FCC Test Report

FCC ID	:	**2ADYF-AP20**
Equipment	:	**802.11AC Wireless Internet Router**
Model No.	:	**AP20**
Brand Name	:	**Art2Wave**
Applicant	:	**Art2Wave Inc**
Address	:	**1901 South Bascom Ave, Suite 1300, Campbell, CA, 95008, USA**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Mar. 19, 2015**
Tested Date	:	**Apr. 23 ~ Sep. 03, 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

Testing Laboratory
2732

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Release Record

Report No.	Version	Description	Issued Date
FR582101AN	Rev. 01	Initial issue	Sep. 15, 2015

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.434MHz 41.61 (Margin -5.56dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5715.00MHz 68.08 (Margin -0.12dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: ***Non-beamforming mode*** 5150-5250MHz: 23.72 5725-5850MHz: 25.60 ***Beamforming mode*** 5150-5250MHz: 24.04 5725-5850MHz: 25.93	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 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]	1	6-54 Mbps
5150-5250	n (HT20)	5180-5240	36-48 [4]	2	MCS 0-15
5150-5250	n (HT40)	5190-5230	38-46 [2]	2	MCS 0-15
5150-5250	ac (VHT20)	5180-5240	36-48 [4]	2	MCS 0-9
5150-5250	ac (VHT40)	5190-5230	38-46 [2]	2	MCS 0-9
5150-5250	ac (VHT80)	5210	42 [1]	2	MCS 0-9
5725-5850	a	5745-5825	149-165 [5]	1	6-54 Mbps
5725-5850	n (HT20)	5745-5825	149-165 [5]	2	MCS 0-15
5725-5850	n (HT40)	5755-5795	151-159 [2]	2	MCS 0-15
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	2	MCS 0-9
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	2	MCS 0-9
5725-5850	ac (VHT80)	5775	155 [1]	2	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.
Note 3: 802.11a is transmitting signal through chain 0 only.
Note 4: 802.11n/ac supports beamforming mode.

1.1.2 Antenna Details

Ant. No.	**Type**	**Connector**	**Operating Frequencies (MHz) / Antenna Gain (dBi)**		
			2400~2483.5	**5150~5250**	**5725~5850**
1	PIFA	UFL	3.5	-	-
2			3.5	-	-
3			-	5.28	5.10
4			-	5.12	5.28

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type 1	12Vdc from AC adapter
Power Supply Type 2 (support unit only)	56Vdc from POE Brand: CISCO Model: AIR-PWRINJ1500-2 Power Rating: I/P: 100-240Vac, 50/60Hz, 1.5A O/P: 56Vdc, 1.43A

1.1.4 Accessories

Accessories		
No.	**Equipment**	**Description**
1	AC Adapter	Brand Name: DVE Model Name: DSA-20CA-12 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.8A O/P: 12Vdc, 1.5A Power Line: 1.5m non-shielded cable w/o core
2	RJ45 cable	1.5m non-shielded cable without core

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	**VHT 80**	
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	MTool, Version: 2.0.1.0				
Duty Cycle and Duty Factor	Mode	Non-Beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11a	99.29%	0.03	---	---
	VHT20	99.26%	0.03	93.75%	0.28
	VHT40	98.23%	0.08	98.47%	0.07
	VHT80	95.27%	0.21	98.07%	0.08

1.1.7 Power Setting

For Frequency band 5150-5250 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5180	92	---
11a	5200	92	---
11a	5240	92	---
HT20	5180	76	75
HT20	5200	92	92
HT20	5240	92	72
HT40	5190	58	54
HT40	5230	92	92
VHT20	5180	76	75
VHT20	5200	92	92
VHT20	5240	92	72
VHT40	5190	58	54
VHT40	5230	92	92
VHT80	5210	47	47

For Frequency band 5725~5850 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5745	74	---
11a	5785	92	---
11a	5825	76	---
HT20	5745	72	68
HT20	5785	92	92
HT20	5825	70	70
HT40	5755	60	60
HT40	5795	78	78
VHT20	5745	72	68
VHT20	5785	92	92
VHT20	5825	70	70
VHT40	5755	60	60
VHT40	5795	78	78
VHT80	5775	50	50

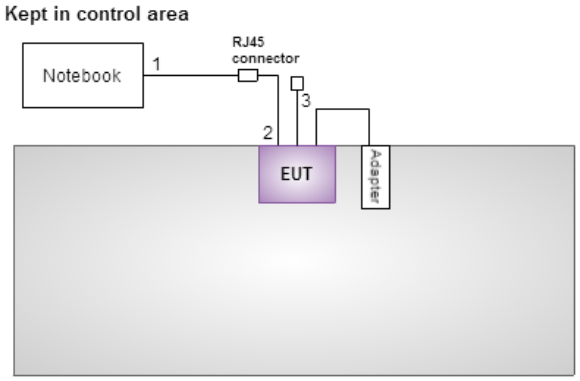
1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Signal cable / Length (m)**
1	Notebook	DELL	Latitude E5420	DoC	RJ45, 8m non-shielded.
2	POE	CISCO	AIR-PWRINJ1500-2	---	RJ45, 8m non-shielded.

Note: POE is provided by applicant.

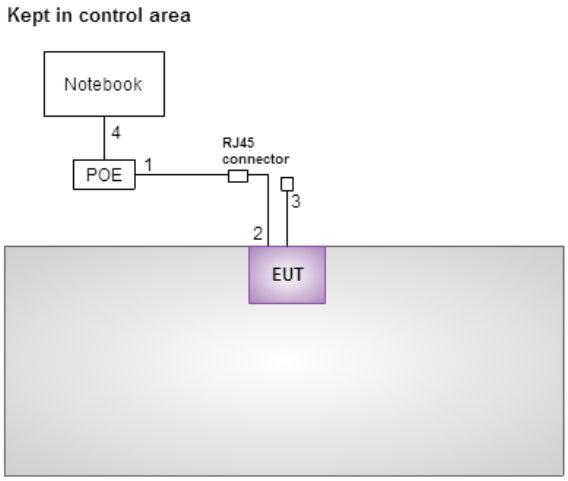
1.3 Test Setup Chart

Test Setup Diagram (Adapter mode)



1. RJ45, 8m non-shielded
2. RJ45, 1.5m non-shielded
3. RJ45, 1m non-shielded with load

Test Setup Diagram (POE mode)



1. RJ45, 8m non-shielded
2. RJ45, 1.5m non-shielded
3. RJ45, 1m non-shielded with load
4. RJ45, 1m non-shielded

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 chamber 3 / (03CH03-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 16, 2014	Sep. 15, 2015
Receiver	Agilent	N9038A	MY53290044	Oct. 21, 2014	Oct. 20, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-562	Jan. 19, 2015	Jan. 18, 2016
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 03, 2015	Feb. 02, 2016
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 10, 2014	Nov. 09, 2015
Loop Antenna	R&S	HFH2-Z2	11900	Nov. 10, 2014	Nov. 09, 2015
Preamplifier	EMC	EMC02325	980187	Sep. 26, 2014	Sep. 25, 2015
Preamplifier	Agilent	83017A	MY53270014	Sep. 17, 2014	Sep. 16, 2015
Pre-Amplifier	WM	TF-130N-R1	923365	Feb. 10, 2015	Feb. 09, 2016
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 09, 2015	Feb. 08, 2016
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22601/4	Feb. 09, 2015	Feb. 08, 2016
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 09, 2015	Feb. 08, 2016
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 09, 2015	Feb. 08, 2016
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 09, 2015	Feb. 08, 2016
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 09, 2015	Feb. 08, 2016
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

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 C63.10-2013
FCC KDB 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 v01r01

1.6 Measurement Uncertainty

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

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

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 66%	Kevin Ma
Radiated Emissions	03CH03-WS	21-24°C / 60-62%	Warren Lee Brad Wu
RF Conducted	TH01-WS	23°C / 62%	Felix Sung

- FCC site registration No.: 390588
- IC site registration No.: 10807C-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	5230	MCS 0	1, 2
	VHT20	5200	MCS 0	3, 4
Radiated Emissions ≤1GHz	VHT40	5230	MCS 0	1, 2
	VHT20	5200	MCS 0	3, 4
RF Output Power	11a	5180 / 5200 / 5240	6 Mbps	1, 3
	HT20	5180 / 5200 / 5240	MCS 0	
	HT40	5190 / 5230	MCS 0	
	VHT20	5180 / 5200 / 5240	MCS 0	
	VHT40	5190 / 5230	MCS 0	
	VHT80	5210	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240	6 Mbps	1
	VHT20	5180 / 5200 / 5240	MCS 0	
	VHT40	5190 / 5230	MCS 0	
	VHT80	5210	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	VHT20	5180 / 5200 / 5240	MCS 0	3
	VHT40	5190 / 5230	MCS 0	
	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 **X-plane** results were found as the worst case and were shown in this report.
2. Test configurations are listed as below:
   1) Configuration 1: Non-beamforming mode, Adapter mode
   2) Configuration 2: Non-beamforming mode, PoE mode
   3) Configuration 3: Beamforming mode, Adapter mode
   4) Configuration 4: Beamforming mode, PoE mode

For Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate (Mbps) / MCS**	**Test Configuration**
Conducted Emissions	VHT20	5785	MCS 0	1, 2
	HT20	5785	MCS 0	3, 4
Radiated Emissions ≤1GHz	VHT20	5785	MCS 0	1, 2
	HT20	5785	MCS 0	3, 4
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	1, 3
	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 >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	1
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	VHT20 VHT40 VHT80	5745 / 5785 / 5825 5755 / 5795 5775	MCS 0 MCS 0 MCS 0	3
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 **X-plane** results were found as the worst case and were shown in this report.
2. Test configurations are listed as below:
   1) Configuration 1: Non-beamforming mode, Adapter mode
   2) Configuration 2: Non-beamforming mode, PoE mode
   3) Configuration 3: Beamforming mode, Adapter mode
   4) Configuration 4: Beamforming mode, PoE mode

3 Transmitter Test Results

3.1 Conducted Emissions

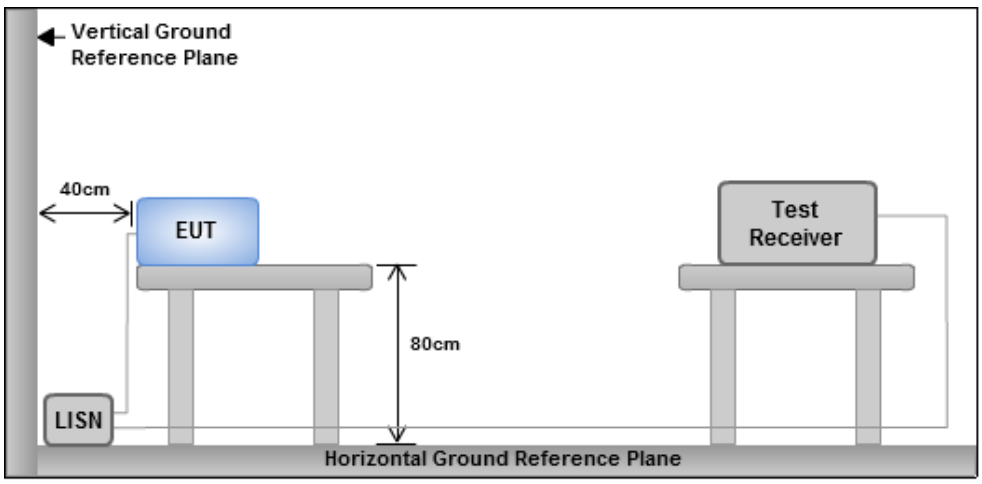
3.1.1 Limit of Conducted Emissions

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



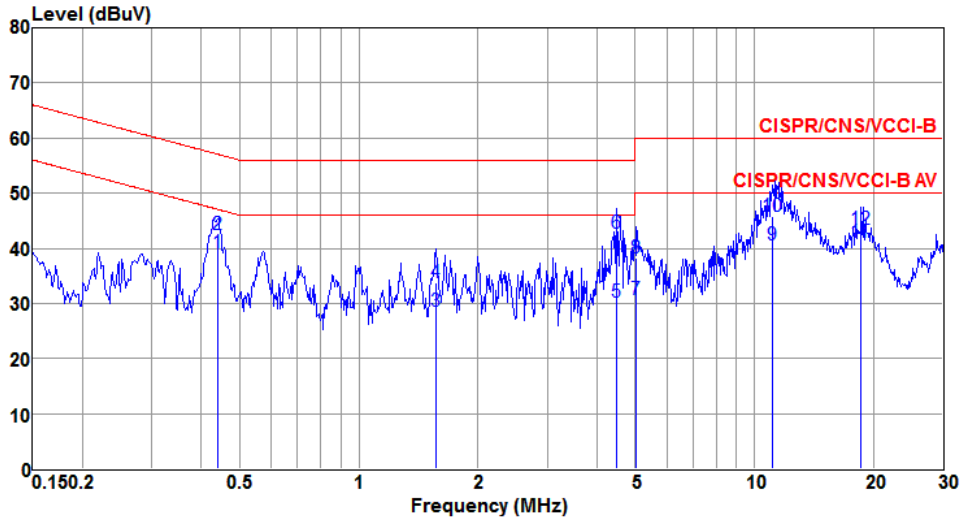
Note: 1. Support units were connected to second LISN.

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

Non- beamforming mode

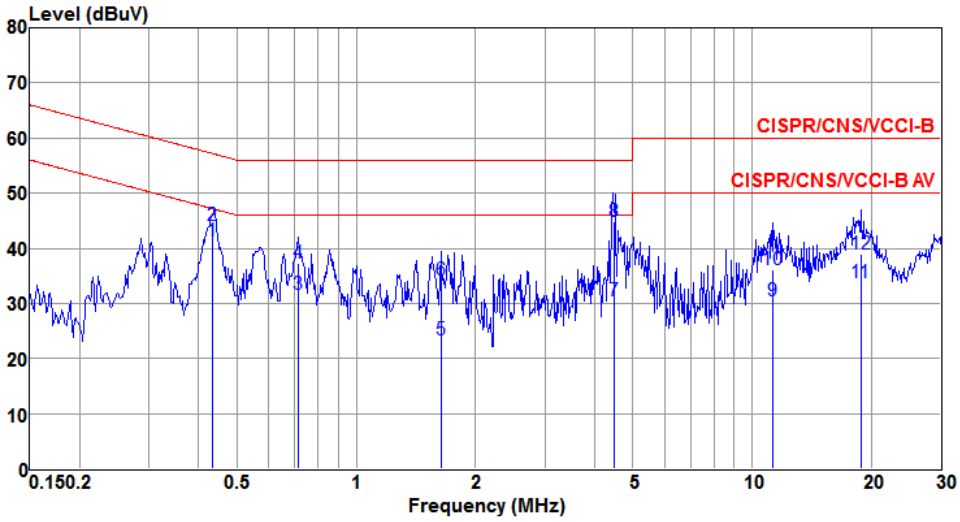
Modulation	VHT40	Test Freq. (MHz)	5230
Power Phase	Line	Test Configuration	1



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.439	39.12	47.09	-7.97	38.94	0.07	0.11	Average
2	0.439	42.45	57.09	-14.64	42.27	0.07	0.11	QP
3	1.568	28.67	46.00	-17.33	28.37	0.09	0.21	Average
4	1.568	33.76	56.00	-22.24	33.46	0.09	0.21	QP
5	4.478	30.15	46.00	-15.85	29.71	0.13	0.31	Average
6	4.478	42.66	56.00	-13.34	42.22	0.13	0.31	QP
7	5.031	30.80	50.00	-19.20	30.35	0.14	0.31	Average
8	5.031	38.34	60.00	-21.66	37.89	0.14	0.31	QP
9	11.076	40.66	50.00	-9.34	40.15	0.23	0.28	Average
10	11.076	45.78	60.00	-14.22	45.27	0.23	0.28	QP
11	18.571	41.11	50.00	-8.89	40.73	0.31	0.07	Average
12	18.571	43.37	60.00	-16.63	42.99	0.31	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).

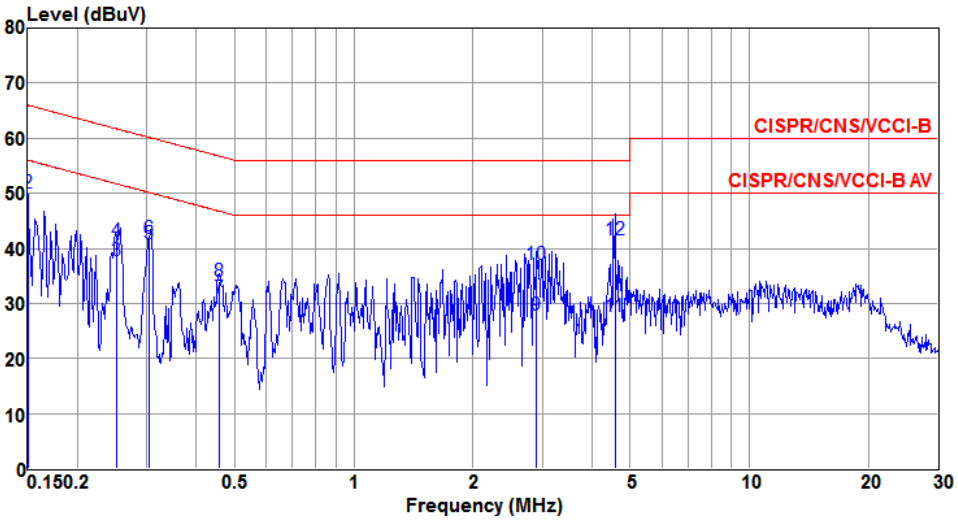
Modulation	VHT40	**Test Freq. (MHz)**	5230
Power Phase	Neutral	**Test Configuration**	1



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.435	41.21	47.16	-5.95	41.03	0.07	0.11	Average
2	0.435	44.13	57.16	-13.03	43.95	0.07	0.11	QP
3	0.712	31.66	46.00	-14.34	31.44	0.08	0.14	Average
4	0.712	37.29	56.00	-18.71	37.07	0.08	0.14	QP
5	1.636	23.45	46.00	-22.55	23.14	0.09	0.22	Average
6	1.636	34.12	56.00	-21.88	33.81	0.09	0.22	QP
7	4.478	30.42	46.00	-15.58	29.97	0.14	0.31	Average
8	4.478	44.90	56.00	-11.10	44.45	0.14	0.31	QP
9	11.257	30.38	50.00	-19.62	29.86	0.25	0.27	Average
10	11.257	36.17	60.00	-23.83	35.65	0.25	0.27	QP
11	18.820	33.81	50.00	-16.19	33.42	0.33	0.06	Average
12	18.820	38.87	60.00	-21.13	38.48	0.33	0.06	QP

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

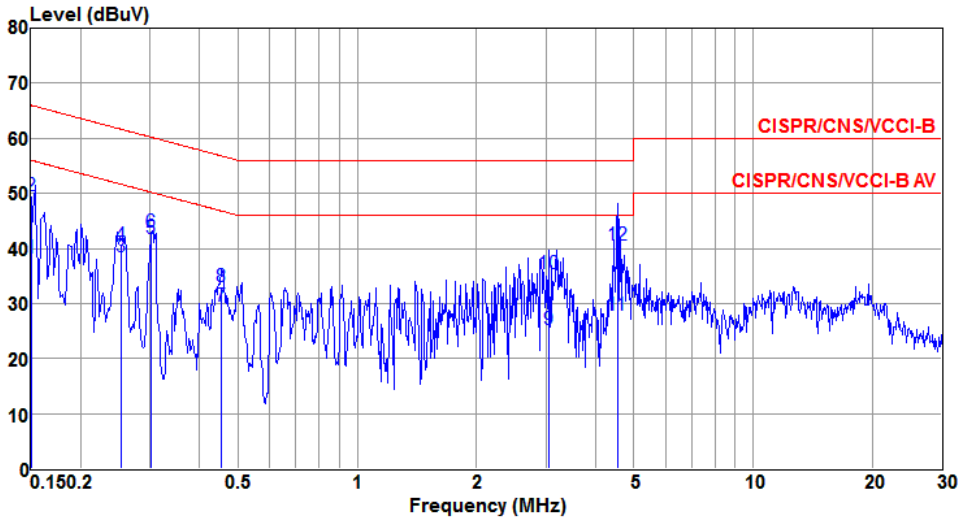
Modulation	VHT20	Test Freq. (MHz)	5785
Power Phase	Line	Test Configuration	1



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	38.38	56.00	-17.62	37.38	0.92	0.08	Average
2	0.150	49.96	66.00	-16.04	48.96	0.92	0.08	QP
3	0.252	37.71	51.70	-13.99	37.38	0.23	0.10	Average
4	0.252	41.39	61.70	-20.31	41.06	0.23	0.10	QP
5*	0.304	40.77	50.13	-9.36	40.46	0.21	0.10	Average
6	0.304	41.85	60.13	-18.28	41.54	0.21	0.10	QP
7	0.456	30.81	46.76	-15.95	30.52	0.17	0.12	Average
8	0.456	33.96	56.76	-22.80	33.67	0.17	0.12	QP
9	2.900	27.83	46.00	-18.17	27.12	0.43	0.28	Average
10	2.900	37.06	56.00	-18.94	36.35	0.43	0.28	QP
11	4.574	27.58	46.00	-18.42	26.95	0.32	0.31	Average
12	4.574	41.55	56.00	-14.45	40.92	0.32	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).

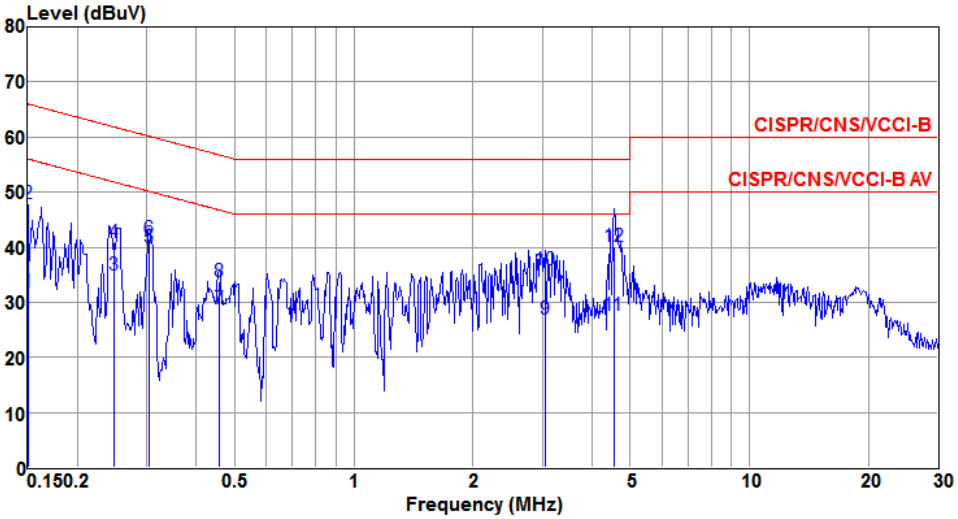
Modulation	VHT20	**Test Freq. (MHz)**	5785
Power Phase	Neutral	**Test Configuration**	1



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	38.16	56.00	-17.84	37.23	0.85	0.08	Average
2	0.150	49.57	66.00	-16.43	48.64	0.85	0.08	QP
3	0.253	38.36	51.65	-13.29	38.06	0.20	0.10	Average
4	0.253	40.49	61.65	-21.16	40.19	0.20	0.10	QP
5*	0.302	41.82	50.18	-8.36	41.55	0.17	0.10	Average
6	0.302	43.00	60.18	-17.18	42.73	0.17	0.10	QP
7	0.454	29.51	46.80	-17.29	29.24	0.15	0.12	Average
8	0.454	33.04	56.80	-23.76	32.77	0.15	0.12	QP
9	3.041	25.31	46.00	-20.69	24.50	0.53	0.28	Average
10	3.041	35.36	56.00	-20.64	34.55	0.53	0.28	QP
11	4.549	27.90	46.00	-18.10	26.88	0.71	0.31	Average
12	4.549	40.54	56.00	-15.46	39.52	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).

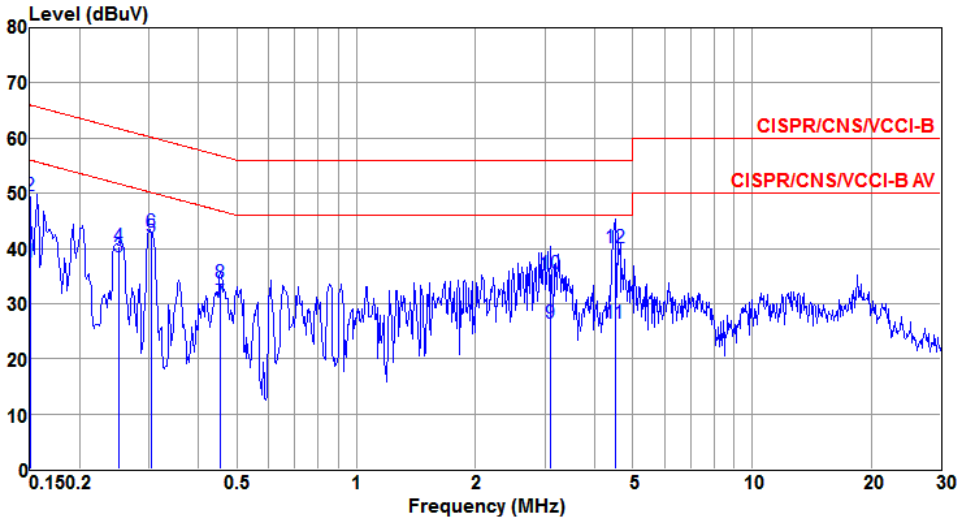
Modulation	VHT40	Test Freq. (MHz)	5230
Power Phase	Line	Test Configuration	2



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	31.78	56.00	-24.22	30.78	0.92	0.08	Average
2	0.150	47.98	66.00	-18.02	46.98	0.92	0.08	QP
3	0.247	35.02	51.87	-16.85	34.69	0.23	0.10	Average
4	0.247	40.78	61.87	-21.09	40.45	0.23	0.10	QP
5*	0.305	39.89	50.11	-10.22	39.58	0.21	0.10	Average
6	0.305	41.61	60.11	-18.50	41.30	0.21	0.10	QP
7	0.456	28.74	46.76	-18.02	28.45	0.17	0.12	Average
8	0.456	33.64	56.76	-23.12	33.35	0.17	0.12	QP
9	3.041	26.85	46.00	-19.15	26.16	0.41	0.28	Average
10	3.041	35.86	56.00	-20.14	35.17	0.41	0.28	QP
11	4.549	27.50	46.00	-18.50	26.88	0.31	0.31	Average
12	4.549	40.02	56.00	-15.98	39.40	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).

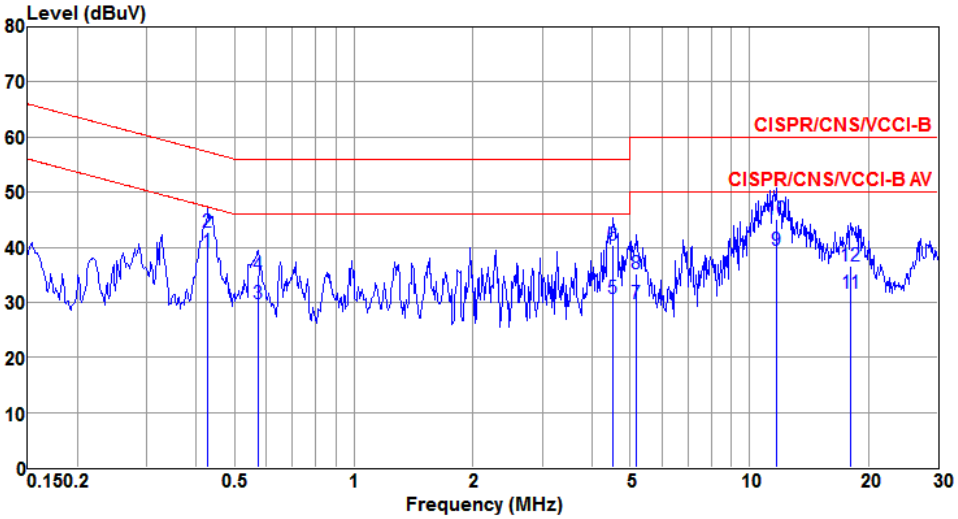
Modulation	VHT40	**Test Freq. (MHz)**	5230
Power Phase	Neutral	**Test Configuration**	2



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	37.50	56.00	-18.50	36.57	0.85	0.08	Average
2	0.150	49.45	66.00	-16.55	48.52	0.85	0.08	QP
3	0.252	38.51	51.69	-13.18	38.21	0.20	0.10	Average
4	0.252	40.42	61.69	-21.27	40.12	0.20	0.10	QP
5*	0.303	42.08	50.16	-8.08	41.81	0.17	0.10	Average
6	0.303	42.99	60.16	-17.17	42.72	0.17	0.10	QP
7	0.454	30.19	46.80	-16.61	29.92	0.15	0.12	Average
8	0.454	33.71	56.80	-23.09	33.44	0.15	0.12	QP
9	3.090	26.50	46.00	-19.50	25.67	0.55	0.28	Average
10	3.090	35.31	56.00	-20.69	34.48	0.55	0.28	QP
11	4.501	26.47	46.00	-19.53	25.45	0.71	0.31	Average
12	4.501	40.03	56.00	-15.97	39.01	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).

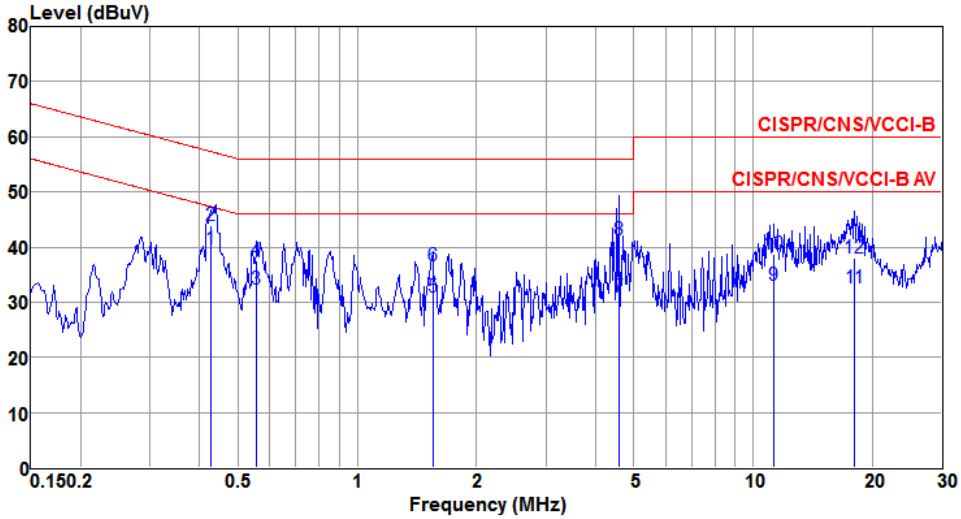
Modulation	VHT20	Test Freq. (MHz)	5785
Power Phase	Line	Test Configuration	2



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.428	39.30	47.29	-7.99	39.12	0.07	0.11	Average
2	0.428	42.83	57.29	-14.46	42.65	0.07	0.11	QP
3	0.573	29.80	46.00	-16.20	29.60	0.07	0.13	Average
4	0.573	34.86	56.00	-21.14	34.66	0.07	0.13	QP
5	4.525	30.74	46.00	-15.26	30.30	0.13	0.31	Average
6	4.525	40.38	56.00	-15.62	39.94	0.13	0.31	QP
7	5.194	29.67	50.00	-20.33	29.21	0.15	0.31	Average
8	5.194	35.16	60.00	-24.84	34.70	0.15	0.31	QP
9	11.683	39.41	50.00	-10.59	38.92	0.23	0.26	Average
10	11.683	45.09	60.00	-14.91	44.60	0.23	0.26	QP
11	18.039	31.60	50.00	-18.40	31.21	0.30	0.09	Average
12	18.039	36.70	60.00	-23.30	36.31	0.30	0.09	QP

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

Modulation	VHT20	Test Freq. (MHz)	5785
Power Phase	Neutral	Test Configuration	2

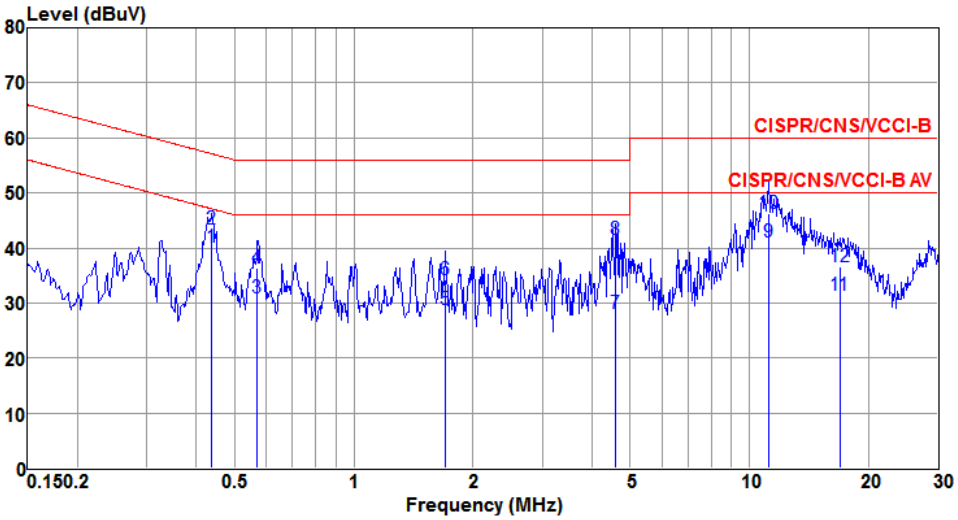


	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.426	39.72	47.33	-7.61	39.54	0.07	0.11	Average
2	0.426	43.89	57.33	-13.44	43.71	0.07	0.11	QP
3	0.558	32.36	46.00	-13.64	32.16	0.07	0.13	Average
4	0.558	37.51	56.00	-18.49	37.31	0.07	0.13	QP
5	1.552	30.84	46.00	-15.16	30.54	0.09	0.21	Average
6	1.552	36.51	56.00	-19.49	36.21	0.09	0.21	QP
7	4.574	30.86	46.00	-15.14	30.41	0.14	0.31	Average
8	4.574	41.32	56.00	-14.68	40.87	0.14	0.31	QP
9	11.257	33.12	50.00	-16.88	32.60	0.25	0.27	Average
10	11.257	38.79	60.00	-21.21	38.27	0.25	0.27	QP
11	18.039	32.63	50.00	-17.37	32.22	0.32	0.09	Average
12	18.039	37.89	60.00	-22.11	37.48	0.32	0.09	QP

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

Beamforming mode

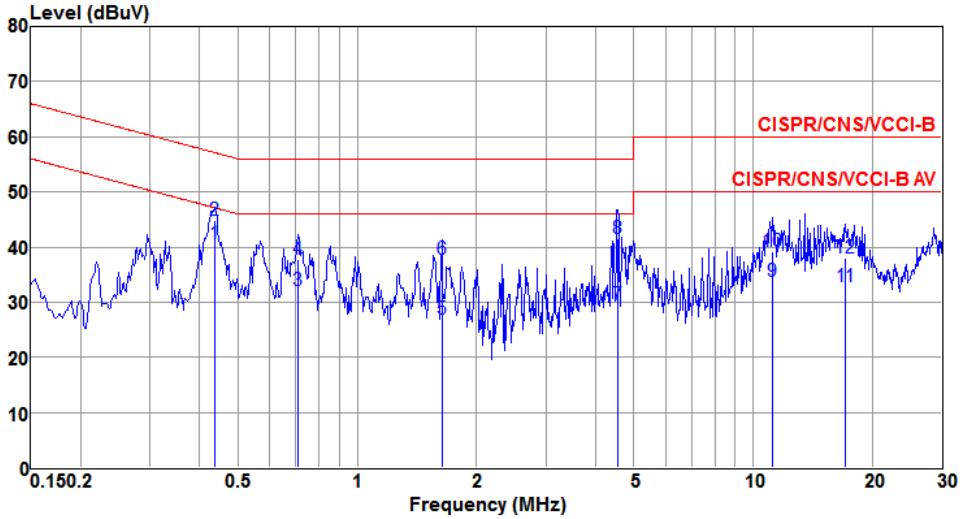
Modulation	VHT20	Test Freq. (MHz)	5200
Power Phase	Line	Test Configuration	3



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.437	40.03	47.11	-7.08	39.85	0.07	0.11	Average
2	0.437	43.33	57.11	-13.78	43.15	0.07	0.11	QP
3	0.570	30.90	46.00	-15.10	30.70	0.07	0.13	Average
4	0.570	36.45	56.00	-19.55	36.25	0.07	0.13	QP
5	1.698	28.91	46.00	-17.09	28.59	0.10	0.22	Average
6	1.698	34.18	56.00	-21.82	33.86	0.10	0.22	QP
7	4.598	28.04	46.00	-17.96	27.60	0.13	0.31	Average
8	4.598	41.65	56.00	-14.35	41.21	0.13	0.31	QP
9	11.198	40.98	50.00	-9.02	40.48	0.23	0.27	Average
10	11.198	46.15	60.00	-13.85	45.65	0.23	0.27	QP
11	16.928	31.43	50.00	-18.57	31.01	0.29	0.13	Average
12	16.928	36.59	60.00	-23.41	36.17	0.29	0.13	QP

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

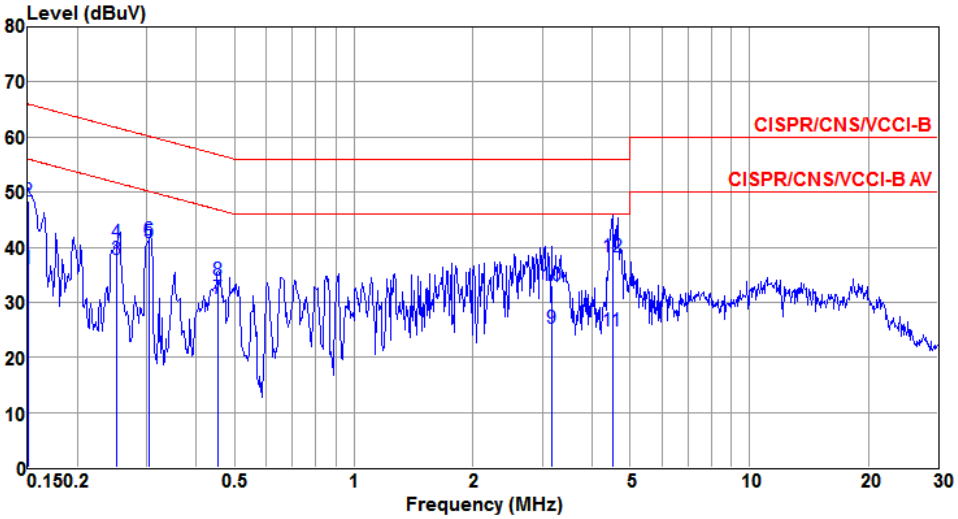
Modulation	VHT20	Test Freq. (MHz)	5200
Power Phase	Neutral	Test Configuration	3



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.437	40.71	47.11	-6.40	40.53	0.07	0.11	Average
2	0.437	44.93	57.11	-12.18	44.75	0.07	0.11	QP
3	0.708	32.22	46.00	-13.78	32.00	0.08	0.14	Average
4	0.708	37.72	56.00	-18.28	37.50	0.08	0.14	QP
5	1.636	26.82	46.00	-19.18	26.51	0.09	0.22	Average
6	1.636	37.84	56.00	-18.16	37.53	0.09	0.22	QP
7	4.549	29.50	46.00	-16.50	29.05	0.14	0.31	Average
8	4.549	41.63	56.00	-14.37	41.18	0.14	0.31	QP
9	11.198	33.87	50.00	-16.13	33.35	0.25	0.27	Average
10	11.198	39.08	60.00	-20.92	38.56	0.25	0.27	QP
11	17.109	32.76	50.00	-17.24	32.32	0.32	0.12	Average
12	17.109	37.96	60.00	-22.04	37.52	0.32	0.12	QP

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

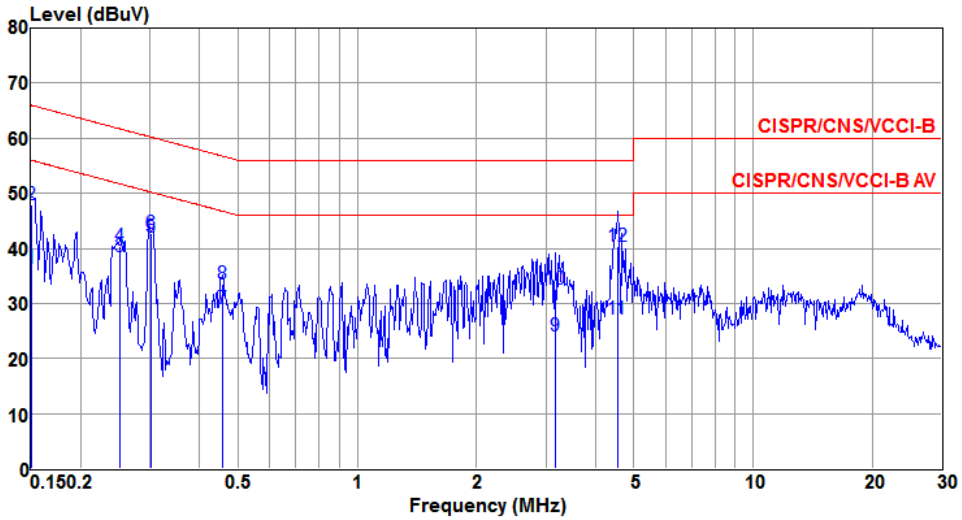
Modulation	HT20	Test Freq. (MHz)	5785
Power Phase	Line	Test Configuration	3



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	36.23	56.00	-19.77	35.23	0.92	0.08	Average
2	0.150	48.46	66.00	-17.54	47.46	0.92	0.08	QP
3	0.251	37.87	51.72	-13.85	37.54	0.23	0.10	Average
4	0.251	40.90	61.72	-20.82	40.57	0.23	0.10	QP
5*	0.303	40.73	50.17	-9.44	40.42	0.21	0.10	Average
6	0.303	41.40	60.17	-18.77	41.09	0.21	0.10	QP
7	0.454	30.66	46.80	-16.14	30.37	0.17	0.12	Average
8	0.454	33.98	56.80	-22.82	33.69	0.17	0.12	QP
9	3.156	25.32	46.00	-20.68	24.64	0.39	0.29	Average
10	3.156	32.93	56.00	-23.07	32.25	0.39	0.29	QP
11	4.501	24.83	46.00	-21.17	24.21	0.31	0.31	Average
12	4.501	38.29	56.00	-17.71	37.67	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).

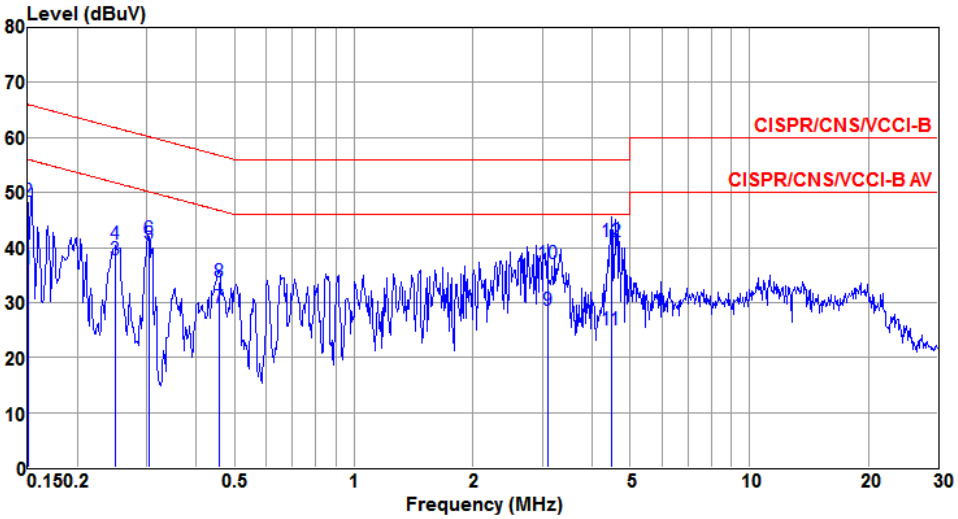
Modulation	HT20	Test Freq. (MHz)	5785
Power Phase	Neutral	Test Configuration	3



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	36.45	56.00	-19.55	35.52	0.85	0.08	Average
2	0.150	47.81	66.00	-18.19	46.88	0.85	0.08	QP
3	0.252	38.37	51.69	-13.32	38.07	0.20	0.10	Average
4	0.252	40.48	61.69	-21.21	40.18	0.20	0.10	QP
5*	0.302	42.09	50.18	-8.09	41.82	0.17	0.10	Average
6	0.302	42.78	60.18	-17.40	42.51	0.17	0.10	QP
7	0.456	29.14	46.76	-17.62	28.87	0.15	0.12	Average
8	0.456	33.53	56.76	-23.23	33.26	0.15	0.12	QP
9	3.156	24.07	46.00	-21.93	23.22	0.56	0.29	Average
10	3.156	32.68	56.00	-23.32	31.83	0.56	0.29	QP
11	4.549	27.05	46.00	-18.95	26.03	0.71	0.31	Average
12	4.549	40.28	56.00	-15.72	39.26	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).

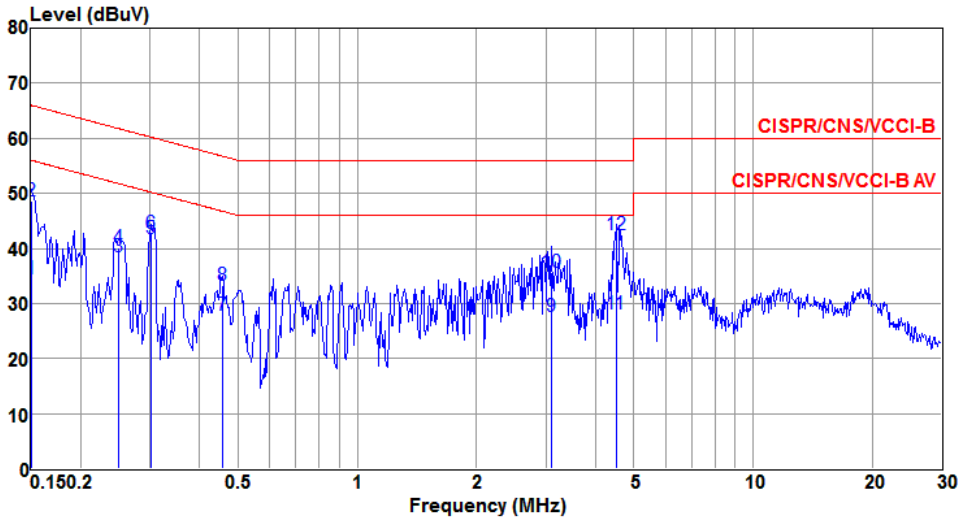
Modulation	VHT20	Test Freq. (MHz)	5200
Power Phase	Line	Test Configuration	4



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	36.01	56.00	-19.99	35.01	0.92	0.08	Average
2	0.150	48.42	66.00	-17.58	47.42	0.92	0.08	QP
3	0.249	37.73	51.78	-14.05	37.40	0.23	0.10	Average
4	0.249	40.69	61.78	-21.09	40.36	0.23	0.10	QP
5*	0.303	40.60	50.17	-9.57	40.29	0.21	0.10	Average
6	0.303	41.46	60.17	-18.71	41.15	0.21	0.10	QP
7	0.456	29.15	46.76	-17.61	28.86	0.17	0.12	Average
8	0.456	33.86	56.76	-22.90	33.57	0.17	0.12	QP
9	3.090	28.59	46.00	-17.41	27.91	0.40	0.28	Average
10	3.090	37.05	56.00	-18.95	36.37	0.40	0.28	QP
11	4.478	24.95	46.00	-21.05	24.33	0.31	0.31	Average
12	4.478	41.02	56.00	-14.98	40.40	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).

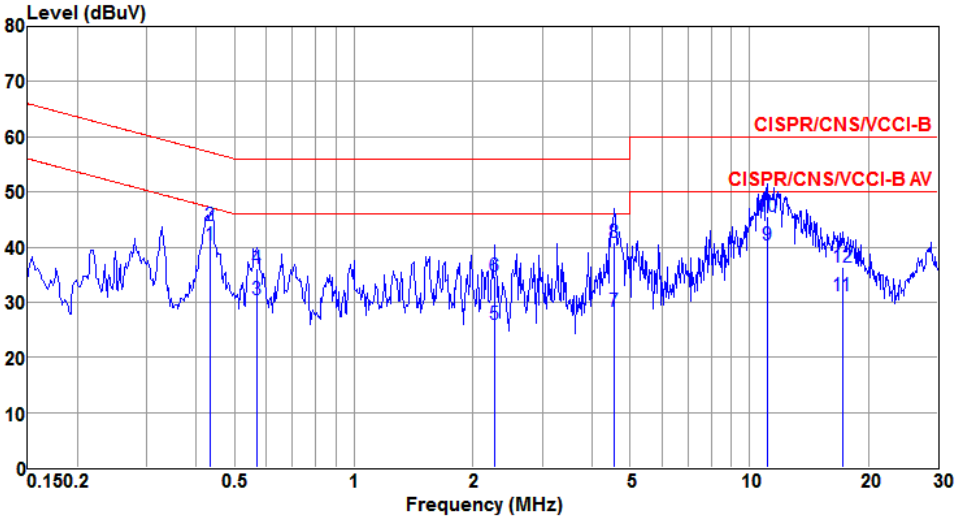
Modulation	VHT20	**Test Freq. (MHz)**	5200
Power Phase	Neutral	**Test Configuration**	4



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1	0.150	34.57	56.00	-21.43	33.64	0.85	0.08	Average
2	0.150	48.59	66.00	-17.41	47.66	0.85	0.08	QP
3	0.250	38.52	51.76	-13.24	38.22	0.20	0.10	Average
4	0.250	40.09	61.76	-21.67	39.79	0.20	0.10	QP
5*	0.302	41.68	50.20	-8.52	41.41	0.17	0.10	Average
6	0.302	42.68	60.20	-17.52	42.41	0.17	0.10	QP
7	0.456	27.92	46.76	-18.84	27.65	0.15	0.12	Average
8	0.456	33.22	56.76	-23.54	32.95	0.15	0.12	QP
9	3.090	27.67	46.00	-18.33	26.84	0.55	0.28	Average
10	3.090	35.61	56.00	-20.39	34.78	0.55	0.28	QP
11	4.508	28.08	46.00	-17.92	27.06	0.71	0.31	Average
12	4.508	42.44	56.00	-13.56	41.42	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).

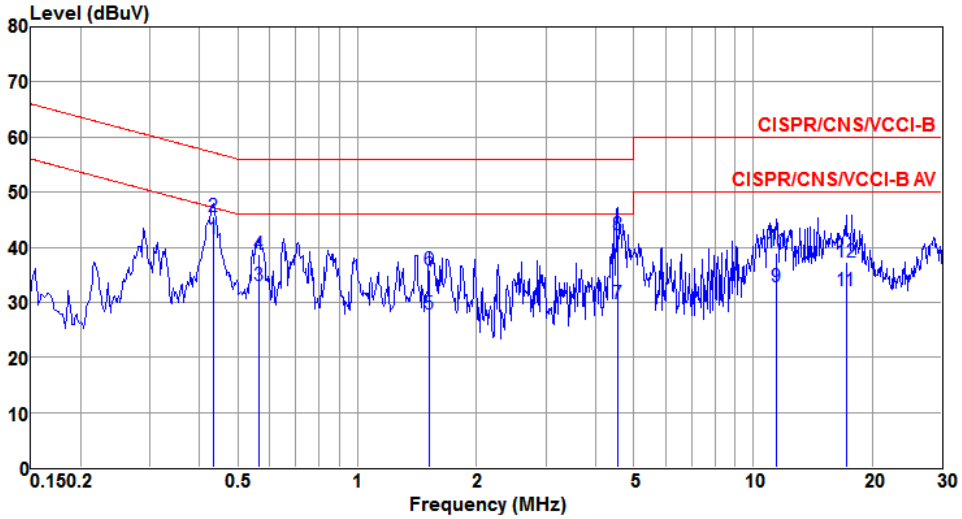
Modulation	HT20	Test Freq. (MHz)	5785
Power Phase	Line	Test Configuration	4



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.433	40.42	47.20	-6.78	40.24	0.07	0.11	Average
2	0.433	43.96	57.20	-13.24	43.78	0.07	0.11	QP
3	0.570	30.56	46.00	-15.44	30.36	0.07	0.13	Average
4	0.570	36.15	56.00	-19.85	35.95	0.07	0.13	QP
5	2.273	26.02	46.00	-19.98	25.67	0.10	0.25	Average
6	2.273	34.60	56.00	-21.40	34.25	0.10	0.25	QP
7	4.549	28.23	46.00	-17.77	27.79	0.13	0.31	Average
8	4.549	40.82	56.00	-15.18	40.38	0.13	0.31	QP
9	11.139	40.44	50.00	-9.56	39.94	0.23	0.27	Average
10	11.139	45.63	60.00	-14.37	45.13	0.23	0.27	QP
11	17.199	31.23	50.00	-18.77	30.81	0.30	0.12	Average
12	17.199	36.41	60.00	-23.59	35.99	0.30	0.12	QP

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

Modulation	HT20	Test Freq. (MHz)	5785
Power Phase	Neutral	Test Configuration	4



	Freq	Level	Limit Line	Over Limit	Read Level	LISN factor	cable loss	Remark
	MHz	dBuV	dBuV	dB	dBuV	dB	dB	
1*	0.434	41.61	47.17	-5.56	41.43	0.07	0.11	Average
2	0.434	45.65	57.17	-11.52	45.47	0.07	0.11	QP
3	0.564	33.09	46.00	-12.91	32.89	0.07	0.13	Average
4	0.564	38.63	56.00	-17.37	38.43	0.07	0.13	QP
5	1.519	27.82	46.00	-18.18	27.52	0.09	0.21	Average
6	1.519	35.88	56.00	-20.12	35.58	0.09	0.21	QP
7	4.549	29.71	46.00	-16.29	29.26	0.14	0.31	Average
8	4.549	42.37	56.00	-13.63	41.92	0.14	0.31	QP
9	11.438	32.80	50.00	-17.20	32.28	0.25	0.27	Average
10	11.438	38.89	60.00	-21.11	38.37	0.25	0.27	QP
11	17.199	32.16	50.00	-17.84	31.72	0.32	0.12	Average
12	17.199	37.25	60.00	-22.75	36.81	0.32	0.12	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.

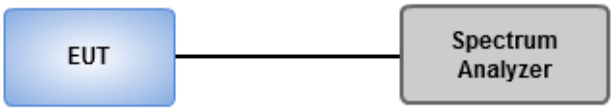
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW
2. Set VBW ≥ 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

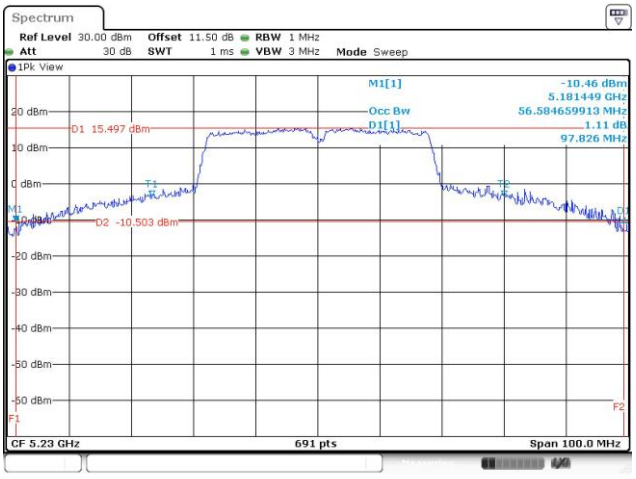
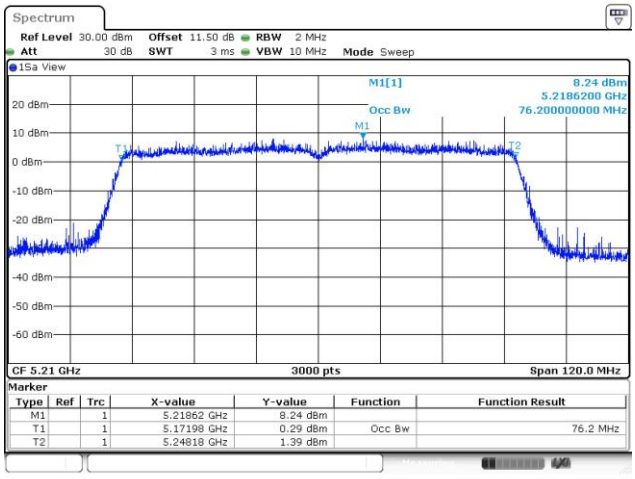
3.2.3 Test Setup



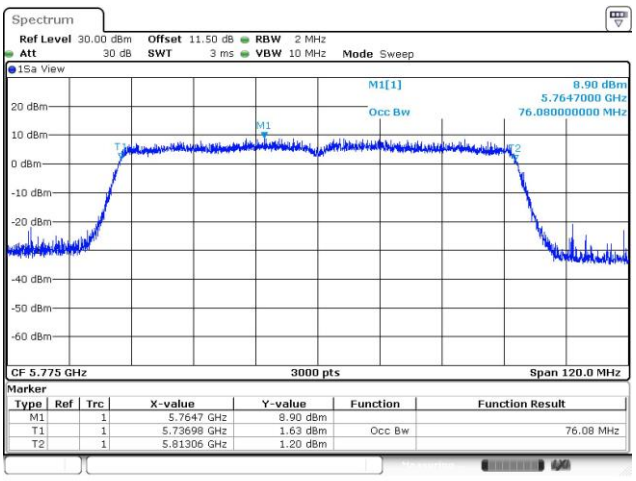
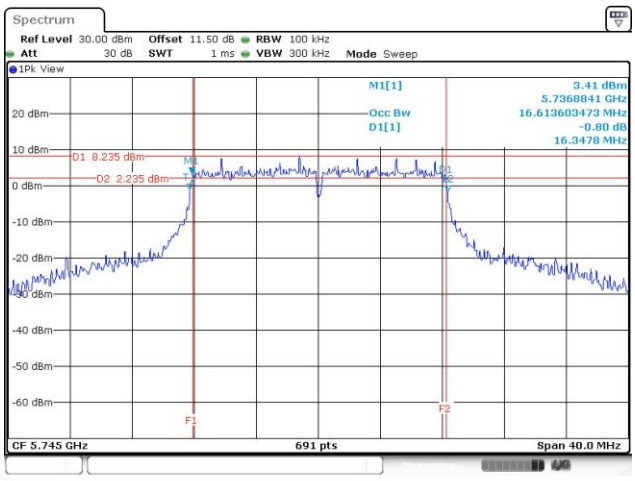
3.2.4 Test Result of Emission Bandwidth

Non-beamforming mode - Test Configuration 1

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	1	5180	43.62	---	---	---	19.86	---	---	---
11a	1	5200	43.77	---	---	---	19.58	---	---	---
11a	1	5240	43.62	---	---	---	19.62	---	---	---
VHT20	2	5180	41.74	42.10	---	---	18.16	18.08	---	---
VHT20	2	5200	48.70	43.99	---	---	19.61	19.41	---	---
VHT20	2	5240	47.90	43.99	---	---	19.50	19.42	---	---
VHT40	2	5190	41.04	41.16	---	---	36.52	36.52	---	---
VHT40	2	5230	97.83	93.48	---	---	38.56	38.34	---	---
VHT80	2	5210	82.78	82.32	---	---	76.20	76.12	---	---

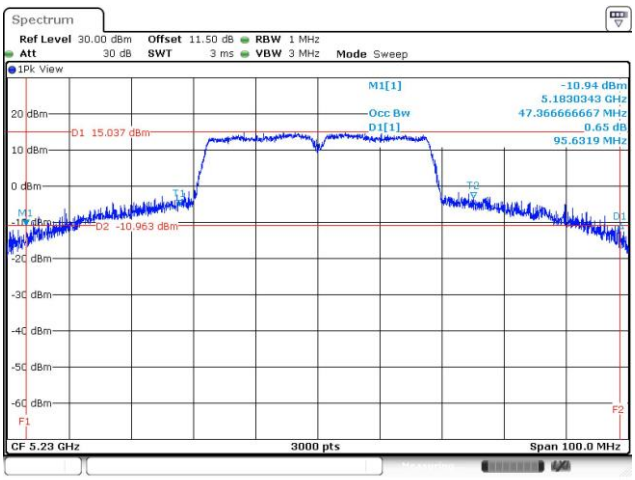
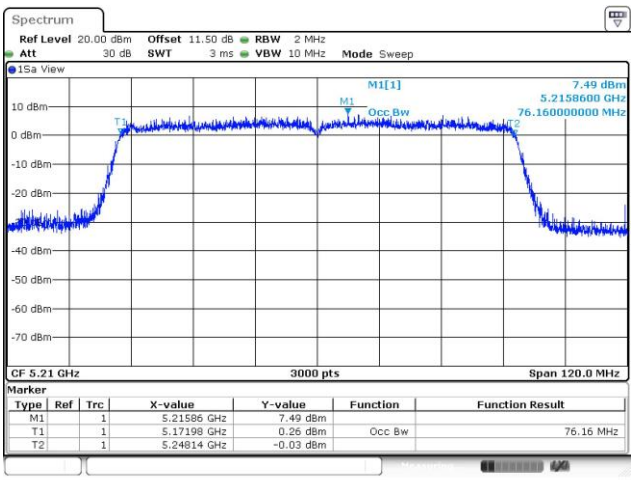
Worst Plot of 26dB Bandwidth	Worst Plot of 99% Bandwidth
	

For Frequency band 5725-5850 MHz											
Emission Bandwidth											
Mode	N_{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	6dB BW Limit (MHz)
11a	1	5745	17.15	---	---	---	16.35	---	---	---	0.5
11a	1	5785	19.92	---	---	---	16.35	---	---	---	0.5
11a	1	5825	17.27	---	---	---	16.35	---	---	---	0.5
VHT20	2	5745	18.04	17.89	---	---	17.57	17.57	---	---	0.5
VHT20	2	5785	24.70	24.06	---	---	17.57	17.62	---	---	0.5
VHT20	2	5825	18.00	17.88	---	---	17.57	17.57	---	---	0.5
VHT40	2	5755	36.54	36.48	---	---	36.29	36.29	---	---	0.5
VHT40	2	5795	36.88	36.76	---	---	36.29	36.29	---	---	0.5
VHT80	2	5775	76.08	76.08	---	---	75.13	76.06	---	---	0.5

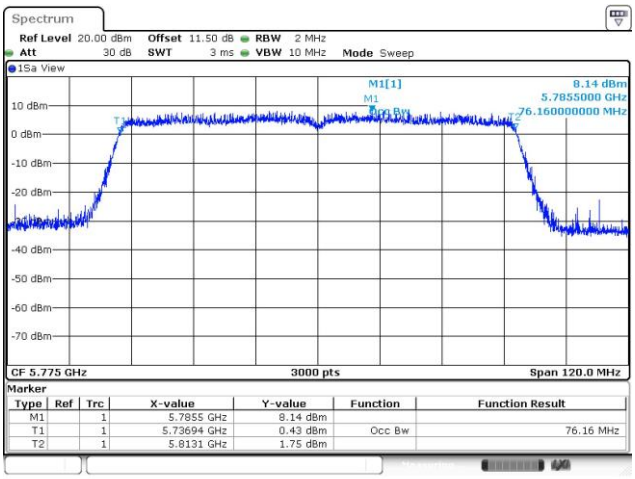
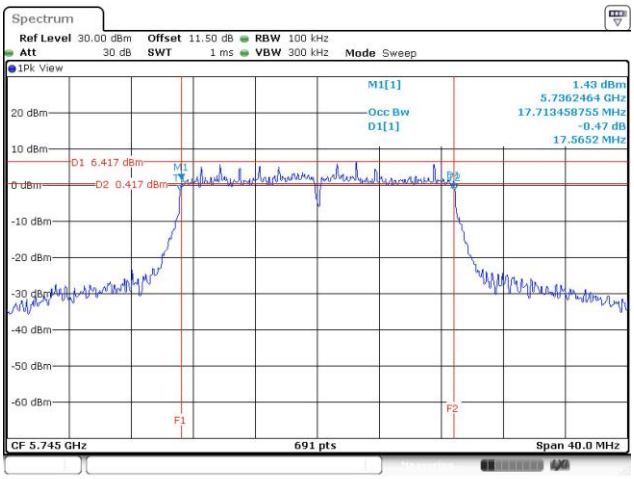
Worst Plot of 99% Bandwidth	Worst Plot of 6dB Bandwidth
	

Beamforming mode - Test Configuration 3

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
VHT20	2	5180	40.48	34.31	---	---	18.11	17.93	---	---
VHT20	2	5200	46.53	40.58	---	---	19.91	18.65	---	---
VHT20	2	5240	29.00	26.92	---	---	17.97	17.84	---	---
VHT40	2	5190	41.00	40.71	---	---	36.52	36.56	---	---
VHT40	2	5230	95.63	88.83	---	---	38.04	37.26	---	---
VHT80	2	5210	82.85	82.64	---	---	76.12	76.16	---	---

Worst Plot of 26dB Bandwidth	Worst Plot of 99% Bandwidth
	

For Frequency band 5725-5850 MHz											
Emission Bandwidth											
Mode	N_{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	6dB BW Limit (MHz)
VHT20	2	5745	17.94	17.84	---	---	17.57	17.57	---	---	0.5
VHT20	2	5785	19.30	19.22	---	---	17.57	17.62	---	---	0.5
VHT20	2	5825	17.96	17.83	---	---	17.57	17.57	---	---	0.5
VHT40	2	5755	36.52	36.50	---	---	36.33	36.33	---	---	0.5
VHT40	2	5795	36.80	36.78	---	---	36.31	36.33	---	---	0.5
VHT80	2	5775	76.16	76.08	---	---	75.55	76.29	---	---	0.5

Worst Plot of 99% Bandwidth	Worst Plot of 6dB Bandwidth
	

3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	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)
☒	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☐	Mobile and portable client devices	Conducted Power: 250 mW

Frequency Band (MHz)		**Limit**
☐	5250 ~ 5350	250mW or 11dBm+10 log B
☐	5470 ~ 5725	250mW or 11dBm+10 log B
☒	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 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

Non-beamforming mode - Test Configuration 1

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	1	5180	21.03	---	---	---	126.765	21.03	30.00
11a	1	5200	21.37	---	---	---	137.088	21.37	30.00
11a	1	5240	21.52	---	---	---	141.906	21.52	30.00
HT20	2	5180	18.91	18.86	---	---	154.717	21.90	30.00
HT20	2	5200	20.50	20.38	---	---	221.346	23.45	30.00
HT20	2	5240	20.70	20.51	---	---	229.950	23.62	30.00
HT40	2	5190	14.30	14.12	---	---	52.738	17.22	30.00
HT40	2	5230	20.63	20.57	---	---	229.636	23.61	30.00
VHT20	2	5180	19.05	18.99	---	---	159.603	22.03	30.00
VHT20	2	5200	20.58	20.46	---	---	225.461	23.53	30.00
VHT20	2	5240	20.73	20.55	---	---	231.805	23.65	30.00
VHT40	2	5190	14.36	14.22	---	---	53.714	17.30	30.00
VHT40	2	5230	20.79	20.62	---	---	235.295	**23.72**	30.00
VHT80	2	5210	12.10	12.06	---	---	32.288	15.09	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	1	5745	19.45	---	---	---	88.105	19.45	30.00
11a	1	5785	22.76	---	---	---	188.799	22.76	30.00
11a	1	5825	19.52	---	---	---	89.536	19.52	30.00
HT20	2	5745	18.36	18.24	---	---	135.229	21.31	30.00
HT20	2	5785	22.64	22.41	---	---	357.835	25.54	30.00
HT20	2	5825	18.10	18.11	---	---	129.280	21.12	30.00
HT40	2	5755	15.01	15.08	---	---	63.906	18.06	30.00
HT40	2	5795	19.12	19.03	---	---	161.642	22.09	30.00
VHT20	2	5745	18.55	18.56	---	---	143.394	21.57	30.00
VHT20	2	5785	22.72	22.45	---	---	362.861	**25.60**	30.00
VHT20	2	5825	18.31	18.26	---	---	134.753	21.30	30.00
VHT40	2	5755	15.12	15.18	---	---	65.470	18.16	30.00
VHT40	2	5795	19.28	19.22	---	---	168.283	22.26	30.00
VHT80	2	5775	13.12	13.26	---	---	41.695	16.20	30.00

Beamforming mode - Test Configuration 3

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			
HT20	2	5180	18.79	18.73	---	---	150.328	21.77	27.79
HT20	2	5200	21.02	20.77	---	---	245.872	23.91	27.79
HT20	2	5240	18.03	17.87	---	---	124.768	20.96	27.79
HT40	2	5190	13.48	13.35	---	---	43.912	16.43	27.79
HT40	2	5230	21.01	20.42	---	---	236.337	23.74	27.79
VHT20	2	5180	18.88	18.82	---	---	153.476	21.86	27.79
VHT20	2	5200	21.16	20.89	---	---	253.361	**24.04**	27.79
VHT20	2	5240	18.11	17.97	---	---	127.376	21.05	27.79
VHT40	2	5190	13.55	13.47	---	---	44.880	16.52	27.79
VHT40	2	5230	21.12	20.58	---	---	243.707	23.87	27.79
VHT80	2	5210	11.92	11.83	---	---	30.800	14.89	27.79

Note:

1. Directional gain = 10 * log((10$^{5.28/20}$+10$^{5.12/20}$)^2/2)=8.21 dBi > 6 dBi.
   Limit shall be reduced to 30 dBm – (8.21 dBi – 6 dBi) = 27.79 dBm

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			
HT20	2	5745	17.12	17.03	---	---	101.989	20.09	27.80
HT20	2	5785	23.14	22.68	---	---	391.416	**25.93**	27.80
HT20	2	5825	18.35	18.15	---	---	133.704	21.26	27.80
HT40	2	5755	15.15	14.79	---	---	62.864	17.98	27.80
HT40	2	5795	19.23	19.02	---	---	163.552	22.14	27.80
VHT20	2	5745	17.18	17.09	---	---	103.408	20.15	27.80
VHT20	2	5785	22.91	22.69	---	---	381.214	25.81	27.80
VHT20	2	5825	18.34	18.16	---	---	133.697	21.26	27.80
VHT40	2	5755	15.26	14.88	---	---	64.335	18.08	27.80
VHT40	2	5795	19.22	19.01	---	---	163.176	22.13	27.80
VHT80	2	5775	12.99	12.79	---	---	38.918	15.90	27.80

Note:

1. Directional gain = 10 * log((10$^{5.1/20}$+10$^{5.28/20}$)^2/2)=8.2 dBi > 6 dBi.
   Limit shall be reduced to 30 dBm – (8.2 dBi – 6 dBi) = 27.80 dBm

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	Outdoor access point	17 dBm / MHz
☒	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☐	Mobile and portable client devices	11 dBm / MHz

Frequency Band (MHz)		**Limit**
☐	5250 ~ 5350	11 dBm / MHz
☐	5470 ~ 5725	11 dBm / MHz
☒	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

For 5150 ~ 5250 MHz

☒ Method SA-1 (Non- Beamforming: 802.11a/VHT20/VHT40 / Beamforming: 11ac VHT40 / VHT80)

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 (Non- Beamforming: VHT80 / Beamforming: 11ac VHT20)

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (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

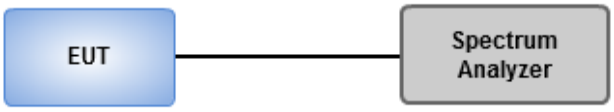
☒ Method SA-1 (Non- Beamforming: 802.11a/VHT20/VHT40 / Beamforming: 11ac VHT40 / VHT80)

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 (Non- Beamforming: VHT80 / Beamforming: 11ac VHT20)

1. Set RBW = 500 kHz, VBW = 2 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (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



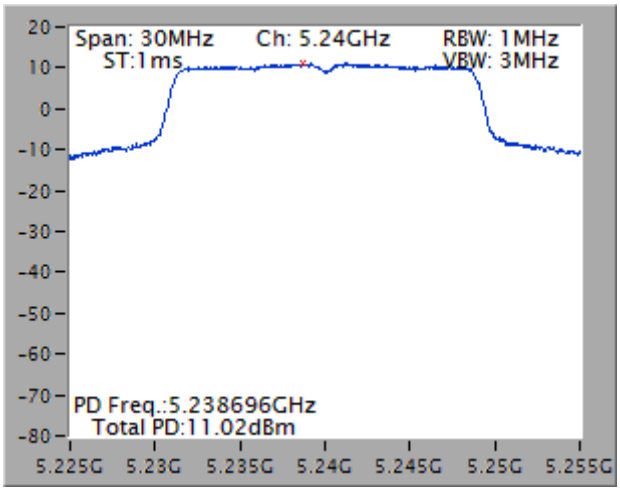
3.4.4 Test Result of Peak Power Spectral Density

Non-beamforming mode **- Test Configuration 1**

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	1	5180	8.49	0.00	8.49	17
11a	1	5200	8.69	0.00	8.69	17
11a	1	5240	9.07	0.00	9.07	17
VHT20	2	5180	8.97	0.00	8.97	14.79
VHT20	2	5200	10.93	0.00	10.93	14.79
VHT20	2	5240	11.02	0.00	11.02	14.79
VHT40	2	5190	1.15	0.00	1.15	14.79
VHT40	2	5230	8.03	0.00	8.03	14.79
VHT80	2	5210	-4.33	0.21	-4.12	14.79

Note:
1. D.F is duty factor.
2. Test result of 2TX mode is bin-by-bin summing measured value of each TX port.
3. Directional gain = 10 * log((10$^{5.28/20}$+10$^{5.12/20}$)^2/2) = 8.21 dBi > 6 dBi.
   Limit shall be reduced to 17 dBm – (8.21 dBi – 6 dBi) = 14.79dBm.

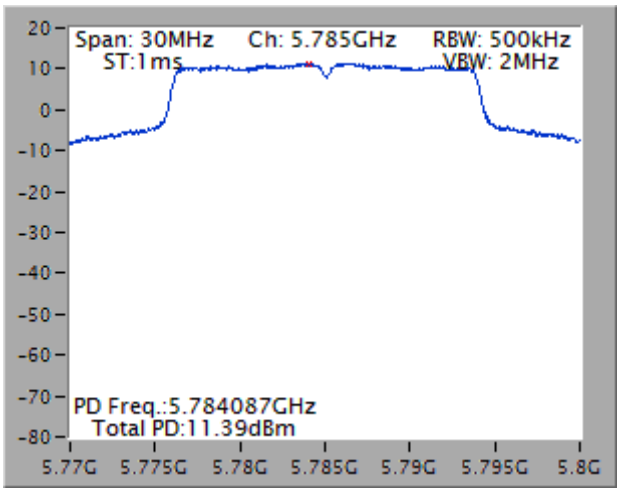
Worst Plot



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	1	5745	5.90	0.00	5.90	30.00
11a	1	5785	7.42	0.00	7.42	30.00
11a	1	5825	6.20	0.00	6.20	30.00
VHT20	2	5745	7.40	0.00	7.40	27.80
VHT20	2	5785	11.39	0.00	11.39	27.80
VHT20	2	5825	7.18	0.00	7.18	27.80
VHT40	2	5755	0.84	0.00	0.84	27.80
VHT40	2	5795	5.00	0.00	5.00	27.80
VHT80	2	5775	-4.70	0.21	-4.49	27.80

Note:
1. D.F is duty factor.
2. Test result of 2TX mode is bin-by-bin summing measured value of each TX port.
3. Directional gain = 10 * log((10$^{5.1/20}$+10$^{5.28/20}$)^2/2) = 8.2 dBi > 6 dBi.
   Limit shall be reduced to 30 dBm – (8.2 dBi – 6 dBi) = 27.8dBm.

Worst Plot

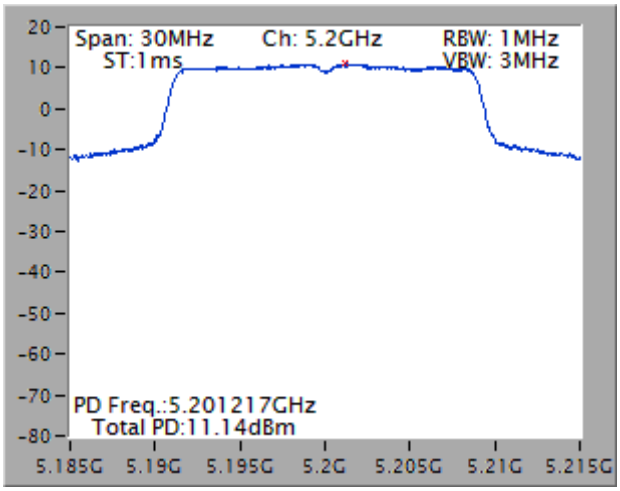


Beamforming mode - Test Configuration 3

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)
VHT20	2	5180	8.94	0.28	9.22	14.79
VHT20	2	5200	11.14	0.28	11.42	14.79
VHT20	2	5240	8.40	0.28	8.68	14.79
VHT40	2	5190	0.49	0.00	0.49	14.79
VHT40	2	5230	8.22	0.00	8.22	14.79
VHT80	2	5210	-4.31	0.00	-4.31	14.79

Note:
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = 10 * log((10$^{5.28/20}$+10$^{5.12/20}$)^2/2) = 8.21 dBi > 6 dBi.
   Limit shall be reduced to 17 dBm – (8.21 dBi – 6 dBi) = 14.79 dBm.

Worst Plot

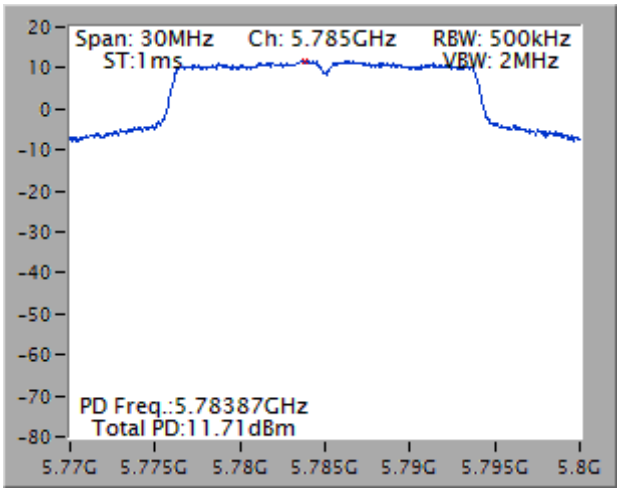


Note: The plot without duty factor.

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)
VHT20	2	5745	6.20	0.28	6.48	27.80
VHT20	2	5785	11.71	0.28	11.99	27.80
VHT20	2	5825	6.84	0.28	7.12	27.80
VHT40	2	5755	0.83	0.00	0.83	27.80
VHT40	2	5795	5.00	0.00	5.00	27.80
VHT80	2	5775	-4.39	0.00	-4.39	27.80

Note:
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. Directional gain = 10 * log((10$^{5.1/20}$+10$^{5.28/20}$)^2/2) = 8.2 dBi > 6 dBi.
   Limit shall be reduced to 30 dBm – (8.2 dBi – 6 dBi) = 27.8dBm.

Worst Plot



Note: The plot without duty factor.

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

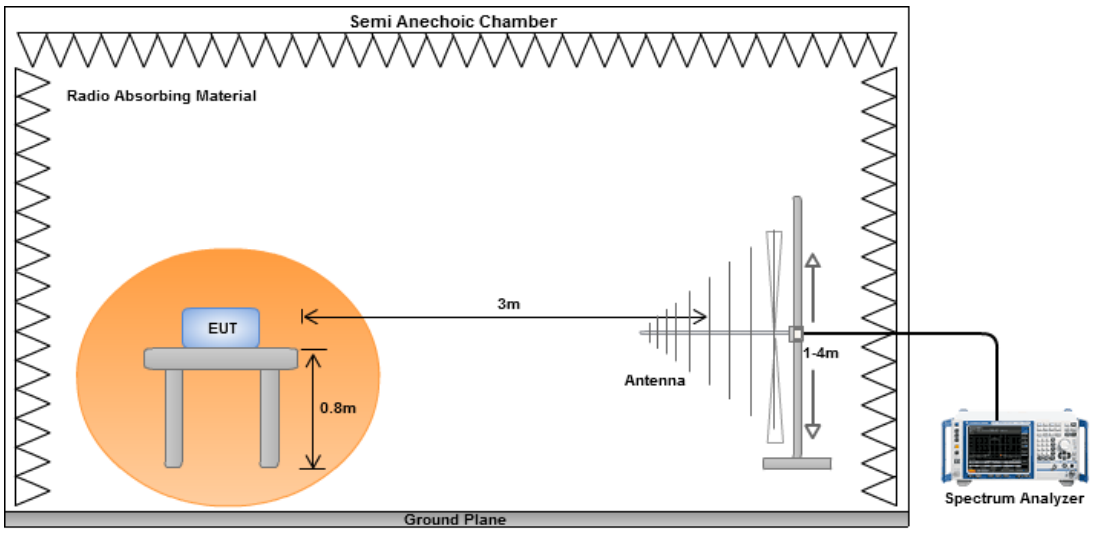
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

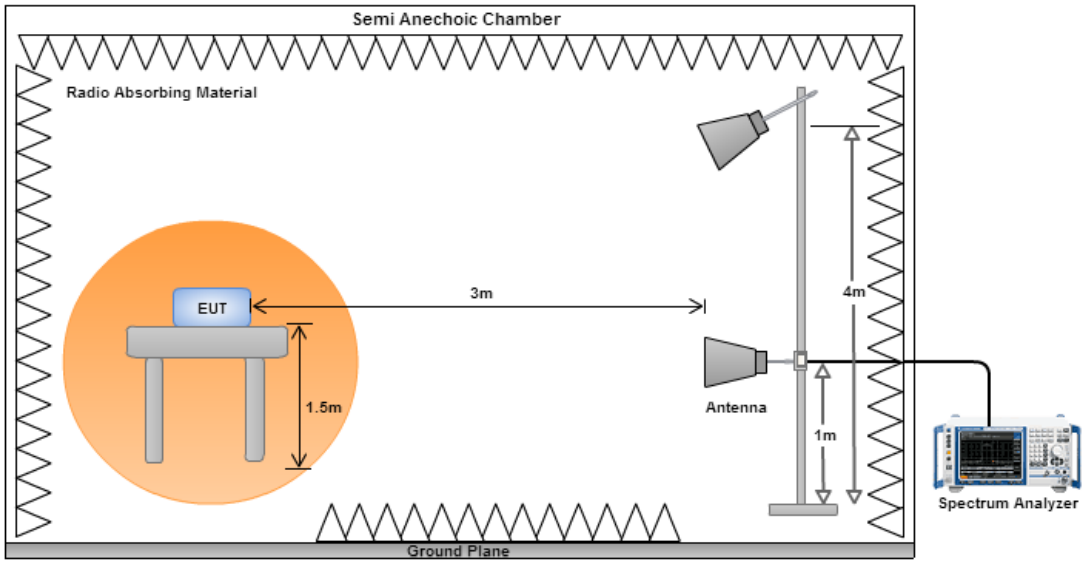
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



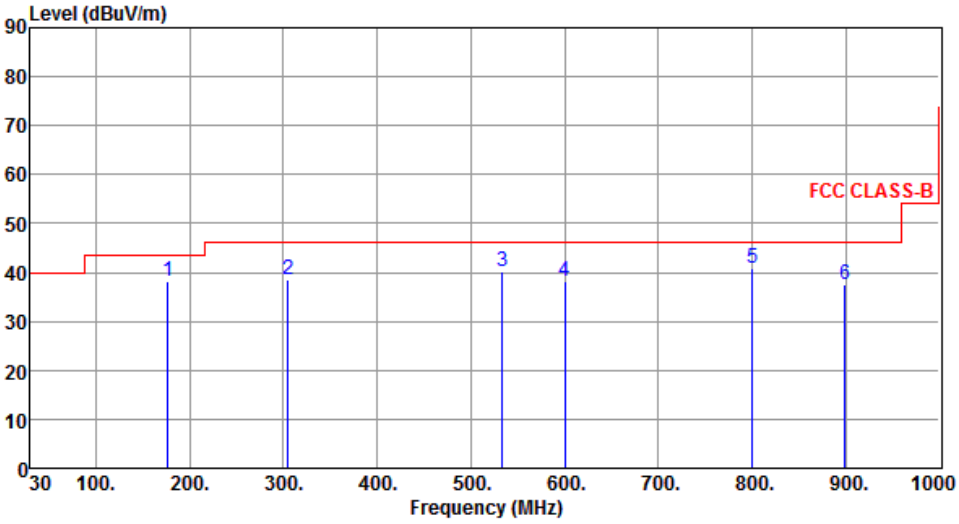
Radiated Emissions above 1 GHz



Non- beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

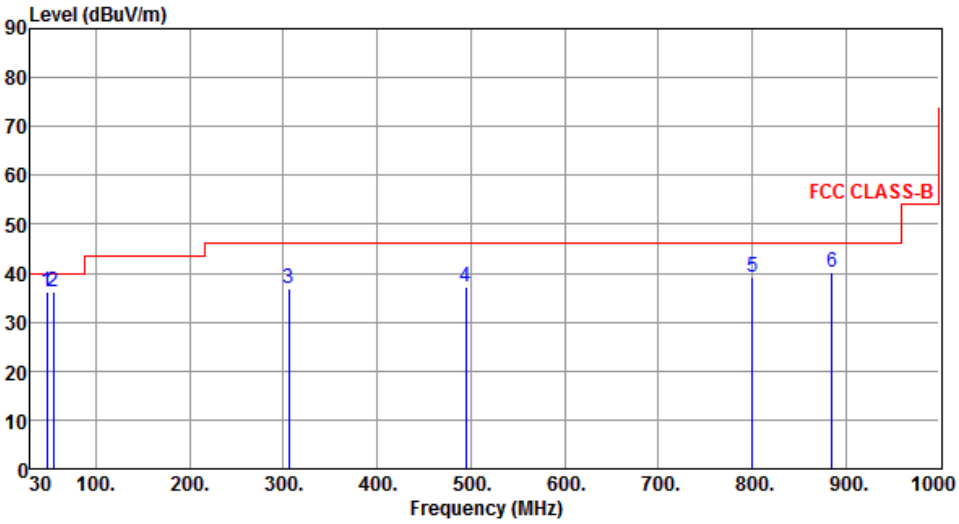
Modulation	VHT40	**Test Freq. (MHz)**	5230
Polarization	Horizontal	**Test Configuration**	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	176.47	38.26	43.50	-5.24	53.12	-14.86	Peak	---	---
2	304.51	38.43	46.00	-7.57	50.97	-12.54	Peak	---	---
3	533.43	40.33	46.00	-5.67	47.59	-7.26	Peak	---	---
4	600.36	38.29	46.00	-7.71	44.01	-5.72	Peak	---	---
5	800.18	40.76	46.00	-5.24	43.32	-2.56	Peak	---	---
6	899.12	37.56	46.00	-8.44	38.24	-0.68	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.

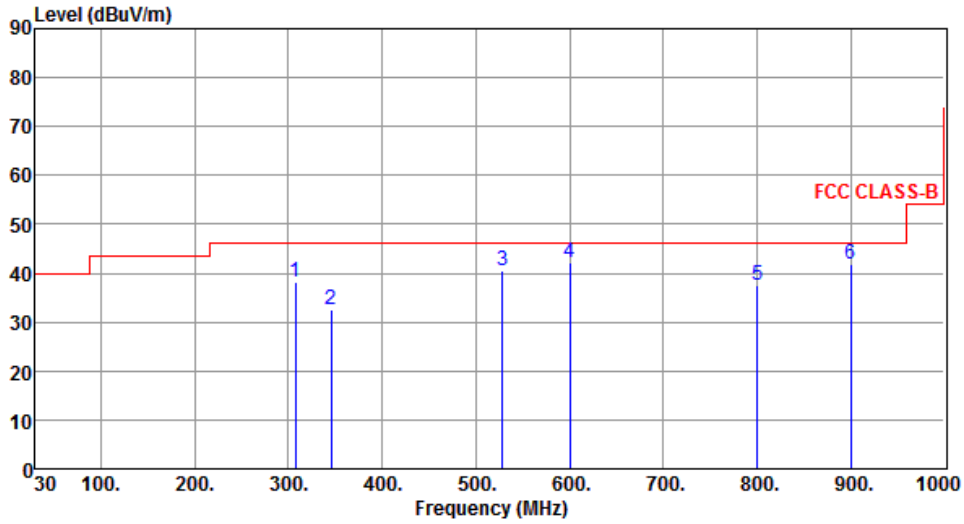
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	47.46	36.21	40.00	-3.79	49.09	-12.88	QP	---	---
2	54.97	36.17	40.00	-3.83	49.79	-13.62	QP	---	---
3	305.48	36.74	46.00	-9.26	49.25	-12.51	Peak	---	---
4	494.63	37.25	46.00	-8.75	45.02	-7.77	Peak	---	---
5	800.18	39.16	46.00	-6.84	41.72	-2.56	Peak	---	---
6	885.54	40.25	46.00	-5.75	41.22	-0.97	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.

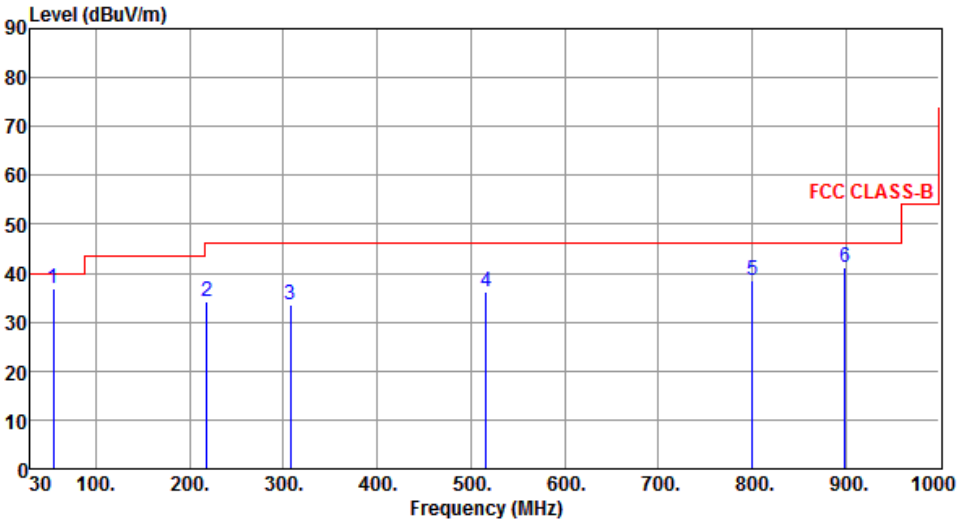
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	307.42	38.25	46.00	-7.75	50.71	-12.46	Peak	---	---
2	345.25	32.45	46.00	-13.55	44.02	-11.57	Peak	---	---
3	528.58	40.53	46.00	-5.47	47.84	-7.31	Peak	---	---
4	600.36	42.34	46.00	-3.66	48.06	-5.72	Peak	---	---
5	800.18	37.50	46.00	-8.50	40.06	-2.56	Peak	---	---
6	900.09	41.76	46.00	-4.24	42.43	-0.67	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.

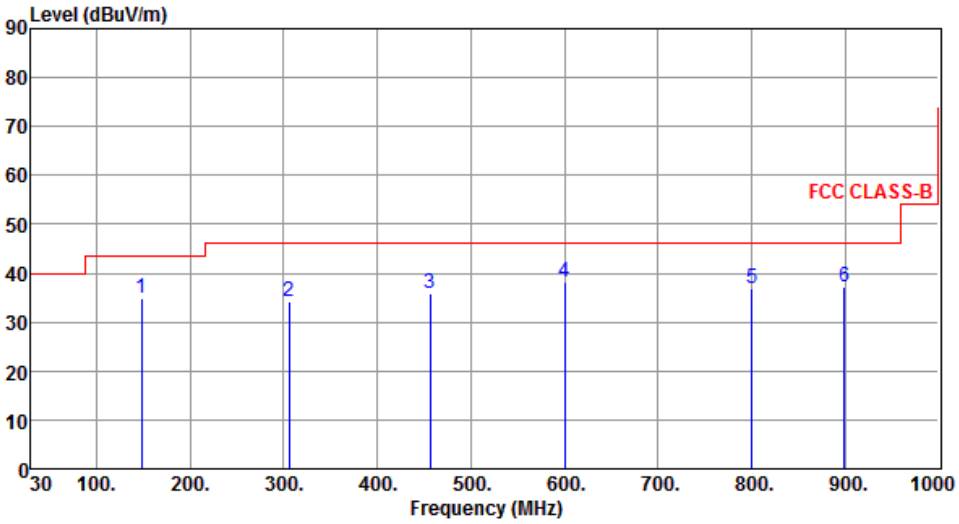
Modulation	VHT20	**Test Freq. (MHz)**	5785
Polarization	Vertical	**Test Configuration**	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	54.25	36.85	40.00	-3.15	50.37	-13.52	QP	---	---
2	218.18	34.17	46.00	-11.83	50.23	-16.06	Peak	---	---
3	307.42	33.59	46.00	-12.41	46.05	-12.46	Peak	---	---
4	515.97	36.09	46.00	-9.91	43.54	-7.45	Peak	---	---
5	800.18	38.48	46.00	-7.52	41.04	-2.56	Peak	---	---
6	899.12	41.28	46.00	-4.72	41.96	-0.68	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.

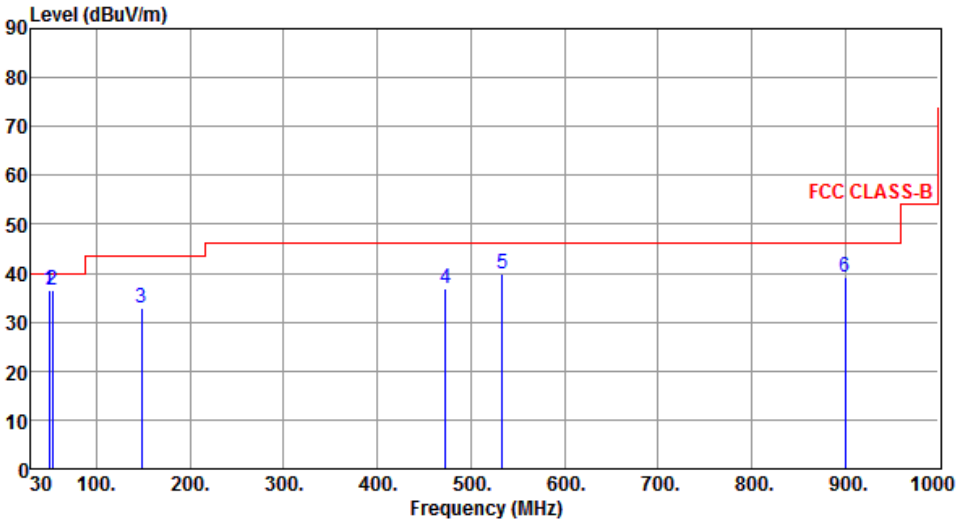
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	148.34	34.95	43.50	-8.55	48.42	-13.47	Peak	---	---
2	305.48	34.06	46.00	-11.94	46.57	-12.51	Peak	---	---
3	456.80	35.97	46.00	-10.03	44.59	-8.62	Peak	---	---
4	600.36	38.28	46.00	-7.72	44.00	-5.72	Peak	---	---
5	800.18	37.02	46.00	-8.98	39.58	-2.56	Peak	---	---
6	899.12	37.25	46.00	-8.75	37.93	-0.68	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.

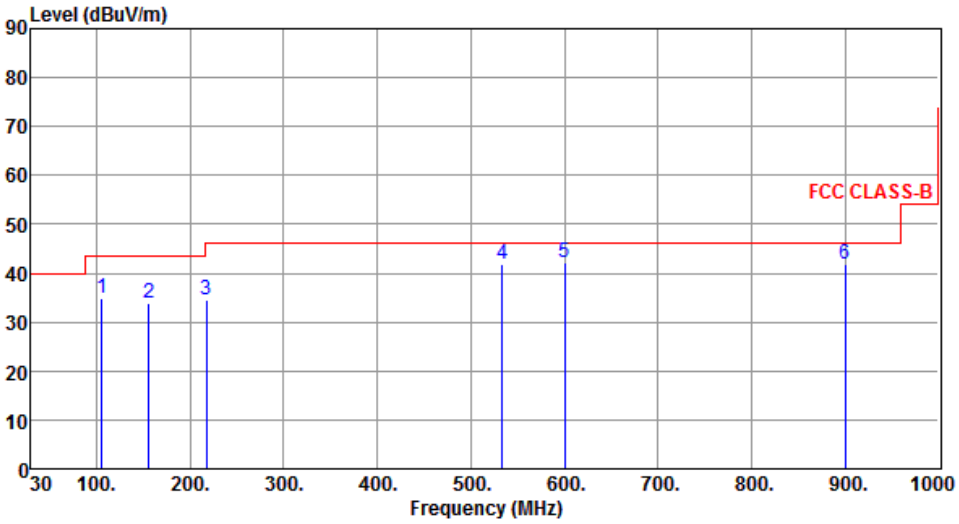
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	49.40	36.46	40.00	-3.54	49.40	-12.94	QP	---	---
2	53.28	36.50	40.00	-3.50	49.90	-13.40	QP	---	---
3	148.34	33.04	43.50	-10.46	46.51	-13.47	Peak	---	---
4	473.29	36.86	46.00	-9.14	45.10	-8.24	Peak	---	---
5	533.43	39.83	46.00	-6.17	47.09	-7.26	Peak	---	---
6	900.09	39.34	46.00	-6.66	40.01	-0.67	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.

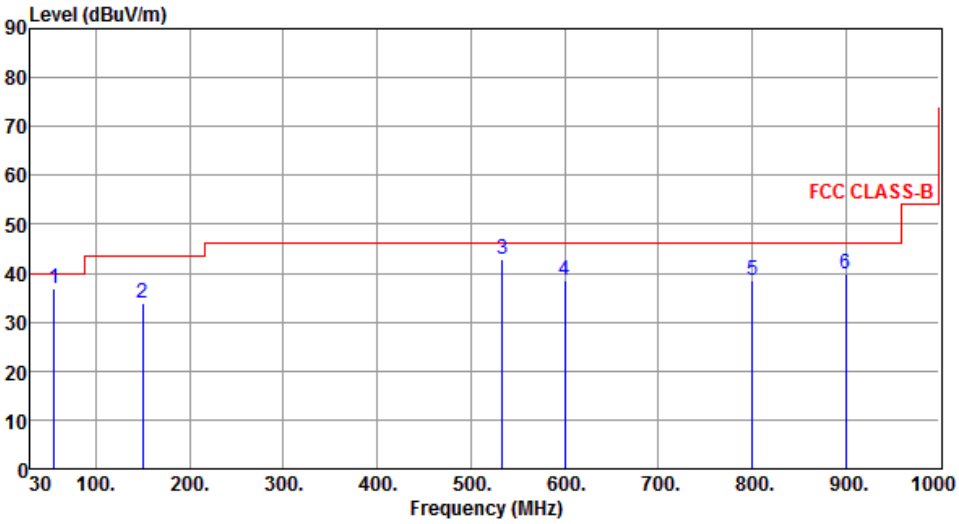
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	105.66	34.95	43.50	-8.55	52.35	-17.40	Peak	---	---
2	156.10	33.79	43.50	-9.71	47.33	-13.54	Peak	---	---
3	217.21	34.60	46.00	-11.40	50.71	-16.11	Peak	---	---
4	533.43	41.92	46.00	-4.08	49.18	-7.26	Peak	---	---
5	600.36	42.11	46.00	-3.89	47.83	-5.72	Peak	---	---
6	900.09	41.83	46.00	-4.17	42.50	-0.67	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	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	2

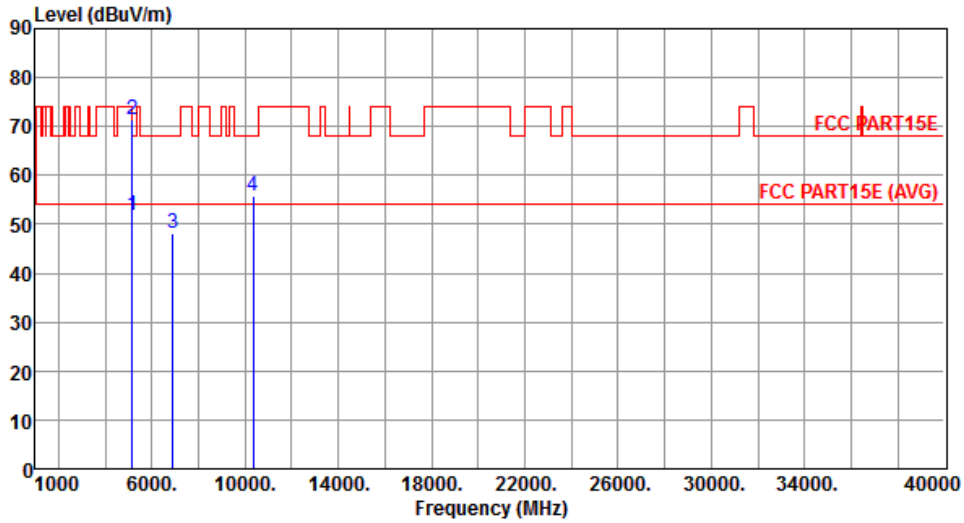


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	55.22	36.91	40.00	-3.09	50.56	-13.65	QP	---	---
2	150.28	33.87	43.50	-9.63	47.30	-13.43	Peak	---	---
3	533.43	42.87	46.00	-3.13	50.13	-7.26	QP	---	---
4	600.36	38.36	46.00	-7.64	44.08	-5.72	Peak	---	---
5	800.18	38.48	46.00	-7.52	41.04	-2.56	Peak	---	---
6	900.09	39.87	46.00	-6.13	40.54	-0.67	Peak	---	---

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

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

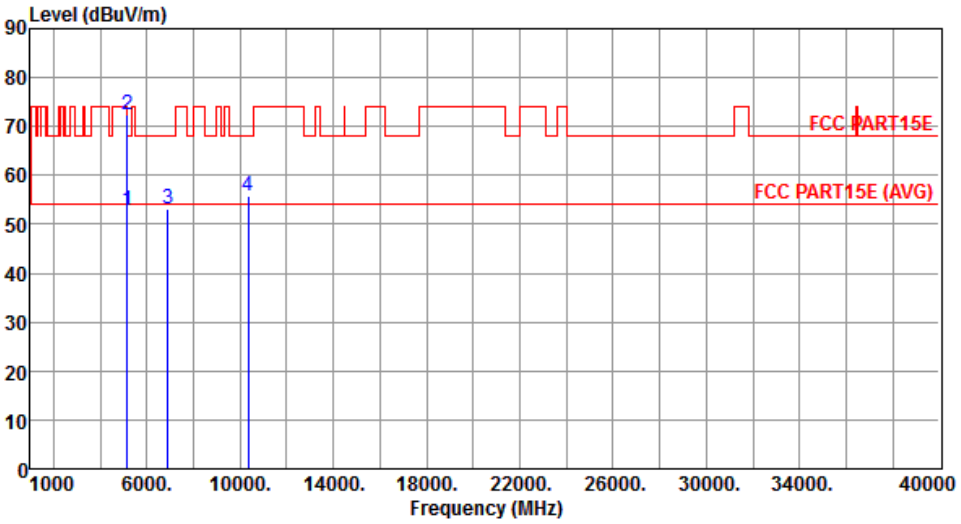
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	51.97	54.00	-2.03	45.78	6.19	Average	347	358
2	5150.00	71.37	74.00	-2.63	65.18	6.19	Peak	347	358
3	6906.00	48.13	68.20	-20.07	38.48	9.65	Peak	211	234
4	10360.00	55.82	68.20	-12.38	39.58	16.24	Peak	347	358

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

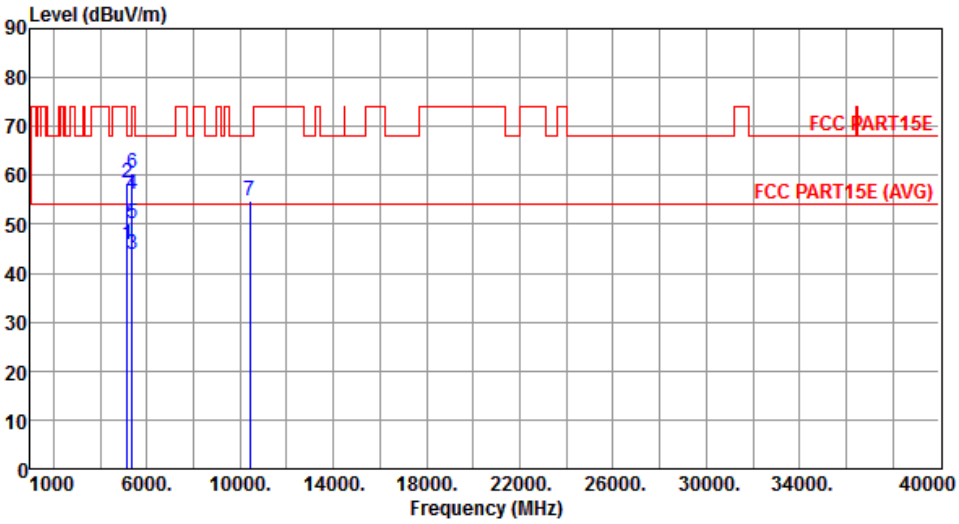
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.75	54.00	-1.25	46.56	6.19	Average	256	286
2	5150.00	72.45	74.00	-1.55	66.26	6.19	Peak	256	286
3	6906.00	53.15	68.20	-15.05	43.50	9.65	Peak	200	265
4	10360.00	55.85	68.20	-12.35	39.61	16.24	Peak	210	350

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

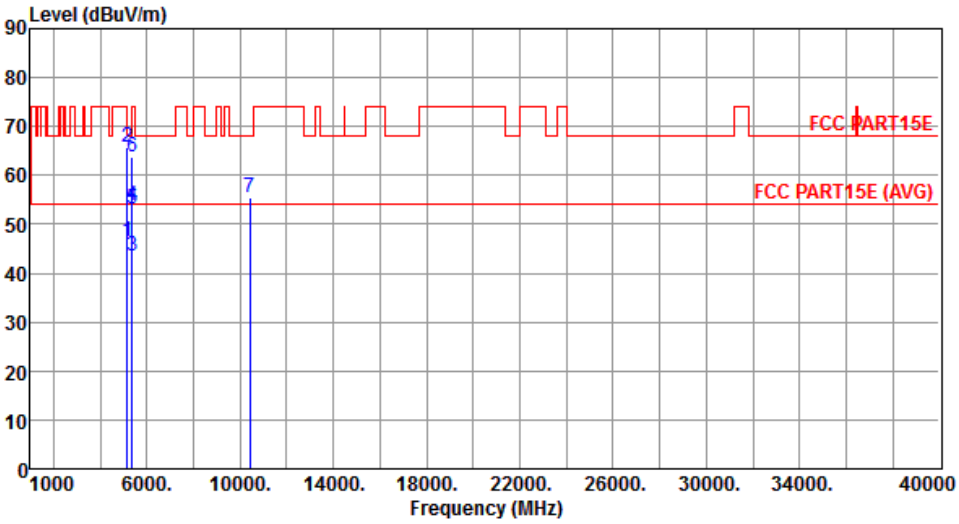
Modulation	11a	**Test Freq. (MHz)**	5200
Polarization	Horizontal	**Test Configuration**	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.88	54.00	-8.12	39.69	6.19	Average	363	232
2	5150.00	58.49	74.00	-15.51	52.30	6.19	Peak	363	232
3	5350.00	43.96	54.00	-10.04	37.45	6.51	Average	363	232
4	5350.00	56.27	74.00	-17.73	49.76	6.51	Peak	363	232
5	5360.00	50.28	54.00	-3.72	43.75	6.53	Average	323	234
6	5360.00	60.53	74.00	-13.47	54.00	6.53	Peak	323	234
7	10400.00	54.79	68.20	-13.41	38.48	16.31	Peak	221	56

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).

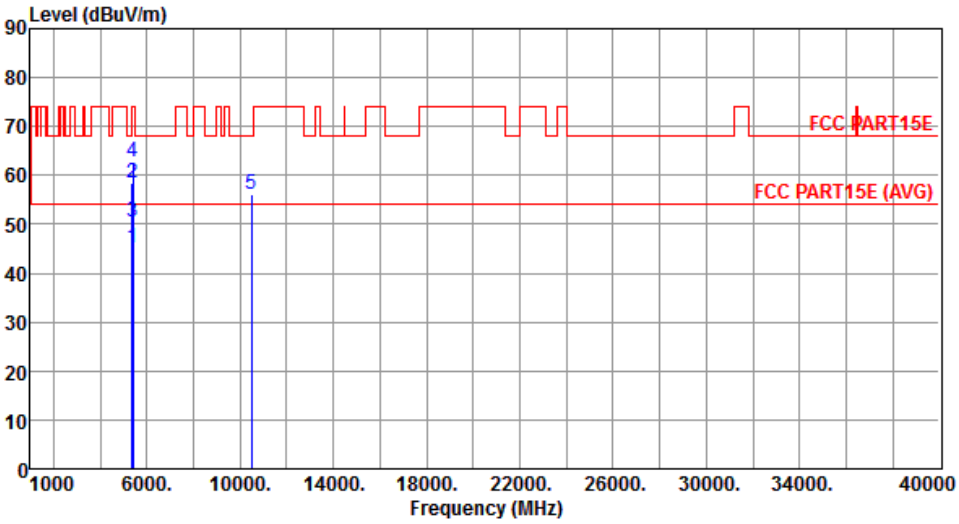
Modulation	11a	**Test Freq. (MHz)**	5200
Polarization	Vertical	**Test Configuration**	1



	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	46.53	54.00	-7.47	40.34	6.19	Average	263	272
2	5150.00	65.62	74.00	-8.38	59.43	6.19	Peak	263	272
3	5350.00	43.67	54.00	-10.33	37.16	6.51	Average	263	272
4	5350.00	53.67	74.00	-20.33	47.16	6.51	Peak	263	272
5	5360.00	53.27	54.00	-0.73	46.74	6.53	Average	263	272
6	5360.00	63.90	74.00	-10.10	57.37	6.53	Peak	263	272
7	10400.00	55.48	68.20	-12.72	39.17	16.31	Peak	261	285

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).

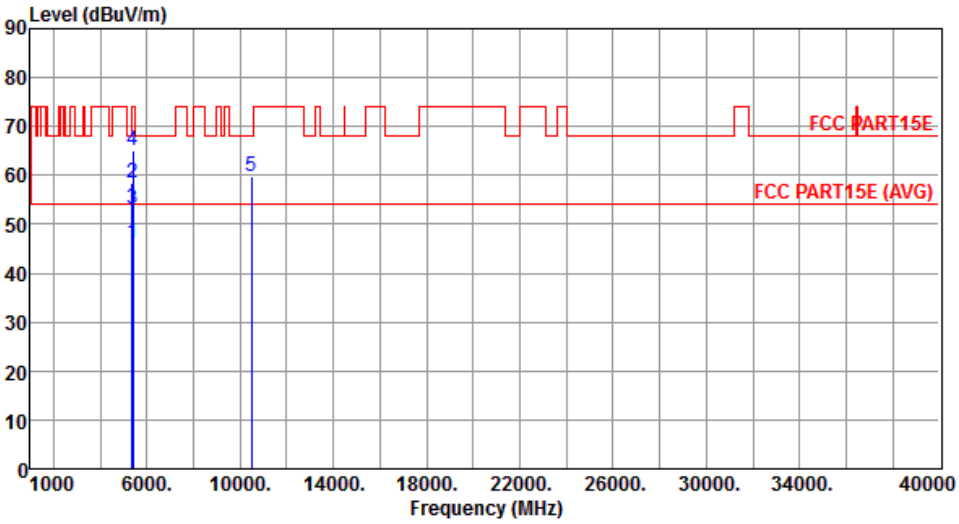
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.20	54.00	-8.80	38.69	6.51	Average	361	224
2	5350.00	58.60	74.00	-15.40	52.09	6.51	Peak	361	224
3	5400.00	50.37	54.00	-3.63	43.79	6.58	Average	378	219
4	5400.00	62.88	74.00	-11.12	56.30	6.58	Peak	378	219
5	10480.00	56.07	68.20	-12.13	39.62	16.45	Peak	265	134

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).

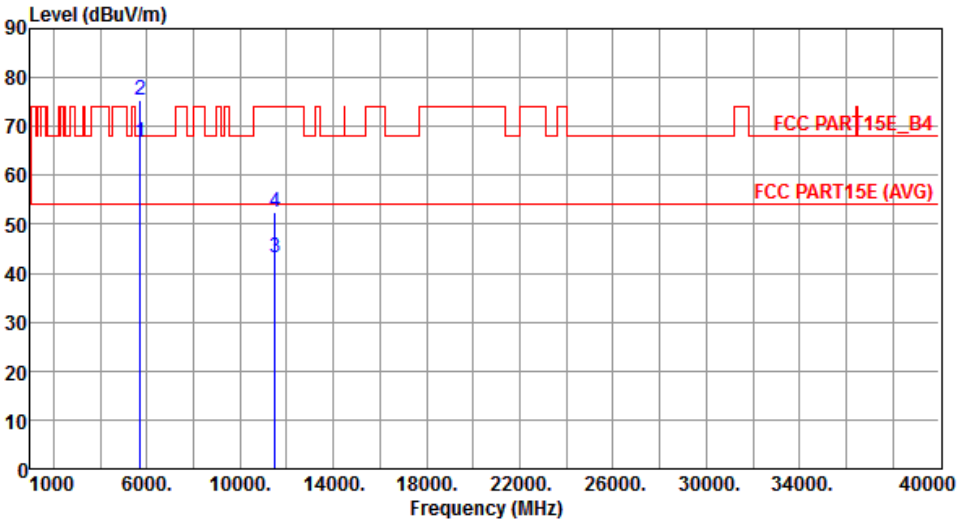
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.19	54.00	-7.81	39.68	6.51	Average	225	298
2	5350.00	58.43	74.00	-15.57	51.92	6.51	Peak	225	298
3	5400.00	53.19	54.00	-0.81	46.61	6.58	Average	280	332
4	5400.00	65.21	74.00	-8.79	58.63	6.58	Peak	280	333
5	10480.00	59.65	68.20	-8.55	43.20	16.45	Peak	266	277

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).

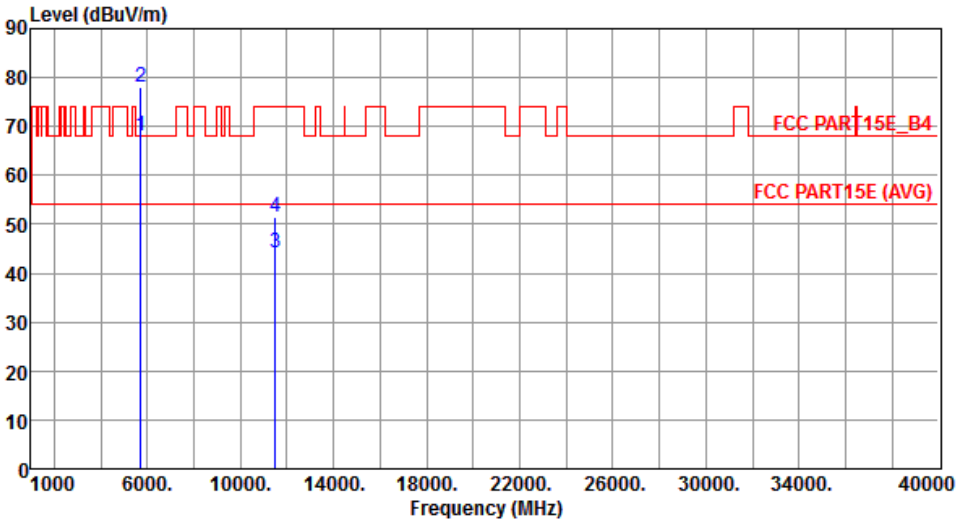
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal	Test Configuration	1



	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	66.60	68.20	-1.60	59.51	7.09	Peak	309	207
2	5725.00	75.53	78.20	-2.67	68.40	7.13	Peak	309	207
3	11490.00	43.11	54.00	-10.89	26.31	16.80	Average	274	72
4	11490.00	52.60	74.00	-21.40	35.80	16.80	Peak	274	72

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).

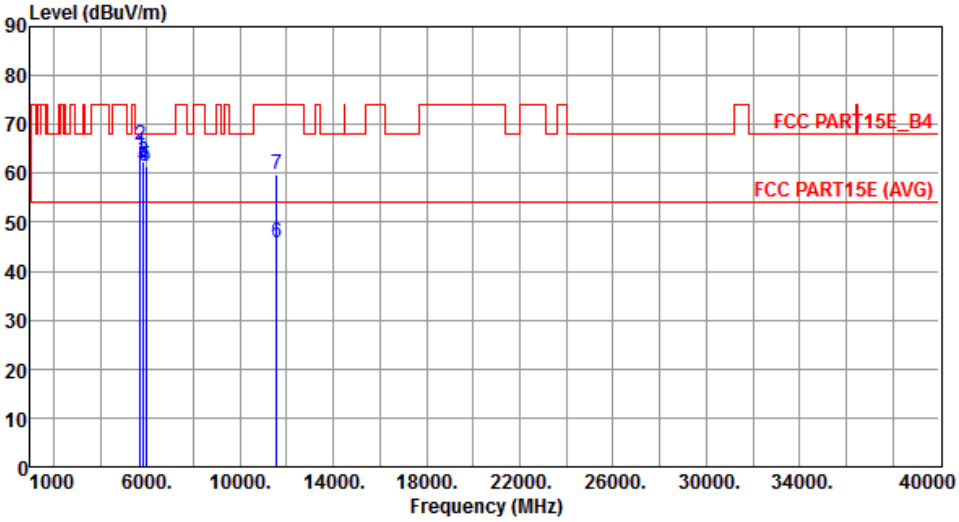
Modulation	11a	**Test Freq. (MHz)**	5745
Polarization	Vertical	**Test Configuration**	1



	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	68.08	68.20	-0.12	60.99	7.09	Peak	307	315
2	5725.00	78.05	78.20	-0.15	70.92	7.13	Peak	307	315
3	11490.00	44.15	54.00	-9.85	27.35	16.80	Average	296	105
4	11490.00	51.37	74.00	-22.63	34.57	16.80	Peak	296	105

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).

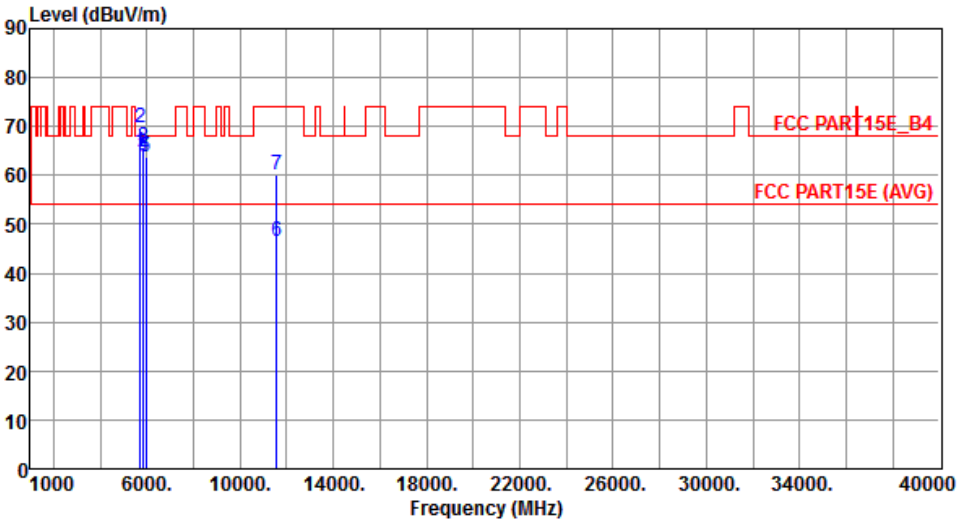
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	63.68	68.20	-4.52	56.59	7.09	Peak	234	198
2	5725.00	65.62	78.20	-12.58	58.49	7.13	Peak	234	198
3	5850.00	62.29	78.20	-15.91	54.90	7.39	Peak	234	198
4	5860.00	61.51	68.20	-6.69	54.11	7.40	Peak	234	198
5	5945.00	61.29	68.20	-6.91	53.76	7.53	Peak	286	228
6	11570.00	45.79	54.00	-8.21	29.10	16.69	Average	221	135
7	11570.00	59.88	74.00	-14.12	43.19	16.69	Peak	221	135

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).

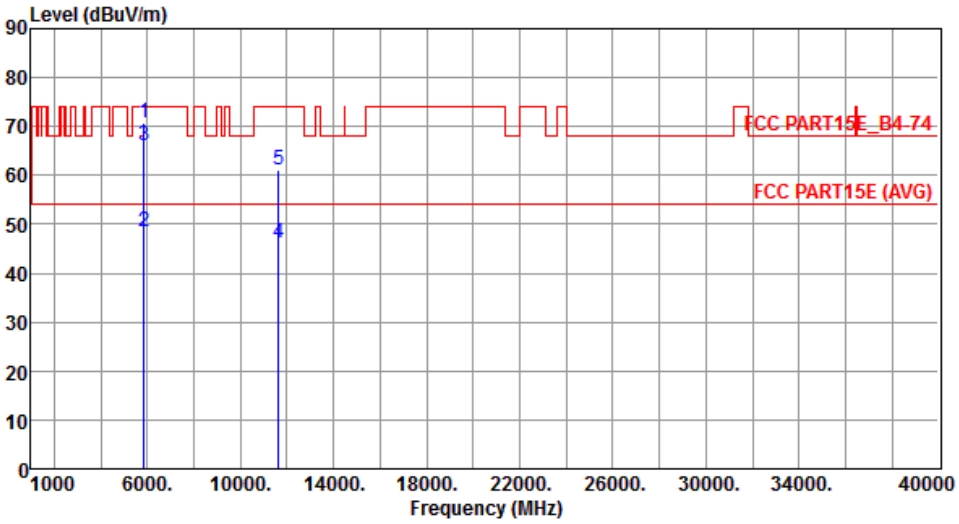
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	64.76	68.20	-3.44	57.67	7.09	Peak	307	311
2	5725.00	69.76	78.20	-8.44	62.63	7.13	Peak	307	311
3	5850.00	65.61	78.20	-12.59	58.22	7.39	Peak	307	311
4	5860.00	63.96	68.20	-4.24	56.56	7.40	Peak	307	311
5	5945.00	63.82	68.20	-4.38	56.29	7.53	Peak	233	273
6	11570.00	46.40	54.00	-7.60	29.71	16.69	Average	248	239
7	11570.00	60.06	74.00	-13.94	43.37	16.69	Peak	248	239

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).

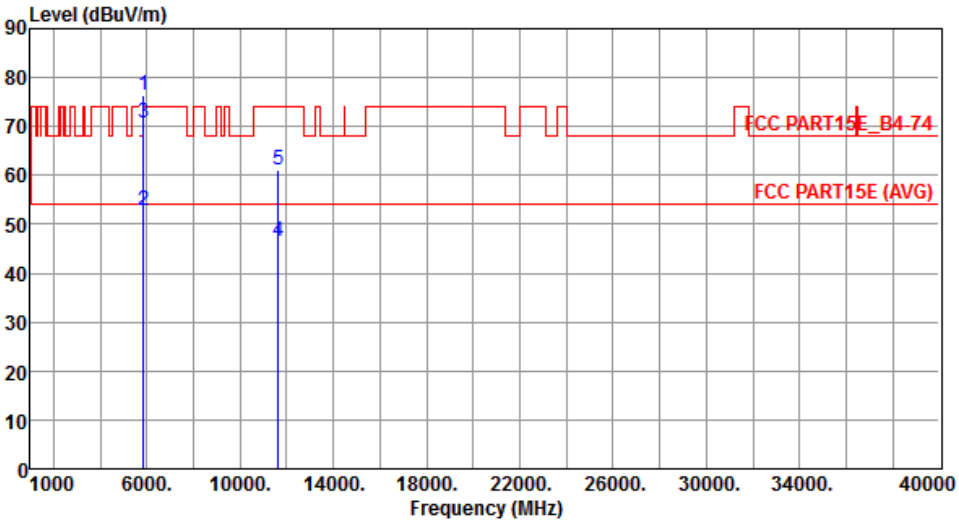
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	1



	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	70.61	78.20	-7.59	63.22	7.39	Peak	259	203
2	5860.00	48.61	54.00	-5.39	41.21	7.40	Average	259	203
3	5860.00	66.00	74.00	-8.00	58.60	7.40	Peak	259	203
4	11650.00	46.32	54.00	-7.68	29.78	16.54	Average	227	315
5	11650.00	61.24	74.00	-12.76	44.70	16.54	Peak	227	315

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

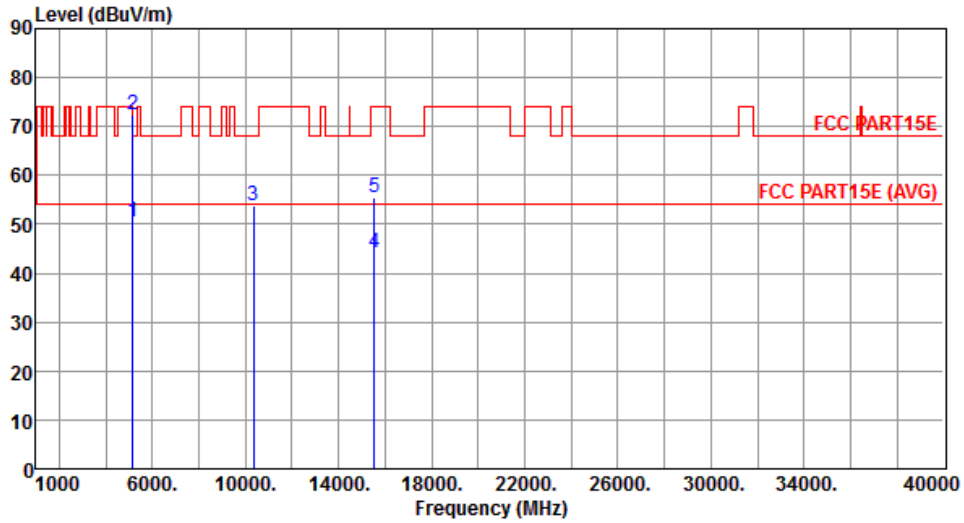


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	76.54	78.20	-1.66	69.15	7.39	Peak	305	314
2	5860.00	52.85	54.00	-1.15	45.45	7.40	Average	305	314
3	5860.00	70.72	74.00	-3.28	63.32	7.40	Peak	305	314
4	11650.00	46.57	54.00	-7.43	30.03	16.54	Average	244	209
5	11650.00	61.03	74.00	-12.97	44.49	16.54	Peak	244	209

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

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

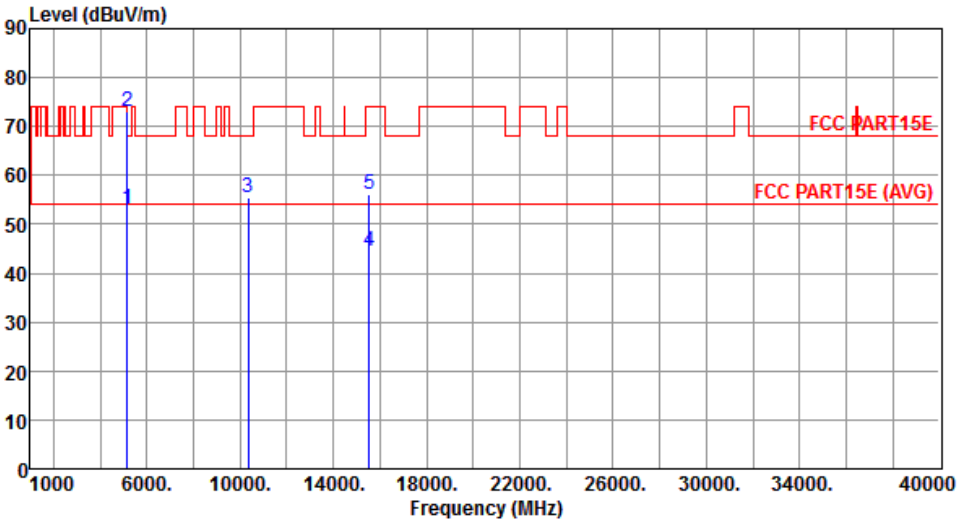
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	50.51	54.00	-3.49	44.32	6.19	Average	231	271
2	5150.00	72.31	74.00	-1.69	66.12	6.19	Peak	231	271
3	10360.00	53.89	68.20	-14.31	37.65	16.24	Peak	277	211
4	15540.00	44.10	54.00	-9.90	26.71	17.39	Average	189	32
5	15540.00	55.60	74.00	-18.40	38.21	17.39	Peak	189	32

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).

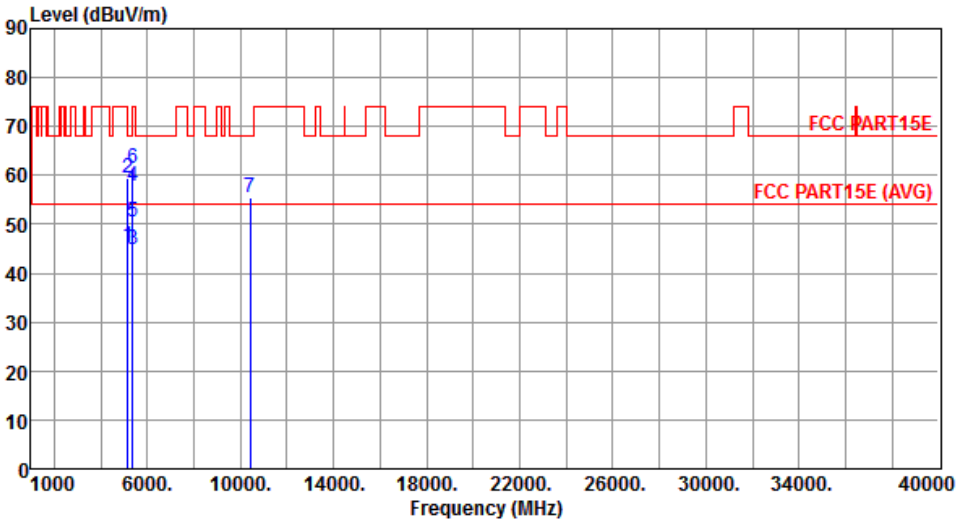
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical	Test Configuration	1



	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	53.12	54.00	-0.88	46.93	6.19	Average	256	286
2	5150.00	72.94	74.00	-1.06	66.75	6.19	Peak	256	286
3	10360.00	55.32	68.20	-12.88	39.08	16.24	Peak	530	341
4	15540.00	44.50	54.00	-9.50	27.11	17.39	Average	270	236
5	15540.00	56.17	74.00	-17.83	38.78	17.39	Peak	270	236

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).

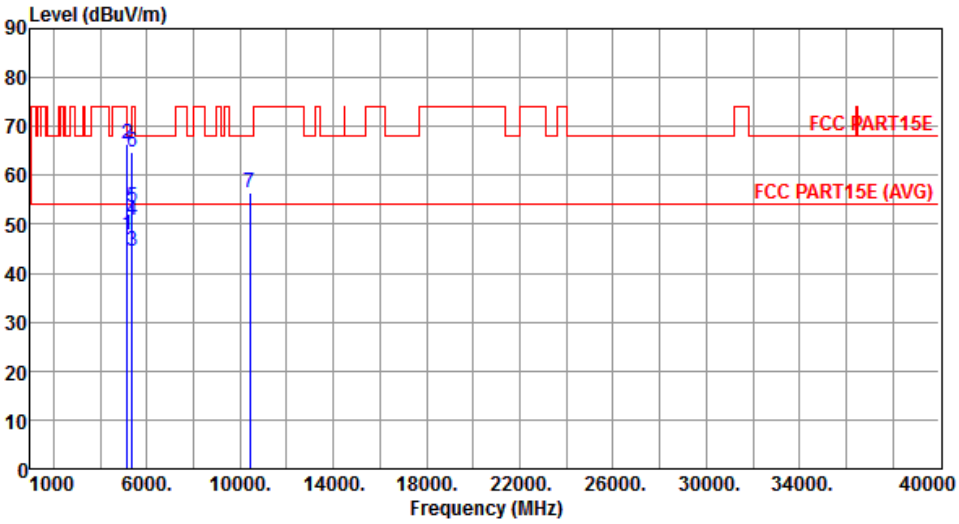
Modulation	VHT20	**Test Freq. (MHz)**	5200
Polarization	Horizontal	**Test Configuration**	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.54	54.00	-8.46	39.35	6.19	Average	325	240
2	5150.00	59.39	74.00	-14.61	53.20	6.19	Peak	325	240
3	5350.00	44.89	54.00	-9.11	38.38	6.51	Average	325	240
4	5350.00	57.69	74.00	-16.31	51.18	6.51	Peak	325	240
5	5360.00	50.41	54.00	-3.59	43.88	6.53	Average	351	202
6	5360.00	61.38	74.00	-12.62	54.85	6.53	Peak	351	202
7	10400.00	55.48	68.20	-12.72	39.17	16.31	Peak	351	202

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).

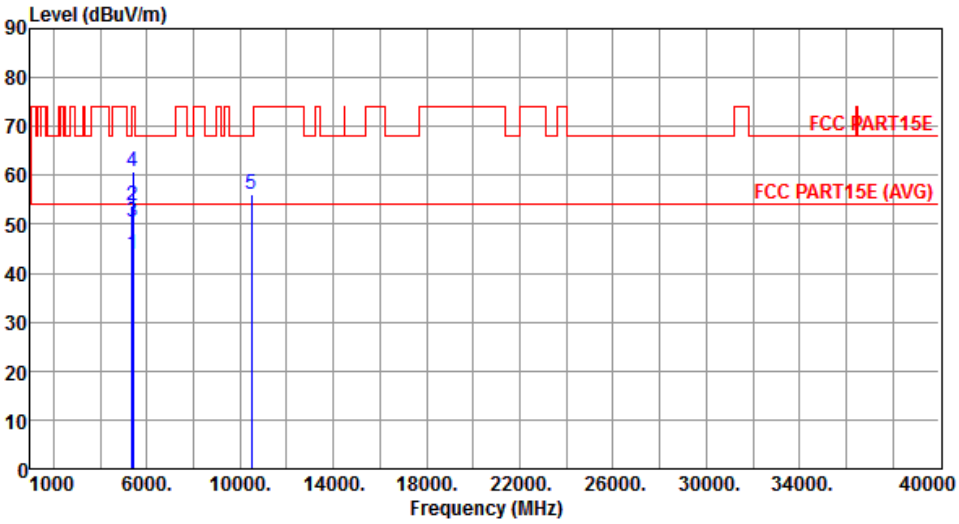
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.87	54.00	-6.13	41.68	6.19	Average	250	286
2	5150.00	66.56	74.00	-7.44	60.37	6.19	Peak	250	286
3	5350.00	44.44	54.00	-9.56	37.93	6.51	Average	250	286
4	5350.00	50.92	74.00	-23.08	44.41	6.51	Peak	250	286
5	5360.00	53.45	54.00	-0.55	46.92	6.53	Average	247	270
6	5360.00	64.92	74.00	-9.08	58.39	6.53	Peak	247	270
7	10400.00	56.31	68.20	-11.89	40.00	16.31	Peak	265	44

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).

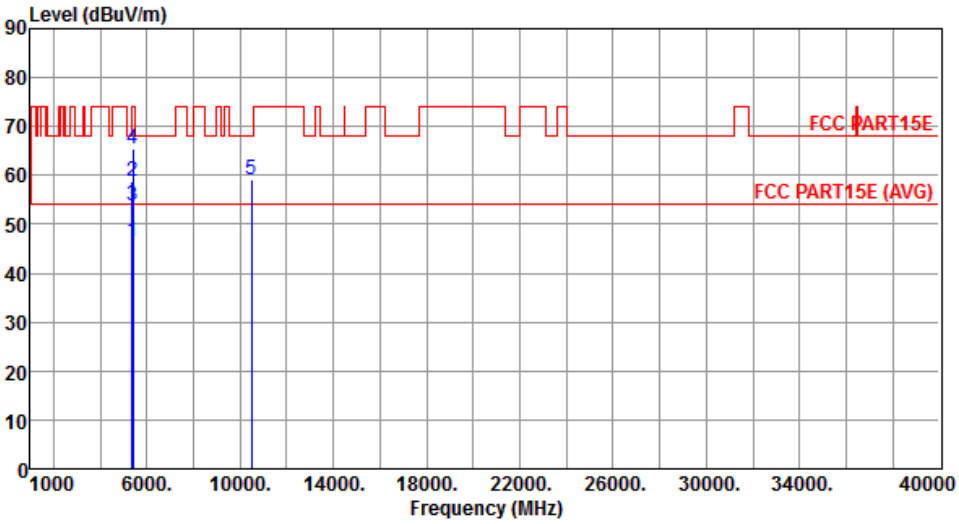
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	43.99	54.00	-10.01	37.48	6.51	Average	349	204
2	5350.00	53.72	74.00	-20.28	47.21	6.51	Peak	349	204
3	5400.00	50.64	54.00	-3.36	44.06	6.58	Average	358	203
4	5400.00	60.69	74.00	-13.31	54.11	6.58	Peak	358	203
5	10480.00	56.25	68.20	-11.95	39.80	16.45	Peak	287	174

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).

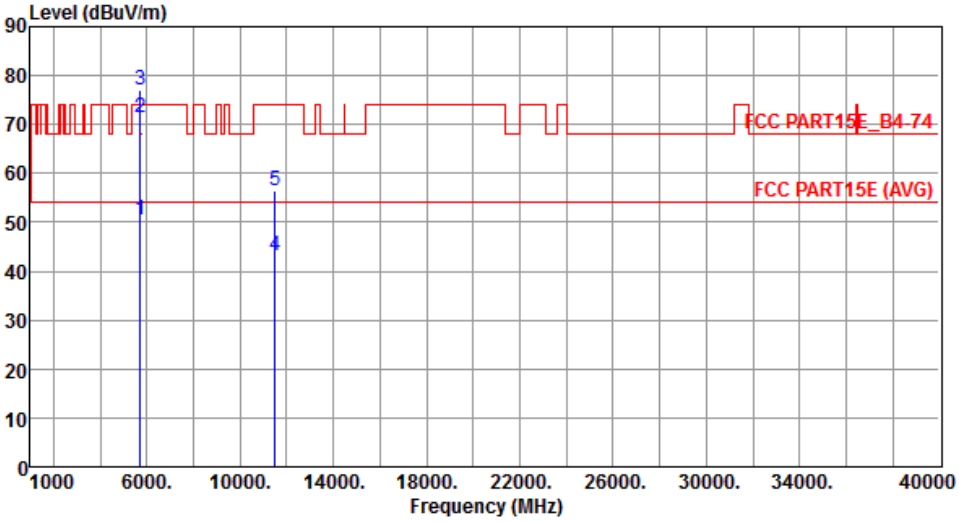
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.34	54.00	-7.66	39.83	6.51	Average	237	287
2	5350.00	58.70	74.00	-15.30	52.19	6.51	Peak	237	287
3	5400.00	53.75	54.00	-0.25	47.17	6.58	Average	285	345
4	5400.00	65.32	74.00	-8.68	58.74	6.58	Peak	285	345
5	10480.00	59.25	68.20	-8.95	42.80	16.45	Peak	257	261

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).

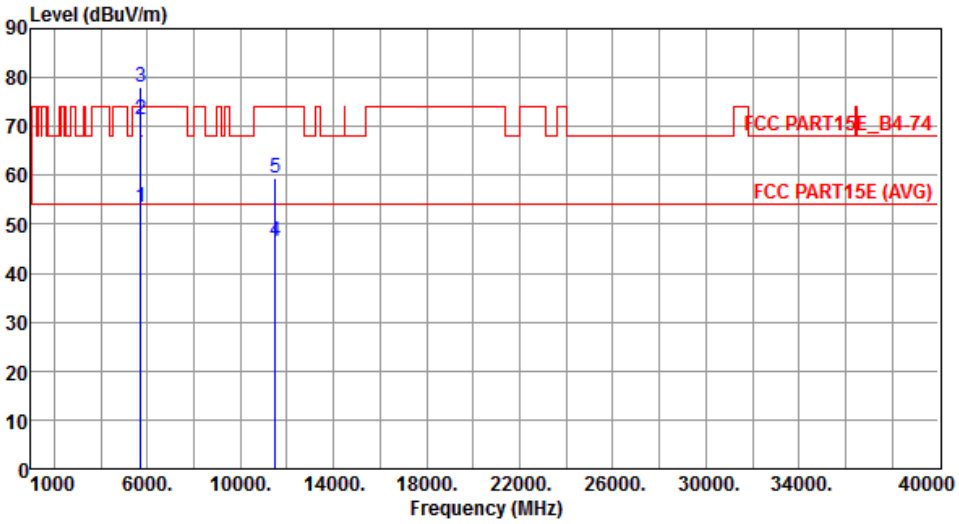
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal	Test Configuration	1



	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	50.59	54.00	-3.41	43.50	7.09	Average	326	198
2	5715.00	71.46	74.00	-2.54	64.37	7.09	Peak	326	198
3	5725.00	77.12	78.20	-1.08	69.99	7.13	Peak	326	198
4	11490.00	43.12	54.00	-10.88	26.32	16.80	Average	299	156
5	11490.00	56.31	74.00	-17.69	39.51	16.80	Peak	299	156

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).

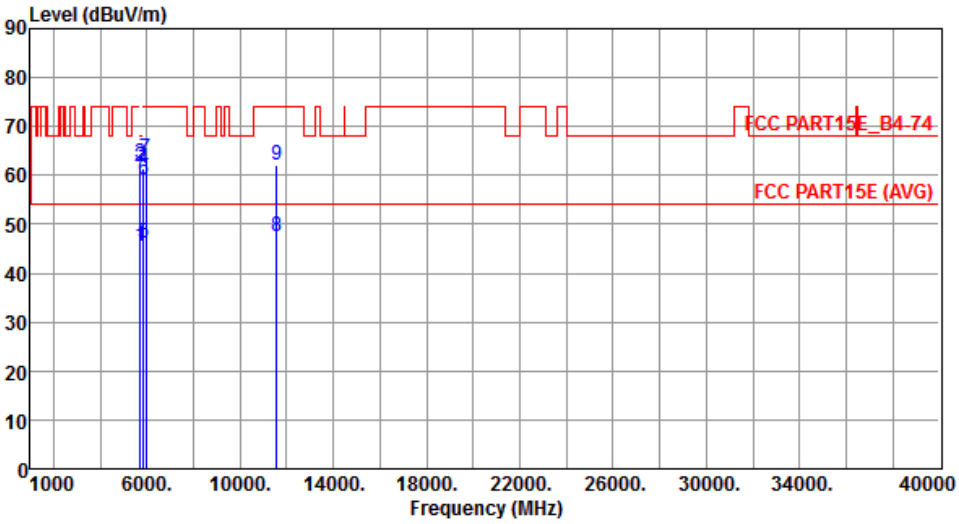
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical	Test Configuration	1



	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	53.58	54.00	-0.42	46.49	7.09	Average	248	251
2	5715.00	71.36	74.00	-2.64	64.27	7.09	Peak	248	251
3	5725.00	77.98	78.20	-0.22	70.85	7.13	Peak	253	261
4	11490.00	46.42	54.00	-7.58	29.62	16.80	Average	277	275
5	11490.00	59.41	74.00	-14.59	42.61	16.80	Peak	277	275

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).

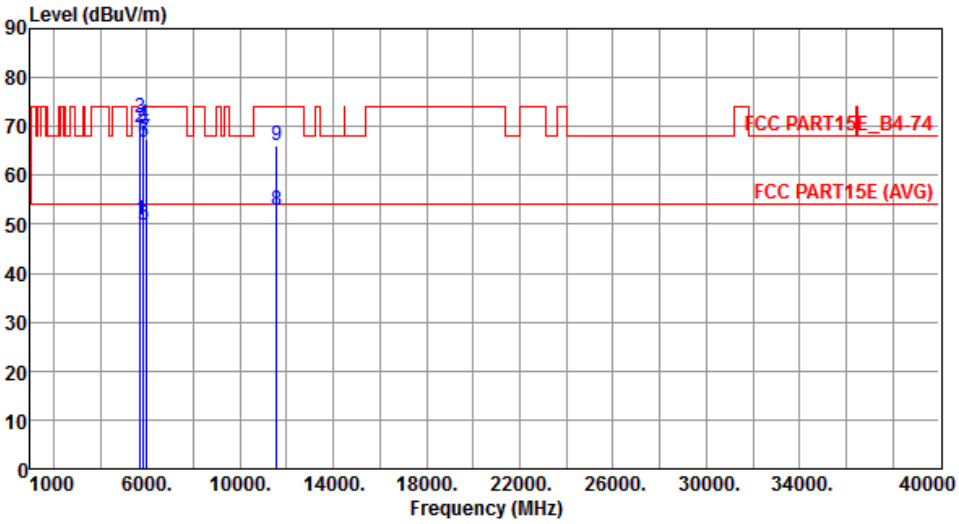
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	45.60	54.00	-8.40	38.51	7.09	Average	300	219
2	5715.00	61.91	74.00	-12.09	54.82	7.09	Peak	300	219
3	5725.00	62.48	78.20	-15.72	55.35	7.13	Peak	300	219
4	5850.00	61.38	78.20	-16.82	53.99	7.39	Peak	300	219
5	5860.00	46.21	54.00	-7.79	38.81	7.40	Average	300	219
6	5860.00	59.02	74.00	-14.98	51.62	7.40	Peak	300	219
7	5945.00	63.55	68.20	-4.65	56.02	7.53	Peak	252	10
8	11570.00	47.35	54.00	-6.65	30.66	16.69	Average	221	227
9	11570.00	62.26	74.00	-11.74	45.57	16.69	Peak	221	227

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).

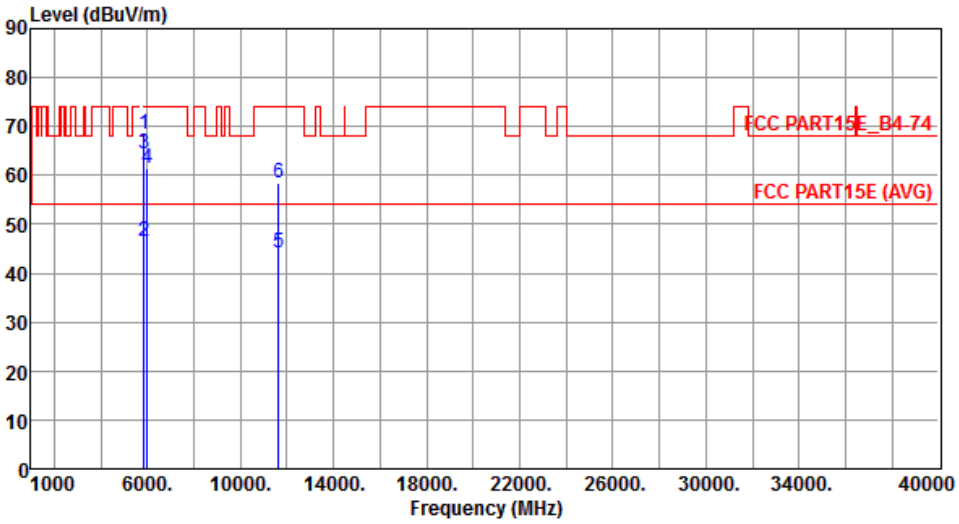
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	50.75	54.00	-3.25	43.66	7.09	Average	258	113
2	5715.00	69.64	74.00	-4.36	62.55	7.09	Peak	258	113
3	5725.00	71.78	78.20	-6.42	64.65	7.13	Peak	258	113
4	5850.00	70.38	78.20	-7.82	62.99	7.39	Peak	258	113
5	5860.00	49.69	54.00	-4.31	42.29	7.40	Average	258	113
6	5860.00	66.89	74.00	-7.11	59.49	7.40	Peak	258	113
7	5945.00	67.54	68.20	-0.66	60.01	7.53	Peak	252	258
8	11570.00	52.84	54.00	-1.16	36.15	16.69	Average	258	113
9	11570.00	66.21	74.00	-7.79	49.52	16.69	Peak	258	113

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).

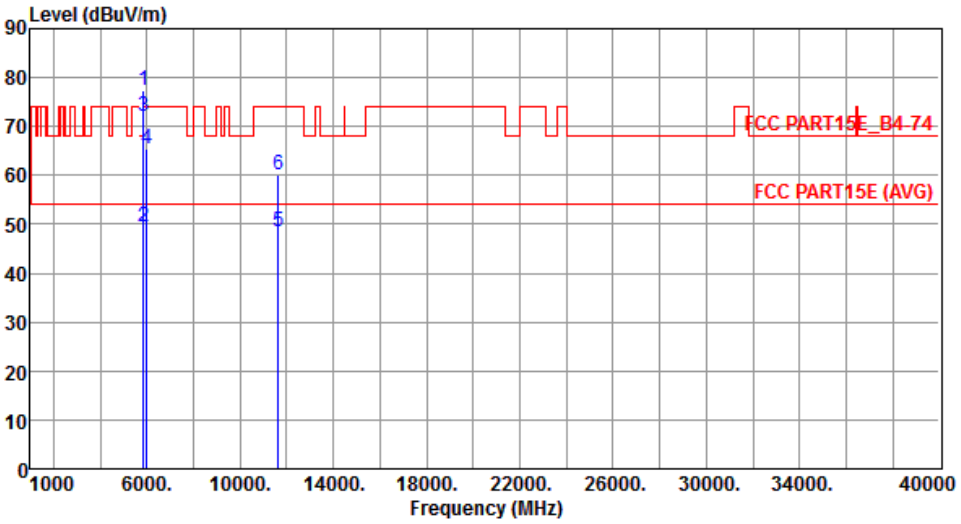
Modulation	VHT20	**Test Freq. (MHz)**	5825
Polarization	Horizontal	**Test Configuration**	1



	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	68.55	78.20	-9.65	61.16	7.39	Peak	318	202
2	5860.00	46.61	54.00	-7.39	39.21	7.40	Average	318	202
3	5860.00	64.43	74.00	-9.57	57.03	7.40	Peak	318	202
4	5985.00	61.48	68.20	-6.72	53.89	7.59	Peak	376	25
5	11650.00	44.26	54.00	-9.74	27.72	16.54	Average	217	56
6	11650.00	58.59	74.00	-15.41	42.05	16.54	Peak	217	56

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

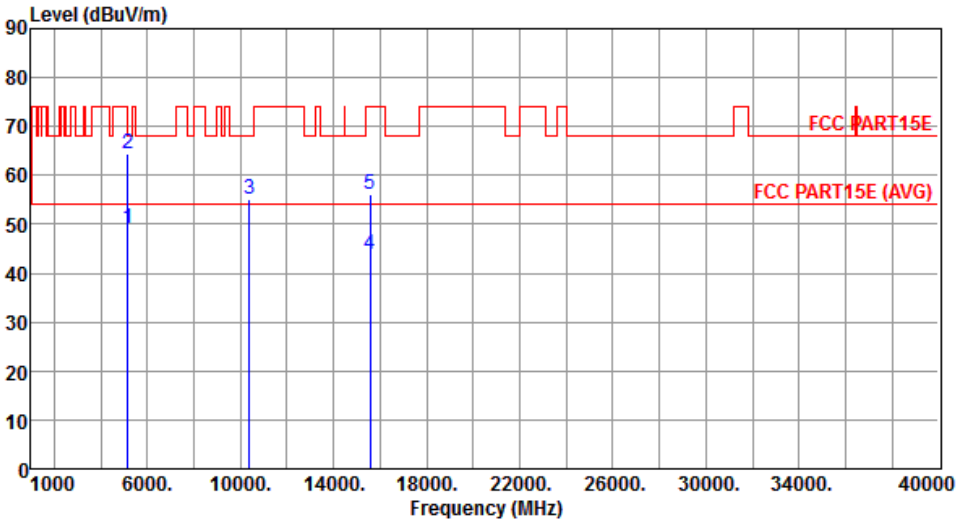


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	77.51	78.20	-0.69	70.12	7.39	Peak	238	248
2	5860.00	49.53	54.00	-4.47	42.13	7.40	Average	238	248
3	5860.00	72.23	74.00	-1.77	64.83	7.40	Peak	238	248
4	5985.00	65.34	68.20	-2.86	57.75	7.59	Peak	238	248
5	11650.00	48.43	54.00	-5.57	31.89	16.54	Average	274	112
6	11650.00	60.12	74.00	-13.88	43.58	16.54	Peak	274	112

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

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

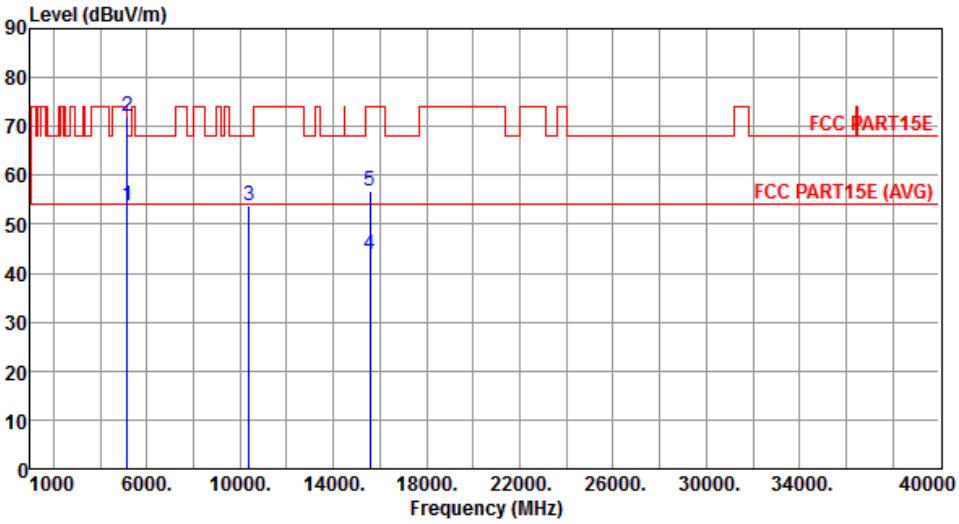
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.99	54.00	-5.01	42.80	6.19	Average	347	207
2	5150.00	64.39	74.00	-9.61	58.20	6.19	Peak	347	207
3	10380.00	55.02	68.20	-13.18	38.76	16.26	Peak	267	200
4	15570.00	43.74	54.00	-10.26	26.42	17.32	Average	228	357
5	15570.00	56.22	74.00	-17.78	38.90	17.32	Peak	228	357

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

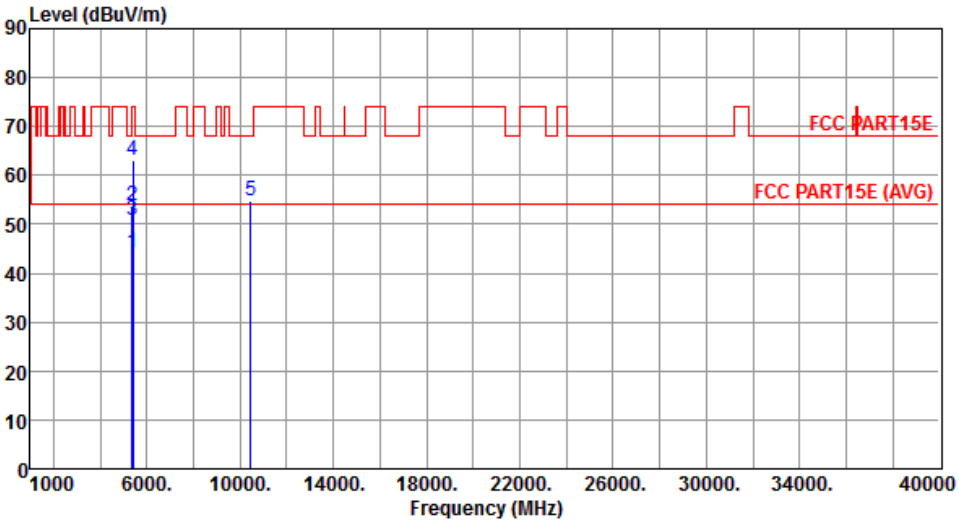
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	53.75	54.00	-0.25	47.56	6.19	Average	255	256
2	5150.00	72.08	74.00	-1.92	65.89	6.19	Peak	255	256
3	10380.00	53.83	68.20	-14.37	37.57	16.26	Peak	225	126
4	15570.00	43.82	54.00	-10.18	26.50	17.32	Average	225	126
5	15570.00	56.82	74.00	-17.18	39.50	17.32	Peak	225	126

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).

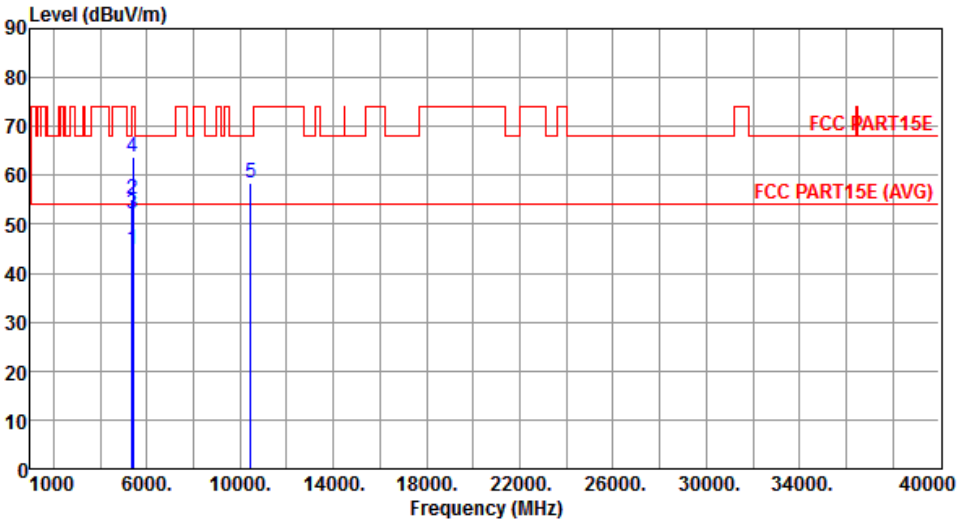
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	44.12	54.00	-9.88	37.61	6.51	Average	310	236
2	5350.00	53.86	74.00	-20.14	47.35	6.51	Peak	310	236
3	5400.00	50.69	54.00	-3.31	44.11	6.58	Average	310	236
4	5400.00	62.95	74.00	-11.05	56.37	6.58	Peak	310	236
5	10460.00	54.86	68.20	-13.34	38.44	16.42	Peak	251	196

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).

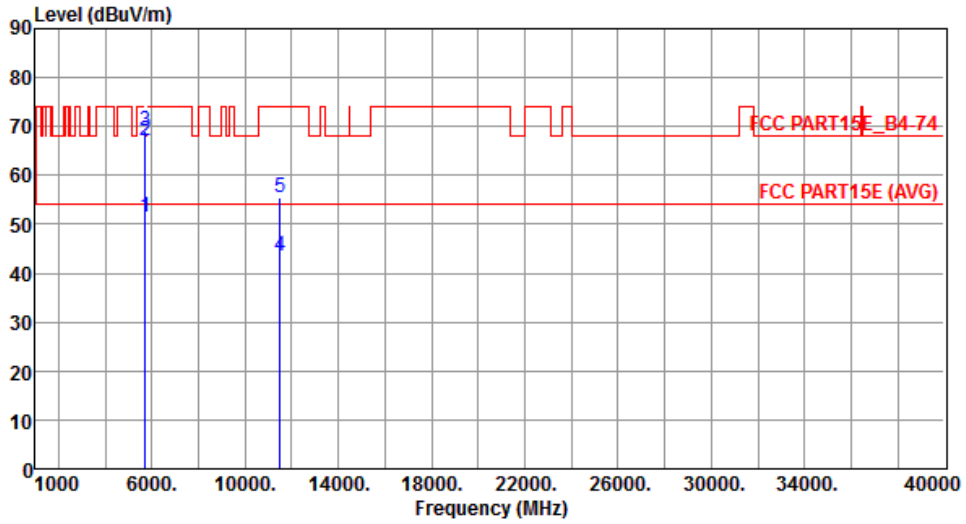
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	44.77	54.00	-9.23	38.26	6.51	Average	229	286
2	5350.00	54.99	74.00	-19.01	48.48	6.51	Peak	229	286
3	5400.00	52.17	54.00	-1.83	45.59	6.58	Average	229	286
4	5400.00	63.62	74.00	-10.38	57.04	6.58	Peak	229	286
5	10460.00	58.45	68.20	-9.75	42.03	16.42	Peak	210	145

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).

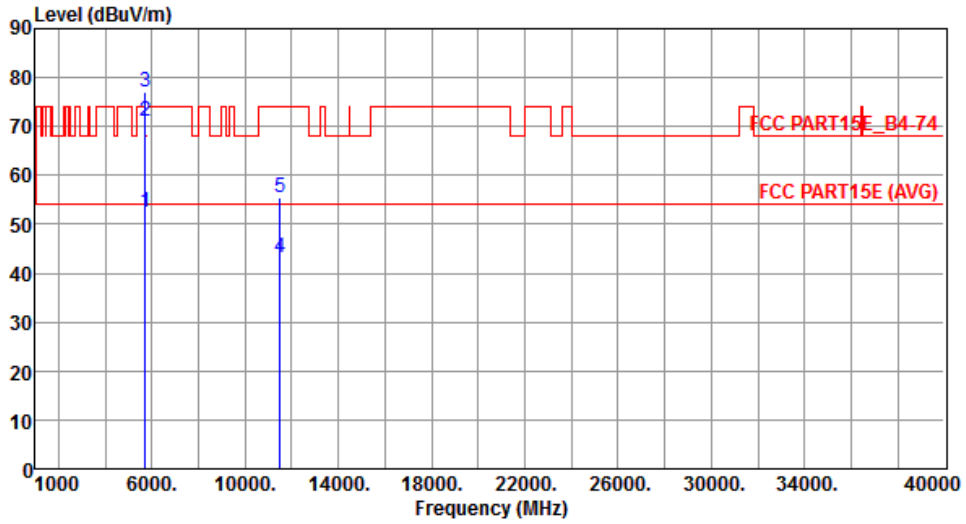
Modulation	VHT40	**Test Freq. (MHz)**	5755
Polarization	Horizontal	**Test Configuration**	1



	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	51.36	54.00	-2.64	44.27	7.09	Average	309	200
2	5715.00	66.95	74.00	-7.05	59.86	7.09	Peak	309	200
3	5725.00	68.92	78.20	-9.28	61.79	7.13	Peak	309	200
4	11510.00	43.39	54.00	-10.61	26.60	16.79	Average	265	282
5	11510.00	55.59	74.00	-18.41	38.80	16.79	Peak	265	282

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).

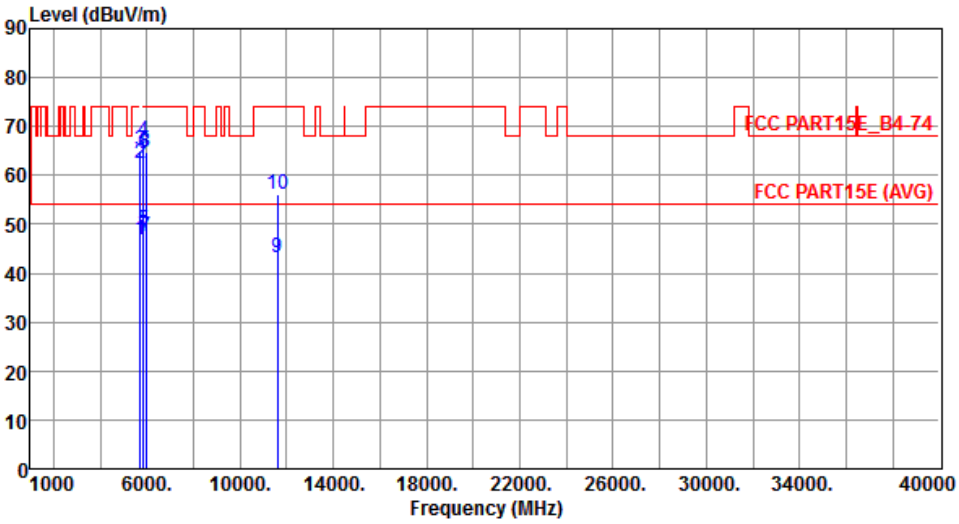
Modulation	VHT40	**Test Freq. (MHz)**	5755
Polarization	Vertical	**Test Configuration**	1



	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	52.55	54.00	-1.45	45.46	7.09	Average	236	254
2	5715.00	71.03	74.00	-2.97	63.94	7.09	Peak	236	254
3	5725.00	77.07	78.20	-1.13	69.94	7.13	Peak	236	254
4	11510.00	43.17	54.00	-10.83	26.38	16.79	Average	284	254
5	11510.00	55.57	74.00	-18.43	38.78	16.79	Peak	284	254

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).

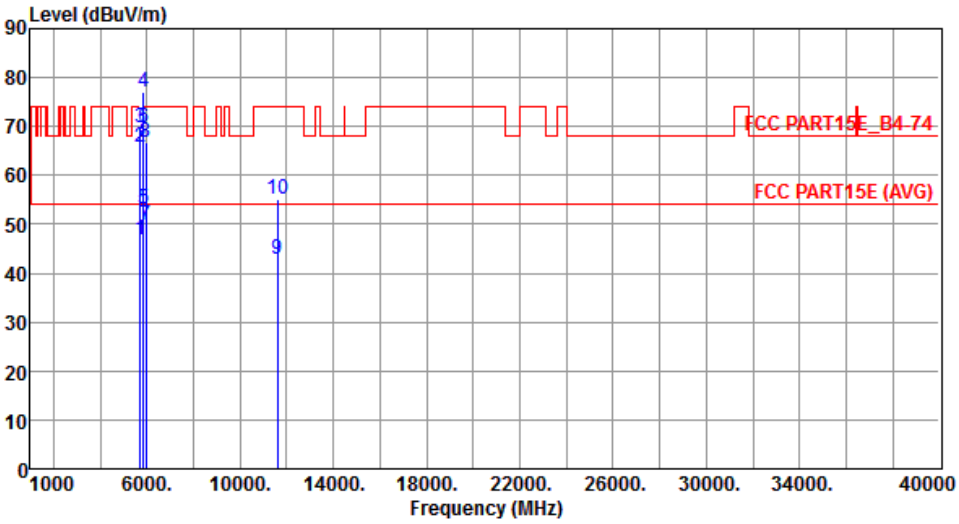
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	46.85	54.00	-7.15	39.76	7.09	Average	346	20
2	5715.00	62.30	74.00	-11.70	55.21	7.09	Peak	346	20
3	5725.00	65.24	78.20	-12.96	58.11	7.13	Peak	346	20
4	5850.00	67.08	78.20	-11.12	59.69	7.39	Peak	346	20
5	5860.00	48.67	54.00	-5.33	41.27	7.40	Average	346	20
6	5860.00	64.35	74.00	-9.65	56.95	7.40	Peak	346	20
7	5955.00	47.56	54.00	-6.44	40.02	7.54	Average	302	265
8	5955.00	64.79	68.20	-3.41	57.25	7.54	Peak	302	265
9	11590.00	43.24	54.00	-10.76	26.59	16.65	Average	267	225
10	11590.00	56.01	74.00	-17.99	39.36	16.65	Peak	267	225

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

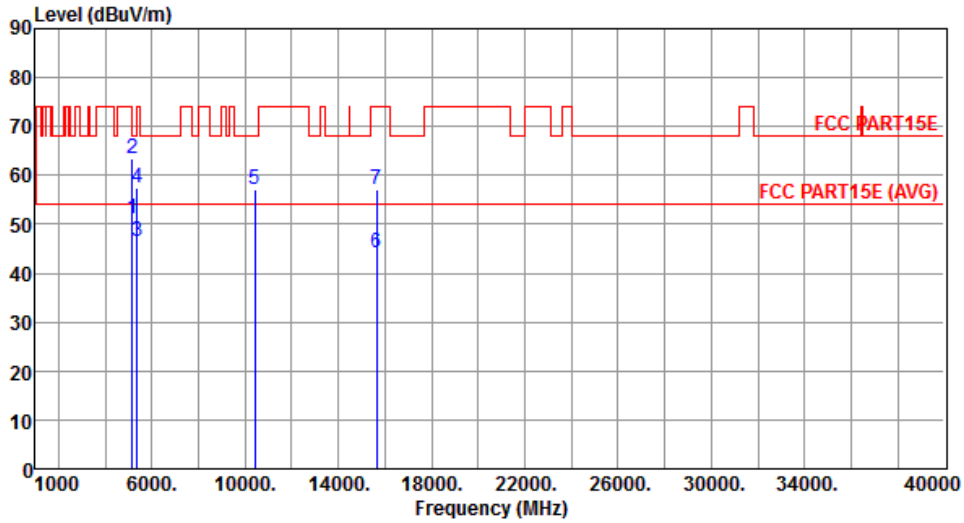


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	46.78	54.00	-7.22	39.69	7.09	Average	233	255
2	5715.00	65.71	74.00	-8.29	58.62	7.09	Peak	233	255
3	5725.00	69.64	78.20	-8.56	62.51	7.13	Peak	233	255
4	5850.00	77.10	78.20	-1.10	69.71	7.39	Peak	240	256
5	5860.00	53.11	54.00	-0.89	45.71	7.40	Average	240	256
6	5860.00	69.85	74.00	-4.15	62.45	7.40	Peak	240	256
7	5955.00	49.66	54.00	-4.34	42.12	7.54	Average	233	255
8	5955.00	66.62	74.00	-7.38	59.08	7.54	Peak	233	255
9	11590.00	43.00	54.00	-11.00	26.35	16.65	Average	278	174
10	11590.00	55.13	74.00	-18.87	38.48	16.65	Peak	278	174

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

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

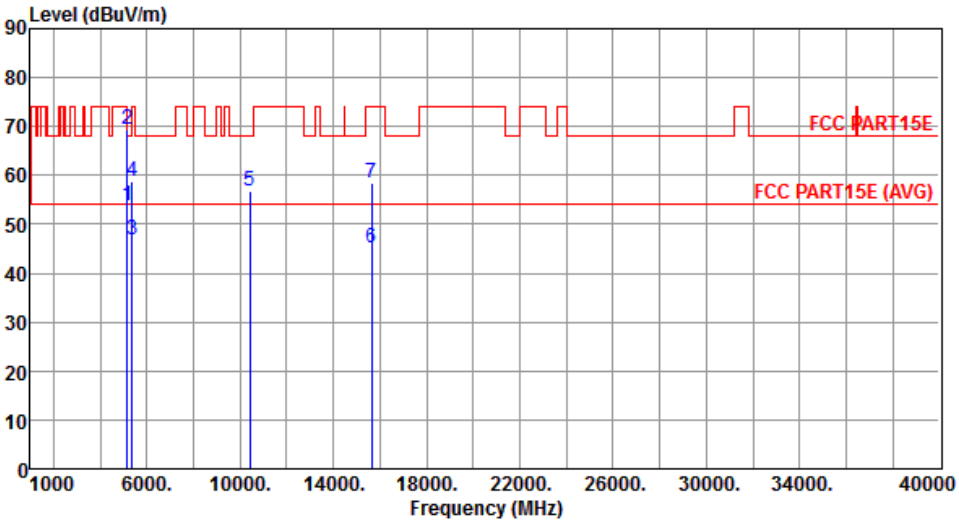
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	51.19	54.00	-2.81	45.00	6.19	Average	288	226
2	5150.00	63.46	74.00	-10.54	57.27	6.19	Peak	288	226
3	5350.00	46.57	54.00	-7.43	40.06	6.51	Average	251	265
4	5350.00	57.29	74.00	-16.71	50.78	6.51	Peak	251	265
5	10420.00	57.09	68.20	-11.11	40.75	16.34	Peak	230	341
6	15630.00	44.19	54.00	-9.81	26.99	17.20	Average	150	26
7	15630.00	57.21	74.00	-16.79	40.01	17.20	Peak	150	26

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).

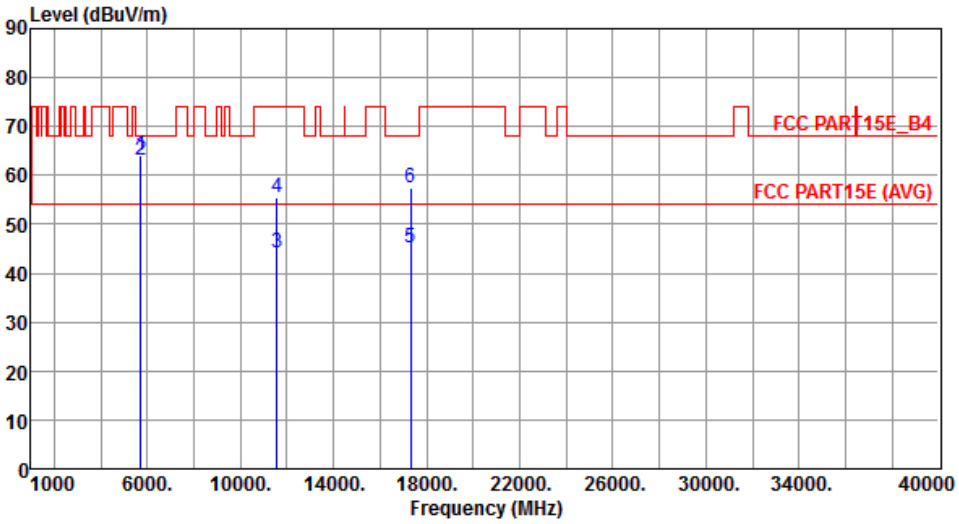
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical	Test Configuration	1



	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	53.84	54.00	-0.16	47.65	6.19	Average	238	274
2	5150.00	69.54	74.00	-4.46	63.35	6.19	Peak	238	274
3	5350.00	46.89	54.00	-7.11	40.38	6.51	Average	274	257
4	5350.00	58.89	74.00	-15.11	52.38	6.51	Peak	274	257
5	10420.00	56.89	68.20	-11.31	40.55	16.34	Peak	226	267
6	15630.00	45.26	54.00	-8.74	28.06	17.20	Average	287	52
7	15630.00	58.50	74.00	-15.50	41.30	17.20	Peak	287	52

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).

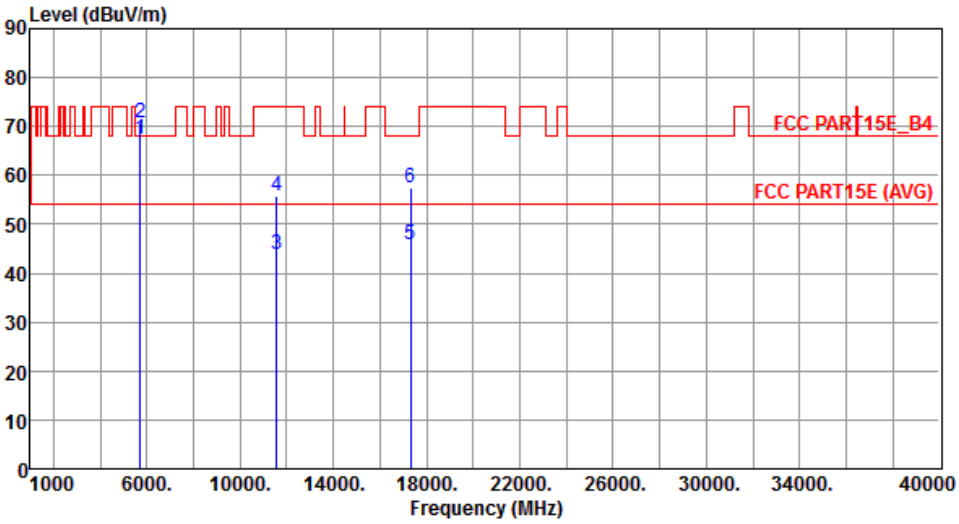
Modulation	VHT80	**Test Freq. (MHz)**	5775
Polarization	Horizontal	**Test Configuration**	1



	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	64.04	68.20	-4.16	56.95	7.09	Peak	37	0
2	5725.00	62.93	78.20	-15.27	55.80	7.13	Peak	37	0
3	11550.00	44.21	54.00	-9.79	27.49	16.72	Average	246	235
4	11550.00	55.36	74.00	-18.64	38.64	16.72	Peak	246	235
5	17325.00	45.32	54.00	-8.68	26.02	19.30	Average	217	78
6	17325.00	57.57	68.20	-10.63	38.27	19.30	Peak	217	78

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



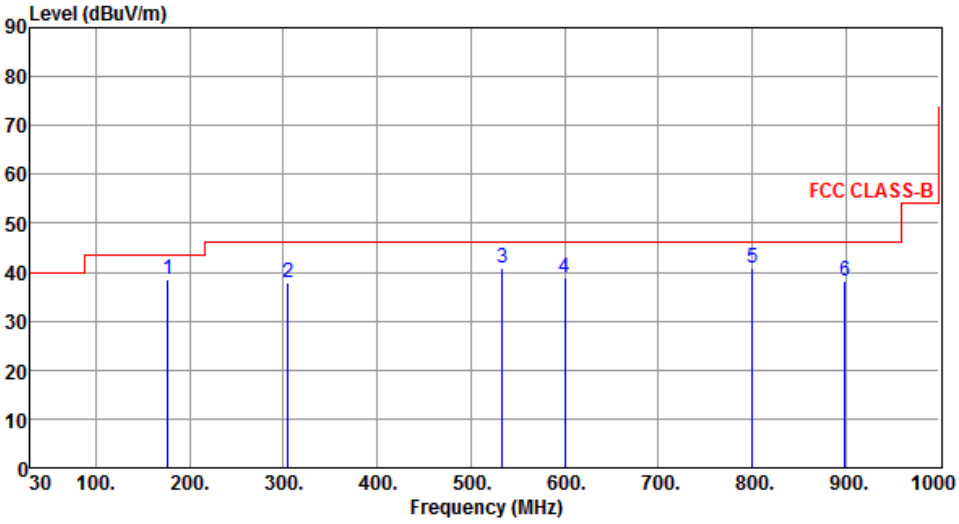
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5715.00	67.34	68.20	-0.86	60.25	7.09	Peak	231	253
2	5725.00	70.88	78.20	-7.32	63.75	7.13	Peak	231	253
3	11550.00	43.87	54.00	-10.13	27.15	16.72	Average	291	264
4	11550.00	55.77	74.00	-18.23	39.05	16.72	Peak	291	264
5	17325.00	45.87	54.00	-8.13	26.57	19.30	Average	232	247
6	17325.00	57.56	68.20	-10.64	38.26	19.30	Peak	232	247

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).

Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

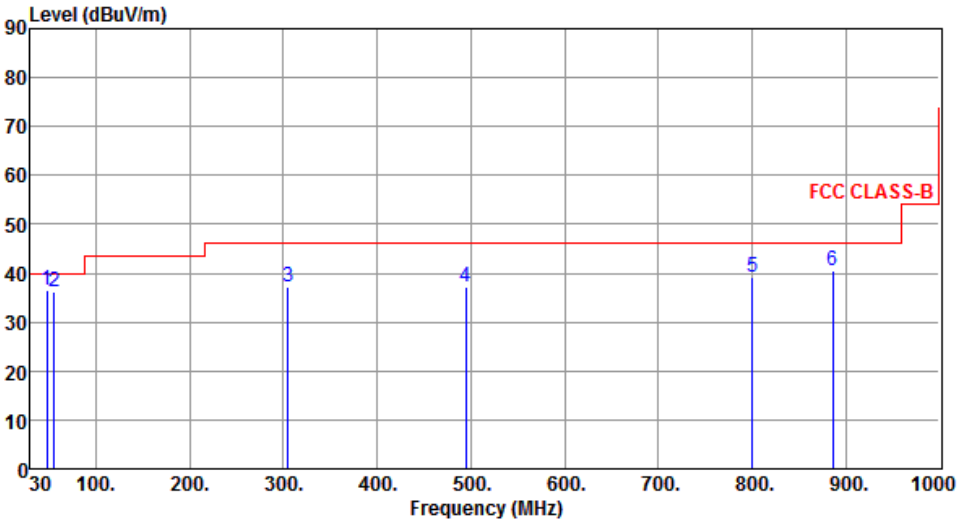
Modulation	VHT20	**Test Freq. (MHz)**	5200
Polarization	Horizontal	**Test Configuration**	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	176.42	38.60	43.50	-4.90	53.45	-14.85	Peak	---	---
2	304.53	37.93	46.00	-8.07	50.47	-12.54	Peak	---	---
3	533.39	40.71	46.00	-5.29	47.97	-7.26	Peak	---	---
4	600.24	38.93	46.00	-7.07	44.65	-5.72	Peak	---	---
5	800.16	40.89	46.00	-5.11	43.45	-2.56	Peak	---	---
6	899.25	38.27	46.00	-7.73	38.95	-0.68	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.

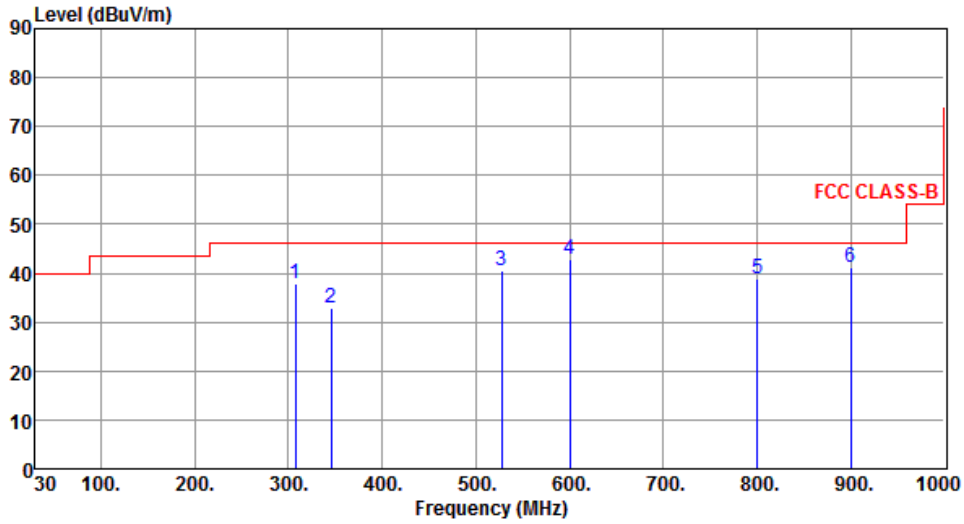
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	47.52	36.64	40.00	-3.36	49.53	-12.89	QP	---	---
2	55.21	36.18	40.00	-3.82	49.83	-13.65	QP	---	---
3	305.24	37.11	46.00	-8.89	49.63	-12.52	Peak	---	---
4	494.85	37.25	46.00	-8.75	45.01	-7.76	Peak	---	---
5	800.25	39.09	46.00	-6.91	41.65	-2.56	Peak	---	---
6	885.96	40.48	46.00	-5.52	41.44	-0.96	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.

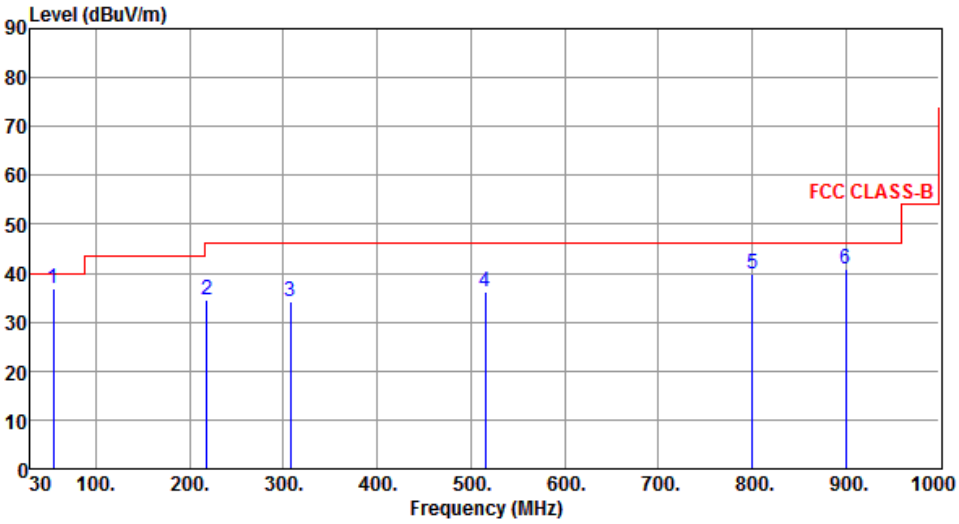
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	307.51	37.97	46.00	-8.03	50.42	-12.45	Peak	---	---
2	345.41	32.99	46.00	-13.01	44.55	-11.56	Peak	---	---
3	527.35	40.64	46.00	-5.36	47.97	-7.33	Peak	---	---
4	600.27	42.71	46.00	-3.29	48.43	-5.72	Peak	---	---
5	800.18	38.79	46.00	-7.21	41.35	-2.56	Peak	---	---
6	900.09	41.29	46.00	-4.71	41.96	-0.67	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.

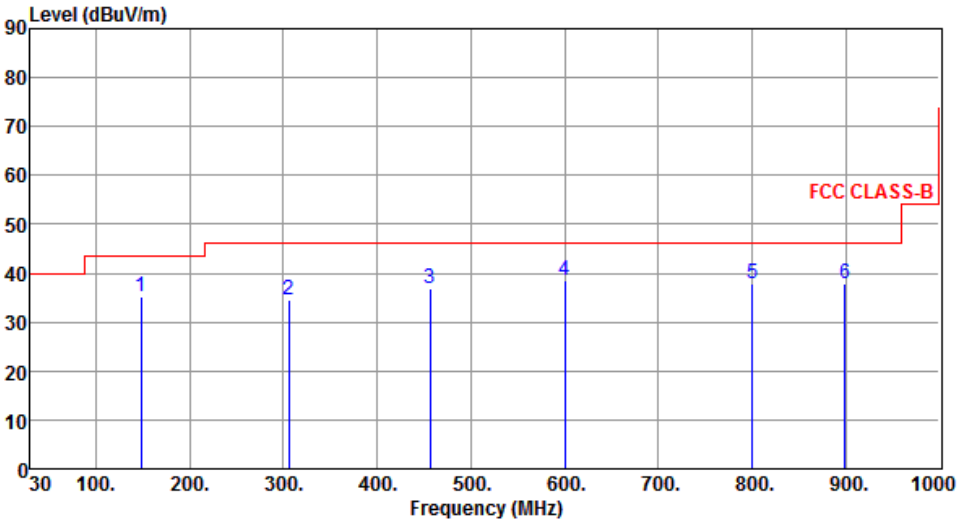
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	54.33	36.92	40.00	-3.08	50.45	-13.53	QP	---	---
2	218.16	34.39	46.00	-11.61	50.45	-16.06	Peak	---	---
3	307.38	34.28	46.00	-11.72	46.74	-12.46	Peak	---	---
4	515.56	36.16	46.00	-9.84	43.61	-7.45	Peak	---	---
5	800.18	39.77	46.00	-6.23	42.33	-2.56	Peak	---	---
6	899.65	40.98	46.00	-5.02	41.66	-0.68	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.

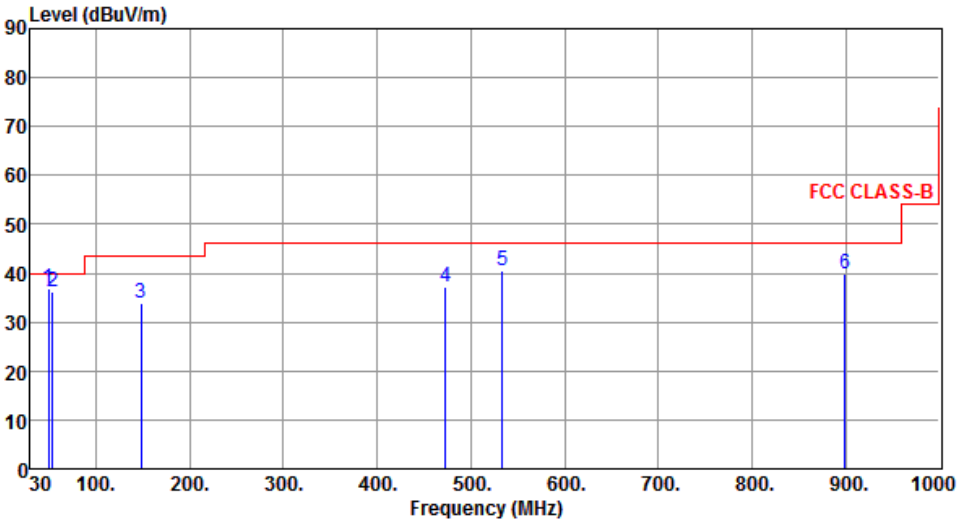
Modulation	VHT20	**Test Freq. (MHz)**	5200
Polarization	Horizontal	**Test Configuration**	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	148.52	35.18	43.50	-8.32	48.64	-13.46	Peak	---	---
2	305.65	34.65	46.00	-11.35	47.16	-12.51	Peak	---	---
3	456.27	36.70	46.00	-9.30	45.33	-8.63	Peak	---	---
4	600.27	38.59	46.00	-7.41	44.31	-5.72	Peak	---	---
5	800.24	37.87	46.00	-8.13	40.43	-2.56	Peak	---	---
6	899.56	37.86	46.00	-8.14	38.54	-0.68	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.

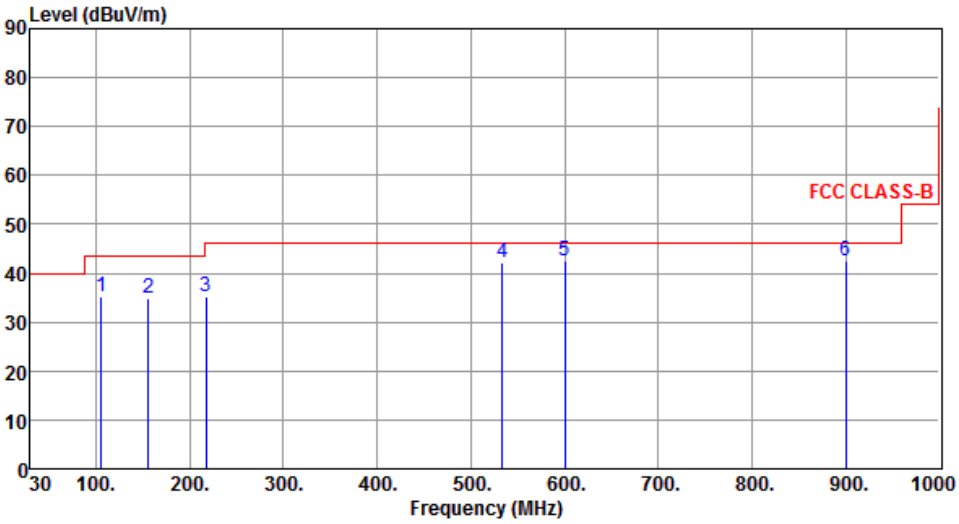
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	49.51	36.71	40.00	-3.29	49.66	-12.95	QP	---	---
2	53.45	36.23	40.00	-3.77	49.65	-13.42	QP	---	---
3	148.42	33.84	43.50	-9.66	47.31	-13.47	Peak	---	---
4	473.35	37.22	46.00	-8.78	45.46	-8.24	Peak	---	---
5	533.62	40.60	46.00	-5.40	47.85	-7.25	Peak	---	---
6	899.36	39.87	46.00	-6.13	40.55	-0.68	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.

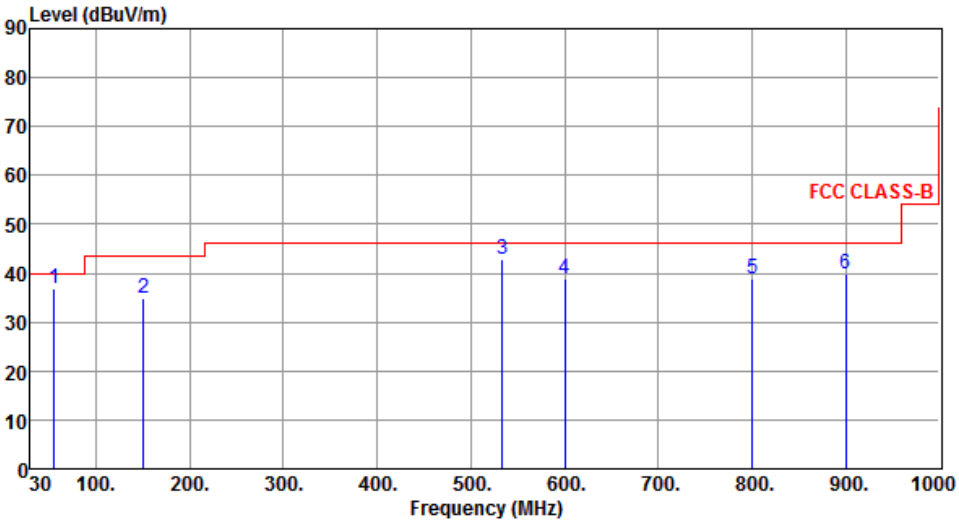
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal	Test Configuration	4



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	105.53	35.22	43.50	-8.28	52.64	-17.42	Peak	---	---
2	156.24	34.79	43.50	-8.71	48.33	-13.54	Peak	---	---
3	217.42	35.14	46.00	-10.86	51.24	-16.10	Peak	---	---
4	533.62	42.23	46.00	-3.77	49.48	-7.25	Peak	---	---
5	600.24	42.38	46.00	-3.62	48.10	-5.72	Peak	---	---
6	899.86	42.63	46.00	-3.37	43.30	-0.67	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	HT20	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	4

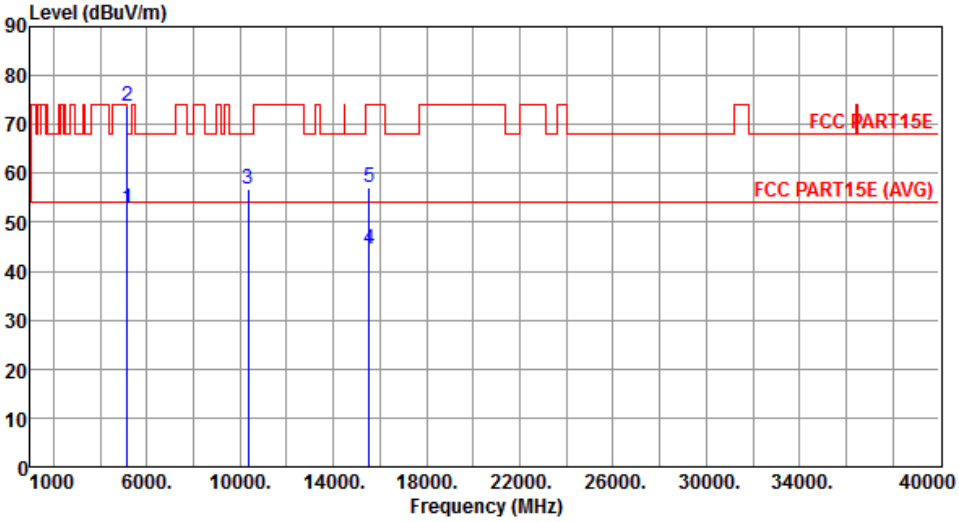


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	55.38	36.75	40.00	-3.25	50.42	-13.67	QP	---	---
2	150.43	34.89	43.50	-8.61	48.32	-13.43	Peak	---	---
3	533.36	42.81	46.00	-3.19	50.07	-7.26	QP	---	---
4	600.16	38.73	46.00	-7.27	44.45	-5.72	Peak	---	---
5	800.18	38.97	46.00	-7.03	41.53	-2.56	Peak	---	---
6	899.96	39.75	46.00	-6.25	40.42	-0.67	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.

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

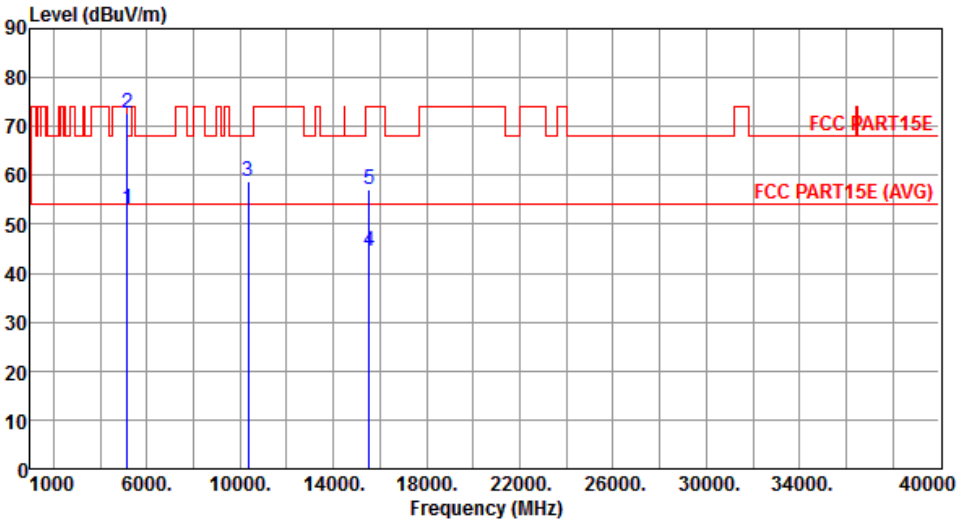
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal	Test Configuration	3



	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	52.90	54.00	-1.10	46.71	6.19	Average	275	27
2	5150.00	73.80	74.00	-0.20	67.61	6.19	Peak	275	4
3	10360.00	56.76	68.20	-11.44	40.52	16.24	Peak	269	358
4	15540.00	44.34	54.00	-9.66	26.95	17.39	Average	217	305
5	15540.00	57.17	74.00	-16.83	39.78	17.39	Peak	217	305

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).

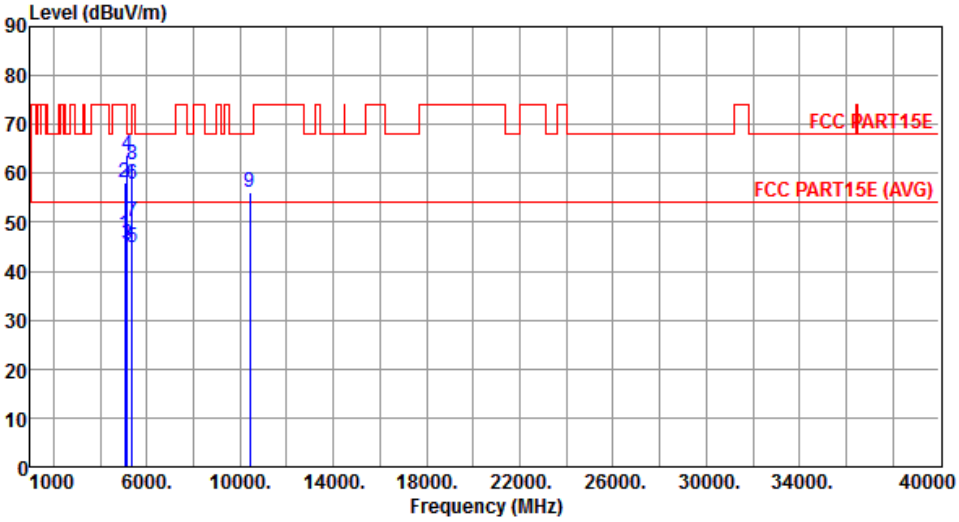
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical	Test Configuration	3



	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	53.21	54.00	-0.79	46.63	6.58	Average	230	232
2	5150.00	72.83	74.00	-1.17	66.25	6.58	Peak	230	232
3	10360.00	58.62	68.20	-9.58	42.21	16.41	Peak	303	266
4	15540.00	44.37	54.00	-9.63	26.45	17.92	Average	167	114
5	15540.00	57.20	74.00	-16.80	39.28	17.92	Peak	167	114

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).

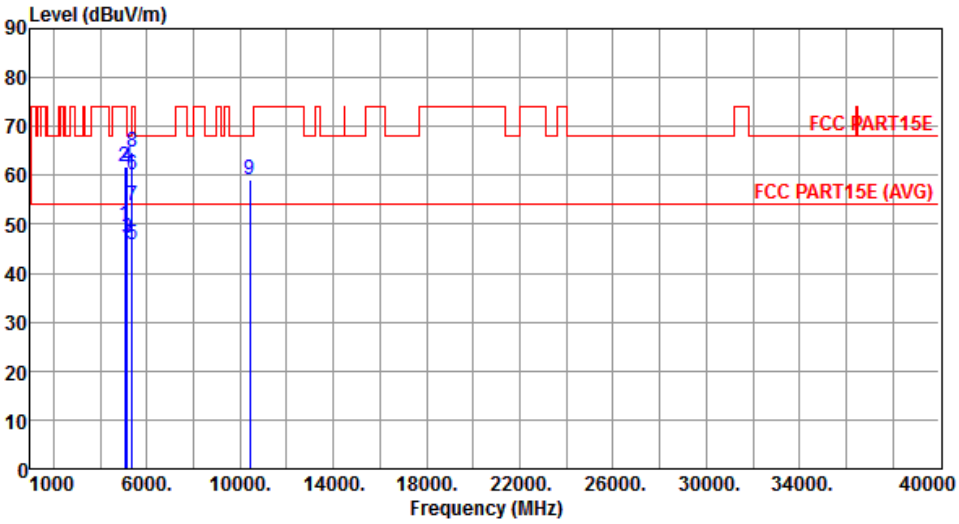
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5040.00	47.36	54.00	-6.64	41.35	6.01	Average	224	30
2	5040.00	58.22	74.00	-15.78	52.21	6.01	Peak	224	30
3	5150.00	45.49	54.00	-8.51	38.91	6.58	Average	224	30
4	5150.00	63.85	74.00	-10.15	57.27	6.58	Peak	224	30
5	5350.00	44.79	54.00	-9.21	37.76	7.03	Average	224	29
6	5350.00	57.66	74.00	-16.34	50.63	7.03	Peak	224	29
7	5360.00	50.28	54.00	-3.72	43.22	7.06	Average	224	29
8	5360.00	61.64	74.00	-12.36	54.58	7.06	Peak	224	29
9	10400.00	56.25	68.20	-11.95	39.76	16.49	Peak	231	355

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).

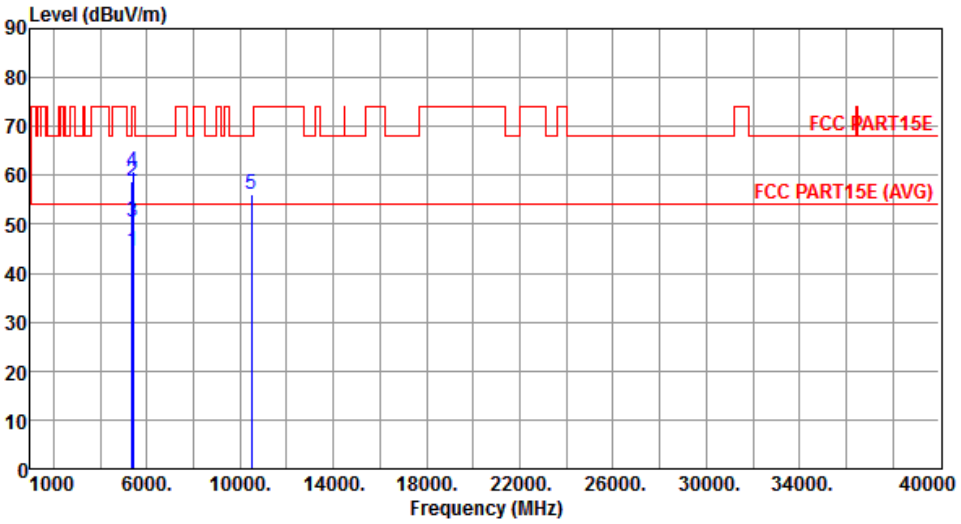
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5040.00	49.90	54.00	-4.10	43.52	6.38	Average	248	249
2	5040.00	61.68	74.00	-12.32	55.30	6.38	Peak	248	249
3	5150.00	47.03	54.00	-6.97	40.45	6.58	Average	233	270
4	5150.00	61.77	74.00	-12.23	55.19	6.58	Peak	233	270
5	5350.00	45.81	54.00	-8.19	38.78	7.03	Average	233	270
6	5350.00	60.03	74.00	-13.97	53.00	7.03	Peak	233	270
7	5360.00	53.80	54.00	-0.20	46.74	7.06	Average	233	270
8	5360.00	64.80	74.00	-9.20	57.74	7.06	Peak	233	270
9	10400.00	59.24	68.20	-8.96	42.75	16.49	Peak	275	204

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).

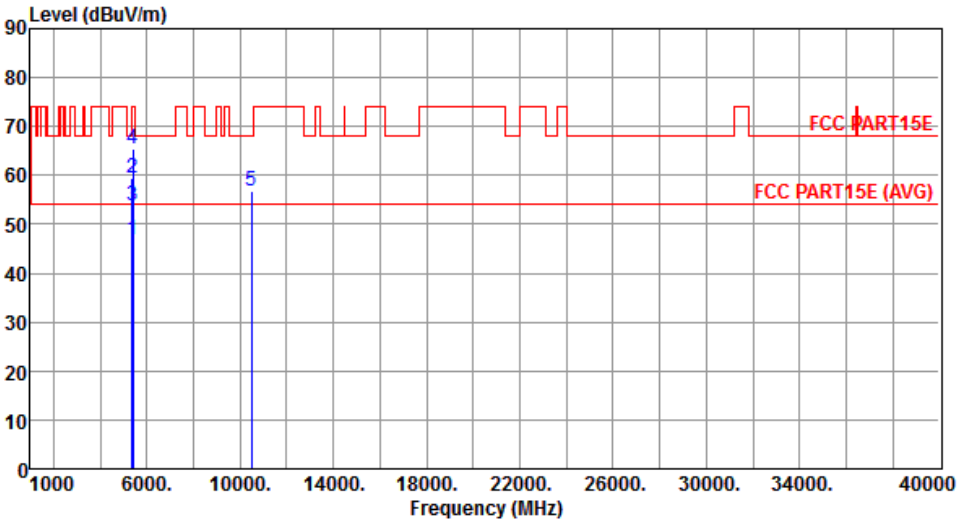
Modulation	VHT20	**Test Freq. (MHz)**	5240
Polarization	Horizontal	**Test Configuration**	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	44.55	54.00	-9.45	37.52	7.03	Average	231	25
2	5350.00	58.92	74.00	-15.08	51.89	7.03	Peak	231	25
3	5400.00	50.61	54.00	-3.39	43.47	7.14	Average	258	74
4	5400.00	60.70	74.00	-13.30	53.56	7.14	Peak	258	74
5	10480.00	56.24	68.20	-11.96	39.58	16.66	Peak	234	113

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).

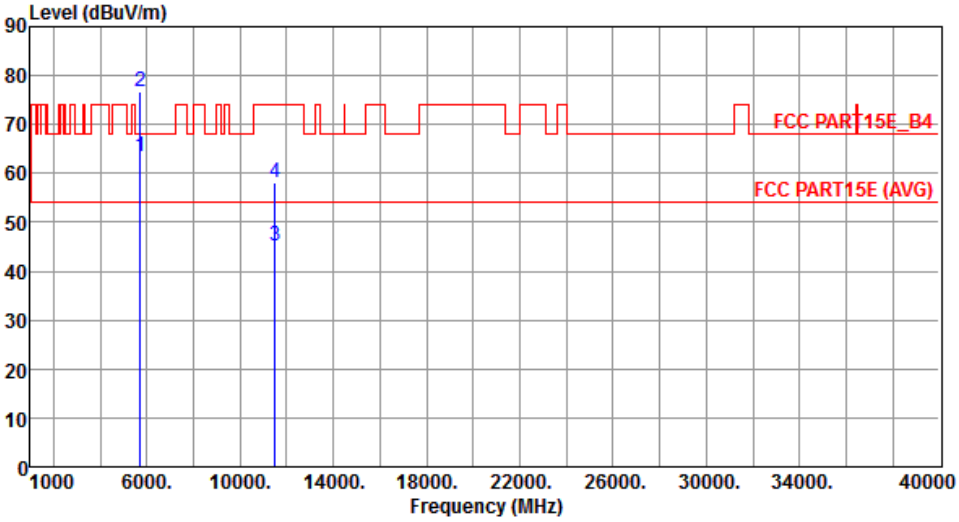
Modulation	VHT20	**Test Freq. (MHz)**	5240
Polarization	Vertical	**Test Configuration**	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.83	54.00	-7.17	39.80	7.03	Average	250	288
2	5350.00	59.53	74.00	-14.47	52.50	7.03	Peak	250	288
3	5400.00	53.84	54.00	-0.16	46.70	7.14	Average	250	288
4	5400.00	65.37	74.00	-8.63	58.23	7.14	Peak	250	288
5	10480.00	56.87	68.20	-11.33	40.21	16.66	Peak	271	356

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).

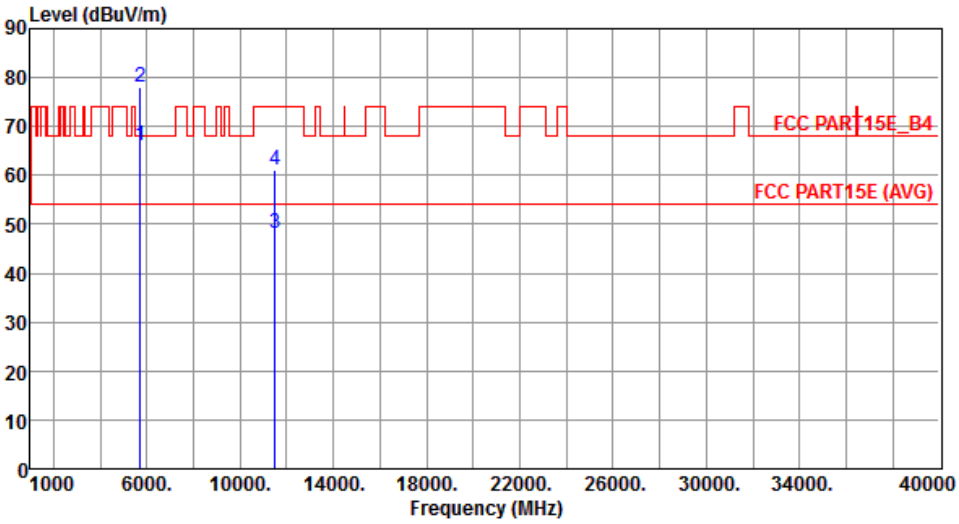
Modulation	VHT20	**Test Freq. (MHz)**	5745
Polarization	Horizontal	**Test Configuration**	3



	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	63.39	68.20	-4.81	55.86	7.53	Peak	153	222
2	5725.00	76.73	78.20	-1.47	69.16	7.57	Peak	153	222
3	11490.00	45.06	54.00	-8.94	27.79	17.27	Average	160	229
4	11490.00	58.15	74.00	-15.85	40.88	17.27	Peak	160	229

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).

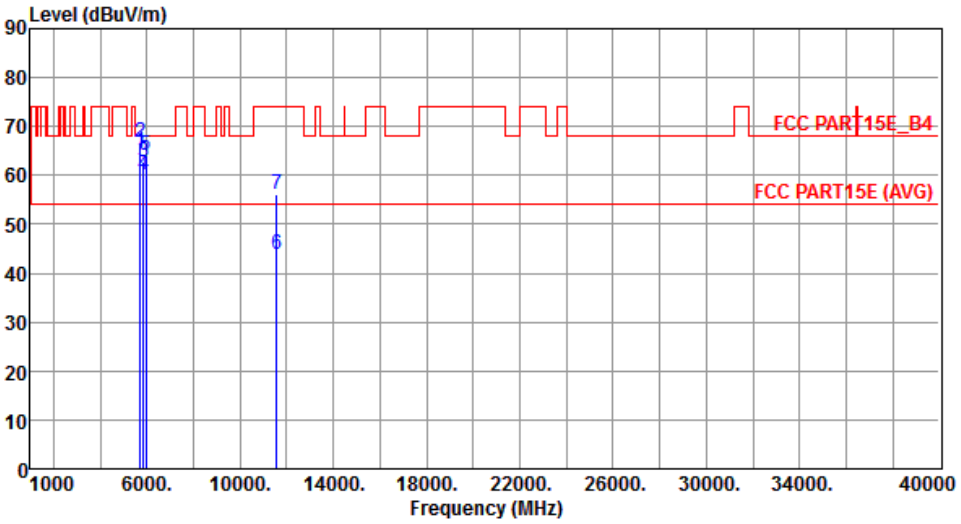
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical	Test Configuration	3



	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	66.08	68.20	-2.12	58.55	7.53	Peak	272	199
2	5725.00	78.05	78.20	-0.15	38.42	39.63	Peak	272	199
3	11490.00	48.31	54.00	-5.69	31.04	17.27	Average	265	208
4	11490.00	61.24	74.00	-12.76	43.97	17.27	Peak	265	208

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).

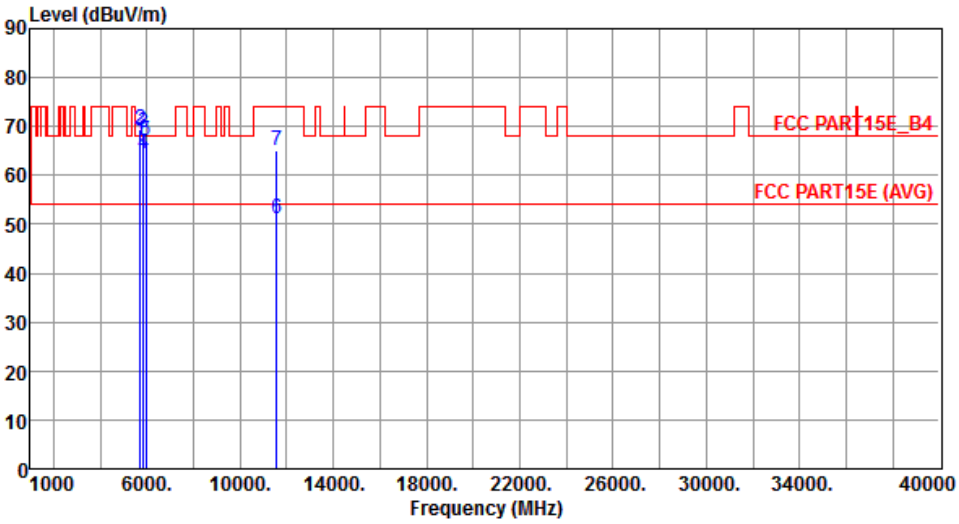
Modulation	VHT20	**Test Freq. (MHz)**	5785
Polarization	Horizontal	**Test Configuration**	3



	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	64.61	68.20	-3.59	57.08	7.53	Peak	240	251
2	5725.00	66.68	78.20	-11.52	59.11	7.57	Peak	240	251
3	5850.00	62.69	78.20	-15.51	54.80	7.89	Peak	240	251
4	5860.00	60.23	68.20	-7.97	52.32	7.91	Peak	240	251
5	5945.00	63.95	68.20	-4.25	55.87	8.08	Peak	240	251
6	11570.00	43.89	54.00	-10.11	26.71	17.18	Average	159	142
7	11570.00	56.27	74.00	-17.73	39.09	17.18	Peak	159	142

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).

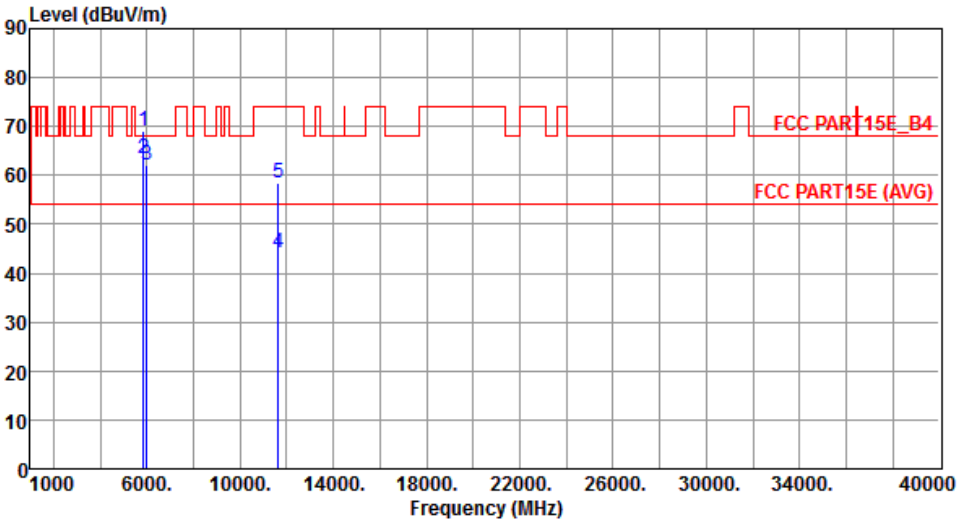
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical	Test Configuration	3



	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	67.10	68.20	-1.10	59.57	7.53	Peak	249	252
2	5725.00	69.38	78.20	-8.82	61.81	7.57	Peak	249	252
3	5850.00	68.65	78.20	-9.55	60.76	7.89	Peak	249	252
4	5860.00	64.59	68.20	-3.61	56.68	7.91	Peak	249	252
5	5945.00	67.04	68.20	-1.16	58.96	8.08	Peak	252	273
6	11570.00	51.18	54.00	-2.82	34.00	17.18	Average	311	311
7	11570.00	65.16	74.00	-8.84	47.98	17.18	Peak	311	311

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).

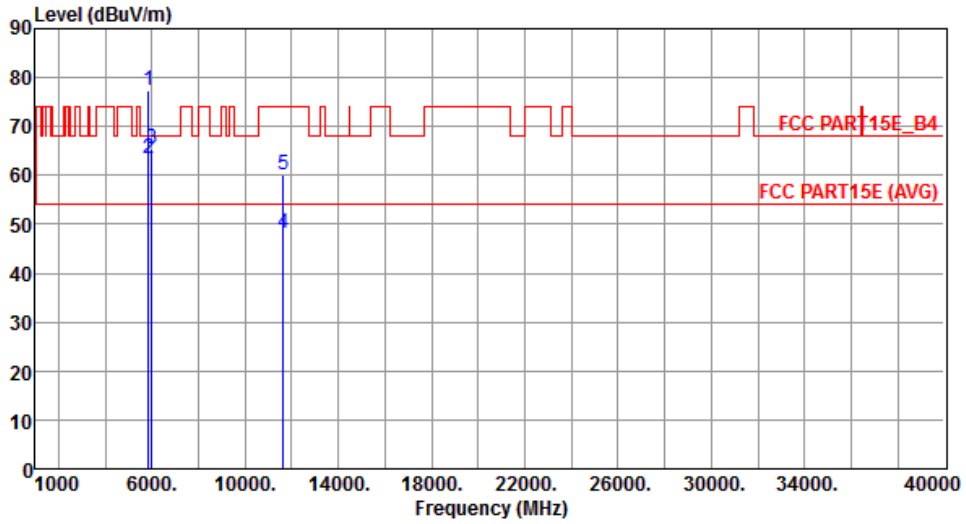
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal	Test Configuration	3



	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	68.99	78.20	-9.21	61.10	7.89	Peak	246	192
2	5860.00	63.49	68.20	-4.71	55.58	7.91	Peak	246	192
3	5980.00	62.19	68.20	-6.01	54.05	8.14	Peak	311	58
4	11650.00	44.15	54.00	-9.85	27.08	17.07	Average	251	236
5	11650.00	58.36	74.00	-15.64	41.29	17.07	Peak	251	236

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**	3

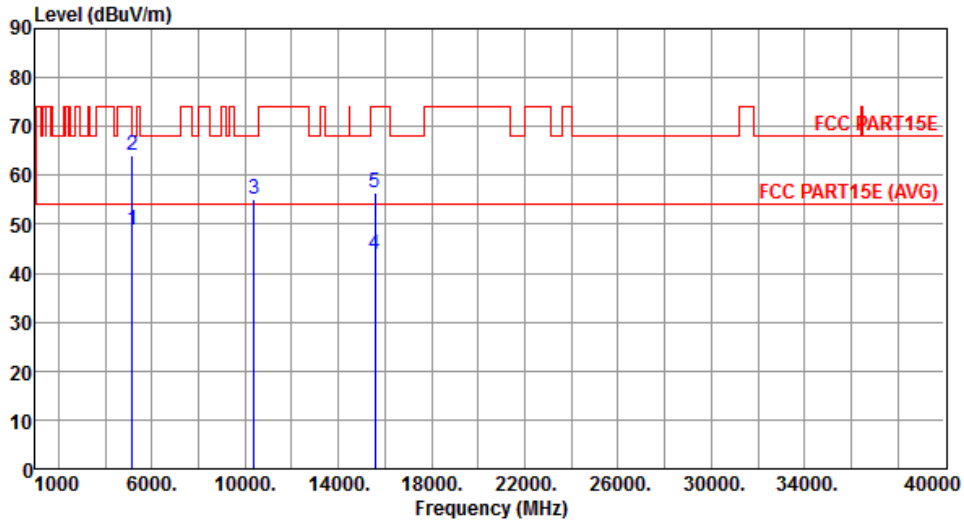


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	77.49	78.20	-0.71	69.60	7.89	Peak	224	333
2	5860.00	63.34	68.20	-4.86	55.43	7.91	Peak	224	333
3	5980.00	65.26	68.20	-2.94	57.12	8.14	Peak	225	250
4	11650.00	48.25	54.00	-5.75	31.18	17.07	Average	259	118
5	11650.00	59.96	74.00	-14.04	42.89	17.07	Peak	259	118

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).

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

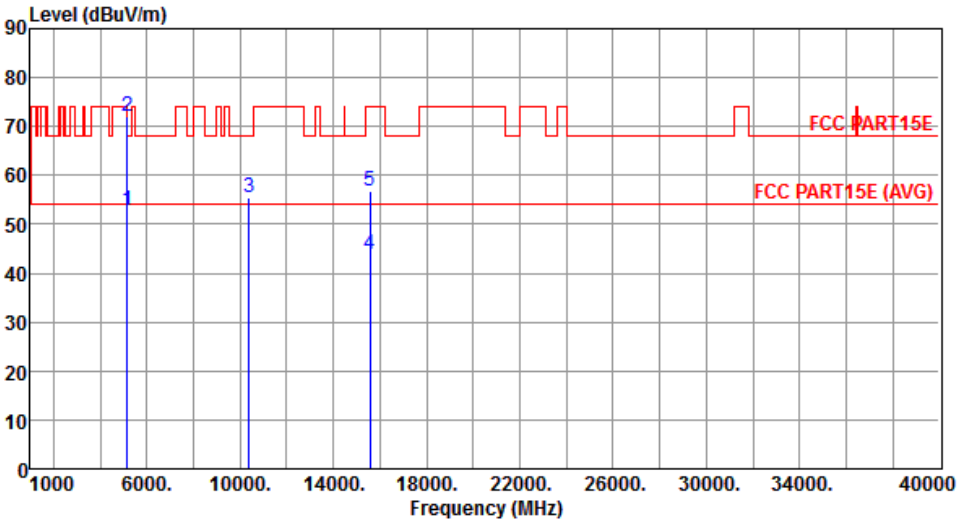
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.92	54.00	-5.08	42.73	6.19	Average	238	55
2	5150.00	64.21	74.00	-9.79	58.02	6.19	Peak	238	55
3	10380.00	55.16	68.20	-13.04	38.90	16.26	Peak	261	194
4	15570.00	43.82	54.00	-10.18	26.50	17.32	Average	261	201
5	15570.00	56.35	74.00	-17.65	39.03	17.32	Peak	261	201

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

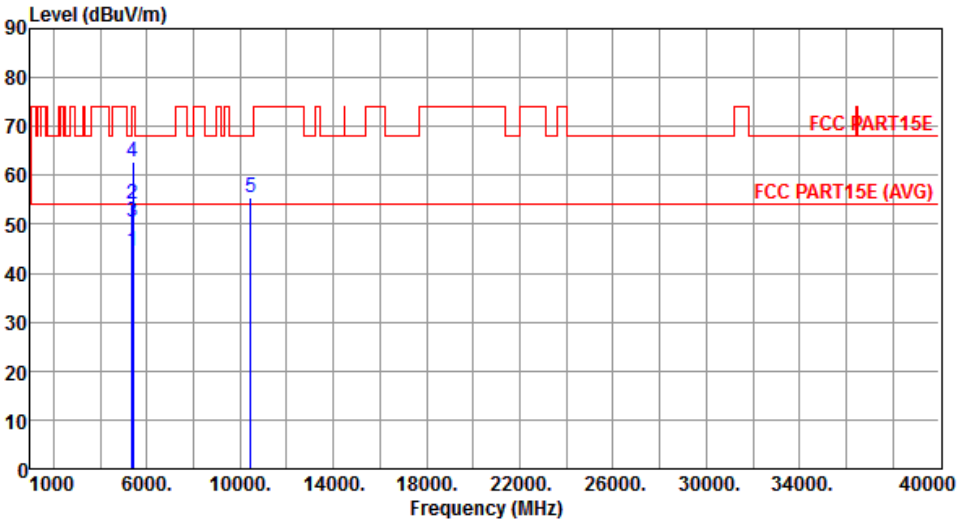
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical	Test Configuration	3



	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	52.70	54.00	-1.30	46.12	6.58	Average	240	236
2	5150.00	72.19	74.00	-1.81	65.61	6.58	Peak	240	236
3	10380.00	55.36	68.20	-12.84	38.92	16.44	Peak	226	135
4	15570.00	43.86	54.00	-10.14	26.04	17.82	Average	226	149
5	15570.00	56.95	74.00	-17.05	39.13	17.82	Peak	226	149

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).

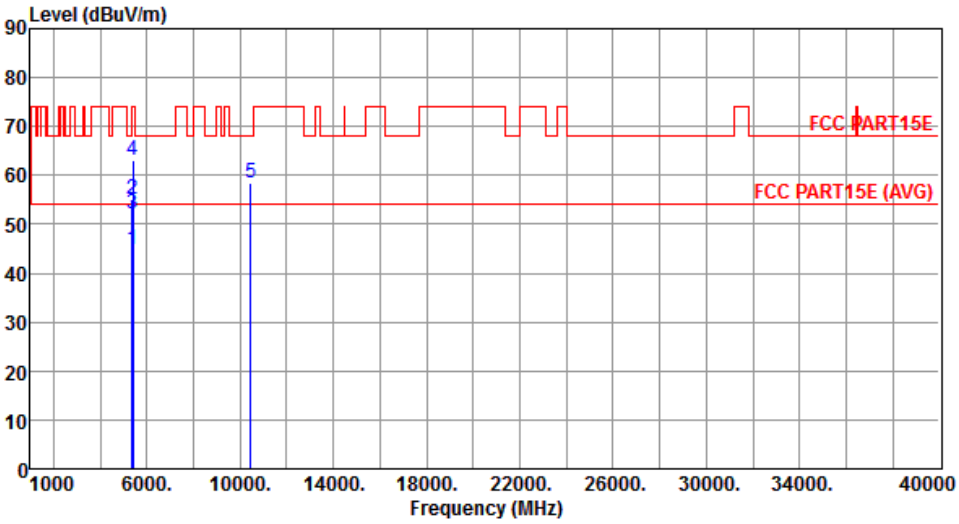
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	44.35	54.00	-9.65	37.32	7.03	Average	231	49
2	5350.00	54.21	74.00	-19.79	47.18	7.03	Peak	231	49
3	5390.00	50.49	54.00	-3.51	43.38	7.11	Average	219	102
4	5390.00	62.81	74.00	-11.19	55.70	7.11	Peak	219	102
5	10460.00	55.62	68.20	-12.58	38.99	16.63	Peak	234	251

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).

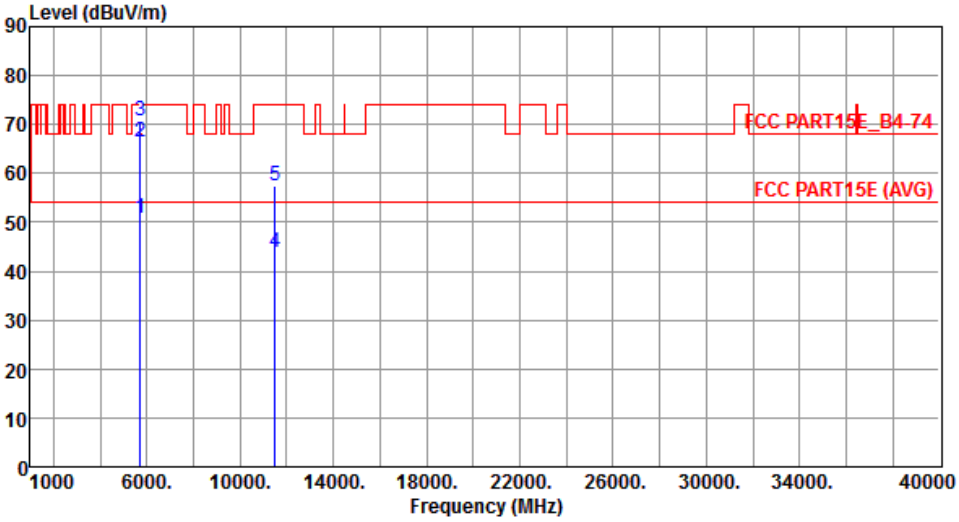
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	44.86	54.00	-9.14	37.83	7.03	Average	224	235
2	5350.00	55.01	74.00	-18.99	47.98	7.03	Peak	224	235
3	5390.00	51.98	54.00	-2.02	44.87	7.11	Average	224	235
4	5390.00	62.94	74.00	-11.06	55.83	7.11	Peak	224	235
5	10460.00	58.61	68.20	-9.59	41.98	16.63	Peak	216	203

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).

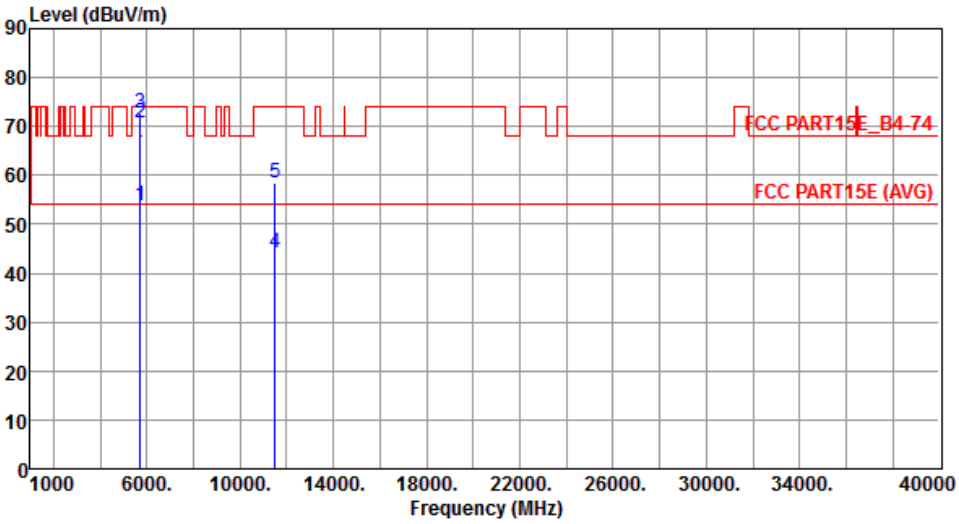
Modulation	VHT40	**Test Freq. (MHz)**	5755
Polarization	Horizontal	**Test Configuration**	3



	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	50.83	54.00	-3.17	43.30	7.53	Average	254	252
2	5715.00	66.51	74.00	-7.49	58.98	7.53	Peak	254	252
3	5725.00	70.79	78.20	-7.41	63.22	7.57	Peak	254	252
4	11510.00	43.99	54.00	-10.01	26.72	17.27	Average	271	345
5	11510.00	57.33	74.00	-16.67	40.06	17.27	Peak	271	345

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).

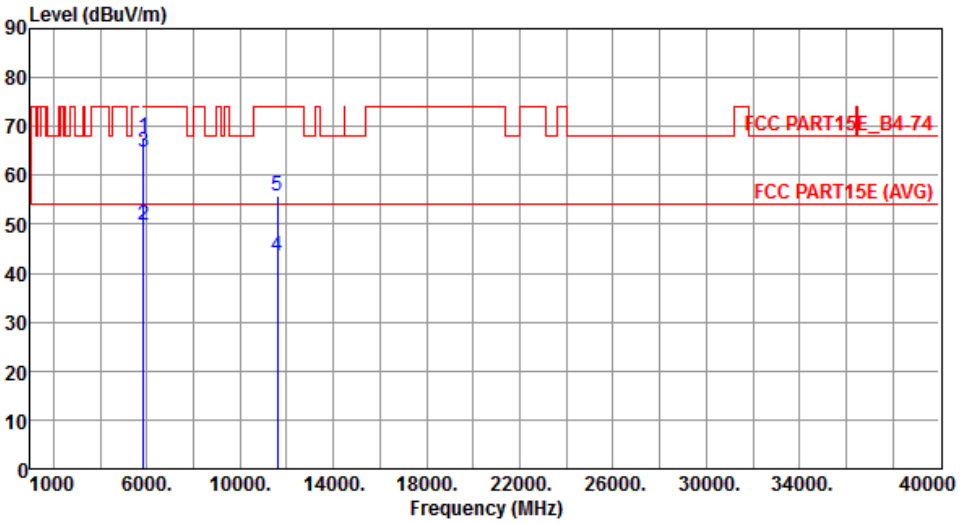
Modulation	VHT40	**Test Freq. (MHz)**	5755
Polarization	Vertical	**Test Configuration**	3



	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	53.85	54.00	-0.15	46.32	7.53	Average	239	254
2	5715.00	70.76	74.00	-3.24	63.23	7.53	Peak	239	254
3	5725.00	72.88	78.20	-5.32	65.31	7.57	Peak	239	254
4	11510.00	44.08	54.00	-9.92	26.81	17.27	Average	227	103
5	11510.00	58.53	74.00	-15.47	41.26	17.27	Peak	227	103

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).

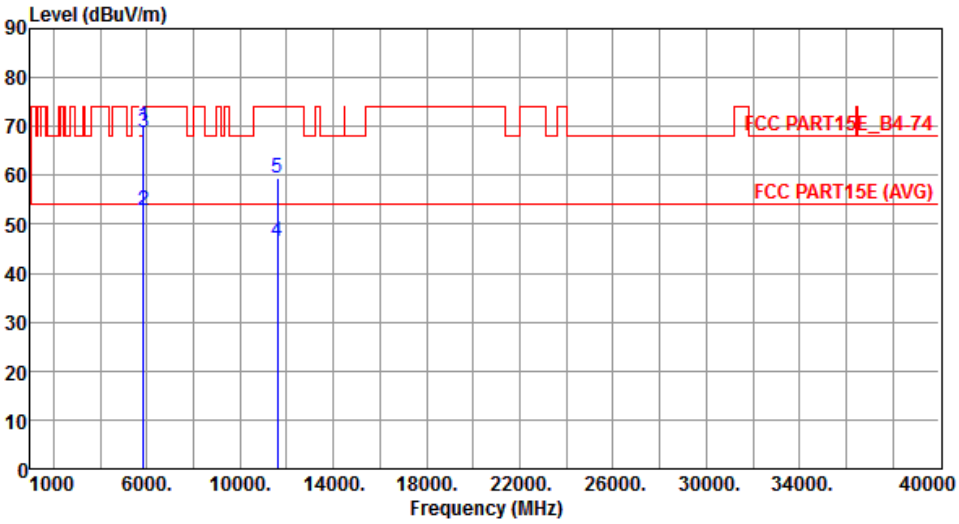
Modulation	VHT40	**Test Freq. (MHz)**	5795
Polarization	Horizontal	**Test Configuration**	3



	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	67.71	78.20	-10.49	59.82	7.89	Peak	243	221
2	5860.00	49.66	54.00	-4.34	41.75	7.91	Average	243	221
3	5860.00	64.74	74.00	-9.26	56.83	7.91	Peak	243	221
4	11590.00	43.48	54.00	-10.52	26.33	17.15	Average	215	177
5	11590.00	55.95	74.00	-18.05	38.80	17.15	Peak	215	177

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**	3

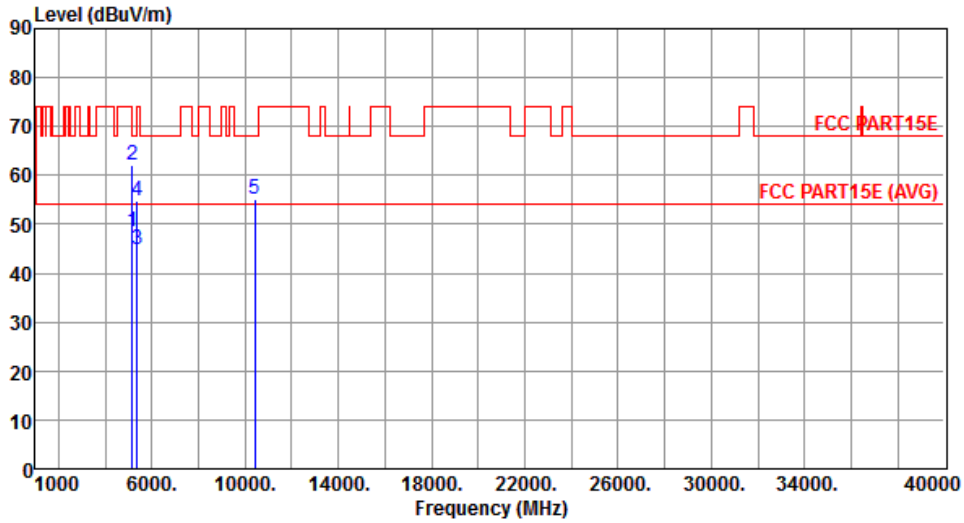


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	70.03	78.20	-8.17	62.14	7.89	Peak	278	96
2	5860.00	52.94	54.00	-1.06	45.03	7.91	Average	278	96
3	5860.00	68.86	74.00	-5.14	60.95	7.91	Peak	278	96
4	11590.00	46.45	54.00	-7.55	29.30	17.15	Average	335	317
5	11590.00	59.45	74.00	-14.55	42.30	17.15	Peak	335	317

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 VHT80

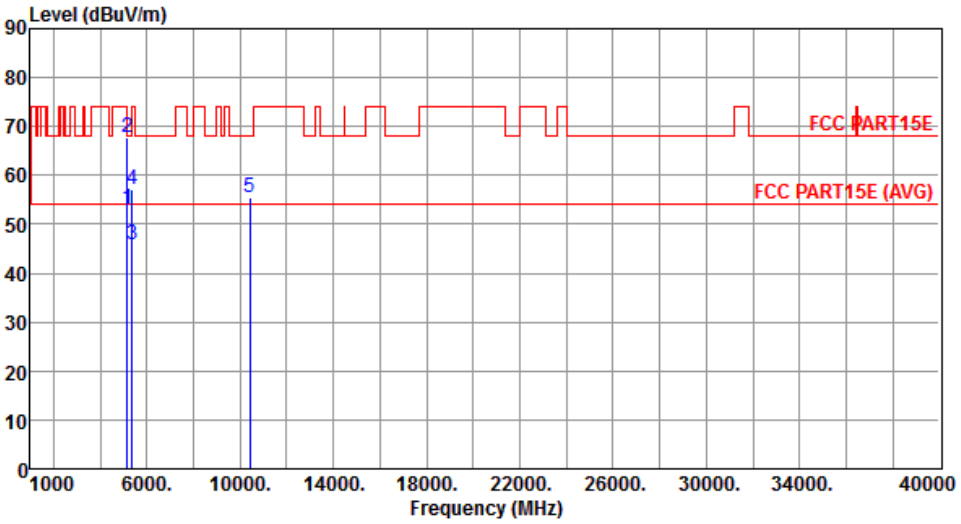
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.57	54.00	-5.43	41.99	6.58	Average	228	270
2	5150.00	62.25	74.00	-11.75	55.67	6.58	Peak	228	270
3	5350.00	44.85	54.00	-9.15	37.82	7.03	Average	228	214
4	5350.00	54.82	74.00	-19.18	47.79	7.03	Peak	228	214
5	10420.00	55.07	68.20	-13.13	38.54	16.53	Peak	211	305

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).

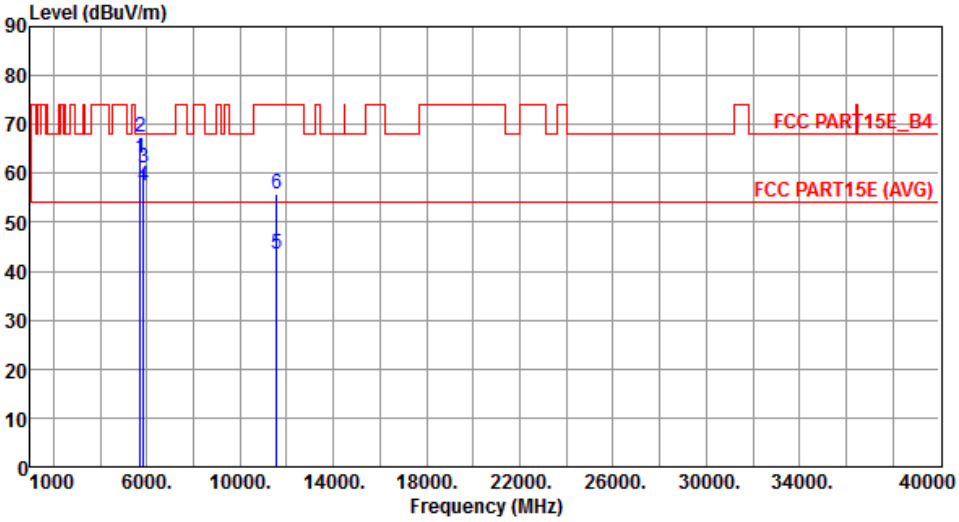
Modulation	VHT80	**Test Freq. (MHz)**	5210
Polarization	Vertical	**Test Configuration**	3



	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	53.09	54.00	-0.91	46.51	6.58	Average	217	233
2	5150.00	67.64	74.00	-6.36	61.06	6.58	Peak	217	233
3	5350.00	45.79	54.00	-8.21	38.76	7.03	Average	258	274
4	5350.00	57.15	74.00	-16.85	50.12	7.03	Peak	258	274
5	10420.00	55.45	68.20	-12.75	38.92	16.53	Peak	217	332

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).

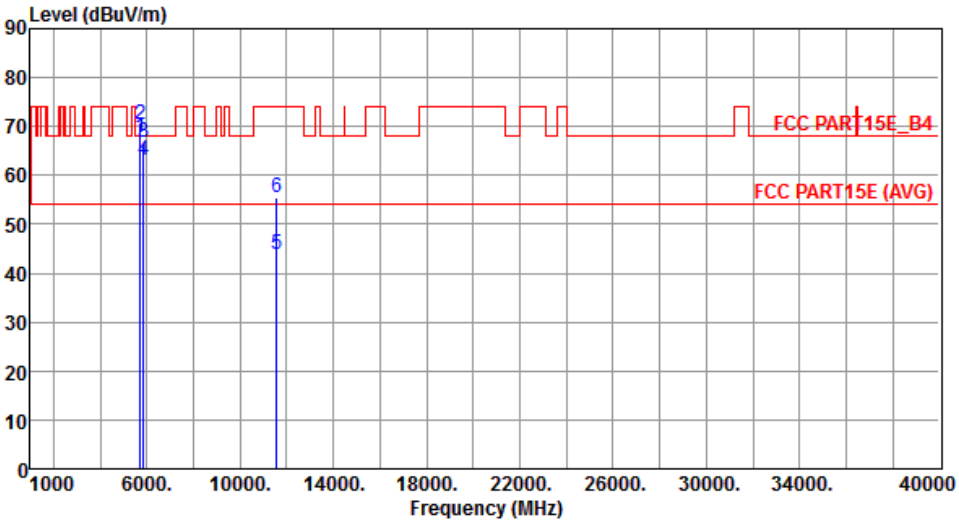
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal	Test Configuration	3



	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	63.26	68.20	-4.94	55.73	7.53	Peak	214	60
2	5725.00	67.45	78.20	-10.75	59.88	7.57	Peak	214	60
3	5850.00	61.19	78.20	-17.01	53.30	7.89	Peak	305	201
4	5860.00	57.47	68.20	-10.73	49.56	7.91	Peak	305	201
5	11550.00	43.41	54.00	-10.59	26.20	17.21	Average	254	35
6	11550.00	55.83	74.00	-18.17	38.62	17.21	Peak	254	35

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	3



	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	67.65	68.20	-0.55	60.12	7.53	Peak	229	250
2	5725.00	70.45	78.20	-7.75	62.88	7.57	Peak	229	250
3	5850.00	66.66	78.20	-11.54	58.77	7.89	Peak	255	253
4	5860.00	63.17	68.20	-5.03	55.26	7.91	Peak	255	253
5	11550.00	43.91	54.00	-10.09	26.70	17.21	Average	208	2
6	11550.00	55.34	74.00	-18.66	38.13	17.21	Peak	208	2

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

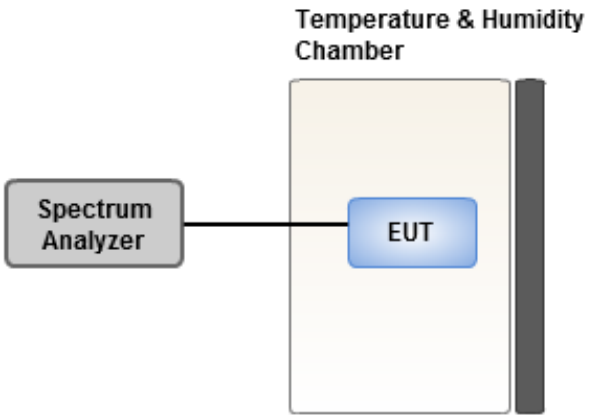
3.6.1 Limit of Frequency Stability

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	4.93	5.47	4.87	5.75
T20°CVmin	4.04	4.52	4.84	4.06
T50°CVnom	3.31	3.21	2.84	3.10
T40°CVnom	3.84	4.01	4.38	4.46
T30°CVnom	3.78	4.13	4.22	4.49
T20°CVnom	3.21	3.55	3.46	2.96
T10°CVnom	3.39	3.60	3.68	3.57
T0°CVnom	3.21	2.89	2.95	2.92
T-10°CVnom	2.40	2.26	2.66	2.44
T-20°CVnom	1.96	1.18	1.23	0.88
T-30°CVnom	1.63	1.24	1.32	1.30
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 50		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	5.89	5.96	5.88	5.86
T20°CVmin	4.77	4.83	4.87	4.80
T50°CVnom	4.67	4.72	4.79	4.70
T40°CVnom	3.92	3.93	3.99	4.03
T30°CVnom	4.51	4.49	4.42	4.43
T20°CVnom	3.44	3.44	3.53	3.57
T10°CVnom	3.50	3.55	3.48	3.56
T0°CVnom	3.16	3.19	3.20	3.30
T-10°CVnom	1.42	1.44	1.52	1.61
T-20°CVnom	1.55	1.69	1.76	1.77
T-30°CVnom	2.50	2.49	2.52	2.64
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 50		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.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666
Fax: 886-3-318-0155
Email: ICC_Service@icertifi.com.tw

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