

FCC Test Report

FCC ID : TVE-130513
Equipment : 3T3R PCIeModule- 5GHz
Model No. : WMDQ-174AC
Brand Name : Fortinet, Inc.
Applicant : Fortinet Inc.
Address : 899 Kifer Road Sunnyvale, CA 94086, USA
Standard : 47 CFR FCC Part 15.407
Received Date : Mar. 10, 2015
Tested Date : Mar. 16 ~ Apr. 09, 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
FR531001	Rev. 01	Initial issue	May 20, 2015
FR531001	Rev. 02	Modify ANSI C63.10 version	May 27, 2015

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.150MHz 57.14 (Margin -8.86dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 350.10MHz 44.50 (Margin -1.50dB) – QP [dBuV/m at 3m]: 5150.00MHz 52.50 (Margin -1.50dB) - AV	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: 16.72 5725-5850MHz: 25.66	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 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 _{TX})	Data Rate / MCS
5150-5250	a	5180-5240	36-48 [4]	3	6-54 Mbps
5150-5250	n (HT20)	5180-5240	36-48 [4]	3	MCS 0-23
5150-5250	n (HT40)	5190-5230	38-46 [2]	3	MCS 0-23
5150-5250	ac (VHT20)	5180-5240	36-48 [4]	3	MCS 0-9
5150-5250	ac (VHT40)	5190-5230	38-46 [2]	3	MCS 0-9
5150-5250	ac (VHT80)	5210	42 [1]	3	MCS 0-9

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.

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5725-5850	a	5745-5825	149-165 [5]	3	6-54 Mbps
5725-5850	n (HT20)	5745-5825	149-165 [5]	3	MCS 0-23
5725-5850	n (HT40)	5755-5795	151-159 [2]	3	MCS 0-23
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	3	MCS 0-9
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	3	MCS 0-9
5725-5850	ac (VHT80)	5775	155 [1]	3	MCS 0-9

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.

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequency / Gain (dBi)	
				5150~5250MHz	5725~5850MHz
1	AK51010200	Dipole	R-SMA	4.78	5.67
2	LG19	PIFA	IPEX	3.46	4.34
3	FPC_ANT (Cable: 95mm)	PIFA	IPEX	2.78	3.32
4	FPC_ANT (Cable: 355mm)	PIFA	IPEX	2.21	0.91
5	FPC_ANT (Cable: 150mm)	PIFA	IPEX	2.42	3.11

Note:

- 1) There are six different cable lengths for Dipole antenna. They should be 100mm, 130mm, 180mm, 205mm, 230mm and 265mm. The shortest cable length 100mm and the longest cable length 265mm was chosen for final testing.
- 2) PIFA antenna with highest gain (model LG19) was chosen for final testing.

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
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1.1.4 Accessories

N/A

1.1.5 Channel List

For Frequency band 5150-5250 MHz			
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	VHT80	
48	5240	42	5210

For Frequency band 5725~5850 MHz			
802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
149	5745	151	5755
153	5765	159	5795
157	5785	VHT80	
161	5805	155	5775
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	ART2-GUI, version 2.3		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	98.28%	0.08
	VHT20	98.16%	0.08
	VHT40	94.37%	0.25
	VHT80	87.47%	0.58

1.1.7 Power Setting

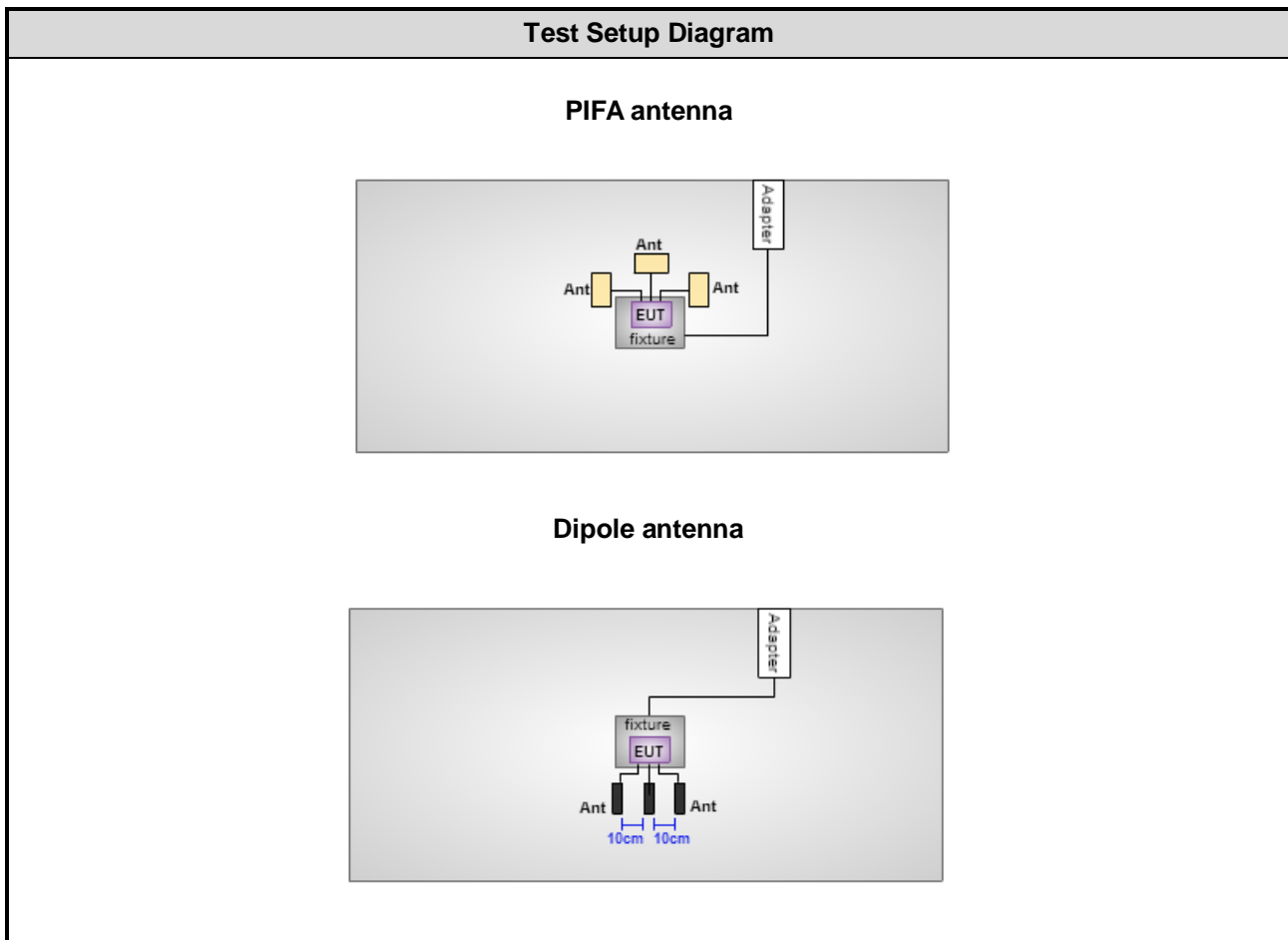
For Frequency band 5150-5250 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5180	8.5
11a	5200	8.5
11a	5240	8.5
HT20	5180	8.5
HT20	5200	8.5
HT20	5240	7.5
HT40	5190	12
HT40	5230	11
VHT20	5180	8.5
VHT20	5200	8.5
VHT20	5240	7.5
VHT40	5190	12
VHT40	5230	11
VHT80	5210	11

For Frequency band 5725~5850 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5745	18
11a	5785	20.5
11a	5825	20.5
HT20	5745	18
HT20	5785	20.5
HT20	5825	20.5
HT40	5755	14.00
HT40	5795	20.00
VHT20	5745	18
VHT20	5785	20.5
VHT20	5825	20.5
VHT40	5755	14.00
VHT40	5795	20.00
VHT80	5775	10.50

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Fixture	---	WAPQ-230ACN	---	---
2	Fixture adapter	CWT	SAG024F 4 US	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
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.

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 09, 2014	Dec. 08, 2015
Receiver	R&S	ESR3	101658	Nov. 10, 2014	Nov. 09, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Sep. 05, 2014	Sep. 04, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2014	Dec. 10, 2015
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	Burgeon	BPA-530	SN:100219	Sep. 09, 2014	Sep. 08, 2015
Preamplifier	Agilent	83017A	MY39501308	Oct. 09, 2014	Oct. 08, 2015
Preamplifier	EMC	EMC184045B	980192	Aug. 26, 2014	Aug. 25, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 15, 2014	Dec. 14, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 15, 2014	Dec. 14, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 15, 2014	Dec. 14, 2015
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 15, 2014	Dec. 14, 2015
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 15, 2014	Dec. 14, 2015
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
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.

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 C63.10-2009

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

Note: FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014

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 ≤ 1 GHz	± 3.72 dB
Radiated emission > 1 GHz	± 5.65 dB
Time	$\pm 0.1\%$
Temperature	± 0.6 °C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	17°C / 70%	Kevin Ma
Radiated Emissions	03CH01-WS	19-23°C / 60-67%	Aska Huang
RF Conducted	TH01-WS	21°C / 63%	Felix Sung

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	VHT40	5190	MCS 0	1, 2
Radiated Emissions ≤1GHz	VHT40	5190	MCS 0	1, 2
RF Output Power	11a	5180 / 5200 / 5240	6 Mbps	1
	HT20	5180 / 5200 / 5240	MCS 0	
	HT40	5190 / 5230	MCS 0	
	VHT20	5180 / 5200 / 5240	MCS 0	
	VHT40	5190 / 5230	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	VHT80	5210	MCS 0	1
	11a	5180 / 5200 / 5240	6 Mbps	
	VHT20	5180 / 5200 / 5240	MCS 0	
Frequency Stability	VHT40	5190 / 5230	MCS 0	1
	VHT80	5210	MCS 0	
Frequency Stability	Un-modulation	5200	---	1

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The worst planes of each antenna and test configurations are listed as follows:

1) Test configuration 1: Dipole antenna, **Y-plane**.

a. Two antenna cable lengths, **100mm** and **265mm** were for final radiated emission below 1GHz test.

b. The **100mm** cable for final radiated emission above 1GHz test.

2) Test configuration 2: PIFA antenna, **Y-plane**.

For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11a	5785	MCS 0	1, 2
Radiated Emissions ≤ 1 GHz	11a	5785	MCS 0	1, 2
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	1
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions > 1 GHz	11a	5745 / 5785 / 5825	6 Mbps	1
Emission Bandwidth	VHT20	5745 / 5785 / 5825	MCS 0	
6dB bandwidth	VHT40	5755 / 5795	MCS 0	
Peak Power Spectral Density	VHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	1
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The worst planes of each antenna and test configurations are listed as follows:				
1) Test configuration 1: Dipole antenna, Y-plane .				
a. Two antenna cable lengths, 100mm and 265mm were for final radiated emission below 1GHz test.				
b. The 100mm cable has the worst emission value for final radiated emission above 1GHz test.				
2) Test configuration 2: PIFA antenna, Y-plane .				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

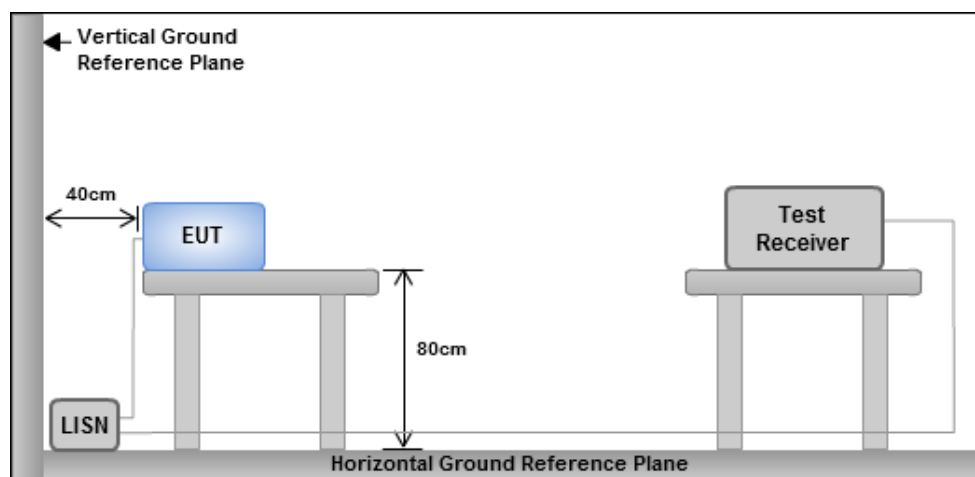
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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 Ω 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.

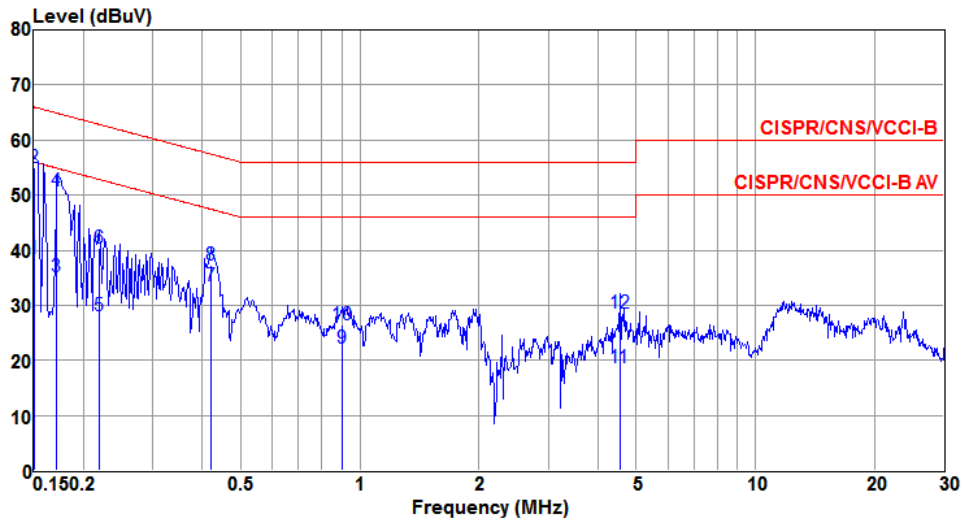
3.1.3 Test Setup



- 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

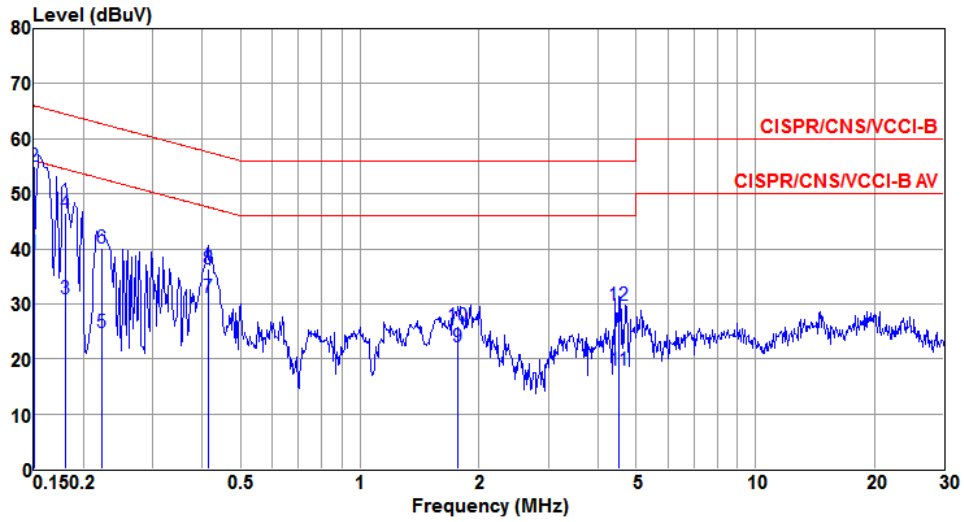
Modulation	VHT40	Test Freq. (MHz)	5190
Power Phase	Line	Test Configuration	1



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	38.42	56.00	-17.58	37.42	0.92	0.08	Average
2*	0.150	55.06	66.00	-10.94	54.06	0.92	0.08	QP
3	0.171	35.28	54.90	-19.62	34.59	0.61	0.08	Average
4	0.171	50.69	64.90	-14.21	50.00	0.61	0.08	QP
5	0.220	28.01	52.83	-24.82	27.68	0.24	0.09	Average
6	0.220	40.35	62.83	-22.48	40.02	0.24	0.09	QP
7	0.421	33.48	47.42	-13.94	33.19	0.18	0.11	Average
8	0.421	37.28	57.42	-20.14	36.99	0.18	0.11	QP
9	0.904	22.15	46.00	-23.85	21.90	0.10	0.15	Average
10	0.904	26.46	56.00	-29.54	26.21	0.10	0.15	QP
11	4.549	18.57	46.00	-27.43	17.95	0.31	0.31	Average
12	4.549	28.64	56.00	-27.36	28.02	0.31	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).

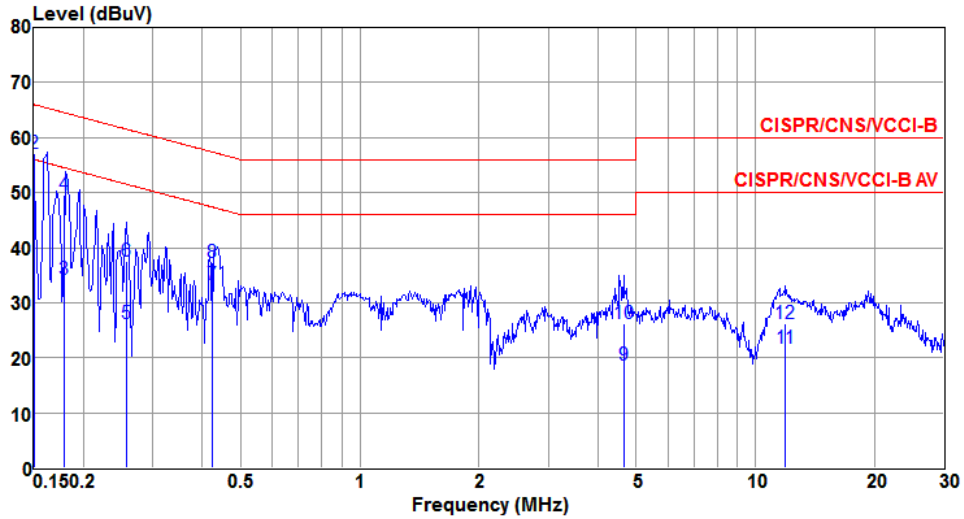
Modulation	VHT40	Test Freq. (MHz)	5190
Power Phase	Neutral	Test Configuration	1



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.150	39.23	56.00	-16.77	38.30	0.85	0.08	Average
2*	0.150	54.93	66.00	-11.07	54.00	0.85	0.08	QP
3	0.181	30.89	54.46	-23.57	30.35	0.45	0.09	Average
4	0.181	46.55	64.46	-17.91	46.01	0.45	0.09	QP
5	0.223	24.90	52.70	-27.80	24.59	0.22	0.09	Average
6	0.223	40.04	62.70	-22.66	39.73	0.22	0.09	QP
7	0.413	31.19	47.59	-16.40	30.95	0.13	0.11	Average
8	0.413	36.31	57.59	-21.28	36.07	0.13	0.11	QP
9	1.762	22.10	46.00	-23.90	21.64	0.23	0.23	Average
10	1.762	26.00	56.00	-30.00	25.54	0.23	0.23	QP
11	4.525	17.88	46.00	-28.12	16.86	0.71	0.31	Average
12	4.525	29.79	56.00	-26.21	28.77	0.71	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).

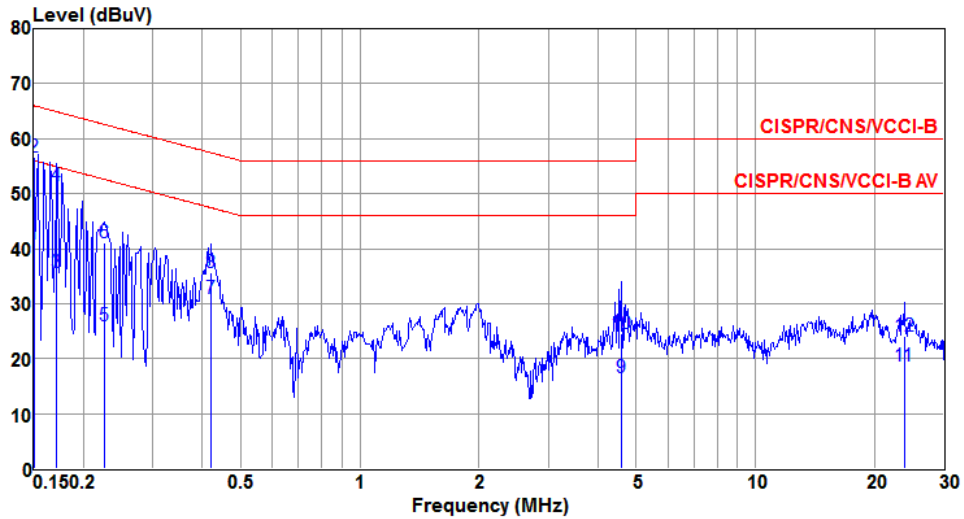
Modulation	VHT40	Test Freq. (MHz)	5190
Power Phase	Line	Test Configuration	2



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	40.95	56.00	-15.05	39.95	0.92	0.08	Average
2*	0.150	57.14	66.00	-8.86	56.14	0.92	0.08	QP
3	0.179	34.16	54.52	-20.36	33.57	0.50	0.09	Average
4	0.179	49.46	64.52	-15.06	48.87	0.50	0.09	QP
5	0.256	26.14	51.56	-25.42	25.82	0.22	0.10	Average
6	0.256	37.61	61.56	-23.95	37.29	0.22	0.10	QP
7	0.424	33.26	47.38	-14.12	32.98	0.17	0.11	Average
8	0.424	37.32	57.38	-20.06	37.04	0.17	0.11	QP
9	4.647	18.61	46.00	-27.39	17.97	0.33	0.31	Average
10	4.647	26.28	56.00	-29.72	25.64	0.33	0.31	QP
11	11.933	21.76	50.00	-28.24	20.81	0.69	0.26	Average
12	11.933	26.30	60.00	-33.70	25.35	0.69	0.26	QP

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

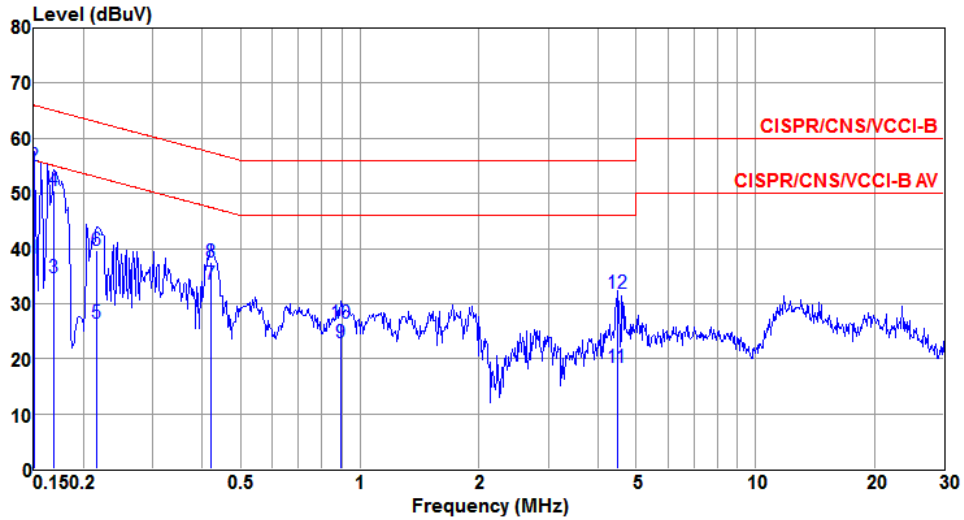
Modulation	VHT40	Test Freq. (MHz)	5190
Power Phase	Neutral	Test Configuration	2



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	40.76	56.00	-15.24	39.83	0.85	0.08	Average
2*	0.150	56.68	66.00	-9.32	55.75	0.85	0.08	QP
3	0.171	35.60	54.90	-19.30	34.95	0.57	0.08	Average
4	0.171	51.55	64.90	-13.35	50.90	0.57	0.08	QP
5	0.226	26.02	52.61	-26.59	25.71	0.22	0.09	Average
6	0.226	41.05	62.61	-21.56	40.74	0.22	0.09	QP
7	0.421	31.02	47.42	-16.40	30.77	0.14	0.11	Average
8	0.421	35.74	57.42	-21.68	35.49	0.14	0.11	QP
9	4.574	16.57	46.00	-29.43	15.55	0.71	0.31	Average
10	4.574	24.61	56.00	-31.39	23.59	0.71	0.31	QP
11	23.762	18.67	50.00	-31.33	17.63	0.97	0.07	Average
12	23.762	24.11	60.00	-35.89	23.07	0.97	0.07	QP

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

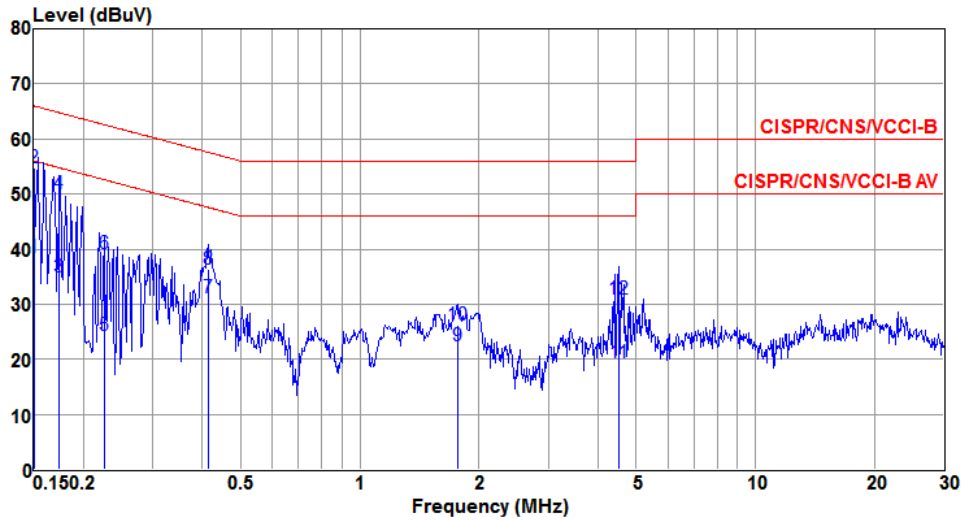
Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Line	Test Configuration	1



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	38.34	56.00	-17.66	37.34	0.92	0.08	Average
2*	0.150	54.88	66.00	-11.12	53.88	0.92	0.08	QP
3	0.169	34.80	55.03	-20.23	34.07	0.65	0.08	Average
4	0.169	50.47	65.03	-14.56	49.74	0.65	0.08	QP
5	0.216	26.34	52.96	-26.62	26.01	0.24	0.09	Average
6	0.216	39.65	62.96	-23.31	39.32	0.24	0.09	QP
7	0.421	33.61	47.42	-13.81	33.32	0.18	0.11	Average
8	0.421	37.42	57.42	-20.00	37.13	0.18	0.11	QP
9	0.894	22.96	46.00	-23.04	22.71	0.10	0.15	Average
10	0.894	26.43	56.00	-29.57	26.18	0.10	0.15	QP
11	4.478	18.45	46.00	-27.55	17.83	0.31	0.31	Average
12	4.478	31.78	56.00	-24.22	31.16	0.31	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).

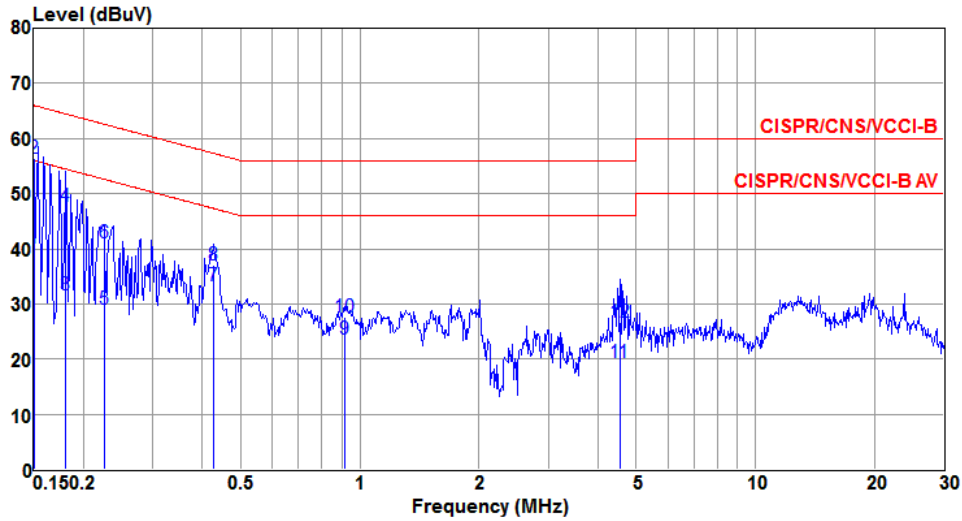
Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Neutral	Test Configuration	1



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.150	38.57	56.00	-17.43	37.64	0.85	0.08	Average
2*	0.150	54.70	66.00	-11.30	53.77	0.85	0.08	QP
3	0.174	34.85	54.77	-19.92	34.22	0.54	0.09	Average
4	0.174	50.02	64.77	-14.75	49.39	0.54	0.09	QP
5	0.226	24.41	52.61	-28.20	24.10	0.22	0.09	Average
6	0.226	39.14	62.61	-23.47	38.83	0.22	0.09	QP
7	0.413	31.19	47.59	-16.40	30.95	0.13	0.11	Average
8	0.413	36.41	57.59	-21.18	36.17	0.13	0.11	QP
9	1.762	22.31	46.00	-23.69	21.85	0.23	0.23	Average
10	1.762	26.16	56.00	-29.84	25.70	0.23	0.23	QP
11	4.525	19.38	46.00	-26.62	18.36	0.71	0.31	Average
12	4.525	30.89	56.00	-25.11	29.87	0.71	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).

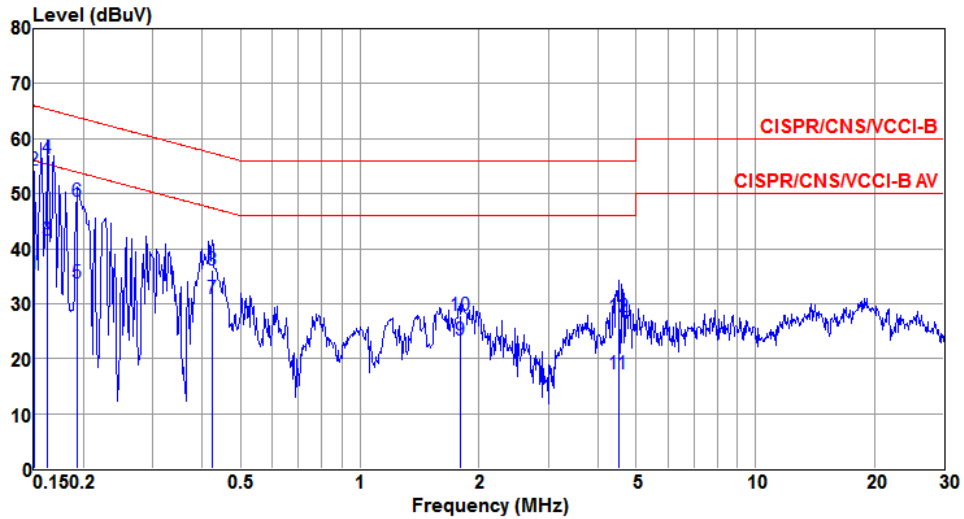
Modulation	11a	Test Freq. (MHz)	5785
Power Phase	Line	Test Configuration	2



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	40.16	56.00	-15.84	39.16	0.92	0.08	Average
2*	0.150	56.41	66.00	-9.59	55.41	0.92	0.08	QP
3	0.181	31.73	54.46	-22.73	31.16	0.48	0.09	Average
4	0.181	47.67	64.46	-16.79	47.10	0.48	0.09	QP
5	0.226	29.14	52.61	-23.47	28.81	0.24	0.09	Average
6	0.226	41.03	62.61	-21.58	40.70	0.24	0.09	QP
7	0.428	33.36	47.29	-13.93	33.08	0.17	0.11	Average
8	0.428	37.00	57.29	-20.29	36.72	0.17	0.11	QP
9	0.914	23.51	46.00	-22.49	23.25	0.10	0.16	Average
10	0.914	27.69	56.00	-28.31	27.43	0.10	0.16	QP
11	4.549	19.29	46.00	-26.71	18.67	0.31	0.31	Average
12	4.549	26.60	56.00	-29.40	25.98	0.31	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	11a	Test Freq. (MHz)	5785
Power Phase	Neutral	Test Configuration	2



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	35.46	56.00	-20.54	34.53	0.85	0.08	Average
2	0.150	54.26	66.00	-11.74	53.33	0.85	0.08	QP
3	0.162	41.65	55.34	-13.69	40.89	0.68	0.08	Average
4*	0.162	56.44	65.34	-8.90	55.68	0.68	0.08	QP
5	0.192	33.74	53.93	-20.19	33.34	0.31	0.09	Average
6	0.192	48.51	63.93	-15.42	48.11	0.31	0.09	QP
7	0.424	30.81	47.37	-16.56	30.56	0.14	0.11	Average
8	0.424	36.10	57.37	-21.27	35.85	0.14	0.11	QP
9	1.800	23.33	46.00	-22.67	22.87	0.23	0.23	Average
10	1.800	27.85	56.00	-28.15	27.39	0.23	0.23	QP
11	4.501	17.33	46.00	-28.67	16.31	0.71	0.31	Average
12	4.501	27.55	56.00	-28.45	26.53	0.71	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).

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.

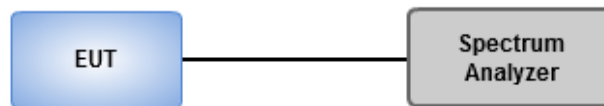
Occupied Bandwidth

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

6dB Bandwidth

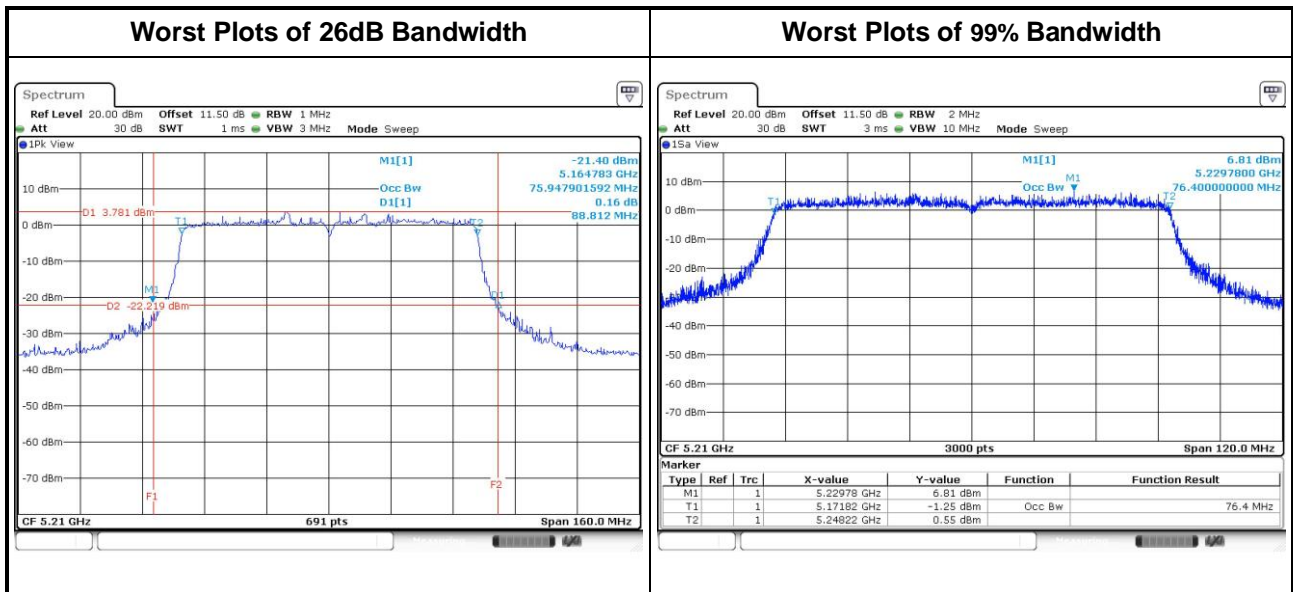
1. Set RBW = 100kHz, VBW = 300kHz
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

3.2.3 Test Setup

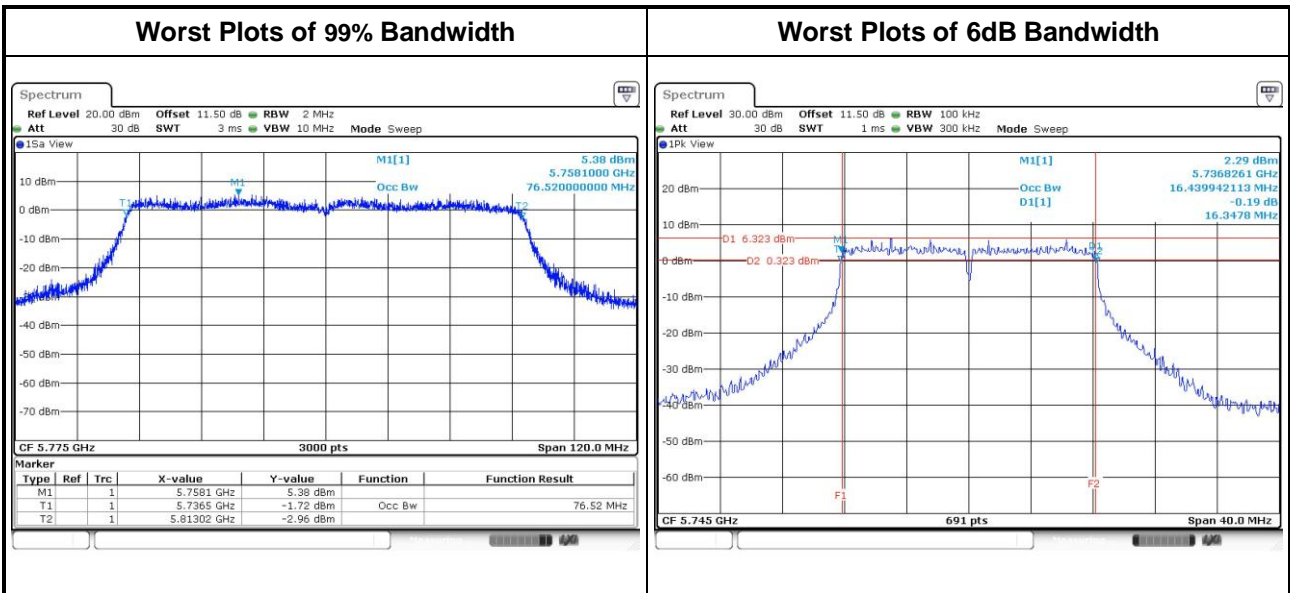


3.2.4 Test Result of Emission Bandwidth

For Frequency band 5150-5250 MHz										
Emission Bandwidth										
Mode	N _{TX}	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	3	5180	22.38	22.03	22.43	---	16.70	16.73	16.72	---
11a	3	5200	22.03	22.14	22.55	---	16.76	16.68	16.67	---
11a	3	5240	23.19	21.80	22.20	---	16.79	16.74	16.67	---
VHT20	3	5180	24.06	23.42	23.30	---	17.98	17.80	17.83	---
VHT20	3	5200	23.59	24.00	23.42	---	17.97	17.84	17.82	---
VHT20	3	5240	23.42	23.25	23.36	---	17.83	17.82	17.84	---
VHT40	3	5190	45.80	45.68	45.33	---	36.78	36.62	36.64	---
VHT40	3	5230	46.03	45.91	46.73	---	37.12	36.76	36.70	---
VHT80	3	5210	86.03	88.35	88.81	---	76.24	76.40	76.36	---



For Frequency band 5725-5850 MHz											
Emission Bandwidth											
Mode	N _{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				6dB BW Limit (MHz)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	3	5745	16.80	16.70	16.66	---	16.35	16.35	16.35	---	0.5
11a	3	5785	16.72	16.73	16.62	---	16.35	16.35	16.35	---	0.5
11a	3	5825	16.73	16.74	16.64	---	16.35	16.35	16.35	---	0.5
VHT20	3	5745	17.91	17.88	17.84	---	17.62	17.62	17.62	---	0.5
VHT20	3	5785	17.92	17.82	17.82	---	17.62	17.62	17.62	---	0.5
VHT20	3	5825	17.89	17.73	17.80	---	17.62	17.57	17.62	---	0.5
VHT40	3	5755	36.80	36.92	36.76	---	36.41	36.41	36.41	---	0.5
VHT40	3	5795	36.78	36.78	36.80	---	36.41	36.41	36.41	---	0.5
VHT80	3	5775	76.44	76.52	76.32	---	75.83	76.29	75.83	---	0.5



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 checked="" type="checkbox"/>	Indoor access point	Conducted Power: 1 W
<input type="checkbox"/>	Fixed point-to-point access points	Conducted Power: 1 W
<input type="checkbox"/>	Mobile and portable client devices	Conducted Power: 250 mW

Frequency Band (MHz)	Limit
<input type="checkbox"/> 5250 ~ 5350	250mW or 11dBm+10 log B
<input type="checkbox"/> 5470 ~ 5725	250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5725 ~ 5850	1 W

Note: "B" is the 26dB emission bandwidth in MHz.

3.3.2 Test Procedures

- Method PM-G (Measurement using a gated RF average power meter)**
 - Measurements may 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 _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	3	5180	8.86	9.34	8.72	---	23.729	13.75	30.00
11a	3	5200	8.84	9.21	8.77	---	23.526	13.72	30.00
11a	3	5240	8.8	9.04	8.49	---	22.666	13.55	30.00
HT20	3	5180	8.98	9.26	8.61	---	23.601	13.73	30.00
HT20	3	5200	8.68	9.32	8.71	---	23.360	13.68	30.00
HT20	3	5240	7.35	7.32	7.29	---	16.186	12.09	30.00
HT40	3	5190	11.85	12.22	11.63	---	46.538	16.68	30.00
HT40	3	5230	10.78	10.62	10.71	---	35.278	15.48	30.00
VHT20	3	5180	9.02	9.34	8.69	---	23.966	13.80	30.00
VHT20	3	5200	8.72	9.4	8.76	---	23.673	13.74	30.00
VHT20	3	5240	7.41	7.39	7.34	---	16.411	12.15	30.00
VHT40	3	5190	11.91	12.26	11.66	---	47.006	16.72	30.00
VHT40	3	5230	10.84	10.67	10.77	---	35.742	15.53	30.00
VHT80	3	5210	11.13	10.54	10.70	---	36.045	15.57	30.00

For Frequency band 5725-5850 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	3	5745	18.92	18.72	18.47	---	222.763	23.48	30.00
11a	3	5785	21.13	20.67	20.84	---	367.738	25.66	30.00
11a	3	5825	20.68	20.72	20.61	---	350.062	25.44	30.00
HT20	3	5745	18.78	18.69	18.43	---	219.132	23.41	30.00
HT20	3	5785	20.98	20.53	20.85	---	359.912	25.56	30.00
HT20	3	5825	20.62	20.76	20.51	---	346.930	25.40	30.00
HT40	3	5755	13.88	13.82	13.74	---	72.193	18.58	30.00
HT40	3	5795	19.99	19.78	19.83	---	290.992	24.64	30.00
VHT20	3	5745	18.85	18.73	18.47	---	221.688	23.46	30.00
VHT20	3	5785	21.02	20.58	20.89	---	363.505	25.61	30.00
VHT20	3	5825	20.66	20.8	20.58	---	350.927	25.45	30.00
VHT40	3	5755	13.93	13.86	13.79	---	72.972	18.63	30.00
VHT40	3	5795	20.04	19.84	19.89	---	294.807	24.70	30.00
VHT80	3	5775	9.57	9.67	9.48	---	27.197	14.35	30.00

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 checked="" type="checkbox"/>	Indoor access point	17 dBm / MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm / MHz
<input type="checkbox"/>	Mobile and portable client devices	11 dBm / MHz

Frequency Band (MHz)		Limit
<input type="checkbox"/>	5250 ~ 5350	11 dBm / MHz
<input type="checkbox"/>	5470 ~ 5725	11 dBm / MHz
<input checked="" type="checkbox"/>	5725 ~ 5850	30 dBm / 500 kHz

3.4.2 Test Procedures

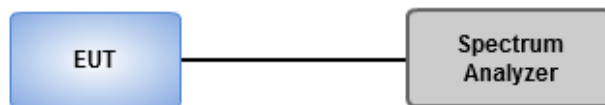
For 5150 ~ 5250 MHz

- Method SA-1 (for 11a/VHT20)
 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 VHT40/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.

For 5725 ~ 5850 MHz

- Method SA-1 (for 11a/VHT20)
 1. Set RBW = 500 kHz, VBW = 2 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 VHT40/VHT80)
 1. Set RBW = 500 kHz, VBW = 2 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

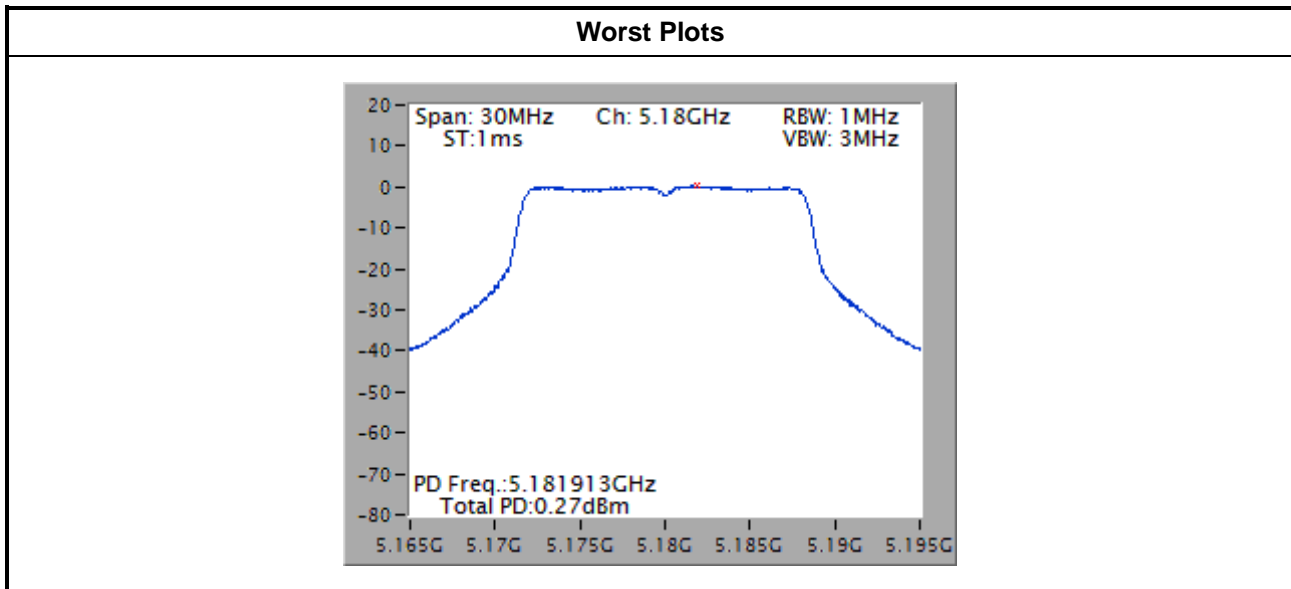


3.4.4 Test Result of Peak Power Spectral Density

For Frequency band 5150-5250 MHz						
Condition			Peak Power Spectral Density (dBm/MHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	3	5180	0.27	0.00	0.27	13.45
11a	3	5200	0.11	0.00	0.11	13.45
11a	3	5240	-0.16	0.00	-0.16	13.45
VHT20	3	5180	-0.13	0.00	-0.13	13.45
VHT20	3	5200	0.02	0.00	0.02	13.45
VHT20	3	5240	-1.27	0.00	-1.27	13.45
VHT40	3	5190	-0.55	0.25	-0.30	13.45
VHT40	3	5230	-1.20	0.25	-0.95	13.45
VHT80	3	5210	-4.69	0.58	-4.11	13.45

Note:

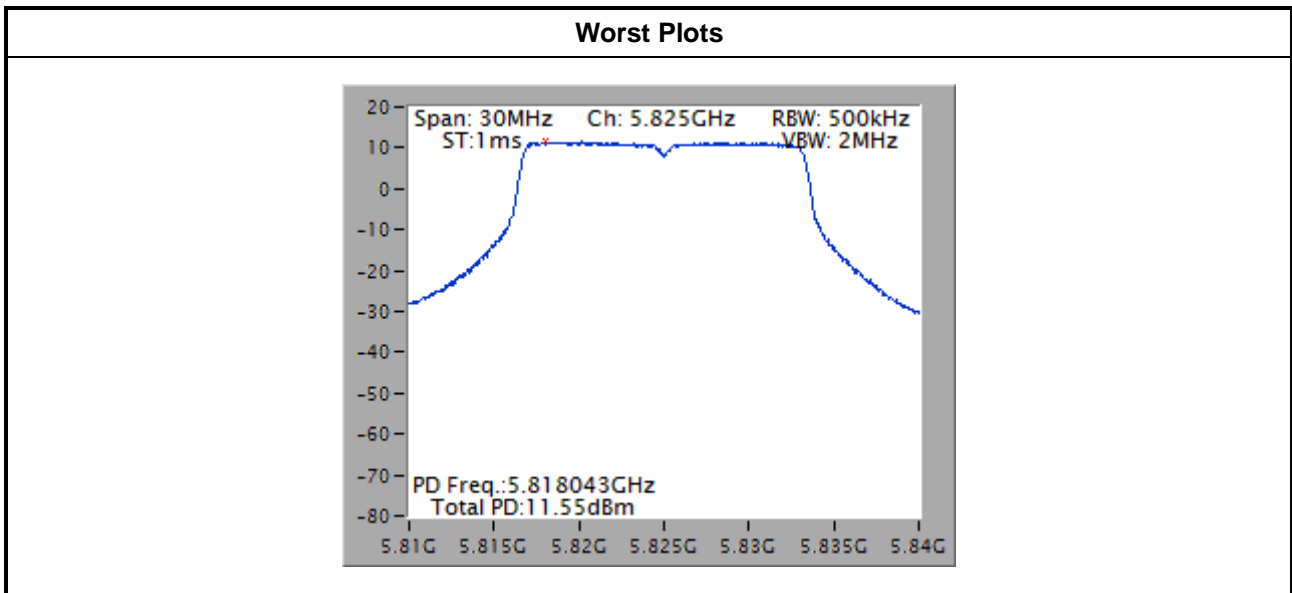
1. D.F is duty factor.
2. Test results are bin-by-bin summing measured value of each TX port.
3. Directional gain = $4.78 + 10 \cdot \log(3/1) = 9.55 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $17 \text{ dBm} - (9.55 \text{ dBi} - 6 \text{ dBi}) = 13.45 \text{ dBm}$.



For Frequency band 5725-5850 MHz						
Condition			Peak Power Spectral Density (dBm/500kHz)			
Modulation Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	3	5745	9.22	0.00	9.22	25.56
11a	3	5785	10.99	0.00	10.99	25.56
11a	3	5825	11.55	0.00	11.55	25.56
VHT20	3	5745	8.88	0.00	8.88	25.56
VHT20	3	5785	10.83	0.00	10.83	25.56
VHT20	3	5825	11.07	0.00	11.07	25.56
VHT40	3	5755	0.42	0.25	0.67	25.56
VHT40	3	5795	6.51	0.25	6.76	25.56
VHT80	3	5775	-7.04	0.58	-6.46	25.56

Note:

1. D.F is duty factor.
2. Test results are bin-by-bin summing measured value of each TX port.
3. Directional gain = $5.67 + 10 \cdot \log(3/1) = 10.44 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $30 \text{ dBm} - (10.44 \text{ dBi} - 6 \text{ dBi}) = 25.56 \text{ dBm}$.



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] 5.85 5.86 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

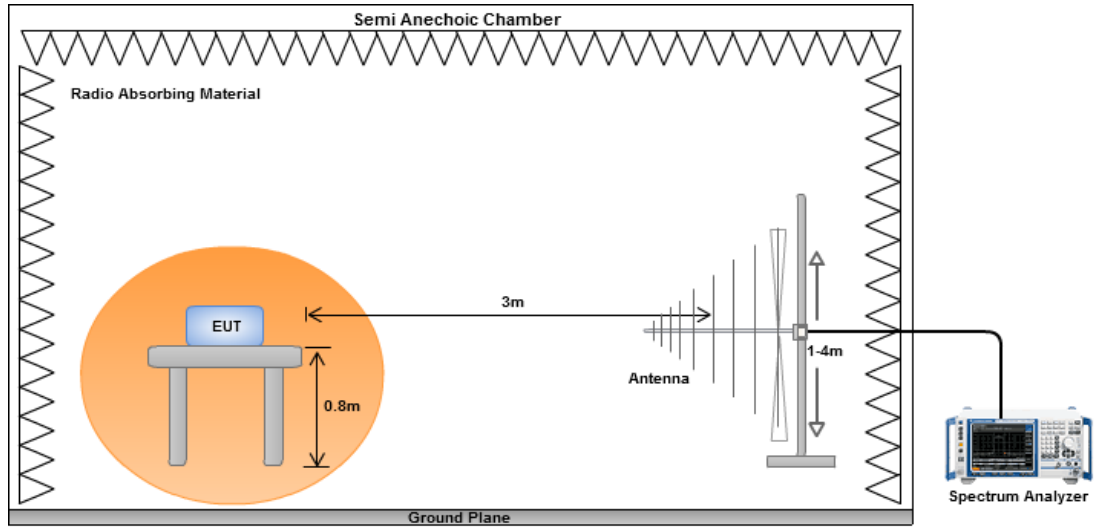
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

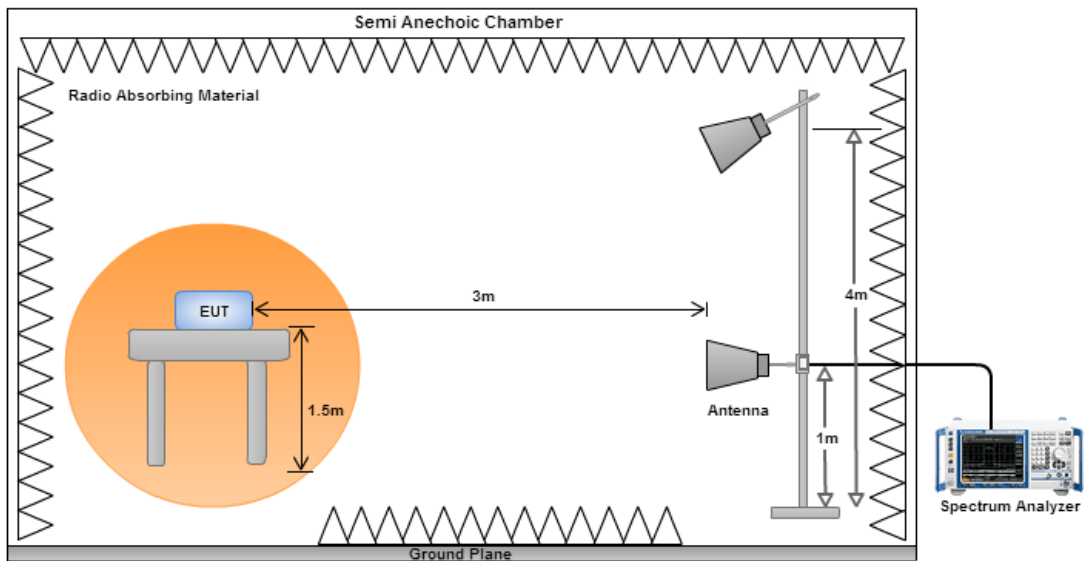
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



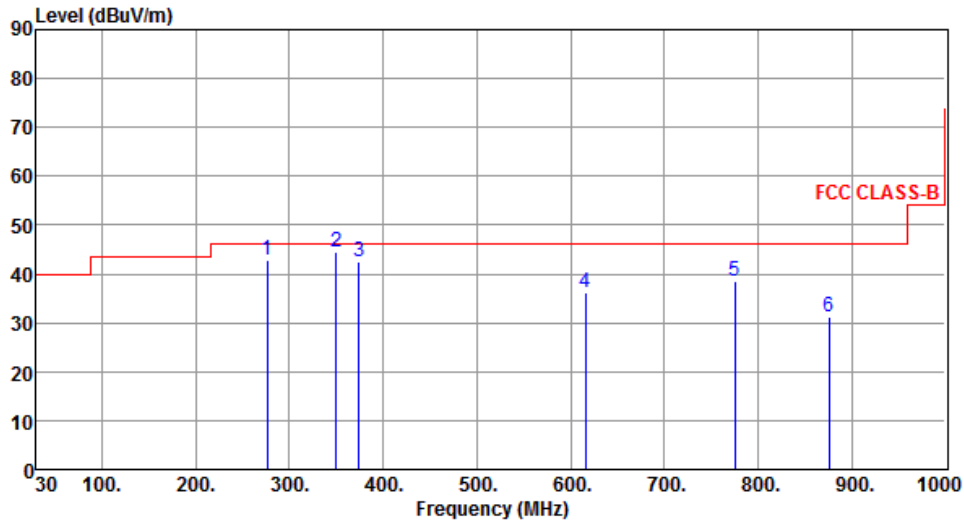
Radiated Emissions above 1 GHz



Dipole antenna

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)_antenna cable 100mm

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	276.38	42.97	46.00	-3.03	59.54	-16.57	QP	---	---
2	350.10	44.50	46.00	-1.50	59.35	-14.85	QP	---	---
3	374.35	42.41	46.00	-3.59	56.63	-14.22	Peak	---	---
4	615.88	36.34	46.00	-9.66	45.67	-9.33	Peak	---	---
5	774.96	38.58	46.00	-7.42	45.49	-6.91	Peak	---	---
6	875.84	31.38	46.00	-14.62	37.13	-5.75	Peak	---	---

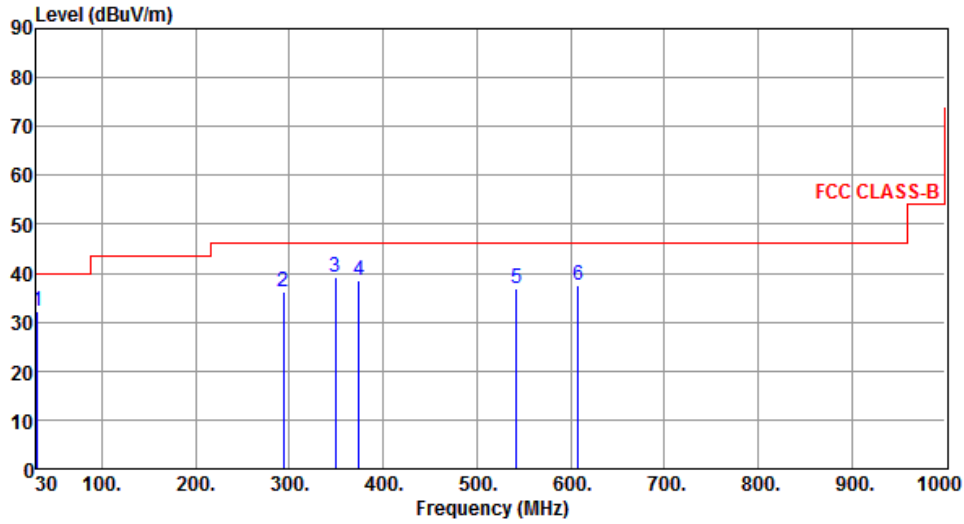
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	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	30.97	32.12	40.00	-7.88	49.50	-17.38	Peak	---	---
2	293.84	36.30	46.00	-9.70	52.45	-16.15	Peak	---	---
3	349.13	39.04	46.00	-6.96	53.90	-14.86	Peak	---	---
4	374.35	38.63	46.00	-7.37	52.85	-14.22	Peak	---	---
5	542.16	36.82	46.00	-9.18	47.40	-10.58	Peak	---	---
6	608.12	37.57	46.00	-8.43	47.01	-9.44	Peak	---	---

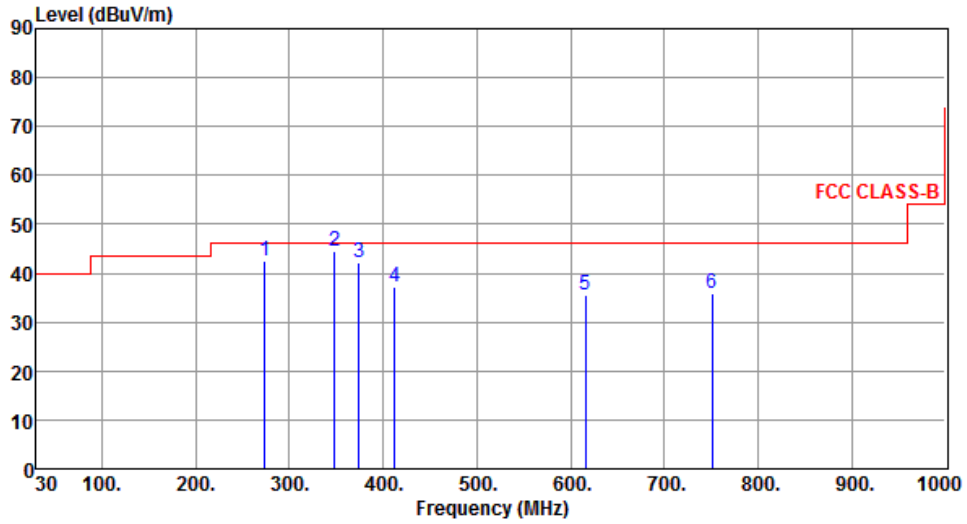
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

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

Modulation	11a	Test Freq. (MHz)	5785
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	273.47	42.51	46.00	-3.49	59.23	-16.72	QP	---	---
2	348.16	44.47	46.00	-1.53	59.35	-14.88	QP	---	---
3	374.35	42.29	46.00	-3.71	56.51	-14.22	Peak	---	---
4	412.18	37.30	46.00	-8.70	50.58	-13.28	Peak	---	---
5	615.88	35.56	46.00	-10.44	44.89	-9.33	Peak	---	---
6	750.71	35.95	46.00	-10.05	43.05	-7.10	Peak	---	---

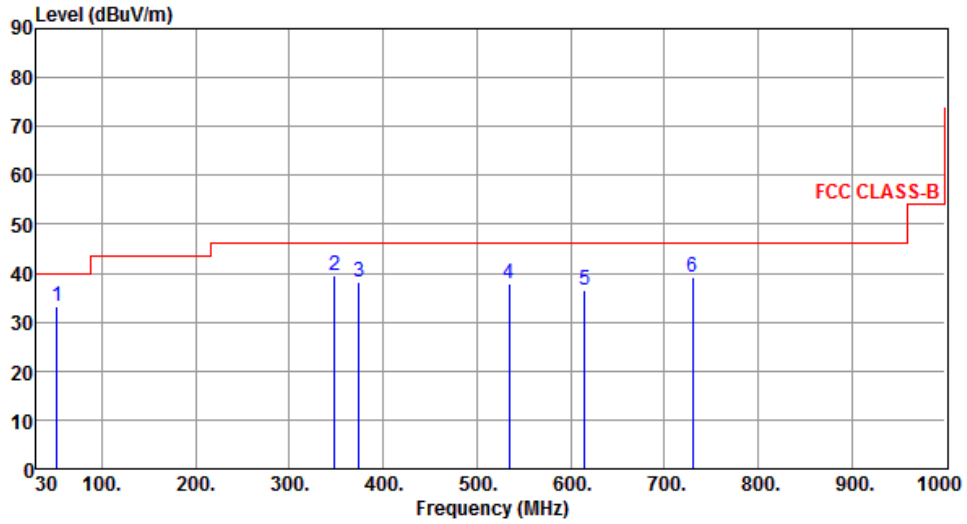
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	11a	Test Freq. (MHz)	5785
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	52.31	33.07	40.00	-6.93	49.47	-16.40	Peak	---	---
2	348.16	39.44	46.00	-6.56	54.32	-14.88	Peak	---	---
3	374.35	38.21	46.00	-7.79	52.43	-14.22	Peak	---	---
4	534.40	37.88	46.00	-8.12	48.61	-10.73	Peak	---	---
5	614.91	36.65	46.00	-9.35	46.00	-9.35	Peak	---	---
6	730.34	39.35	46.00	-6.65	46.81	-7.46	Peak	---	---

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

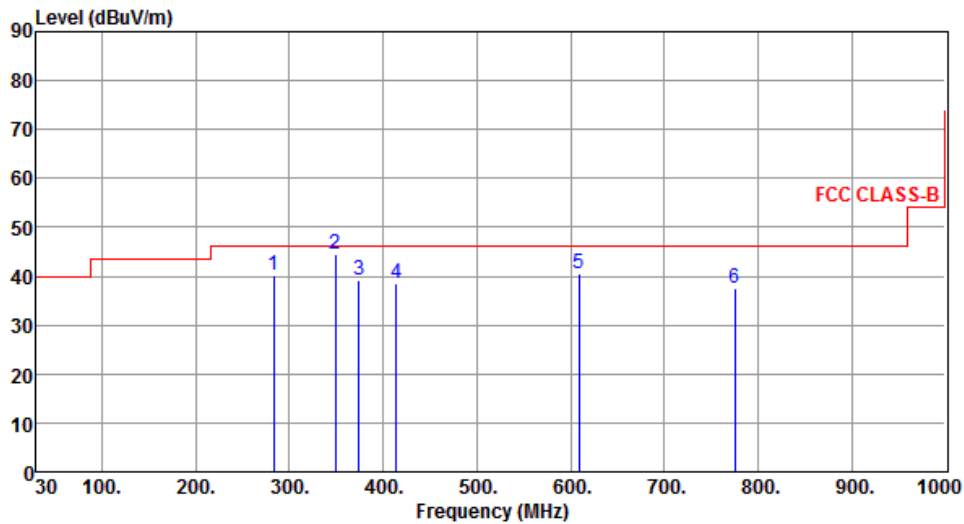
*Factor includes antenna factor , cable loss and amplifier gain

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 (Below 1GHz)_antenna cable 265mm

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	283.17	40.12	46.00	-5.88	56.45	-16.33	QP	---	---
2	349.07	44.42	46.00	-1.58	59.28	-14.86	QP	---	---
3	374.35	39.28	46.00	-6.72	53.50	-14.22	Peak	---	---
4	414.12	38.44	46.00	-7.56	51.68	-13.24	Peak	---	---
5	609.09	40.52	46.00	-5.48	49.95	-9.43	Peak	---	---
6	774.96	37.37	46.00	-8.63	44.28	-6.91	Peak	---	---

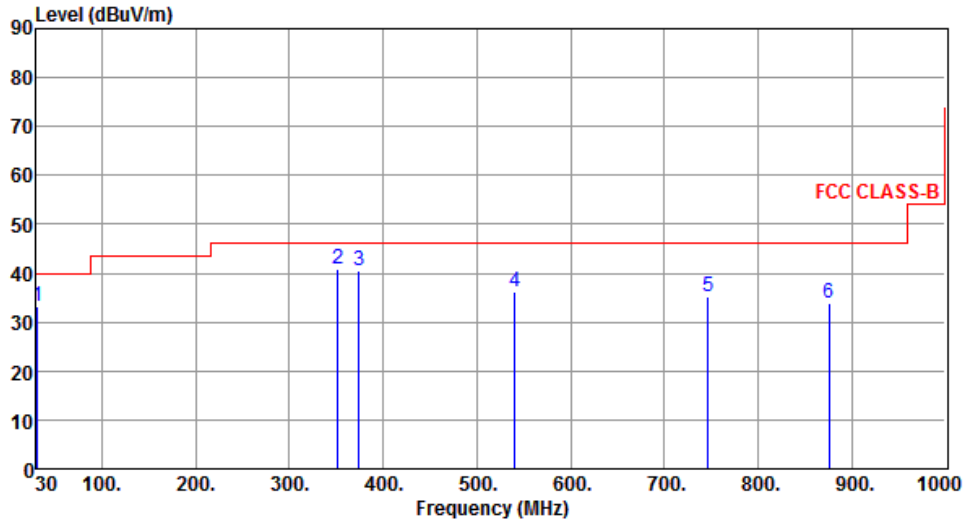
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	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	30.97	33.21	40.00	-6.79	50.59	-17.38	Peak	---	---
2	352.04	40.98	46.00	-5.02	55.78	-14.80	Peak	---	---
3	374.35	40.65	46.00	-5.35	54.87	-14.22	Peak	---	---
4	540.22	36.35	46.00	-9.65	46.97	-10.62	Peak	---	---
5	746.83	35.17	46.00	-10.83	42.33	-7.16	Peak	---	---
6	875.84	34.03	46.00	-11.97	39.78	-5.75	Peak	---	---

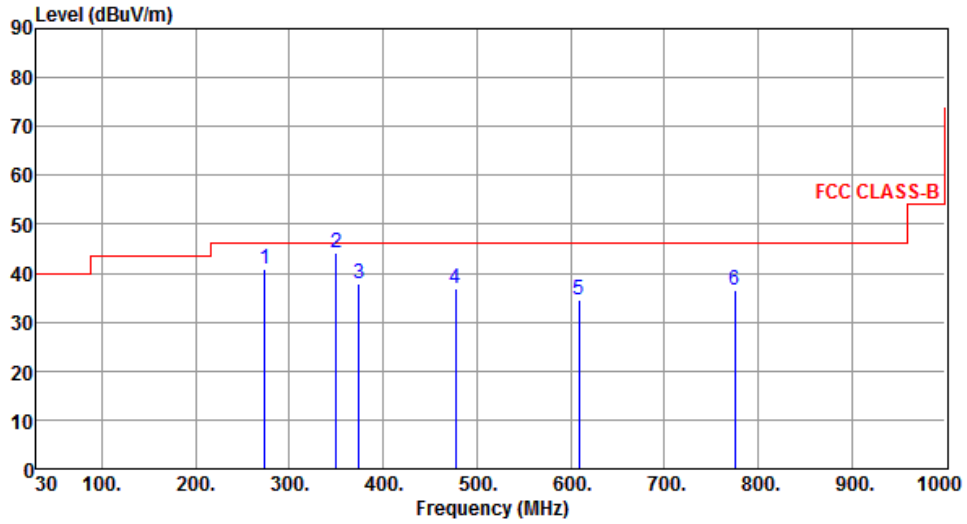
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	11a	Test Freq. (MHz)	5785
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	273.47	40.94	46.00	-5.06	57.66	-16.72	QP	---	---
2	350.10	44.15	46.00	-1.85	59.00	-14.85	QP	---	---
3	374.35	37.86	46.00	-8.14	52.08	-14.22	Peak	---	---
4	477.17	36.70	46.00	-9.30	48.57	-11.87	Peak	---	---
5	609.09	34.62	46.00	-11.38	44.05	-9.43	Peak	---	---
6	774.96	36.66	46.00	-9.34	43.57	-6.91	Peak	---	---

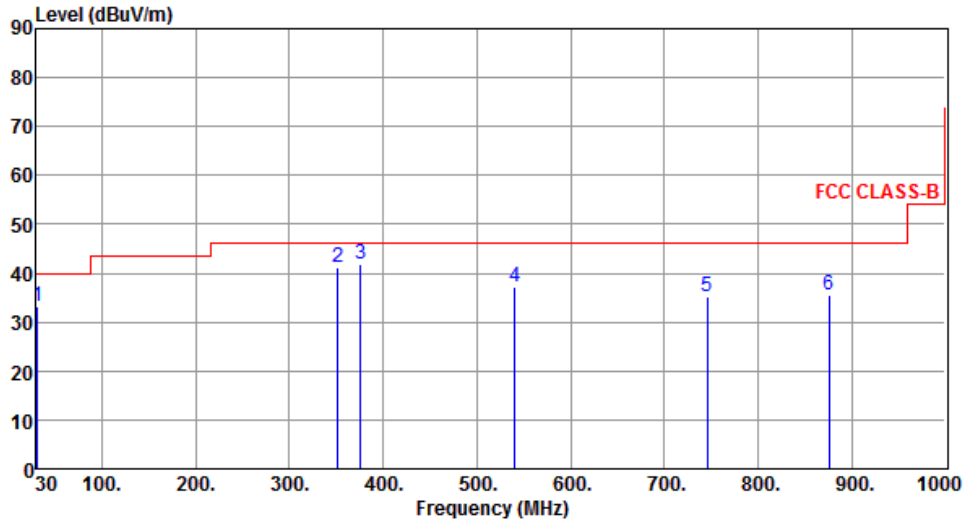
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	11a	Test Freq. (MHz)	5785
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	31.17	33.34	46.00	-6.66	50.71	-17.37	Peak	---	---
2	351.44	41.23	46.00	-4.77	56.05	-14.82	Peak	---	---
3	375.64	41.74	46.00	-4.26	55.92	-14.18	Peak	---	---
4	540.38	37.07	46.00	-8.93	47.68	-10.61	Peak	---	---
5	745.57	35.36	46.00	-10.64	42.54	-7.18	Peak	---	---
6	875.63	35.44	46.00	-10.56	41.19	-5.75	Peak	---	---

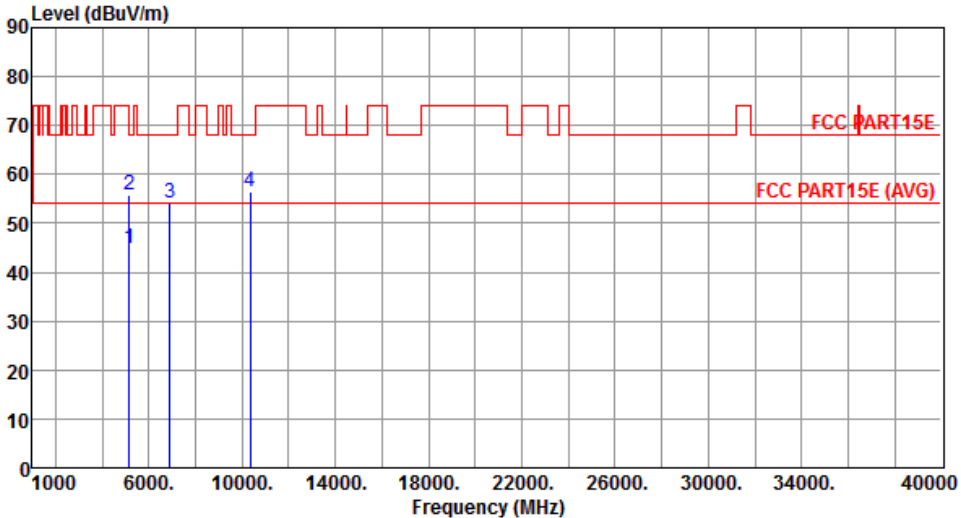
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

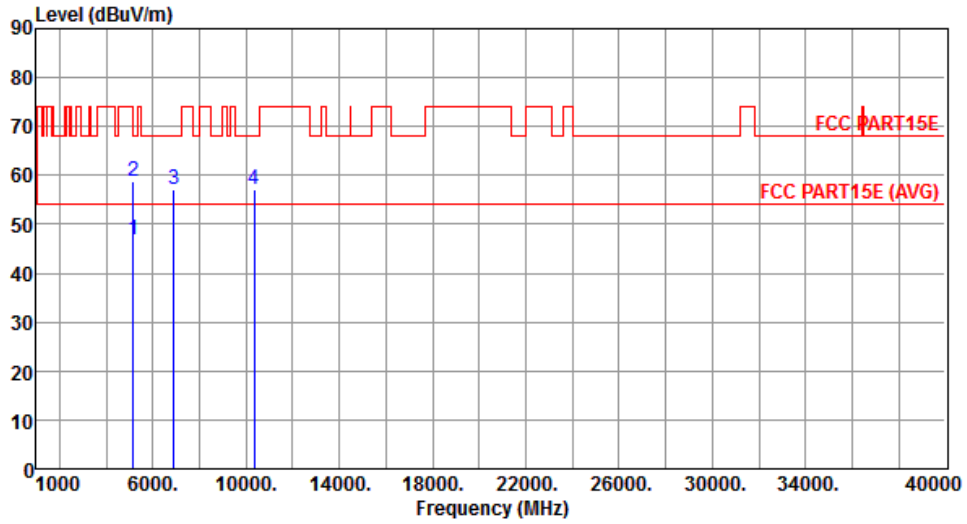
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

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

Modulation	11a	Test Freq. (MHz)	5180																																																							
Polarization	Horizontal	Test Configuration	1																																																							
																																																										
	<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>44.93</td> <td>54.00</td> <td>-9.07</td> <td>39.47</td> <td>5.46</td> <td>Average</td> <td>---</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>55.67</td> <td>74.00</td> <td>-18.33</td> <td>50.21</td> <td>5.46</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>6906.66</td> <td>54.19</td> <td>68.20</td> <td>-14.01</td> <td>45.78</td> <td>8.41</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>10360.00</td> <td>56.42</td> <td>68.20</td> <td>-11.78</td> <td>41.01</td> <td>15.41</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	5150.00	44.93	54.00	-9.07	39.47	5.46	Average	---	2	5150.00	55.67	74.00	-18.33	50.21	5.46	Peak	---	3	6906.66	54.19	68.20	-14.01	45.78	8.41	Peak	---	4	10360.00	56.42	68.20	-11.78	41.01	15.41	Peak	---			
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																		
1	5150.00	44.93	54.00	-9.07	39.47	5.46	Average	---																																																		
2	5150.00	55.67	74.00	-18.33	50.21	5.46	Peak	---																																																		
3	6906.66	54.19	68.20	-14.01	45.78	8.41	Peak	---																																																		
4	10360.00	56.42	68.20	-11.78	41.01	15.41	Peak	---																																																		
<p>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).</p>																																																										

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



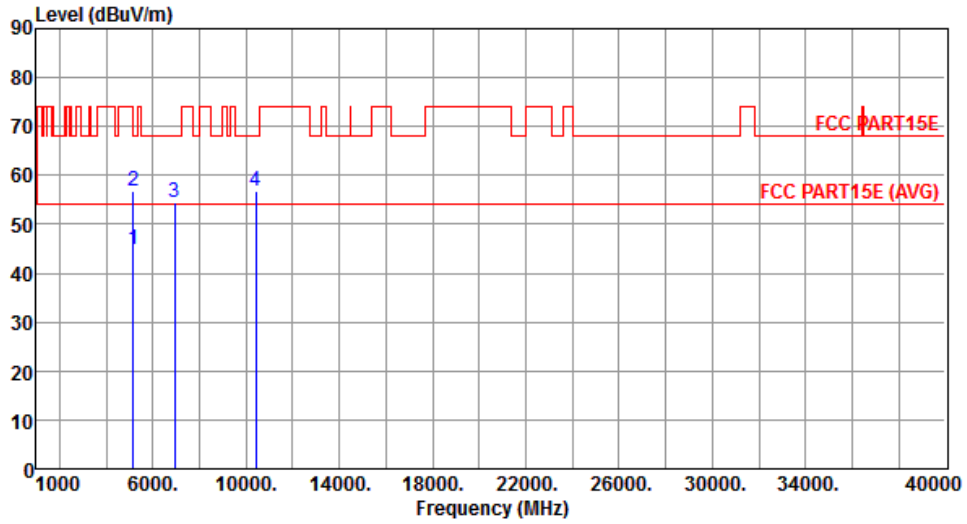
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.91	54.00	-7.09	41.45	5.46	Average	---	---
2	5150.00	58.68	74.00	-15.32	53.22	5.46	Peak	---	---
3	6906.66	57.26	68.20	-10.94	48.85	8.41	Peak	---	---
4	10360.00	56.99	68.20	-11.21	41.58	15.41	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



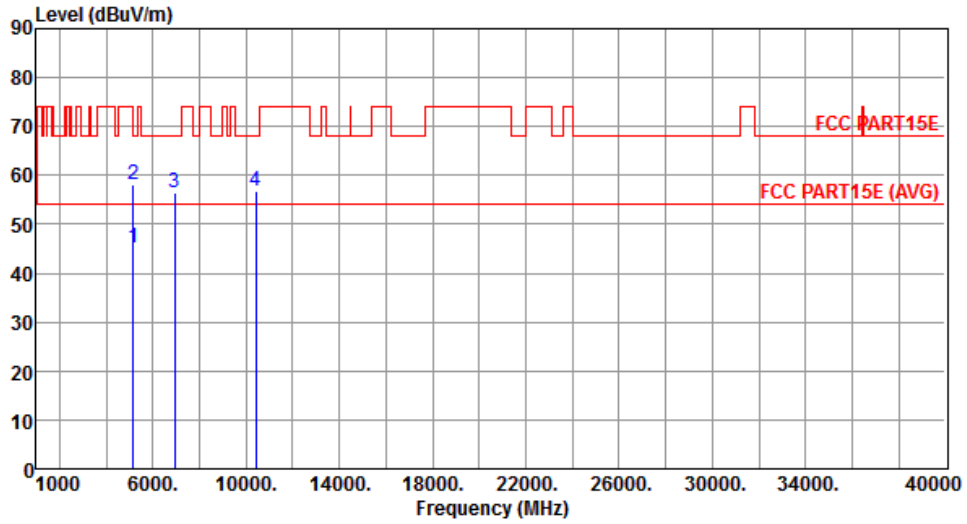
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.88	54.00	-9.12	39.42	5.46	Average	---	---
2	5150.00	56.74	74.00	-17.26	51.28	5.46	Peak	---	---
3	6933.33	54.42	68.20	-13.78	45.97	8.45	Peak	---	---
4	10400.00	56.83	68.20	-11.37	41.28	15.55	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



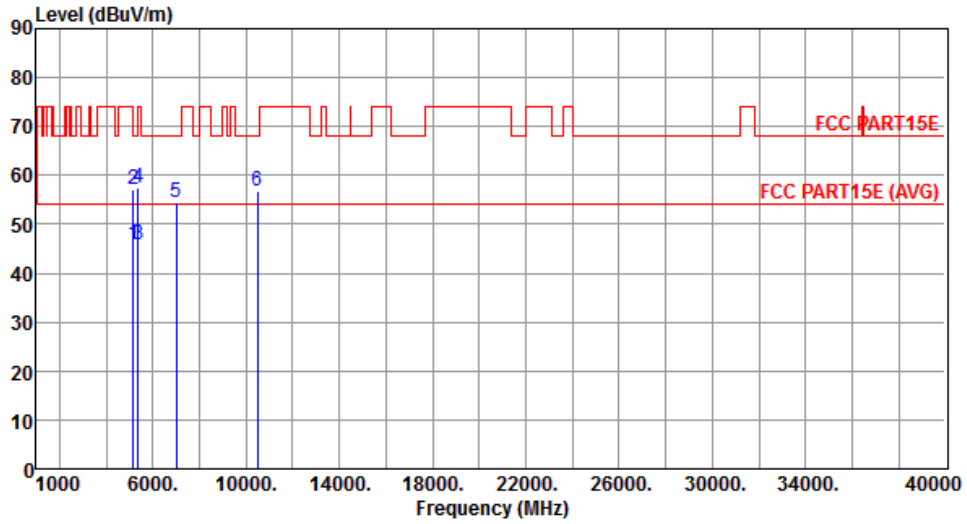
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.21	54.00	-8.79	39.75	5.46	Average	---	---
2	5150.00	58.00	74.00	-16.00	52.54	5.46	Peak	---	---
3	6933.33	56.33	68.20	-11.87	47.88	8.45	Peak	---	---
4	10400.00	56.92	68.20	-11.28	41.37	15.55	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



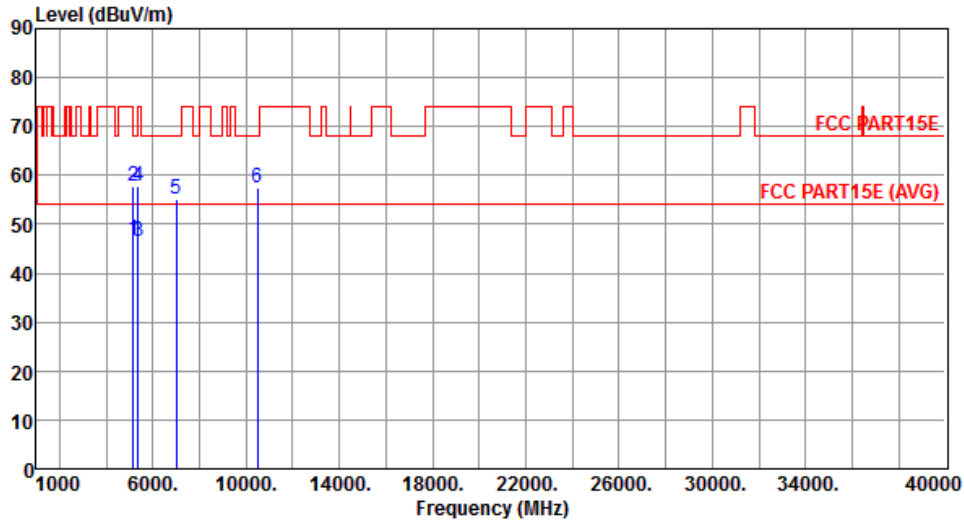
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.98	54.00	-8.02	40.52	5.46	Average	---	---
2	5150.00	57.18	74.00	-16.82	51.72	5.46	Peak	---	---
3	5350.00	45.94	54.00	-8.06	40.38	5.56	Average	---	---
4	5350.00	57.45	74.00	-16.55	51.89	5.56	Peak	---	---
5	6986.66	54.33	68.20	-13.87	45.82	8.51	Peak	---	---
6	10480.00	56.94	68.20	-11.26	41.08	15.86	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



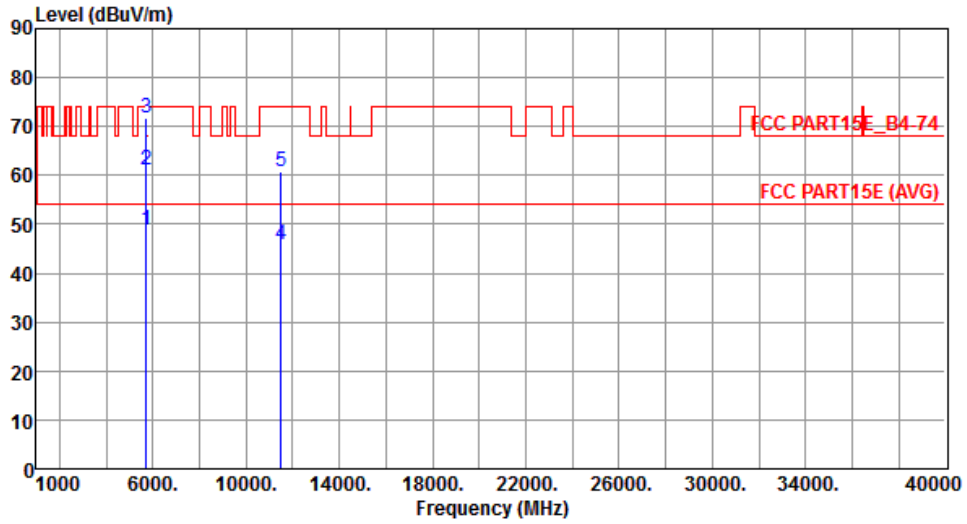
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.87	54.00	-7.13	41.41	5.46	Average	---	---
2	5150.00	57.92	74.00	-16.08	52.46	5.46	Peak	---	---
3	5350.00	46.56	54.00	-7.44	41.00	5.56	Average	---	---
4	5350.00	57.71	74.00	-16.29	52.15	5.56	Peak	---	---
5	6986.66	55.17	68.20	-13.03	46.66	8.51	Peak	---	---
6	10480.00	57.30	68.20	-10.90	41.44	15.86	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)	5745
Polarization	Horizontal	Test Configuration	1



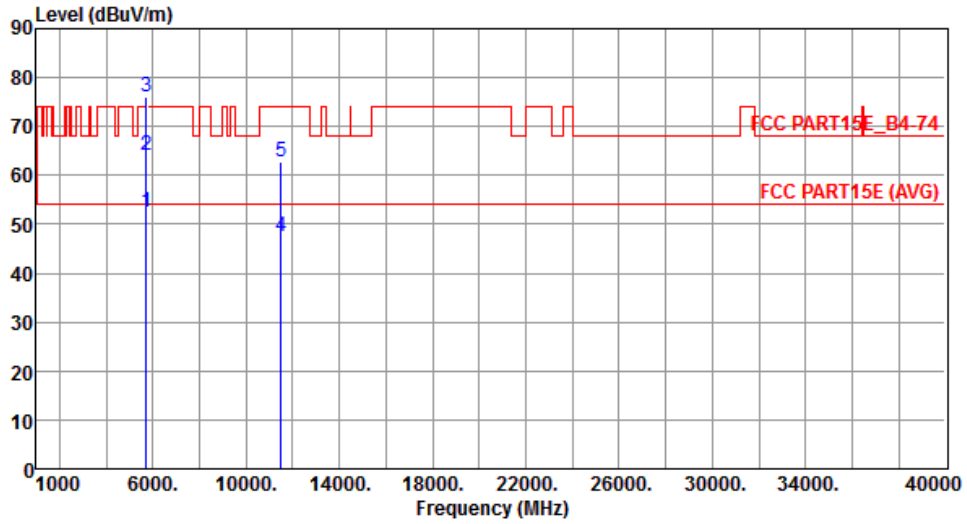
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	48.89	54.00	-5.11	43.24	5.65	Average	---	---
2	5715.00	61.04	74.00	-12.96	55.39	5.65	Peak	---	---
3	5725.00	71.88	78.20	-6.32	66.24	5.64	Peak	---	---
4	11490.00	45.81	54.00	-8.19	29.88	15.93	Average	---	---
5	11490.00	60.84	74.00	-13.16	44.91	15.93	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)	5745
Polarization	Vertical	Test Configuration	1



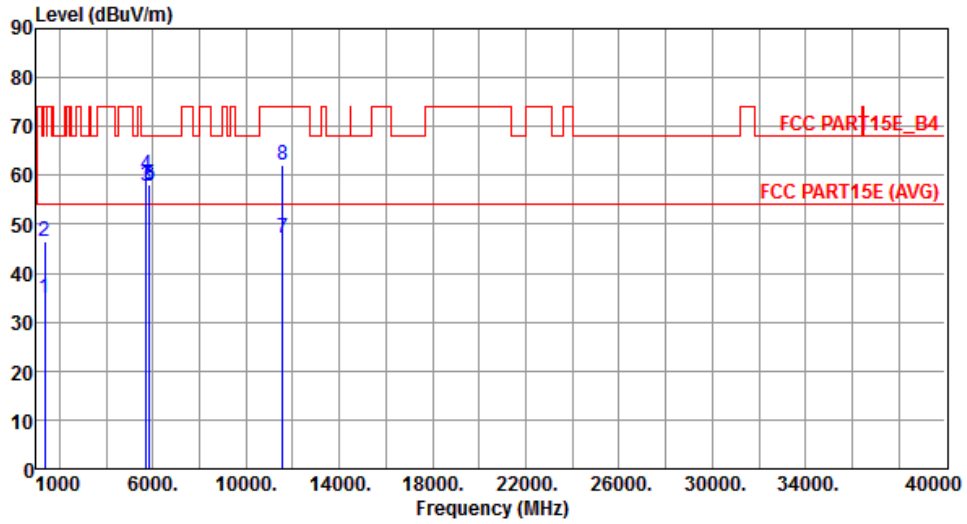
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	52.31	54.00	-1.69	46.66	5.65	Average	---	---
2	5715.00	64.23	74.00	-9.77	58.58	5.65	Peak	---	---
3	5725.00	76.06	78.20	-2.14	70.42	5.64	Peak	---	---
4	11490.00	47.65	54.00	-6.35	31.72	15.93	Average	---	---
5	11490.00	62.81	74.00	-11.19	46.88	15.93	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)	5785
Polarization	Horizontal	Test Configuration	1



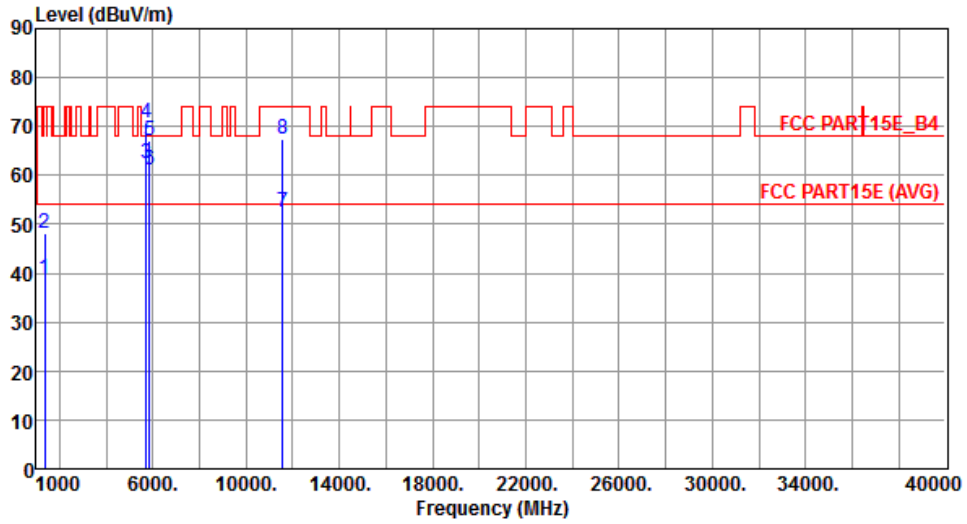
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1375.00	34.73	54.00	-19.27	42.15	-7.42	Average	---	---
2	1375.00	46.37	74.00	-27.63	53.79	-7.42	Peak	---	---
3	5715.00	57.77	68.20	-10.43	52.12	5.65	Peak	---	---
4	5725.00	60.04	78.20	-18.16	54.40	5.64	Peak	---	---
5	5850.00	58.06	78.20	-20.14	52.31	5.75	Peak	---	---
6	5860.00	57.64	68.20	-10.56	51.88	5.76	Peak	---	---
7	11570.00	47.20	54.00	-6.80	31.43	15.77	Average	---	---
8	11570.00	62.14	74.00	-11.86	46.37	15.77	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	11a	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	1



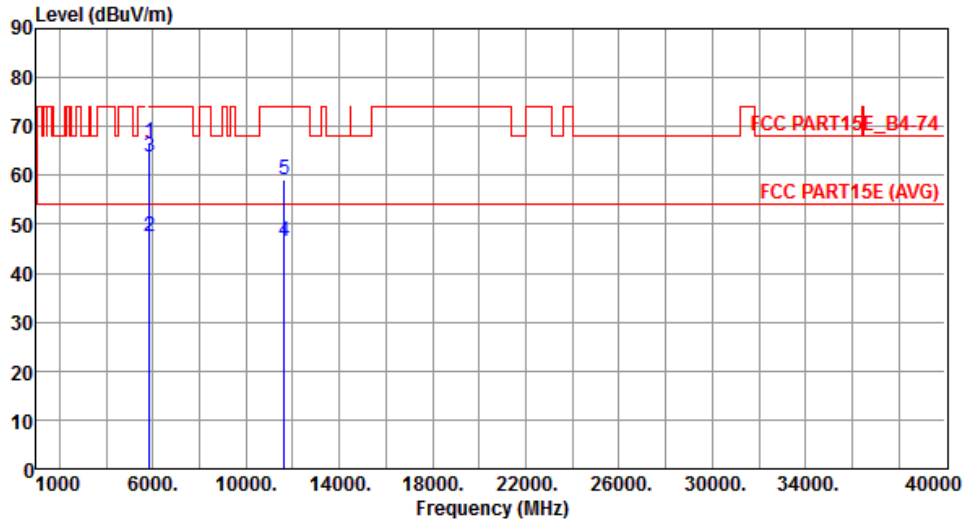
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1375.00	38.85	54.00	-15.15	46.27	-7.42	Average	---	---
2	1375.00	48.06	74.00	-25.94	55.48	-7.42	Peak	---	---
3	5715.00	62.46	68.20	-5.74	56.81	5.65	Peak	---	---
4	5725.00	70.75	78.20	-7.45	65.11	5.64	Peak	---	---
5	5850.00	66.93	78.20	-11.27	61.18	5.75	Peak	---	---
6	5860.00	61.18	68.20	-7.02	55.42	5.76	Peak	---	---
7	11570.00	52.31	54.00	-1.69	36.54	15.77	Average	---	---
8	11570.00	67.51	74.00	-6.49	51.74	15.77	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	11a	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	1



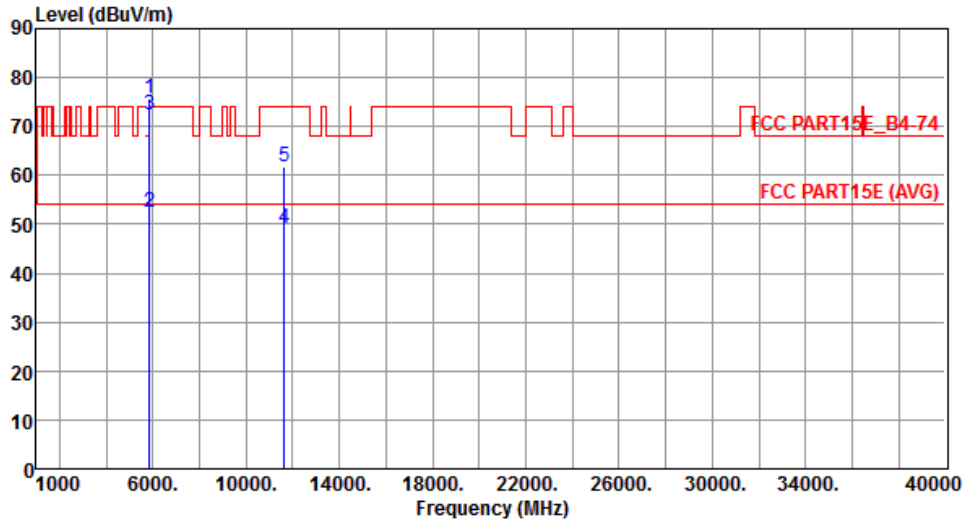
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	66.88	78.20	-11.32	61.13	5.75	Peak	---	---
2	5860.00	47.66	54.00	-6.34	41.90	5.76	Average	---	---
3	5860.00	63.62	74.00	-10.38	57.86	5.76	Peak	---	---
4	11650.00	46.40	54.00	-7.60	30.84	15.56	Average	---	---
5	11650.00	59.27	74.00	-14.73	43.71	15.56	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)	5825
Polarization	Vertical	Test Configuration	1



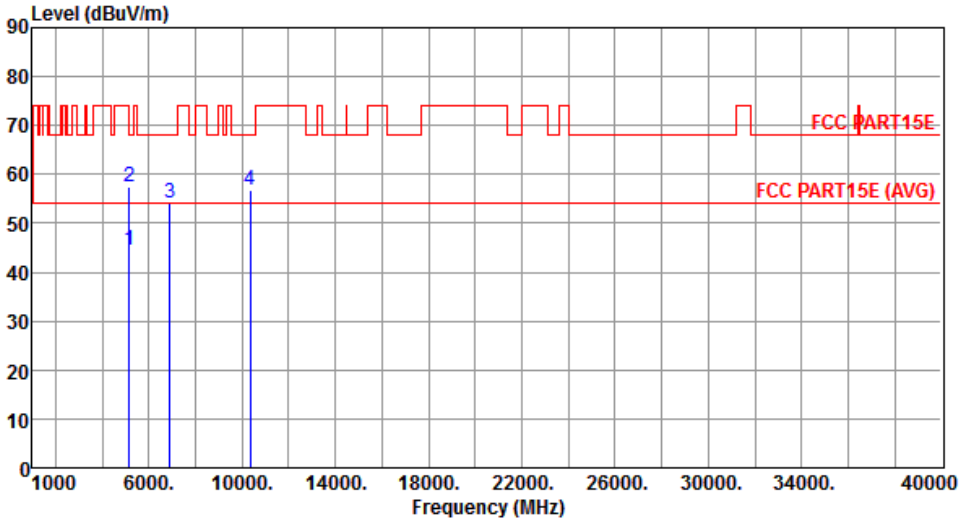
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	75.82	78.20	-2.38	70.07	5.75	Peak	---	---
2	5860.00	52.35	54.00	-1.65	46.59	5.76	Average	---	---
3	5860.00	72.43	74.00	-1.57	66.67	5.76	Peak	---	---
4	11650.00	49.11	54.00	-4.89	33.55	15.56	Average	---	---
5	11650.00	61.72	74.00	-12.28	46.16	15.56	Peak	---	---

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

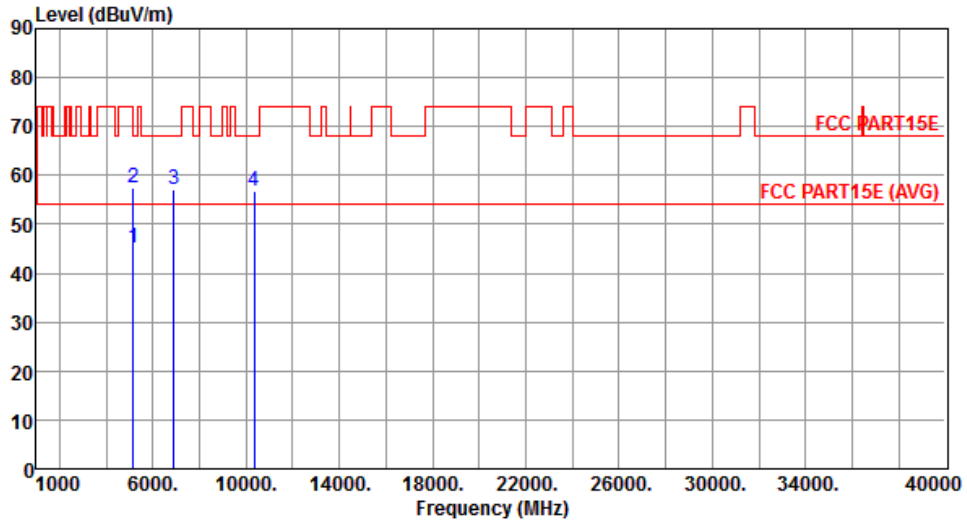
*Factor includes antenna factor , cable loss and amplifier gain

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

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180																																																							
Polarization	Horizontal	Test Configuration	1																																																							
																																																										
	<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>44.60</td> <td>54.00</td> <td>-9.40</td> <td>39.14</td> <td>5.46</td> <td>Average</td> <td>---</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>57.35</td> <td>74.00</td> <td>-16.65</td> <td>51.89</td> <td>5.46</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>6906.66</td> <td>54.19</td> <td>68.20</td> <td>-14.01</td> <td>45.78</td> <td>8.41</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>10360.00</td> <td>56.64</td> <td>68.20</td> <td>-11.56</td> <td>41.23</td> <td>15.41</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	5150.00	44.60	54.00	-9.40	39.14	5.46	Average	---	2	5150.00	57.35	74.00	-16.65	51.89	5.46	Peak	---	3	6906.66	54.19	68.20	-14.01	45.78	8.41	Peak	---	4	10360.00	56.64	68.20	-11.56	41.23	15.41	Peak	---			
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																		
1	5150.00	44.60	54.00	-9.40	39.14	5.46	Average	---																																																		
2	5150.00	57.35	74.00	-16.65	51.89	5.46	Peak	---																																																		
3	6906.66	54.19	68.20	-14.01	45.78	8.41	Peak	---																																																		
4	10360.00	56.64	68.20	-11.56	41.23	15.41	Peak	---																																																		
<p>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).</p>																																																										

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical	Test Configuration	1



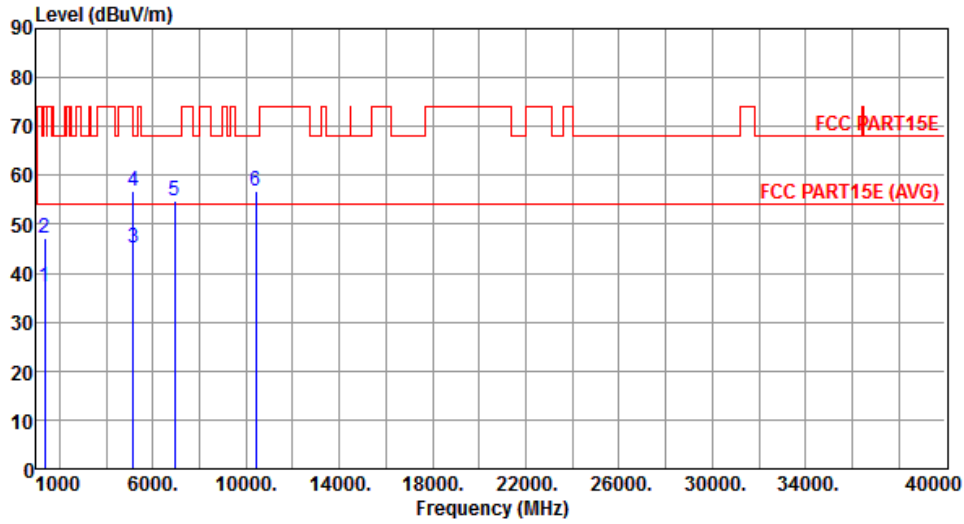
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.07	54.00	-8.93	39.61	5.46	Average	---	---
2	5150.00	57.52	74.00	-16.48	52.06	5.46	Peak	---	---
3	6906.66	57.17	68.20	-11.03	48.76	8.41	Peak	---	---
4	10360.00	56.88	68.20	-11.32	41.47	15.41	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	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal	Test Configuration	1



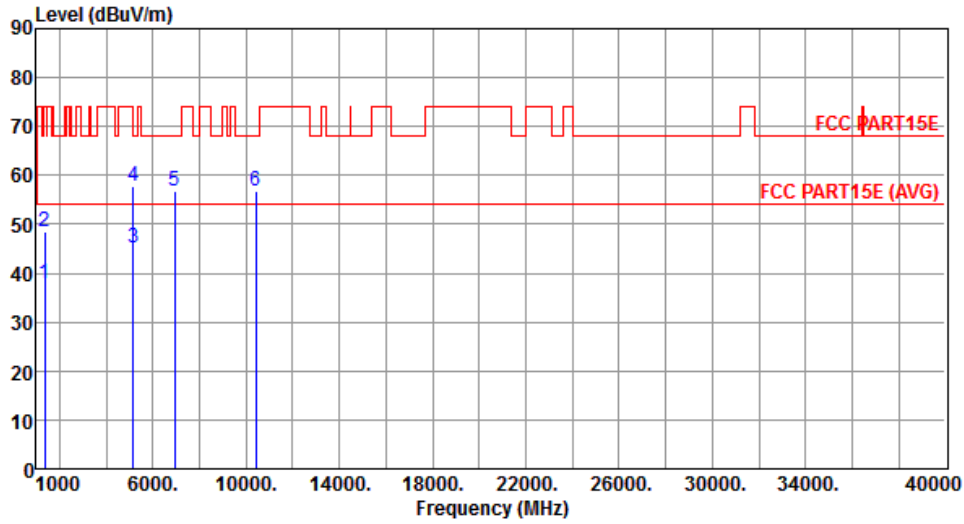
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1375.00	37.10	54.00	-16.90	44.52	-7.42	Average	---	---
2	1375.00	47.10	74.00	-26.90	54.52	-7.42	Peak	---	---
3	5150.00	45.03	54.00	-8.97	39.57	5.46	Average	---	---
4	5150.00	56.77	74.00	-17.23	51.31	5.46	Peak	---	---
5	6933.33	54.66	68.20	-13.54	46.21	8.45	Peak	---	---
6	10400.00	56.90	68.20	-11.30	41.35	15.55	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	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical	Test Configuration	1



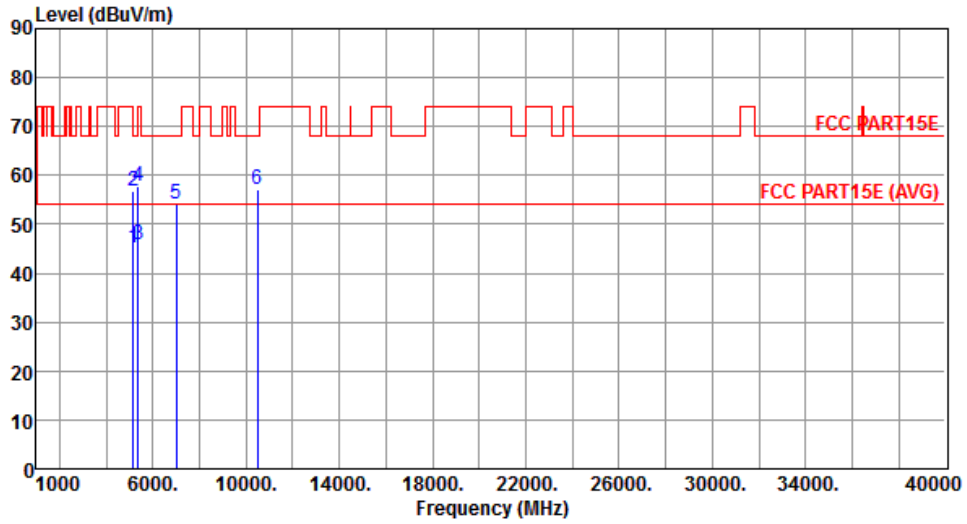
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1375.00	37.97	54.00	-16.03	45.39	-7.42	Average	---	---
2	1375.00	48.42	74.00	-25.58	55.84	-7.42	Peak	---	---
3	5150.00	45.11	54.00	-8.89	39.65	5.46	Average	---	---
4	5150.00	57.95	74.00	-16.05	52.49	5.46	Peak	---	---
5	6933.33	56.70	68.20	-11.50	48.25	8.45	Peak	---	---
6	10400.00	56.83	68.20	-11.37	41.28	15.55	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	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal	Test Configuration	1



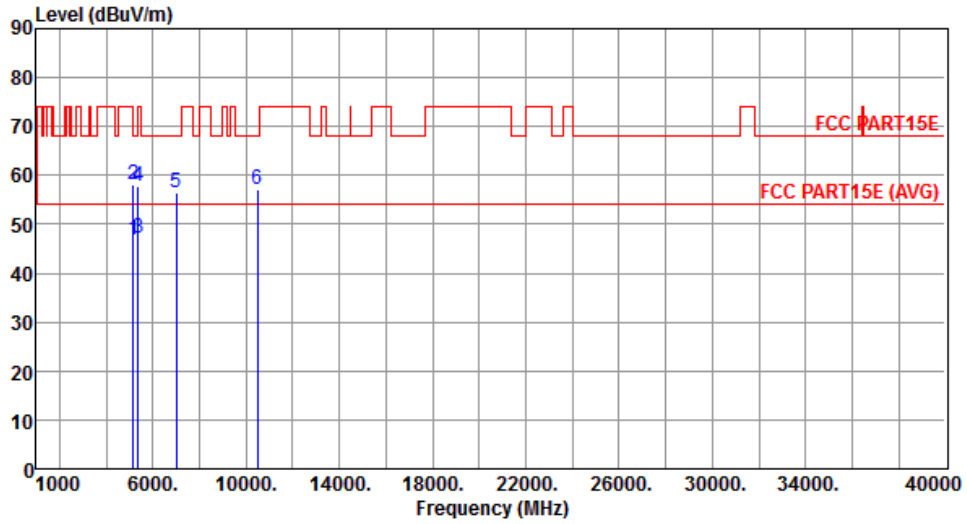
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.11	54.00	-8.89	39.65	5.46	Average	---	---
2	5150.00	56.84	74.00	-17.16	51.38	5.46	Peak	---	---
3	5350.00	46.00	54.00	-8.00	40.44	5.56	Average	---	---
4	5350.00	57.69	74.00	-16.31	52.13	5.56	Peak	---	---
5	6986.66	54.15	68.20	-14.05	45.64	8.51	Peak	---	---
6	10480.00	57.27	68.20	-10.93	41.41	15.86	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	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical	Test Configuration	1



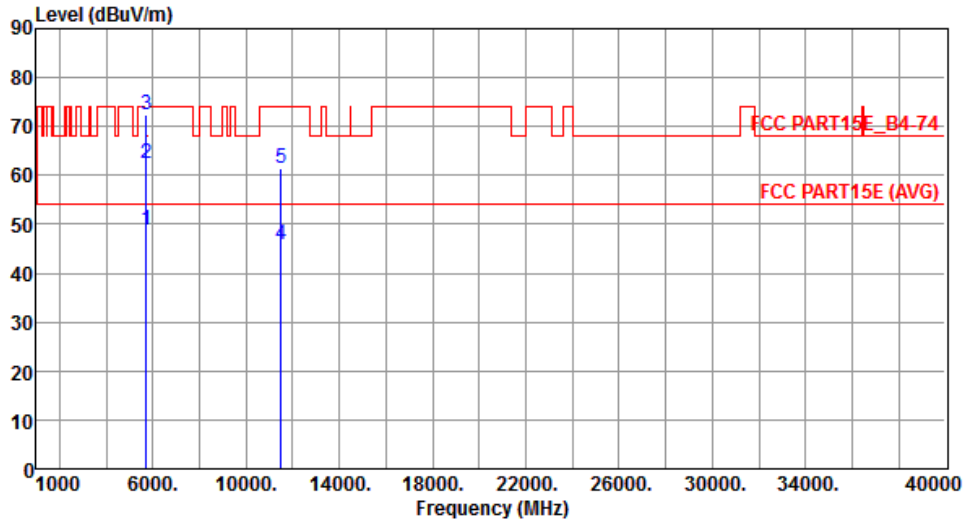
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.99	54.00	-7.01	41.53	5.46	Average	---	---
2	5150.00	58.10	74.00	-15.90	52.64	5.46	Peak	---	---
3	5350.00	47.11	54.00	-6.89	41.55	5.56	Average	---	---
4	5350.00	57.89	74.00	-16.11	52.33	5.56	Peak	---	---
5	6986.66	56.34	68.20	-11.86	47.83	8.51	Peak	---	---
6	10480.00	57.10	68.20	-11.10	41.24	15.86	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	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal	Test Configuration	1



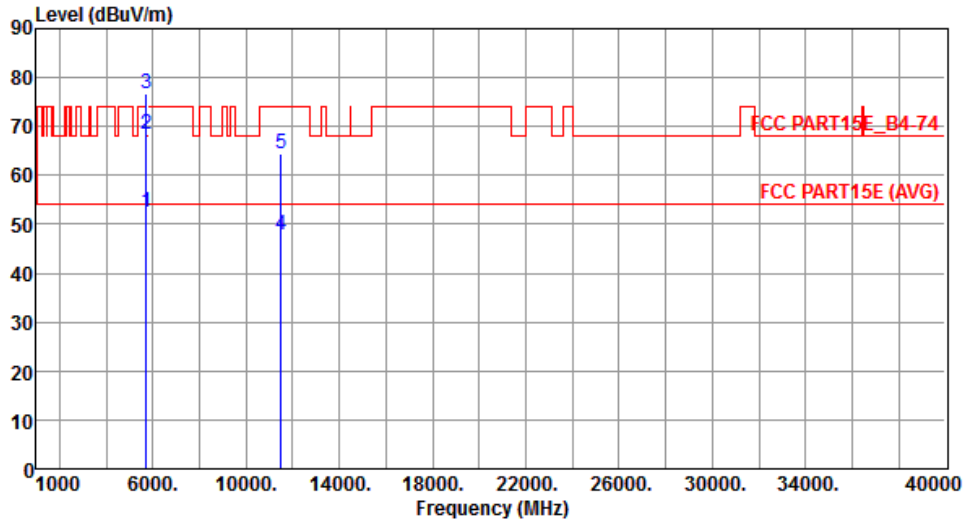
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	48.97	54.00	-5.03	43.32	5.65	Average	---	---
2	5715.00	62.34	74.00	-11.66	56.69	5.65	Peak	---	---
3	5725.00	72.25	78.20	-5.95	66.61	5.64	Peak	---	---
4	11490.00	45.94	54.00	-8.06	30.01	15.93	Average	---	---
5	11490.00	61.54	74.00	-12.46	45.61	15.93	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	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical	Test Configuration	1



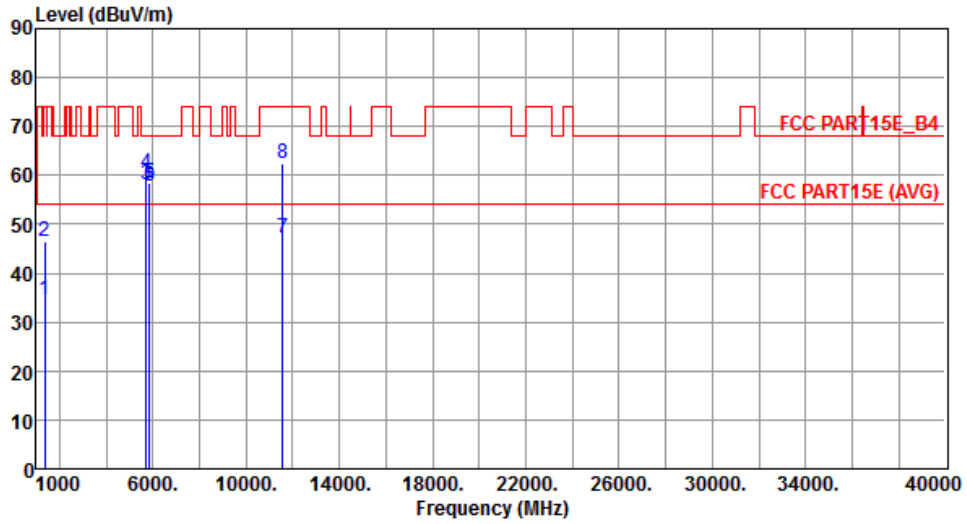
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	52.36	54.00	-1.64	46.71	5.65	Average	---	---
2	5715.00	68.27	74.00	-5.73	62.62	5.65	Peak	---	---
3	5725.00	76.68	78.20	-1.52	71.04	5.64	Peak	---	---
4	11490.00	47.73	54.00	-6.27	31.80	15.93	Average	---	---
5	11490.00	64.40	74.00	-9.60	48.47	15.93	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	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	1



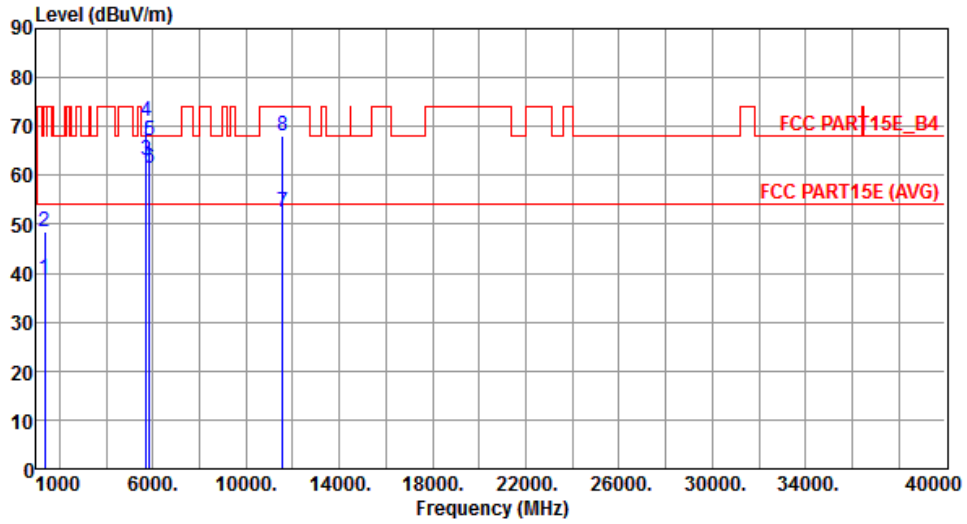
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1375.00	34.65	54.00	-19.35	42.07	-7.42	Average	---	---
2	1375.00	46.47	74.00	-27.53	53.89	-7.42	Peak	---	---
3	5715.00	58.06	68.20	-10.14	52.41	5.65	Peak	---	---
4	5725.00	60.37	78.20	-17.83	54.73	5.64	Peak	---	---
5	5850.00	58.37	78.20	-19.83	52.62	5.75	Peak	---	---
6	5860.00	57.94	68.20	-10.26	52.18	5.76	Peak	---	---
7	11570.00	47.32	54.00	-6.68	31.55	15.77	Average	---	---
8	11570.00	62.48	74.00	-11.52	46.71	15.77	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	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	1



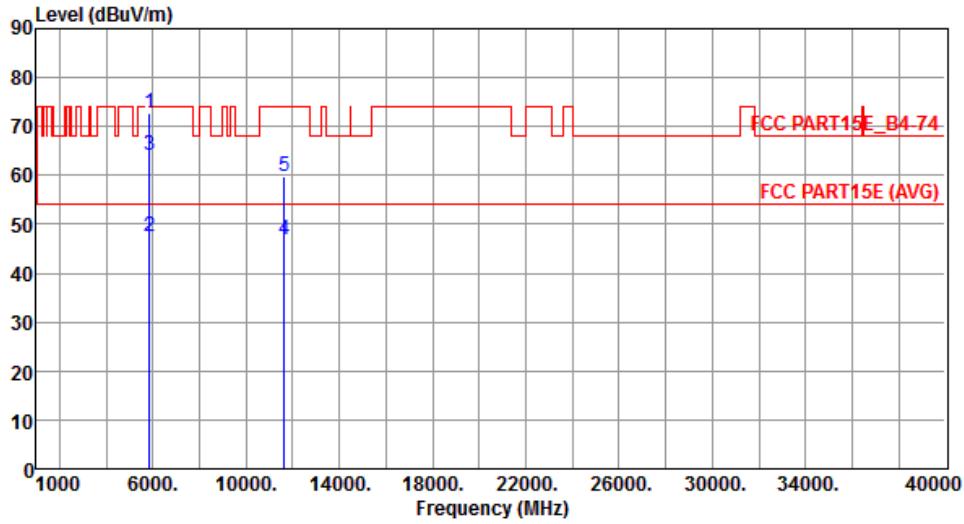
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1375.00	38.91	54.00	-15.09	46.33	-7.42	Average	---	---
2	1375.00	48.43	74.00	-25.57	55.85	-7.42	Peak	---	---
3	5715.00	63.05	68.20	-5.15	57.40	5.65	Peak	---	---
4	5725.00	71.08	78.20	-7.12	65.44	5.64	Peak	---	---
5	5850.00	67.12	78.20	-11.08	61.37	5.75	Peak	---	---
6	5860.00	61.53	68.20	-6.67	55.77	5.76	Peak	---	---
7	11570.00	52.43	54.00	-1.57	36.66	15.77	Average	---	---
8	11570.00	67.96	74.00	-6.04	52.19	15.77	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	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	1



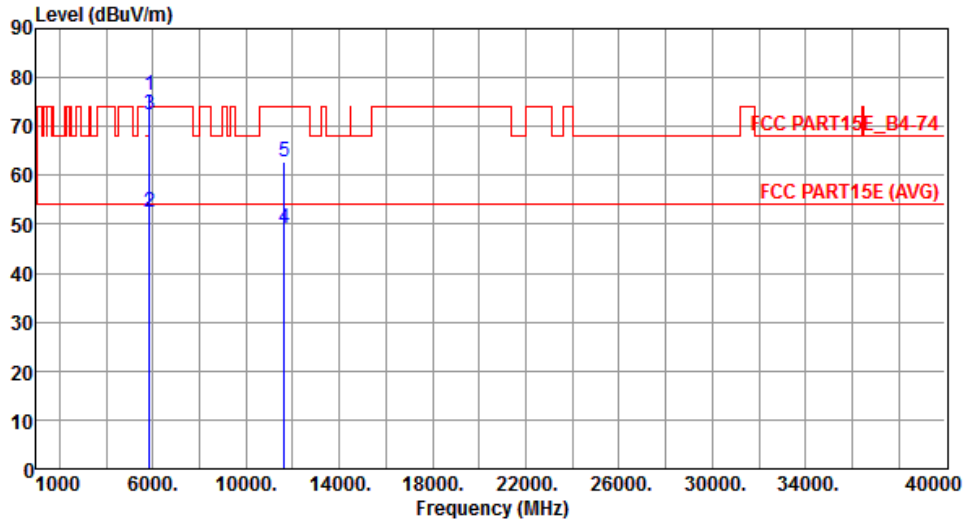
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	72.86	78.20	-5.34	67.11	5.75	Peak	---	---
2	5860.00	47.59	54.00	-6.41	41.83	5.76	Average	---	---
3	5860.00	64.07	74.00	-9.93	58.31	5.76	Peak	---	---
4	11650.00	46.68	54.00	-7.32	31.12	15.56	Average	---	---
5	11650.00	59.72	74.00	-14.28	44.16	15.56	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	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical	Test Configuration	1



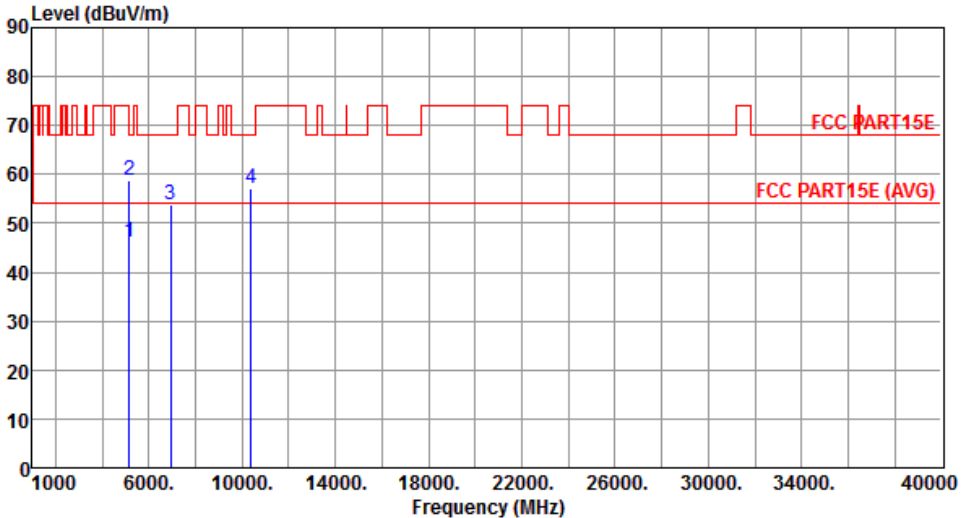
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	76.39	78.20	-1.81	70.64	5.75	Peak	---	---
2	5860.00	52.44	54.00	-1.56	46.68	5.76	Average	---	---
3	5860.00	72.49	74.00	-1.51	66.73	5.76	Peak	---	---
4	11650.00	49.27	54.00	-4.73	33.71	15.56	Average	---	---
5	11650.00	62.92	74.00	-11.08	47.36	15.56	Peak	---	---

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

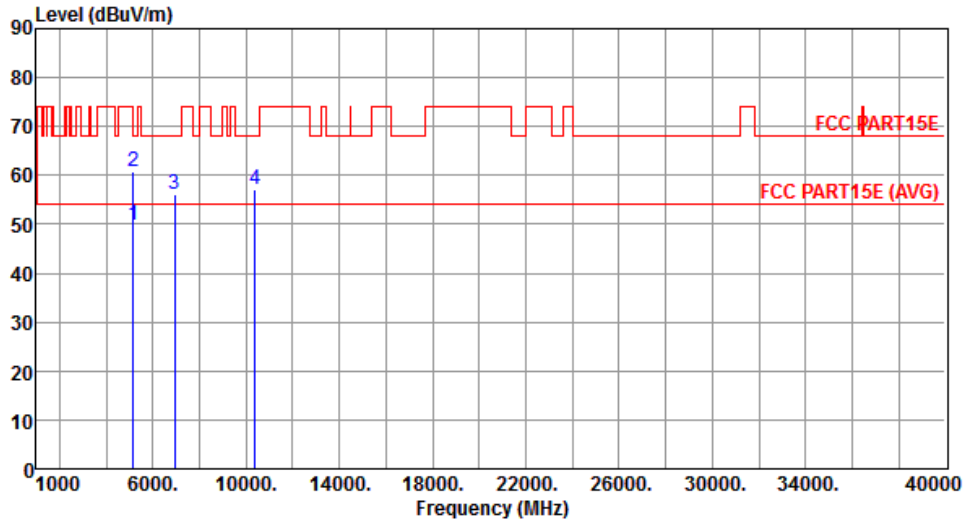
*Factor includes antenna factor , cable loss and amplifier gain

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

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190																																																						
Polarization	Horizontal	Test Configuration	1																																																						
																																																									
	<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>46.02</td> <td>54.00</td> <td>-7.98</td> <td>40.56</td> <td>5.46</td> <td>Average</td> <td>---</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>58.91</td> <td>74.00</td> <td>-15.09</td> <td>53.45</td> <td>5.46</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>6920.00</td> <td>53.83</td> <td>68.20</td> <td>-14.37</td> <td>45.40</td> <td>8.43</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>10380.00</td> <td>57.16</td> <td>68.20</td> <td>-11.04</td> <td>41.68</td> <td>15.48</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg	MHz	dBuV/m	dBuV/m	dB	dBuV	dB				1	5150.00	46.02	54.00	-7.98	40.56	5.46	Average	---	2	5150.00	58.91	74.00	-15.09	53.45	5.46	Peak	---	3	6920.00	53.83	68.20	-14.37	45.40	8.43	Peak	---	4	10380.00	57.16	68.20	-11.04	41.68	15.48	Peak	---		
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg																																																	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB																																																				
1	5150.00	46.02	54.00	-7.98	40.56	5.46	Average	---																																																	
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3	6920.00	53.83	68.20	-14.37	45.40	8.43	Peak	---																																																	
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Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical	Test Configuration	1



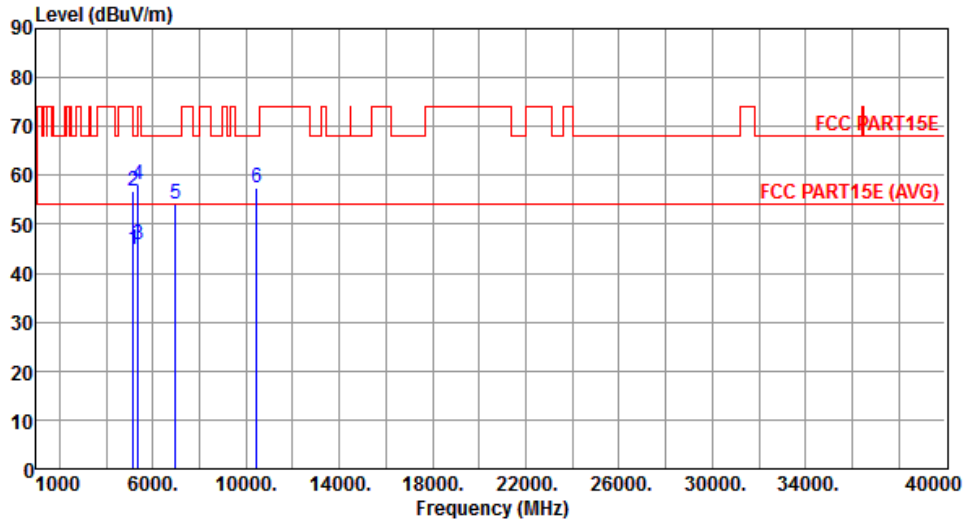
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.81	54.00	-4.19	44.35	5.46	Average	---	---
2	5150.00	60.84	74.00	-13.16	55.38	5.46	Peak	---	---
3	6920.00	56.08	68.20	-12.12	47.65	8.43	Peak	---	---
4	10380.00	57.13	68.20	-11.07	41.65	15.48	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



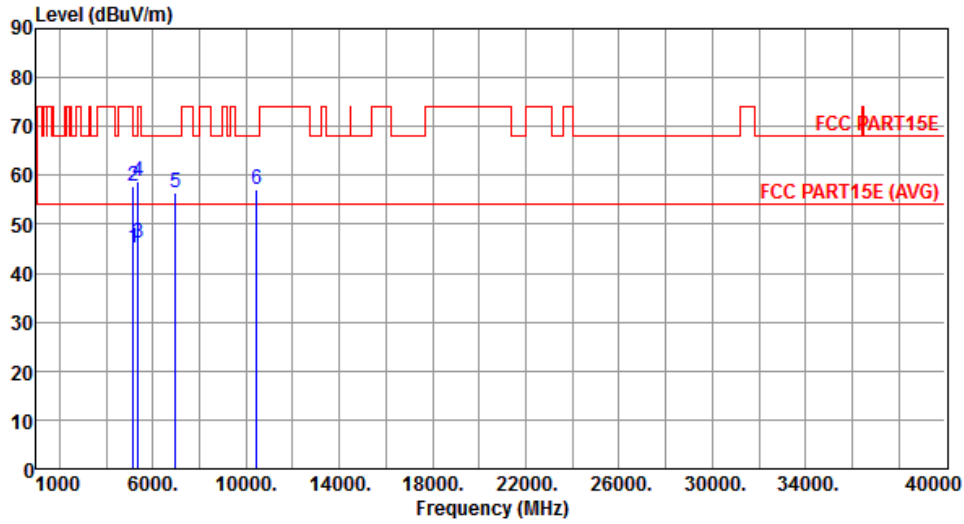
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.78	54.00	-9.22	39.32	5.46	Average	---	---
2	5150.00	56.80	74.00	-17.20	51.34	5.46	Peak	---	---
3	5350.00	45.95	54.00	-8.05	40.39	5.56	Average	---	---
4	5350.00	58.20	74.00	-15.80	52.64	5.56	Peak	---	---
5	6973.33	54.14	68.20	-14.06	45.64	8.50	Peak	---	---
6	10460.00	57.30	68.20	-10.90	41.52	15.78	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



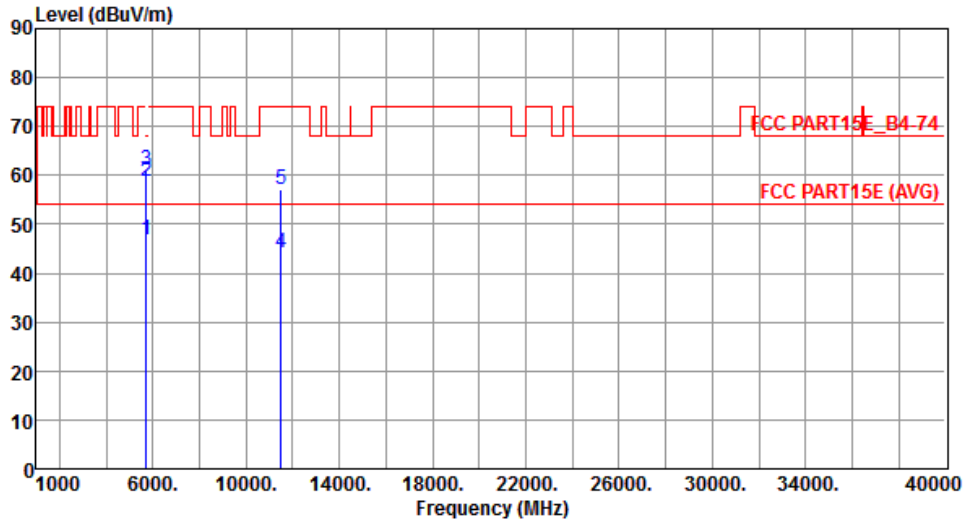
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.22	54.00	-8.78	39.76	5.46	Average	---	---
2	5150.00	57.80	74.00	-16.20	52.34	5.46	Peak	---	---
3	5350.00	46.25	54.00	-7.75	40.69	5.56	Average	---	---
4	5350.00	58.79	74.00	-15.21	53.23	5.56	Peak	---	---
5	6973.33	56.62	68.20	-11.58	48.12	8.50	Peak	---	---
6	10460.00	57.15	68.20	-11.05	41.37	15.78	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)	5755
Polarization	Horizontal	Test Configuration	1



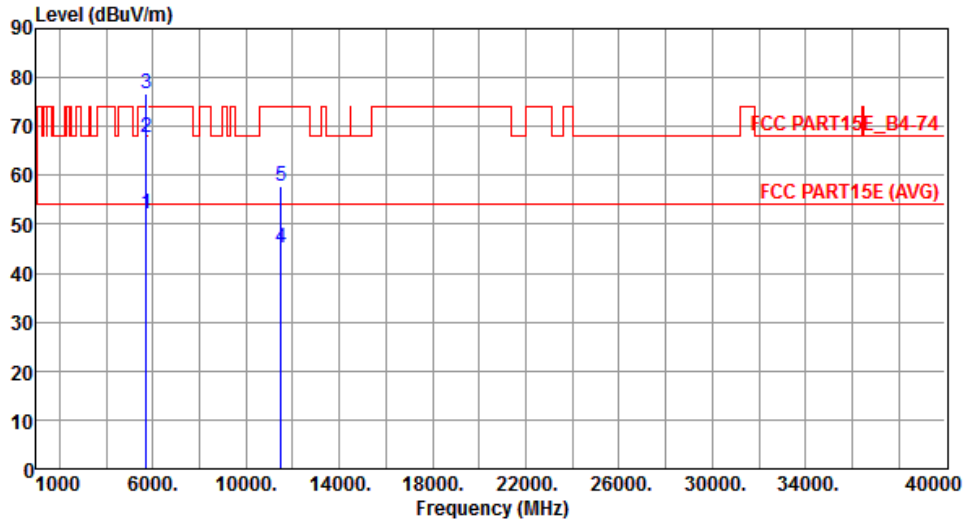
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	46.97	54.00	-7.03	41.32	5.65	Average	---	---
2	5715.00	58.75	74.00	-15.25	53.10	5.65	Peak	---	---
3	5725.00	60.99	78.20	-17.21	55.35	5.64	Peak	---	---
4	11510.00	44.31	54.00	-9.69	28.39	15.92	Average	---	---
5	11510.00	57.11	74.00	-16.89	41.19	15.92	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)	5755
Polarization	Vertical	Test Configuration	1



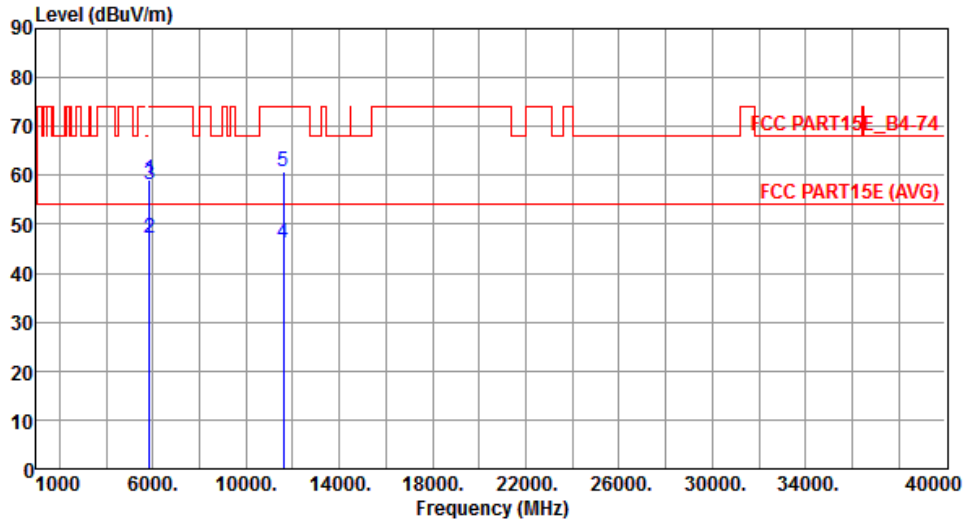
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	52.24	54.00	-1.76	46.59	5.65	Average	---	---
2	5715.00	67.68	74.00	-6.32	62.03	5.65	Peak	---	---
3	5725.00	76.59	78.20	-1.61	70.95	5.64	Peak	---	---
4	11510.00	45.10	54.00	-8.90	29.18	15.92	Average	---	---
5	11510.00	57.65	74.00	-16.35	41.73	15.92	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)	5795
Polarization	Horizontal	Test Configuration	1



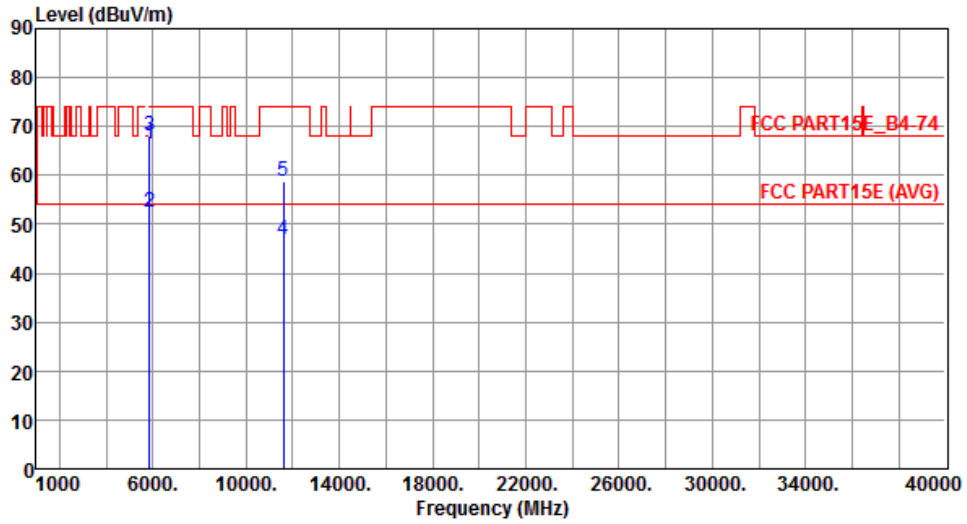
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	59.26	78.20	-18.94	53.51	5.75	Peak	---	---
2	5860.00	47.12	54.00	-6.88	41.36	5.76	Average	---	---
3	5860.00	58.27	74.00	-15.73	52.51	5.76	Peak	---	---
4	11590.00	46.27	54.00	-7.73	30.56	15.71	Average	---	---
5	11590.00	60.94	74.00	-13.06	45.23	15.71	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)	5795
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	5850.00	66.58	78.20	-11.62	60.83	5.75	Peak	---	---
2	5860.00	52.49	54.00	-1.51	46.73	5.76	Average	---	---
3	5860.00	68.15	74.00	-5.85	62.39	5.76	Peak	---	---
4	11590.00	46.95	54.00	-7.05	31.24	15.71	Average	---	---
5	11590.00	58.67	74.00	-15.33	42.96	15.71	Peak	---	---

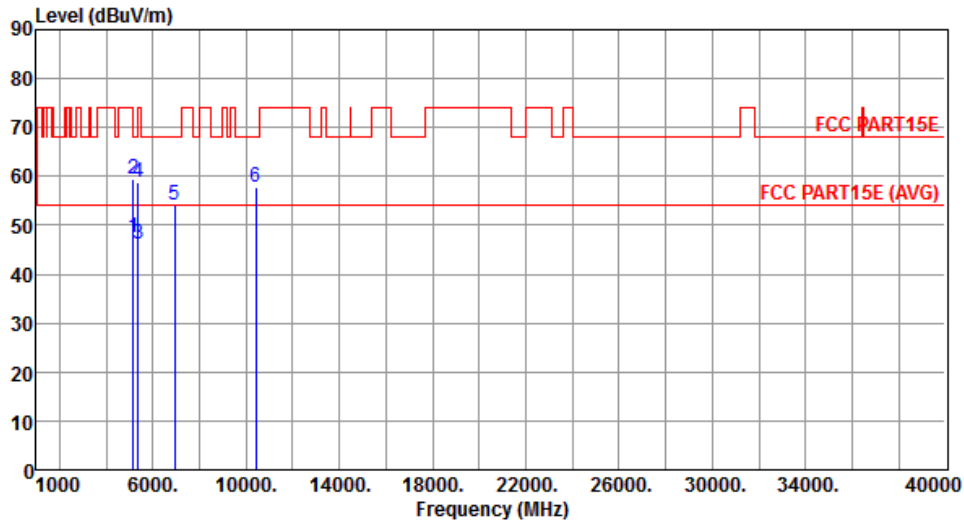
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

3.5.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

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



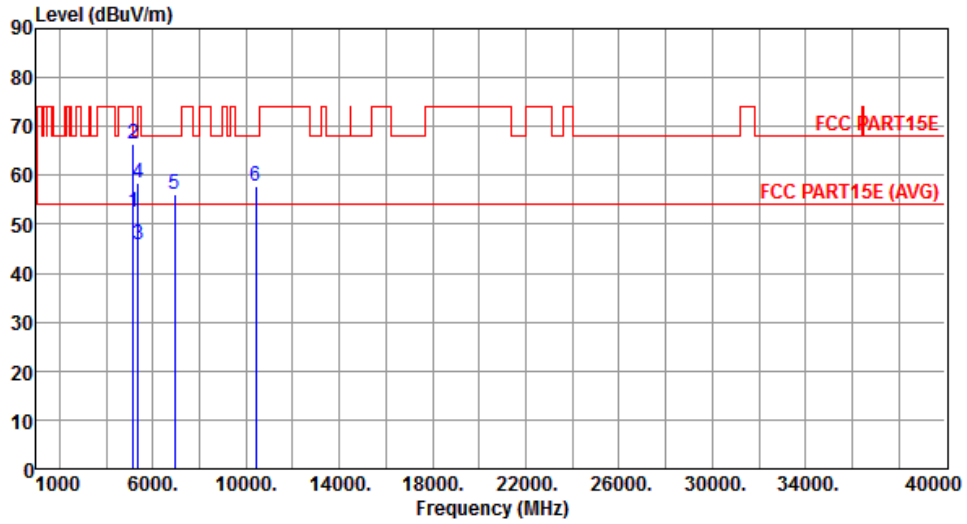
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.53	54.00	-6.47	42.07	5.46	Average	---	---
2	5150.00	59.35	74.00	-14.65	53.89	5.46	Peak	---	---
3	5350.00	46.24	54.00	-7.76	40.68	5.56	Average	---	---
4	5350.00	58.82	74.00	-15.18	53.26	5.56	Peak	---	---
5	6946.66	54.03	68.20	-14.17	45.57	8.46	Peak	---	---
6	10420.00	57.84	68.20	-10.36	42.21	15.63	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	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical	Test Configuration	1



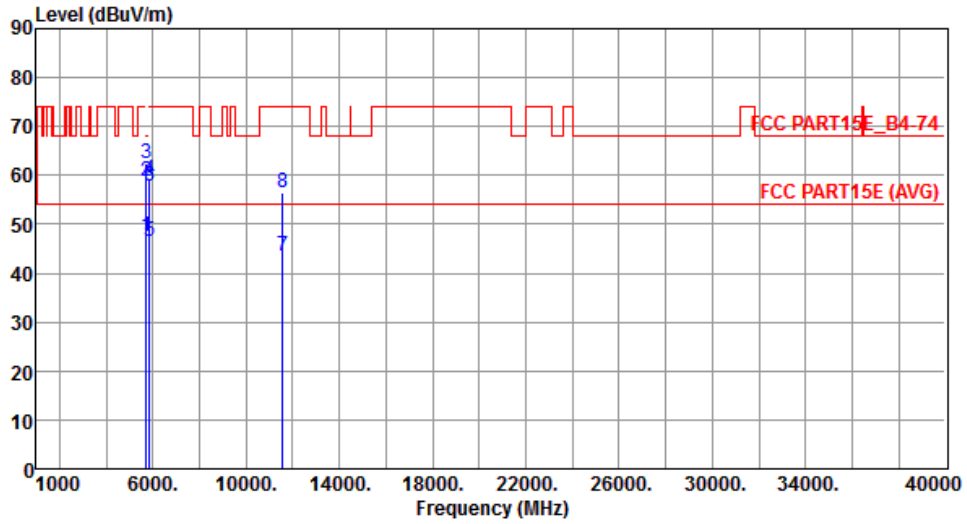
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.49	54.00	-1.51	47.03	5.46	Average	---	---
2	5150.00	66.48	74.00	-7.52	61.02	5.46	Peak	---	---
3	5350.00	46.00	54.00	-8.00	40.44	5.56	Average	---	---
4	5350.00	58.35	74.00	-15.65	52.79	5.56	Peak	---	---
5	6946.66	56.14	68.20	-12.06	47.68	8.46	Peak	---	---
6	10420.00	57.81	68.20	-10.39	42.18	15.63	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	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal	Test Configuration	1



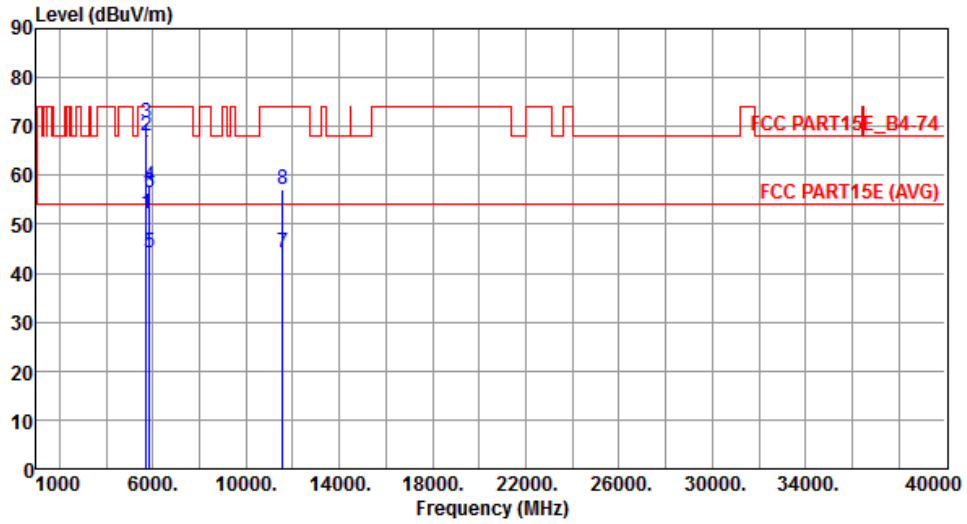
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	47.57	54.00	-6.43	41.92	5.65	Average	---	---
2	5715.00	58.94	74.00	-15.06	53.29	5.65	Peak	---	---
3	5725.00	62.59	78.20	-15.61	56.95	5.64	Peak	---	---
4	5850.00	59.06	78.20	-19.14	53.31	5.75	Peak	---	---
5	5860.00	46.54	54.00	-7.46	40.78	5.76	Average	---	---
6	5860.00	57.90	74.00	-16.10	52.14	5.76	Peak	---	---
7	11550.00	43.40	54.00	-10.60	27.59	15.81	Average	---	---
8	11550.00	56.52	74.00	-17.48	40.71	15.81	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).

Modulation	VHT80	Test Freq. (MHz)	5775
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	5715.00	52.30	54.00	-1.70	46.65	5.65	Average	---	---
2	5715.00	68.21	74.00	-5.79	62.56	5.65	Peak	---	---
3	5725.00	70.62	78.20	-7.58	64.98	5.64	Peak	---	---
4	5850.00	57.79	78.20	-20.41	52.04	5.75	Peak	---	---
5	5860.00	44.25	54.00	-9.75	38.49	5.76	Average	---	---
6	5860.00	56.57	74.00	-17.43	50.81	5.76	Peak	---	---
7	11550.00	44.15	54.00	-9.85	28.34	15.81	Average	---	---
8	11550.00	57.10	74.00	-16.90	41.29	15.81	Peak	---	---

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

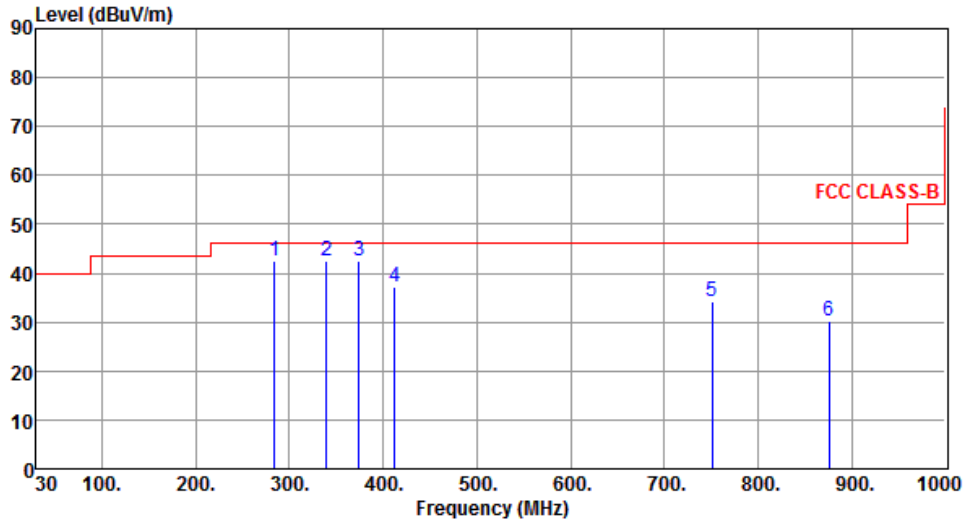
*Factor includes antenna factor , cable loss and amplifier gain

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

PIFA antenna

3.5.10 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5190
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	284.14	42.55	46.00	-3.45	58.87	-16.32	QP	---	---
2	339.43	42.50	46.00	-3.50	57.59	-15.09	Peak	---	---
3	374.35	42.36	46.00	-3.64	56.58	-14.22	Peak	---	---
4	412.18	37.26	46.00	-8.74	50.54	-13.28	Peak	---	---
5	750.71	34.28	46.00	-11.72	41.38	-7.10	Peak	---	---
6	875.84	30.36	46.00	-15.64	36.11	-5.75	Peak	---	---

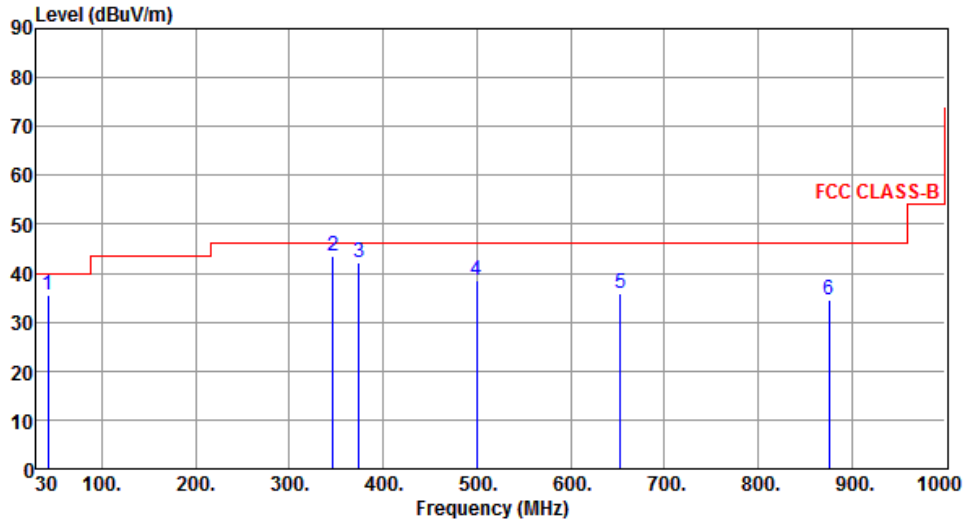
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	VHT40	Test Freq. (MHz)	5190
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	42.61	35.57	40.00	-4.43	52.03	-16.46	Peak	---	---
2	346.22	43.57	46.00	-2.43	58.50	-14.93	QP	---	---
3	374.35	42.20	46.00	-3.80	56.42	-14.22	Peak	---	---
4	499.48	38.44	46.00	-7.56	49.86	-11.42	Peak	---	---
5	652.74	35.86	46.00	-10.14	44.66	-8.80	Peak	---	---
6	875.84	34.44	46.00	-11.56	40.19	-5.75	Peak	---	---

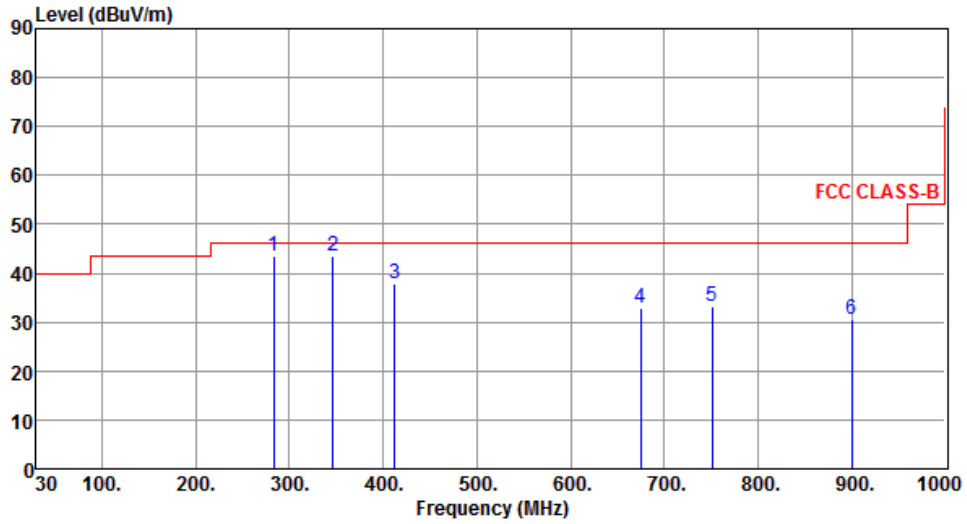
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	11a	Test Freq. (MHz)	5785
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	283.17	43.47	46.00	-2.53	59.80	-16.33	QP	---	---
2	346.22	43.55	46.00	-2.45	58.48	-14.93	QP	---	---
3	412.18	37.92	46.00	-8.08	51.20	-13.28	Peak	---	---
4	675.05	32.80	46.00	-13.20	41.24	-8.44	Peak	---	---
5	750.71	33.14	46.00	-12.86	40.24	-7.10	Peak	---	---
6	900.09	30.62	46.00	-15.38	35.95	-5.33	Peak	---	---

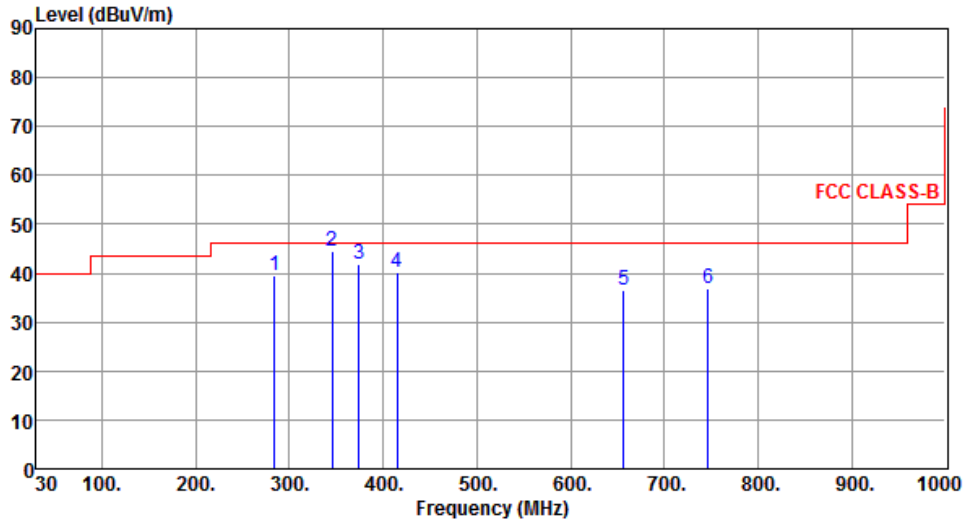
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*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	11a	Test Freq. (MHz)	5785
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	284.14	39.51	46.00	-6.49	55.83	-16.32	Peak	---	---
2	345.25	44.48	46.00	-1.52	59.43	-14.95	QP	---	---
3	374.35	41.95	46.00	-4.05	56.17	-14.22	Peak	---	---
4	415.09	40.18	46.00	-5.82	53.39	-13.21	Peak	---	---
5	656.62	36.46	46.00	-9.54	45.19	-8.73	Peak	---	---
6	746.83	36.79	46.00	-9.21	43.95	-7.16	Peak	---	---

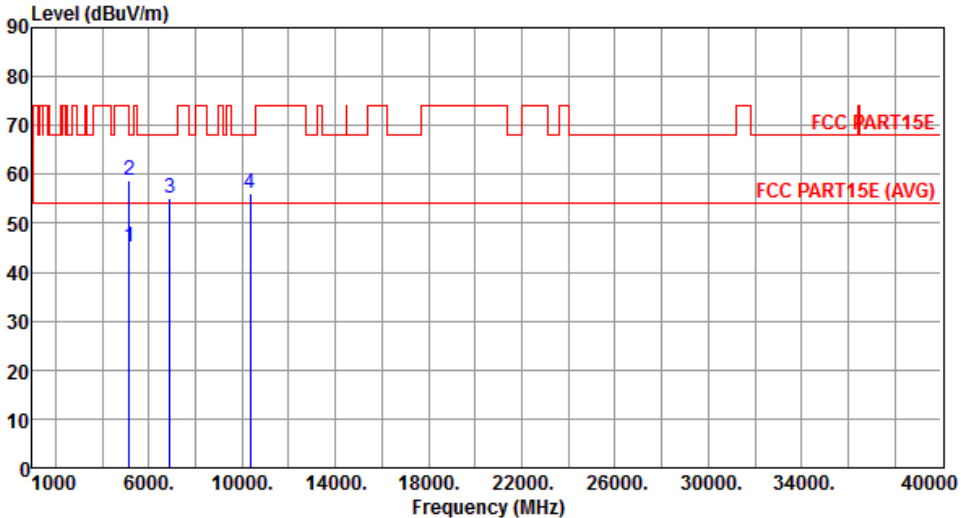
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

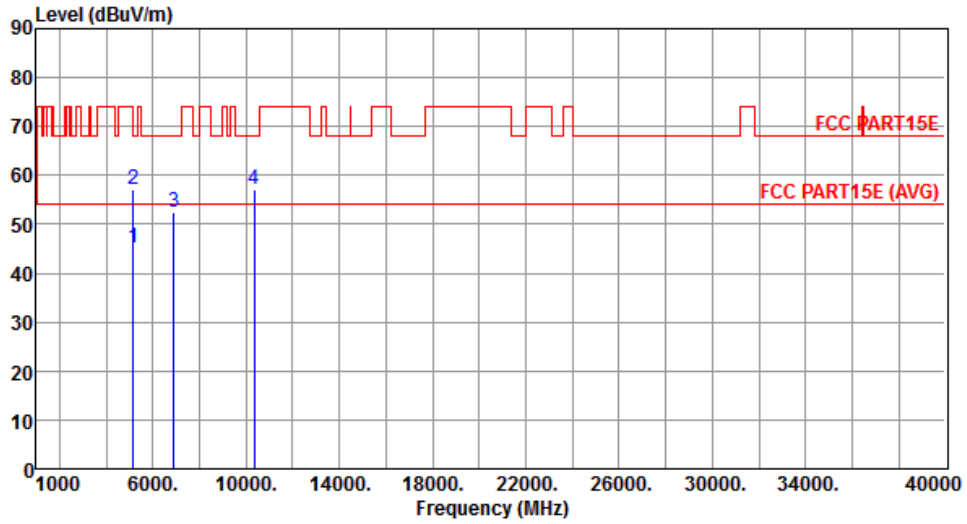
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

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

Modulation	11a	Test Freq. (MHz)	5180																																																							
Polarization	Horizontal	Test Configuration	2																																																							
																																																										
	<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>45.33</td> <td>54.00</td> <td>-8.67</td> <td>39.87</td> <td>5.46</td> <td>Average</td> <td>---</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>58.78</td> <td>74.00</td> <td>-15.22</td> <td>53.32</td> <td>5.46</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>6906.66</td> <td>55.21</td> <td>68.20</td> <td>-12.99</td> <td>46.80</td> <td>8.41</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>10360.00</td> <td>56.12</td> <td>68.20</td> <td>-12.08</td> <td>40.71</td> <td>15.41</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	5150.00	45.33	54.00	-8.67	39.87	5.46	Average	---	2	5150.00	58.78	74.00	-15.22	53.32	5.46	Peak	---	3	6906.66	55.21	68.20	-12.99	46.80	8.41	Peak	---	4	10360.00	56.12	68.20	-12.08	40.71	15.41	Peak	---			
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																		
1	5150.00	45.33	54.00	-8.67	39.87	5.46	Average	---																																																		
2	5150.00	58.78	74.00	-15.22	53.32	5.46	Peak	---																																																		
3	6906.66	55.21	68.20	-12.99	46.80	8.41	Peak	---																																																		
4	10360.00	56.12	68.20	-12.08	40.71	15.41	Peak	---																																																		
<p>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).</p>																																																										

Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical	Test Configuration	2



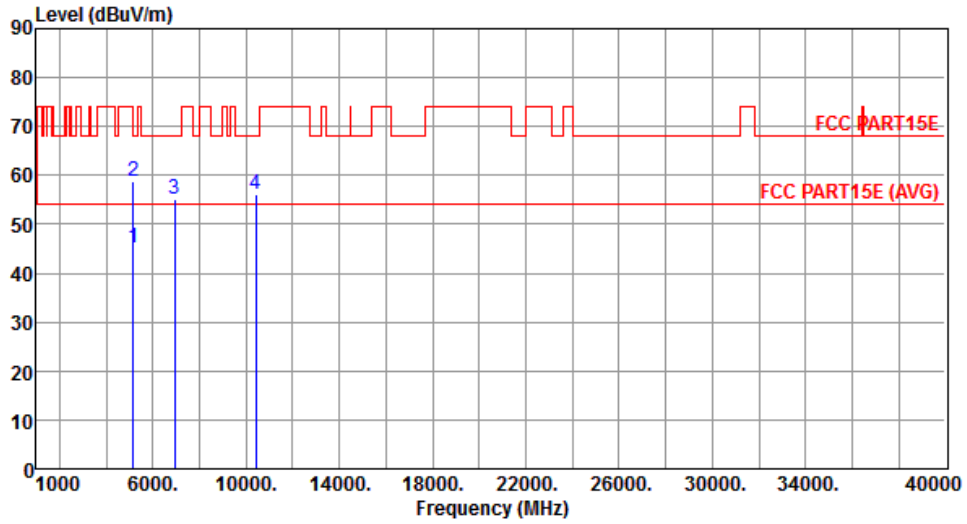
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.31	54.00	-8.69	39.85	5.46	Average	---	---
2	5150.00	57.18	74.00	-16.82	51.72	5.46	Peak	---	---
3	6906.66	52.39	68.20	-15.81	43.98	8.41	Peak	---	---
4	10360.00	56.99	68.20	-11.21	41.58	15.41	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	2



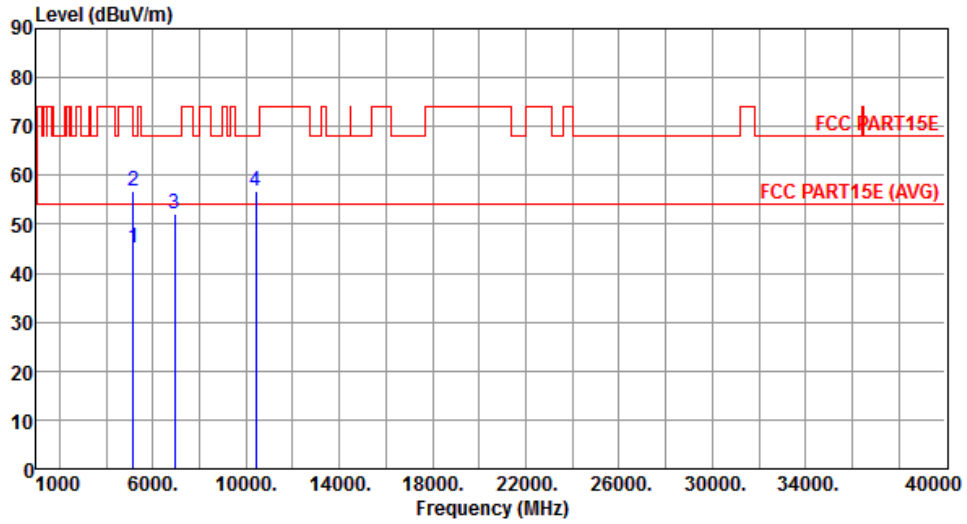
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.02	54.00	-8.98	39.56	5.46	Average	---	---
2	5150.00	58.71	74.00	-15.29	53.25	5.46	Peak	---	---
3	6933.33	55.02	68.20	-13.18	46.57	8.45	Peak	---	---
4	10400.00	56.09	68.20	-12.11	40.54	15.55	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	2



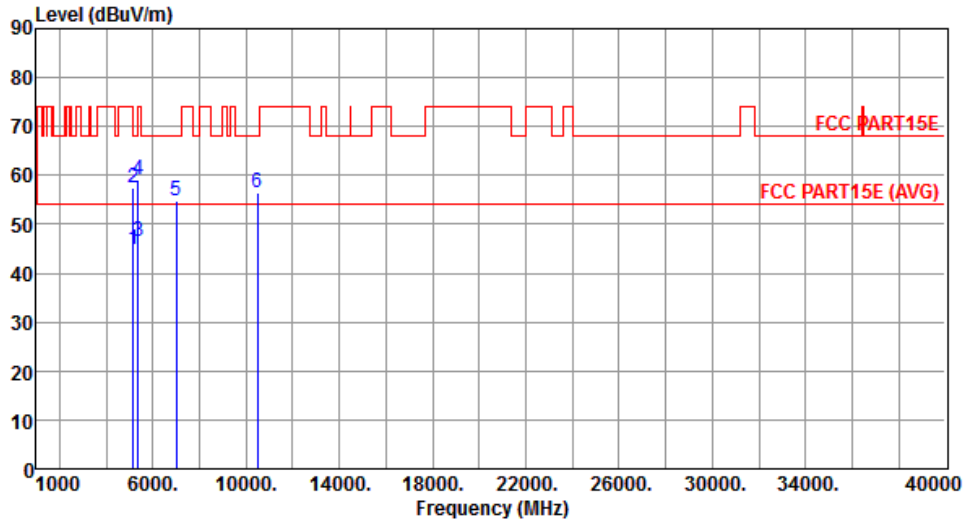
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.11	54.00	-8.89	39.65	5.46	Average	---	---
2	5150.00	56.84	74.00	-17.16	51.38	5.46	Peak	---	---
3	6933.33	52.02	68.20	-16.18	43.57	8.45	Peak	---	---
4	10400.00	56.81	68.20	-11.39	41.26	15.55	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	2



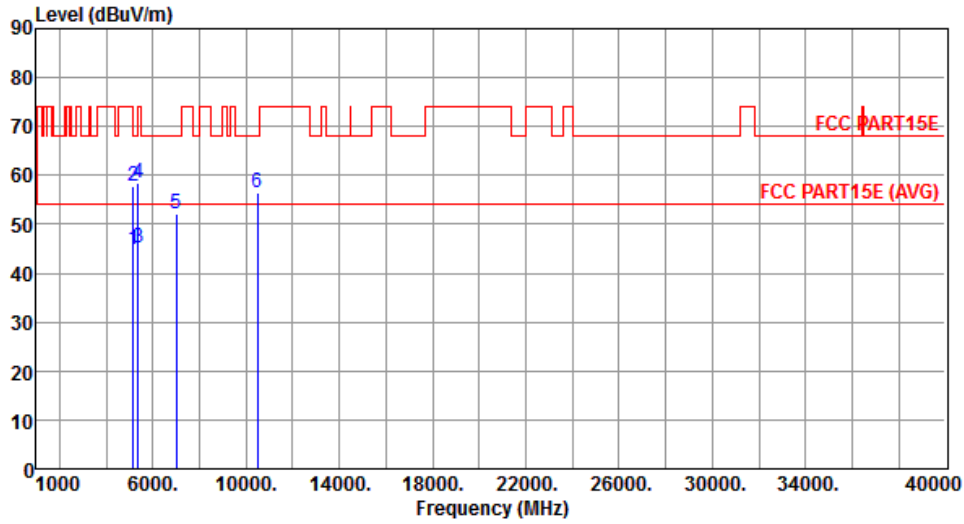
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.98	54.00	-9.02	39.52	5.46	Average	---	---
2	5150.00	57.36	74.00	-16.64	51.90	5.46	Peak	---	---
3	5350.00	46.52	54.00	-7.48	40.96	5.56	Average	---	---
4	5350.00	59.03	74.00	-14.97	53.47	5.56	Peak	---	---
5	6986.66	54.93	68.20	-13.27	46.42	8.51	Peak	---	---
6	10480.00	56.29	68.20	-11.91	40.43	15.86	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	2



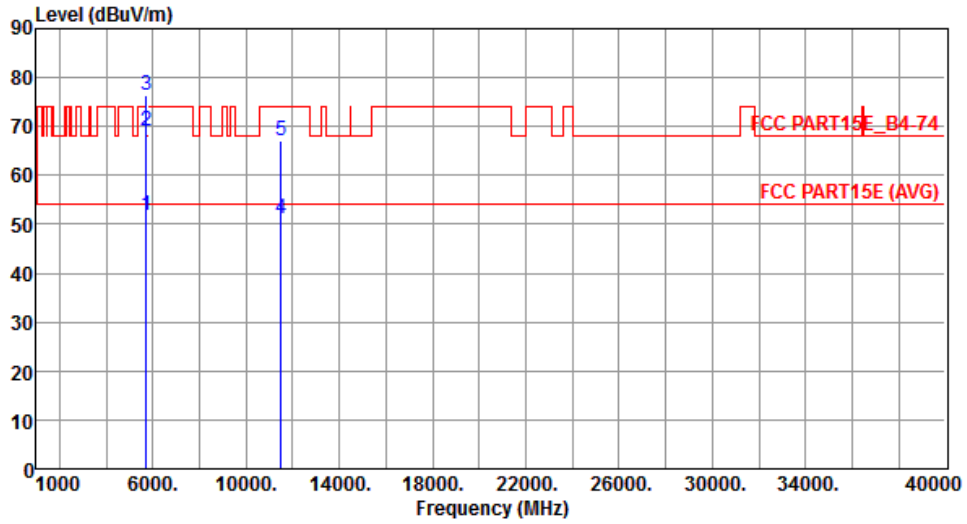
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.84	54.00	-9.16	39.38	5.46	Average	---	---
2	5150.00	57.77	74.00	-16.23	52.31	5.46	Peak	---	---
3	5350.00	45.08	54.00	-8.92	39.52	5.56	Average	---	---
4	5350.00	58.49	74.00	-15.51	52.93	5.56	Peak	---	---
5	6986.66	52.07	68.20	-16.13	43.56	8.51	Peak	---	---
6	10480.00	56.38	68.20	-11.82	40.52	15.86	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)	5745
Polarization	Horizontal	Test Configuration	2



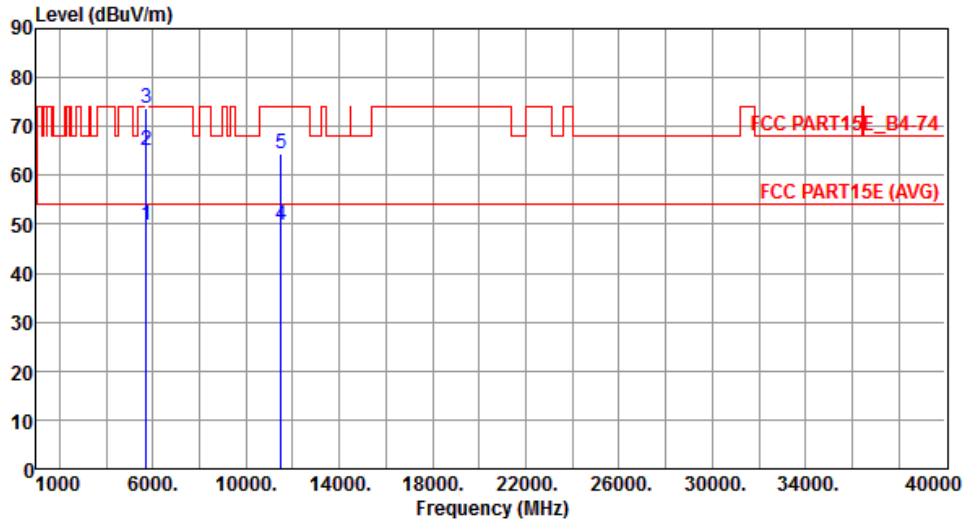
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	51.95	54.00	-2.05	46.30	5.65	Average	---	---
2	5715.00	69.00	74.00	-5.00	63.35	5.65	Peak	---	---
3	5725.00	76.32	78.20	-1.88	70.68	5.64	Peak	---	---
4	11490.00	51.19	54.00	-2.81	35.26	15.93	Average	---	---
5	11490.00	67.24	74.00	-6.76	51.31	15.93	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)	5745
Polarization	Vertical	Test Configuration	2



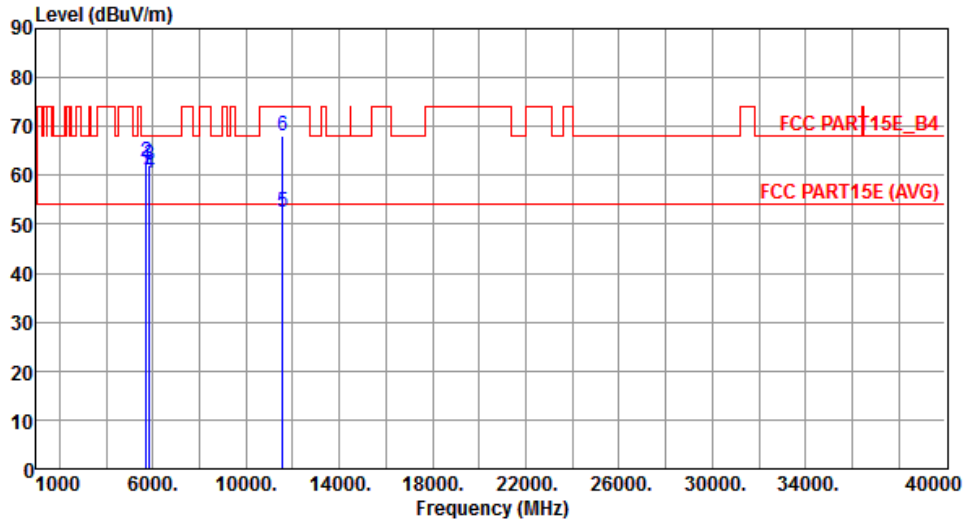
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	49.90	54.00	-4.10	44.25	5.65	Average	---	---
2	5715.00	65.13	74.00	-8.87	59.48	5.65	Peak	---	---
3	5725.00	73.77	78.20	-4.43	68.13	5.64	Peak	---	---
4	11490.00	49.79	54.00	-4.21	33.86	15.93	Average	---	---
5	11490.00	64.46	74.00	-9.54	48.53	15.93	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)	5785
Polarization	Horizontal	Test Configuration	2



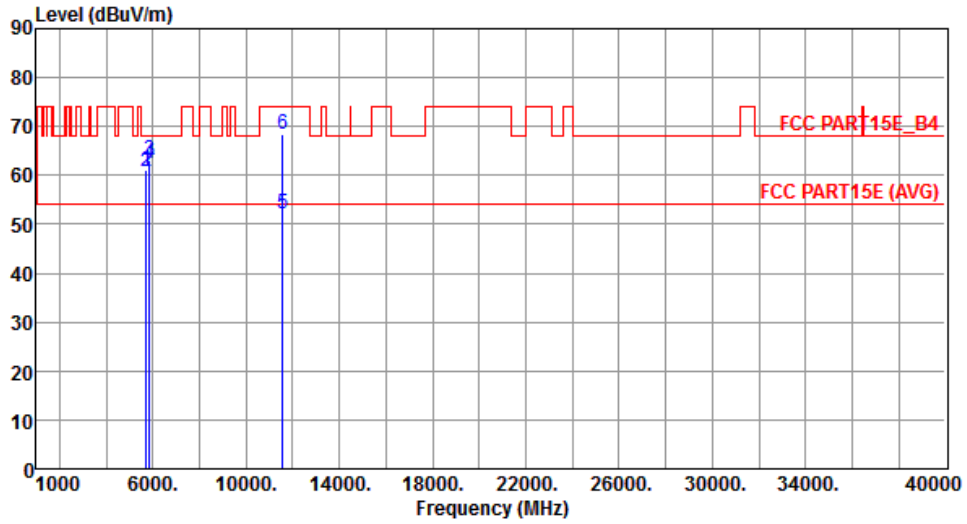
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	61.41	68.20	-6.79	55.76	5.65	Peak	---	---
2	5725.00	62.62	78.20	-15.58	56.98	5.64	Peak	---	---
3	5850.00	62.10	78.20	-16.10	56.35	5.75	Peak	---	---
4	5860.00	60.47	68.20	-7.73	54.71	5.76	Peak	---	---
5	11570.00	52.35	54.00	-1.65	36.58	15.77	Average	---	---
6	11570.00	67.97	74.00	-6.03	52.20	15.77	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	11a	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	2



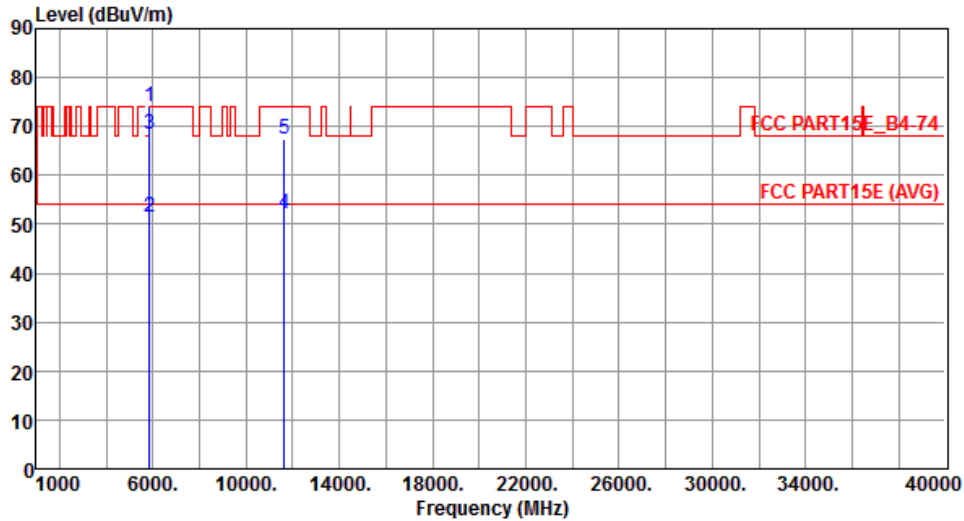
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	61.03	68.20	-7.17	55.38	5.65	Peak	---	---
2	5725.00	60.70	78.20	-17.50	55.06	5.64	Peak	---	---
3	5850.00	63.06	78.20	-15.14	57.31	5.75	Peak	---	---
4	5860.00	62.29	68.20	-5.91	56.53	5.76	Peak	---	---
5	11570.00	51.99	54.00	-2.01	36.22	15.77	Average	---	---
6	11570.00	68.29	74.00	-5.71	52.52	15.77	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	11a	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	2



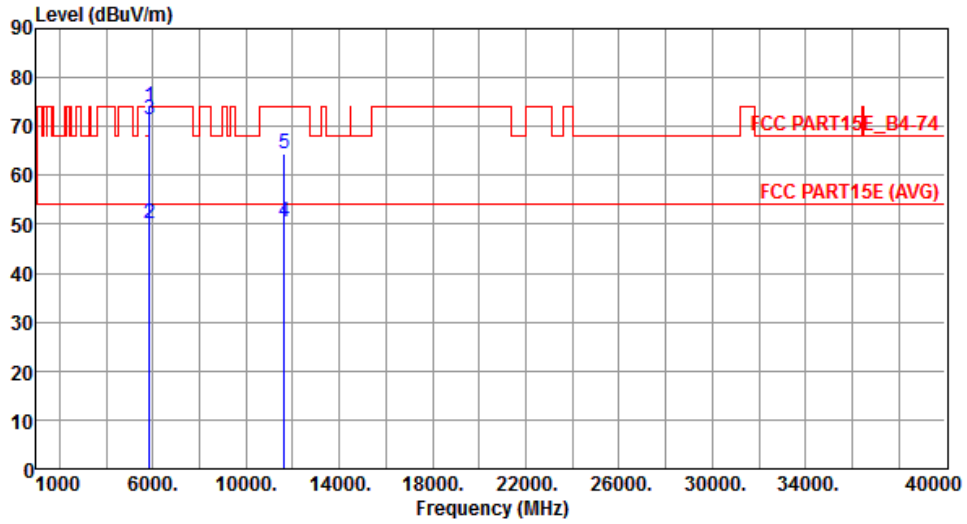
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	73.89	78.20	-4.31	68.14	5.75	Peak	---	---
2	5860.00	51.43	54.00	-2.57	45.67	5.76	Average	---	---
3	5860.00	68.54	74.00	-5.46	62.78	5.76	Peak	---	---
4	11650.00	52.19	54.00	-1.81	36.63	15.56	Average	---	---
5	11650.00	67.53	74.00	-6.47	51.97	15.56	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)	5825
Polarization	Vertical	Test Configuration	2



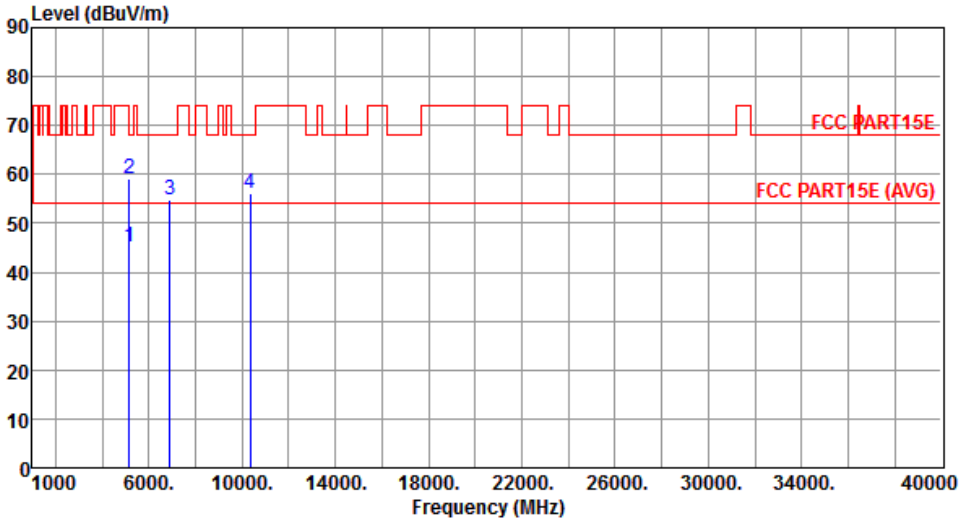
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	74.18	78.20	-4.02	68.43	5.75	Peak	---	---
2	5860.00	50.06	54.00	-3.94	44.30	5.76	Average	---	---
3	5860.00	71.39	74.00	-2.61	65.63	5.76	Peak	---	---
4	11650.00	50.46	54.00	-3.54	34.90	15.56	Average	---	---
5	11650.00	64.56	74.00	-9.44	49.00	15.56	Peak	---	---

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

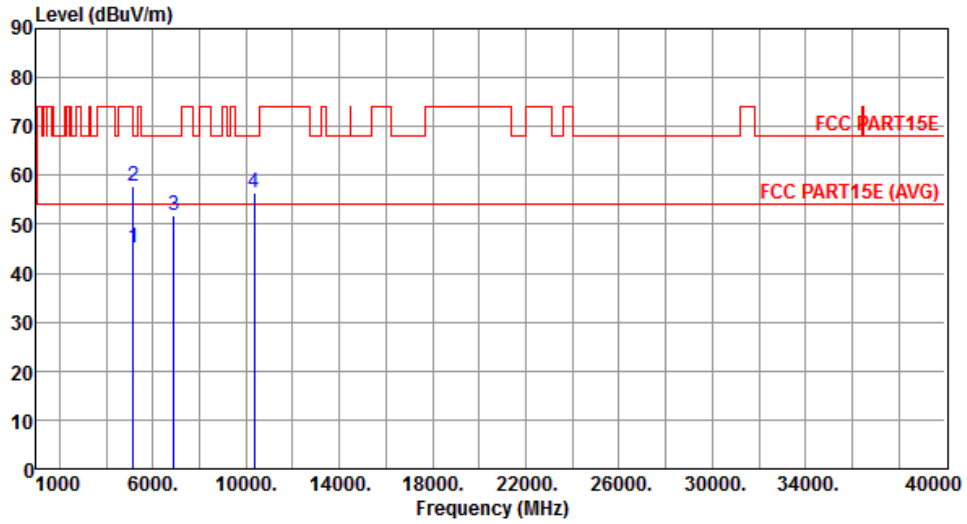
*Factor includes antenna factor , cable loss and amplifier gain

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

3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

Modulation	VHT20	Test Freq. (MHz)	5180																																																							
Polarization	Horizontal	Test Configuration	2																																																							
																																																										
	<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High cm</th> <th>Turn Table deg</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>45.21</td> <td>54.00</td> <td>-8.79</td> <td>39.75</td> <td>5.46</td> <td>Average</td> <td>---</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>58.98</td> <td>74.00</td> <td>-15.02</td> <td>53.52</td> <td>5.46</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>6906.66</td> <td>54.95</td> <td>68.20</td> <td>-13.25</td> <td>46.54</td> <td>8.41</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>10360.00</td> <td>56.08</td> <td>68.20</td> <td>-12.12</td> <td>40.67</td> <td>15.41</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg	MHz	dBuV/m	dBuV/m	dB	dBuV	dB				1	5150.00	45.21	54.00	-8.79	39.75	5.46	Average	---	2	5150.00	58.98	74.00	-15.02	53.52	5.46	Peak	---	3	6906.66	54.95	68.20	-13.25	46.54	8.41	Peak	---	4	10360.00	56.08	68.20	-12.12	40.67	15.41	Peak	---			
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB																																																					
1	5150.00	45.21	54.00	-8.79	39.75	5.46	Average	---																																																		
2	5150.00	58.98	74.00	-15.02	53.52	5.46	Peak	---																																																		
3	6906.66	54.95	68.20	-13.25	46.54	8.41	Peak	---																																																		
4	10360.00	56.08	68.20	-12.12	40.67	15.41	Peak	---																																																		
<p>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).</p>																																																										

Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical	Test Configuration	2



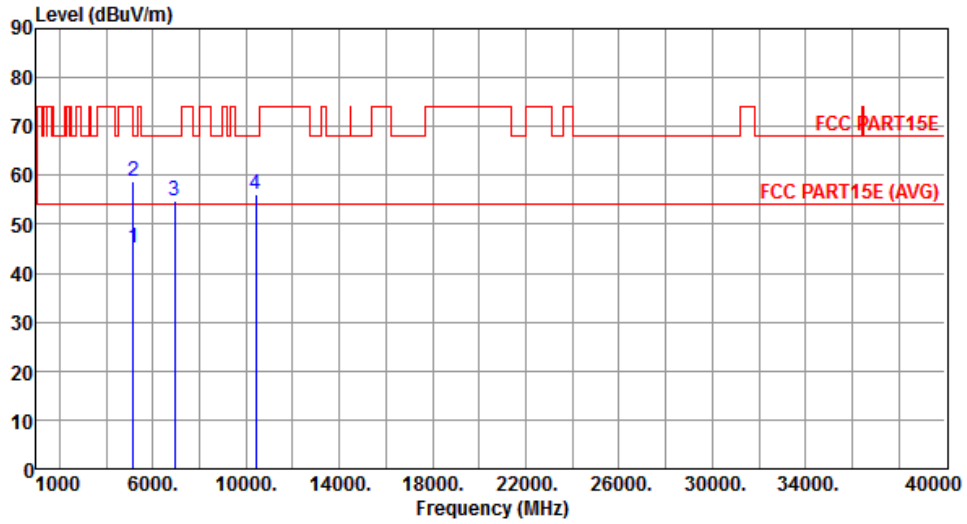
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.18	54.00	-8.82	39.72	5.46	Average	---	---
2	5150.00	57.88	74.00	-16.12	52.42	5.46	Peak	---	---
3	6906.66	51.85	68.20	-16.35	43.44	8.41	Peak	---	---
4	10360.00	56.36	68.20	-11.84	40.95	15.41	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	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal	Test Configuration	2



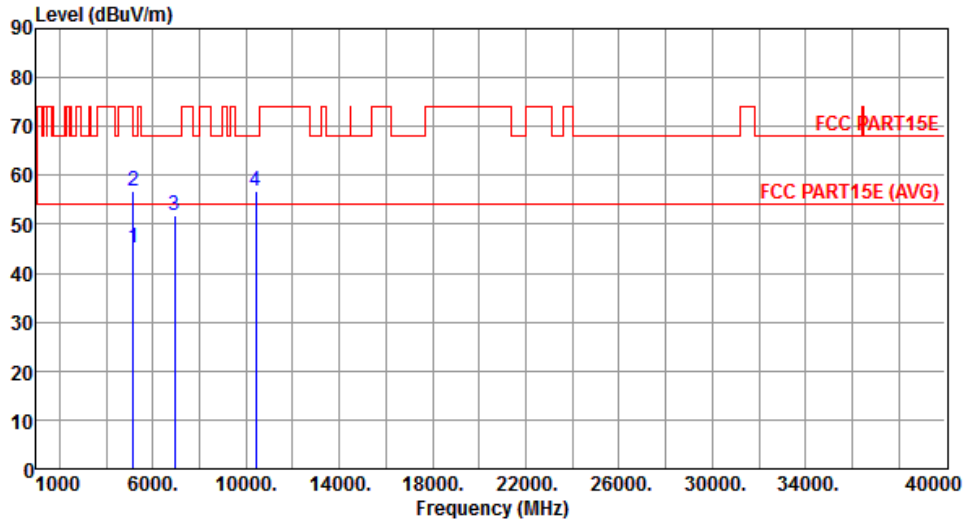
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.12	54.00	-8.88	39.66	5.46	Average	---	---
2	5150.00	58.88	74.00	-15.12	53.42	5.46	Peak	---	---
3	6933.33	54.73	68.20	-13.47	46.28	8.45	Peak	---	---
4	10400.00	56.01	68.20	-12.19	40.46	15.55	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	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical	Test Configuration	2



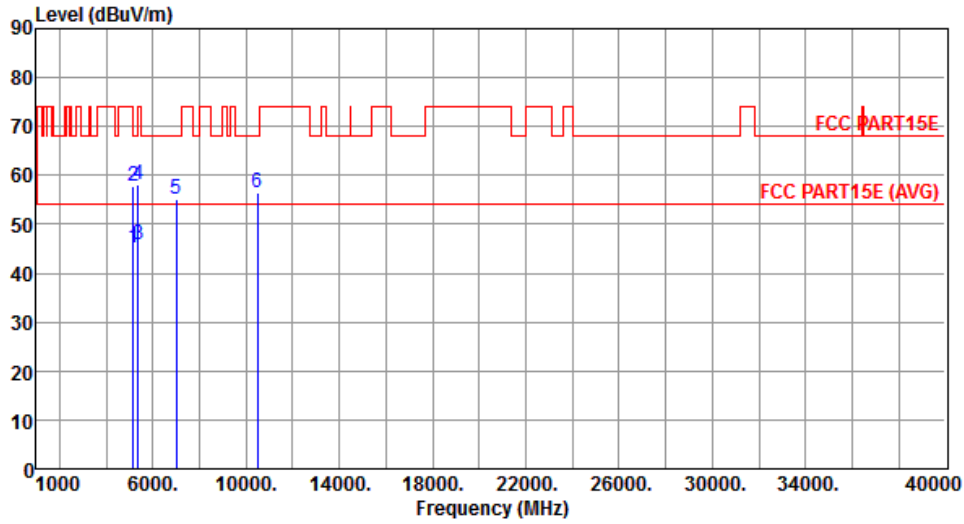
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.00	54.00	-9.00	39.54	5.46	Average	---	---
2	5150.00	56.88	74.00	-17.12	51.42	5.46	Peak	---	---
3	6933.33	51.70	68.20	-16.50	43.25	8.45	Peak	---	---
4	10400.00	56.87	68.20	-11.33	41.32	15.55	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	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal	Test Configuration	2



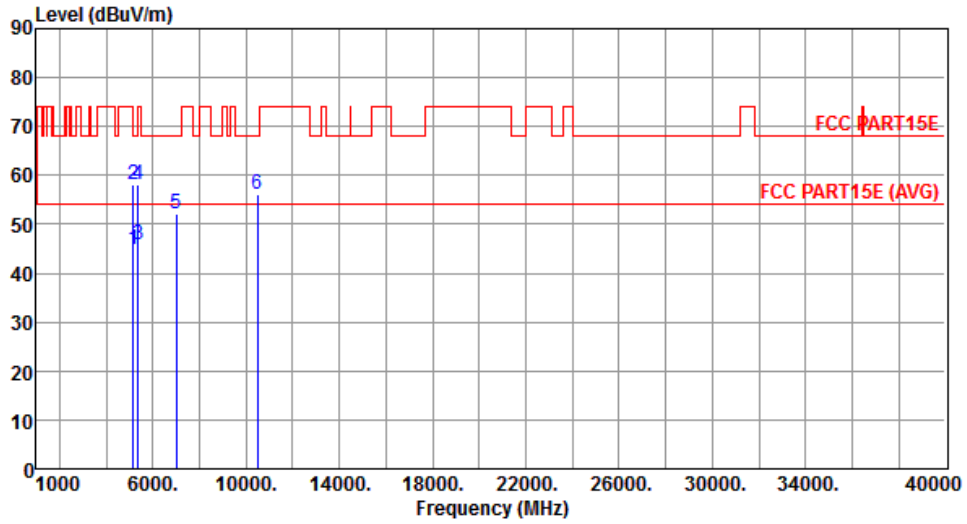
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.22	54.00	-8.78	39.76	5.46	Average	---	---
2	5150.00	57.77	74.00	-16.23	52.31	5.46	Peak	---	---
3	5350.00	45.98	54.00	-8.02	40.42	5.56	Average	---	---
4	5350.00	58.18	74.00	-15.82	52.62	5.56	Peak	---	---
5	6986.66	55.05	68.20	-13.15	46.54	8.51	Peak	---	---
6	10480.00	56.43	68.20	-11.77	40.57	15.86	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	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical	Test Configuration	2



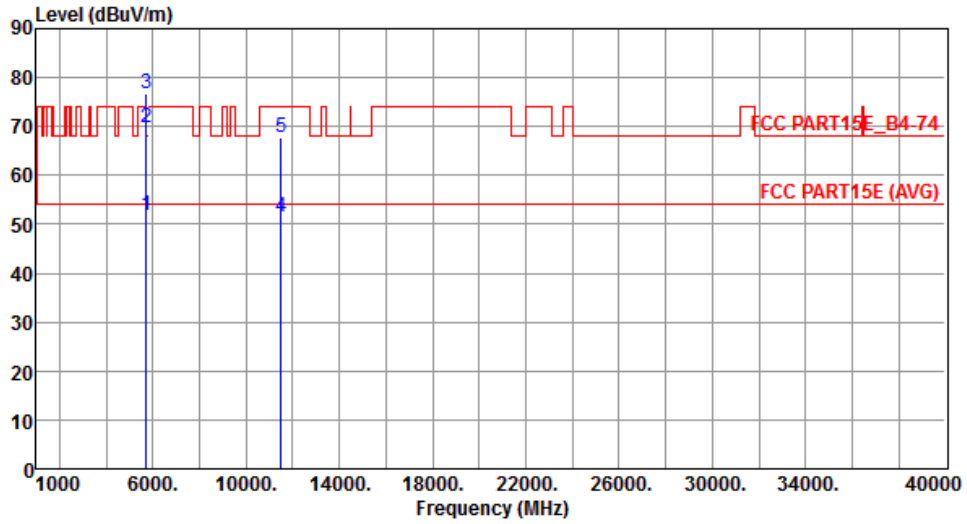
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.91	54.00	-9.09	39.45	5.46	Average	---	---
2	5150.00	58.06	74.00	-15.94	52.60	5.46	Peak	---	---
3	5350.00	45.99	54.00	-8.01	40.43	5.56	Average	---	---
4	5350.00	58.28	74.00	-15.72	52.72	5.56	Peak	---	---
5	6986.66	52.06	68.20	-16.14	43.55	8.51	Peak	---	---
6	10480.00	56.28	68.20	-11.92	40.42	15.86	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	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal	Test Configuration	2



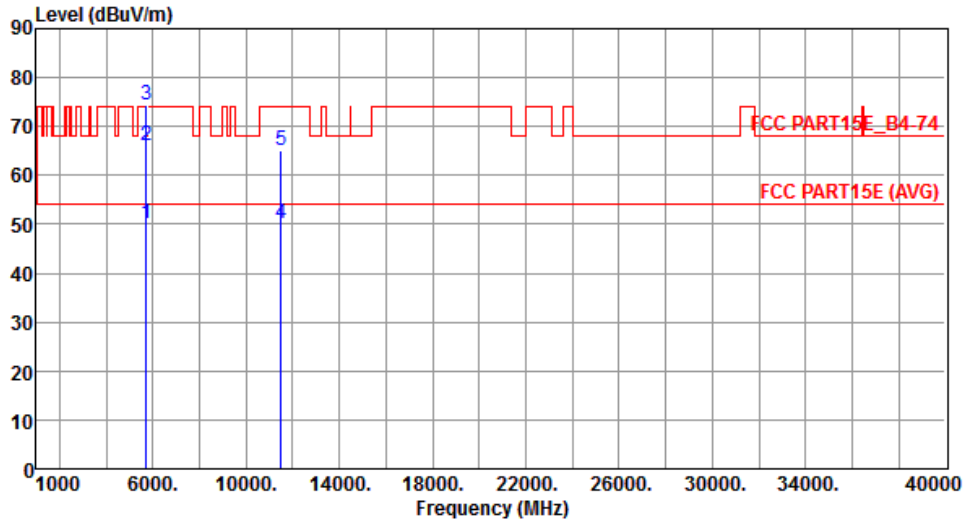
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	51.93	54.00	-2.07	46.28	5.65	Average	---	---
2	5715.00	69.75	74.00	-4.25	64.10	5.65	Peak	---	---
3	5725.00	76.64	78.20	-1.56	71.00	5.64	Peak	---	---
4	11490.00	51.36	54.00	-2.64	35.43	15.93	Average	---	---
5	11490.00	67.85	74.00	-6.15	51.92	15.93	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	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical	Test Configuration	2



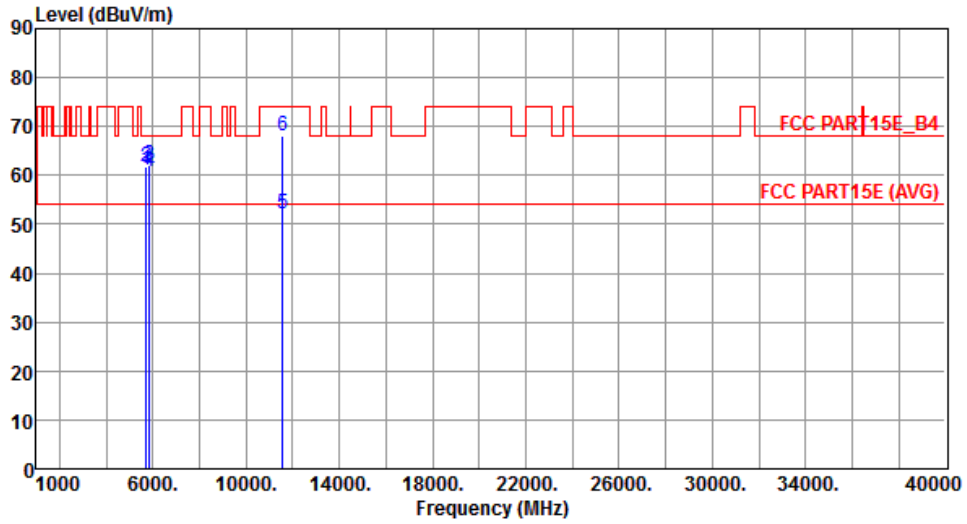
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	50.12	54.00	-3.88	44.47	5.65	Average	---	---
2	5715.00	66.25	74.00	-7.75	60.60	5.65	Peak	---	---
3	5725.00	74.28	78.20	-3.92	68.64	5.64	Peak	---	---
4	11490.00	50.03	54.00	-3.97	34.10	15.93	Average	---	---
5	11490.00	64.97	74.00	-9.03	49.04	15.93	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	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	2



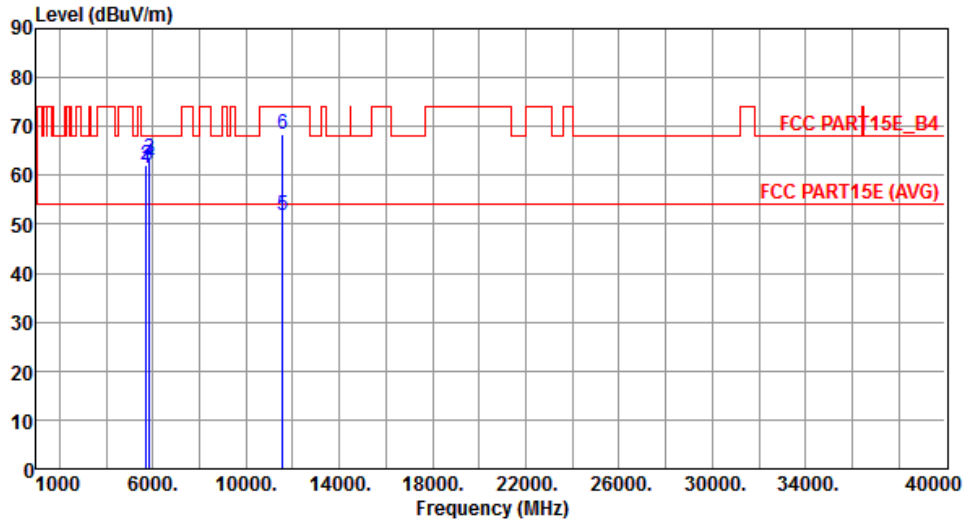
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	61.17	68.20	-7.03	55.52	5.65	Peak	---	---
2	5725.00	61.85	78.20	-16.35	56.21	5.64	Peak	---	---
3	5850.00	62.10	78.20	-16.10	56.35	5.75	Peak	---	---
4	5860.00	60.84	68.20	-7.36	55.08	5.76	Peak	---	---
5	11570.00	52.24	54.00	-1.76	36.47	15.77	Average	---	---
6	11570.00	68.08	74.00	-5.92	52.31	15.77	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	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	2



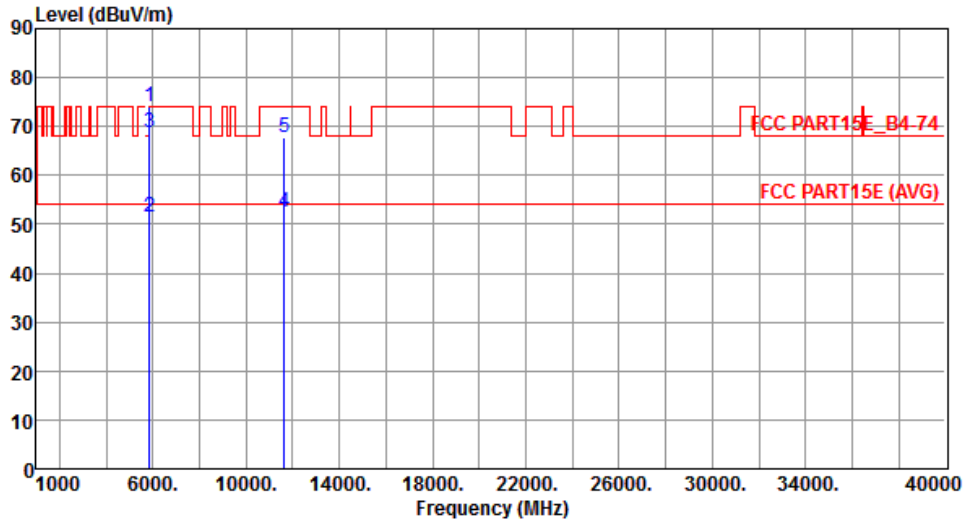
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	61.53	68.20	-6.67	55.88	5.65	Peak	---	---
2	5725.00	61.95	78.20	-16.25	56.31	5.64	Peak	---	---
3	5850.00	63.36	78.20	-14.84	57.61	5.75	Peak	---	---
4	5860.00	62.57	68.20	-5.63	56.81	5.76	Peak	---	---
5	11570.00	51.76	54.00	-2.24	35.99	15.77	Average	---	---
6	11570.00	68.32	74.00	-5.68	52.55	15.77	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	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	2



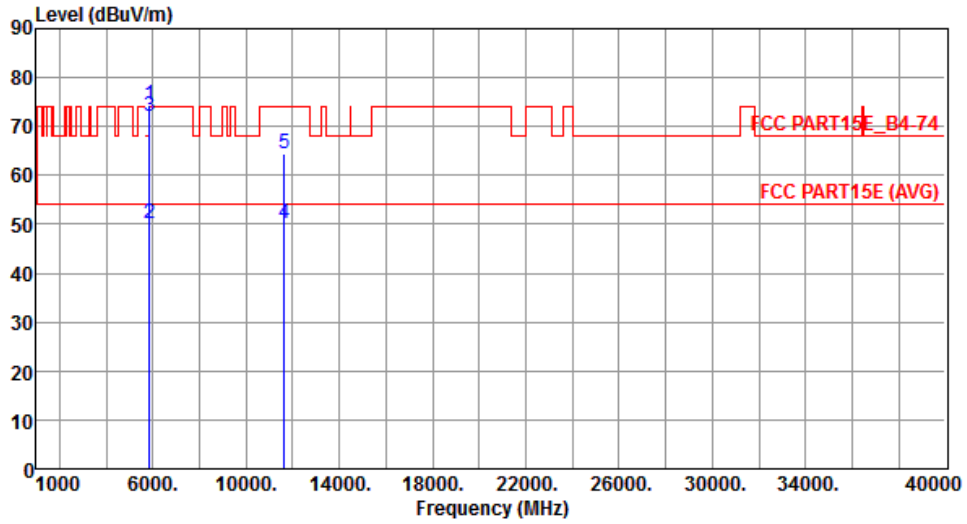
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	73.97	78.20	-4.23	68.22	5.75	Peak	---	---
2	5860.00	51.39	54.00	-2.61	45.63	5.76	Average	---	---
3	5860.00	68.88	74.00	-5.12	63.12	5.76	Peak	---	---
4	11650.00	52.33	54.00	-1.67	36.77	15.56	Average	---	---
5	11650.00	67.87	74.00	-6.13	52.31	15.56	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	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical	Test Configuration	2



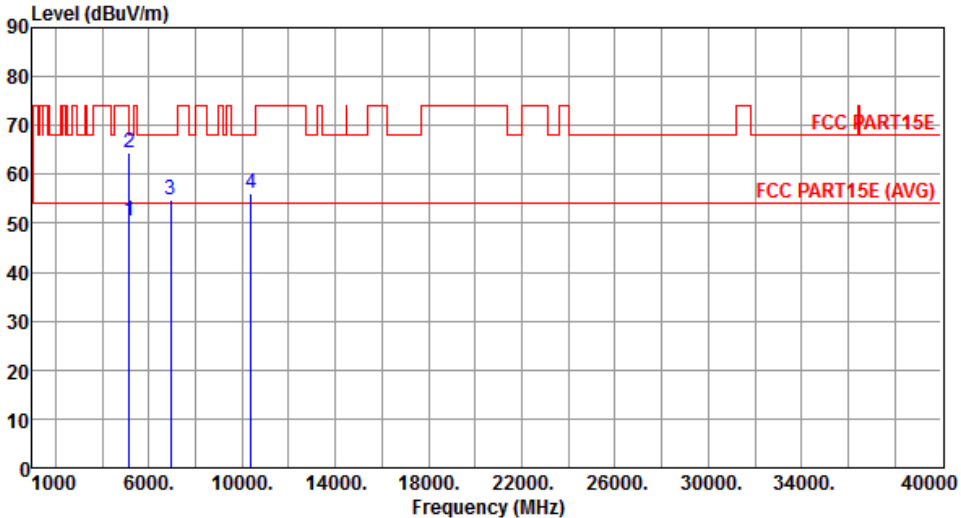
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	74.36	78.20	-3.84	68.61	5.75	Peak	---	---
2	5860.00	50.17	54.00	-3.83	44.41	5.76	Average	---	---
3	5860.00	72.22	74.00	-1.78	66.46	5.76	Peak	---	---
4	11650.00	50.13	54.00	-3.87	34.57	15.56	Average	---	---
5	11650.00	64.54	74.00	-9.46	48.98	15.56	Peak	---	---

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

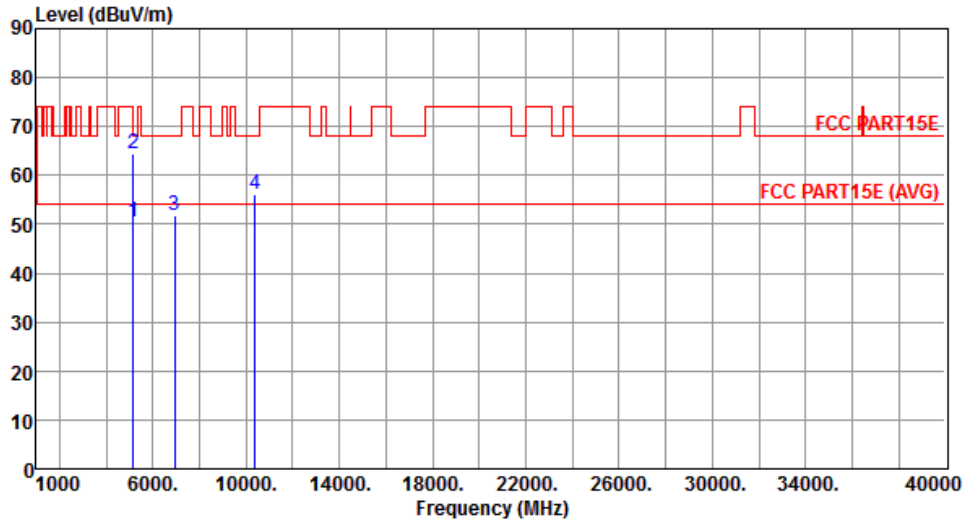
*Factor includes antenna factor , cable loss and amplifier gain

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

3.5.13 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

Modulation	VHT40	Test Freq. (MHz)	5190																																																							
Polarization	Horizontal	Test Configuration	2																																																							
																																																										
	<table border="1"> <thead> <tr> <th>Freq.</th> <th>Emission level</th> <th>Limit</th> <th>Margin</th> <th>SA reading</th> <th>Factor</th> <th>Remark</th> <th>ANT High</th> <th>Turn Table</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB</th> <th></th> <th>cm</th> <th>deg</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5150.00</td> <td>50.62</td> <td>54.00</td> <td>-3.38</td> <td>45.16</td> <td>5.46</td> <td>Average</td> <td>---</td> </tr> <tr> <td>2</td> <td>5150.00</td> <td>64.39</td> <td>74.00</td> <td>-9.61</td> <td>58.93</td> <td>5.46</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>6920.00</td> <td>54.78</td> <td>68.20</td> <td>-13.42</td> <td>46.35</td> <td>8.43</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>4</td> <td>10380.00</td> <td>56.02</td> <td>68.20</td> <td>-12.18</td> <td>40.54</td> <td>15.48</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table	MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg	1	5150.00	50.62	54.00	-3.38	45.16	5.46	Average	---	2	5150.00	64.39	74.00	-9.61	58.93	5.46	Peak	---	3	6920.00	54.78	68.20	-13.42	46.35	8.43	Peak	---	4	10380.00	56.02	68.20	-12.18	40.54	15.48	Peak	---			
Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table																																																		
MHz	dBuV/m	dBuV/m	dB	dBuV	dB		cm	deg																																																		
1	5150.00	50.62	54.00	-3.38	45.16	5.46	Average	---																																																		
2	5150.00	64.39	74.00	-9.61	58.93	5.46	Peak	---																																																		
3	6920.00	54.78	68.20	-13.42	46.35	8.43	Peak	---																																																		
4	10380.00	56.02	68.20	-12.18	40.54	15.48	Peak	---																																																		
<p>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).</p>																																																										

Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical	Test Configuration	2



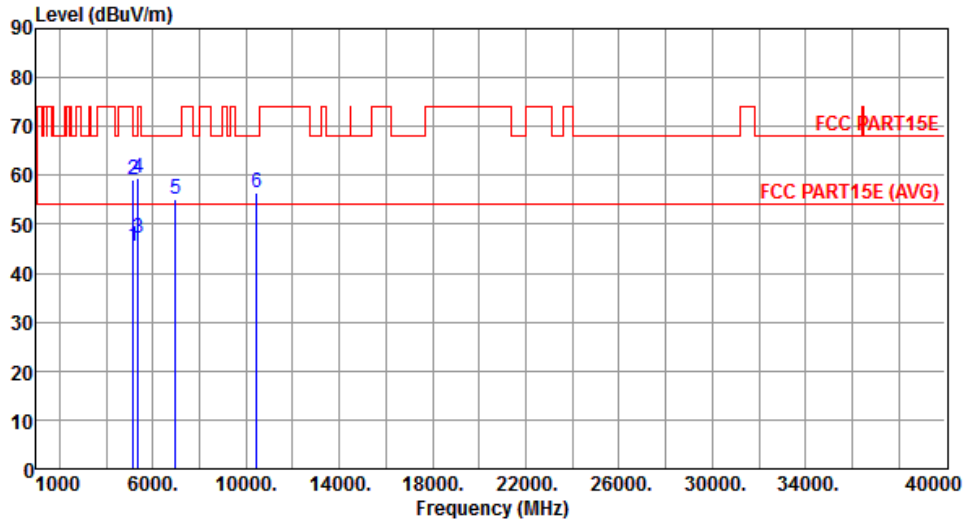
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	50.46	54.00	-3.54	45.00	5.46	Average	---	---
2	5150.00	64.44	74.00	-9.56	58.98	5.46	Peak	---	---
3	6920.00	51.80	68.20	-16.40	43.37	8.43	Peak	---	---
4	10380.00	56.12	68.20	-12.08	40.64	15.48	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	2



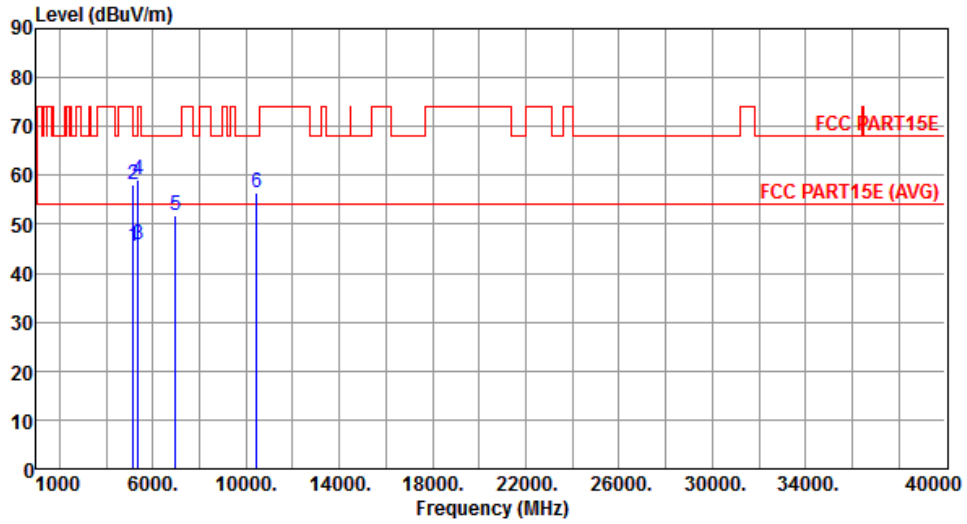
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.64	54.00	-8.36	40.18	5.46	Average	---	---
2	5150.00	59.26	74.00	-14.74	53.80	5.46	Peak	---	---
3	5350.00	47.27	54.00	-6.73	41.71	5.56	Average	---	---
4	5350.00	59.54	74.00	-14.46	53.98	5.56	Peak	---	---
5	6973.33	55.08	68.20	-13.12	46.58	8.50	Peak	---	---
6	10460.00	56.39	68.20	-11.81	40.61	15.78	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	2



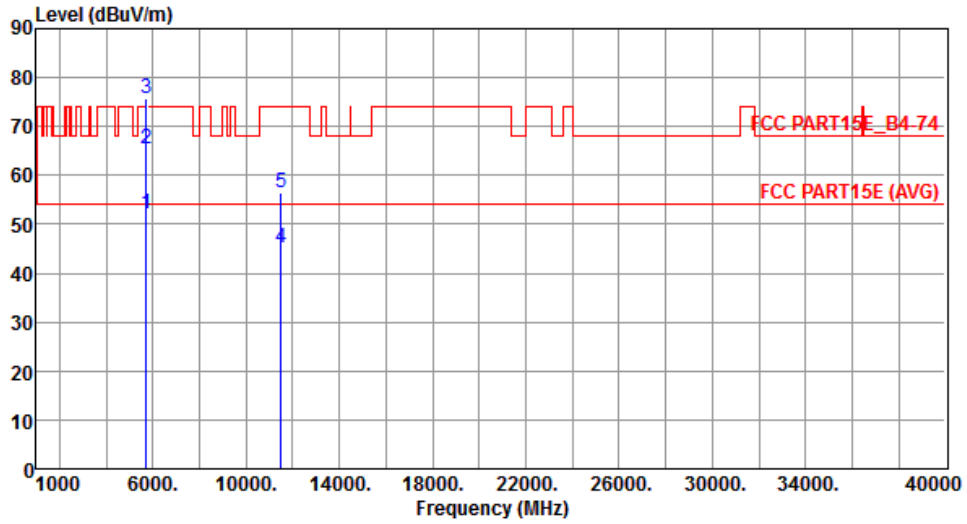
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.59	54.00	-8.41	40.13	5.46	Average	---	---
2	5150.00	58.24	74.00	-15.76	52.78	5.46	Peak	---	---
3	5350.00	45.99	54.00	-8.01	40.43	5.56	Average	---	---
4	5350.00	59.11	74.00	-14.89	53.55	5.56	Peak	---	---
5	6973.33	51.91	68.20	-16.29	43.41	8.50	Peak	---	---
6	10460.00	56.32	68.20	-11.88	40.54	15.78	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)	5755
Polarization	Horizontal	Test Configuration	2



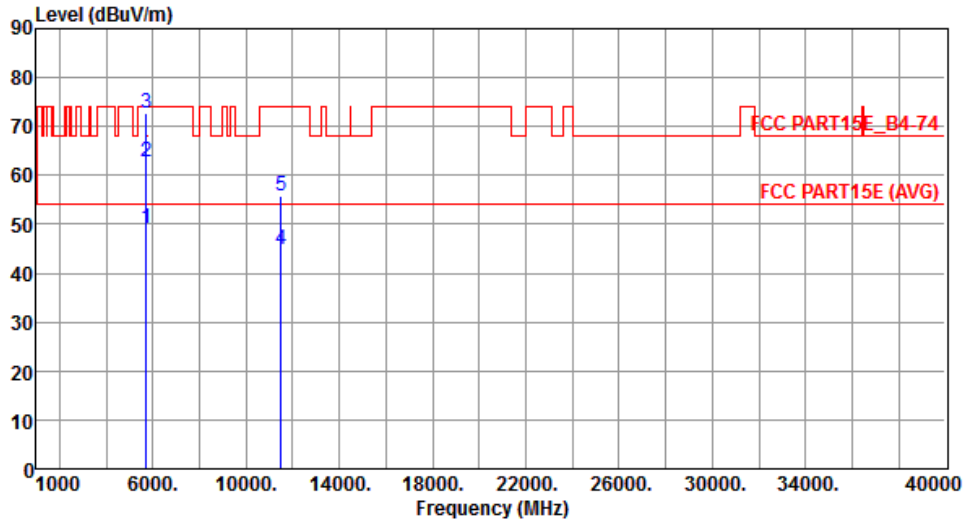
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	52.14	54.00	-1.86	46.49	5.65	Average	---	---
2	5715.00	65.50	74.00	-8.50	59.85	5.65	Peak	---	---
3	5725.00	75.65	78.20	-2.55	70.01	5.64	Peak	---	---
4	11510.00	45.28	54.00	-8.72	29.36	15.92	Average	---	---
5	11510.00	56.48	74.00	-17.52	40.56	15.92	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)	5755
Polarization	Vertical	Test Configuration	2



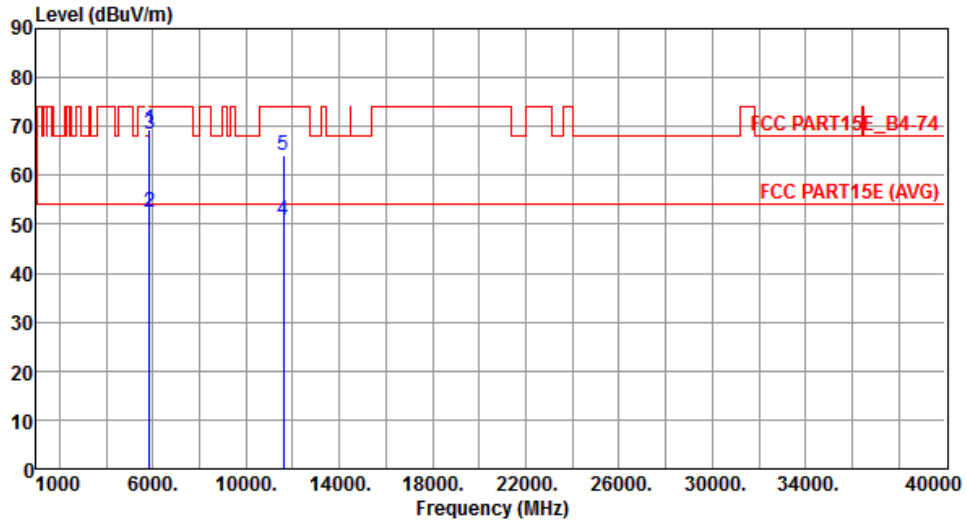
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	49.30	54.00	-4.70	43.65	5.65	Average	---	---
2	5715.00	62.68	74.00	-11.32	57.03	5.65	Peak	---	---
3	5725.00	72.71	78.20	-5.49	67.07	5.64	Peak	---	---
4	11510.00	44.78	54.00	-9.22	28.86	15.92	Average	---	---
5	11510.00	55.94	74.00	-18.06	40.02	15.92	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)	5795
Polarization	Horizontal	Test Configuration	2



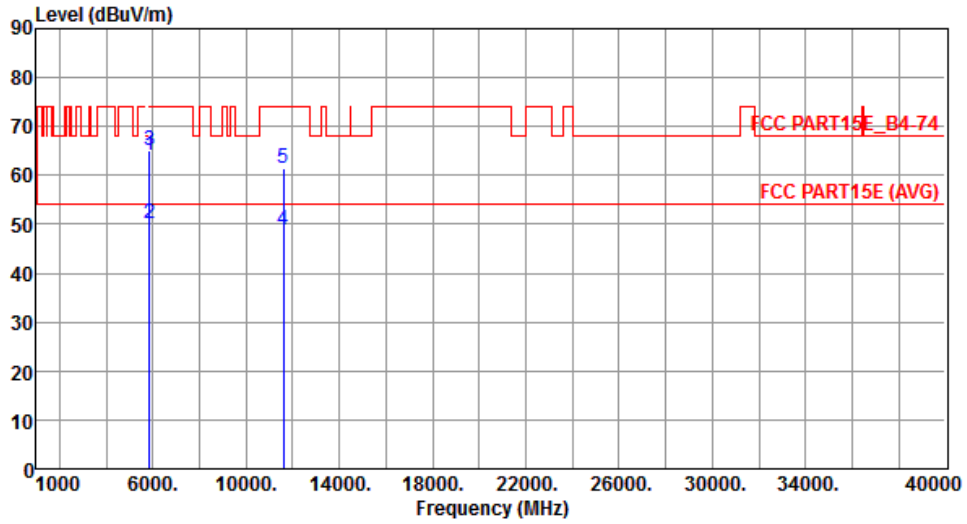
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	69.55	78.20	-8.65	63.80	5.75	Peak	---	---
2	5860.00	52.43	54.00	-1.57	46.67	5.76	Average	---	---
3	5860.00	68.32	74.00	-5.68	62.56	5.76	Peak	---	---
4	11590.00	50.94	54.00	-3.06	35.23	15.71	Average	---	---
5	11590.00	63.95	74.00	-10.05	48.24	15.71	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)	5795
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	5850.00	64.06	78.20	-14.14	58.31	5.75	Peak	---	---
2	5860.00	50.09	54.00	-3.91	44.33	5.76	Average	---	---
3	5860.00	65.08	74.00	-8.92	59.32	5.76	Peak	---	---
4	11590.00	48.88	54.00	-5.12	33.17	15.71	Average	---	---
5	11590.00	61.61	74.00	-12.39	45.90	15.71	Peak	---	---

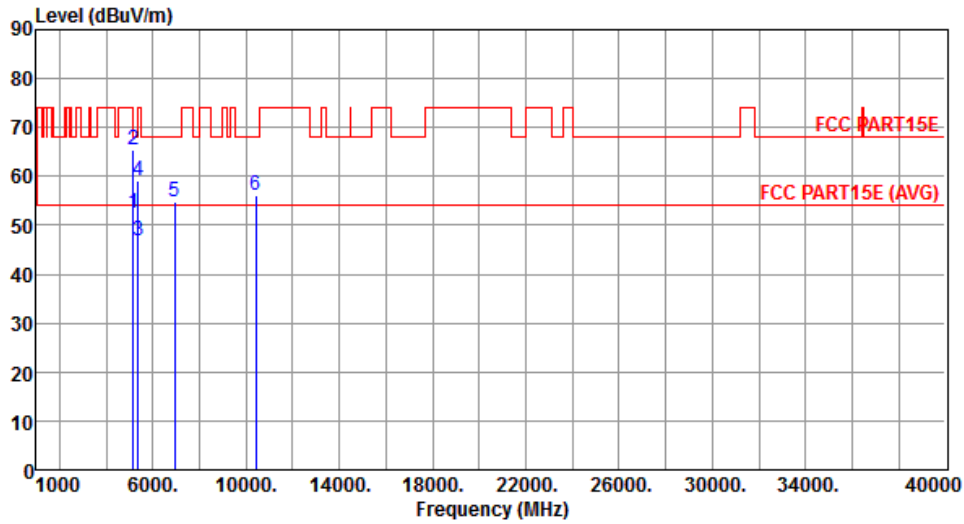
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

3.5.14 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal	Test Configuration	2



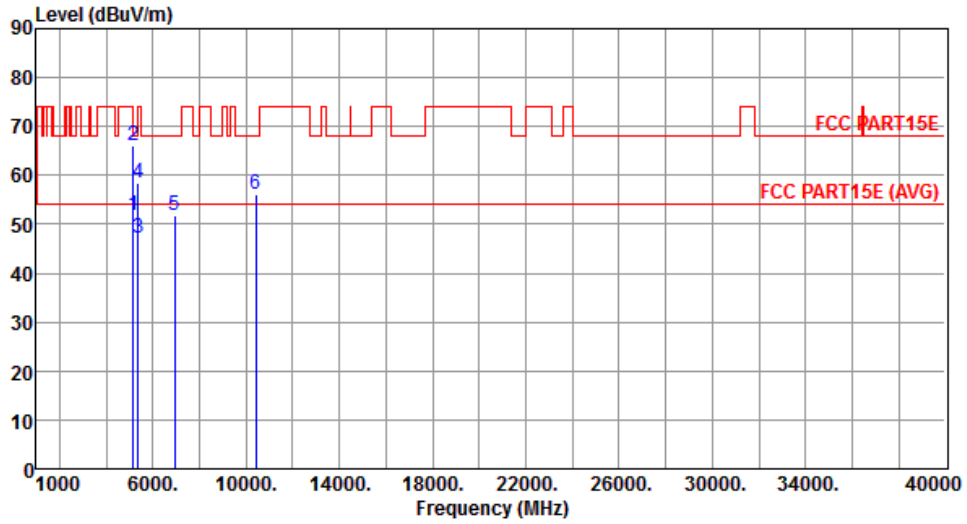
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.50	54.00	-1.50	47.04	5.46	Average	---	---
2	5150.00	65.45	74.00	-8.55	59.99	5.46	Peak	---	---
3	5350.00	46.92	54.00	-7.08	41.36	5.56	Average	---	---
4	5350.00	59.04	74.00	-14.96	53.48	5.56	Peak	---	---
5	6946.66	54.75	68.20	-13.45	46.29	8.46	Peak	---	---
6	10420.00	56.00	68.20	-12.20	40.37	15.63	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	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical	Test Configuration	2



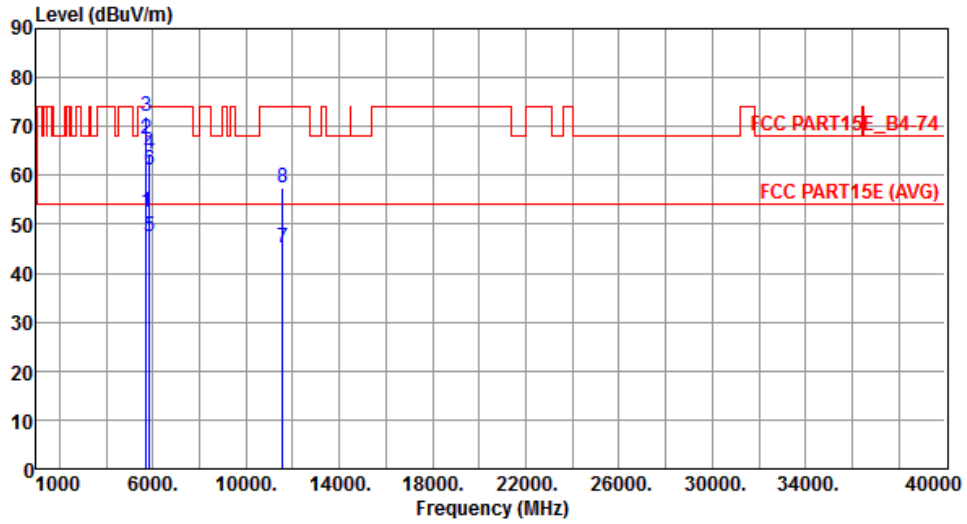
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	51.66	54.00	-2.34	46.20	5.46	Average	---	---
2	5150.00	66.09	74.00	-7.91	60.63	5.46	Peak	---	---
3	5350.00	47.32	54.00	-6.68	41.76	5.56	Average	---	---
4	5350.00	58.52	74.00	-15.48	52.96	5.56	Peak	---	---
5	6946.66	51.74	68.20	-16.46	43.28	8.46	Peak	---	---
6	10420.00	56.26	68.20	-11.94	40.63	15.63	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	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal	Test Configuration	2



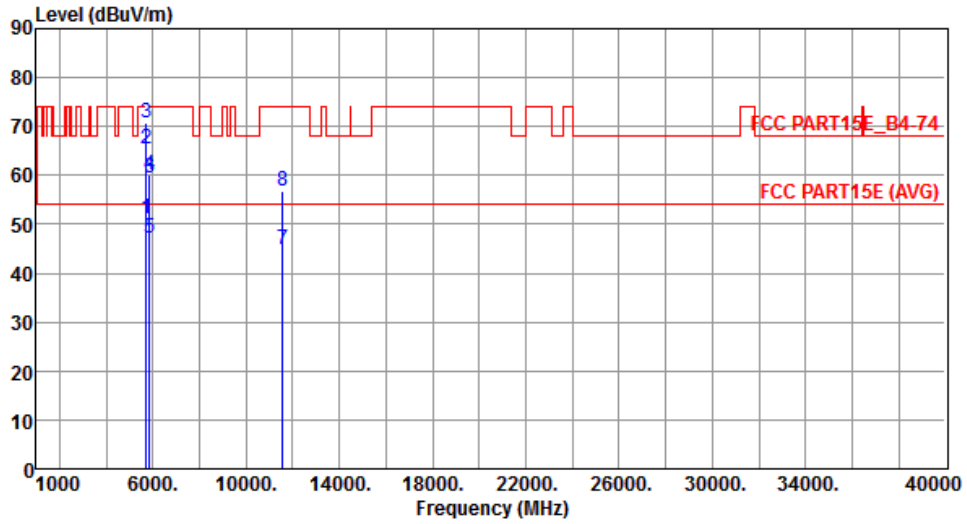
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	52.46	54.00	-1.54	46.81	5.65	Average	---	---
2	5715.00	67.30	74.00	-6.70	61.65	5.65	Peak	---	---
3	5725.00	72.20	78.20	-6.00	66.56	5.64	Peak	---	---
4	5850.00	64.43	78.20	-13.77	58.68	5.75	Peak	---	---
5	5860.00	47.39	54.00	-6.61	41.63	5.76	Average	---	---
6	5860.00	61.00	74.00	-13.00	55.24	5.76	Peak	---	---
7	11550.00	45.24	54.00	-8.76	29.43	15.81	Average	---	---
8	11550.00	57.40	74.00	-16.60	41.59	15.81	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).

Modulation	VHT80	Test Freq. (MHz)	5775
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	5715.00	51.29	54.00	-2.71	45.64	5.65	Average	---	---
2	5715.00	65.50	74.00	-8.50	59.85	5.65	Peak	---	---
3	5725.00	70.88	78.20	-7.32	65.24	5.64	Peak	---	---
4	5850.00	60.10	78.20	-18.10	54.35	5.75	Peak	---	---
5	5860.00	47.22	54.00	-6.78	41.46	5.76	Average	---	---
6	5860.00	59.42	74.00	-14.58	53.66	5.76	Peak	---	---
7	11550.00	44.95	54.00	-9.05	29.14	15.81	Average	---	---
8	11550.00	56.88	74.00	-17.12	41.07	15.81	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).

3.6 Frequency Stability

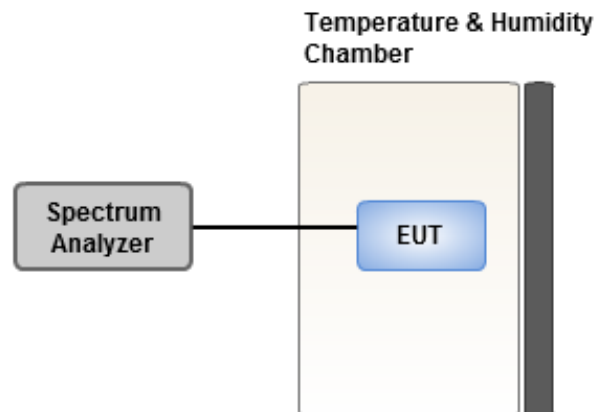
3.6.1 Limit of Frequency Stability

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 50 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: 5200 MHz	Frequency Drift (ppm)				
	Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax		5.57	5.38	4.83	5.54
T20°CVmin		5.07	4.32	4.36	4.85
T55°CVnom		4.89	4.14	4.47	4.69
T50°CVnom		4.58	4.27	4.68	4.49
T40°CVnom		4.23	3.93	3.88	4.38
T30°CVnom		3.80	2.81	3.75	3.35
T20°CVnom		3.48	2.80	3.29	3.08
T10°CVnom		3.05	3.42	2.88	3.23
T0°CVnom		2.85	3.31	3.46	2.82
T-10°CVnom		2.11	2.51	2.18	2.36
T-20°CVnom		1.28	1.50	1.42	1.15
T-30°CVnom		1.32	2.02	1.53	1.22
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102	
Tnom [°C]: 20		Tmax [°C]: 55		Tmin [°C]: -30	

Frequency: 5785 MHz	Frequency Drift (ppm)				
	Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax		5.85	5.06	5.54	5.54
T20°CVmin		4.72	4.41	4.60	4.21
T55°CVnom		4.43	3.88	4.53	4.35
T50°CVnom		4.60	3.73	4.36	4.22
T40°CVnom		3.90	4.17	3.74	3.66
T30°CVnom		4.49	3.83	3.73	3.53
T20°CVnom		3.44	2.89	3.59	3.32
T10°CVnom		3.48	3.23	3.32	3.12
T0°CVnom		3.08	3.32	3.64	2.67
T-10°CVnom		1.42	2.10	1.41	2.31
T-20°CVnom		1.52	1.98	1.90	1.77
T-30°CVnom		2.49	1.89	1.85	2.48
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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