

# FCC Test Report

**FCC ID** : VQK-F04G  
**Equipment** : Mobile Phone  
**Model No.** : F-04G  
**Brand Name** : FUJITSU  
**Applicant** : FUJITSU LIMITED  
**Address** : 1-1, Kamikodanaka 4-chome, Nakahara-ku,  
Kawasaki 211-8588, Japan  
**Standard** : 47 CFR FCC Part 15.407  
**Received Date** : Dec. 17, 2014  
**Tested Date** : Mar. 05 ~ Mar. 12, 2015

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

  
Gary Chang / Manager



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## Release Record

Report No.	Version	Description	Issued Date
FR4D1701AN	Rev. 01	Initial issue	Apr. 01, 2015

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.520MHz 41.34 (Margin -4.66dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5725.00MHz 65.09 (Margin -3.11dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 13.73 5250~5350MHz: 13.71 5470~5725MHz: 12.93	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

# 1 General Description

## 1.1 Information

### 1.1.1 Product Details

Product Name	Mobile Phone
Brand Name	FUJITSU
Model Name	F-04G
IMEI Code	357241060024329 / 357241060024287
H/W Version	v2.1.0
S/W Version	R21.5e

### 1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	Data Rate / MCS
5150-5250 5250-5350 5470-5725	a	5180-5240 5260-5320 5500-5700	36-48 [4] 52-64 [4] 100-140 [11]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725	n (HT20)	5180-5240 5260-5320 5500-5700	36-48 [4] 52-64 [4] 100-140 [11]]	2	MCS 0-15
5150-5250 5250-5350 5470-5725	n (HT40)	5190-5230 5270-5310 5510-5670	38-46 [2] 54-62 [2] 102-134 [5]	2	MCS 0-15
5150-5250 5250-5350 5470-5725	ac (VHT20)	5180-5240 5260-5320 5500-5700	36-48 [4] 52-64 [4] 100-140 [11]	2	MCS 0-9, N <sub>SS</sub> = 1 / 2
5150-5250 5250-5350 5470-5725	ac (VHT40)	5190-5230 5270-5310 5510-5670	38-46 [2] 54-62 [2] 102-134 [5]	2	MCS 0-9, N <sub>SS</sub> = 1 / 2
5150-5250 5250-5350 5470-5725	ac (VHT80)	5210 5290 5530-5610	42 [1] 58 [1] 106-122 [2]	2	MCS 0-9, N <sub>SS</sub> = 1 / 2

Note 1: RF output power specifies that Maximum Conducted Output Power.  
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

### 1.1.3 Antenna Details

Ant.	Type	Gain (dBi)	Connector	Remark
0	$\lambda/4$ Monopole	1.40	---	---
1	$\lambda/4$ Monopole	-5.78	---	---

### 1.1.4 Power Supply Type of Equipment under Test (EUT)

<b>Power Supply Type</b>	AC adapter: (normal output rating) 5.0Vdc, 1.8A (quick charge output rating) 9.0Vdc, 1.8A Battery: 3.75Vdc
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### 1.1.5 Accessories

No.	Equipment	Description
1	Cradle	Brand Name: Fujitsu Limited Model Name: F50 Input rating: (quick charge) 9.0Vdc, 1.5A Output rating: (quick charge) 9.0Vdc, 1.5A
2	Battery (Unremovable)	Brand Name: NTT Docomo Model Name: CA54310-0061 Power Rating: 3.75Vdc, 3120mAh, 12Wh

### 1.1.6 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	<b>VHT80</b>	
108	5540	42	5210
112	5560	58	5290
116	5580	106	5530
120	5600	122	5610
124	5620	---	---
128	5640	---	---
132	5660	---	---
136	5680	---	---
140	5700	---	---

### 1.1.7 Test Tool and Duty Cycle

Test Tool	QRCT, version 3.0.54.0		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	99.38%	0.03
	HT20	98.21%	0.08
	HT40	93.86%	0.28
	VHT80	87.64%	0.57

### 1.1.8 Power Setting

For Frequency band 5150-5250 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5180	17
11a	5200	17
11a	5240	17
HT20	5180	15
HT20	5200	15
HT20	5240	15
HT40	5190	15
HT40	5230	15
VHT20	5180	14
VHT20	5200	14
VHT20	5240	14
VHT40	5190	14
VHT40	5230	14
VHT80	5210	13

For Frequency band 5250~5350 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5260	17
11a	5300	17
11a	5320	17
HT20	5260	15
HT20	5300	15
HT20	5320	15
HT40	5270	15
HT40	5310	15
VHT20	5260	14
VHT20	5300	14
VHT20	5320	14
VHT40	5270	14
VHT40	5310	14
VHT80	5290	13

For Frequency band 5470~5725 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5500	17
11a	5580	17
11a	5700	17
HT20	5500	15
HT20	5580	15
HT20	5700	15
HT40	5510	15
HT40	5590	15
HT40	5670	15
VHT20	5500	14
VHT20	5580	14
VHT20	5700	14
VHT40	5510	14
VHT40	5590	14
VHT40	5670	14
VHT80	5530	13
VHT80	5610	13

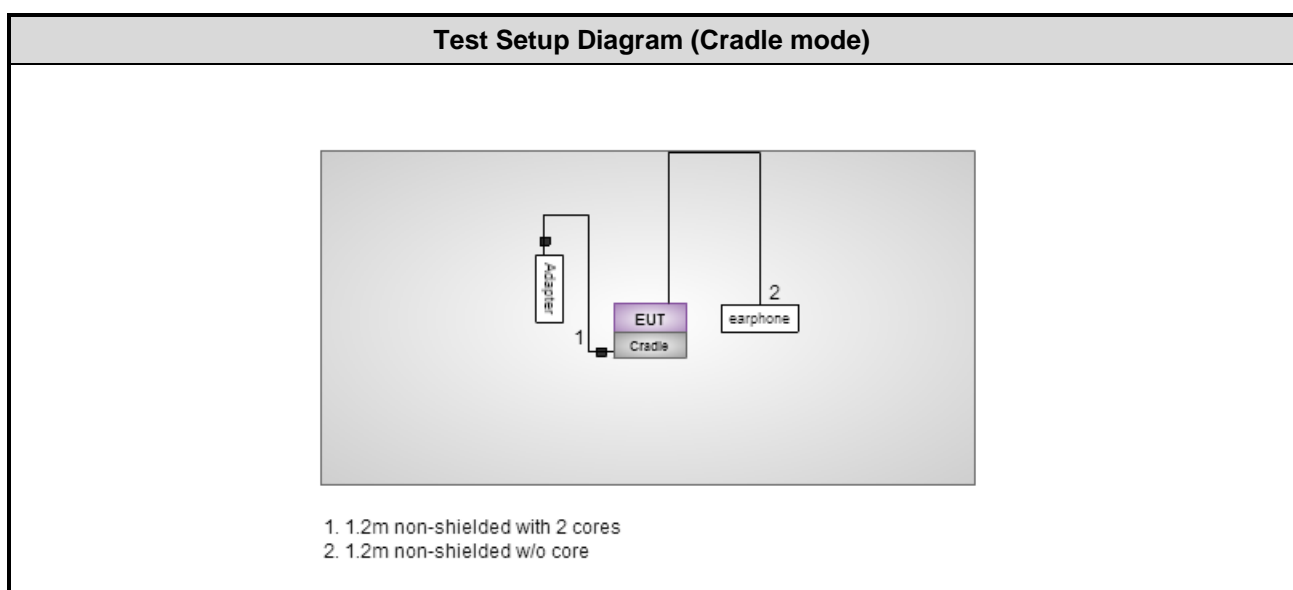
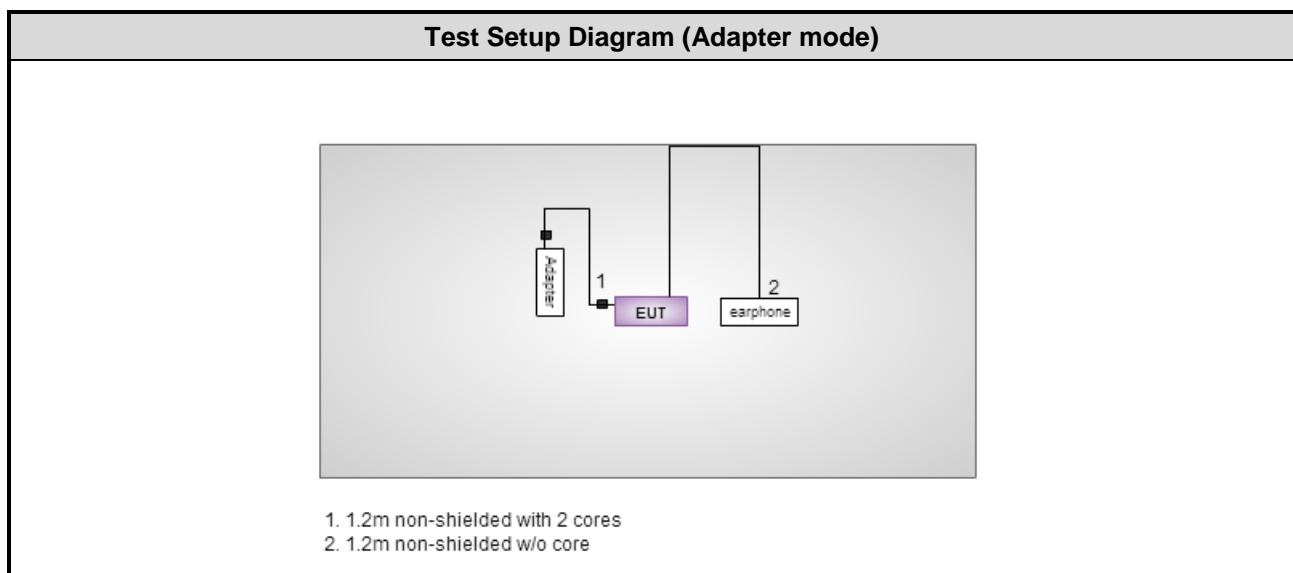


## 1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Adapter	NTT docomo	AC Adaptor 05	---	---	---
2	Earphone	APPLE	MD827FE/A	6	---	1.2m non-shielded w/o core

Note: Item 1 was provided by client.

## 1.3 Test Setup Chart



## 1.4 The Equipment List

<b>Test Item</b>	RF Conducted				
<b>Test Site</b>	(TH01-WS)				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Spectrum Analyzer	R&S	FSV40	101063	Feb. 03, 2015	Feb. 02, 2016
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 03, 2014	Dec. 02, 2015
Power Meter	Anritsu	ML2495A	1241002	Sep. 29, 2014	Sep. 28, 2015
Power Sensor	Anritsu	MA2411B	1207366	Sep. 29, 2014	Sep. 28, 2015
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	Radiated Emission				
<b>Test Site</b>	966 chamber 3 / (03CH03-WS)				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 16, 2014	Sep. 15, 2015
Receiver	Agilent	N9038A	MY53290044	Oct. 21, 2014	Oct. 20, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-562	Jan. 19, 2015	Jan. 18, 2016
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 03, 2015	Feb. 02, 2016
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 10, 2014	Nov. 09, 2015
Loop Antenna	R&S	HFH2-Z2	11900	Nov. 10, 2014	Nov. 09, 2015
Preamplifier	EMC	EMC02325	980187	Sep. 26, 2014	Sep. 25, 2015
Preamplifier	Agilent	83017A	MY53270014	Sep. 17, 2014	Sep. 16, 2015
Preamplifier	EMC	EMC184045B	980192	Aug. 26, 2014	Aug. 25, 2015
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 09, 2015	Feb. 08, 2016
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22601/4	Feb. 09, 2015	Feb. 08, 2016
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 09, 2015	Feb. 08, 2016
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 09, 2015	Feb. 08, 2016
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 09, 2015	Feb. 08, 2016
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 09, 2015	Feb. 08, 2016
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 1 / (CO01-WS)				
<b>Instrument</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
EMC Receiver	R&S	ESCS 30	100169	Oct. 17, 2014	Oct. 16, 2015
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 17, 2014	Nov. 16, 2015
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 31, 2014	Dec. 30, 2015
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

## 1.5 Testing Applied Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC 789033 D02 General UNII Test Procedures New Rules v01

FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01

## 1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Power density	±0.463 dB
Conducted emission	±2.670 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.99 dB
Radiated emission > 1GHz	±5.52 dB
Time	±0.1%
Temperature	±0.6 °C

## 2 Test Configuration

### 2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	18°C / 76%	Peter Lin
Radiated Emissions	03CH03-WS	20-21°C / 63-64%	Aska Huang
RF Conducted	TH01-WS	22°C / 65%	Brad Wu

➤ FCC site registration No.: 390588

➤ IC site registration No.: 10807C-1

### 2.2 The Worst Test Modes and Channel Details

Frequency band		5150~5350 MHz / 5470~5725 MHz		
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	HT40	5230	MCS 8	1, 2
Radiated Emissions ≤1GHz	HT40	5230	MCS 8	1, 2
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 8	
	HT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 8	
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0, N <sub>SS</sub> =2	
	VHT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 0, N <sub>SS</sub> =2	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0, N <sub>SS</sub> =2	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 8	
	HT40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670	MCS 8	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0, N <sub>SS</sub> =2	
Frequency Stability	Un-modulation	5320	---	1

**NOTE:**

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.
- The EUT had been tested by following test configurations for radiated emission below 1GHz.
  - Configuration 1 : Adapter mode
  - Configuration 2 : Cradle mode
- Adapter and cradle mode had been pretested for radiated emission above 1GHz and found that the adapter mode was the worst case and was selected for final test.

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

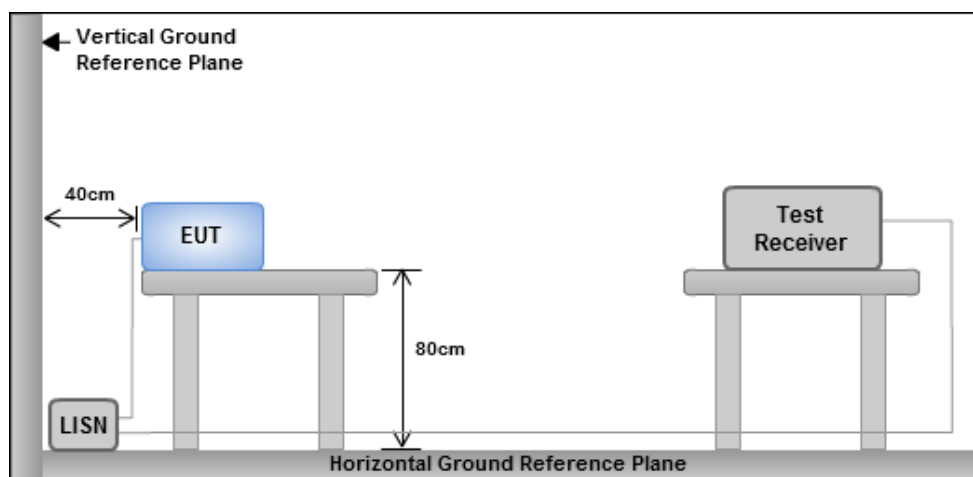
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

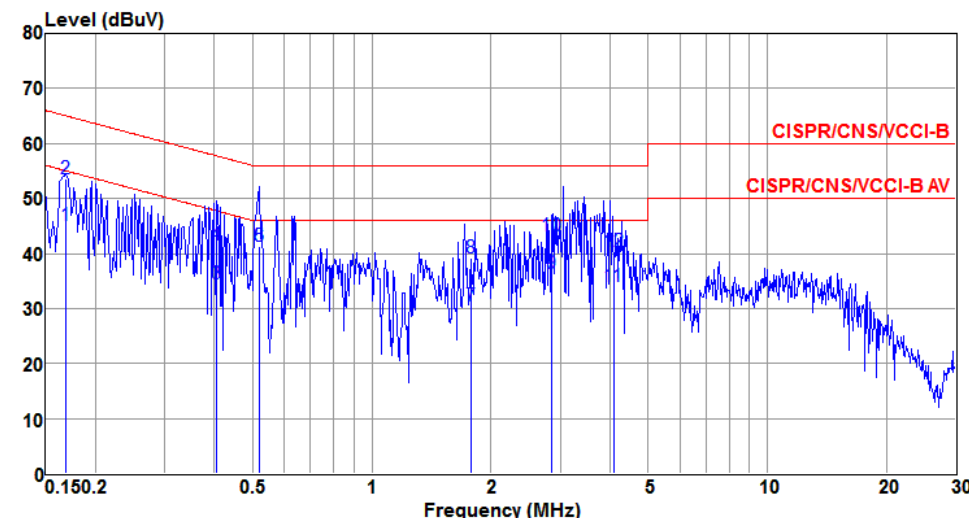
##### 3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

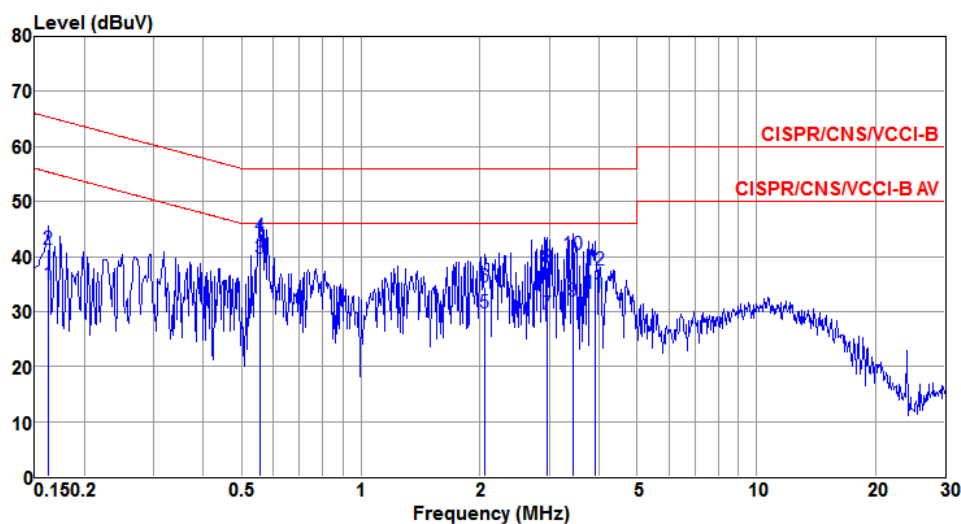
Modulation	HT40	Test Freq. (MHz)	5230
Power Phase	Line	Test Configuration	1

	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.169	45.16	55.03	-9.87	44.43	0.65	0.08	Average
2	0.169	53.56	65.03	-11.47	52.83	0.65	0.08	QP
3	0.405	34.43	47.75	-13.32	34.14	0.18	0.11	Average
4	0.405	41.46	57.75	-16.29	41.17	0.18	0.11	QP
5*	0.520	41.34	46.00	-4.66	41.07	0.15	0.12	Average
6	0.520	41.30	56.00	-14.70	41.03	0.15	0.12	QP
7	1.779	30.47	46.00	-15.53	29.70	0.54	0.23	Average
8	1.779	39.25	56.00	-16.75	38.48	0.54	0.23	QP
9	2.838	36.36	46.00	-9.64	35.64	0.44	0.28	Average
10	2.838	43.28	56.00	-12.72	42.56	0.44	0.28	QP
11	4.088	33.94	46.00	-12.06	33.36	0.27	0.31	Average
12	4.088	40.32	56.00	-15.68	39.74	0.27	0.31	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

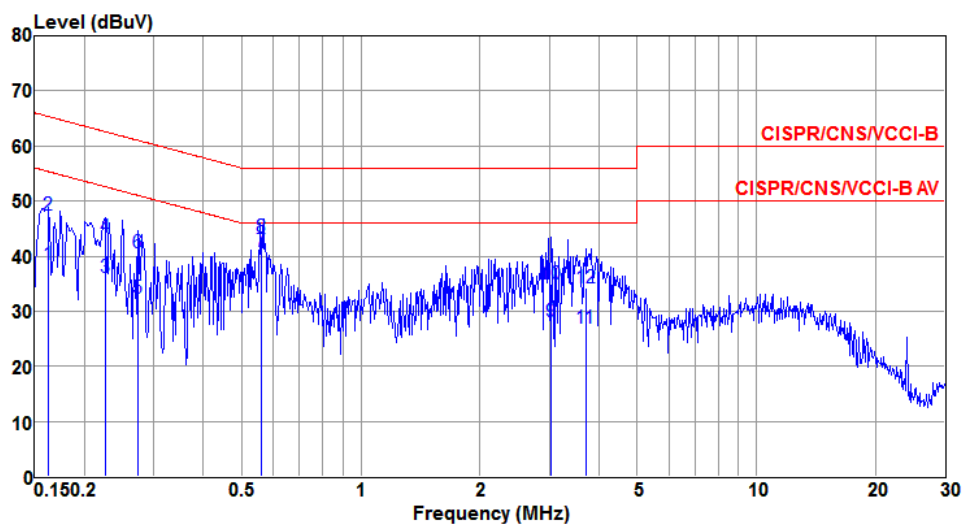
Modulation	HT40	Test Freq. (MHz)	5230
Power Phase	Neutral	Test Configuration	1



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.162	34.90	55.34	-20.44	34.14	0.68	0.08	Average
2	0.162	41.30	65.34	-24.04	40.54	0.68	0.08	QP
3*	0.557	39.68	46.00	-6.32	39.37	0.18	0.13	Average
4	0.557	43.67	56.00	-12.33	43.36	0.18	0.13	QP
5	2.055	29.75	46.00	-16.25	29.27	0.24	0.24	Average
6	2.055	34.43	56.00	-21.57	33.95	0.24	0.24	QP
7	2.962	29.53	46.00	-16.47	28.73	0.52	0.28	Average
8	2.962	38.03	56.00	-17.97	37.23	0.52	0.28	QP
9	3.448	31.90	46.00	-14.10	30.98	0.63	0.29	Average
10	3.448	40.39	56.00	-15.61	39.47	0.63	0.29	QP
11	3.901	33.35	46.00	-12.65	32.32	0.72	0.31	Average
12	3.901	37.47	56.00	-18.53	36.44	0.72	0.31	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	HT40	Test Freq. (MHz)	5230
Power Phase	Line	Test Configuration	2

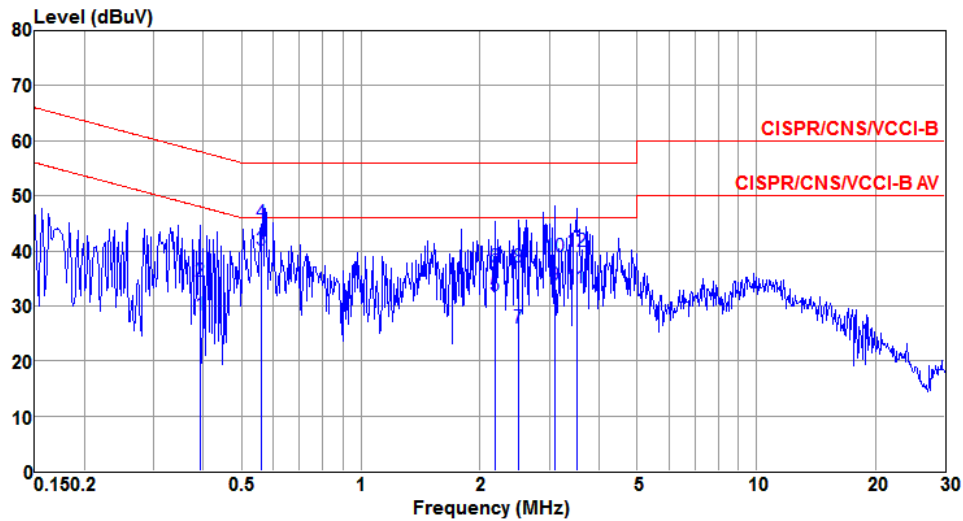


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.162	38.47	55.34	-16.87	37.66	0.73	0.08	Average
2	0.162	47.54	65.34	-17.80	46.73	0.73	0.08	QP
3	0.226	36.03	52.61	-16.58	35.70	0.24	0.09	Average
4	0.226	43.46	62.61	-19.15	43.13	0.24	0.09	QP
5	0.273	32.40	51.03	-18.63	32.08	0.22	0.10	Average
6	0.273	40.70	61.03	-20.33	40.38	0.22	0.10	QP
7*	0.561	40.91	46.00	-5.09	40.63	0.15	0.13	Average
8	0.561	43.32	56.00	-12.68	43.04	0.15	0.13	QP
9	3.025	28.19	46.00	-17.81	27.50	0.41	0.28	Average
10	3.025	34.84	56.00	-21.16	34.15	0.41	0.28	QP
11	3.700	27.00	46.00	-19.00	26.40	0.30	0.30	Average
12	3.700	34.18	56.00	-21.82	33.58	0.30	0.30	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).



Modulation	HT40	Test Freq. (MHz)	5230
Power Phase	Neutral	Test Configuration	2



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line dBuV	Limit dB	Level dBuV	factor dB	loss dB	Remark
1	0.391	28.36	48.03	-19.67	28.12	0.13	0.11	Average
2	0.391	34.49	58.03	-23.54	34.25	0.13	0.11	QP
3*	0.561	40.15	46.00	-5.85	39.84	0.18	0.13	Average
4	0.561	45.08	56.00	-10.92	44.77	0.18	0.13	QP
5	2.178	31.92	46.00	-14.08	31.38	0.29	0.25	Average
6	2.178	36.98	56.00	-19.02	36.44	0.29	0.25	QP
7	2.513	25.86	46.00	-20.14	25.21	0.39	0.26	Average
8	2.513	37.17	56.00	-18.83	36.52	0.39	0.26	QP
9	3.090	33.68	46.00	-12.32	32.85	0.55	0.28	Average
10	3.090	39.00	56.00	-17.00	38.17	0.55	0.28	QP
11	3.509	33.23	46.00	-12.77	32.29	0.64	0.30	Average
12	3.509	39.87	56.00	-16.13	38.93	0.64	0.30	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

## 3.2 Emission Bandwidth

### 3.2.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 3.2.2 Test Procedures

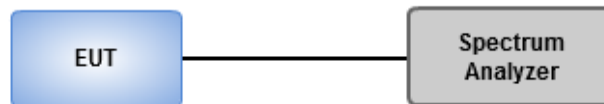
#### 26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

#### Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW
2. Set VBW  $\geq$  3 RBW
3. Sample detection and single sweep mode shall be used
4. Use the 99 % power bandwidth function of the instrument

### 3.2.3 Test Setup



### 3.2.4 Test Result of Emission Bandwidth

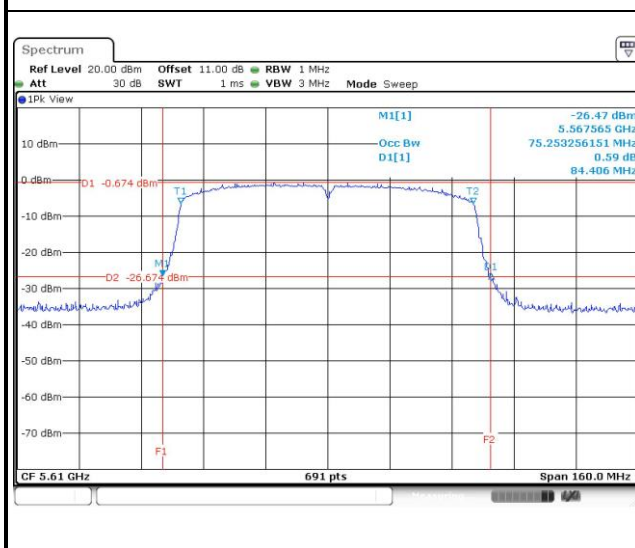
For Frequency band 5150~5250 MHz										
Mode	N <sub>TX</sub>	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
11a	1	5180	19.83	---	---	---	16.33	---	---	---
11a	1	5200	19.71	---	---	---	16.32	---	---	---
11a	1	5240	20.23	---	---	---	16.34	---	---	---
HT20	2	5180	20.17	20.58	---	---	17.43	17.43	---	---
HT20	2	5200	20.00	20.58	---	---	17.42	17.42	---	---
HT20	2	5240	20.06	20.58	---	---	17.42	17.43	---	---
HT40	2	5190	41.16	41.97	---	---	35.88	36.00	---	---
HT40	2	5230	41.28	41.97	---	---	35.86	35.98	---	---
VHT80	2	5210	82.32	83.94	---	---	75.08	75.28	---	---

For Frequency band 5250~5350 MHz											
Mode	N <sub>TX</sub>	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5260	20.06	---	---	---	16.32	---	---	---	24.00
11a	1	5300	20.41	---	---	---	16.34	---	---	---	24.00
11a	1	5320	20.29	---	---	---	16.34	---	---	---	24.00
HT20	2	5260	20.12	20.64	---	---	17.42	17.43	---	---	24.00
HT20	2	5300	20.17	20.64	---	---	17.43	17.43	---	---	24.00
HT20	2	5320	20.12	20.41	---	---	17.42	17.43	---	---	24.00
HT40	2	5270	41.86	41.97	---	---	35.90	35.94	---	---	24.00
HT40	2	5310	41.39	41.86	---	---	35.90	35.96	---	---	24.00
VHT80	2	5290	83.25	82.78	---	---	75.12	75.24	---	---	24.00

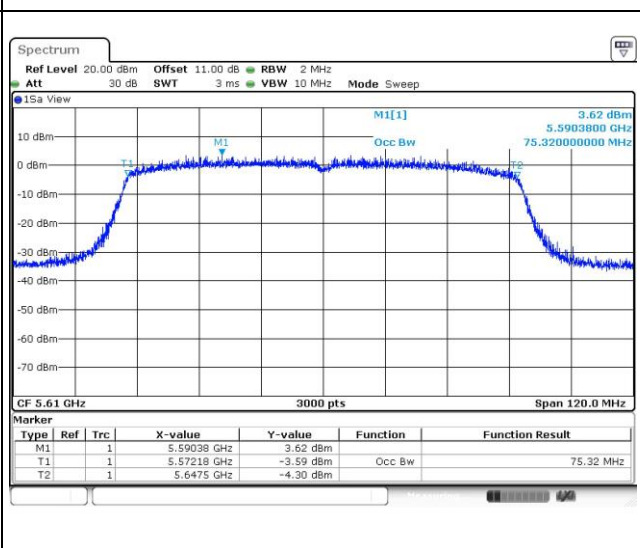
For Frequency band 5470~5725 MHz

Mode	N <sub>TX</sub>	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5500	20.23	---	---	---	16.32	---	---	---	24.00
11a	1	5580	20.93	---	---	---	16.32	---	---	---	24.00
11a	1	5700	20.12	---	---	---	16.33	---	---	---	24.00
HT20	2	5500	20.17	20.35	---	---	17.42	17.45	---	---	24.00
HT20	2	5580	20.17	20.23	---	---	17.43	17.43	---	---	24.00
HT20	2	5700	20.17	20.64	---	---	17.42	17.44	---	---	24.00
HT40	2	5510	41.86	42.09	---	---	35.90	35.98	---	---	24.00
HT40	2	5590	43.48	42.32	---	---	35.94	36.02	---	---	24.00
HT40	2	5670	42.20	42.44	---	---	35.96	36.04	---	---	24.00
VHT80	2	5530	83.48	84.41	---	---	75.28	75.24	---	---	24.00
VHT80	2	5610	83.71	84.41	---	---	75.12	75.32	---	---	24.00

Worst Plots of 26dB Bandwidth



Worst Plots of 99% Bandwidth



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

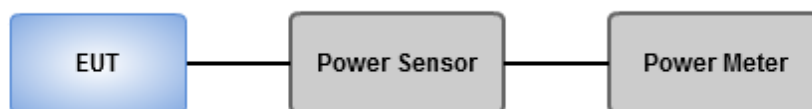
Frequency band 5150-5250 MHz		
Operating Mode		Limit
<input type="checkbox"/>	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
<input type="checkbox"/>	Indoor access point	Conducted Power: 1 W
<input type="checkbox"/>	Fixed point-to-point access points	Conducted Power: 1 W
<input checked="" type="checkbox"/>	Mobile and portable client devices	Conducted Power: 250 mW

Frequency Band (MHz)		Limit
<input checked="" type="checkbox"/>	5250 ~ 5350	250mW or 11dBm+10 log B
<input checked="" type="checkbox"/>	5470 ~ 5725	250mW or 11dBm+10 log B
Note: "B" is the 26dB emission bandwidth in MHz.		

#### 3.3.2 Test Procedures

- ☒ Power meter
  - ☒ Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required

#### 3.3.3 Test Setup



### 3.3.4 Test Result of Maximum Conducted Output Power

For Frequency band 5150~5250 MHz									
Mode	N <sub>TX</sub>	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5180	13.26	---	---	---	21.184	13.26	24.00
11a	1	5200	13.28	---	---	---	21.281	13.28	24.00
11a	1	5240	13.19	---	---	---	20.845	13.19	24.00
HT20	2	5180	10.92	9.43	---	---	21.129	13.25	24.00
HT20	2	5200	10.75	9.40	---	---	20.595	13.14	24.00
HT20	2	5240	10.99	9.64	---	---	21.765	13.38	24.00
HT40	2	5190	11.25	10.02	---	---	23.381	13.69	24.00
HT40	2	5230	11.33	10.00	---	---	23.583	<b>13.73</b>	24.00
VHT20	2	5180	9.78	8.34	---	---	16.329	12.13	24.00
VHT20	2	5200	9.76	8.35	---	---	16.301	12.12	24.00
VHT20	2	5240	9.79	8.61	---	---	16.789	12.25	24.00
VHT40	2	5190	10.32	9.07	---	---	18.837	12.75	24.00
VHT40	2	5230	10.42	9.02	---	---	18.995	12.79	24.00
VHT80	2	5210	9.30	8.04	---	---	14.879	11.73	24.00

For Frequency band 5250~5350 MHz									
Mode	N <sub>TX</sub>	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5260	13.17	---	---	---	20.749	13.17	24.00
11a	1	5300	12.90	---	---	---	19.498	12.90	24.00
11a	1	5320	12.81	---	---	---	19.099	12.81	24.00
HT20	2	5260	10.68	9.50	---	---	20.608	13.14	24.00
HT20	2	5300	10.77	9.53	---	---	20.914	13.20	24.00
HT20	2	5320	10.42	9.55	---	---	20.031	13.02	24.00
HT40	2	5270	11.21	10.11	---	---	23.469	<b>13.71</b>	24.00
HT40	2	5310	11.07	9.99	---	---	22.771	13.57	24.00
VHT20	2	5260	9.72	8.51	---	---	16.471	12.17	24.00
VHT20	2	5300	9.42	8.65	---	---	16.078	12.06	24.00
VHT20	2	5320	9.33	8.48	---	---	15.617	11.94	24.00
VHT40	2	5270	10.17	9.16	---	---	18.641	12.70	24.00
VHT40	2	5310	10.05	9.14	---	---	18.319	12.63	24.00
VHT80	2	5290	8.89	8.00	---	---	14.054	11.48	24.00

For Frequency band 5470~5725 MHz									
Mode	N <sub>TX</sub>	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5500	11.25	---	---	---	13.335	11.25	24.00
11a	1	5580	11.62	---	---	---	14.521	11.62	24.00
11a	1	5700	11.28	---	---	---	13.428	11.28	24.00
HT20	2	5500	9.01	8.98	---	---	15.868	12.01	24.00
HT20	2	5580	9.36	9.21	---	---	16.967	12.30	24.00
HT20	2	5700	9.07	8.63	---	---	15.367	11.87	24.00
HT40	2	5510	9.56	9.50	---	---	17.949	12.54	24.00
HT40	2	5590	9.95	9.88	---	---	19.613	<b>12.93</b>	24.00
HT40	2	5670	9.76	9.20	---	---	17.780	12.50	24.00
VHT20	2	5500	8.03	7.98	---	---	12.634	11.02	24.00
VHT20	2	5580	8.57	8.04	---	---	13.562	11.32	24.00
VHT20	2	5700	8.15	7.31	---	---	11.914	10.76	24.00
VHT40	2	5510	8.68	8.63	---	---	14.674	11.67	24.00
VHT40	2	5590	9.28	8.53	---	---	15.601	11.93	24.00
VHT40	2	5670	8.85	8.28	---	---	14.403	11.58	24.00
VHT80	2	5530	7.70	7.52	---	---	11.538	10.62	24.00
VHT80	2	5610	7.90	7.36	---	---	11.611	10.65	24.00

### 3.4 Peak Power Spectral Density

#### 3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
<input type="checkbox"/>	Outdoor access point	17 dBm / MHz
<input type="checkbox"/>	Indoor access point	17 dBm / MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm / MHz
<input checked="" type="checkbox"/>	Mobile and portable client devices	11 dBm / MHz

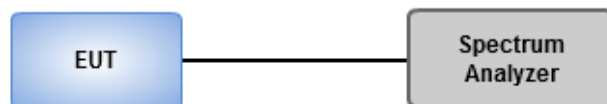
Frequency Band (MHz)		Limit
<input checked="" type="checkbox"/>	5250 ~ 5350	11 dBm / MHz
<input checked="" type="checkbox"/>	5470 ~ 5725	11 dBm / MHz



### 3.4.2 Test Procedures

- ☒ Method SA-1 (for 11a, HT20)
  1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
  2. Trace average 100 traces.
  3. Use the peak marker function to determine the maximum amplitude level.
- ☒ Method SA-2 Alternative (for HT40, VHT80)
  1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
  2. Set sweep time  $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$ .
  3. Perform a single sweep.
  4. Use the peak marker function to determine the maximum amplitude level.
  5. Add  $10 \log(1/x)$ , where x is the duty cycle.

### 3.4.3 Test Setup



### 3.4.4 Test Result of Peak Power Spectral Density

Frequency band			5150~5250 MHz / 5250~5350 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N <sub>TX</sub>	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	1	5180	0.18	0.00	0.18	11
11a	1	5200	0.22	0.00	0.22	11
11a	1	5240	-0.46	0.00	-0.46	11
HT20	2	5180	0.73	0.00	0.73	11
HT20	2	5200	0.75	0.00	0.75	11
HT20	2	5240	0.76	0.00	0.76	11
HT40	2	5190	-2.44	0.28	-2.16	11
HT40	2	5230	-1.71	0.28	-1.43	11
VHT80	2	5210	-7.82	0.57	-7.25	11
11a	1	5260	-0.49	0.00	-0.49	11
11a	1	5300	-0.59	0.00	-0.59	11
11a	1	5320	-0.73	0.00	-0.73	11
HT20	2	5260	0.87	0.00	0.87	11
HT20	2	5300	0.68	0.00	0.68	11
HT20	2	5320	0.71	0.00	0.71	11
HT40	2	5270	-2.36	0.28	-2.08	11
HT40	2	5310	-2.55	0.28	-2.27	11
VHT80	2	5290	-7.98	0.57	-7.41	11

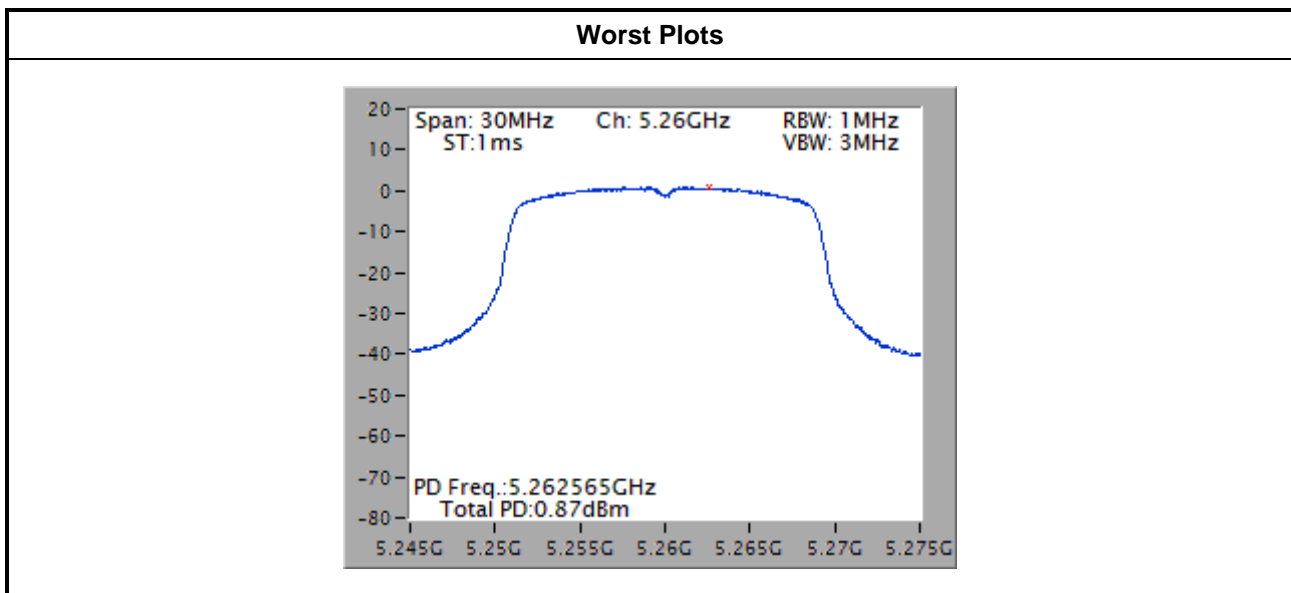
Note:

1. D.F is duty factor.
2. Test result is bin-by-bin for HT20/HT40/VHT80 summing measured value of each TX port.

Frequency band			5475~5725 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N <sub>TX</sub>	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	1	5500	-1.88	0.00	-1.88	11
11a	1	5580	-1.67	0.00	-1.67	11
11a	1	5700	-2.08	0.00	-2.08	11
HT20	2	5500	-0.32	0.00	-0.32	11
HT20	2	5580	-0.17	0.00	-0.17	11
HT20	2	5700	-0.88	0.00	-0.88	11
HT40	2	5510	-3.53	0.28	-3.25	11
HT40	2	5590	-3.31	0.28	-3.03	11
HT40	2	5670	-3.82	0.28	-3.54	11
VHT80	2	5530	-8.88	0.57	-8.31	11
VHT80	2	5610	-8.95	0.57	-8.38	11

Note:

1. D.F is duty factor.
2. Test result for HT20/HT40/VHT80 is bin-by-bin summing measured value of each TX port.



### 3.5 Transmitter Radiated and Band Edge Emissions

#### 3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

**Note 1:**  
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	5.715 5.725 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] 5.825 5.835 GHz: e.i.r.p. -17 dBm [78.2 dBuV/m@3m] Other un-restricted band: e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

**Note 1:** Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

### 3.5.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

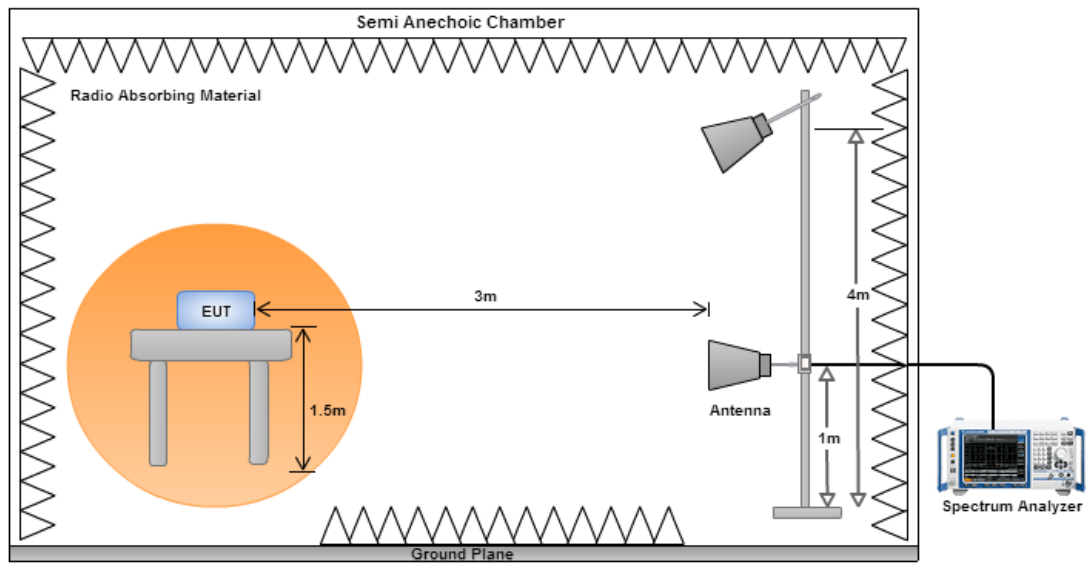
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz

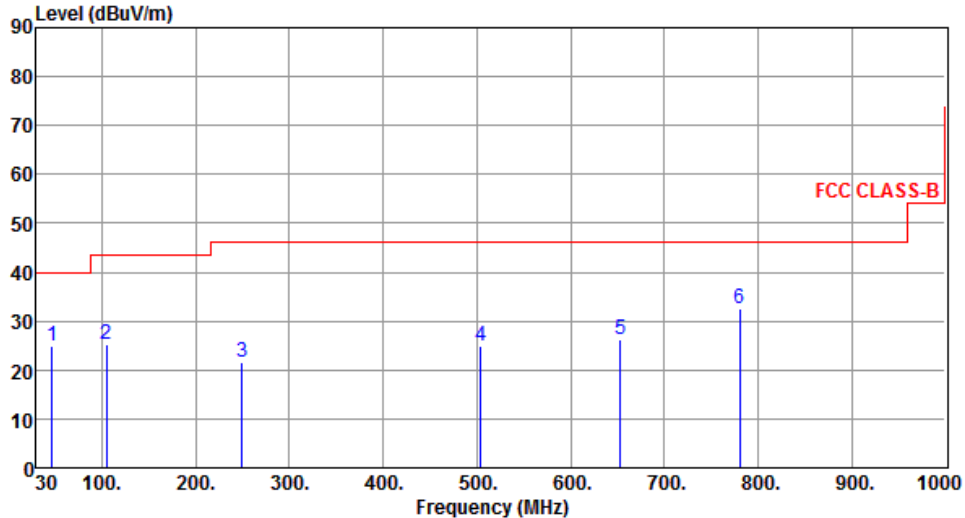


#### Radiated Emissions above 1 GHz



### 3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Horizontal	Test Configuration	1

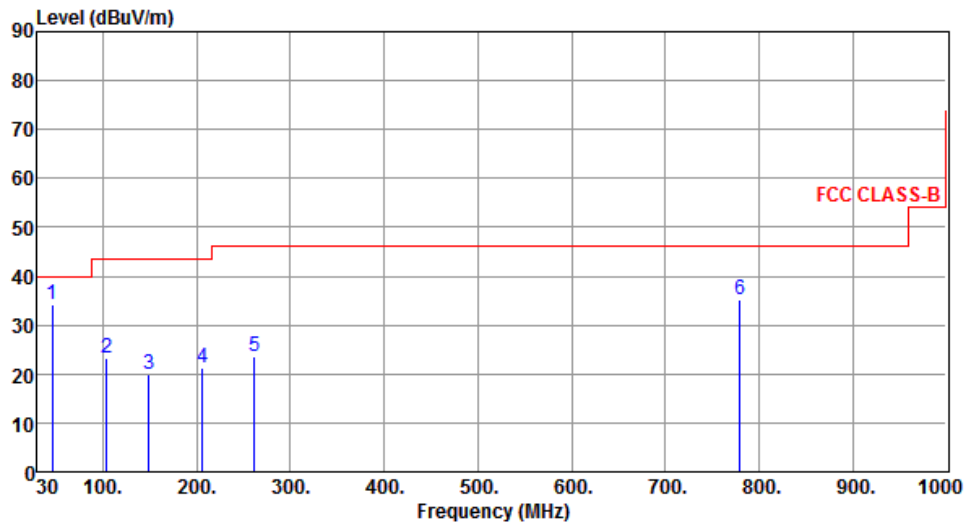
  


The graph displays the radiated unwanted emissions for HT40 modulation. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 1000 MHz, and 55 dBuV/m above 1000 MHz. Six measured peaks are labeled with blue numbers 1 through 6, corresponding to the data in the table below.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.49	24.92	40.00	-15.08	37.77	-12.85	Peak	---	---
2	104.69	25.18	43.50	-18.32	42.77	-17.59	Peak	---	---
3	249.22	21.75	46.00	-24.25	36.47	-14.72	Peak	---	---
4	504.33	25.03	46.00	-20.97	32.62	-7.59	Peak	---	---
5	652.74	26.17	46.00	-19.83	31.10	-4.93	Peak	---	---
6	780.78	32.57	46.00	-13.43	35.37	-2.80	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	45.52	34.18	40.00	-5.82	47.01	-12.83	Peak	---	---
2	103.72	23.16	43.50	-20.34	40.92	-17.76	Peak	---	---
3	149.31	19.90	43.50	-23.60	33.34	-13.44	Peak	---	---
4	206.54	21.11	43.50	-22.39	37.60	-16.49	Peak	---	---
5	261.83	23.58	46.00	-22.42	37.86	-14.28	Peak	---	---
6	779.81	35.19	46.00	-10.81	38.00	-2.81	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

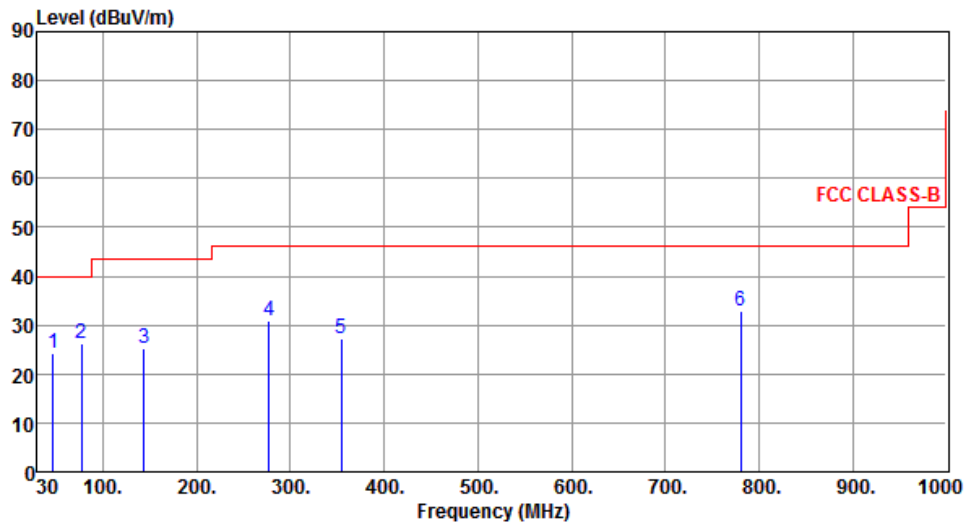
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.49	24.34	40.00	-15.66	37.19	-12.85	Peak	---	---
2	77.53	26.23	40.00	-13.77	43.21	-16.98	Peak	---	---
3	143.49	25.22	43.50	-18.28	38.85	-13.63	Peak	---	---
4	277.35	30.77	46.00	-15.23	44.30	-13.53	Peak	---	---
5	353.98	27.07	46.00	-18.93	38.41	-11.34	Peak	---	---
6	780.78	32.77	46.00	-13.23	35.57	-2.80	Peak	---	---

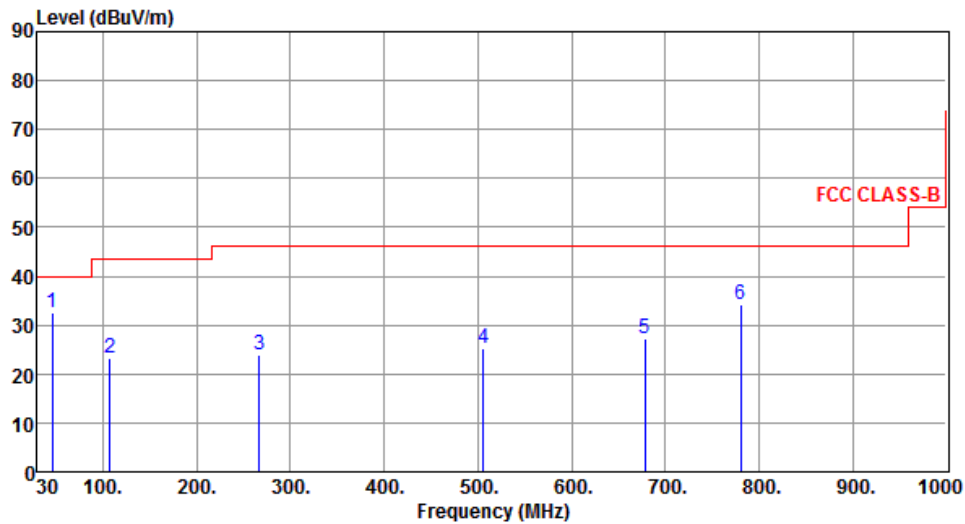
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	45.52	32.48	40.00	-7.52	45.31	-12.83	Peak	---	---
2	107.60	23.17	43.50	-20.33	40.22	-17.05	Peak	---	---
3	266.68	24.01	46.00	-21.99	38.04	-14.03	Peak	---	---
4	506.27	25.19	46.00	-20.81	32.76	-7.57	Peak	---	---
5	677.96	27.16	46.00	-18.84	31.76	-4.60	Peak	---	---
6	780.78	34.09	46.00	-11.91	36.89	-2.80	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

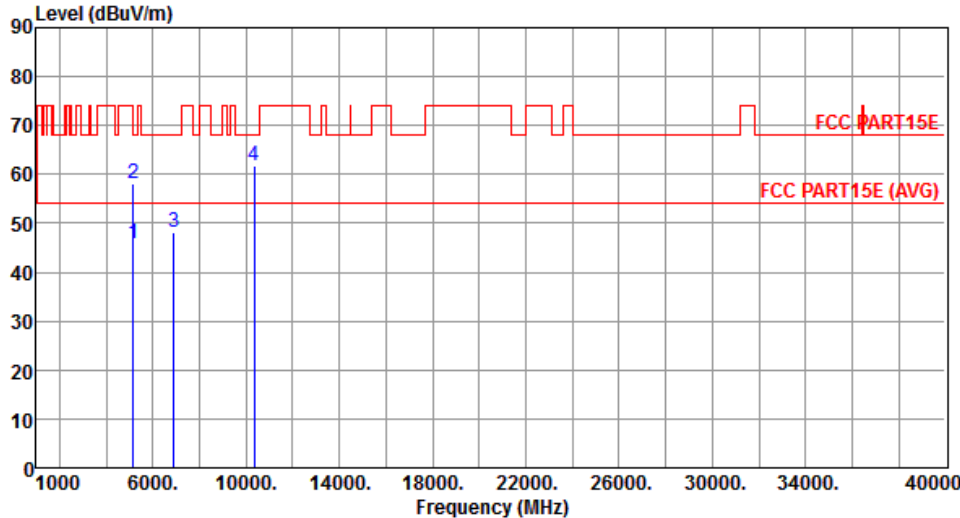
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

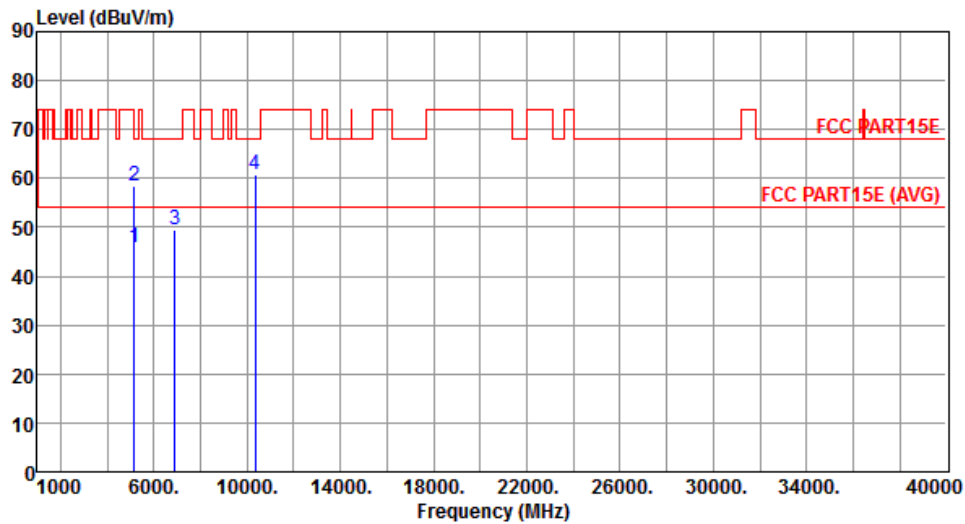
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal	Test Configuration	1

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.97	54.00	-8.03	39.39	6.58	Average	---	---
2	5150.00	58.11	74.00	-15.89	51.53	6.58	Peak	---	---
3	6906.66	48.06	68.20	-20.14	37.98	10.08	Peak	---	---
4	10360.00	61.80	68.20	-6.40	45.39	16.41	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical	Test Configuration	1



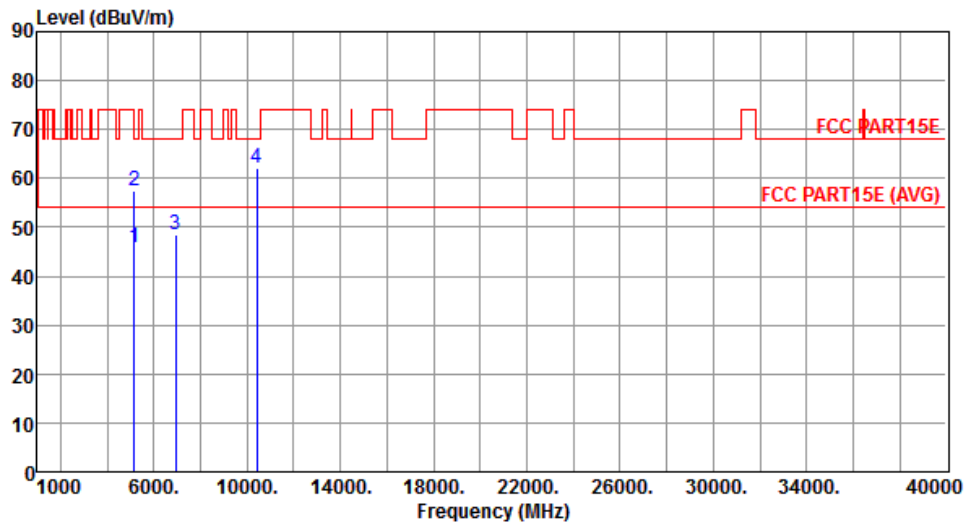
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.80	54.00	-8.20	39.22	6.58	Average	---	---
2	5150.00	58.54	74.00	-15.46	51.96	6.58	Peak	---	---
3	6906.66	49.41	68.20	-18.79	39.33	10.08	Peak	---	---
4	10360.00	60.80	68.20	-7.40	44.39	16.41	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal	Test Configuration	1



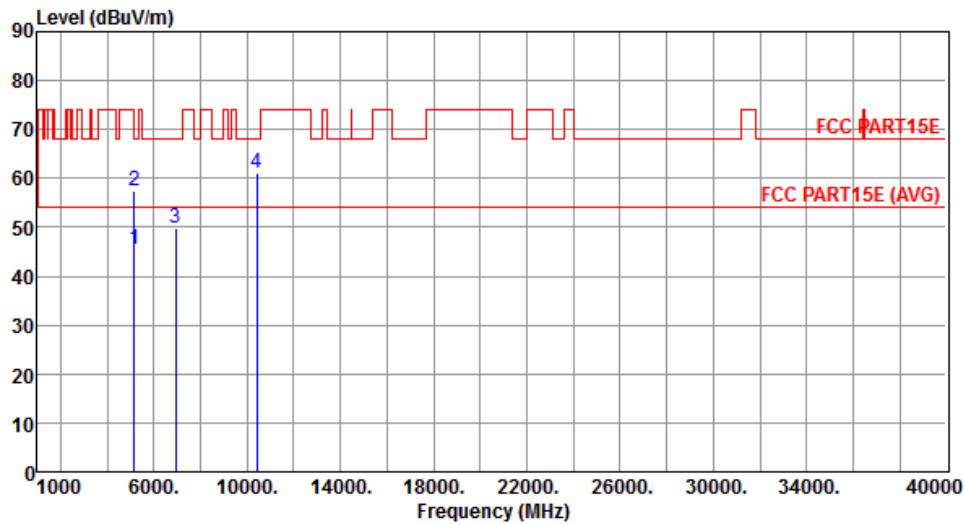
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.83	54.00	-8.17	39.25	6.58	Average	---	---
2	5150.00	57.57	74.00	-16.43	50.99	6.58	Peak	---	---
3	6933.33	48.48	68.20	-19.72	38.35	10.13	Peak	---	---
4	10400.00	61.94	68.20	-6.26	45.45	16.49	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical	Test Configuration	1



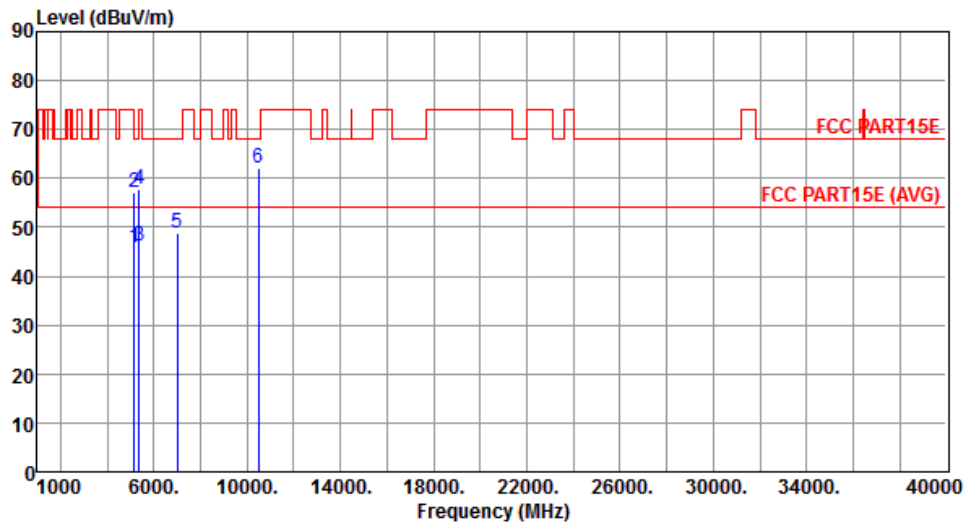
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.61	54.00	-8.39	39.03	6.58	Average	---	---
2	5150.00	57.47	74.00	-16.53	50.89	6.58	Peak	---	---
3	6933.33	49.75	68.20	-18.45	39.62	10.13	Peak	---	---
4	10400.00	60.98	68.20	-7.22	44.49	16.49	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal	Test Configuration	1



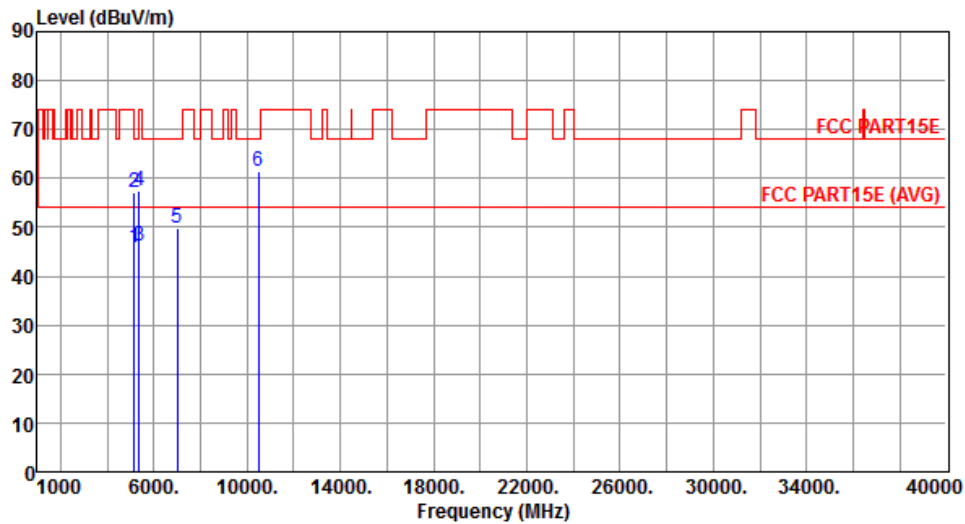
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.91	54.00	-8.09	39.33	6.58	Average	---	---
2	5150.00	57.12	74.00	-16.88	50.54	6.58	Peak	---	---
3	5350.00	46.28	54.00	-7.72	39.25	7.03	Average	---	---
4	5350.00	57.81	74.00	-16.19	50.78	7.03	Peak	---	---
5	6986.66	48.79	68.20	-19.41	38.57	10.22	Peak	---	---
6	10480.00	62.15	68.20	-6.05	45.49	16.66	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.74	54.00	-8.26	39.16	6.58	Average	---	---
2	5150.00	57.26	74.00	-16.74	50.68	6.58	Peak	---	---
3	5350.00	46.23	54.00	-7.77	39.20	7.03	Average	---	---
4	5350.00	57.60	74.00	-16.40	50.57	7.03	Peak	---	---
5	6986.66	49.67	68.20	-18.53	39.45	10.22	Peak	---	---
6	10480.00	61.28	68.20	-6.92	44.62	16.66	Peak	---	---

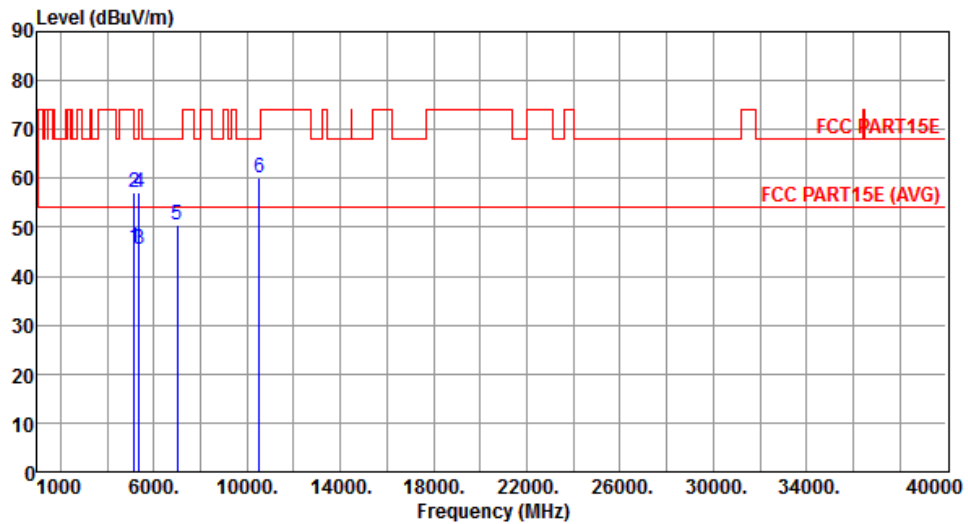
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal	Test Configuration	1



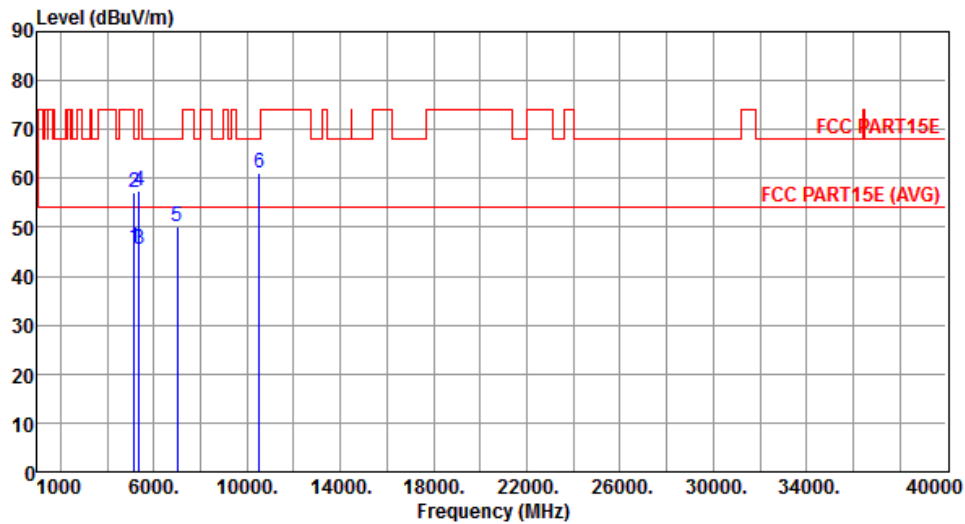
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.90	54.00	-8.10	39.32	6.58	Average	---	---
2	5150.00	57.14	74.00	-16.86	50.56	6.58	Peak	---	---
3	5350.00	45.65	54.00	-8.35	38.62	7.03	Average	---	---
4	5350.00	57.27	74.00	-16.73	50.24	7.03	Peak	---	---
5	7013.33	50.59	68.20	-17.61	40.31	10.28	Peak	---	---
6	10520.00	60.18	68.20	-8.02	43.46	16.72	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical	Test Configuration	1



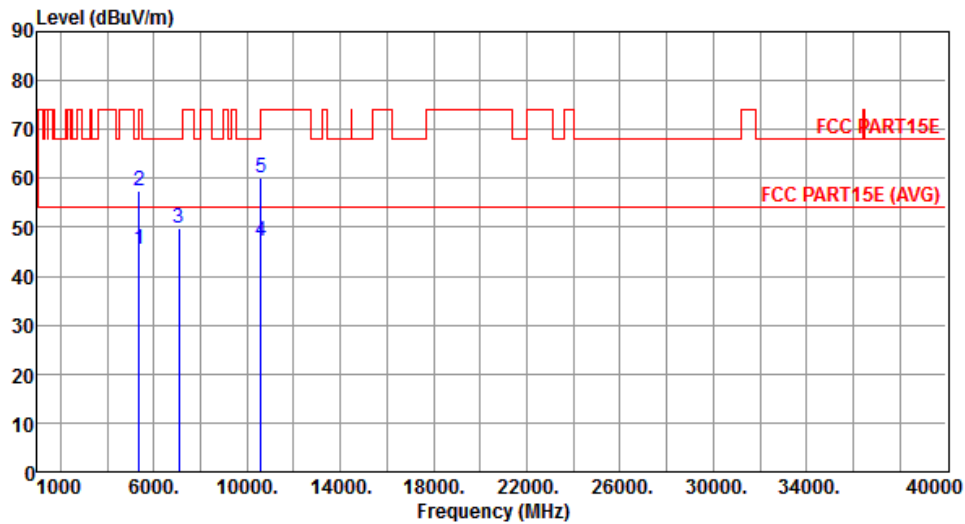
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.70	54.00	-8.30	39.12	6.58	Average	---	---
2	5150.00	57.01	74.00	-16.99	50.43	6.58	Peak	---	---
3	5350.00	45.56	54.00	-8.44	38.53	7.03	Average	---	---
4	5350.00	57.45	74.00	-16.55	50.42	7.03	Peak	---	---
5	7013.33	50.21	68.20	-17.99	39.93	10.28	Peak	---	---
6	10520.00	61.26	68.20	-6.94	44.54	16.72	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal	Test Configuration	1



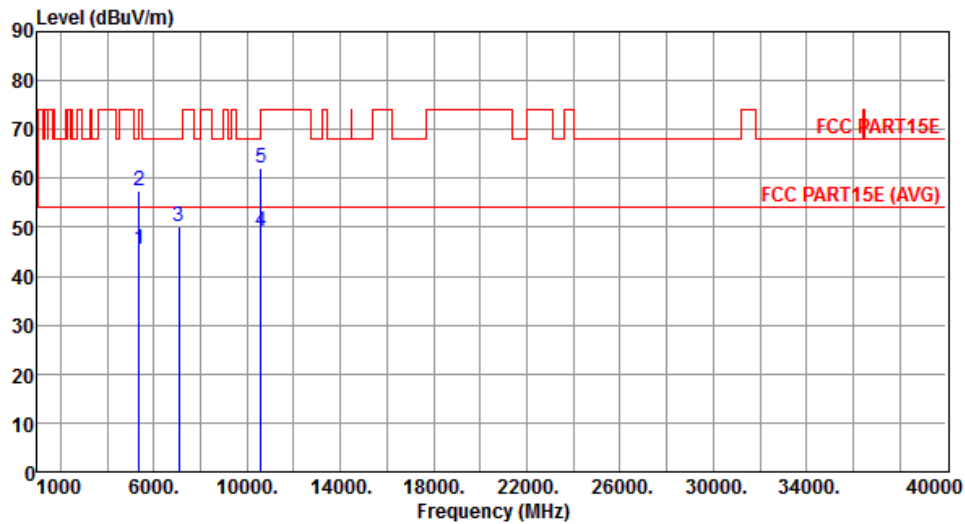
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.45	54.00	-8.55	38.42	7.03	Average	---	---
2	5350.00	57.34	74.00	-16.66	50.31	7.03	Peak	---	---
3	7066.66	49.74	68.20	-18.46	39.34	10.40	Peak	---	---
4	10600.00	47.24	54.00	-6.76	30.45	16.79	Average	---	---
5	10600.00	60.17	74.00	-13.83	43.38	16.79	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical	Test Configuration	1



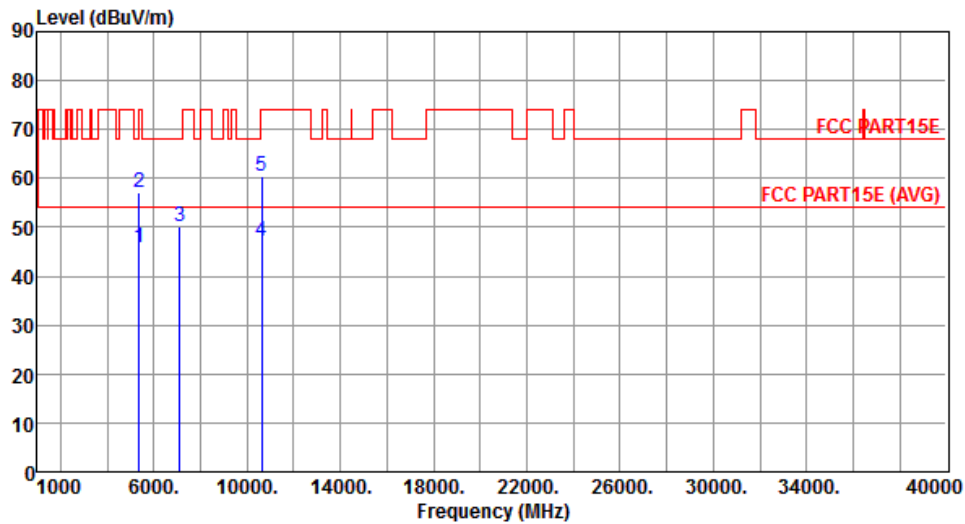
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.62	54.00	-8.38	38.59	7.03	Average	---	---
2	5350.00	57.44	74.00	-16.56	50.41	7.03	Peak	---	---
3	7066.66	50.16	68.20	-18.04	39.76	10.40	Peak	---	---
4	10600.00	49.04	54.00	-4.96	32.25	16.79	Average	---	---
5	10600.00	62.05	74.00	-11.95	45.26	16.79	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal	Test Configuration	1



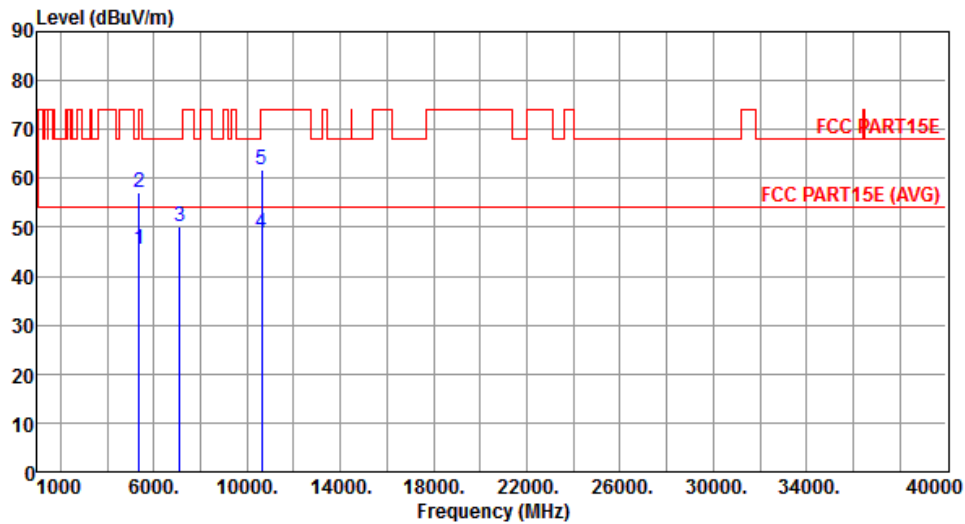
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.69	54.00	-8.31	38.66	7.03	Average	---	---
2	5350.00	57.16	74.00	-16.84	50.13	7.03	Peak	---	---
3	7093.33	50.12	68.20	-18.08	39.65	10.47	Peak	---	---
4	10640.00	47.32	54.00	-6.68	30.50	16.82	Average	---	---
5	10640.00	60.57	74.00	-13.43	43.75	16.82	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical	Test Configuration	1



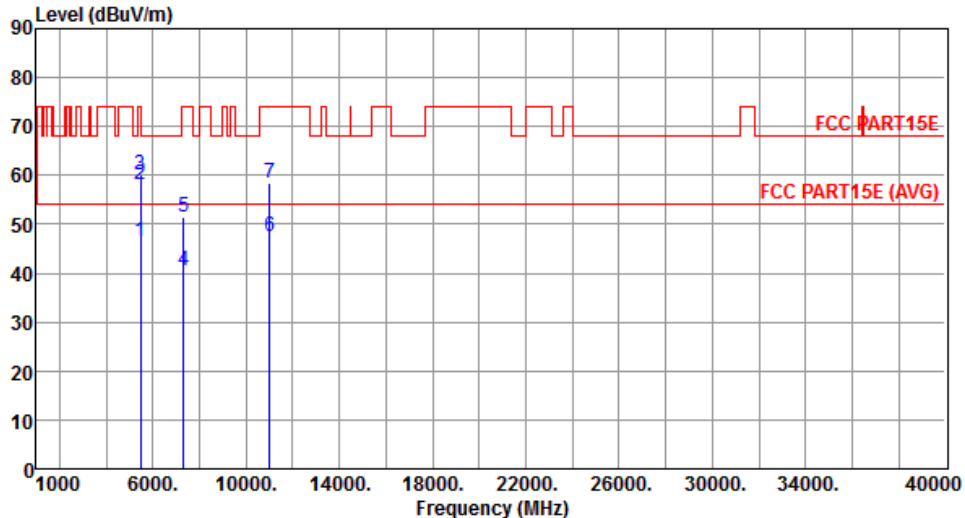
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.36	54.00	-8.64	38.33	7.03	Average	---	---
2	5350.00	57.23	74.00	-16.77	50.20	7.03	Peak	---	---
3	7093.33	50.02	68.20	-18.18	39.55	10.47	Peak	---	---
4	10640.00	48.90	54.00	-5.10	32.08	16.82	Average	---	---
5	10640.00	61.79	74.00	-12.21	44.97	16.82	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

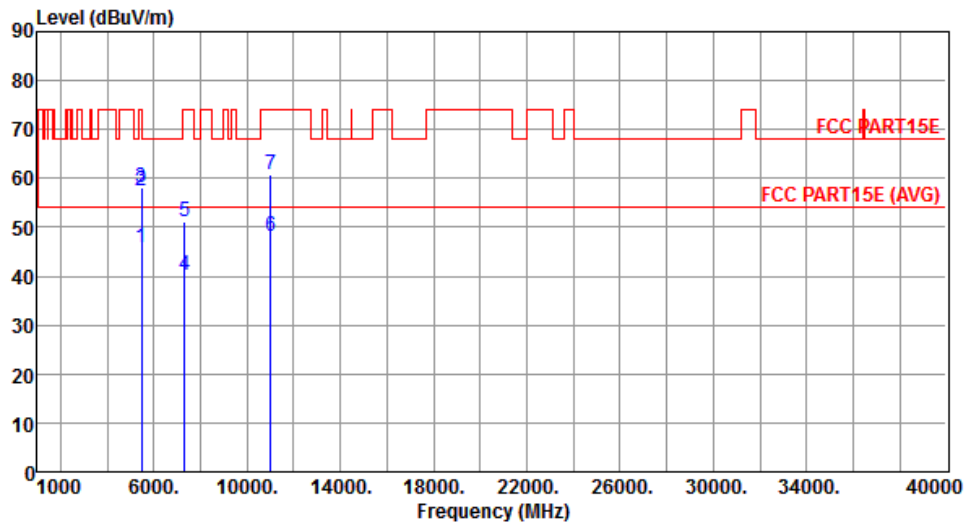
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal	Test Configuration	1

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.39	54.00	-7.61	39.25	7.14	Average	---	---
2	5460.00	58.26	74.00	-15.74	51.12	7.14	Peak	---	---
3	5470.00	60.05	68.20	-8.15	52.90	7.15	Peak	---	---
4	7333.33	40.43	54.00	-13.57	29.42	11.01	Average	---	---
5	7333.33	51.59	74.00	-22.41	40.58	11.01	Peak	---	---
6	11000.00	47.46	54.00	-6.54	30.35	17.11	Average	---	---
7	11000.00	58.48	74.00	-15.52	41.37	17.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.79	54.00	-8.21	38.65	7.14	Average	---	---
2	5460.00	57.39	74.00	-16.61	50.25	7.14	Peak	---	---
3	5470.00	58.02	68.20	-10.18	50.87	7.15	Peak	---	---
4	7333.33	40.32	54.00	-13.68	29.31	11.01	Average	---	---
5	7333.33	51.03	74.00	-22.97	40.02	11.01	Peak	---	---
6	11000.00	48.13	54.00	-5.87	31.02	17.11	Average	---	---
7	11000.00	60.73	74.00	-13.27	43.62	17.11	Peak	---	---

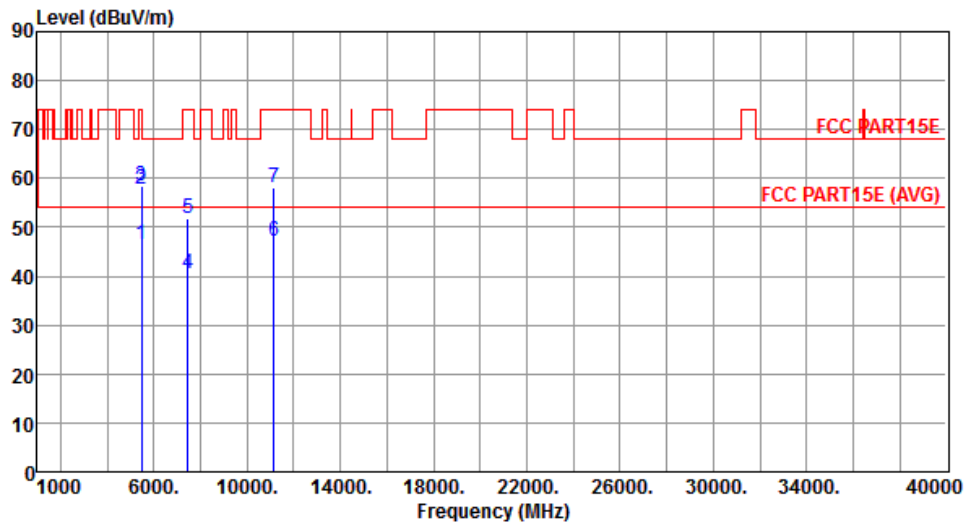
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal	Test Configuration	1



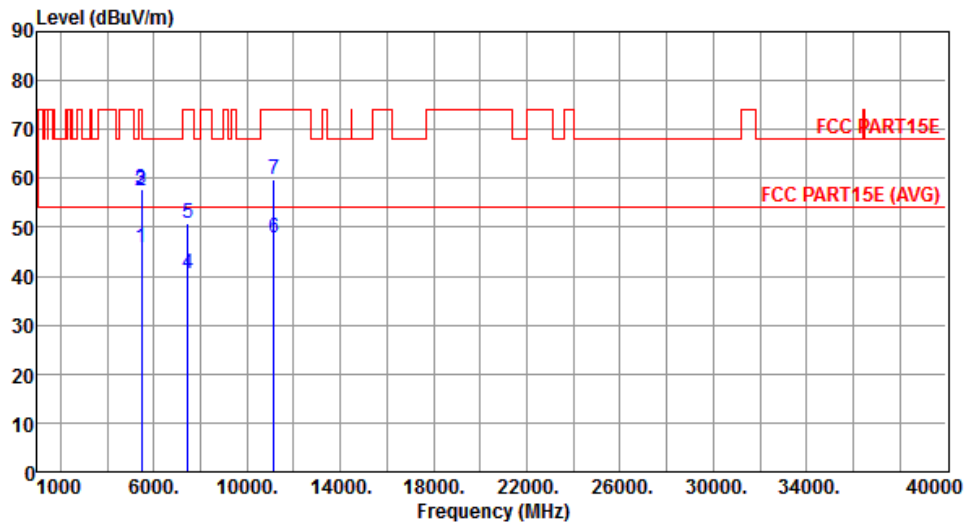
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.56	54.00	-7.44	39.42	7.14	Average	---	---
2	5460.00	57.66	74.00	-16.34	50.52	7.14	Peak	---	---
3	5470.00	58.49	68.20	-9.71	51.34	7.15	Peak	---	---
4	7440.00	40.52	54.00	-13.48	29.25	11.27	Average	---	---
5	7440.00	51.70	74.00	-22.30	40.43	11.27	Peak	---	---
6	11160.00	47.31	54.00	-6.69	30.14	17.17	Average	---	---
7	11160.00	58.22	74.00	-15.78	41.05	17.17	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical	Test Configuration	1



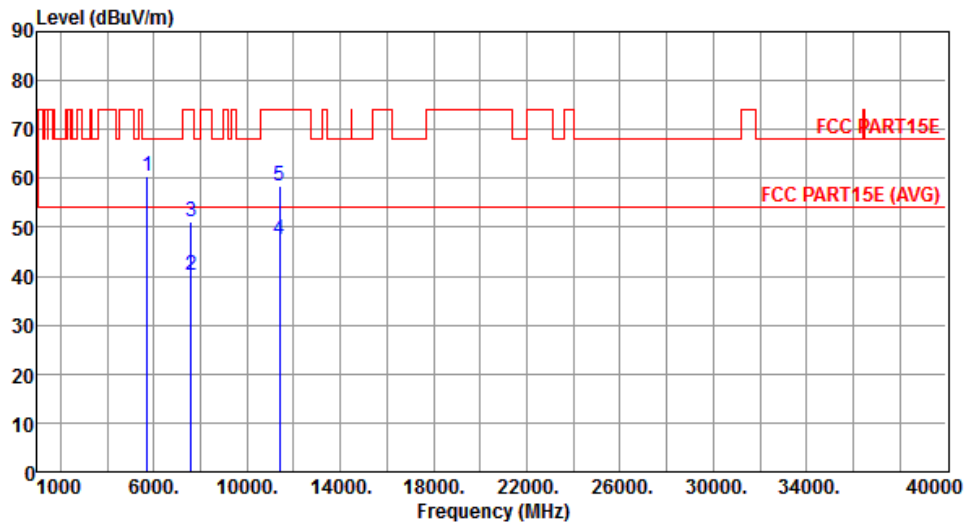
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.66	54.00	-8.34	38.52	7.14	Average	---	---
2	5460.00	57.56	74.00	-16.44	50.42	7.14	Peak	---	---
3	5470.00	57.66	68.20	-10.54	50.51	7.15	Peak	---	---
4	7440.00	40.53	54.00	-13.47	29.26	11.27	Average	---	---
5	7440.00	50.83	74.00	-23.17	39.56	11.27	Peak	---	---
6	11160.00	47.68	54.00	-6.32	30.51	17.17	Average	---	---
7	11160.00	59.84	74.00	-14.16	42.67	17.17	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal	Test Configuration	1



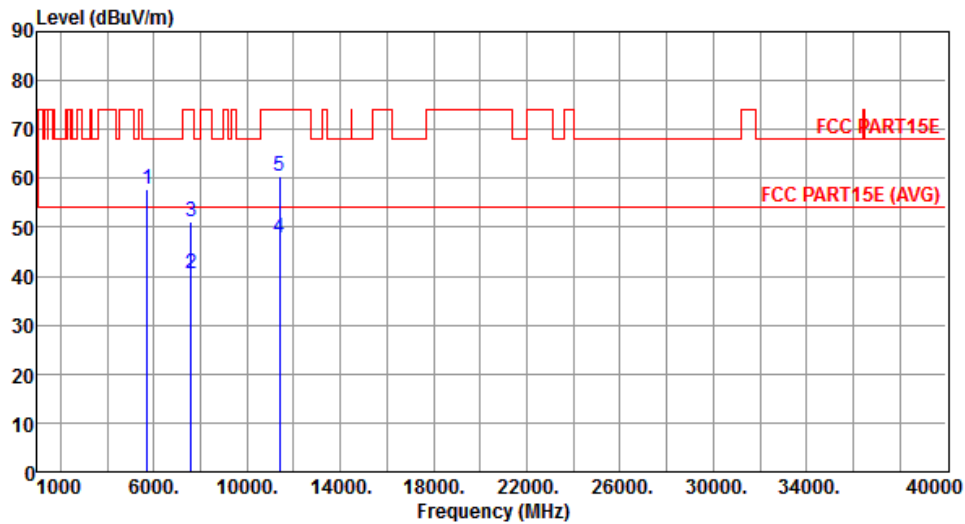
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	60.52	68.20	-7.68	52.95	7.57	Peak	---	---
2	7600.00	40.32	54.00	-13.68	28.65	11.67	Average	---	---
3	7600.00	51.22	74.00	-22.78	39.55	11.67	Peak	---	---
4	11400.00	47.38	54.00	-6.62	30.14	17.24	Average	---	---
5	11400.00	58.31	74.00	-15.69	41.07	17.24	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	57.80	68.20	-10.40	50.23	7.57	Peak	---	---
2	7600.00	40.63	54.00	-13.37	28.96	11.67	Average	---	---
3	7600.00	51.22	74.00	-22.78	39.55	11.67	Peak	---	---
4	11400.00	47.80	54.00	-6.20	30.56	17.24	Average	---	---
5	11400.00	60.46	74.00	-13.54	43.22	17.24	Peak	---	---

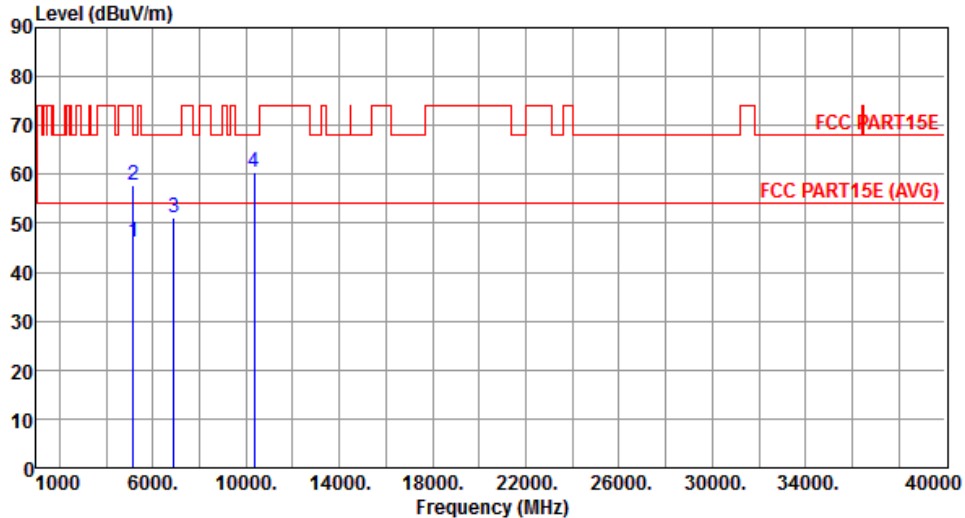
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

### 3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

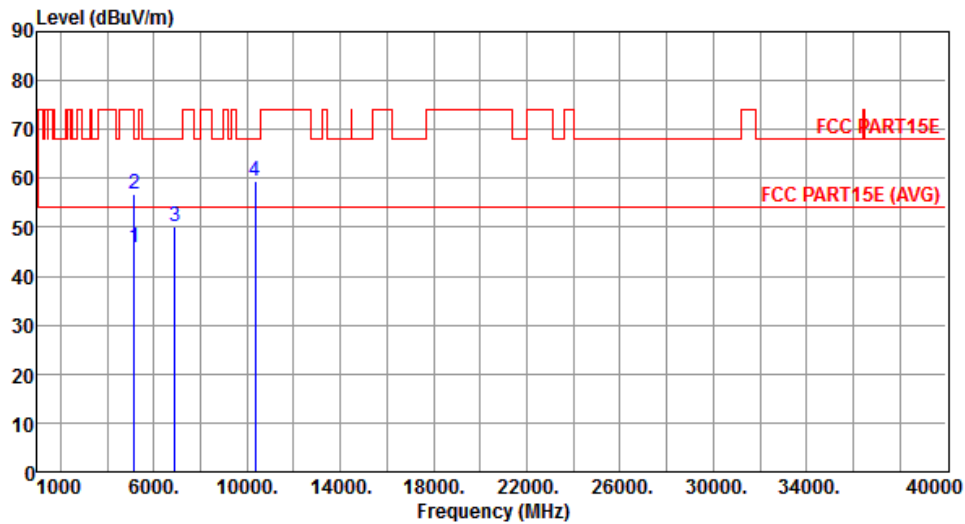
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Horizontal	Test Configuration	1

	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.09	54.00	-7.91	39.51	6.58	Average	---	---
2	5150.00	57.74	74.00	-16.26	51.16	6.58	Peak	---	---
3	6906.66	51.26	68.20	-16.94	41.18	10.08	Peak	---	---
4	10360.00	60.34	68.20	-7.86	43.93	16.41	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Vertical	Test Configuration	1



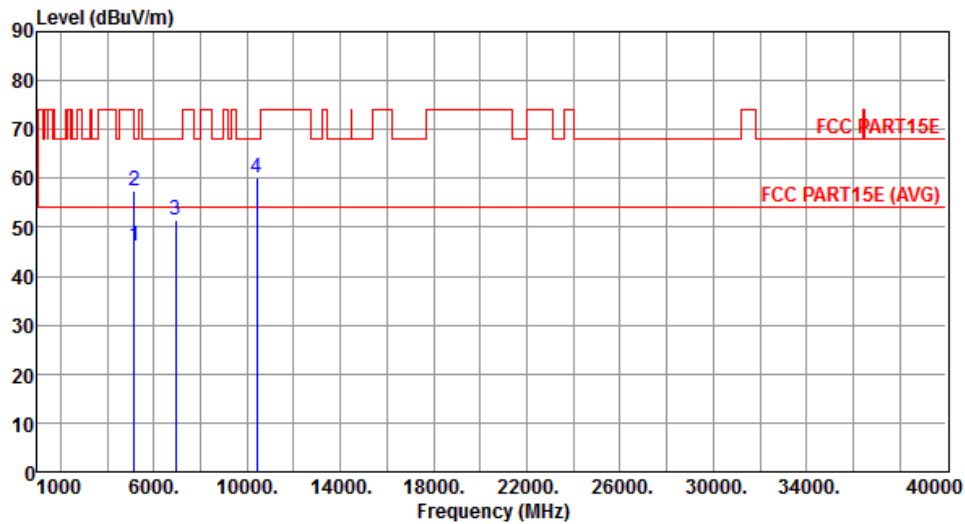
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.71	54.00	-8.29	39.13	6.58	Average	---	---
2	5150.00	56.85	74.00	-17.15	50.27	6.58	Peak	---	---
3	6906.66	50.30	68.20	-17.90	40.22	10.08	Peak	---	---
4	10360.00	59.38	68.20	-8.82	42.97	16.41	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Horizontal	Test Configuration	1



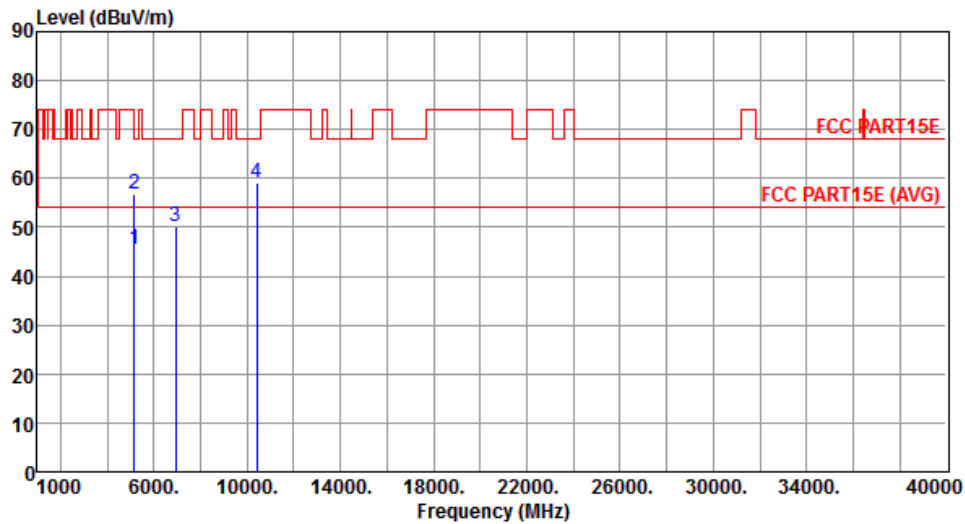
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.01	54.00	-7.99	39.43	6.58	Average	---	---
2	5150.00	57.41	74.00	-16.59	50.83	6.58	Peak	---	---
3	6933.33	51.41	68.20	-16.79	41.28	10.13	Peak	---	---
4	10400.00	60.06	68.20	-8.14	43.57	16.49	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.61	54.00	-8.39	39.03	6.58	Average	---	---
2	5150.00	56.73	74.00	-17.27	50.15	6.58	Peak	---	---
3	6933.33	50.15	68.20	-18.05	40.02	10.13	Peak	---	---
4	10400.00	58.98	68.20	-9.22	42.49	16.49	Peak	---	---

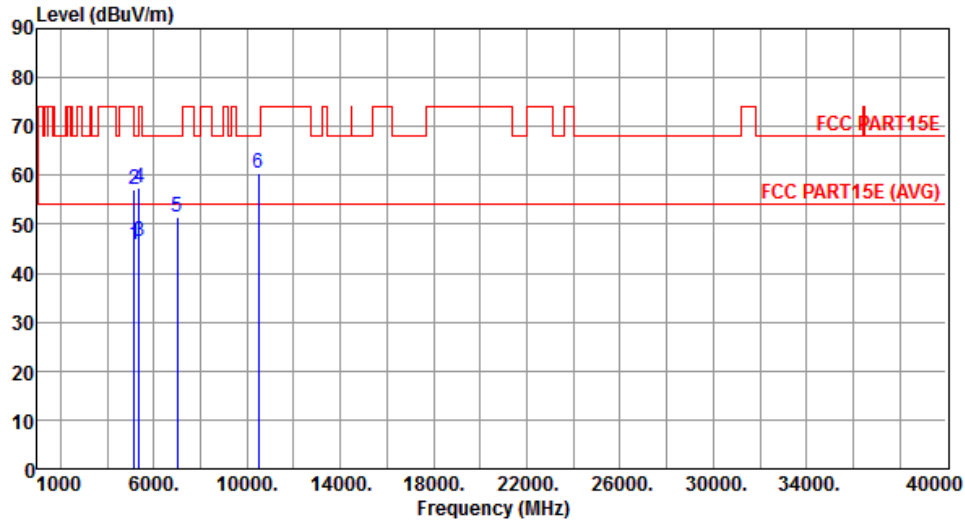
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Horizontal	Test Configuration	1



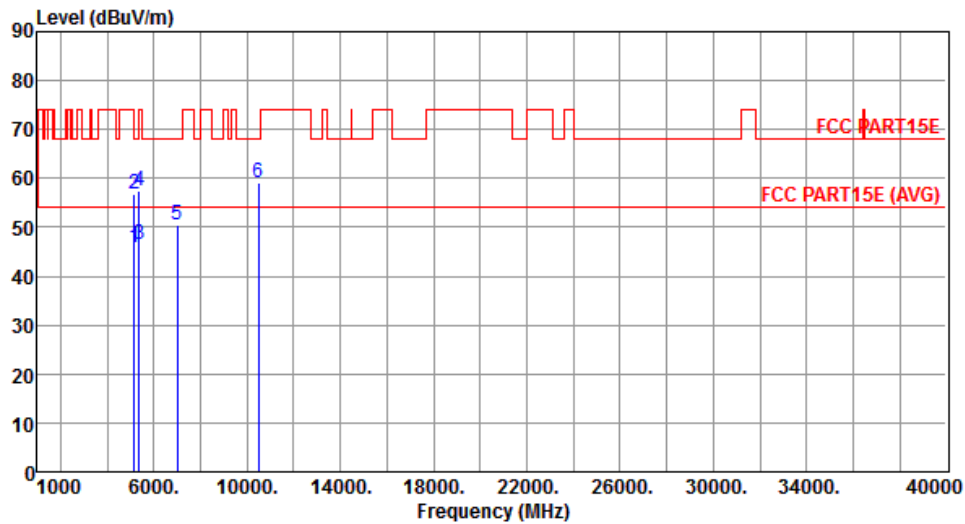
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.83	54.00	-8.17	39.25	6.58	Average	---	---
2	5150.00	57.07	74.00	-16.93	50.49	6.58	Peak	---	---
3	5350.00	46.36	54.00	-7.64	39.33	7.03	Average	---	---
4	5350.00	57.51	74.00	-16.49	50.48	7.03	Peak	---	---
5	6986.66	51.46	68.20	-16.74	41.24	10.22	Peak	---	---
6	10480.00	60.40	68.20	-7.80	43.74	16.66	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Vertical	Test Configuration	1



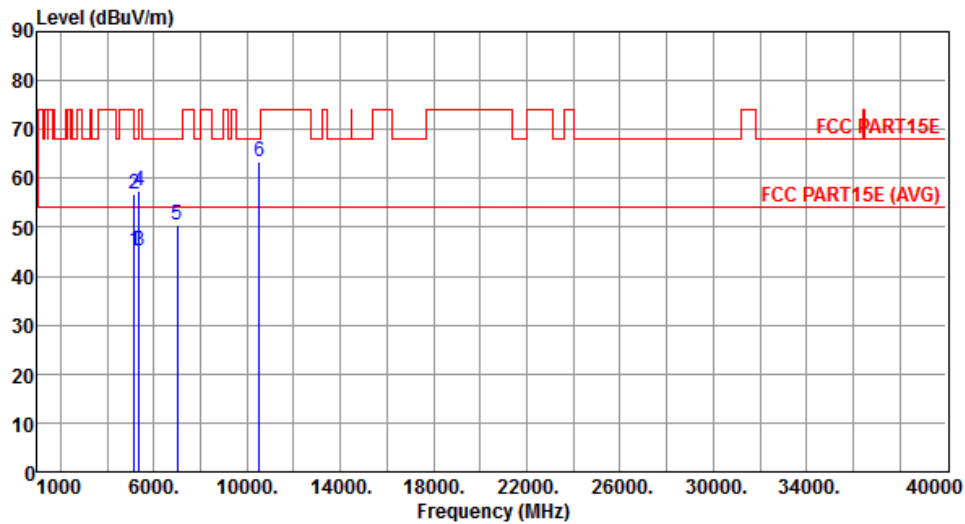
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.84	54.00	-8.16	39.26	6.58	Average	---	---
2	5150.00	56.77	74.00	-17.23	50.19	6.58	Peak	---	---
3	5350.00	46.33	54.00	-7.67	39.30	7.03	Average	---	---
4	5350.00	57.48	74.00	-16.52	50.45	7.03	Peak	---	---
5	6986.66	50.49	68.20	-17.71	40.27	10.22	Peak	---	---
6	10480.00	59.22	68.20	-8.98	42.56	16.66	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Horizontal	Test Configuration	1



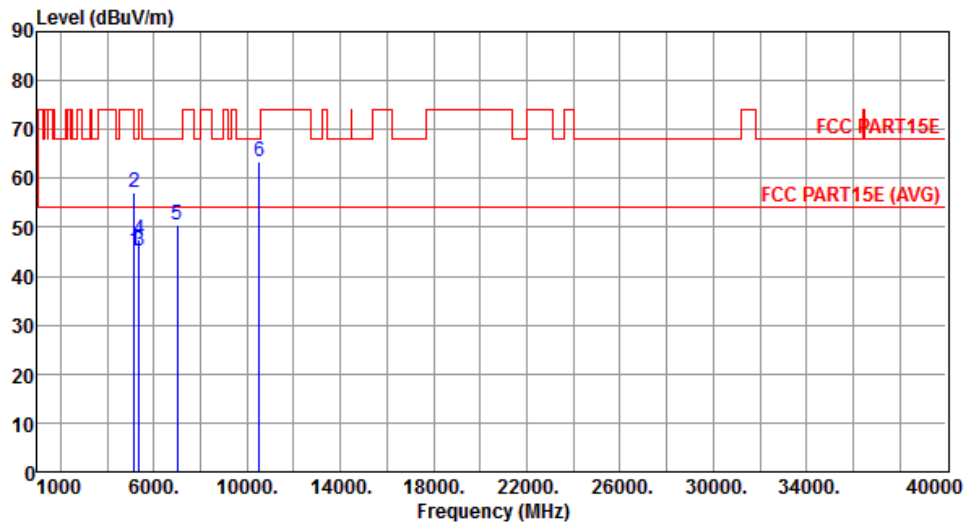
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.14	54.00	-8.86	38.56	6.58	Average	---	---
2	5150.00	56.86	74.00	-17.14	50.28	6.58	Peak	---	---
3	5350.00	45.24	54.00	-8.76	38.21	7.03	Average	---	---
4	5350.00	57.51	74.00	-16.49	50.48	7.03	Peak	---	---
5	7013.33	50.59	68.20	-17.61	40.31	10.28	Peak	---	---
6	10520.00	63.49	68.20	-4.71	46.77	16.72	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Vertical	Test Configuration	1



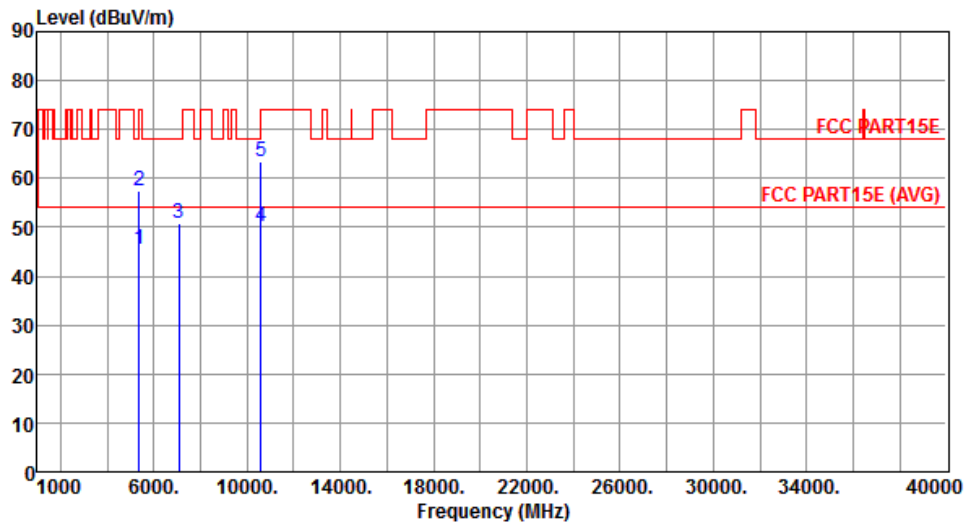
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.15	54.00	-8.85	38.57	6.58	Average	---	---
2	5150.00	57.10	74.00	-16.90	50.52	6.58	Peak	---	---
3	5350.00	45.31	54.00	-8.69	38.28	7.03	Average	---	---
4	5350.00	47.45	74.00	-26.55	40.42	7.03	Peak	---	---
5	7013.33	50.41	68.20	-17.79	40.13	10.28	Peak	---	---
6	10520.00	63.59	68.20	-4.61	46.87	16.72	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Horizontal	Test Configuration	1



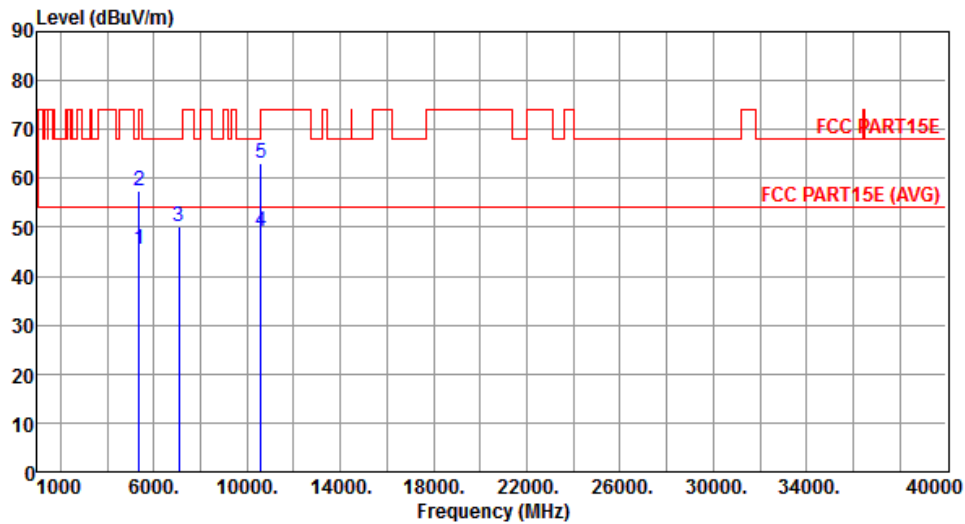
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.45	54.00	-8.55	38.42	7.03	Average	---	---
2	5350.00	57.40	74.00	-16.60	50.37	7.03	Peak	---	---
3	7066.66	50.65	68.20	-17.55	40.25	10.40	Peak	---	---
4	10600.00	50.00	54.00	-4.00	33.21	16.79	Average	---	---
5	10600.00	63.54	74.00	-10.46	46.75	16.79	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical	Test Configuration	1



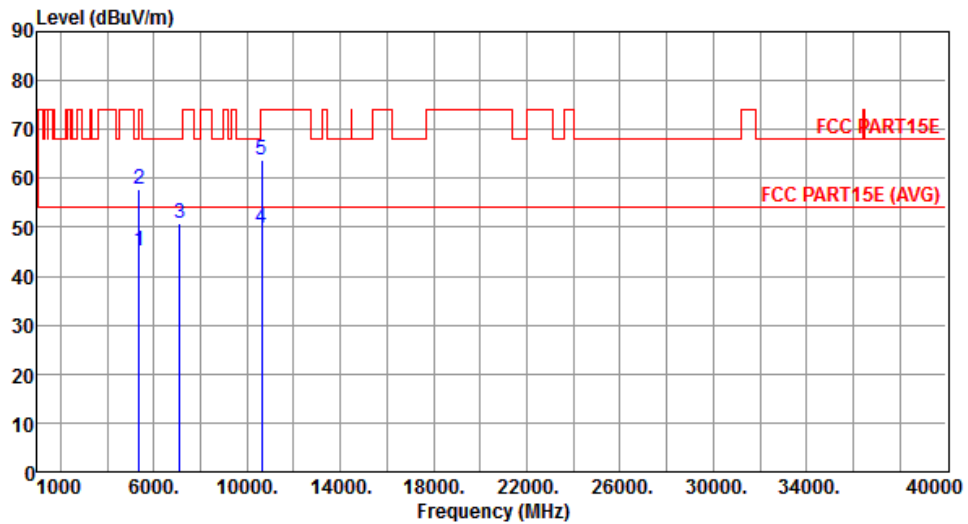
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.58	54.00	-8.42	38.55	7.03	Average	---	---
2	5350.00	57.45	74.00	-16.55	50.42	7.03	Peak	---	---
3	7066.66	50.09	68.20	-18.11	39.69	10.40	Peak	---	---
4	10600.00	49.21	54.00	-4.79	32.42	16.79	Average	---	---
5	10600.00	63.13	74.00	-10.87	46.34	16.79	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal	Test Configuration	1



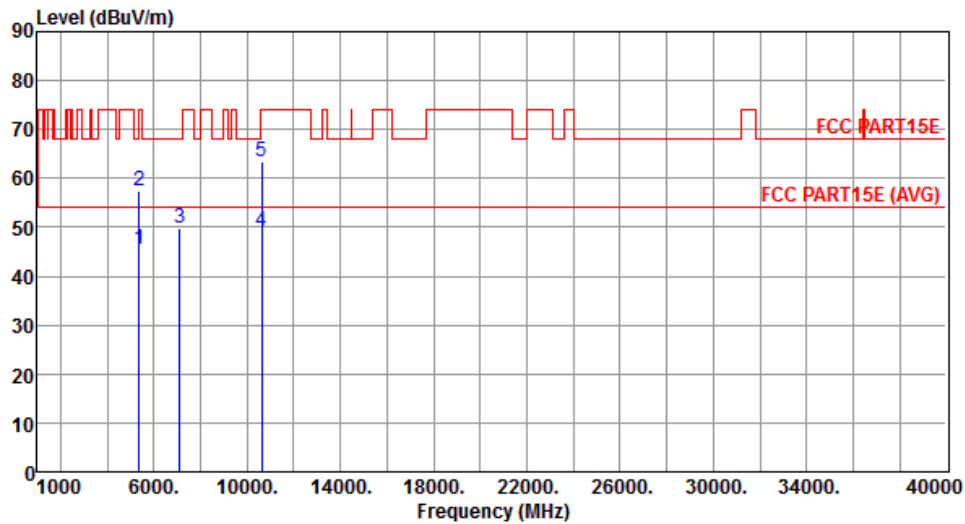
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.17	54.00	-8.83	38.14	7.03	Average	---	---
2	5350.00	57.68	74.00	-16.32	50.65	7.03	Peak	---	---
3	7093.33	50.81	68.20	-17.39	40.34	10.47	Peak	---	---
4	10640.00	49.92	54.00	-4.08	33.10	16.82	Average	---	---
5	10640.00	63.77	74.00	-10.23	46.95	16.82	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.37	54.00	-8.63	38.34	7.03	Average	---	---
2	5350.00	57.61	74.00	-16.39	50.58	7.03	Peak	---	---
3	7093.33	49.87	68.20	-18.33	39.40	10.47	Peak	---	---
4	10640.00	49.04	54.00	-4.96	32.22	16.82	Average	---	---
5	10640.00	63.36	74.00	-10.64	46.54	16.82	Peak	---	---

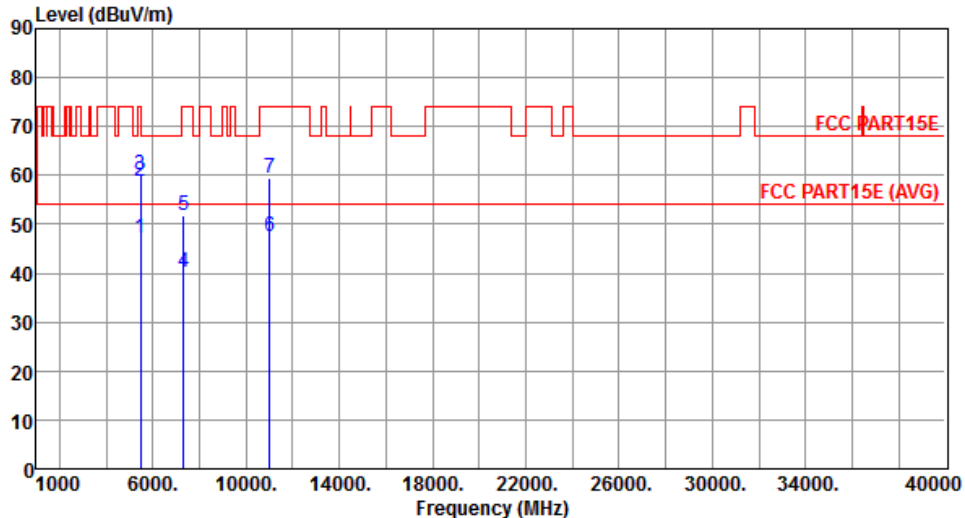
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



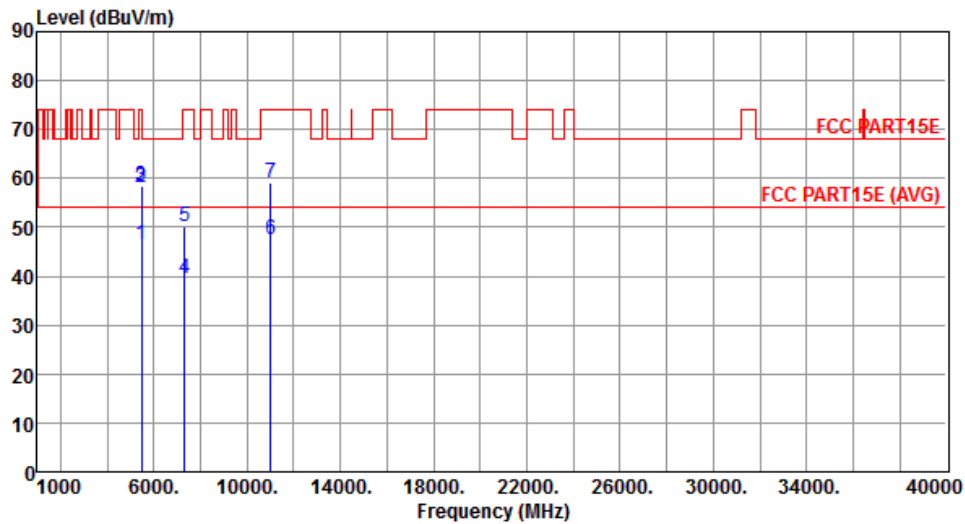
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Horizontal	Test Configuration	1

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.16	54.00	-6.84	40.02	7.14	Average	---	---
2	5460.00	58.69	74.00	-15.31	51.55	7.14	Peak	---	---
3	5470.00	60.11	68.20	-8.09	52.96	7.15	Peak	---	---
4	7333.33	40.25	54.00	-13.75	29.24	11.01	Average	---	---
5	7333.33	51.86	74.00	-22.14	40.85	11.01	Peak	---	---
6	11000.00	47.52	54.00	-6.48	30.41	17.11	Average	---	---
7	11000.00	59.55	74.00	-14.45	42.44	17.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical	Test Configuration	1



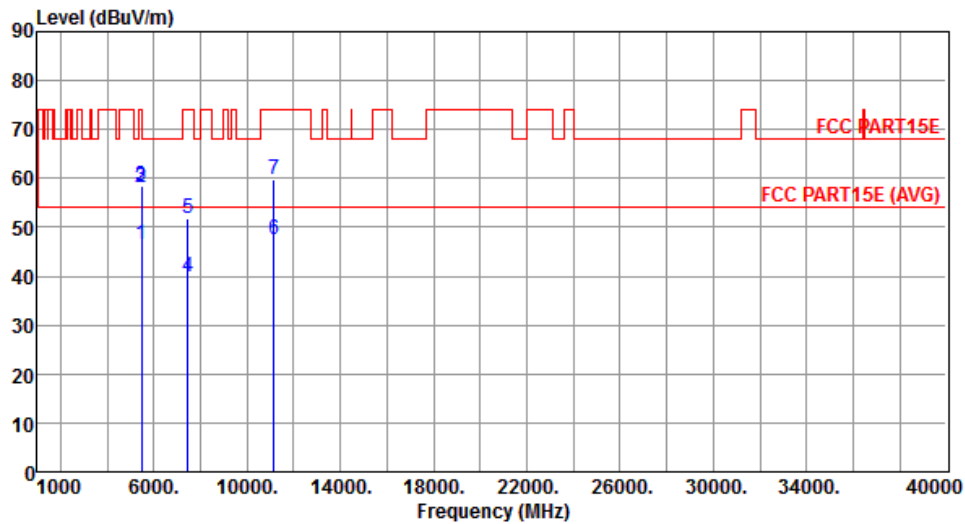
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.49	54.00	-7.51	39.35	7.14	Average	---	---
2	5460.00	58.16	74.00	-15.84	51.02	7.14	Peak	---	---
3	5470.00	58.49	68.20	-9.71	51.34	7.15	Peak	---	---
4	7333.33	39.54	54.00	-14.46	28.53	11.01	Average	---	---
5	7333.33	50.13	74.00	-23.87	39.12	11.01	Peak	---	---
6	11000.00	47.38	54.00	-6.62	30.27	17.11	Average	---	---
7	11000.00	59.17	74.00	-14.83	42.06	17.11	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Horizontal	Test Configuration	1



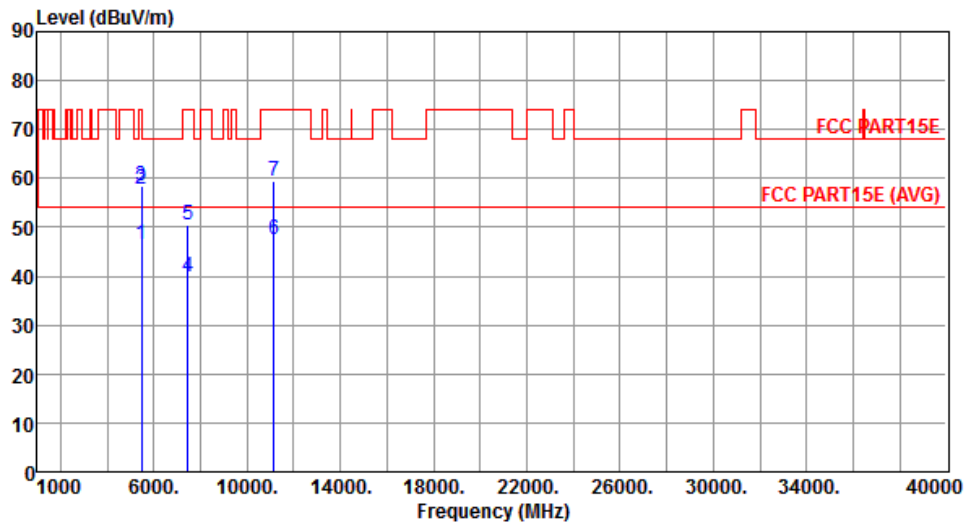
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.34	54.00	-7.66	39.20	7.14	Average	---	---
2	5460.00	58.12	74.00	-15.88	50.98	7.14	Peak	---	---
3	5470.00	58.60	68.20	-9.60	51.45	7.15	Peak	---	---
4	7440.00	39.95	54.00	-14.05	28.68	11.27	Average	---	---
5	7440.00	51.71	74.00	-22.29	40.44	11.27	Peak	---	---
6	11160.00	47.54	54.00	-6.46	30.37	17.17	Average	---	---
7	11160.00	59.62	74.00	-14.38	42.45	17.17	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Vertical	Test Configuration	1



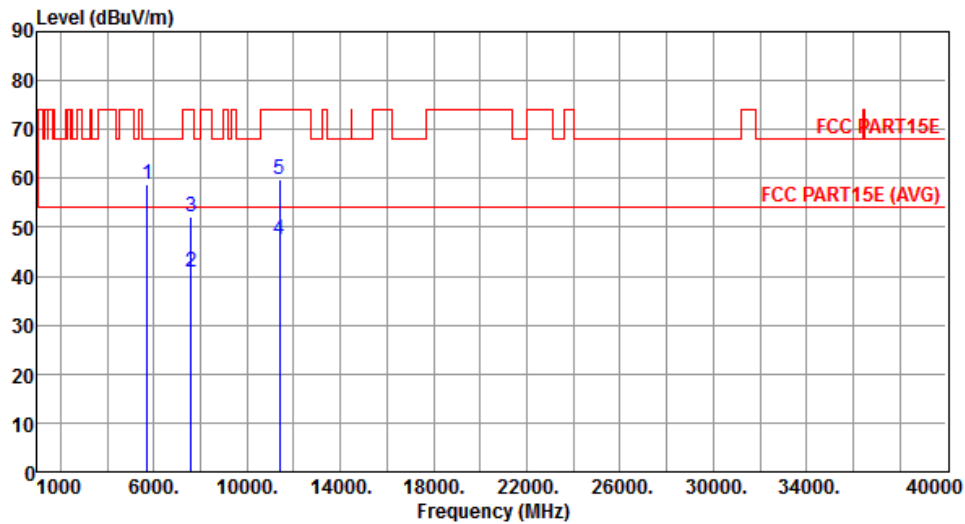
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.52	54.00	-7.48	39.38	7.14	Average	---	---
2	5460.00	57.82	74.00	-16.18	50.68	7.14	Peak	---	---
3	5470.00	58.36	68.20	-9.84	51.21	7.15	Peak	---	---
4	7440.00	39.85	54.00	-14.15	28.58	11.27	Average	---	---
5	7440.00	50.41	74.00	-23.59	39.14	11.27	Peak	---	---
6	11160.00	47.51	54.00	-6.49	30.34	17.17	Average	---	---
7	11160.00	59.37	74.00	-14.63	42.20	17.17	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal	Test Configuration	1



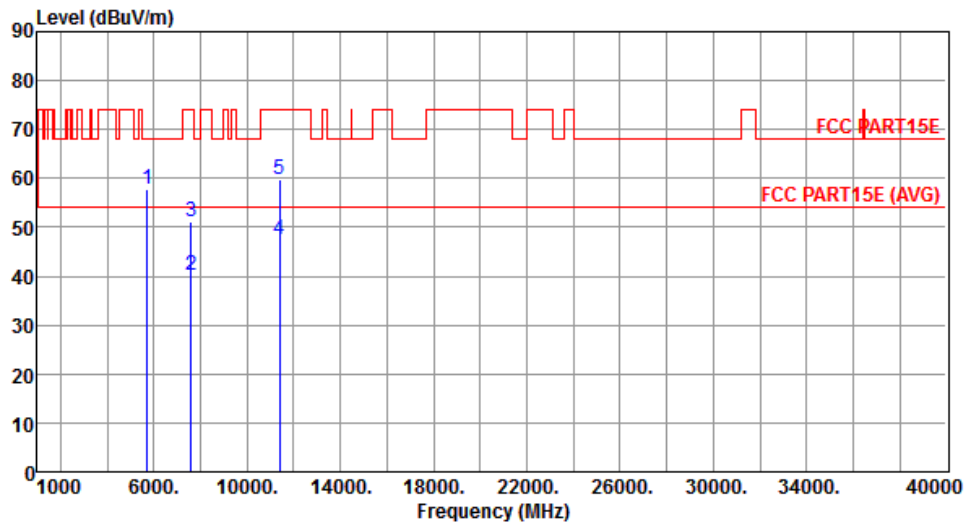
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	58.74	68.20	-9.46	51.17	7.57	Peak	---	---
2	7600.00	40.88	54.00	-13.12	29.21	11.67	Average	---	---
3	7600.00	52.05	74.00	-21.95	40.38	11.67	Peak	---	---
4	11400.00	47.58	54.00	-6.42	30.34	17.24	Average	---	---
5	11400.00	59.92	74.00	-14.08	42.68	17.24	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	57.81	68.20	-10.39	50.24	7.57	Peak	---	---
2	7600.00	40.33	54.00	-13.67	28.66	11.67	Average	---	---
3	7600.00	51.12	74.00	-22.88	39.45	11.67	Peak	---	---
4	11400.00	47.37	54.00	-6.63	30.13	17.24	Average	---	---
5	11400.00	59.79	74.00	-14.21	42.55	17.24	Peak	---	---

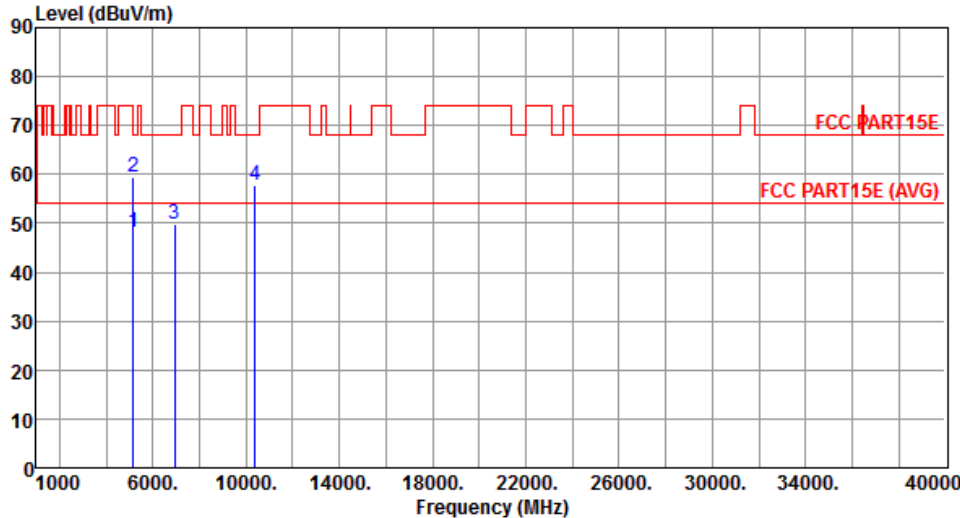
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

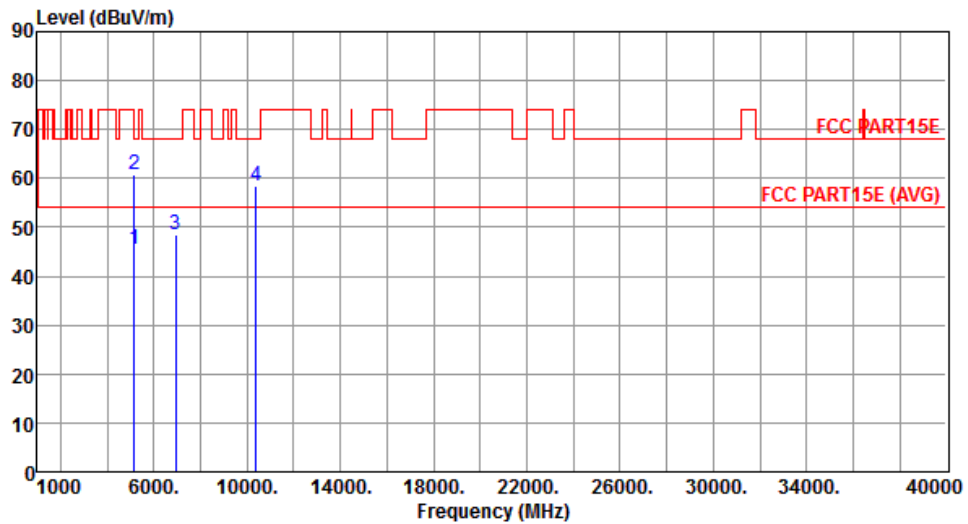
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal	Test Configuration	1

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.18	54.00	-5.82	41.60	6.58	Average	---	---
2	5150.00	59.36	74.00	-14.64	52.78	6.58	Peak	---	---
3	6920.00	49.94	68.20	-18.26	39.84	10.10	Peak	---	---
4	10380.00	57.75	68.20	-10.45	41.31	16.44	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.42	54.00	-8.58	38.84	6.58	Average	---	---
2	5150.00	60.66	74.00	-13.34	54.08	6.58	Peak	---	---
3	6920.00	48.47	68.20	-19.73	38.37	10.10	Peak	---	---
4	10380.00	58.42	68.20	-9.78	41.98	16.44	Peak	---	---

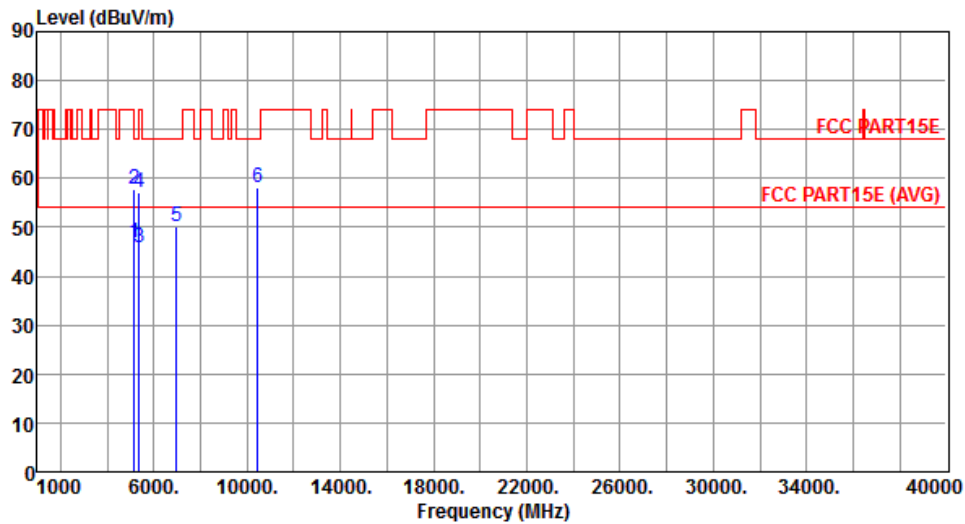
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal	Test Configuration	1



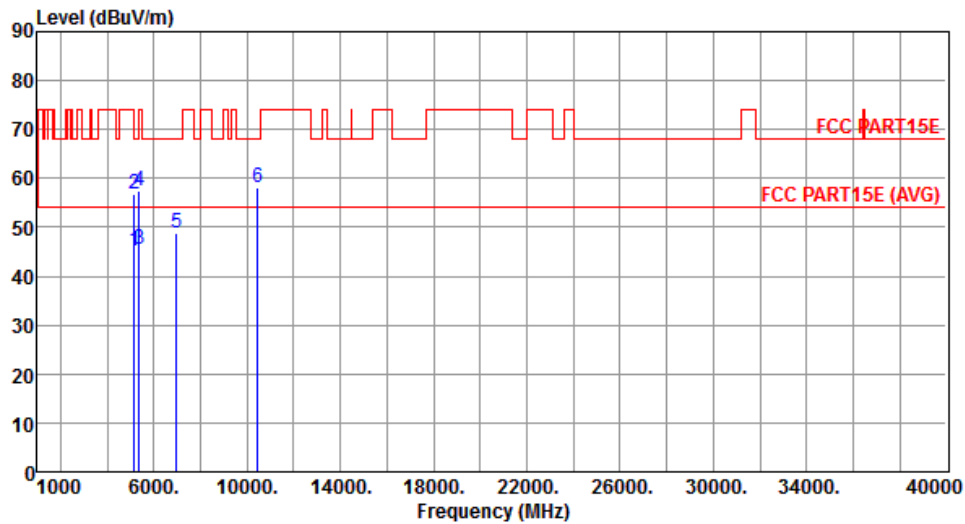
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.80	54.00	-7.20	40.22	6.58	Average	---	---
2	5150.00	57.72	74.00	-16.28	51.14	6.58	Peak	---	---
3	5350.00	45.68	54.00	-8.32	38.65	7.03	Average	---	---
4	5350.00	57.15	74.00	-16.85	50.12	7.03	Peak	---	---
5	6973.33	50.03	68.20	-18.17	39.83	10.20	Peak	---	---
6	10460.00	58.22	68.20	-9.98	41.59	16.63	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical	Test Configuration	1



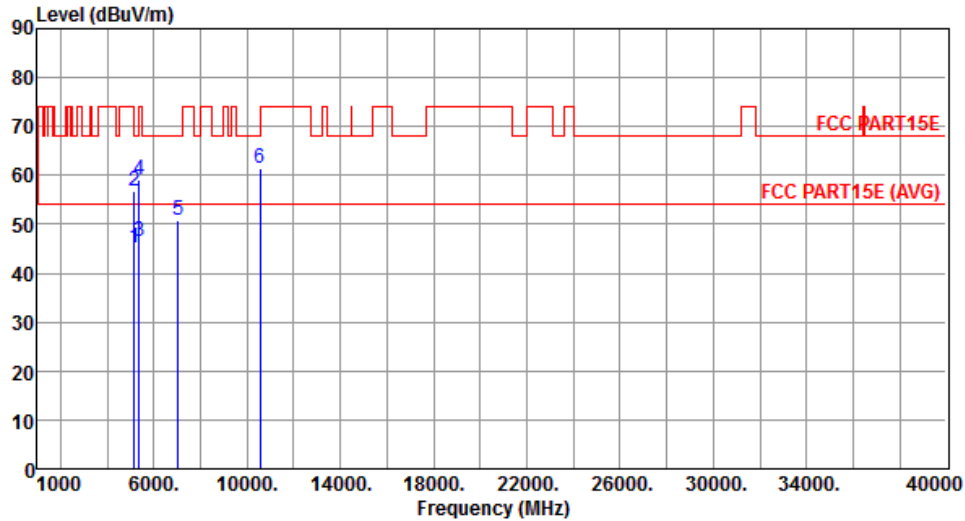
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.15	54.00	-8.85	38.57	6.58	Average	---	---
2	5150.00	56.83	74.00	-17.17	50.25	6.58	Peak	---	---
3	5350.00	45.45	54.00	-8.55	38.42	7.03	Average	---	---
4	5350.00	57.34	74.00	-16.66	50.31	7.03	Peak	---	---
5	6973.33	48.73	68.20	-19.47	38.53	10.20	Peak	---	---
6	10460.00	58.10	68.20	-10.10	41.47	16.63	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal	Test Configuration	1



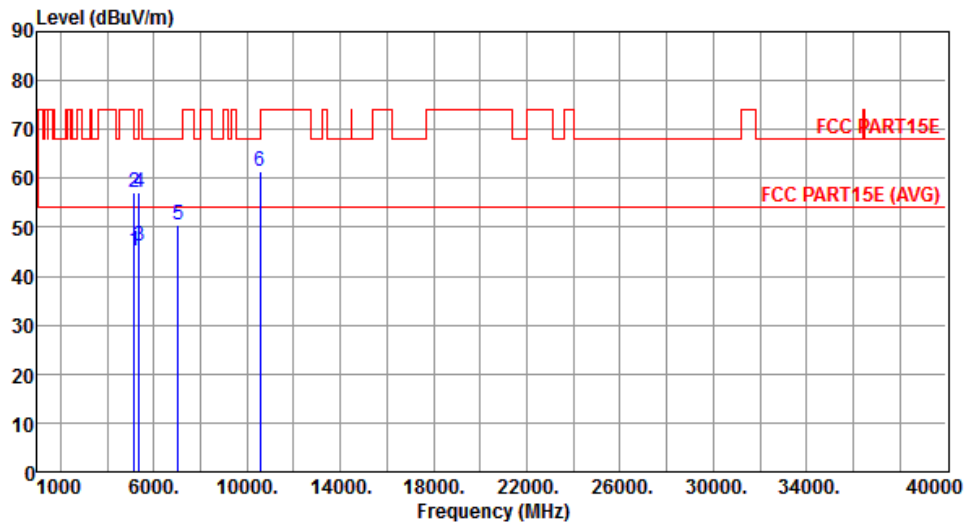
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.23	54.00	-8.77	38.65	6.58	Average	---	---
2	5150.00	56.87	74.00	-17.13	50.29	6.58	Peak	---	---
3	5350.00	46.34	54.00	-7.66	39.31	7.03	Average	---	---
4	5350.00	59.24	74.00	-14.76	52.21	7.03	Peak	---	---
5	7026.66	50.88	68.20	-17.32	40.56	10.32	Peak	---	---
6	10540.00	61.49	68.20	-6.71	44.75	16.74	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical	Test Configuration	1



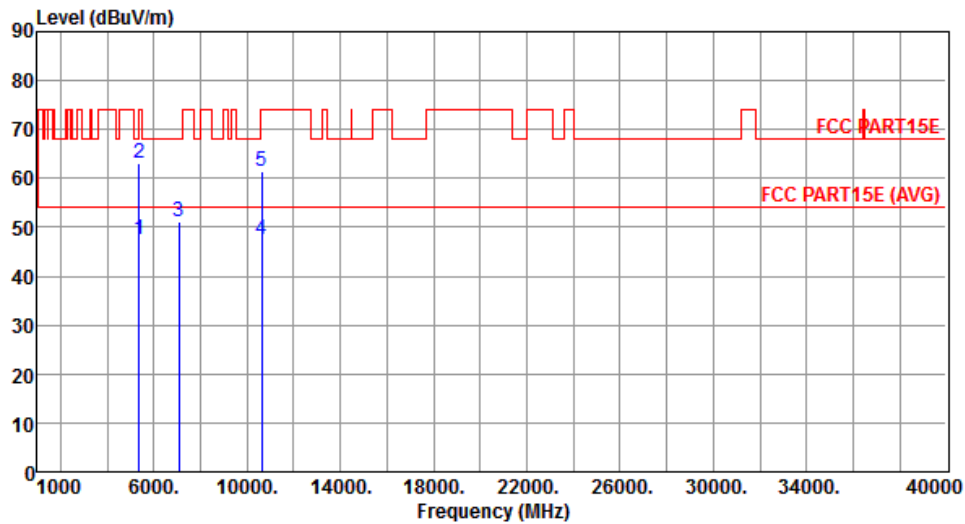
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.25	54.00	-8.75	38.67	6.58	Average	---	---
2	5150.00	57.01	74.00	-16.99	50.43	6.58	Peak	---	---
3	5350.00	46.15	54.00	-7.85	39.12	7.03	Average	---	---
4	5350.00	57.27	74.00	-16.73	50.24	7.03	Peak	---	---
5	7026.66	50.59	68.20	-17.61	40.27	10.32	Peak	---	---
6	10540.00	61.36	68.20	-6.84	44.62	16.74	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal	Test Configuration	1



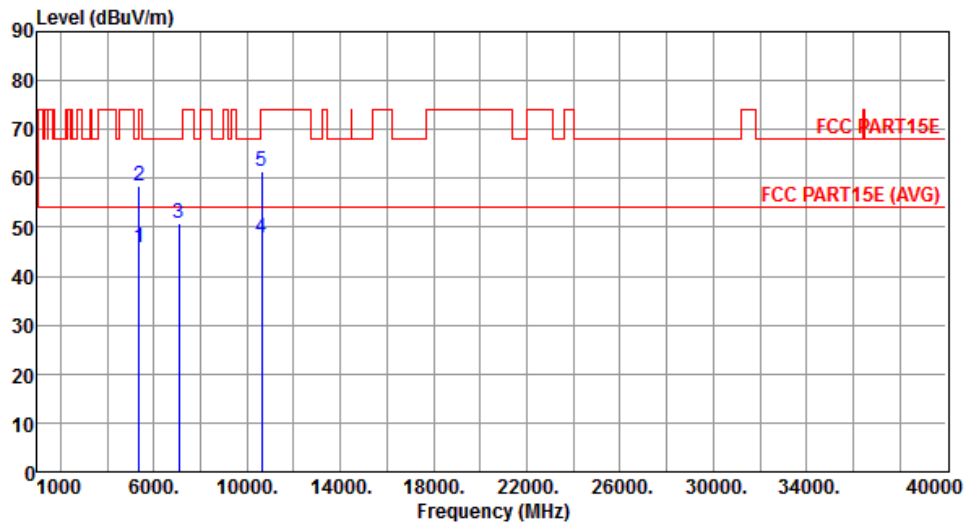
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.45	54.00	-6.55	40.42	7.03	Average	---	---
2	5350.00	63.21	74.00	-10.79	56.18	7.03	Peak	---	---
3	7080.00	51.23	68.20	-16.97	40.79	10.44	Peak	---	---
4	10620.00	47.52	54.00	-6.48	30.72	16.80	Average	---	---
5	10620.00	61.42	74.00	-12.58	44.62	16.80	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical	Test Configuration	1



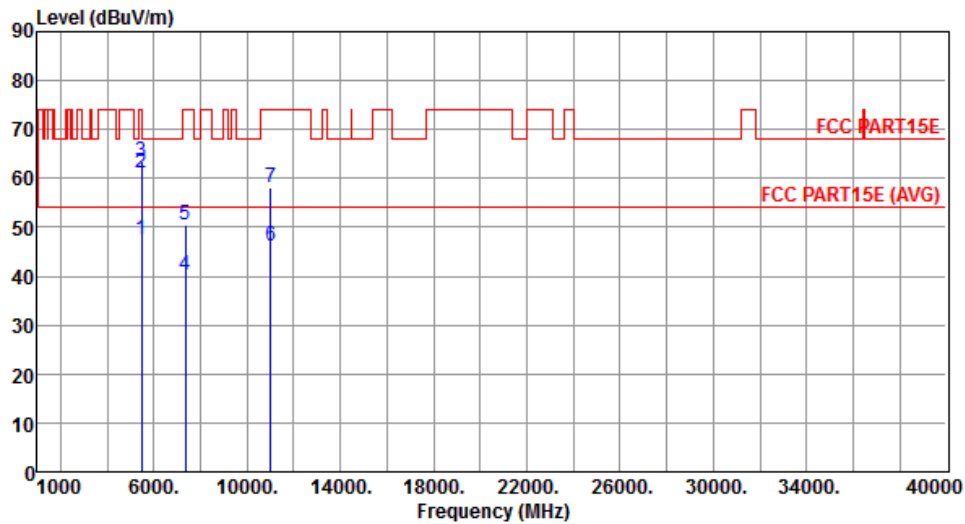
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.73	54.00	-8.27	38.70	7.03	Average	---	---
2	5350.00	58.30	74.00	-15.70	51.27	7.03	Peak	---	---
3	7080.00	50.65	68.20	-17.55	40.21	10.44	Peak	---	---
4	10620.00	47.79	54.00	-6.21	30.99	16.80	Average	---	---
5	10620.00	61.31	74.00	-12.69	44.51	16.80	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal	Test Configuration	1



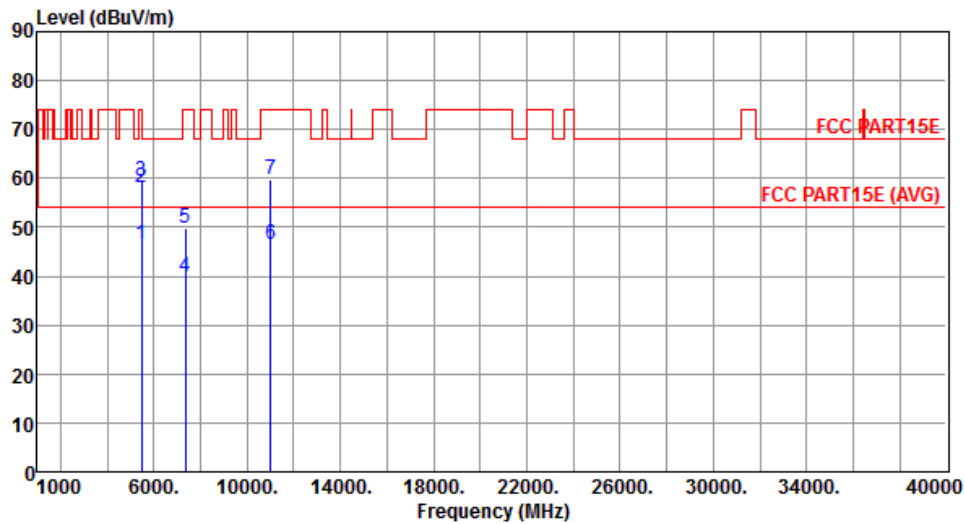
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.35	54.00	-6.65	40.21	7.14	Average	---	---
2	5460.00	60.96	74.00	-13.04	53.82	7.14	Peak	---	---
3	5470.00	63.35	68.20	-4.85	56.20	7.15	Peak	---	---
4	7346.66	40.17	54.00	-13.83	29.13	11.04	Average	---	---
5	7346.66	50.58	74.00	-23.42	39.54	11.04	Peak	---	---
6	11020.00	46.08	54.00	-7.92	28.96	17.12	Average	---	---
7	11020.00	58.15	74.00	-15.85	41.03	17.12	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.38	54.00	-7.62	39.24	7.14	Average	---	---
2	5460.00	58.20	74.00	-15.80	51.06	7.14	Peak	---	---
3	5470.00	59.38	68.20	-8.82	52.23	7.15	Peak	---	---
4	7346.66	39.74	54.00	-14.26	28.70	11.04	Average	---	---
5	7346.66	49.78	74.00	-24.22	38.74	11.04	Peak	---	---
6	11020.00	46.59	54.00	-7.41	29.47	17.12	Average	---	---
7	11020.00	59.76	74.00	-14.24	42.64	17.12	Peak	---	---

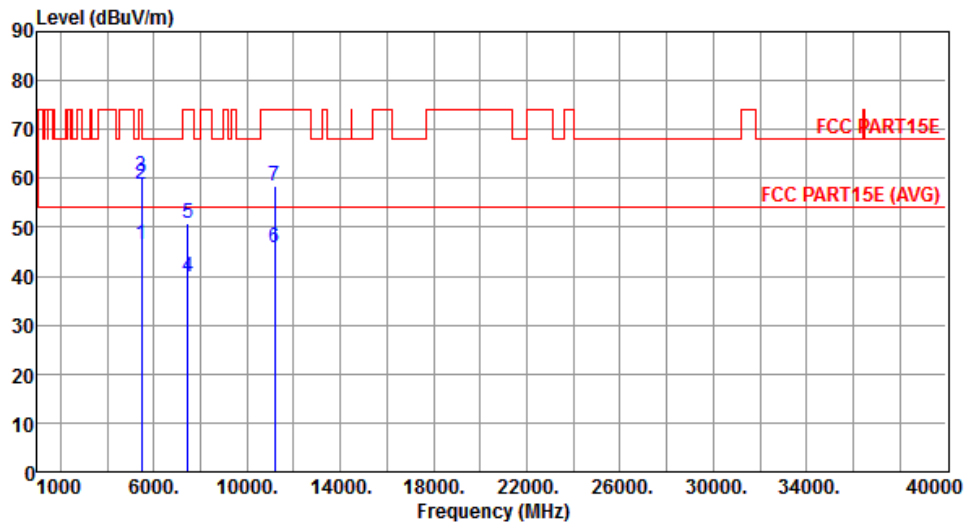
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Horizontal	Test Configuration	1



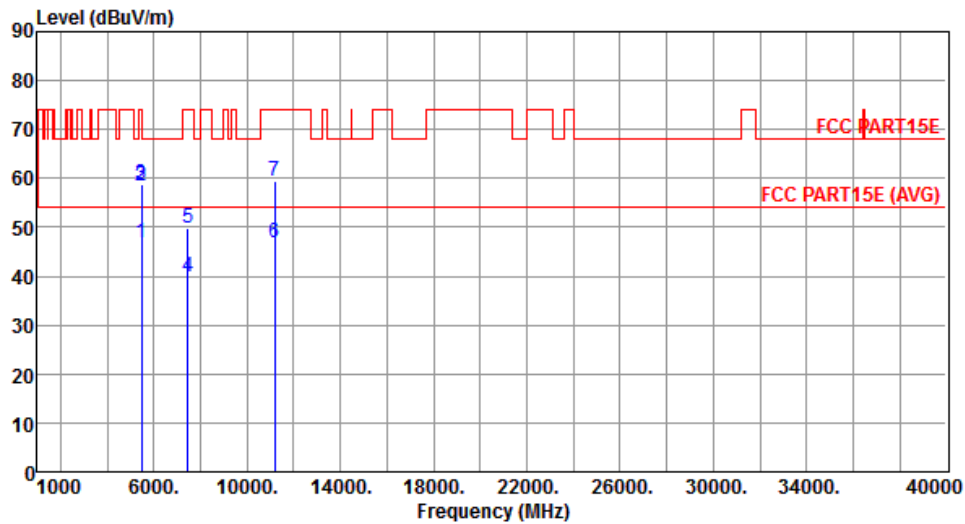
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.34	54.00	-7.66	39.20	7.14	Average	---	---
2	5460.00	58.82	74.00	-15.18	51.68	7.14	Peak	---	---
3	5470.00	60.49	68.20	-7.71	53.34	7.15	Peak	---	---
4	7453.33	40.00	54.00	-14.00	28.68	11.32	Average	---	---
5	7453.33	50.73	74.00	-23.27	39.41	11.32	Peak	---	---
6	11180.00	45.81	54.00	-8.19	28.65	17.16	Average	---	---
7	11180.00	58.55	74.00	-15.45	41.39	17.16	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Vertical	Test Configuration	1



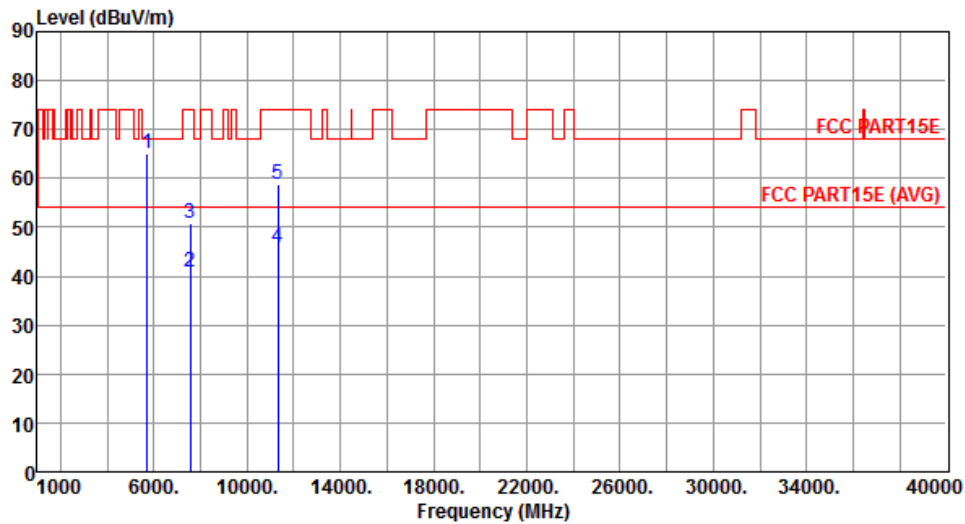
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.69	54.00	-7.31	39.55	7.14	Average	---	---
2	5460.00	58.34	74.00	-15.66	51.20	7.14	Peak	---	---
3	5470.00	58.77	68.20	-9.43	51.62	7.15	Peak	---	---
4	7453.33	39.87	54.00	-14.13	28.55	11.32	Average	---	---
5	7453.33	49.95	74.00	-24.05	38.63	11.32	Peak	---	---
6	11180.00	46.74	54.00	-7.26	29.58	17.16	Average	---	---
7	11180.00	59.51	74.00	-14.49	42.35	17.16	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal	Test Configuration	1



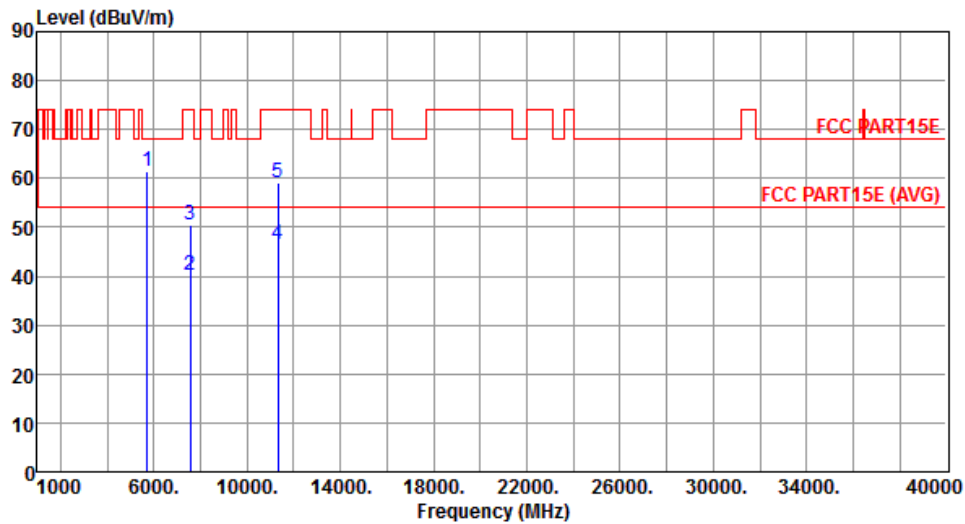
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	65.09	68.20	-3.11	57.52	7.57	Peak	---	---
2	7560.00	41.01	54.00	-12.99	29.42	11.59	Average	---	---
3	7560.00	50.97	74.00	-23.03	39.38	11.59	Peak	---	---
4	11340.00	45.76	54.00	-8.24	28.54	17.22	Average	---	---
5	11340.00	58.69	74.00	-15.31	41.47	17.22	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	61.57	68.20	-6.63	54.00	7.57	Peak	---	---
2	7560.00	40.21	54.00	-13.79	28.62	11.59	Average	---	---
3	7560.00	50.52	74.00	-23.48	38.93	11.59	Peak	---	---
4	11340.00	46.43	54.00	-7.57	29.21	17.22	Average	---	---
5	11340.00	59.21	74.00	-14.79	41.99	17.22	Peak	---	---

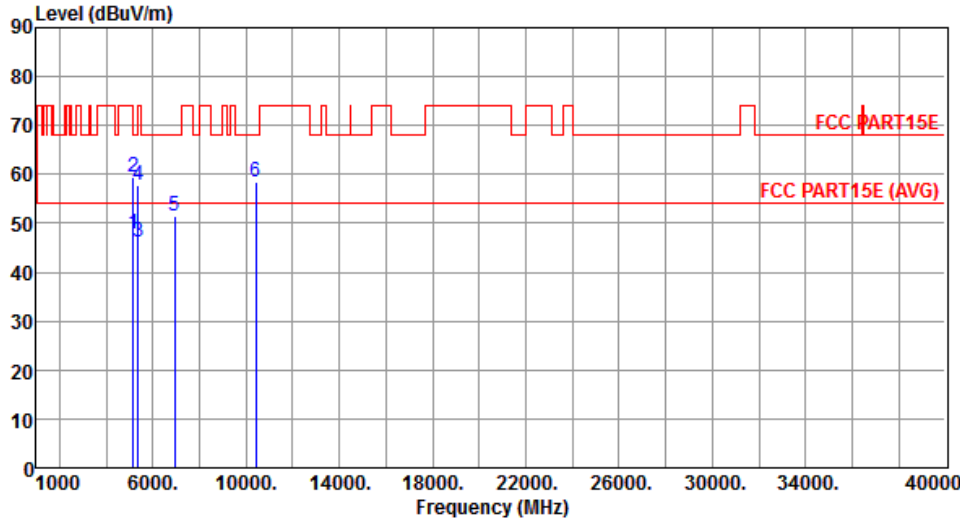
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

### 3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

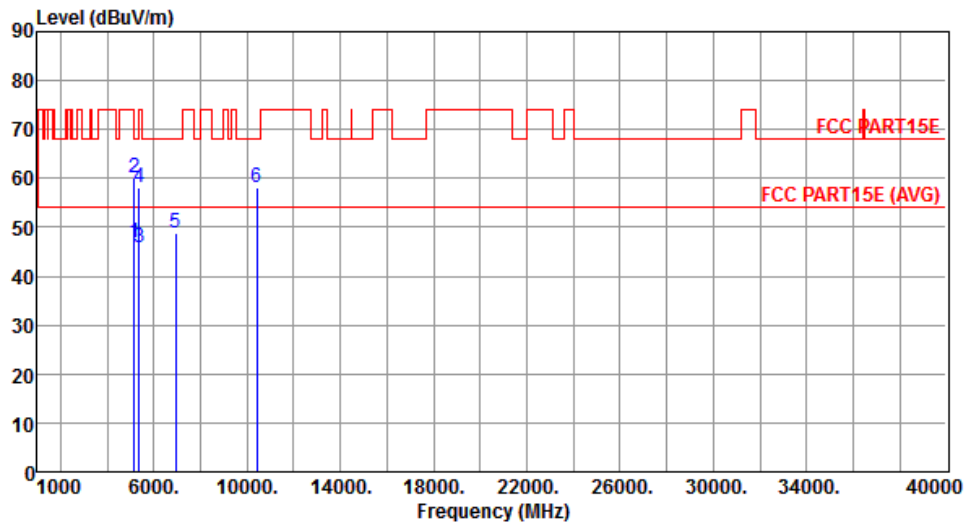
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal	Test Configuration	1

	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.77	54.00	-6.23	41.19	6.58	Average	---	---
2	5150.00	59.31	74.00	-14.69	52.73	6.58	Peak	---	---
3	5350.00	46.07	54.00	-7.93	39.04	7.03	Average	---	---
4	5350.00	57.72	74.00	-16.28	50.69	7.03	Peak	---	---
5	6946.66	51.35	68.20	-16.85	41.20	10.15	Peak	---	---
6	10420.00	58.49	68.20	-9.71	41.96	16.53	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical	Test Configuration	1



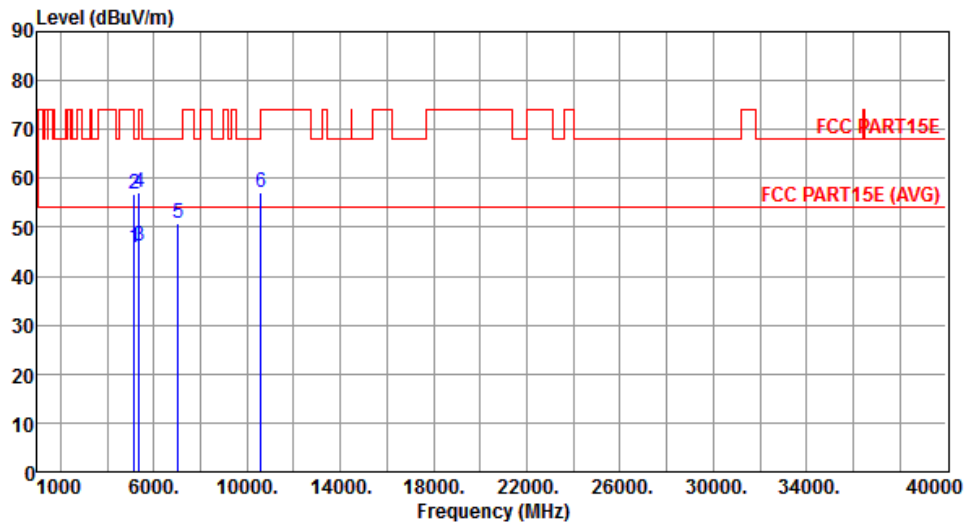
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.87	54.00	-7.13	40.29	6.58	Average	---	---
2	5150.00	60.04	74.00	-13.96	53.46	6.58	Peak	---	---
3	5350.00	45.87	54.00	-8.13	38.84	7.03	Average	---	---
4	5350.00	58.18	74.00	-15.82	51.15	7.03	Peak	---	---
5	6946.66	48.91	68.20	-19.29	38.76	10.15	Peak	---	---
6	10420.00	58.06	68.20	-10.14	41.53	16.53	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal	Test Configuration	1



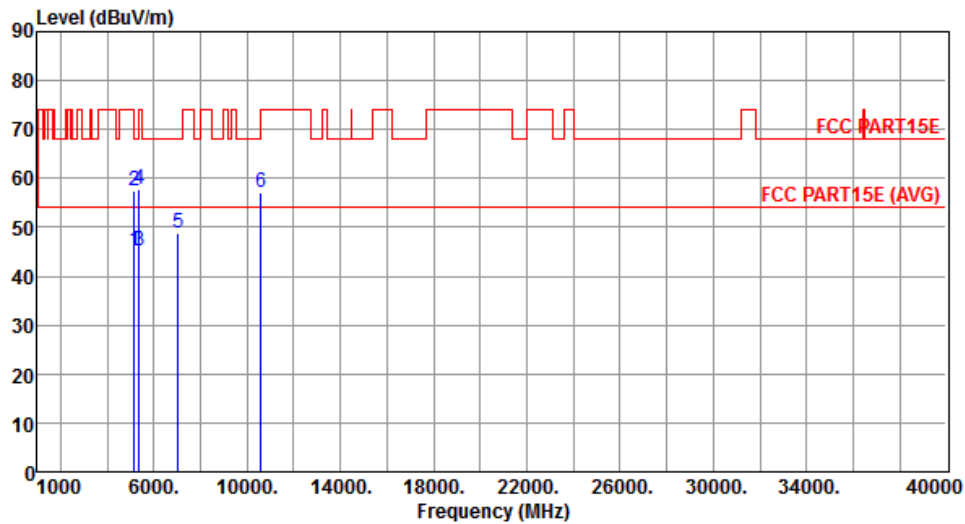
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.71	54.00	-8.29	39.13	6.58	Average	---	---
2	5150.00	56.87	74.00	-17.13	50.29	6.58	Peak	---	---
3	5350.00	46.02	54.00	-7.98	38.99	7.03	Average	---	---
4	5350.00	57.25	74.00	-16.75	50.22	7.03	Peak	---	---
5	7053.33	50.81	68.20	-17.39	40.43	10.38	Peak	---	---
6	10580.00	57.19	68.20	-11.01	40.42	16.77	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.21	54.00	-8.79	38.63	6.58	Average	---	---
2	5150.00	57.34	74.00	-16.66	50.76	6.58	Peak	---	---
3	5350.00	45.19	54.00	-8.81	38.16	7.03	Average	---	---
4	5350.00	57.74	74.00	-16.26	50.71	7.03	Peak	---	---
5	7053.33	48.89	68.20	-19.31	38.51	10.38	Peak	---	---
6	10580.00	57.10	68.20	-11.10	40.33	16.77	Peak	---	---

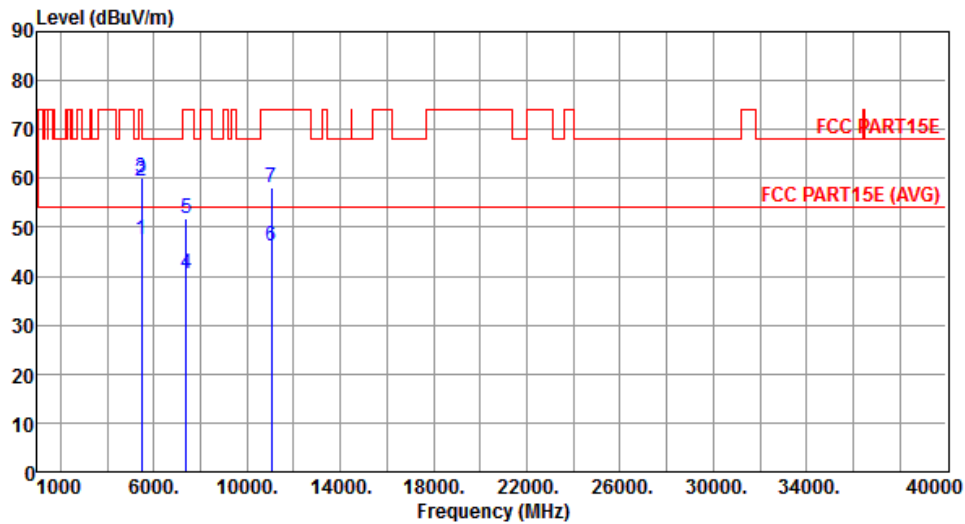
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal	Test Configuration	1



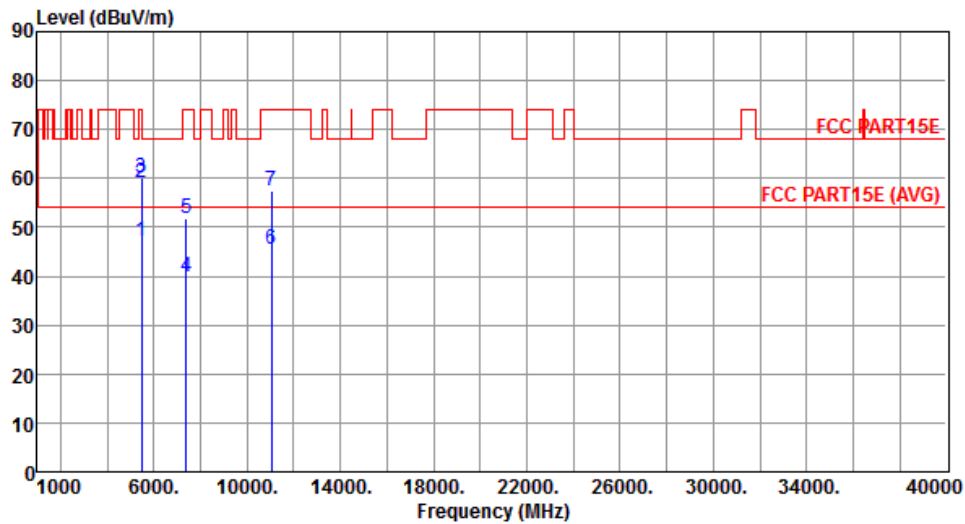
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.59	54.00	-6.41	40.45	7.14	Average	---	---
2	5460.00	59.50	74.00	-14.50	52.36	7.14	Peak	---	---
3	5470.00	60.11	68.20	-8.09	52.96	7.15	Peak	---	---
4	7373.33	40.55	54.00	-13.45	29.45	11.10	Average	---	---
5	7373.33	51.71	74.00	-22.29	40.61	11.10	Peak	---	---
6	11060.00	46.09	54.00	-7.91	28.96	17.13	Average	---	---
7	11060.00	58.09	74.00	-15.91	40.96	17.13	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical	Test Configuration	1



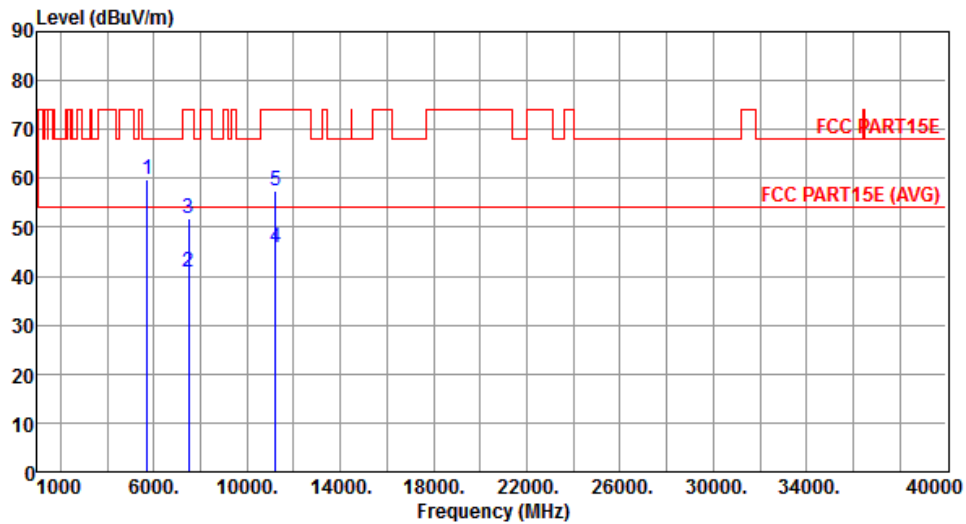
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.17	54.00	-6.83	40.03	7.14	Average	---	---
2	5460.00	59.26	74.00	-14.74	52.12	7.14	Peak	---	---
3	5470.00	60.00	68.20	-8.20	52.85	7.15	Peak	---	---
4	7373.33	39.94	54.00	-14.06	28.84	11.10	Average	---	---
5	7373.33	51.82	74.00	-22.18	40.72	11.10	Peak	---	---
6	11060.00	45.66	54.00	-8.34	28.53	17.13	Average	---	---
7	11060.00	57.44	74.00	-16.56	40.31	17.13	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal	Test Configuration	1



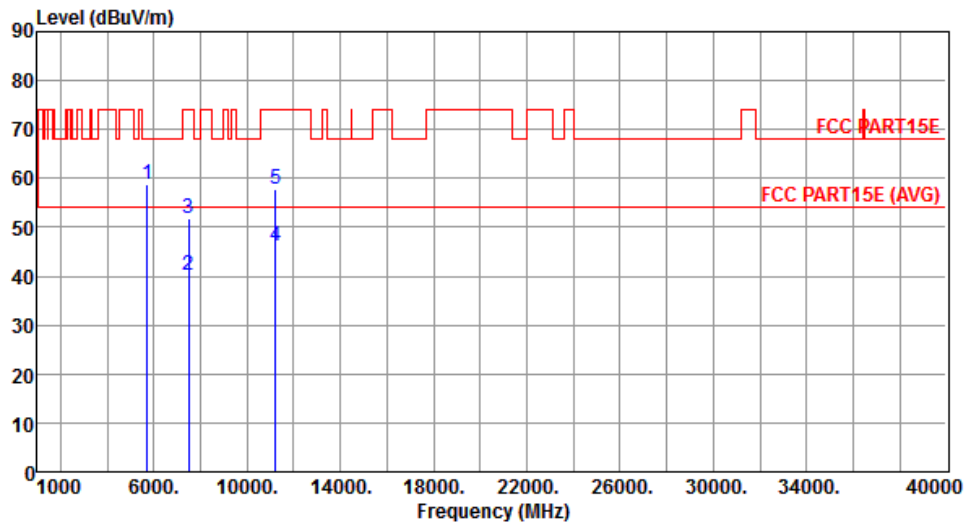
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	59.77	68.20	-8.43	52.20	7.57	Peak	---	---
2	7480.00	40.95	54.00	-13.05	29.55	11.40	Average	---	---
3	7480.00	51.96	74.00	-22.04	40.56	11.40	Peak	---	---
4	11220.00	45.83	54.00	-8.17	28.64	17.19	Average	---	---
5	11220.00	57.55	74.00	-16.45	40.36	17.19	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	58.90	68.20	-9.30	51.33	7.57	Peak	---	---
2	7480.00	40.15	54.00	-13.85	28.75	11.40	Average	---	---
3	7480.00	51.71	74.00	-22.29	40.31	11.40	Peak	---	---
4	11220.00	46.14	54.00	-7.86	28.95	17.19	Average	---	---
5	11220.00	57.63	74.00	-16.37	40.44	17.19	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

## 3.6 Frequency Stability

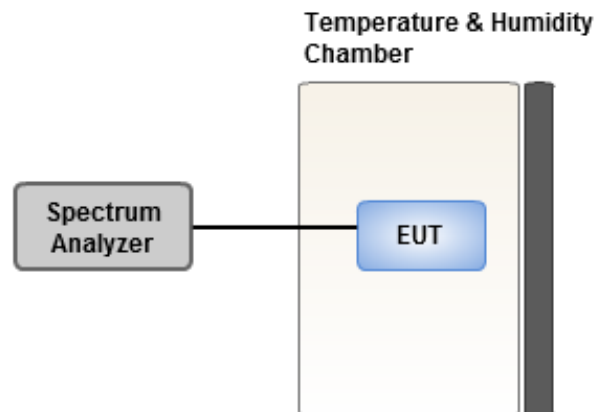
### 3.6.1 Limit of Frequency Stability

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.

### 3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under -30 to 55 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.

### 3.6.3 Test Setup



### 3.6.4 Test Result of Frequency Stability

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°C Vmax	5.10	5.70	5.02	5.22
T20°C Vmin	4.02	4.84	3.81	3.89
T55°C Vnom	3.57	3.46	3.50	3.87
T50°C Vnom	3.23	3.31	3.53	3.22
T40°C Vnom	2.85	3.10	2.39	3.14
T30°C Vnom	2.37	2.11	2.60	2.73
T20°C Vnom	2.21	2.46	2.63	2.44
T10°C Vnom	2.95	2.98	2.81	3.34
T0°C Vnom	1.72	1.80	2.14	1.82
T-10°C Vnom	0.79	1.59	1.06	1.08
T-20°C Vnom	0.43	0.61	1.09	0.61
T-30°C Vnom	-0.11	0.34	-0.47	0.15
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 55		Tmin [°C]: -30

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

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Hsien 333, Taiwan, R.O.C.

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