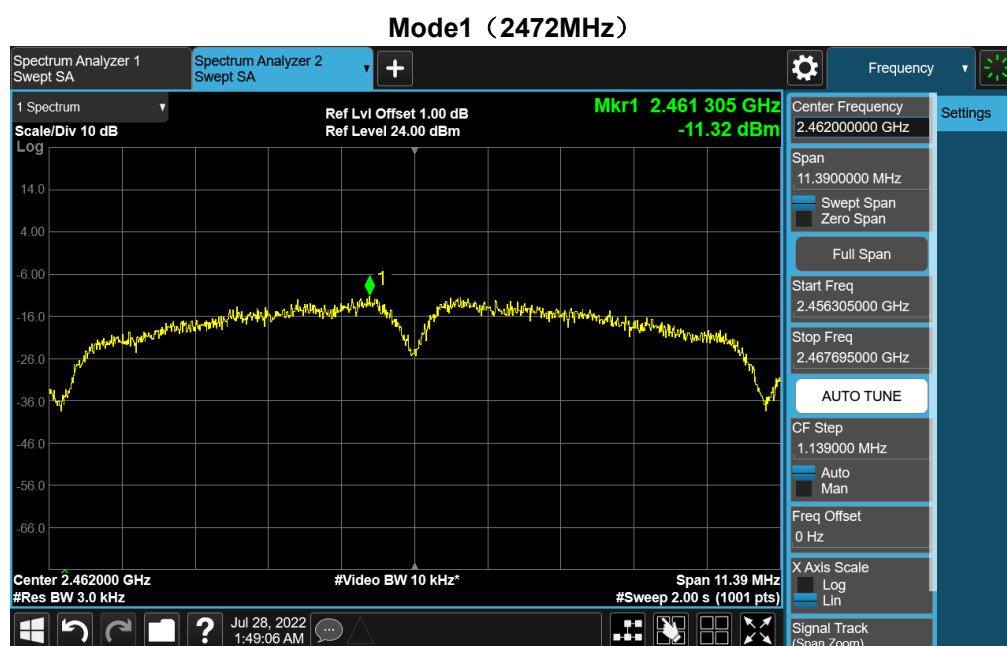
**4.8.3 Test Procedure**

	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.10	Maximum power spectral density level in the fundamental emission
<input checked="" type="checkbox"/>	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
<input type="checkbox"/>	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle ≥ 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle ≥ 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle < 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle < 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.7	Method AVGPSD-3
<input type="checkbox"/>	ANSI C63.10	11.10.8	Method AVGPSD-3A

Directional Gain Calculations for In-Band test method				
	References Rule		Chapter	Description
<input type="checkbox"/>	KDB 662911		F2)a)	Basic methodology
	<input type="checkbox"/>	KDB 662911	F2)a) (i)	transmit signals are correlated
	<input type="checkbox"/>	KDB 662911	F2)a) (ii)	transmit signals are uncorrelated
<input type="checkbox"/>	KDB 662911		F2)b)	Sectorized antenna systems.
<input type="checkbox"/>	KDB 662911		F2)c)	Cross-polarized antennas
	<input type="checkbox"/>	ANSI C63.10	F2)c) (i)	Cross-polarized antennas
	<input type="checkbox"/>	ANSI C63.10	F2)c) (ii)	Multiple antennas
<input checked="" type="checkbox"/>	KDB 662911		F2)e)	Spatial stream
	<input checked="" type="checkbox"/>	KDB 662911	F2)e) (i)	Antennas have the same gain
	<input type="checkbox"/>	KDB 662911	F2)e) (ii)	Antenna have the different gain with one spatial stream
	<input type="checkbox"/>	KDB 662911	F2)e) (iii)	Antenna have the different gain with more than one spatial stream
<input checked="" type="checkbox"/>	KDB 662911		F2)f)	Cyclic Delay Diversity (CDD)
	<input checked="" type="checkbox"/>	KDB 662911	F2)f) (i)	Antennas have the same gain
	<input type="checkbox"/>	KDB 662911	F2)f) (ii)	Antenna have the different gain with one spatial stream
	<input type="checkbox"/>	KDB 662911	F2)f) (iii)	Antenna have the different gain with more than one spatial stream

4.8.4		4.8.5 Test Data				
Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
			Worst Chain			
1	1	2412	-13.46	-10.45	≤8	Pass
	6	2437	-11.58	-8.57	≤8	Pass
	11	2462	-11.32	-8.31	≤8	Pass
2	1	2412	-18.64	-15.63	≤8	Pass
	6	2437	-19.06	-16.05	≤8	Pass
	11	2462	-18.83	-15.82	≤8	Pass
3	1	2412	-20.00	-16.99	≤8	Pass
	6	2437	-20.44	-17.43	≤8	Pass
	11	2462	-20.24	-17.23	≤8	Pass

Note :1.We have evaluated SISO and MIMO mode, shown in the report is the worst data.  
 2. The worst case of Power Density as below in below:



Note: We used the peak detector test result below the limit of 9db, so did not use the RMS detector.

<b>4.9 Antenna Requirement</b>		<b>VERDICT: PASS</b>
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<b>4.9.1 Limit:</b>	
<b>Standard</b>	FCC Part 15 Subpart C Paragraph 15.203
<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p>	

<b>4.9.2 Antenna Connector Construction:</b>	
<input type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input checked="" type="checkbox"/>	The use of a nonstandard antenna jack or electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

## 5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

\_\_\_\_\_ The End \_\_\_\_\_