FCC C2PC Test Report

FCC ID	:	**UIDSBR-AC1200P**
Equipment	:	**AC1200 Wi-Fi Router with RipCurrent™ Technology**
Model No.	:	**SBR-AC1200P**
Brand Name	:	**ARRIS**
Applicant	:	**ARRIS Group, Inc.**
Address	:	**3871 Lakefield Drive, Suite 300, Suwanee, Georgia 30024, United States**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**May 25, 2016**
Tested Date	:	**May 30 ~ Jun. 20, 2016**

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.

Reviewed by:

Along Chen / Assistant Manager

Approved by:

Gary Chang / Manager

Testing Laboratory 2732

Table of Contents

1 GENERAL DESCRIPTION 5

1.1 Information 5
1.2 Local Support Equipment List 9
1.3 Test Setup Chart 9
1.4 The Equipment List 10
1.5 Testing Applied Standards 11
1.6 Measurement Uncertainty 11

2 TEST CONFIGURATION 12

2.1 Testing Condition 12
2.2 The Worst Test Modes and Channel Details 12

3 TRANSMITTER TEST RESULTS 14

3.1 Conducted Emissions 14
3.2 Emission Bandwidth 19
3.3 RF Output Power 25
3.4 Peak Power Spectral Density 30
3.5 Transmitter Radiated and Band Edge Emissions 35
3.6 Frequency Stability 120

4 TEST LABORATORY INFORMATION 122

Release Record

Report No.	Version	Description	Issued Date
FR592203-02AN	Rev. 01	Initial issue	Oct. 07, 2016

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.240MHz 42.16 (Margin -9.92dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5350.00MHz 52.97 (Margin -1.03dB) - AV [dBuV/m at 3m]: 5470.00MHz 72.97 (Margin -1.03dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: ***Non-beamforming mode*** 5250~5350MHz: 23.90 5470~5725MHz: 23.93 ***Beamforming mode*** 5250~5350MHz: 23.55 5470~5725MHz: 23.52	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

This report is issued as a FCC Class II Permissive Change. The modification is only concerned with adding 5250~5350MHz and 5470~5725 MHz band by software setting.

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**
5250-5350 5470-5725	a	5260-5320 5500-5720	52-64 [4] 100-144 [9]	2	6-54 Mbps
5250-5350 5470-5725	n (HT20)	5260-5320 5500-5720	52-64 [4] 100-144 [9]	2	MCS 0-15
5250-5350 5470-5725	n (HT40)	5270-5310 5510-5710	54-62 [2] 102-142 [4]	2	MCS 0-15
5250-5350 5470-5725	ac (VHT20)	5260-5320 5500-5720	52-64 [4] 100-144 [9]	2	MCS 0-9
5250-5350 5470-5725	ac (VHT40)	5270-5310 5510-5710	54-62 [2] 102-142 [4]	2	MCS 0-9
5250-5350 5470-5725	ac (VHT80)	5290 5530~5690	58 [1] 106-138 [2]	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: 802.11n/ac supports beamforming mode. Note 4: The device has disabled the 5600-5650MHz band by S/W setting.					

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Antenna Gain (dBi)	
				5250~5350 MHz	5470~5725 MHz
1	617210JP	PIFA	I-pex	2.87	3.2
2	617210K2	PIFA	I-pex	3.23	3.54

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	100-240Vac, 50-60Hz, 1.0A Power line: 1.5m non-shielded without core

1.1.4 Accessories

Accessories		
No.	**Equipment**	**Description**
1	RJ45 cable	1m non-shielded without core

1.1.5 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	**Frequency(MHz)**	**Channel**	**Frequency(MHz)**
52	5260	54	5270
56	5280	62	5310
60	5300	102	5510
64	5320	110	5550
100	5500	134	5670
104	5520	142	5710
108	5540	**VHT80**	
112	5560	58	5290
116	5580	106	5530
132	5660	138	5690
136	5680	---	---
140	5700	---	---
144	5720	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	MTool, version: 2.0.2.7				
Duty Cycle and Duty Factor	**Mode**	**Non-beamforming**		**Beamforming**	
		Duty cycle (%)	**Duty factor (dB)**	**Duty cycle (%)**	**Duty factor (dB)**
	11a	99.31%	0.03	---	---
	HT20	99.26%	0.03	98.68%	0.06
	HT40	98.23%	0.08	98.47%	0.07
	VHT20	99.26%	0.03	98.68%	0.06
	VHT40	98.23%	0.08	98.47%	0.07
	VHT80	99.36%	0.03	98.62%	0.06

1.1.7 Power Setting

For Frequency band 5250~5350 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5260	82	---
11a	5300	82	---
11a	5320	82	---
HT20	5260	82	82
HT20	5300	82	82
HT20	5320	78	78
HT40	5270	85	84
HT40	5310	73	70
VHT20	5260	82	82
VHT20	5300	82	82
VHT20	5320	78	78
VHT40	5270	85	84
VHT40	5310	73	70
VHT80	5290	67	68

For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5500	80	---
11a	5580	82	---
11a	5700	72	---
HT20	5500	78	78
HT20	5580	82	78
HT20	5700	70	70
HT40	5510	70	70
HT40	5550	85	84
HT40	5670	79	74
VHT20	5500	78	78
VHT20	5580	82	78
VHT20	5700	70	70
VHT40	5510	70	70
VHT40	5550	85	84
VHT40	5670	79	74
VHT80	5530	66	66

Channel that extends across the 5.725 GHz boundary

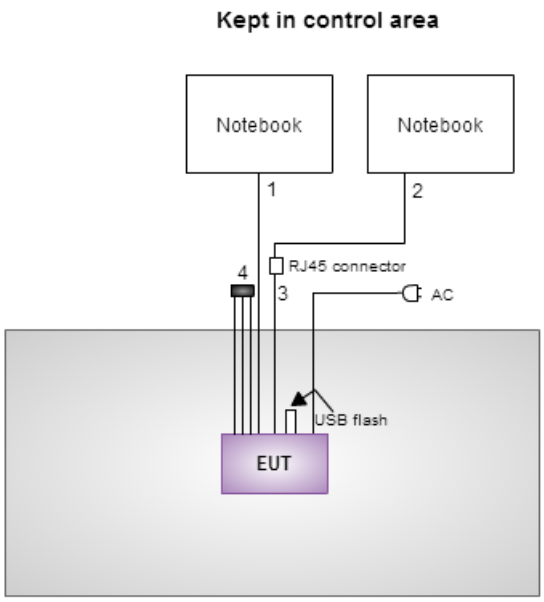
For Frequency band 5470~5725 MHz			
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11a	5720	82	---
HT20	5720	83	78
HT40	5710	85	84
VHT20	5720	83	78
VHT40	5710	85	84
VHT80	5690	83	81

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Signal cable / Length (m)**
1	Notebook	DELL	Latitude E6430	DoC	RJ45, 10m non-shielded.
2	Notebook	DELL	Latitude E6430	DoC	RJ45, 10m non-shielded.
3	USB 2.0 flash	Kingston	DTSE9	---	---
4	Load	ICC	---	---	RJ45, 1.5m non-shielded x3.

1.3 Test Setup Chart

Test Setup Diagram



1. RJ45, 10m non-shielded
2. RJ45, 10m non-shielded
3. RJ45, 1m non-shielded
4. RJ45, 1.5m (x3) non-shielded with load

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. 21, 2015	Oct. 20, 2016
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2015	Nov. 12, 2016
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 21, 2015	Dec. 20, 2016
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 2 / (03CH02-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101499	Dec. 17, 2015	Dec. 16, 2016
Receiver	R&S	ESR3	101657	Jan. 12, 2016	Jan. 11, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-523	Nov. 09, 2015	Nov. 08, 2016
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Oct. 07, 2015	Oct. 06, 2016
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016
Preamplifier	Burgeon	BPA-530	100218	Nov. 03, 2015	Nov. 02, 2016
Preamplifier	Agilent	83017A	MY39501309	Sep. 22, 2015	Sep. 21, 2016
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 10, 2015	Dec. 09, 2016
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Dec. 10, 2015	Dec. 09, 2016
LF cable 10M	EMCC	CFD400-E	CFD400-001	Dec. 10, 2015	Dec. 09, 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. 17, 2016	Feb. 16, 2017
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 27, 2015	Nov. 26, 2016
Power Meter	Anritsu	ML2495A	1241002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor	Anritsu	MA2411B	1207366	Sep. 21, 2015	Sep. 20, 2016
AC POWER SOURCE	APC	AFC-500W	F312060012	Oct. 26, 2015	Oct. 25, 2016
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 v01r02
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	±2.90 dB
Radiated emission ≤ 1GHz	±3.87 dB
Radiated emission > 1GHz	±5.60 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	23°C / 63%	Howard Huang
Radiated Emissions	03CH02-WS	21-23°C / 64-68%	Felix Sung Anderson Hung
RF Conducted	TH01-WS	22°C / 64%	Alex Huang

- FCC site registration No.: 181692
- IC site registration No.: 10807A-2

2.2 The Worst Test Modes and Channel Details

Non-beamforming mode

For Frequency band 5250-5350 MHz, 5470-5725 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
Conducted Emissions	VHT40	5550	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5550	MCS 0	---
RF Output Power	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	---
	HT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	HT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	6 Mbps	---
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	---

Beamforming mode

For Frequency band 5250-5350 MHz, 5470-5725 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
Conducted Emissions	VHT40	5550	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5550	MCS 0	---
RF Output Power	HT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	---
	HT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	VHT20	5260 / 5300 / 5320 5500 / 5580 / 5700 / 5720	MCS 0	---
	VHT40	5270 / 5310 5510 / 5550 / 5670 / 5710	MCS 0	
	VHT80	5290 / 5530 / 5690	MCS 0	

3 Transmitter Test Results

3.1 Conducted Emissions

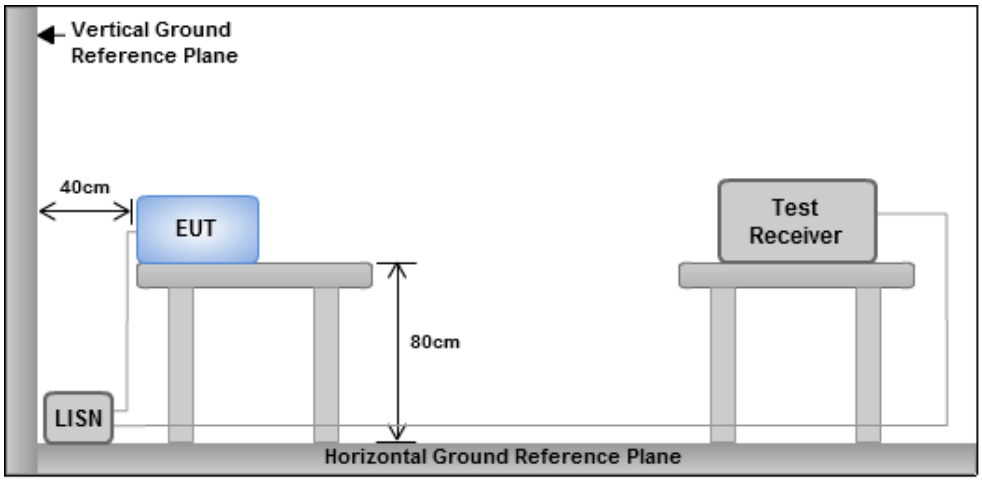
3.1.1 Limit of Conducted Emissions

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

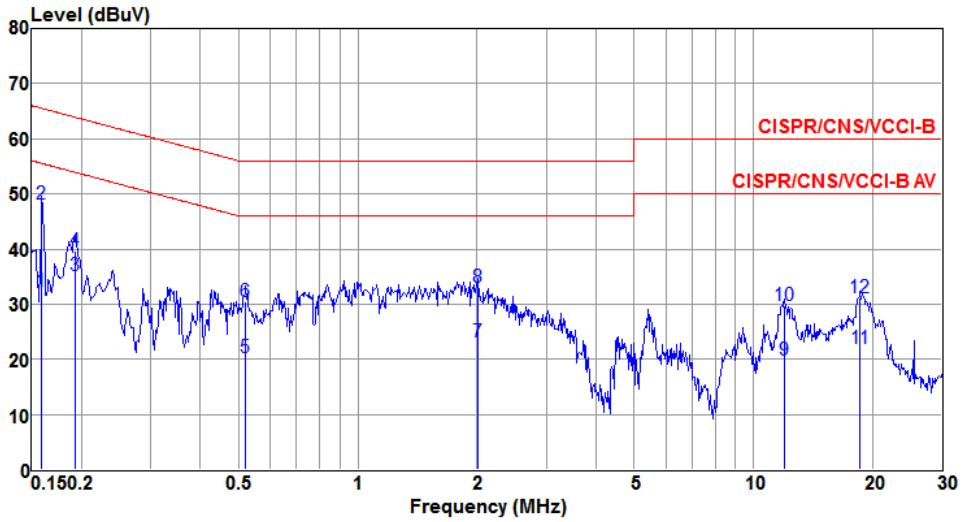


Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Non-beamforming mode

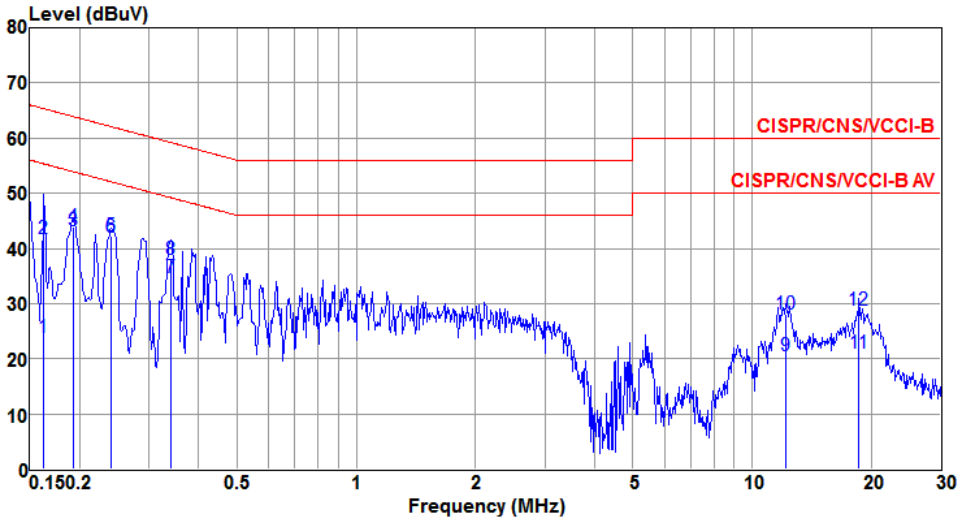
Modulation	VHT40	**Test Freq. (MHz)**	5550
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	32.30	55.52	-23.22	32.17	0.11	0.02	Average
2@	0.159	48.04	65.52	-17.48	47.91	0.11	0.02	QP
3	0.192	35.20	53.93	-18.73	35.07	0.11	0.02	Average
4	0.192	39.58	63.93	-24.35	39.45	0.11	0.02	QP
5	0.521	20.24	46.00	-25.76	20.07	0.13	0.04	Average
6	0.521	30.47	56.00	-25.53	30.30	0.13	0.04	QP
7	2.012	23.09	46.00	-22.91	22.85	0.16	0.08	Average
8	2.012	33.09	56.00	-22.91	32.85	0.16	0.08	QP
9	11.996	19.74	50.00	-30.26	19.29	0.27	0.18	Average
10	11.996	29.71	60.00	-30.29	29.26	0.27	0.18	QP
11	18.622	21.91	50.00	-28.09	21.37	0.36	0.18	Average
12	18.622	31.06	60.00	-28.94	30.52	0.36	0.18	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)	5550
Power Phase	Neutral		

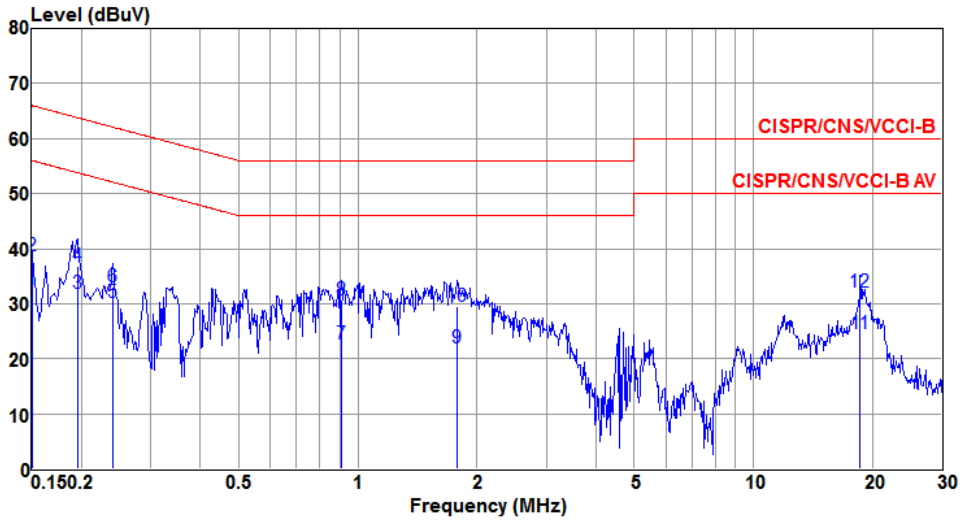


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.162	23.86	55.34	-31.48	23.72	0.12	0.02	Average
2	0.162	41.87	65.34	-23.47	41.73	0.12	0.02	QP
3	0.192	43.12	53.93	-10.81	43.00	0.10	0.02	Average
4	0.192	44.01	63.93	-19.92	43.89	0.10	0.02	QP
5@	0.240	42.16	52.08	-9.92	42.03	0.11	0.02	Average
6	0.240	42.11	62.08	-19.97	41.98	0.11	0.02	QP
7	0.339	34.72	49.22	-14.50	34.56	0.13	0.03	Average
8	0.339	38.03	59.22	-21.19	37.87	0.13	0.03	QP
9	12.124	20.50	50.00	-29.50	20.01	0.31	0.18	Average
10	12.124	28.15	60.00	-31.85	27.66	0.31	0.18	QP
11	18.622	20.99	50.00	-29.01	20.42	0.39	0.18	Average
12	18.622	28.71	60.00	-31.29	28.14	0.39	0.18	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

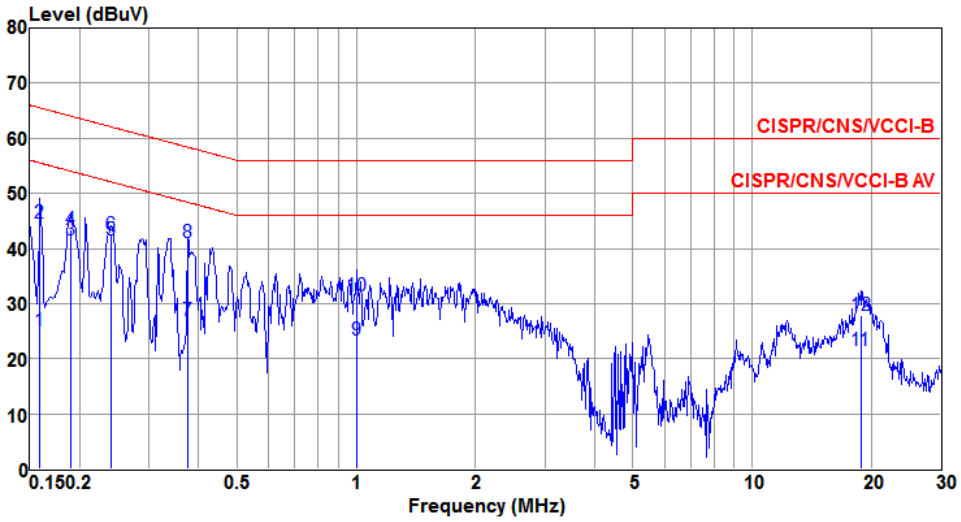
Modulation	VHT40	**Test Freq. (MHz)**	5550
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	32.48	56.00	-23.52	32.35	0.11	0.02	Average
2	0.150	38.79	66.00	-27.21	38.66	0.11	0.02	QP
3	0.195	31.90	53.80	-21.90	31.77	0.11	0.02	Average
4	0.195	36.91	63.80	-26.89	36.78	0.11	0.02	QP
5@	0.240	30.23	52.08	-21.85	30.09	0.12	0.02	Average
6	0.240	33.03	62.08	-29.05	32.89	0.12	0.02	QP
7	0.909	22.78	46.00	-23.22	22.59	0.13	0.06	Average
8	0.909	30.72	56.00	-25.28	30.53	0.13	0.06	QP
9	1.781	21.84	46.00	-24.16	21.60	0.16	0.08	Average
10	1.781	29.45	56.00	-26.55	29.21	0.16	0.08	QP
11	18.622	24.49	50.00	-25.51	23.95	0.36	0.18	Average
12	18.622	32.10	60.00	-27.90	31.56	0.36	0.18	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)	5550
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	24.98	55.52	-30.54	24.84	0.12	0.02	Average
2	0.159	44.65	65.52	-20.87	44.51	0.12	0.02	QP
3	0.189	41.57	54.06	-12.49	41.44	0.11	0.02	Average
4	0.189	43.34	64.06	-20.72	43.21	0.11	0.02	QP
5@	0.240	41.50	52.08	-10.58	41.37	0.11	0.02	Average
6	0.240	42.49	62.08	-19.59	42.36	0.11	0.02	QP
7	0.375	26.89	48.39	-21.50	26.72	0.14	0.03	Average
8	0.375	40.97	58.39	-17.42	40.80	0.14	0.03	QP
9	1.000	23.44	46.00	-22.56	23.25	0.13	0.06	Average
10	1.000	31.50	56.00	-24.50	31.31	0.13	0.06	QP
11	18.820	21.42	50.00	-28.58	20.85	0.39	0.18	Average
12	18.820	27.76	60.00	-32.24	27.19	0.39	0.18	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 Test Procedures

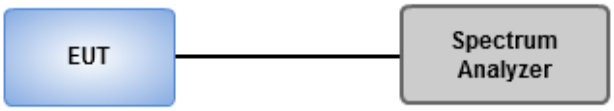
26dB Bandwidth

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

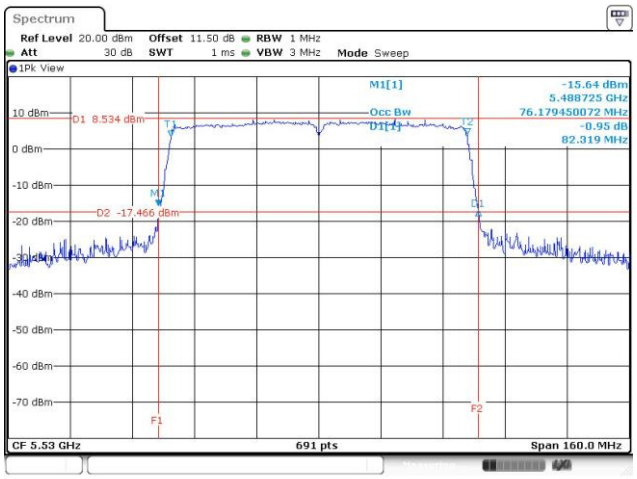
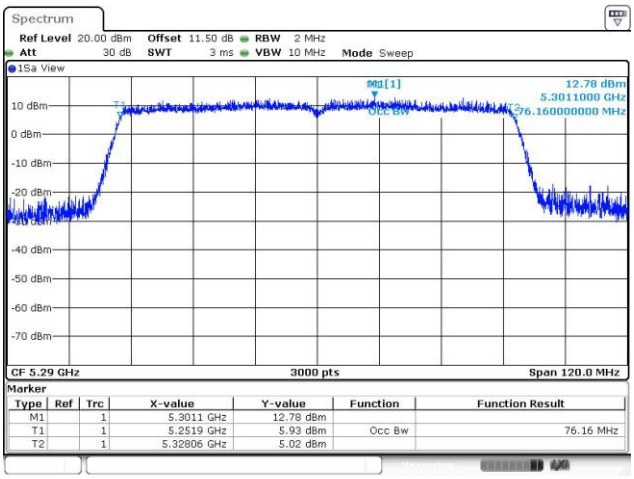
3.2.2 Test Setup



3.2.3 Test Result of Emission Bandwidth

Non-beamforming mode

Emission Bandwidth									
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)			99% Bandwidth (MHz)			Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2	
11a	2	5260	23.07	29.68	---	16.99	17.21	---	24.00
11a	2	5300	23.25	29.89	---	17.05	17.25	---	24.00
11a	2	5320	23.13	29.22	---	17.03	17.26	---	24.00
VHT20	2	5260	23.94	28.06	---	18.07	18.25	---	24.00
VHT20	2	5300	25.68	29.16	---	18.06	18.29	---	24.00
VHT20	2	5320	24.17	26.84	---	18.00	18.20	---	24.00
VHT40	2	5270	41.30	42.00	---	36.88	37.10	---	24.00
VHT40	2	5310	41.51	43.48	---	36.62	36.66	---	24.00
VHT80	2	5290	82.09	82.09	---	76.04	76.16	---	24.00
11a	2	5500	23.07	22.03	---	17.00	17.05	---	24.00
11a	2	5580	27.19	27.54	---	17.11	17.32	---	24.00
11a	2	5700	21.51	21.68	---	16.94	17.05	---	24.00
VHT20	2	5500	24.58	24.99	---	18.01	18.16	---	24.00
VHT20	2	5580	25.68	29.28	---	18.08	18.26	---	24.00
VHT20	2	5700	21.68	22.03	---	17.96	18.23	---	24.00
VHT40	2	5510	40.93	41.16	---	36.60	36.76	---	24.00
VHT40	2	5550	41.29	44.78	---	36.88	37.16	---	24.00
VHT40	2	5670	43.15	47.86	---	36.66	36.78	---	24.00
VHT80	2	5530	81.86	82.32	---	76.04	76.12	---	24.00

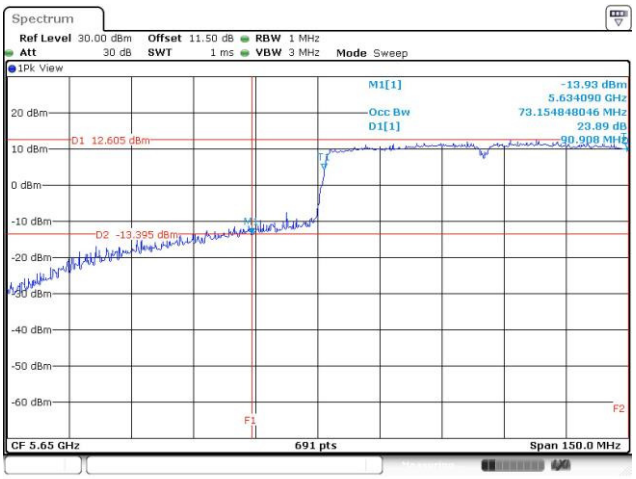
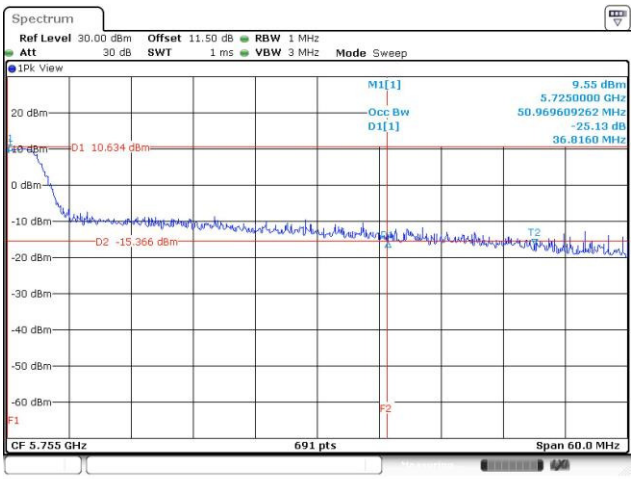
Worst Plot of 26dB Bandwidth	Worst Plot of 99% Bandwidth
	

Channel that extends across the 5.725 GHz boundary

UNII Emission Bandwidth Result (Within 5470-5725MHz band)									
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)			99% Bandwidth (MHz)			Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2	
11a	2	5720	16.26	16.20	---	13.57	13.73	---	23.10
VHT20	2	5720	16.94	16.76	---	14.14	14.28	---	23.24
VHT40	2	5710	35.92	43.53	---	33.53	33.77	---	24.00
VHT80	2	5690	76.76	90.91	---	73.22	73.50	---	24.00

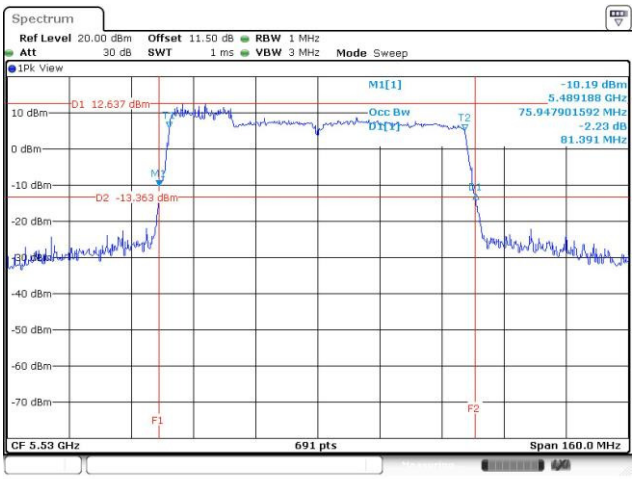
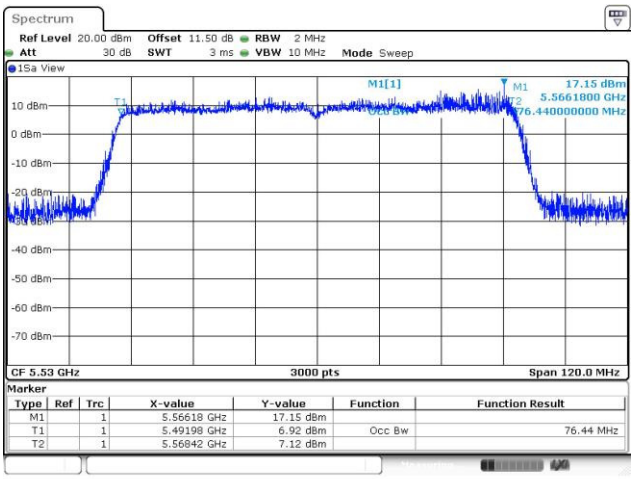
UNII Emission Bandwidth Result (Extends across 5725MHz band)								
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)			99% Bandwidth (MHz)		
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2
11a	2	5720	6.37	7.65	---	3.59	3.63	---
VHT20	2	5720	6.99	8.22	---	4.02	4.19	---
VHT40	2	5710	13.64	19.96	---	3.45	3.75	---
VHT80	2	5690	20.28	36.82	---	3.30	3.66	---

Worst Plots

Within 5470-5725MHz band	Extends across 5725MHz band
	

Beamforming mode

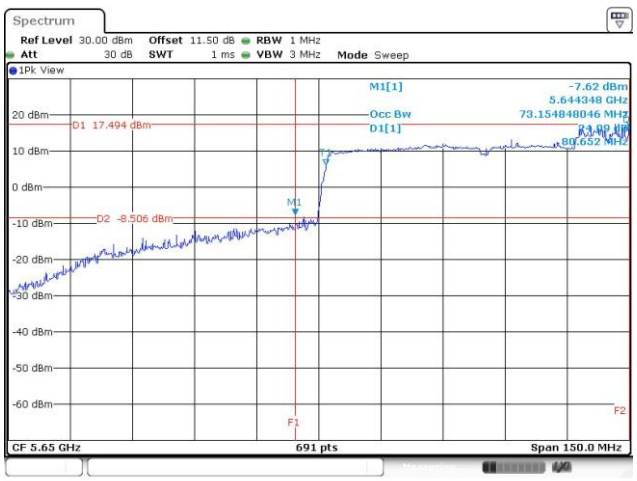
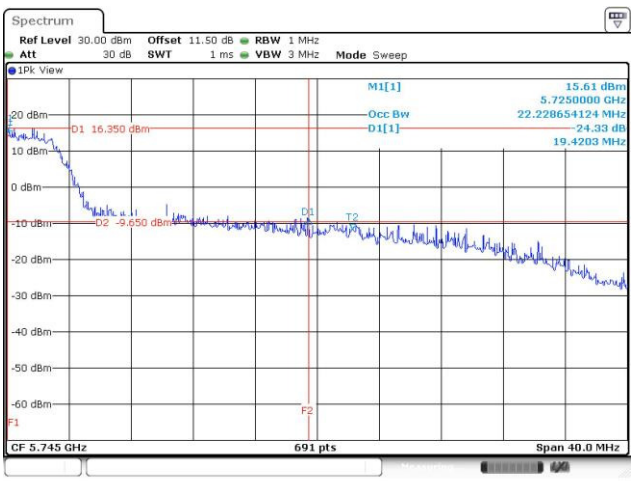
Emission Bandwidth									
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)			99% Bandwidth (MHz)			Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2	
VHT20	2	5260	24.81	27.48	---	17.97	18.26	---	24.00
VHT20	2	5300	26.03	29.97	---	17.99	18.22	---	24.00
VHT20	2	5320	23.42	27.25	---	18.00	18.32	---	24.00
VHT40	2	5270	45.33	48.46	---	36.78	37.00	---	24.00
VHT40	2	5310	40.81	40.93	---	36.54	36.62	---	24.00
VHT80	2	5290	80.00	80.23	---	75.88	75.84	---	24.00
VHT20	2	5500	23.07	26.14	---	17.94	18.17	---	24.00
VHT20	2	5580	23.25	24.58	---	17.94	18.11	---	24.00
VHT20	2	5700	21.68	21.91	---	17.90	18.10	---	24.00
VHT40	2	5510	40.58	41.04	---	36.58	36.56	---	24.00
VHT40	2	5550	40.93	43.15	---	36.72	37.04	---	24.00
VHT40	2	5670	41.04	45.33	---	36.58	36.64	---	24.00
VHT80	2	5530	80.93	81.39	---	75.96	76.44	---	24.00

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

Channel that extends across the 5.725 GHz boundary

UNII Emission Bandwidth Result (Within 5470-5725MHz band)									
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)			99% Bandwidth (MHz)			Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2	
VHT20	2	5720	16.45	19.03	---	14.06	14.15	---	23.16
VHT40	2	5710	43.62	43.83	---	33.45	33.55	---	24.00
VHT80	2	5690	75.44	80.65	---	73.10	73.22	---	24.00

UNII Emission Bandwidth Result (Extends across 5725MHz band)								
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)			99% Bandwidth (MHz)		
			Chain 0	Chain 1	Chain 2	Chain 0	Chain 1	Chain 2
VHT20	2	5720	8.72	9.78	---	3.90	4.02	---
VHT40	2	5710	19.25	19.42	---	3.57	3.57	---
VHT80	2	5690	10.70	16.00	---	3.46	3.62	---

Worst Plots	
Within 5470-5725MHz band	Extends across 5725MHz band
	

3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	250mW or 11dBm+10 log B
☒	5470 ~ 5725	250mW or 11dBm+10 log B
Note: “B” is the 26dB emission bandwidth in MHz.		

3.3.2 Test Procedures

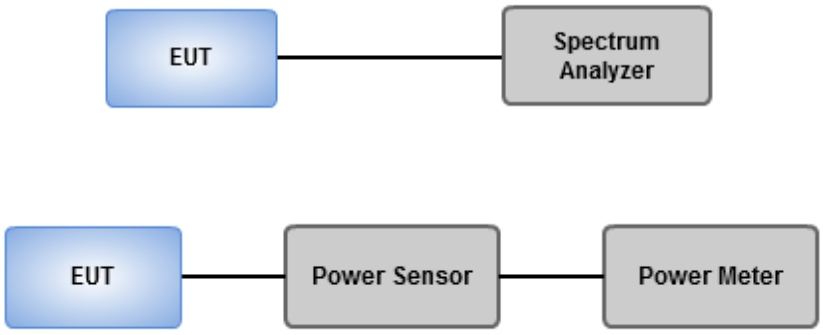
☒ Power meter (For channel that does not extends across the 5.725 GHz boundary)

☒ 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

☒ Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW=1MHz, VBW=3MHz , Sweep time= Auto, Detector = RMS
2. Trace average at least 100 traces in power averaging mode
3. Compute power by integrating the spectrum across the 26 dB EBW
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%)

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

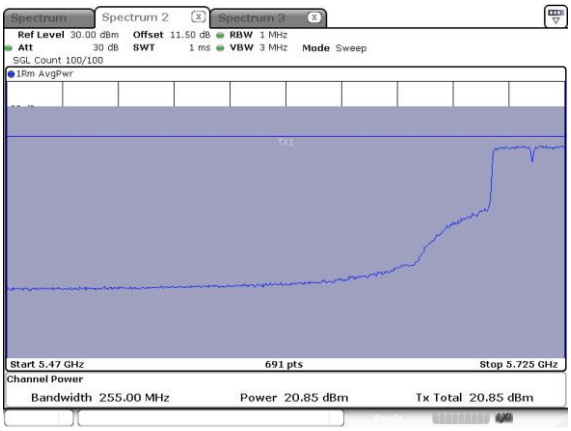
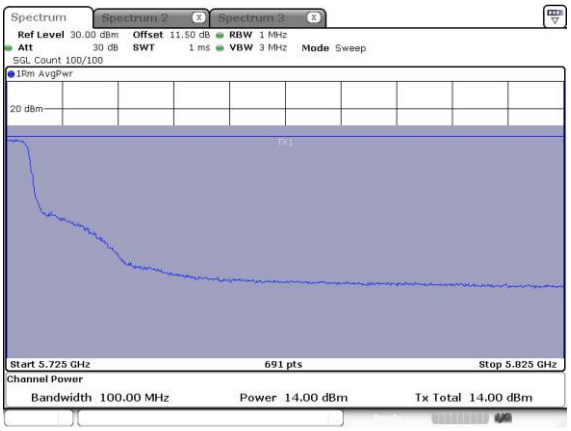
Non-beamforming mode

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	2	5260	20.02	20.29	---	---	207.367	23.17	24.00
11a	2	5300	20.07	20.39	---	---	211.021	23.24	24.00
11a	2	5320	20.09	20.34	---	---	210.237	23.23	24.00
HT20	2	5260	20.02	20.18	---	---	204.693	23.11	24.00
HT20	2	5300	19.98	20.31	---	---	206.939	23.16	24.00
HT20	2	5320	18.98	19.41	---	---	166.365	22.21	24.00
HT40	2	5270	20.41	21.25	---	---	243.253	23.86	24.00
HT40	2	5310	17.58	17.77	---	---	117.121	20.69	24.00
VHT20	2	5260	20.04	20.21	---	---	205.880	23.14	24.00
VHT20	2	5300	20.02	20.36	---	---	209.104	23.20	24.00
VHT20	2	5320	19	19.46	---	---	167.741	22.25	24.00
VHT40	2	5270	20.46	21.28	---	---	245.450	**23.90**	24.00
VHT40	2	5310	17.62	17.82	---	---	118.344	20.73	24.00
VHT80	2	5290	16.58	17.08	---	---	96.549	19.85	24.00
11a	2	5500	19.61	19.59	---	---	182.403	22.61	24.00
11a	2	5580	19.98	20.16	---	---	203.293	23.08	24.00
11a	2	5700	17.80	17.70	---	---	119.140	20.76	24.00
HT20	2	5500	18.91	19.25	---	---	161.943	22.09	24.00
HT20	2	5580	20.01	20.01	---	---	200.461	23.02	24.00
HT20	2	5700	16.97	17.15	---	---	101.654	20.07	24.00
HT40	2	5510	16.31	17.39	---	---	97.584	19.89	24.00
HT40	2	5550	20.55	21.20	---	---	245.327	23.90	24.00
HT40	2	5670	18.63	19.58	---	---	163.728	22.14	24.00
VHT20	2	5500	18.95	19.30	---	---	163.637	22.14	24.00
VHT20	2	5580	20.06	20.07	---	---	203.016	23.08	24.00
VHT20	2	5700	17.01	17.20	---	---	102.715	20.12	24.00
VHT40	2	5510	16.36	17.42	---	---	98.459	19.93	24.00
VHT40	2	5550	20.58	21.24	---	---	247.333	**23.93**	24.00
VHT40	2	5670	18.68	19.62	---	---	165.412	22.19	24.00
VHT80	2	5530	16.01	16.51	---	---	84.674	19.28	24.00

Channel that extends across the 5.725 GHz boundary

Maximum Conducted Output Power (Within 5470-5725MHz band)											
Mode	N_{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
11a	2	5720	19.33	19.22	---	---	22.29	0.00	169.264	22.29	23.10
HT20	2	5720	19.42	19.46	---	---	22.45	0.00	175.806	22.45	23.24
HT40	2	5710	20.85	20.03	---	---	23.47	0.00	222.312	23.47	24.00
VHT20	2	5720	19.49	19.37	---	---	22.44	0.00	175.417	22.44	23.24
VHT40	2	5710	20.81	20.20	---	---	23.53	0.00	225.216	23.53	24.00
VHT80	2	5690	20.45	19.85	---	---	23.17	0.00	207.523	23.17	24.00

Maximum Conducted Output Power (Extends across 5725MHz band)											
Mode	N_{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
11a	2	5720	13.19	13.24	---	---	16.23	0.00	41.931	16.23	30.00
HT20	2	5720	13.97	13.82	---	---	16.91	0.00	49.045	16.91	30.00
HT40	2	5710	10.69	9.96	---	---	13.35	0.00	21.630	13.35	30.00
VHT20	2	5720	13.94	14.00	---	---	16.98	0.00	49.893	16.98	30.00
VHT40	2	5710	10.90	9.95	---	---	13.46	0.00	22.188	13.46	30.00
VHT80	2	5690	6.61	6.18	---	---	9.41	0.00	8.731	9.41	30.00

Worst Channel Power Plots	
Within 5470-5725MHz band	Extends across 5725MHz band
	

Beamforming mode

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	5260	19.94	20.34	---	---	206.771	23.15	23.94
HT20	2	5300	20.01	20.41	---	---	210.131	23.22	23.94
HT20	2	5320	18.87	19.43	---	---	164.790	22.17	23.94
HT40	2	5270	20.22	20.79	---	---	225.146	23.52	23.94
HT40	2	5310	17.16	17.08	---	---	103.050	20.13	23.94
VHT20	2	5260	19.98	20.39	---	---	208.936	23.20	23.94
VHT20	2	5300	20.03	20.45	---	---	211.611	23.26	23.94
VHT20	2	5320	18.91	19.46	---	---	166.112	22.20	23.94
VHT40	2	5270	20.25	20.82	---	---	226.707	**23.55**	23.94
VHT40	2	5310	17.22	17.15	---	---	104.603	20.20	23.94
VHT80	2	5290	17.07	17.04	---	---	101.516	20.07	23.94
HT20	2	5500	19.11	19.08	---	---	162.380	22.11	23.62
HT20	2	5580	19.16	19.19	---	---	165.399	22.19	23.62
HT20	2	5700	17.05	16.85	---	---	99.116	19.96	23.62
HT40	2	5510	16.50	17.40	---	---	99.622	19.98	23.62
HT40	2	5550	20.15	20.74	---	---	222.091	23.47	23.62
HT40	2	5670	17.61	18.15	---	---	122.990	20.90	23.62
VHT20	2	5500	19.17	19.13	---	---	164.450	22.16	23.62
VHT20	2	5580	19.21	19.24	---	---	167.314	22.24	23.62
VHT20	2	5700	17.12	16.90	---	---	100.501	20.02	23.62
HT40	2	5510	16.54	17.45	---	---	100.672	20.03	23.62
VHT40	2	5550	20.2	20.8	---	---	224.939	**23.52**	23.62
VHT40	2	5670	17.68	18.22	---	---	124.988	20.97	23.62
VHT80	2	5530	16.12	16.56	---	---	86.216	19.36	23.62

Note:

1. For 5250 ~ 5350 MHz band
   Directional gain = $10 * \log((10^{2.87/20}+10^{3.23/20})^2/2)$ = 6.06 dBi > 6 dBi
   Limit shall be reduced to 24 dBm – (6.06 dBi – 6 dBi) = 23.94 dBm
   For 5470 ~ 5725MHz band
   Directional gain = $10 * \log((10^{3.2/20}+10^{3.54/20})^2/2)$ = 6.38 dBi > 6 dBi
   Limit shall be reduced to 24 dBm – (6.38 dBi – 6 dBi) = 23.62 dBm

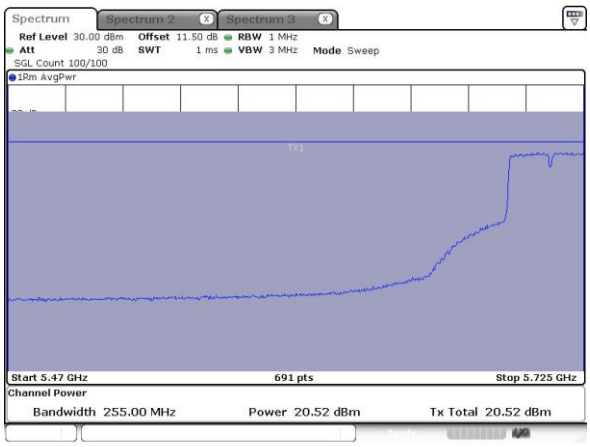
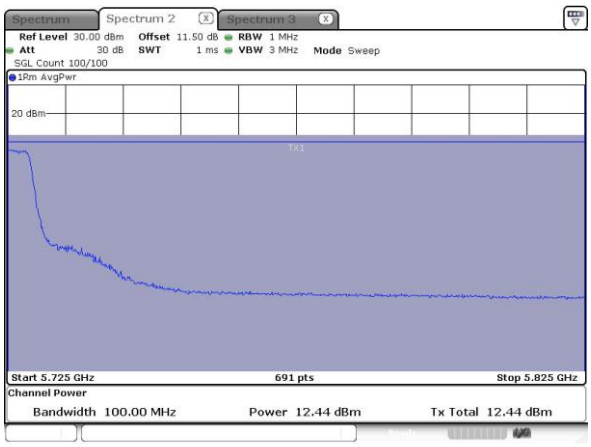
Channel that extends across the 5.725 GHz boundary

Maximum Conducted Output Power (Within 5470-5725MHz band)											
Mode	N_{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
HT20	2	5720	17.93	17.85	---	---	20.90	0.00	123.041	20.90	22.78
HT40	2	5710	20.36	19.78	---	---	23.09	0.00	203.703	23.09	23.62
VHT20	2	5720	18.08	17.86	---	---	20.98	0.00	125.363	20.98	22.78
VHT40	2	5710	20.52	19.59	---	---	23.09	0.00	203.711	23.09	23.62
VHT80	2	5690	20.29	19.43	---	---	22.89	0.00	194.606	22.89	23.62

Note: Directional gain = $10 * \log((10^{3.2/20}+10^{3.54/20})^2/2)$ = 6.38 dBi > 6 dBi, limit shall be reduced 0.38 dB (6.38dBi – 6dBi)

Maximum Conducted Output Power (Extends across 5725MHz band)											
Mode	N_{TX}	Freq. (MHz)	Conducted Power without duty factor					Duty factor (dB)	Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (dBm)				
HT20	2	5720	12.28	11.5	---	---	14.92	0.00	31.030	14.92	29.28
HT40	2	5710	10.41	9.46	---	---	12.97	0.00	19.821	12.97	29.28
VHT20	2	5720	12.44	12.42	---	---	15.44	0.00	34.997	15.44	29.28
VHT40	2	5710	10.47	9.64	---	---	13.09	0.00	20.347	13.09	29.28
VHT80	2	5690	6.11	5.95	---	---	9.04	0.00	8.019	9.04	29.28

Note: Directional gain = $10 * \log((10^{3.6/20}+10^{3.82/20})^2/2)$ = 6.72 dBi > 6 dBi, Limit shall be reduced to 30 dBm – (6.72 dBi – 6 dBi) = 29.28 dBm

Worst Channel Power Plots	
Within 5470-5725MHz band	Extends across 5725MHz band
	

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency Band (MHz)		Limit
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz

3.4.2 Test Procedures

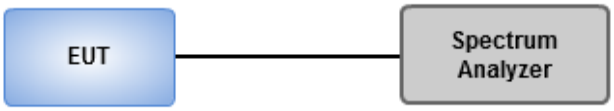
☒ Method SA-1

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

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 if duty cycle < 98%

3.4.3 Test Setup



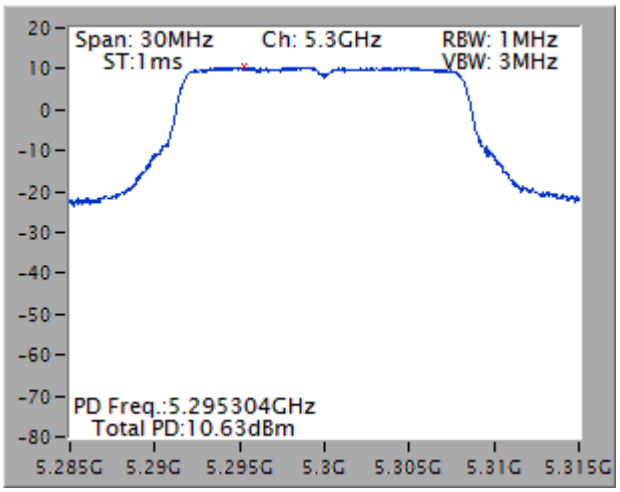
3.4.4 Test Result of Peak Power Spectral Density

Non-beamforming mode

Condition			Peak Power Spectral Density (dBm/MHz)			
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	2	5260	10.44	0.00	10.44	10.94
11a	2	5300	10.63	0.00	10.63	10.94
11a	2	5320	10.50	0.00	10.50	10.94
VHT20	2	5260	10.14	0.00	10.14	10.94
VHT20	2	5300	10.09	0.00	10.09	10.94
VHT20	2	5320	9.40	0.00	9.40	10.94
VHT40	2	5270	7.90	0.00	7.90	10.94
VHT40	2	5310	4.82	0.00	4.82	10.94
VHT80	2	5290	0.84	0.00	0.84	10.94
11a	2	5500	10.19	0.00	10.19	10.62
11a	2	5580	10.35	0.00	10.35	10.62
11a	2	5700	8.09	0.00	8.09	10.62
11a	2	5720	10.37	0.00	10.37	10.62
VHT20	2	5500	9.35	0.00	9.35	10.62
VHT20	2	5580	10.32	0.00	10.32	10.62
VHT20	2	5700	6.92	0.00	6.92	10.62
VHT20	2	5720	10.32	0.00	10.32	10.62
VHT40	2	5510	4.03	0.00	4.03	10.62
VHT40	2	5550	7.93	0.00	7.93	10.62
VHT40	2	5670	6.22	0.00	6.22	10.62
VHT40	2	5710	7.74	0.00	7.74	10.62
VHT80	2	5530	0.46	0.00	0.46	10.62
VHT80	2	5690	4.97	0.00	4.97	10.62

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 5250 ~ 5350 MHz band
   Directional gain = $10 * \log((10^{2.87/20}+10^{3.23/20})^2/2)$ = 6.06 dBi > 6 dBi
   Limit shall be reduced to 11 dBm – (6.06 dBi – 6 dBi) = 10.94 dBm.
   For 5470 ~ 5725MHz band
   Directional gain = $10 * \log((10^{3.2/20}+10^{3.54/20})^2/2)$ = 6.38 dBi > 6 dBi
   Limit shall be reduced to 11 dBm – (6.38 dBi – 6 dBi) = 10.62 dBm.

Worst Plots


Span: 30MHz
ST:1ms
Ch: 5.3GHz
RBW: 1MHz
VBW: 3MHz
PD Freq.:5.295304GHz
Total PD:10.63dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
5.285G
5.29G
5.295G
5.3G
5.305G
5.31G
5.315G

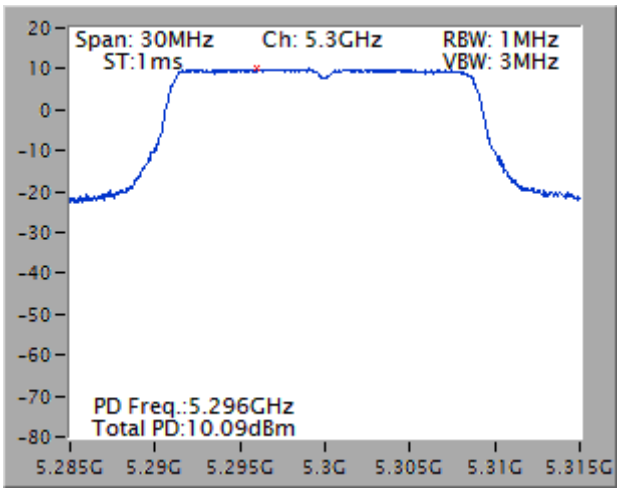
Beamforming mode

Condition			Peak Power Spectral Density (dBm/MHz)			
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	5260	10.08	0.00	10.08	10.94
VHT20	2	5300	10.09	0.00	10.09	10.94
VHT20	2	5320	9.05	0.00	9.05	10.94
VHT40	2	5270	7.37	0.00	7.37	10.94
VHT40	2	5310	3.70	0.00	3.70	10.94
VHT80	2	5290	0.94	0.00	0.94	10.94
VHT20	2	5500	8.99	0.00	8.99	10.62
VHT20	2	5580	9.08	0.00	9.08	10.62
VHT20	2	5700	7.02	0.00	7.02	10.62
VHT20	2	5720	9.15	0.00	9.15	10.62
VHT40	2	5510	3.74	0.00	3.74	10.62
VHT40	2	5550	7.44	0.00	7.44	10.62
VHT40	2	5670	4.64	0.00	4.64	10.62
VHT40	2	5710	7.64	0.00	7.64	10.62
VHT80	2	5530	0.34	0.00	0.34	10.62
VHT80	2	5690	4.33	0.00	4.33	10.62

Note:

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 5250 ~ 5350 MHz band
   Directional gain = $10 * \log((10^{2.87/20}+10^{3.23/20})^2/2)$ = 6.06 dBi > 6 dBi
   Limit shall be reduced to 11 dBm – (6.06 dBi – 6 dBi) = 10.94 dBm.
   For 5470 ~ 5725MHz band
   Directional gain = $10 * \log((10^{3.2/20}+10^{3.54/20})^2/2)$ = 6.38 dBi > 6 dBi
   Limit shall be reduced to 11 dBm – (6.38 dBi – 6 dBi) = 10.62 dBm.

Worst Plots


Span: 30MHz
Ch: 5.3GHz
RBW: 1MHz
ST:1ms
VBW: 3MHz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
PD Freq.:5.296GHz
Total PD:10.09dBm
5.285G
5.29G
5.295G
5.3G
5.305G
5.31G
5.315G

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**
5.25 - 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]

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

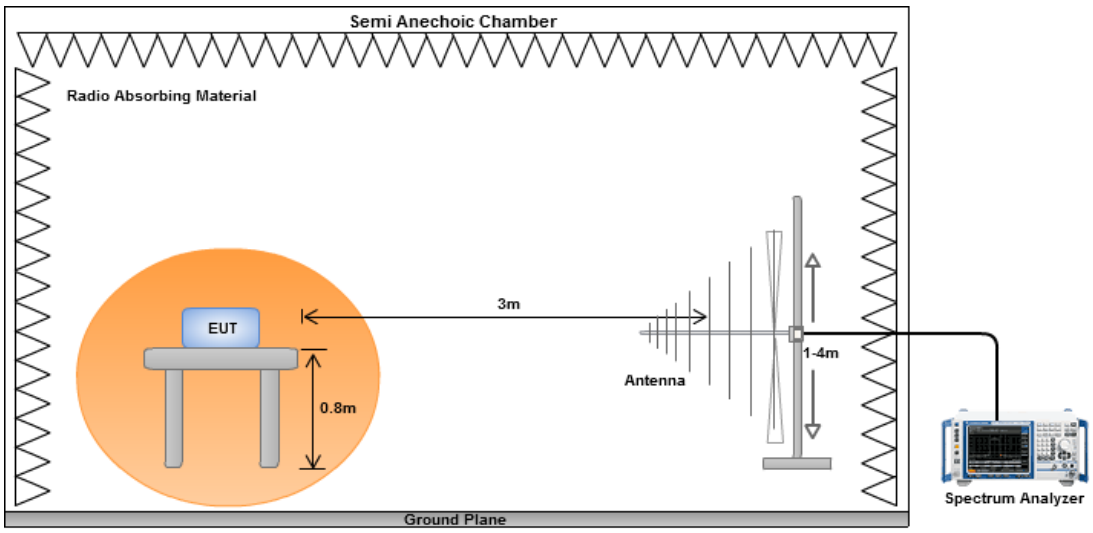
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

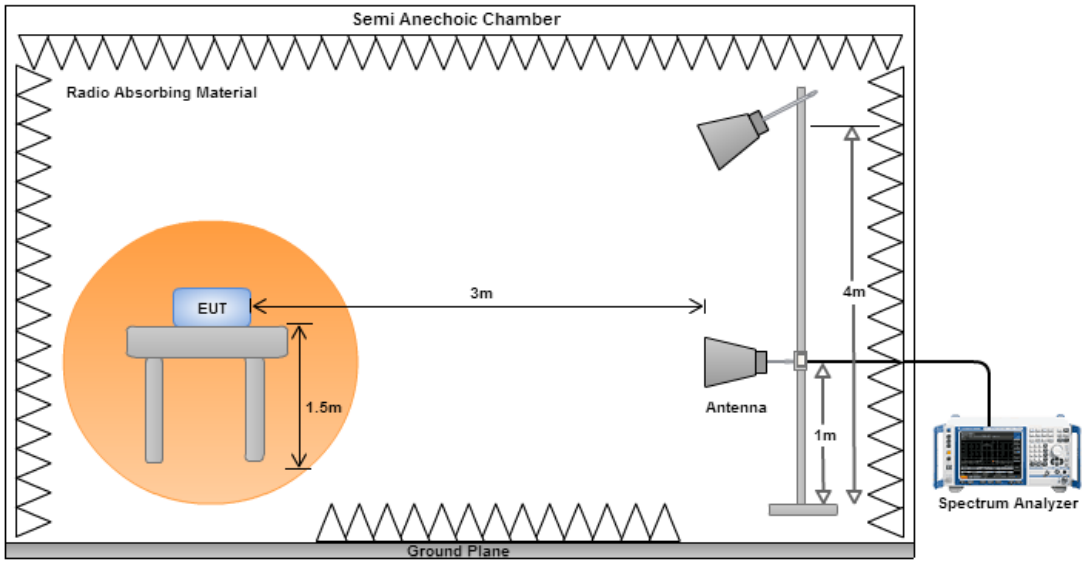
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



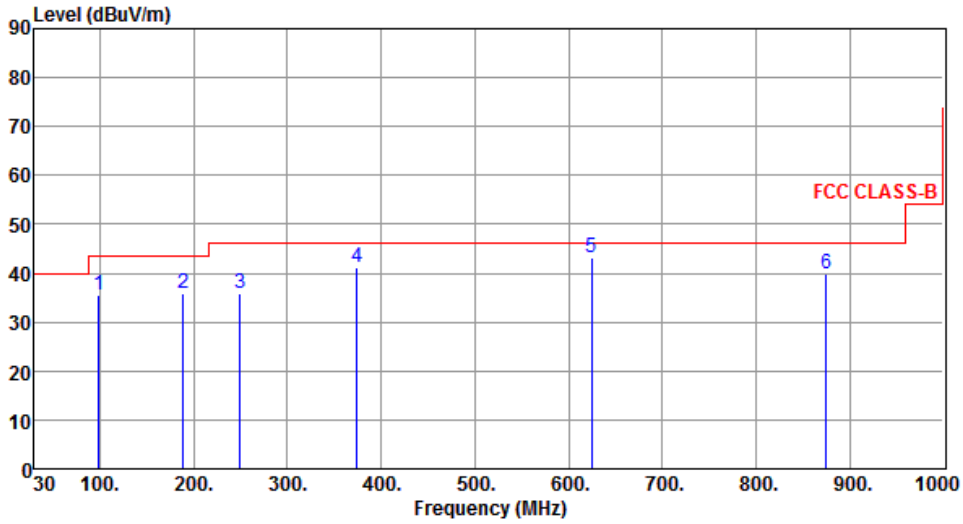
Radiated Emissions above 1 GHz



Non- beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

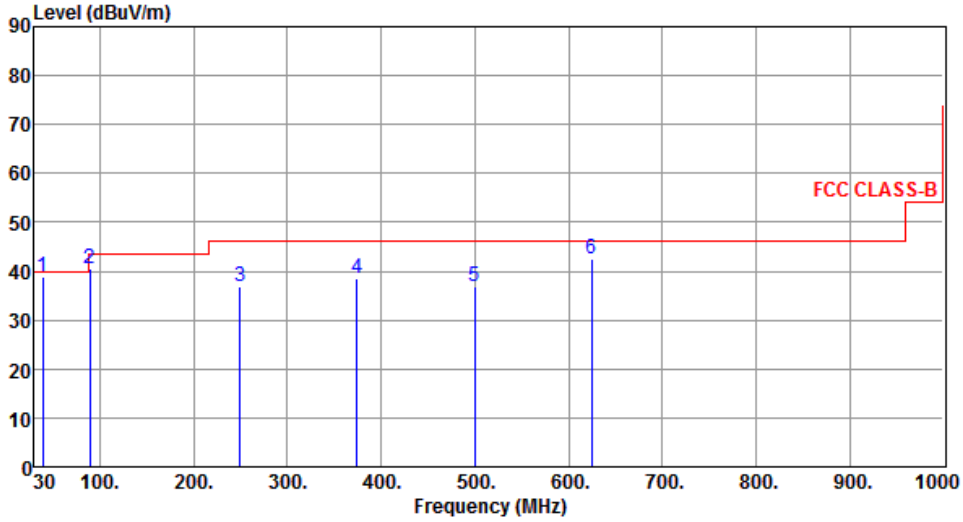
Modulation	VHT40	**Test Freq. (MHz)**	5550
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	98.87	35.63	43.50	-7.87	52.44	-16.81	Peak	---	---
2	189.08	35.94	43.50	-7.56	50.23	-14.29	Peak	---	---
3	249.22	35.84	46.00	-10.16	48.63	-12.79	Peak	---	---
4	374.35	41.27	46.00	-4.73	50.63	-9.36	Peak	---	---
5	624.61	43.24	46.00	-2.76	47.53	-4.29	QP	123	234
6	874.87	39.95	46.00	-6.05	40.87	-0.92	Peak	---	---

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

Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Vertical		

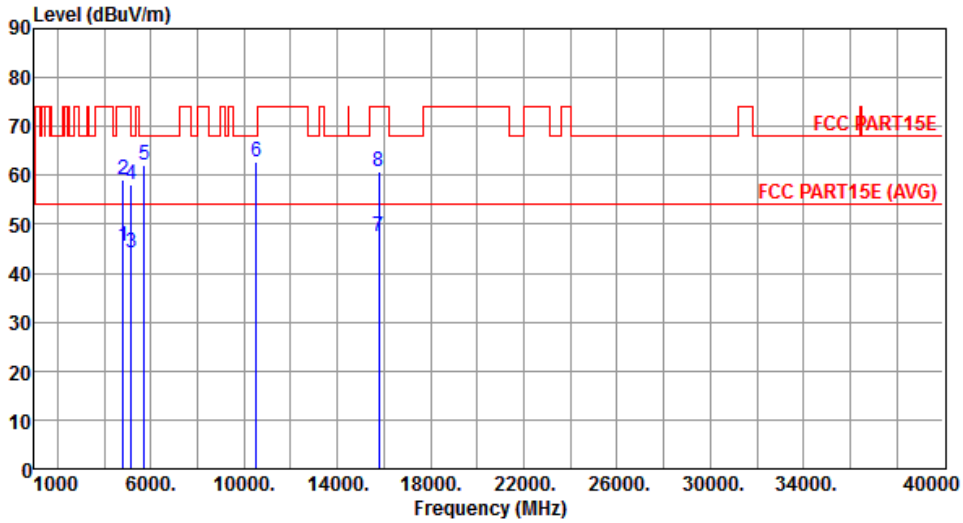


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	38.73	38.90	40.00	-1.10	50.88	-11.98	QP	100	152
2	89.17	40.63	43.50	-2.87	58.56	-17.93	Peak	---	---
3	249.22	36.80	46.00	-9.20	49.59	-12.79	Peak	---	---
4	374.35	38.39	46.00	-7.61	47.75	-9.36	Peak	---	---
5	499.48	36.94	46.00	-9.06	43.46	-6.52	Peak	---	---
6	624.61	42.59	46.00	-3.41	46.88	-4.29	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

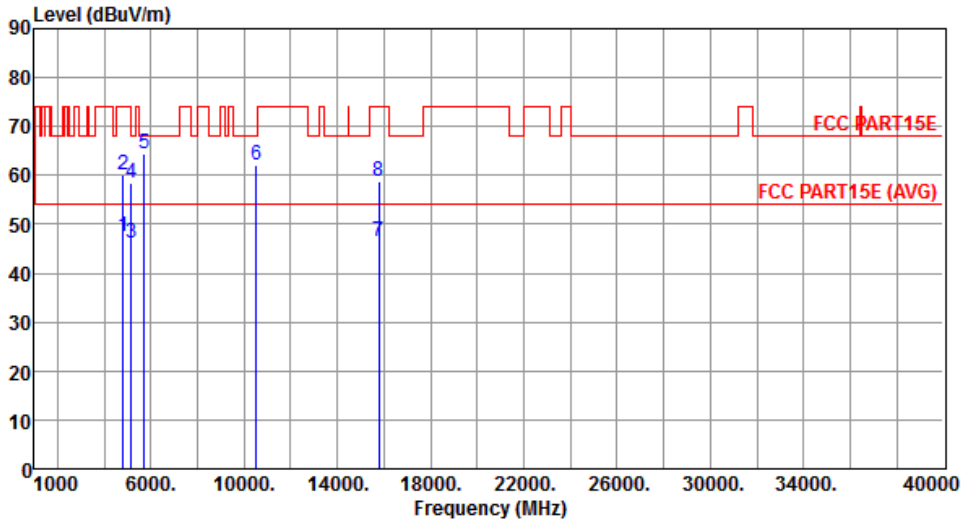
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4820.00	45.58	54.00	-8.42	41.32	4.26	Average	205	311
2	4820.00	58.99	74.00	-15.01	54.73	4.26	Peak	205	311
3	5150.00	44.33	54.00	-9.67	39.43	4.90	Average	233	39
4	5150.00	58.01	74.00	-15.99	53.11	4.90	Peak	233	39
5	5700.00	62.24	68.20	-5.96	56.58	5.66	Peak	177	164
6	10520.00	62.82	68.20	-5.38	48.87	13.95	Peak	253	29
7	15780.00	47.35	54.00	-6.65	32.09	15.26	Average	211	43
8	15780.00	60.75	74.00	-13.25	45.49	15.26	Peak	211	43

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

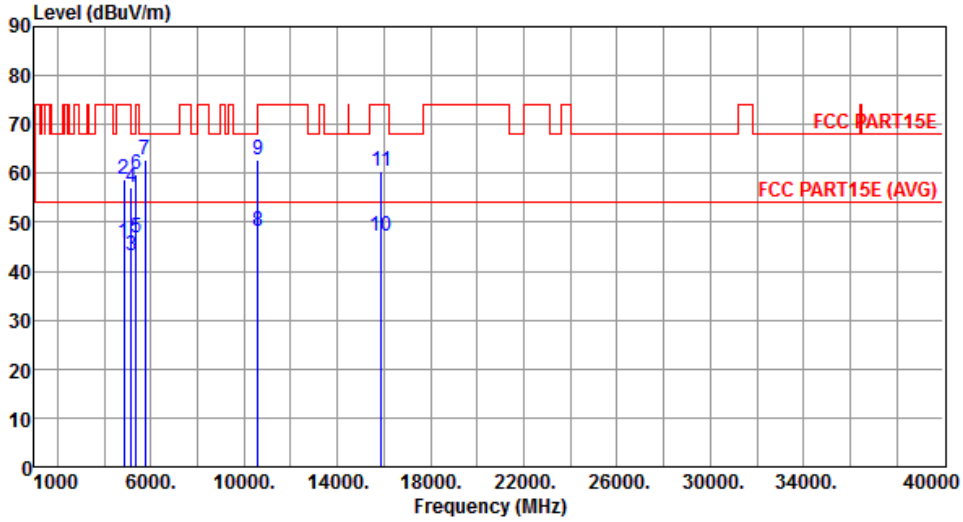
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4820.00	47.50	54.00	-6.50	43.24	4.26	Average	177	6
2	4820.00	60.16	74.00	-13.84	55.90	4.26	Peak	177	6
3	5150.00	46.15	54.00	-7.85	41.25	4.90	Average	218	271
4	5150.00	58.35	74.00	-15.65	53.45	4.90	Peak	218	271
5	5700.00	64.39	68.20	-3.81	58.73	5.66	Peak	269	358
6	10520.00	62.10	68.20	-6.10	48.15	13.95	Peak	295	11
7	15780.00	46.38	54.00	-7.62	31.12	15.26	Average	222	169
8	15780.00	58.94	74.00	-15.06	43.68	15.26	Peak	222	169

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

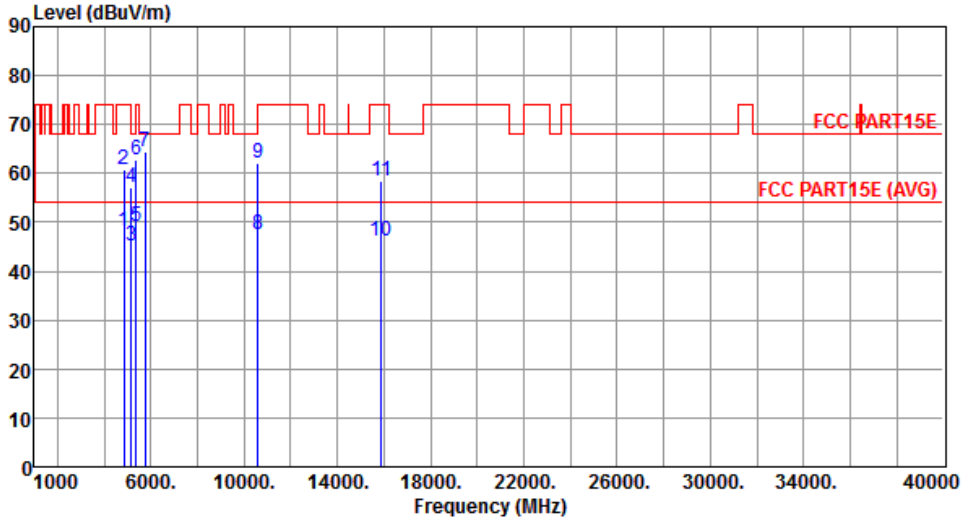
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4860.00	45.69	54.00	-8.31	41.34	4.35	Average	196	310
2	4860.00	58.85	74.00	-15.15	54.50	4.35	Peak	196	310
3	5150.00	43.20	54.00	-10.80	38.30	4.90	Average	220	38
4	5150.00	57.12	74.00	-16.88	52.22	4.90	Peak	220	38
5	5350.00	46.81	54.00	-7.19	41.68	5.13	Average	220	38
6	5350.00	59.75	74.00	-14.25	54.62	5.13	Peak	220	38
7	5740.00	62.84	68.20	-5.36	57.08	5.76	Peak	173	165
8	10600.00	48.15	54.00	-5.85	34.11	14.04	Average	243	22
9	10600.00	62.87	74.00	-11.13	48.83	14.04	Peak	243	22
10	15900.00	47.20	54.00	-6.80	32.16	15.04	Average	222	40
11	15900.00	60.36	74.00	-13.64	45.32	15.04	Peak	222	40

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

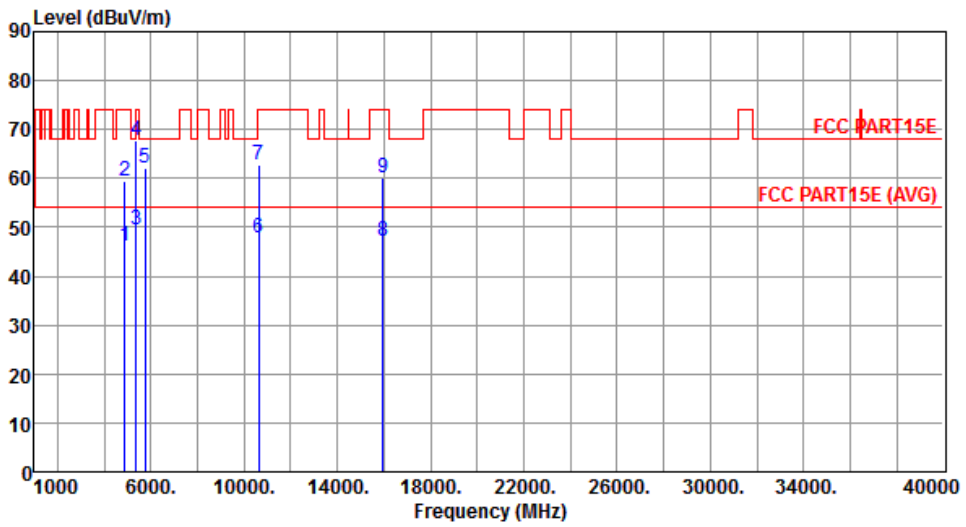
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4860.00	47.99	54.00	-6.01	43.64	4.35	Average	197	8
2	4860.00	60.89	74.00	-13.11	56.54	4.35	Peak	197	8
3	5150.00	45.01	54.00	-8.99	40.11	4.90	Average	222	268
4	5150.00	57.09	74.00	-16.91	52.19	4.90	Peak	222	268
5	5350.00	49.24	54.00	-4.76	44.11	5.13	Average	222	268
6	5350.00	62.81	74.00	-11.19	57.68	5.13	Peak	222	268
7	5740.00	64.36	68.20	-3.84	58.60	5.76	Peak	210	352
8	10600.00	47.52	54.00	-6.48	33.48	14.04	Average	294	8
9	10600.00	62.26	74.00	-11.74	48.22	14.04	Peak	294	8
10	15900.00	46.15	54.00	-7.85	31.11	15.04	Average	222	166
11	15900.00	58.59	74.00	-15.41	43.55	15.04	Peak	222	166

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

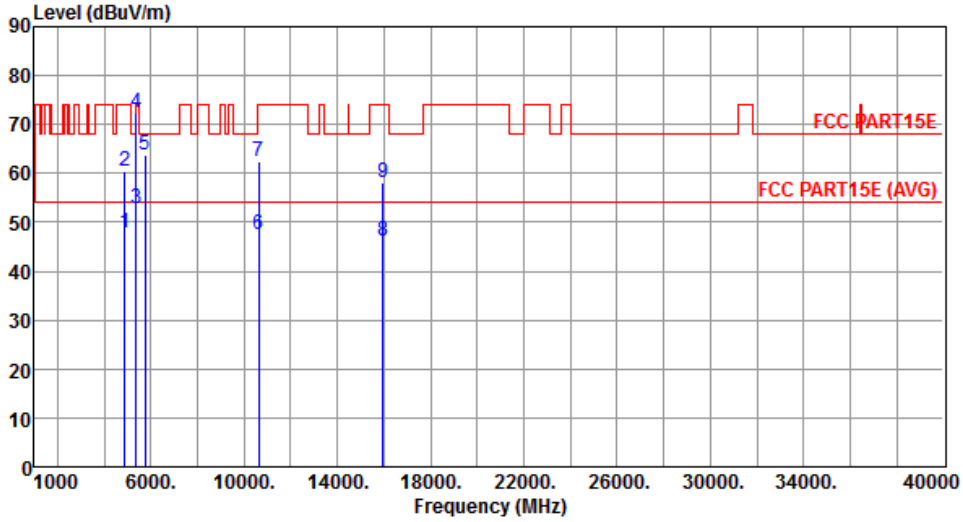
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4880.00	46.05	54.00	-7.95	41.64	4.41	Average	218	309
2	4880.00	59.31	74.00	-14.69	54.90	4.41	Peak	218	309
3	5350.00	49.57	54.00	-4.43	44.44	5.13	Average	207	37
4	5350.00	67.86	74.00	-6.14	62.73	5.13	Peak	207	37
5	5760.00	62.16	68.20	-6.04	56.37	5.79	Peak	190	166
6	10640.00	47.98	54.00	-6.02	33.89	14.09	Average	244	35
7	10640.00	62.83	74.00	-11.17	48.74	14.09	Peak	244	35
8	15960.00	47.11	54.00	-6.89	32.18	14.93	Average	222	39
9	15960.00	60.10	74.00	-13.90	45.17	14.93	Peak	222	39

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

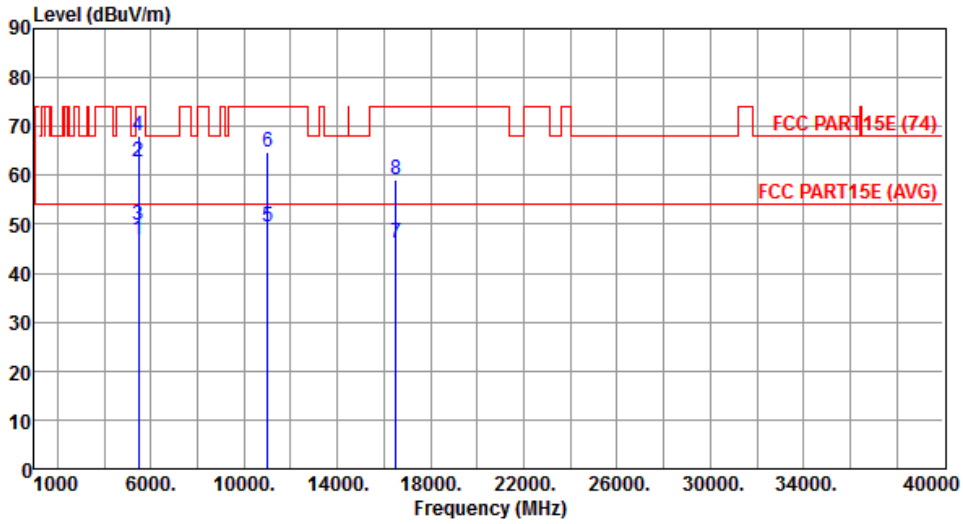
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4880.00	47.90	54.00	-6.10	43.49	4.41	Average	228	8
2	4880.00	60.56	74.00	-13.44	56.15	4.41	Peak	228	8
3	5350.00	52.92	54.00	-1.08	47.79	5.13	Average	183	270
4	5350.00	72.24	74.00	-1.76	67.11	5.13	Peak	183	270
5	5760.00	63.81	68.20	-4.39	58.02	5.79	Peak	217	3
6	10640.00	47.56	54.00	-6.44	33.47	14.09	Average	299	10
7	10640.00	62.44	74.00	-11.56	48.35	14.09	Peak	299	10
8	15960.00	46.07	54.00	-7.93	31.14	14.93	Average	222	156
9	15960.00	58.21	74.00	-15.79	43.28	14.93	Peak	222	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).

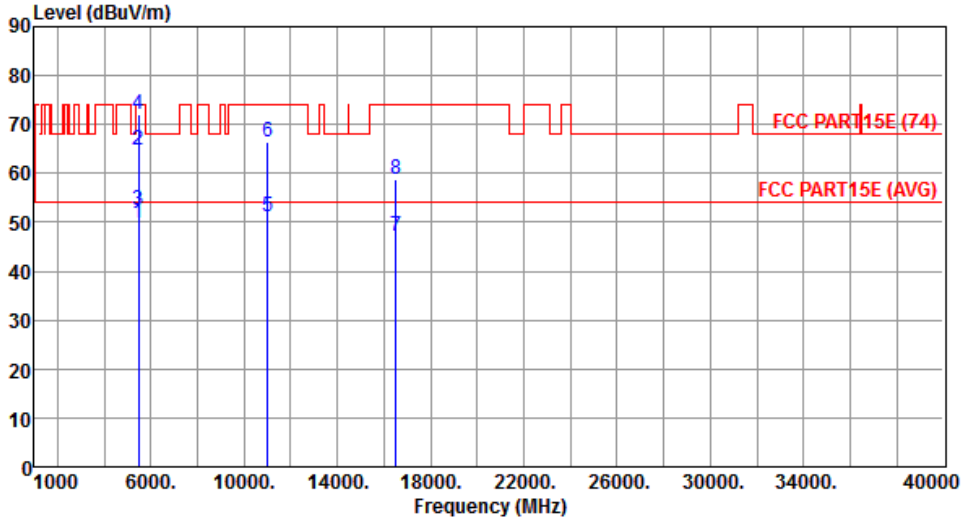
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.92	54.00	-7.08	41.66	5.26	Average	279	189
2	5460.00	62.63	74.00	-11.37	57.37	5.26	Peak	279	189
3	5470.00	49.72	54.00	-4.28	44.46	5.26	Average	279	189
4	5470.00	67.98	74.00	-6.02	62.72	5.26	Peak	279	189
5	11000.00	49.60	54.00	-4.40	35.11	14.49	Average	188	66
6	11000.00	64.66	74.00	-9.34	50.17	14.49	Peak	188	66
7	16500.00	46.29	54.00	-7.71	29.28	17.01	Average	223	211
8	16500.00	59.05	74.00	-14.95	42.04	17.01	Peak	223	211

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

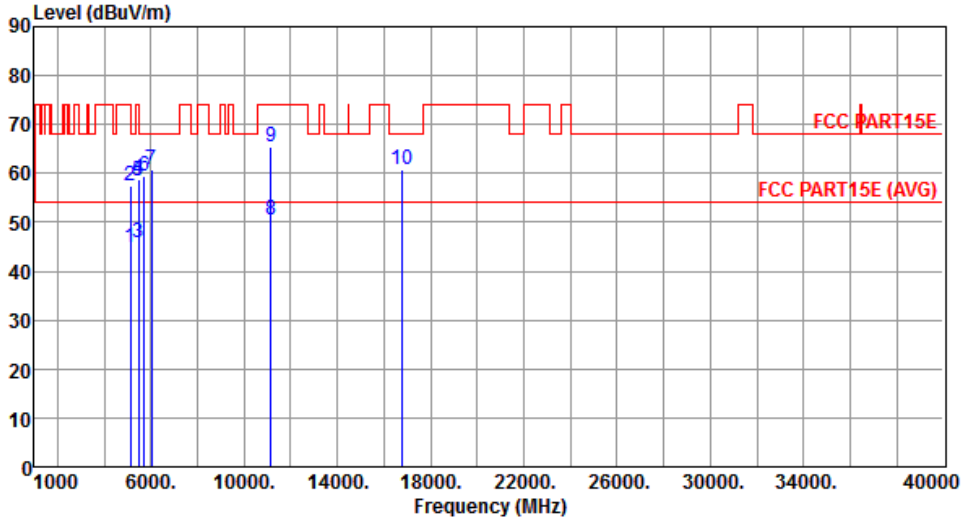
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.80	54.00	-4.20	44.54	5.26	Average	302	0
2	5460.00	64.74	74.00	-9.26	59.48	5.26	Peak	302	0
3	5470.00	52.63	54.00	-1.37	47.37	5.26	Average	302	0
4	5470.00	71.96	74.00	-2.04	66.70	5.26	Peak	302	0
5	11000.00	51.07	54.00	-2.93	36.58	14.49	Average	333	29
6	11000.00	66.27	74.00	-7.73	51.78	14.49	Peak	333	29
7	16500.00	47.06	54.00	-6.94	30.05	17.01	Average	211	183
8	16500.00	58.87	74.00	-15.13	41.86	17.01	Peak	211	183

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

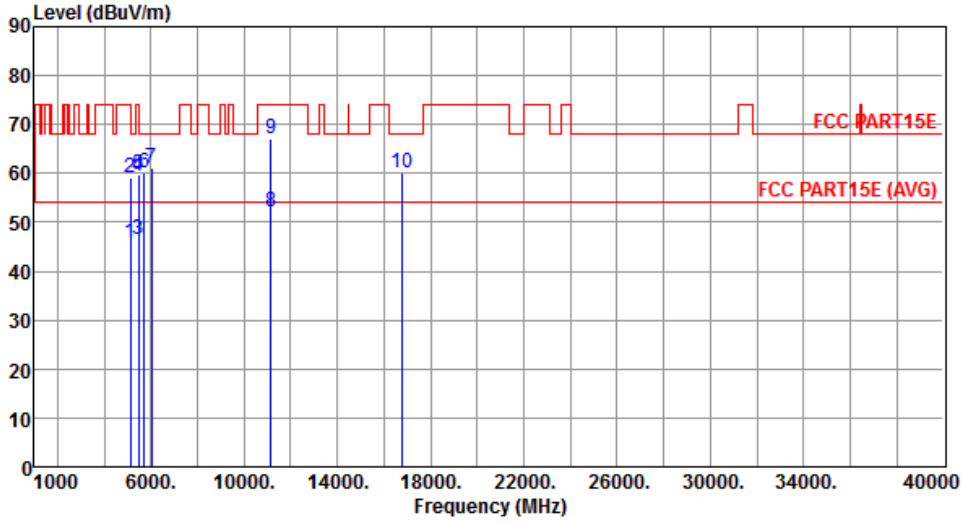
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5115.00	44.74	54.00	-9.26	39.88	4.86	Average	178	164
2	5115.00	57.41	74.00	-16.59	52.55	4.86	Peak	178	164
3	5460.00	45.76	54.00	-8.24	40.50	5.26	Average	178	164
4	5460.00	58.87	74.00	-15.13	53.61	5.26	Peak	178	164
5	5470.00	58.41	68.20	-9.79	53.15	5.26	Peak	178	164
6	5725.00	59.54	68.20	-8.66	53.83	5.71	Peak	178	164
7	6045.00	60.68	68.20	-7.52	54.37	6.31	Peak	185	162
8	11160.00	50.49	54.00	-3.51	35.95	14.54	Average	182	60
9	11160.00	65.31	74.00	-8.69	50.77	14.54	Peak	182	60
10	16740.00	60.68	68.20	-7.52	42.53	18.15	Peak	222	199

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

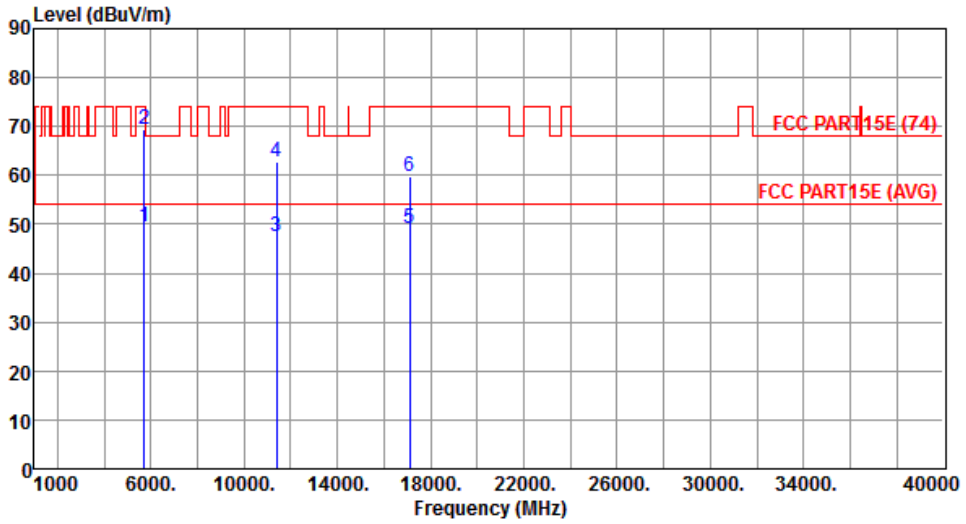
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5115.00	45.95	54.00	-8.05	41.09	4.86	Average	207	6
2	5115.00	59.08	74.00	-14.92	54.22	4.86	Peak	207	6
3	5460.00	46.36	54.00	-7.64	41.10	5.26	Average	182	265
4	5460.00	59.50	74.00	-14.50	54.24	5.26	Peak	182	265
5	5470.00	59.85	68.20	-8.35	54.59	5.26	Peak	182	265
6	5725.00	60.08	68.20	-8.12	54.37	5.71	Peak	182	265
7	6045.00	61.24	68.20	-6.96	54.93	6.31	Peak	185	353
8	11160.00	52.08	54.00	-1.92	37.54	14.54	Average	335	33
9	11160.00	67.18	74.00	-6.82	52.64	14.54	Peak	335	33
10	16740.00	60.26	68.20	-7.94	42.11	18.15	Peak	222	169

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

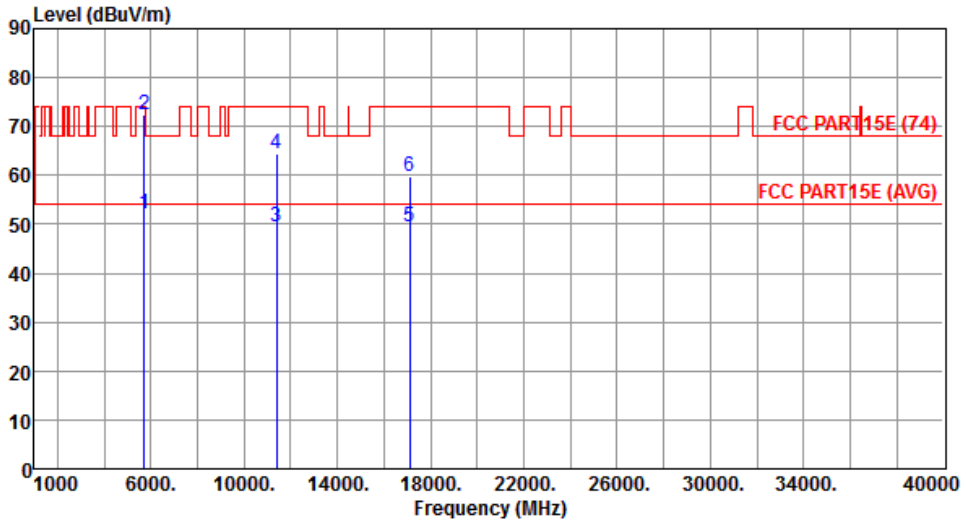
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	49.43	54.00	-4.57	43.72	5.71	Average	173	161
2	5725.00	69.56	74.00	-4.44	63.85	5.71	Peak	173	161
3	11400.00	47.43	54.00	-6.57	32.82	14.61	Average	278	117
4	11400.00	62.64	74.00	-11.36	48.03	14.61	Peak	278	117
5	17100.00	49.07	54.00	-4.93	29.15	19.92	Average	221	196
6	17100.00	59.75	74.00	-14.25	39.83	19.92	Peak	221	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).

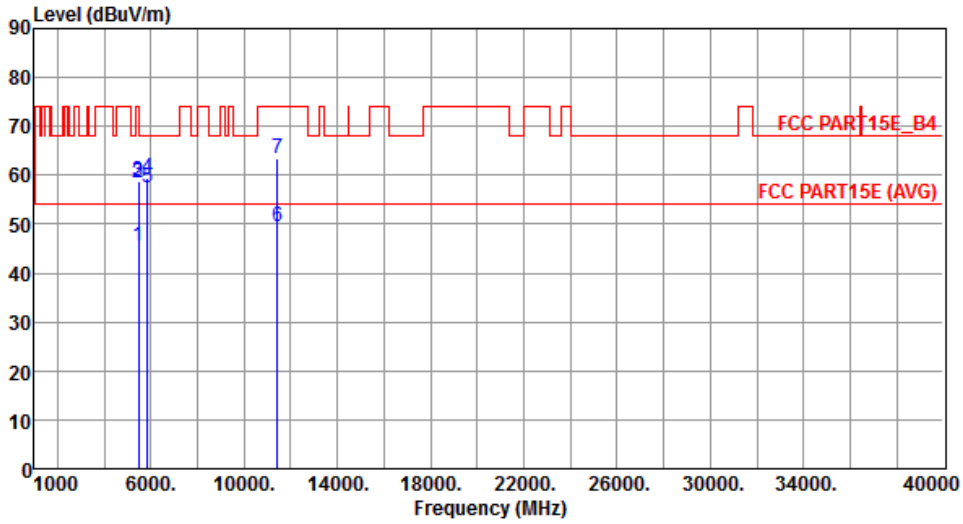
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.30	54.00	-1.70	46.59	5.71	Average	177	259
2	5725.00	72.25	74.00	-1.75	66.54	5.71	Peak	177	259
3	11400.00	49.62	54.00	-4.38	35.01	14.61	Average	333	18
4	11400.00	64.48	74.00	-9.52	49.87	14.61	Peak	333	18
5	17100.00	49.35	54.00	-4.65	29.43	19.92	Average	224	133
6	17100.00	59.86	74.00	-14.14	39.94	19.92	Peak	224	133

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).

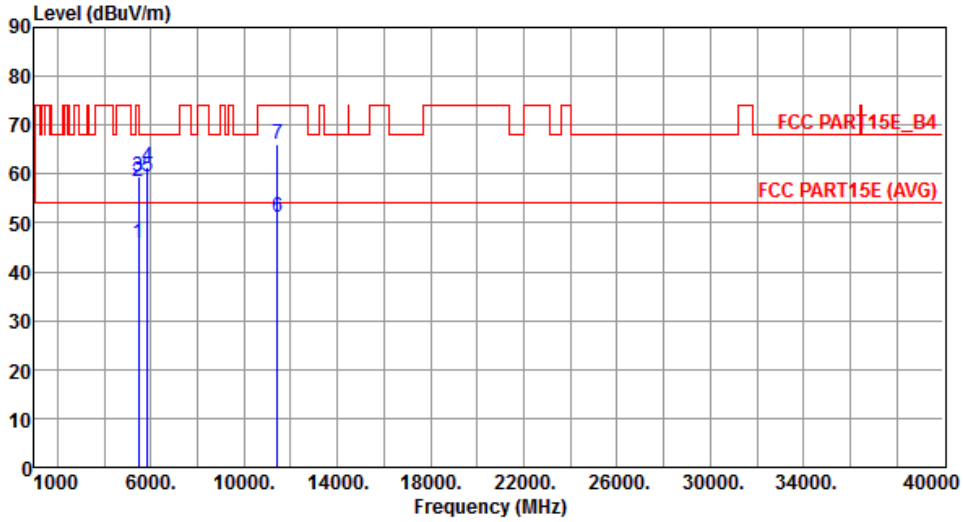
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.60	54.00	-8.40	40.34	5.26	Average	199	199
2	5460.00	58.47	74.00	-15.53	53.21	5.26	Peak	199	199
3	5470.00	58.81	68.20	-9.39	53.55	5.26	Peak	199	199
4	5850.00	59.31	78.20	-18.89	53.34	5.97	Peak	217	204
5	5860.00	57.32	68.20	-10.88	51.34	5.98	Peak	217	204
6	11440.00	49.48	54.00	-4.52	34.87	14.61	Average	161	325
7	11440.00	63.40	74.00	-10.60	48.79	14.61	Peak	161	325

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)	5720
Polarization	Vertical		

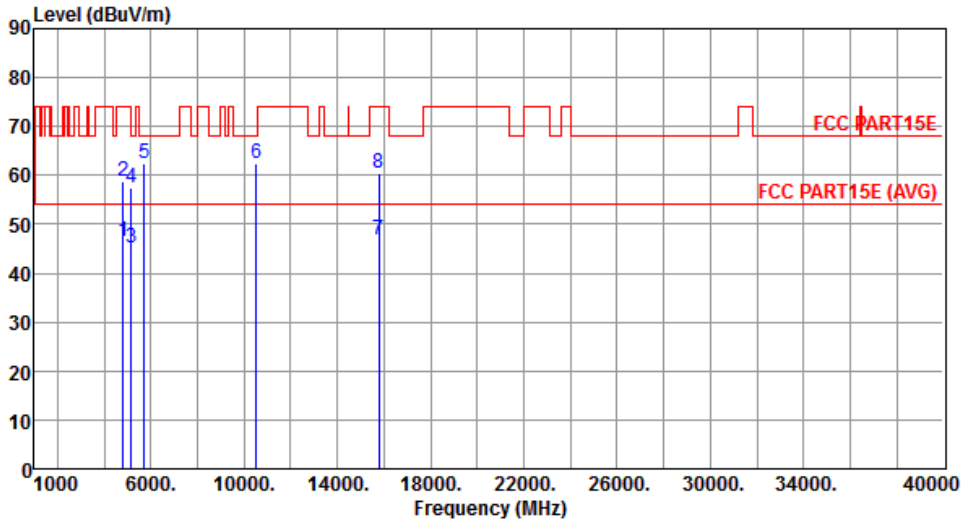


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.80	54.00	-8.20	40.54	5.26	Average	165	263
2	5460.00	58.60	74.00	-15.40	53.34	5.26	Peak	165	263
3	5470.00	59.37	68.20	-8.83	54.11	5.26	Peak	165	263
4	5850.00	61.43	78.20	-16.77	55.46	5.97	Peak	261	353
5	5860.00	59.49	68.20	-8.71	53.51	5.98	Peak	261	353
6	11440.00	51.20	54.00	-2.80	36.59	14.61	Average	150	353
7	11440.00	66.16	74.00	-7.84	51.55	14.61	Peak	150	353

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

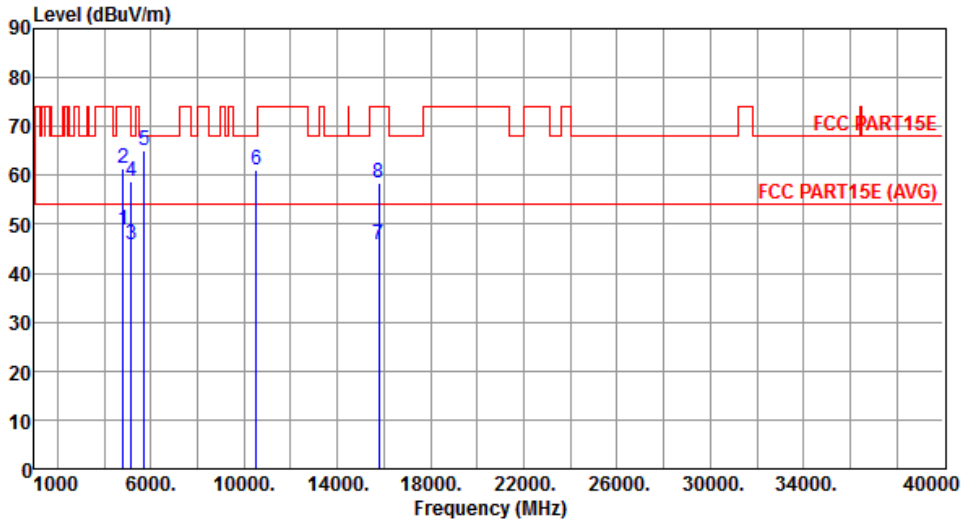
Modulation	VHT20	**Test Freq. (MHz)**	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4820.00	46.52	54.00	-7.48	42.26	4.26	Average	201	303
2	4820.00	58.85	74.00	-15.15	54.59	4.26	Peak	201	303
3	5150.00	45.00	54.00	-9.00	40.10	4.90	Average	311	190
4	5150.00	57.55	74.00	-16.45	52.65	4.90	Peak	311	190
5	5700.00	62.57	68.20	-5.63	56.91	5.66	Peak	198	163
6	10520.00	62.41	68.20	-5.79	48.46	13.95	Peak	257	21
7	15780.00	46.96	54.00	-7.04	31.70	15.26	Average	204	49
8	15780.00	60.32	74.00	-13.68	45.06	15.26	Peak	204	49

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).

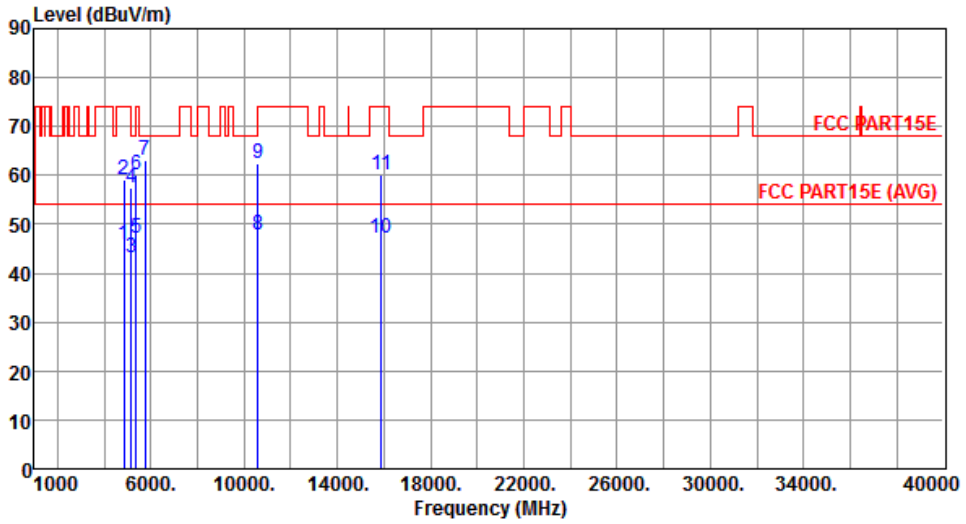
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4820.00	48.78	54.00	-5.22	44.52	4.26	Average	316	340
2	4820.00	61.37	74.00	-12.63	57.11	4.26	Peak	316	340
3	5150.00	45.73	54.00	-8.27	40.83	4.90	Average	210	233
4	5150.00	58.63	74.00	-15.37	53.73	4.90	Peak	210	233
5	5700.00	65.25	68.20	-2.95	59.59	5.66	Peak	297	355
6	10520.00	61.13	68.20	-7.07	47.18	13.95	Peak	294	17
7	15780.00	45.95	54.00	-8.05	30.69	15.26	Average	213	161
8	15780.00	58.43	74.00	-15.57	43.17	15.26	Peak	213	161

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).

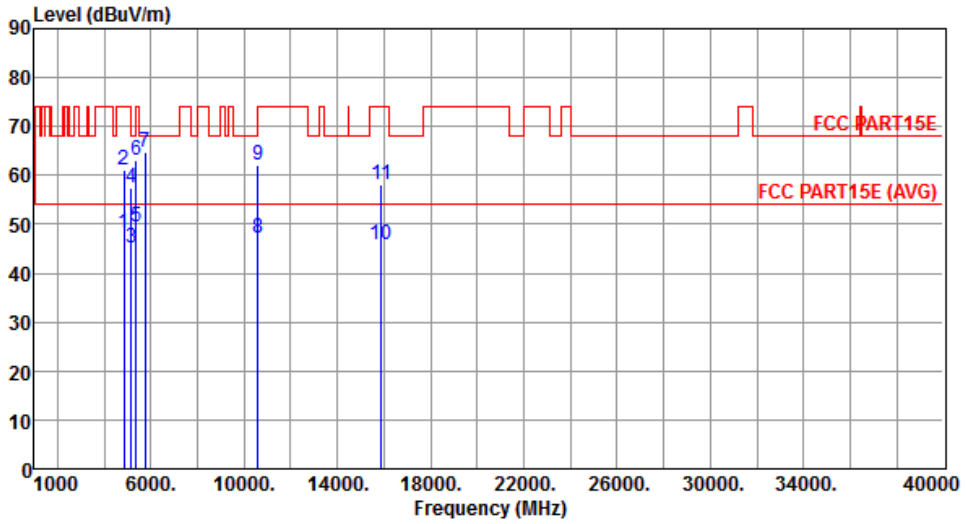
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4860.00	45.98	54.00	-8.02	41.63	4.35	Average	188	319
2	4860.00	59.17	74.00	-14.83	54.82	4.35	Peak	188	319
3	5150.00	43.31	54.00	-10.69	38.41	4.90	Average	228	41
4	5150.00	57.43	74.00	-16.57	52.53	4.90	Peak	228	41
5	5350.00	47.15	54.00	-6.85	42.02	5.13	Average	228	41
6	5350.00	59.96	74.00	-14.04	54.83	5.13	Peak	228	41
7	5740.00	63.14	68.20	-5.06	57.38	5.76	Peak	178	152
8	10600.00	47.72	54.00	-6.28	33.68	14.04	Average	248	19
9	10600.00	62.53	74.00	-11.47	48.49	14.04	Peak	248	19
10	15900.00	47.03	54.00	-6.97	31.99	15.04	Average	213	48
11	15900.00	60.10	74.00	-13.90	45.06	15.04	Peak	213	48

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).

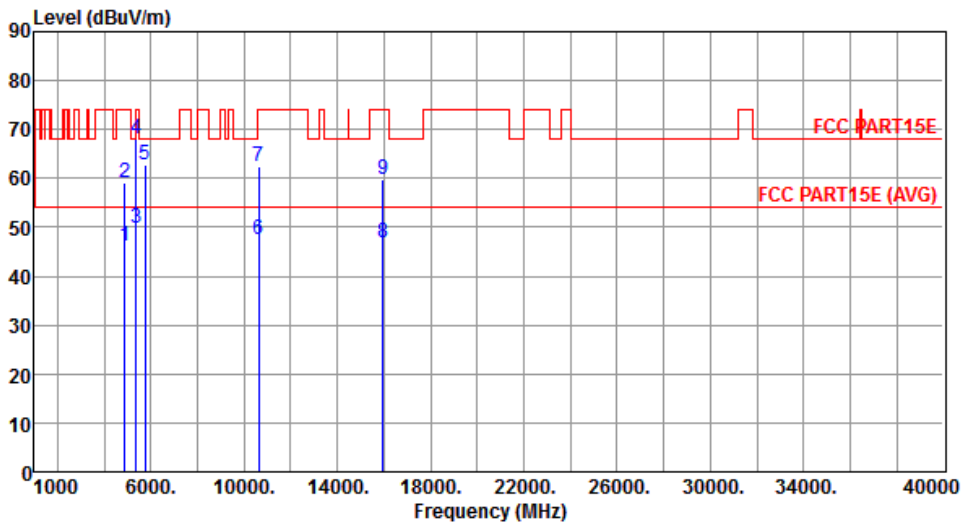
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4860.00	48.29	54.00	-5.71	43.94	4.35	Average	201	17
2	4860.00	61.23	74.00	-12.77	56.88	4.35	Peak	201	17
3	5150.00	45.15	54.00	-8.85	40.25	4.90	Average	212	264
4	5150.00	57.30	74.00	-16.70	52.40	4.90	Peak	212	264
5	5350.00	49.46	54.00	-4.54	44.33	5.13	Average	212	264
6	5350.00	62.97	74.00	-11.03	57.84	5.13	Peak	212	264
7	5740.00	64.80	68.20	-3.40	59.04	5.76	Peak	213	358
8	10600.00	47.25	54.00	-6.75	33.21	14.04	Average	281	13
9	10600.00	62.04	74.00	-11.96	48.00	14.04	Peak	281	13
10	15900.00	45.87	54.00	-8.13	30.83	15.04	Average	229	159
11	15900.00	58.19	74.00	-15.81	43.15	15.04	Peak	229	159

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).

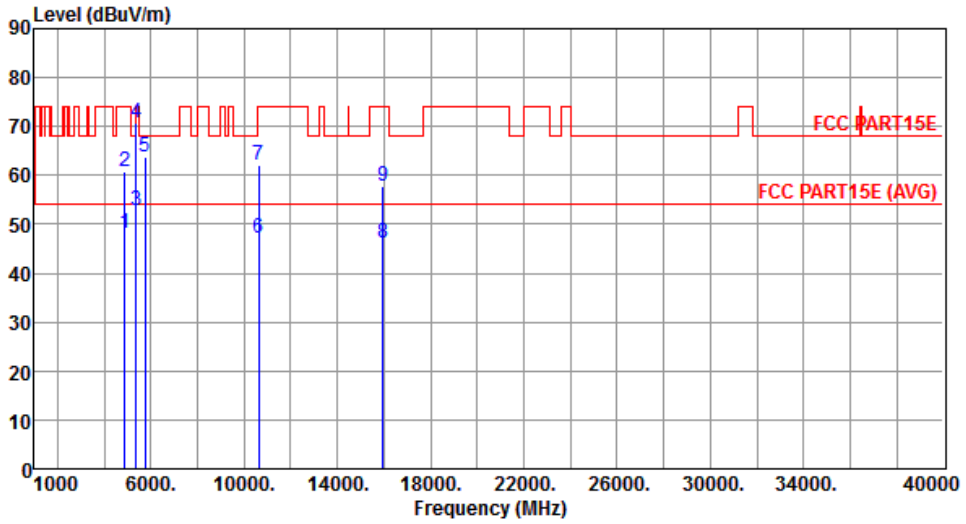
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4880.00	46.23	54.00	-7.77	41.82	4.41	Average	213	300
2	4880.00	59.02	74.00	-14.98	54.61	4.41	Peak	213	300
3	5350.00	49.87	54.00	-4.13	44.74	5.13	Average	205	31
4	5350.00	68.15	74.00	-5.85	63.02	5.13	Peak	205	31
5	5760.00	62.63	68.20	-5.57	56.84	5.79	Peak	198	170
6	10640.00	47.53	54.00	-6.47	33.44	14.09	Average	248	39
7	10640.00	62.28	74.00	-11.72	48.19	14.09	Peak	248	39
8	15960.00	46.98	54.00	-7.02	32.05	14.93	Average	225	35
9	15960.00	59.82	74.00	-14.18	44.89	14.93	Peak	225	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).

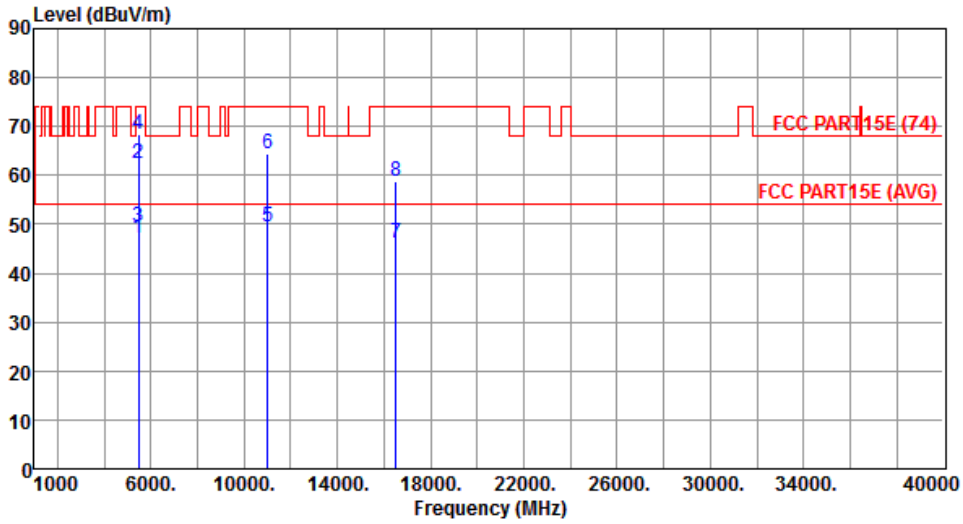
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4880.00	48.23	54.00	-5.77	43.82	4.41	Average	221	19
2	4880.00	60.82	74.00	-13.18	56.41	4.41	Peak	221	19
3	5350.00	52.95	54.00	-1.05	47.82	5.13	Average	217	234
4	5350.00	70.66	74.00	-3.34	65.53	5.13	Peak	217	234
5	5760.00	63.65	68.20	-4.55	57.86	5.79	Peak	215	7
6	10640.00	47.18	54.00	-6.82	33.09	14.09	Average	294	18
7	10640.00	62.13	74.00	-11.87	48.04	14.09	Peak	294	18
8	15960.00	46.30	54.00	-7.70	31.37	14.93	Average	207	153
9	15960.00	57.79	74.00	-16.21	42.86	14.93	Peak	207	153

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).

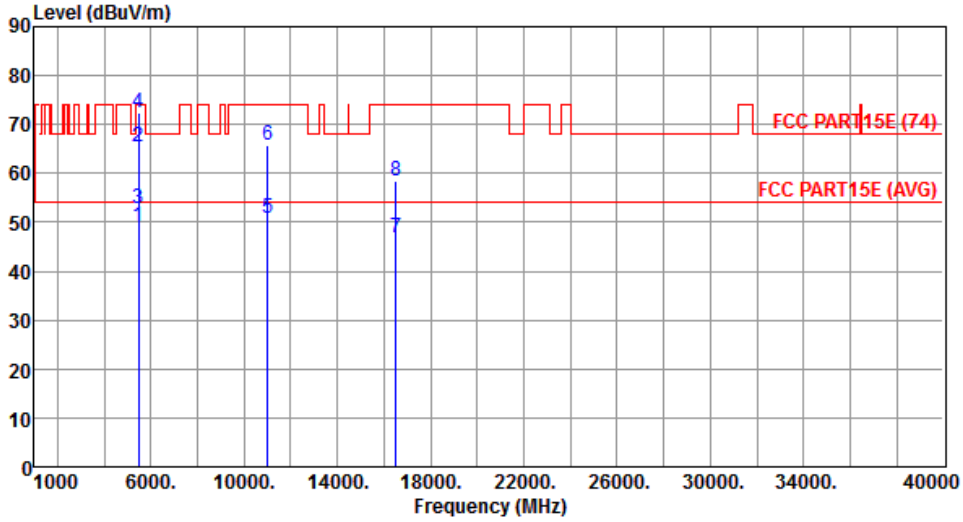
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.15	54.00	-6.85	41.89	5.26	Average	275	183
2	5460.00	62.52	74.00	-11.48	57.26	5.26	Peak	275	183
3	5470.00	49.61	54.00	-4.39	44.35	5.26	Average	275	183
4	5470.00	68.28	74.00	-5.72	63.02	5.26	Peak	275	183
5	11000.00	49.33	54.00	-4.67	34.84	14.49	Average	182	70
6	11000.00	64.35	74.00	-9.65	49.86	14.49	Peak	182	70
7	16500.00	46.05	54.00	-7.95	29.04	17.01	Average	228	219
8	16500.00	58.78	74.00	-15.22	41.77	17.01	Peak	228	219

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).

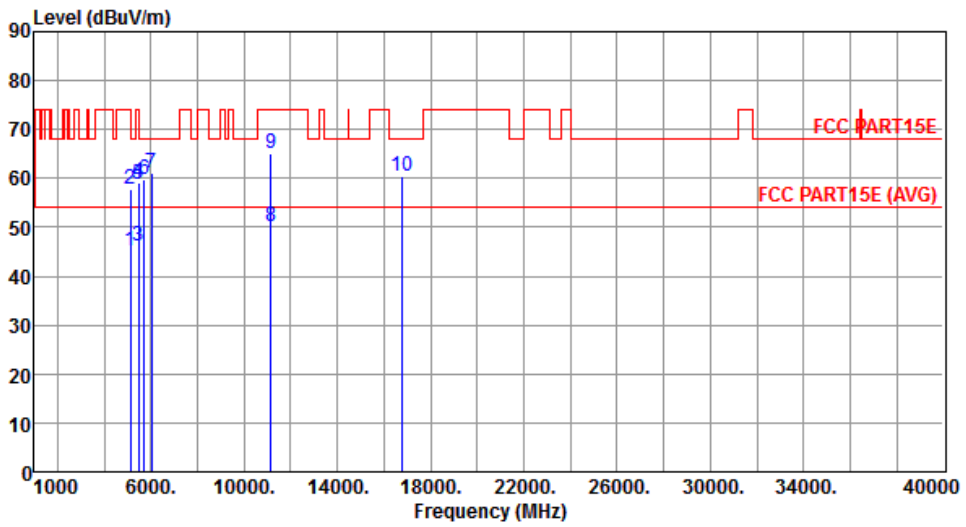
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.17	54.00	-4.83	43.91	5.26	Average	184	268
2	5460.00	65.40	74.00	-8.60	60.14	5.26	Peak	184	268
3	5470.00	52.85	54.00	-1.15	47.59	5.26	Average	184	268
4	5470.00	72.52	74.00	-1.48	67.26	5.26	Peak	184	268
5	11000.00	50.73	54.00	-3.27	36.24	14.49	Average	318	25
6	11000.00	65.89	74.00	-8.11	51.40	14.49	Peak	318	25
7	16500.00	46.67	54.00	-7.33	29.66	17.01	Average	205	188
8	16500.00	58.34	74.00	-15.66	41.33	17.01	Peak	205	188

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).

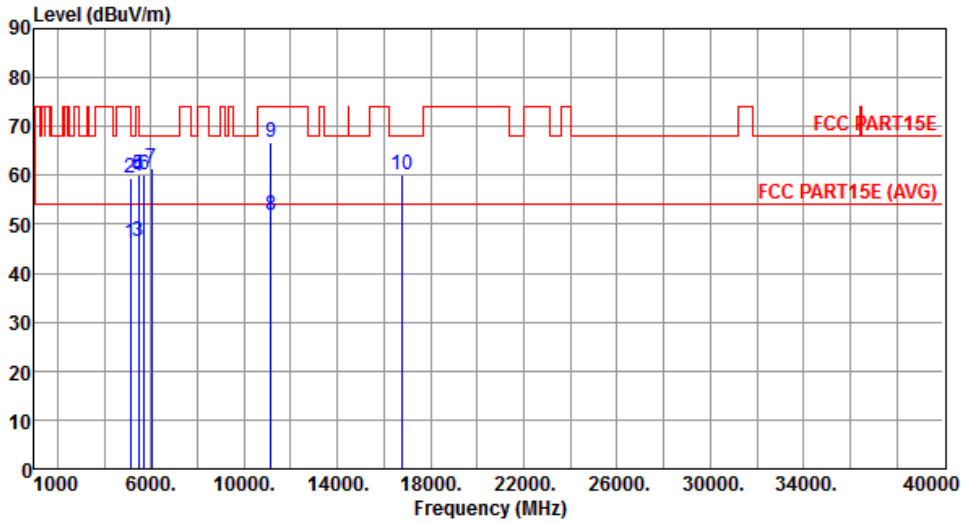
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5115.00	45.13	54.00	-8.87	40.27	4.86	Average	172	160
2	5115.00	57.88	74.00	-16.12	53.02	4.86	Peak	172	160
3	5460.00	46.10	54.00	-7.90	40.84	5.26	Average	172	160
4	5460.00	59.05	74.00	-14.95	53.79	5.26	Peak	172	160
5	5470.00	58.90	68.20	-9.30	53.64	5.26	Peak	172	160
6	5725.00	59.78	68.20	-8.42	54.07	5.71	Peak	172	160
7	6045.00	61.12	68.20	-7.08	54.81	6.31	Peak	183	167
8	11160.00	50.12	54.00	-3.88	35.58	14.54	Average	178	52
9	11160.00	65.04	74.00	-8.96	50.50	14.54	Peak	178	52
10	16740.00	60.33	68.20	-7.87	42.18	18.15	Peak	228	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).

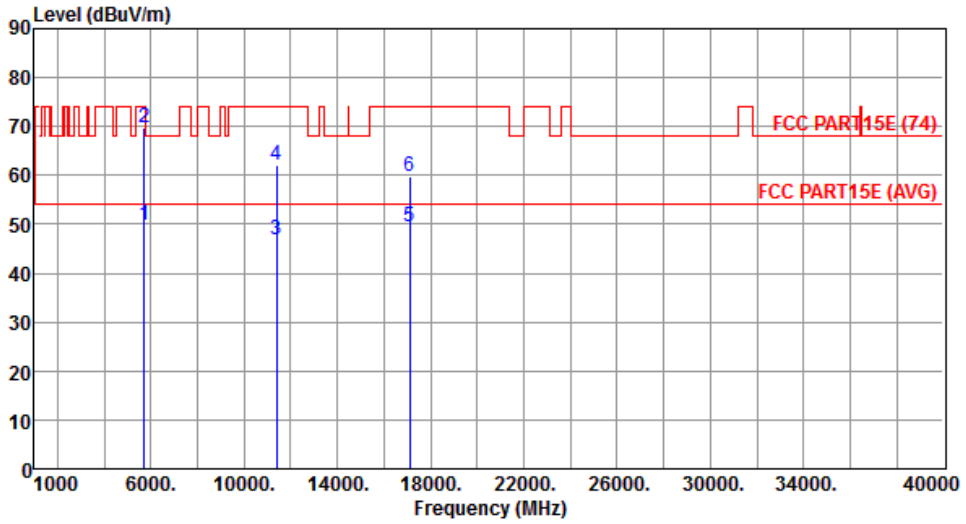
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5115.00	46.18	54.00	-7.82	41.32	4.86	Average	202	11
2	5115.00	59.35	74.00	-14.65	54.49	4.86	Peak	202	11
3	5460.00	46.62	54.00	-7.38	41.36	5.26	Average	189	261
4	5460.00	59.74	74.00	-14.26	54.48	5.26	Peak	189	261
5	5470.00	60.11	68.20	-8.09	54.85	5.26	Peak	189	261
6	5725.00	60.24	68.20	-7.96	54.53	5.71	Peak	189	261
7	6045.00	61.53	68.20	-6.67	55.22	6.31	Peak	180	347
8	11160.00	51.72	54.00	-2.28	37.18	14.54	Average	332	27
9	11160.00	66.84	74.00	-7.16	52.30	14.54	Peak	332	27
10	16740.00	60.02	68.20	-8.18	41.87	18.15	Peak	214	165

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).

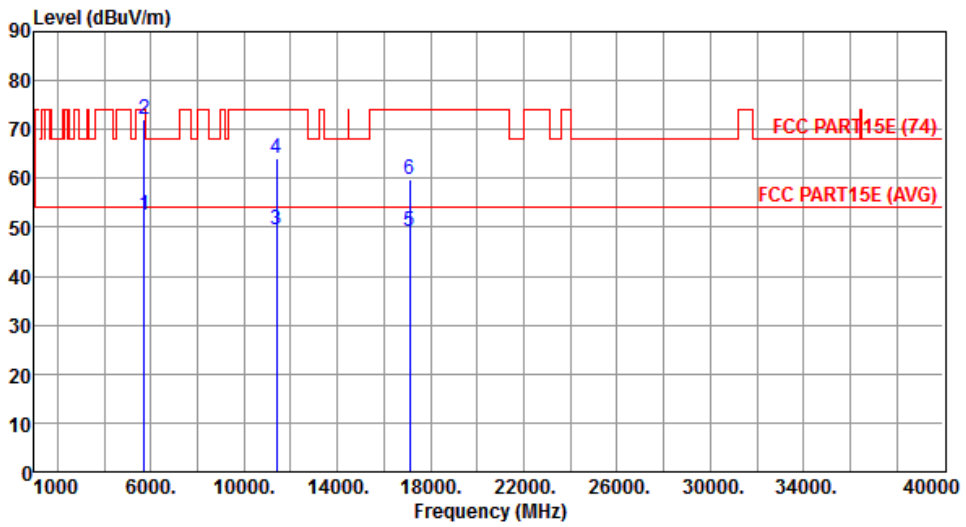
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	49.70	54.00	-4.30	43.99	5.71	Average	168	165
2	5725.00	69.80	74.00	-4.20	64.09	5.71	Peak	168	165
3	11400.00	46.87	54.00	-7.13	32.26	14.61	Average	271	112
4	11400.00	62.11	74.00	-11.89	47.50	14.61	Peak	271	112
5	17100.00	49.38	54.00	-4.62	29.46	19.92	Average	219	195
6	17100.00	59.63	74.00	-14.37	39.71	19.92	Peak	219	195

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).

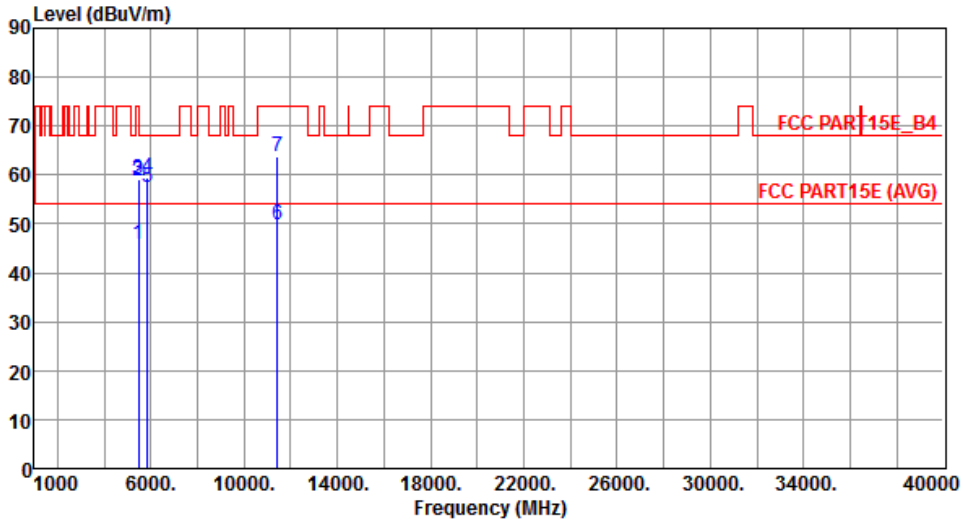
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.37	54.00	-1.63	46.66	5.71	Average	165	260
2	5725.00	72.23	74.00	-1.77	66.52	5.71	Peak	165	260
3	11400.00	49.33	54.00	-4.67	34.72	14.61	Average	318	12
4	11400.00	64.02	74.00	-9.98	49.41	14.61	Peak	318	12
5	17100.00	49.22	54.00	-4.78	29.30	19.92	Average	218	139
6	17100.00	59.65	74.00	-14.35	39.73	19.92	Peak	218	139

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).

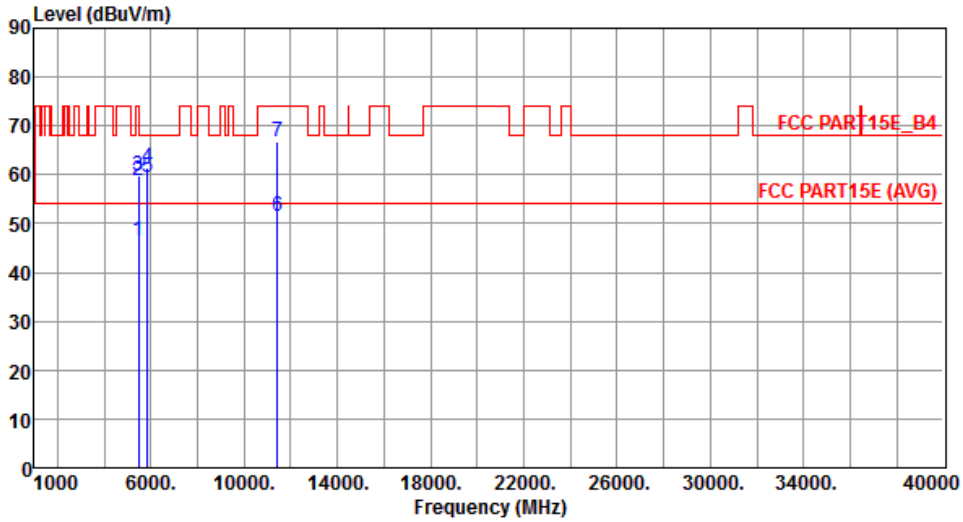
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.84	54.00	-8.16	40.58	5.26	Average	200	186
2	5460.00	58.64	74.00	-15.36	53.38	5.26	Peak	200	186
3	5470.00	59.04	68.20	-9.16	53.78	5.26	Peak	200	186
4	5850.00	59.43	78.20	-18.77	53.46	5.97	Peak	214	261
5	5860.00	57.45	68.20	-10.75	51.47	5.98	Peak	214	261
6	11440.00	49.82	54.00	-4.18	35.21	14.61	Average	166	298
7	11440.00	63.72	74.00	-10.28	49.11	14.61	Peak	166	298

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)	5720
Polarization	Vertical		

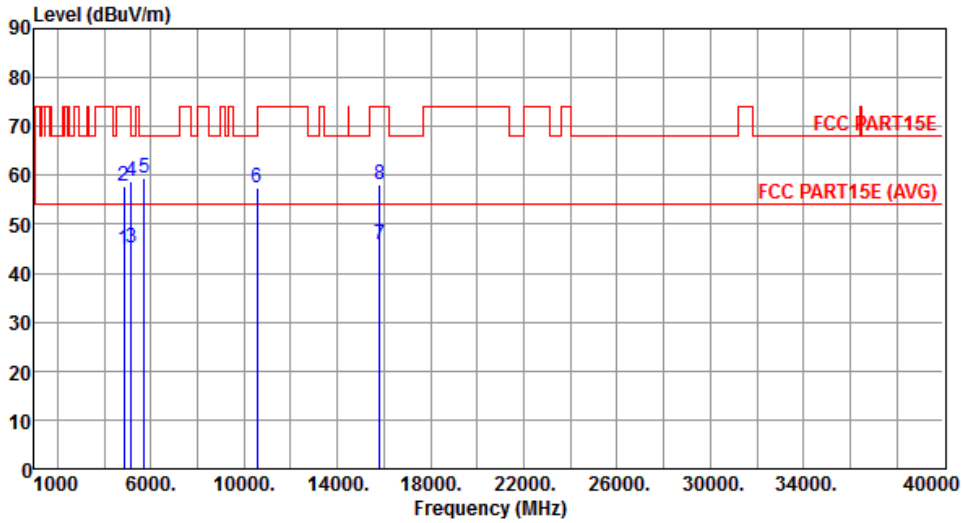


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.34	54.00	-7.66	41.08	5.26	Average	166	253
2	5460.00	58.84	74.00	-15.16	53.58	5.26	Peak	166	253
3	5470.00	59.61	68.20	-8.59	54.35	5.26	Peak	166	253
4	5850.00	61.42	78.20	-16.78	55.45	5.97	Peak	202	345
5	5860.00	59.35	68.20	-8.85	53.37	5.98	Peak	202	345
6	11440.00	51.50	54.00	-2.50	36.89	14.61	Average	166	34
7	11440.00	66.59	74.00	-7.41	51.98	14.61	Peak	166	34

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

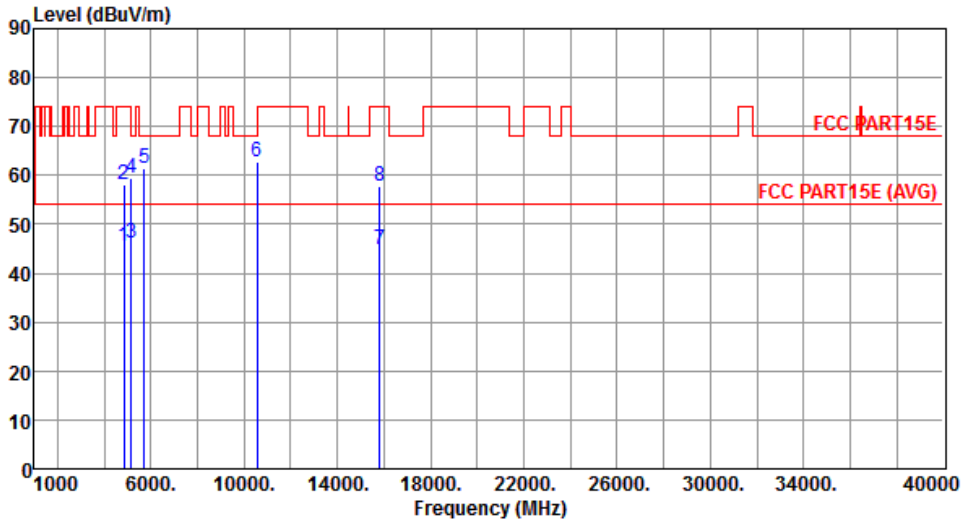
Modulation	VHT40	**Test Freq. (MHz)**	5270
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4830.00	44.98	54.00	-9.02	40.70	4.28	Average	235	184
2	4830.00	57.64	74.00	-16.36	53.36	4.28	Peak	235	184
3	5150.00	45.06	54.00	-8.94	40.16	4.90	Average	123	175
4	5150.00	58.82	74.00	-15.18	53.92	4.90	Peak	123	175
5	5710.00	59.48	68.20	-8.72	53.80	5.68	Peak	143	272
6	10540.00	57.39	68.20	-10.81	43.41	13.98	Peak	100	119
7	15810.00	45.68	54.00	-8.32	30.46	15.22	Average	218	336
8	15810.00	58.17	74.00	-15.83	42.95	15.22	Peak	218	336

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

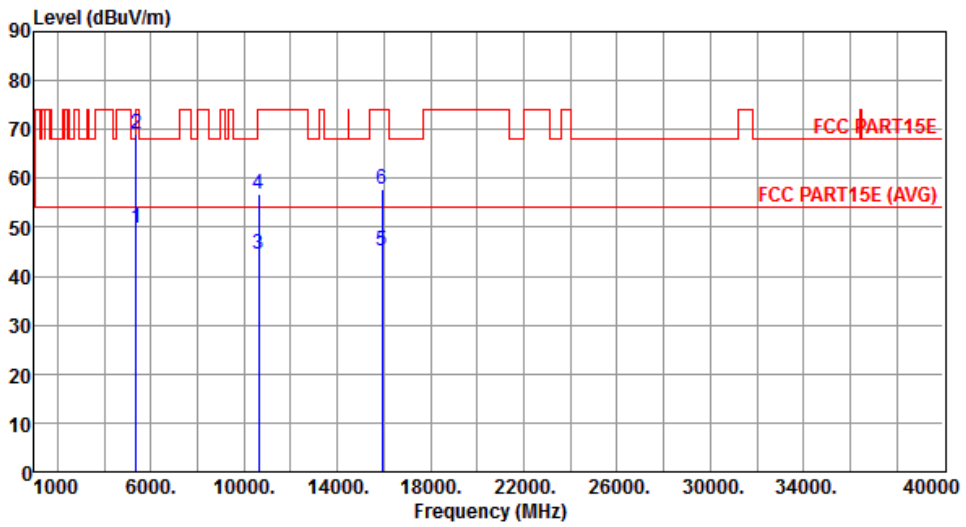
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4830.00	45.38	54.00	-8.62	41.10	4.28	Average	204	213
2	4830.00	58.27	74.00	-15.73	53.99	4.28	Peak	204	213
3	5150.00	46.00	54.00	-8.00	41.10	4.90	Average	188	264
4	5150.00	59.35	74.00	-14.65	54.45	4.90	Peak	188	264
5	5710.00	61.28	68.20	-6.92	55.60	5.68	Peak	282	352
6	10540.00	62.72	68.20	-5.48	48.74	13.98	Peak	262	8
7	15810.00	44.84	54.00	-9.16	29.62	15.22	Average	266	34
8	15810.00	57.70	74.00	-16.30	42.48	15.22	Peak	266	34

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

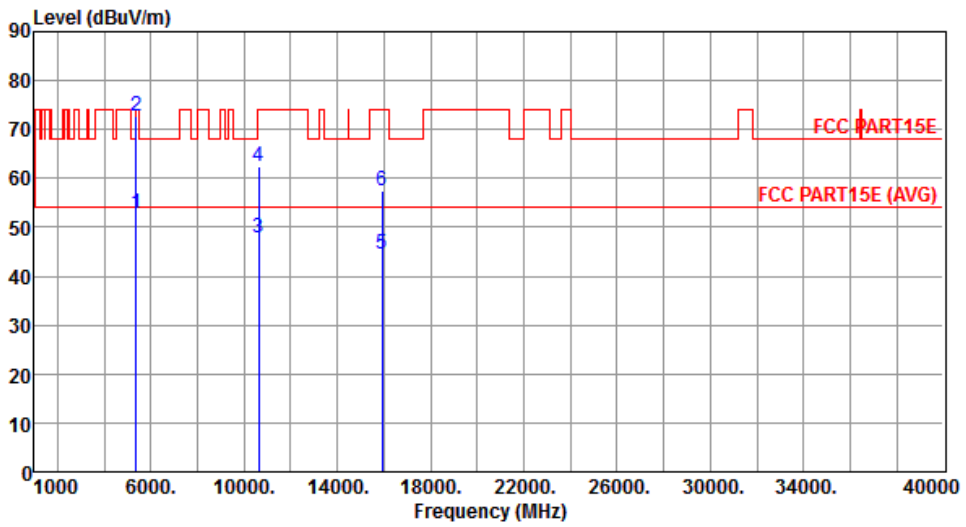
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	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	49.71	54.00	-4.29	44.58	5.13	Average	219	41
2	5350.00	69.23	74.00	-4.77	64.10	5.13	Peak	219	41
3	10620.00	44.43	54.00	-9.57	30.37	14.06	Average	100	111
4	10620.00	56.92	74.00	-17.08	42.86	14.06	Peak	100	111
5	15930.00	45.27	54.00	-8.73	30.29	14.98	Average	214	338
6	15930.00	57.93	74.00	-16.07	42.95	14.98	Peak	214	338

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

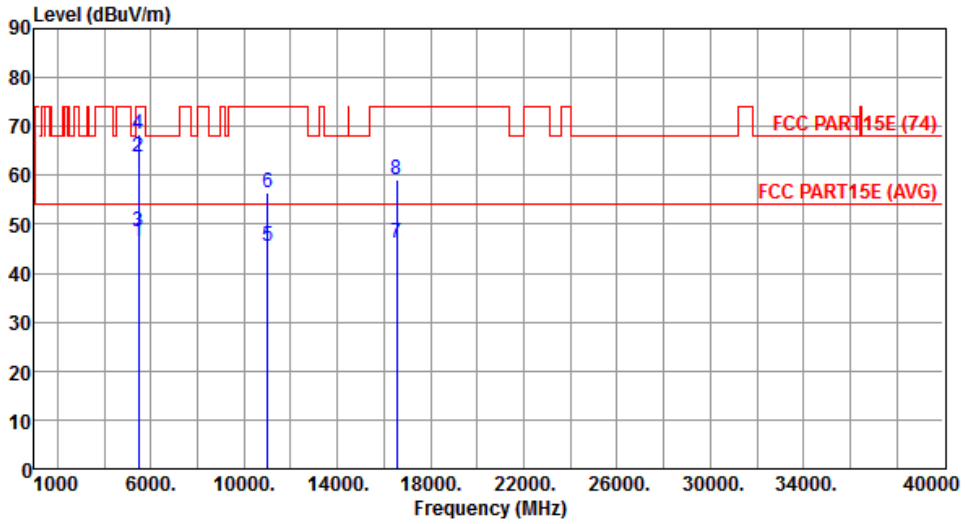
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	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	52.97	54.00	-1.03	47.84	5.13	Average	306	358
2	5350.00	72.88	74.00	-1.12	67.75	5.13	Peak	306	358
3	10620.00	47.89	54.00	-6.11	33.83	14.06	Average	254	5
4	10620.00	62.45	74.00	-11.55	48.39	14.06	Peak	254	5
5	15930.00	44.62	54.00	-9.38	29.64	14.98	Average	263	31
6	15930.00	57.34	74.00	-16.66	42.36	14.98	Peak	263	31

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

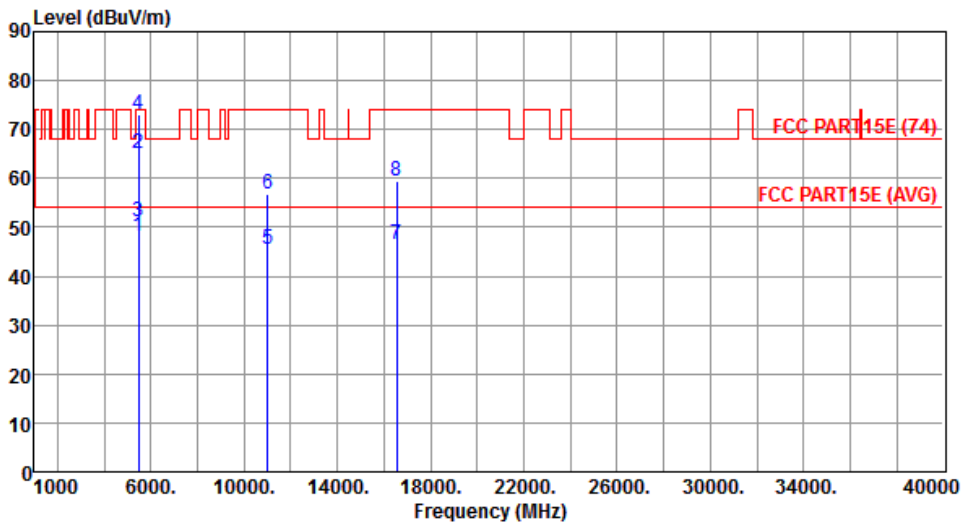
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.57	54.00	-7.43	41.31	5.26	Average	275	190
2	5460.00	63.60	74.00	-10.40	58.34	5.26	Peak	275	190
3	5470.00	48.43	54.00	-5.57	43.17	5.26	Average	275	190
4	5470.00	68.49	74.00	-5.51	63.23	5.26	Peak	275	190
5	11020.00	45.38	54.00	-8.62	30.89	14.49	Average	222	138
6	11020.00	56.46	74.00	-17.54	41.97	14.49	Peak	222	138
7	16530.00	46.23	54.00	-7.77	29.08	17.15	Average	126	38
8	16530.00	59.16	74.00	-14.84	42.01	17.15	Peak	126	38

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

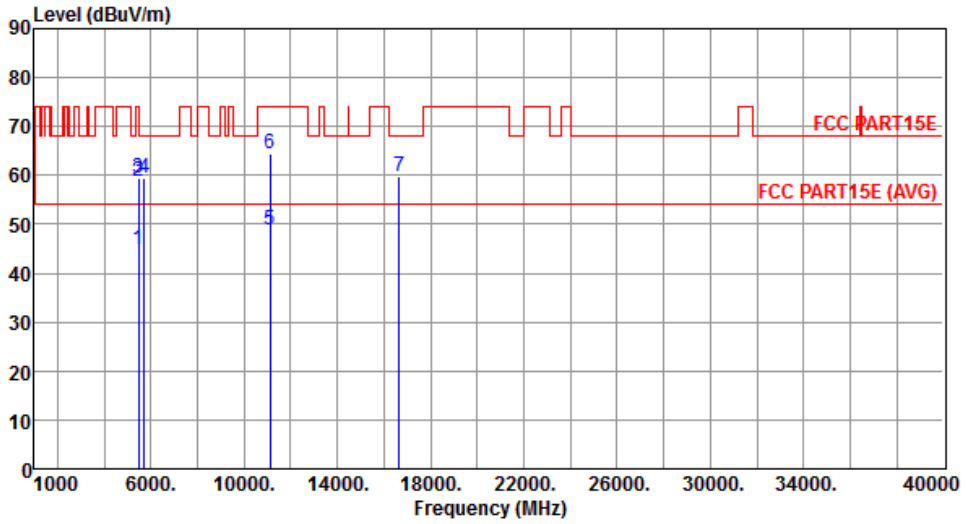
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.13	54.00	-5.87	42.87	5.26	Average	167	267
2	5460.00	65.21	74.00	-8.79	59.95	5.26	Peak	167	267
3	5470.00	51.14	54.00	-2.86	45.88	5.26	Average	181	273
4	5470.00	72.97	74.00	-1.03	67.71	5.26	Peak	181	273
5	11020.00	45.61	54.00	-8.39	31.12	14.49	Average	222	13
6	11020.00	56.63	74.00	-17.37	42.14	14.49	Peak	222	13
7	16530.00	46.47	54.00	-7.53	29.32	17.15	Average	166	321
8	16530.00	59.48	74.00	-14.52	42.33	17.15	Peak	166	321

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

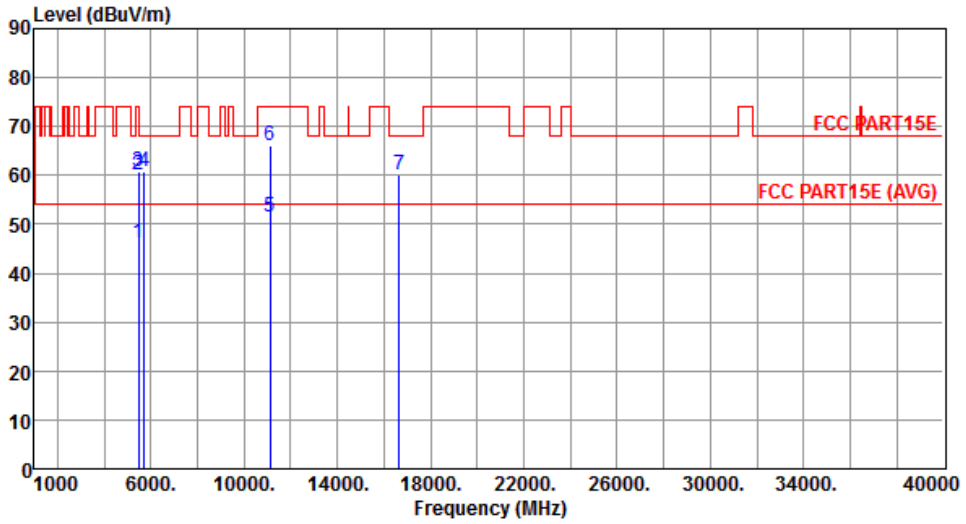
Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	44.78	54.00	-9.22	39.52	5.26	Average	199	159
2	5460.00	58.72	74.00	-15.28	53.46	5.26	Peak	199	159
3	5470.00	59.29	68.20	-8.91	54.03	5.26	Peak	199	159
4	5725.00	59.30	68.20	-8.90	53.59	5.71	Peak	199	159
5	11100.00	48.81	54.00	-5.19	34.30	14.51	Average	166	65
6	11100.00	64.36	74.00	-9.64	49.85	14.51	Peak	166	65
7	16650.00	59.93	68.20	-8.27	42.21	17.72	Peak	199	158

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

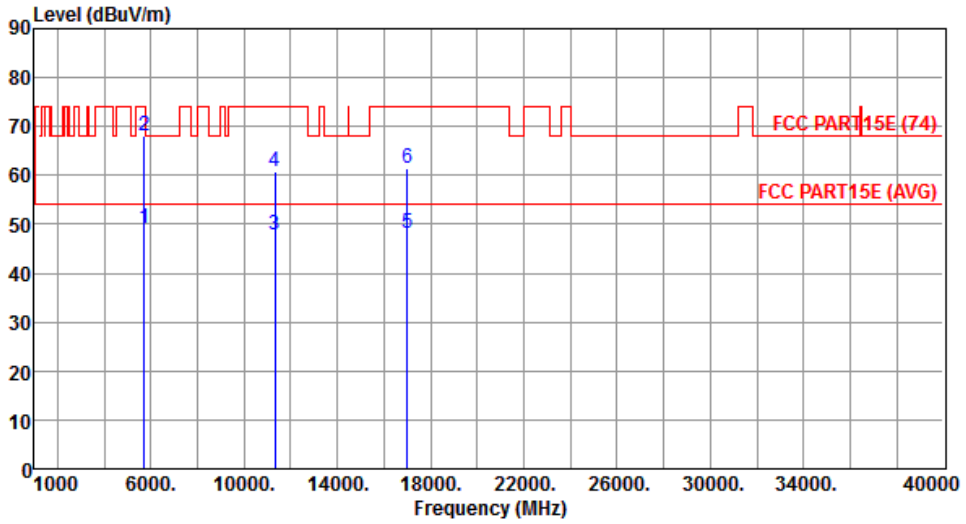
Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.09	54.00	-7.91	40.83	5.26	Average	188	257
2	5460.00	60.12	74.00	-13.88	54.86	5.26	Peak	188	257
3	5470.00	60.69	68.20	-7.51	55.43	5.26	Peak	188	257
4	5725.00	60.93	68.20	-7.27	55.22	5.71	Peak	188	257
5	11100.00	51.39	54.00	-2.61	36.88	14.51	Average	311	43
6	11100.00	65.95	74.00	-8.05	51.44	14.51	Peak	311	43
7	16650.00	60.04	68.20	-8.16	42.32	17.72	Peak	212	199

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

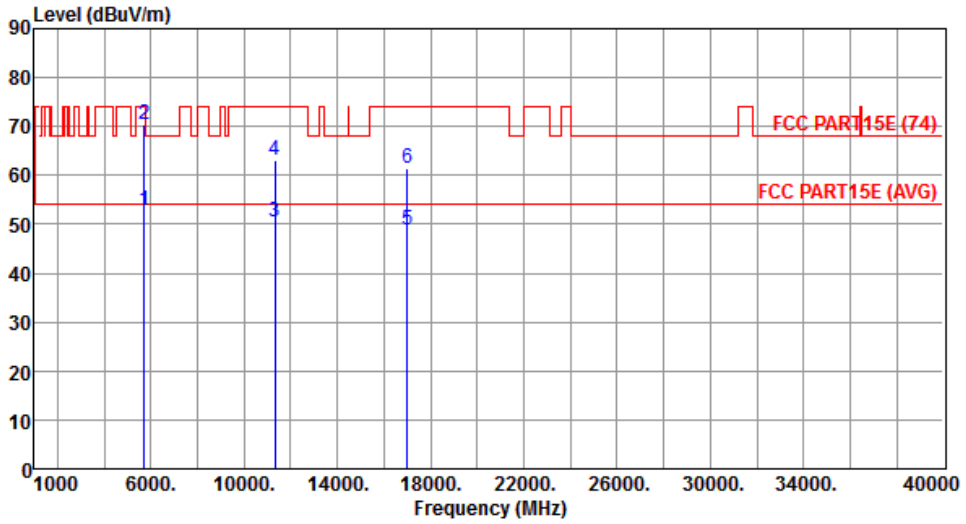
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	49.03	54.00	-4.97	43.32	5.71	Average	195	183
2	5725.00	68.00	74.00	-6.00	62.29	5.71	Peak	195	183
3	11340.00	47.83	54.00	-6.17	33.25	14.58	Average	188	53
4	11340.00	60.76	74.00	-13.24	46.18	14.58	Peak	188	53
5	17010.00	48.31	54.00	-5.69	28.87	19.44	Average	166	199
6	17010.00	61.30	74.00	-12.70	41.86	19.44	Peak	166	199

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

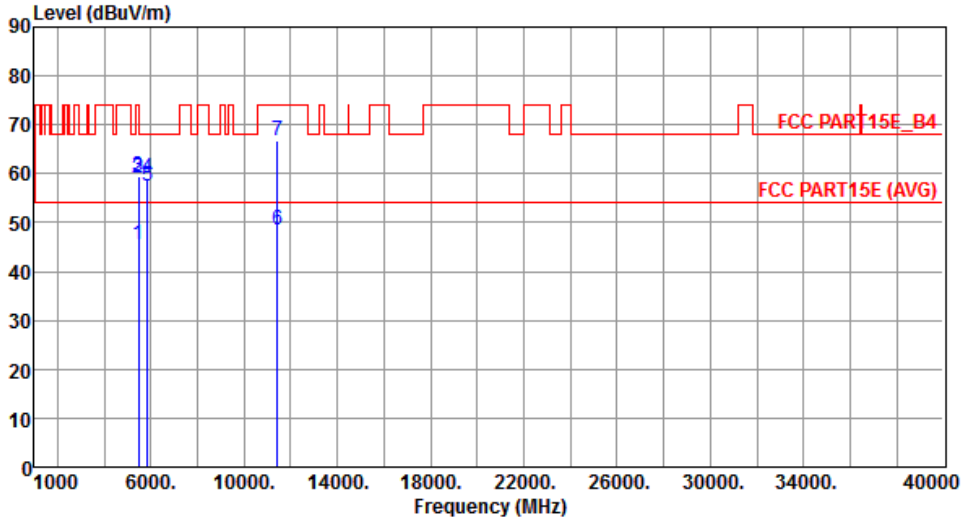
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.94	54.00	-1.06	47.23	5.71	Average	165	266
2	5725.00	70.26	74.00	-3.74	64.55	5.71	Peak	165	266
3	11340.00	50.46	54.00	-3.54	35.88	14.58	Average	333	29
4	11340.00	63.24	74.00	-10.76	48.66	14.58	Peak	333	29
5	17010.00	48.67	54.00	-5.33	29.23	19.44	Average	222	187
6	17010.00	61.40	74.00	-12.60	41.96	19.44	Peak	222	187

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).

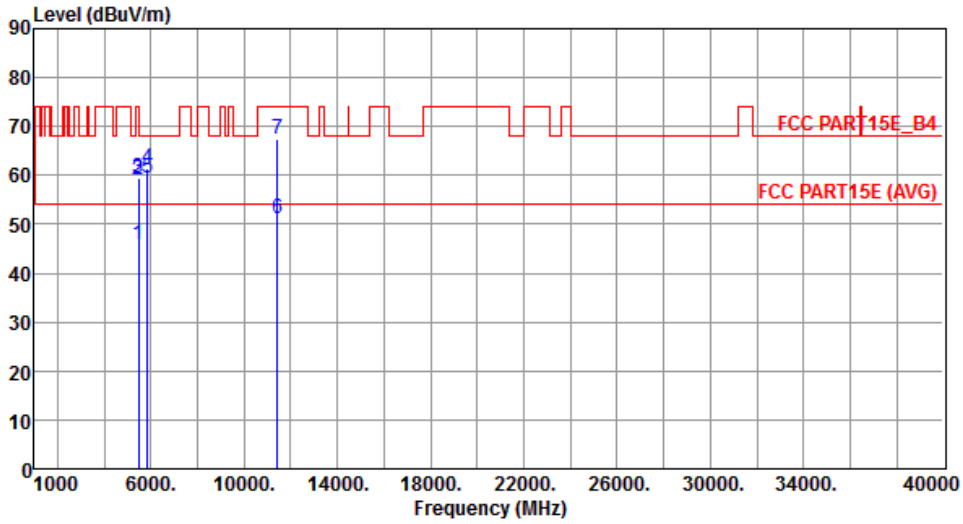
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.63	54.00	-8.37	40.37	5.26	Average	200	183
2	5460.00	59.12	74.00	-14.88	53.86	5.26	Peak	200	183
3	5470.00	59.47	68.20	-8.73	54.21	5.26	Peak	200	183
4	5850.00	59.23	78.20	-18.97	53.26	5.97	Peak	212	236
5	5860.00	57.49	68.20	-10.71	51.51	5.98	Peak	212	236
6	11420.00	48.59	54.00	-5.41	33.98	14.61	Average	255	332
7	11420.00	66.60	74.00	-7.40	51.99	14.61	Peak	255	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	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		

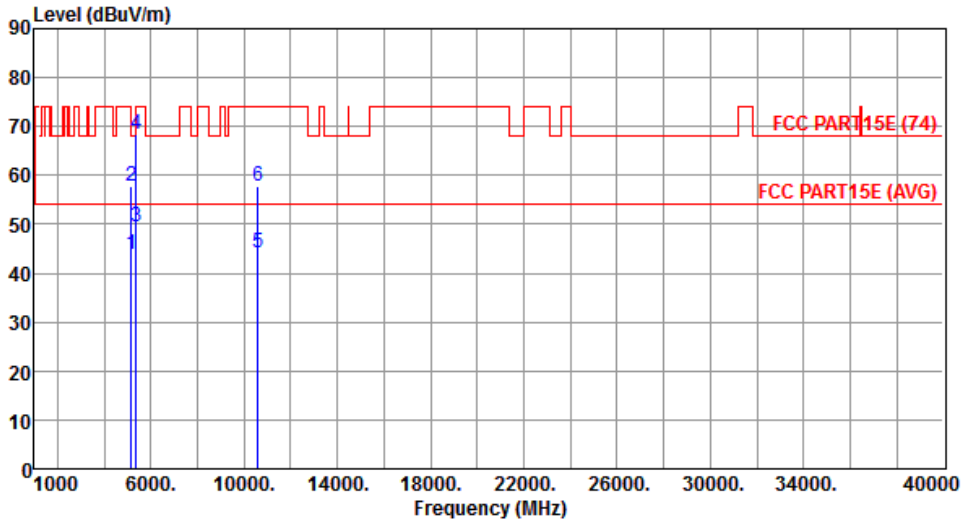


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.87	54.00	-8.13	40.61	5.26	Average	179	266
2	5460.00	59.03	74.00	-14.97	53.77	5.26	Peak	179	266
3	5470.00	59.34	68.20	-8.86	54.08	5.26	Peak	179	266
4	5850.00	61.42	78.20	-16.78	55.45	5.97	Peak	230	13
5	5860.00	59.35	68.20	-8.85	53.37	5.98	Peak	230	13
6	11420.00	51.14	54.00	-2.86	36.53	14.61	Average	300	19
7	11420.00	67.35	74.00	-6.65	52.74	14.61	Peak	300	19

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

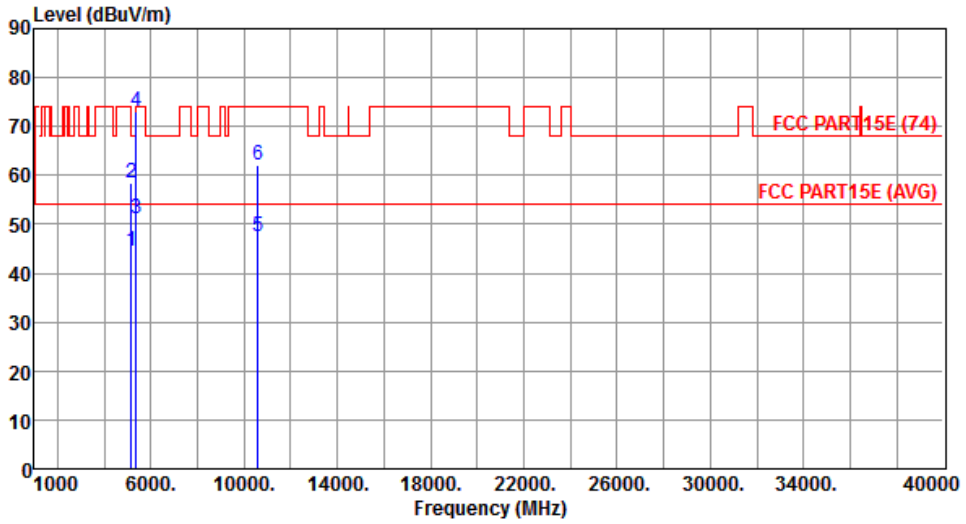
Modulation	VHT80	**Test Freq. (MHz)**	5290
Polarization	Horizontal		



	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	43.89	54.00	-10.11	38.99	4.90	Average	216	44
2	5150.00	57.88	74.00	-16.12	52.98	4.90	Peak	216	44
3	5350.00	49.45	54.00	-4.55	44.32	5.13	Average	216	44
4	5350.00	68.42	74.00	-5.58	63.29	5.13	Peak	216	44
5	10580.00	44.27	54.00	-9.73	30.25	14.02	Average	190	66
6	10580.00	57.67	74.00	-16.33	43.65	14.02	Peak	190	66

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

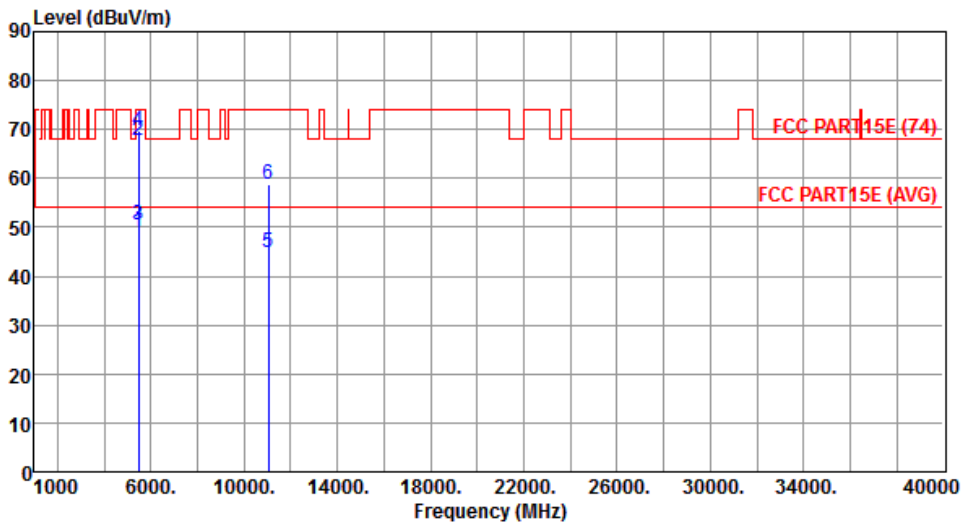
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.66	54.00	-9.34	39.76	4.90	Average	213	271
2	5150.00	58.36	74.00	-15.64	53.46	4.90	Peak	213	271
3	5350.00	51.31	54.00	-2.69	46.18	5.13	Average	213	271
4	5350.00	72.94	74.00	-1.06	67.81	5.13	Peak	213	271
5	10580.00	47.59	54.00	-6.41	33.57	14.02	Average	333	47
6	10580.00	61.99	74.00	-12.01	47.97	14.02	Peak	333	47

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

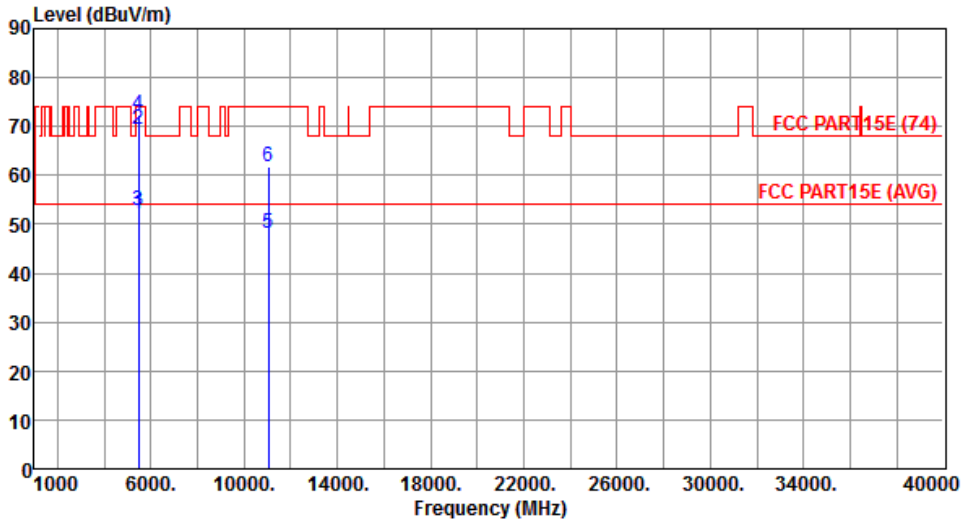
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.24	54.00	-4.76	43.98	5.26	Average	195	188
2	5460.00	67.63	74.00	-6.37	62.37	5.26	Peak	195	188
3	5470.00	50.54	54.00	-3.46	45.28	5.26	Average	195	188
4	5470.00	69.65	74.00	-4.35	64.39	5.26	Peak	195	188
5	11060.00	44.98	54.00	-9.02	30.47	14.51	Average	190	69
6	11060.00	58.79	74.00	-15.21	44.28	14.51	Peak	190	69

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

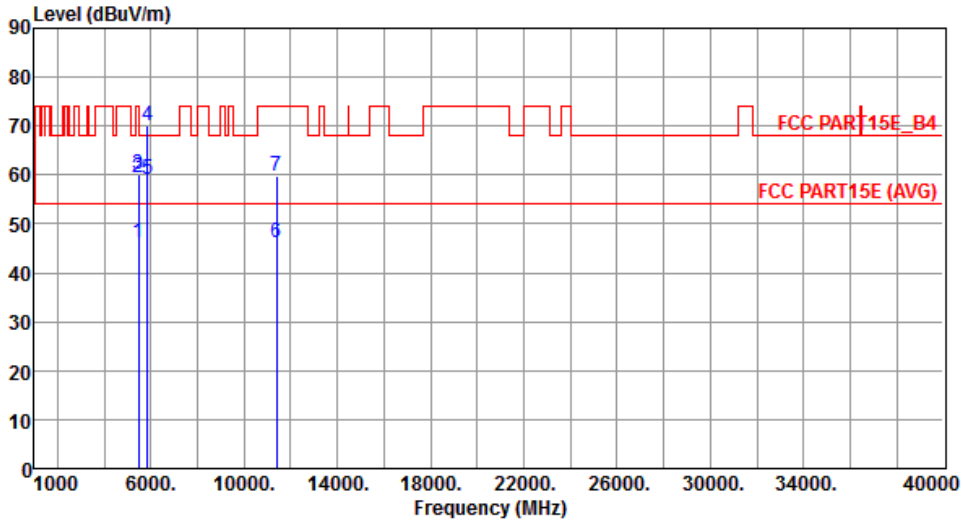
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	52.12	54.00	-1.88	46.86	5.26	Average	292	356
2	5460.00	69.50	74.00	-4.50	64.24	5.26	Peak	292	356
3	5470.00	52.94	54.00	-1.06	47.68	5.26	Average	292	356
4	5470.00	72.49	74.00	-1.51	67.23	5.26	Peak	292	356
5	11060.00	48.14	54.00	-5.86	33.63	14.51	Average	333	68
6	11060.00	61.88	74.00	-12.12	47.37	14.51	Peak	333	68

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).

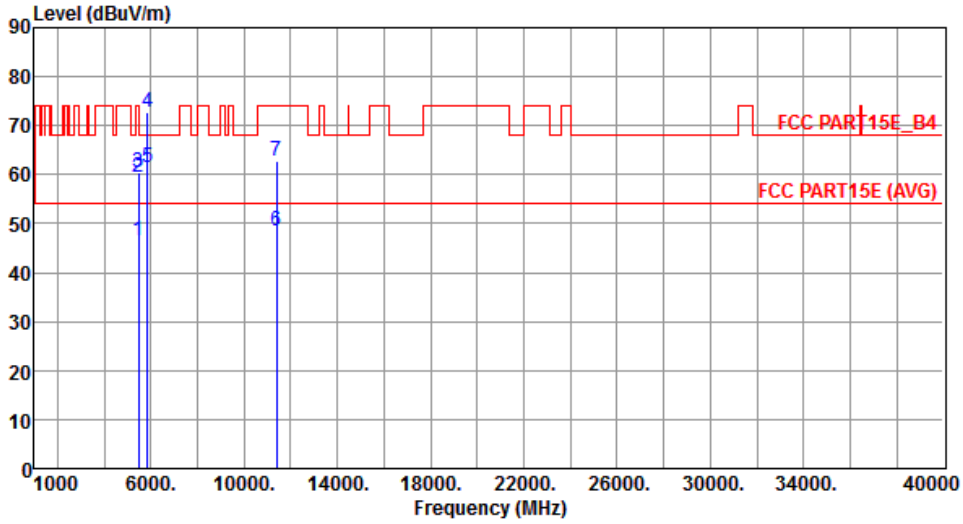
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.08	54.00	-7.92	40.82	5.26	Average	255	183
2	5460.00	59.56	74.00	-14.44	54.30	5.26	Peak	255	183
3	5470.00	60.00	68.20	-8.20	54.74	5.26	Peak	255	183
4	5850.00	70.00	78.20	-8.20	64.03	5.97	Peak	248	265
5	5860.00	59.23	68.20	-8.97	53.25	5.98	Peak	248	265
6	11380.00	46.19	54.00	-7.81	31.59	14.60	Average	266	228
7	11380.00	59.91	74.00	-14.09	45.31	14.60	Peak	266	228

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)	5690
Polarization	Vertical		



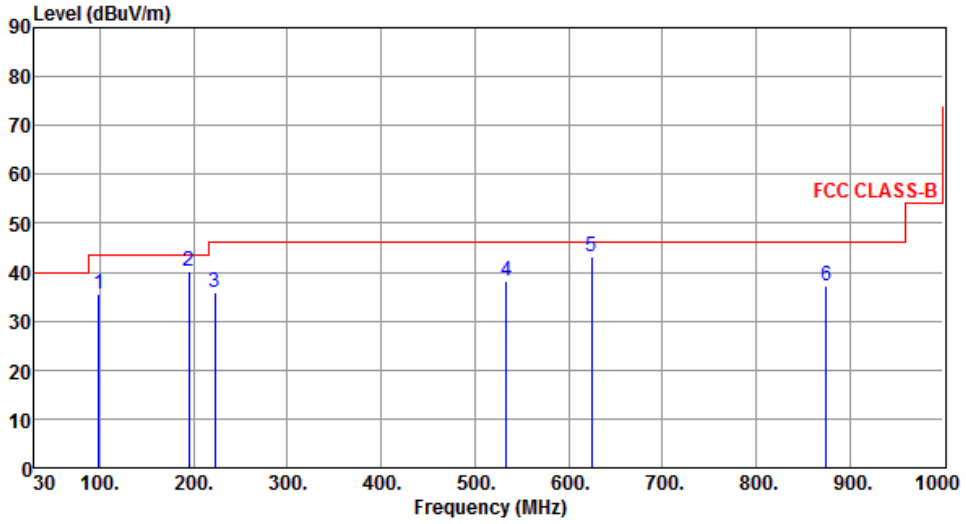
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.33	54.00	-7.67	41.07	5.26	Average	288	333
2	5460.00	59.60	74.00	-14.40	54.34	5.26	Peak	288	333
3	5470.00	60.60	68.20	-7.60	55.34	5.26	Peak	288	333
4	5850.00	72.73	78.20	-5.47	66.76	5.97	Peak	230	0
5	5860.00	61.45	68.20	-6.75	55.47	5.98	Peak	230	0
6	11380.00	48.58	54.00	-5.42	33.98	14.60	Average	265	343
7	11380.00	62.85	74.00	-11.15	48.25	14.60	Peak	265	333

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)

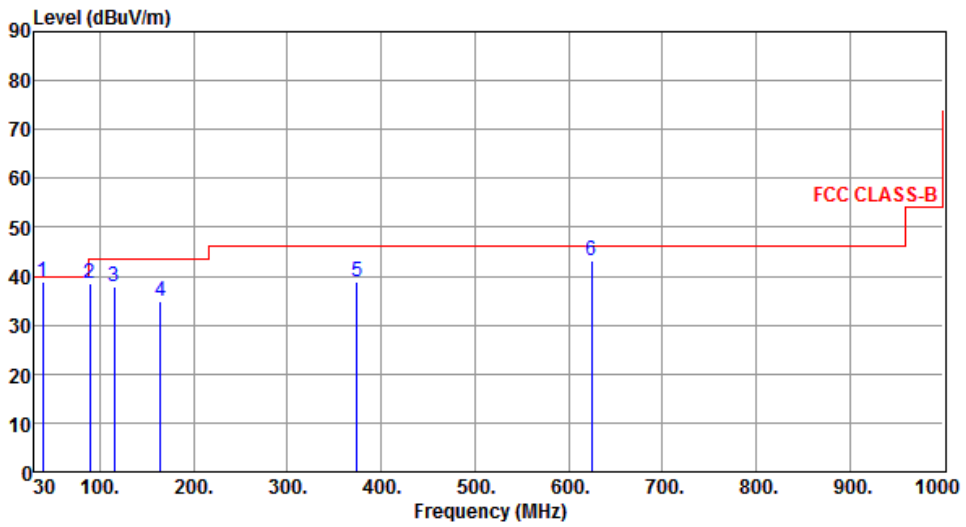
Modulation	VHT40	**Test Freq. (MHz)**	5550
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	98.87	35.63	43.50	-7.87	52.44	-16.81	Peak	---	---
2	194.90	40.05	43.50	-3.45	54.58	-14.53	Peak	---	---
3	223.03	35.79	46.00	-10.21	49.94	-14.15	Peak	---	---
4	533.43	38.24	46.00	-7.76	44.17	-5.93	Peak	---	---
5	624.61	43.14	46.00	-2.86	47.43	-4.29	QP	124	228
6	874.87	37.24	46.00	-8.76	38.16	-0.92	Peak	---	---

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

Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Vertical		

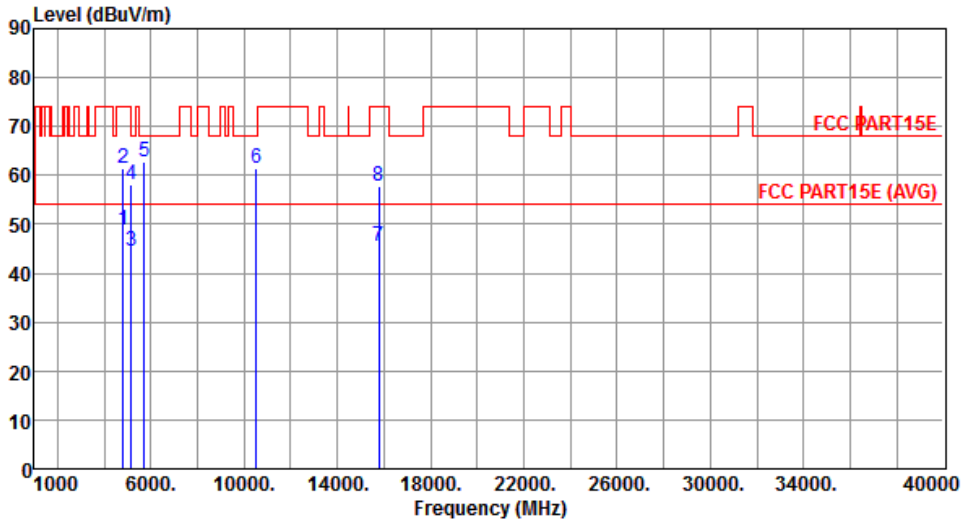


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	38.73	38.77	40.00	-1.23	50.75	-11.98	QP	100	165
2	89.17	38.58	43.50	-4.92	56.51	-17.93	Peak	---	---
3	115.36	37.76	43.50	-5.74	52.30	-14.54	Peak	---	---
4	164.83	34.73	43.50	-8.77	46.55	-11.82	Peak	---	---
5	374.35	38.75	46.00	-7.25	48.11	-9.36	Peak	---	---
6	624.61	43.14	46.00	-2.86	47.43	-4.29	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

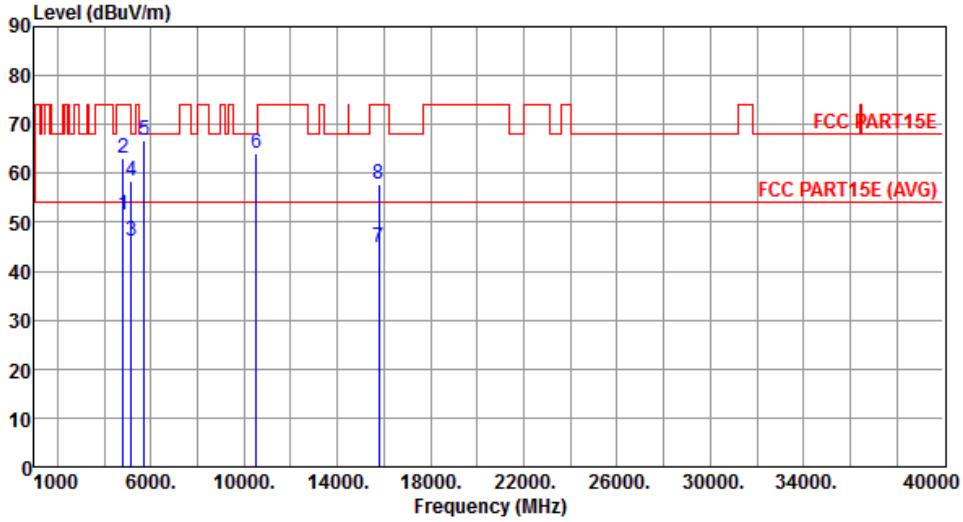
Modulation	VHT20	**Test Freq. (MHz)**	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4820.00	48.82	54.00	-5.18	44.56	4.26	Average	207	110
2	4820.00	61.40	74.00	-12.60	57.14	4.26	Peak	207	110
3	5150.00	44.45	54.00	-9.55	39.55	4.90	Average	174	180
4	5150.00	58.09	74.00	-15.91	53.19	4.90	Peak	174	180
5	5700.00	62.65	68.20	-5.55	56.99	5.66	Peak	201	168
6	10520.00	61.51	68.20	-6.69	47.56	13.95	Peak	242	2
7	15780.00	45.38	54.00	-8.62	30.12	15.26	Average	166	221
8	15780.00	57.86	74.00	-16.14	42.60	15.26	Peak	166	221

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).

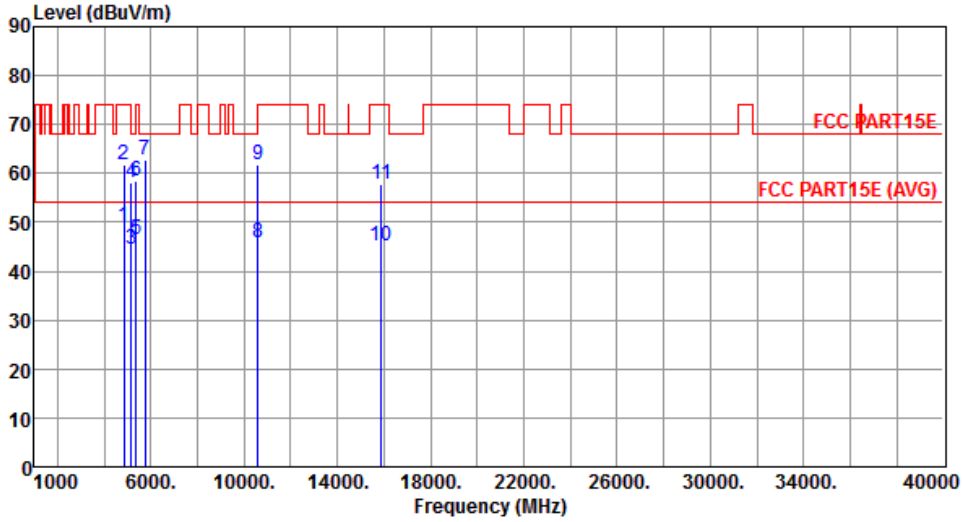
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4820.00	51.40	54.00	-2.60	47.14	4.26	Average	303	340
2	4820.00	63.13	74.00	-10.87	58.87	4.26	Peak	303	340
3	5150.00	46.22	54.00	-7.78	41.32	4.90	Average	179	339
4	5150.00	58.29	74.00	-15.71	53.39	4.90	Peak	179	339
5	5700.00	66.91	68.20	-1.29	61.25	5.66	Peak	186	339
6	10520.00	64.20	68.20	-4.00	50.25	13.95	Peak	177	0
7	15780.00	44.95	54.00	-9.05	29.69	15.26	Average	222	159
8	15780.00	57.82	74.00	-16.18	42.56	15.26	Peak	222	159

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).

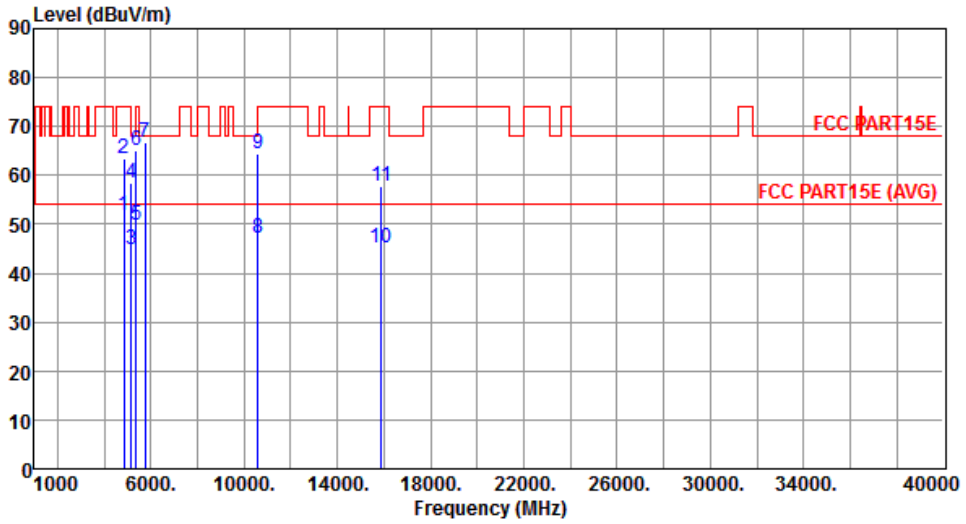
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4860.00	48.99	54.00	-5.01	44.64	4.35	Average	222	115
2	4860.00	61.65	74.00	-12.35	57.30	4.35	Peak	222	115
3	5150.00	44.58	54.00	-9.42	39.68	4.90	Average	188	165
4	5150.00	58.22	74.00	-15.78	53.32	4.90	Peak	188	165
5	5350.00	46.42	54.00	-7.58	41.29	5.13	Average	188	165
6	5350.00	58.46	74.00	-15.54	53.33	5.13	Peak	188	165
7	5740.00	62.90	68.20	-5.30	57.14	5.76	Peak	222	178
8	10600.00	45.88	54.00	-8.12	31.84	14.04	Average	239	33
9	10600.00	61.93	74.00	-12.07	47.89	14.04	Peak	239	33
10	15900.00	45.32	54.00	-8.68	30.28	15.04	Average	188	222
11	15900.00	57.71	74.00	-16.29	42.67	15.04	Peak	188	222

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).

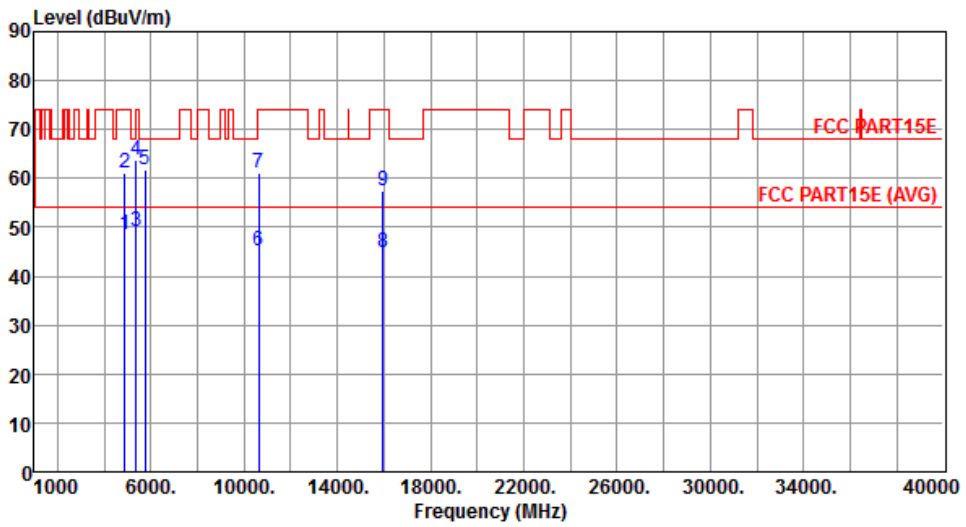
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4860.00	51.67	54.00	-2.33	47.32	4.35	Average	189	10
2	4860.00	63.35	74.00	-10.65	59.00	4.35	Peak	189	10
3	5150.00	44.79	54.00	-9.21	39.89	4.90	Average	199	188
4	5150.00	58.45	74.00	-15.55	53.55	4.90	Peak	199	188
5	5350.00	49.82	54.00	-4.18	44.69	5.13	Average	182	234
6	5350.00	65.01	74.00	-8.99	59.88	5.13	Peak	182	234
7	5740.00	66.63	68.20	-1.57	60.87	5.76	Peak	190	15
8	10600.00	47.21	54.00	-6.79	33.17	14.04	Average	177	28
9	10600.00	64.59	74.00	-9.41	50.55	14.04	Peak	177	28
10	15900.00	45.07	54.00	-8.93	30.03	15.04	Average	222	188
11	15900.00	57.73	74.00	-16.27	42.69	15.04	Peak	222	188

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).

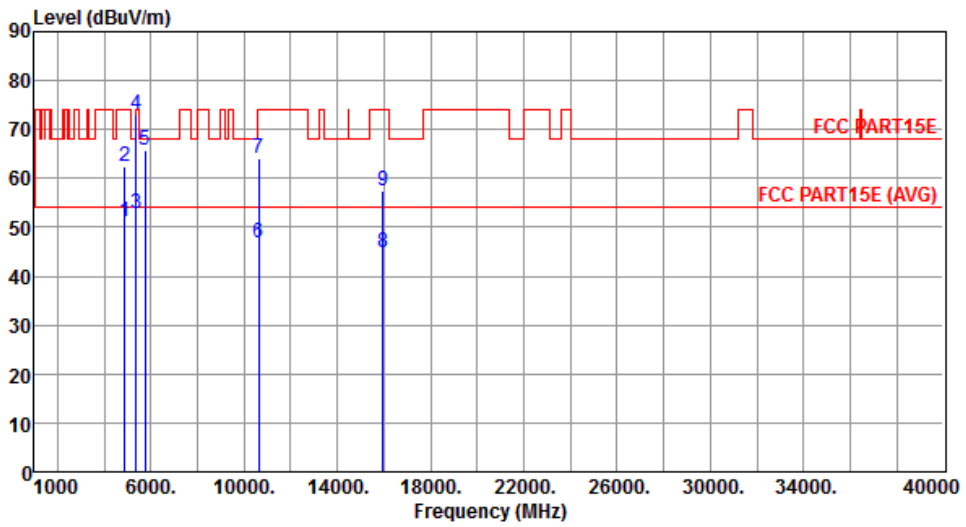
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4880.00	48.40	54.00	-5.60	43.99	4.41	Average	211	153
2	4880.00	61.20	74.00	-12.80	56.79	4.41	Peak	211	153
3	5350.00	49.10	54.00	-4.90	43.97	5.13	Average	189	155
4	5350.00	63.89	74.00	-10.11	58.76	5.13	Peak	189	155
5	5760.00	61.84	68.20	-6.36	56.05	5.79	Peak	211	168
6	10640.00	45.26	54.00	-8.74	31.17	14.09	Average	222	28
7	10640.00	61.03	74.00	-12.97	46.94	14.09	Peak	222	28
8	15960.00	44.71	54.00	-9.29	29.78	14.93	Average	166	111
9	15960.00	57.46	74.00	-16.54	42.53	14.93	Peak	166	111

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).

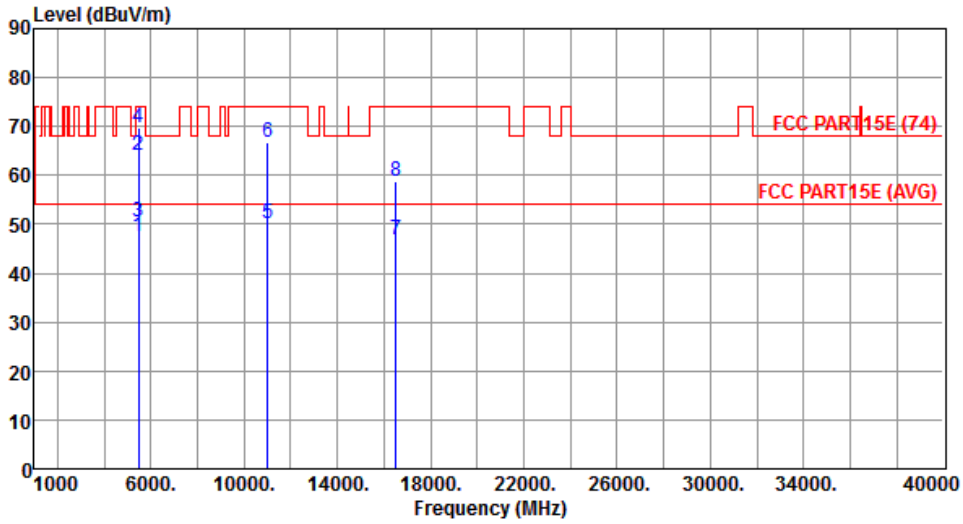
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4880.00	51.27	54.00	-2.73	46.86	4.41	Average	199	28
2	4880.00	62.46	74.00	-11.54	58.05	4.41	Peak	199	28
3	5350.00	52.79	54.00	-1.21	47.66	5.13	Average	194	277
4	5350.00	72.94	74.00	-1.06	67.81	5.13	Peak	194	277
5	5760.00	65.74	68.20	-2.46	59.95	5.79	Peak	168	14
6	10640.00	46.89	54.00	-7.11	32.80	14.09	Average	188	24
7	10640.00	63.96	74.00	-10.04	49.87	14.09	Peak	188	24
8	15960.00	44.77	54.00	-9.23	29.84	14.93	Average	233	150
9	15960.00	57.51	74.00	-16.49	42.58	14.93	Peak	233	150

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).

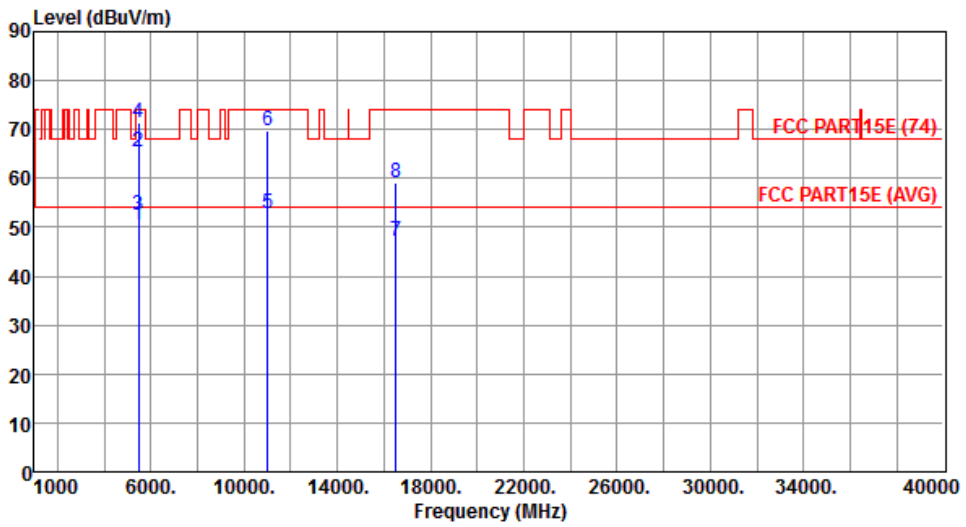
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.51	54.00	-6.49	42.25	5.26	Average	322	284
2	5460.00	64.23	74.00	-9.77	58.97	5.26	Peak	322	284
3	5470.00	50.49	54.00	-3.51	45.23	5.26	Average	322	284
4	5470.00	69.65	74.00	-4.35	64.39	5.26	Peak	322	284
5	11000.00	50.04	54.00	-3.96	35.55	14.49	Average	182	33
6	11000.00	66.75	74.00	-7.25	52.26	14.49	Peak	182	33
7	16500.00	46.79	54.00	-7.21	29.78	17.01	Average	223	176
8	16500.00	58.79	74.00	-15.21	41.78	17.01	Peak	223	176

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).

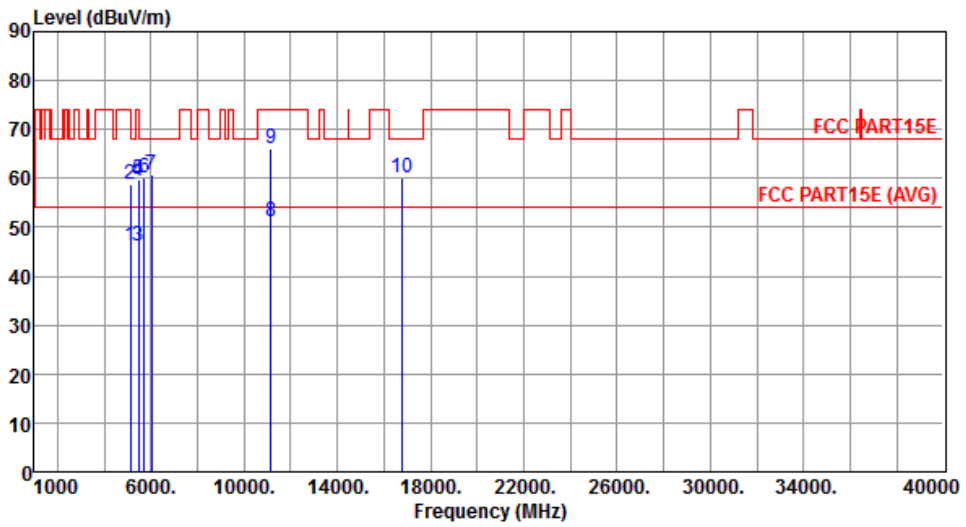
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	50.58	54.00	-3.42	45.32	5.26	Average	277	4
2	5460.00	65.57	74.00	-8.43	60.31	5.26	Peak	277	4
3	5470.00	52.50	54.00	-1.50	47.24	5.26	Average	277	4
4	5470.00	71.51	74.00	-2.49	66.25	5.26	Peak	277	4
5	11000.00	52.74	54.00	-1.26	38.25	14.49	Average	374	34
6	11000.00	69.84	74.00	-4.16	55.35	14.49	Peak	374	34
7	16500.00	47.16	54.00	-6.84	30.15	17.01	Average	211	196
8	16500.00	59.19	74.00	-14.81	42.18	17.01	Peak	211	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).

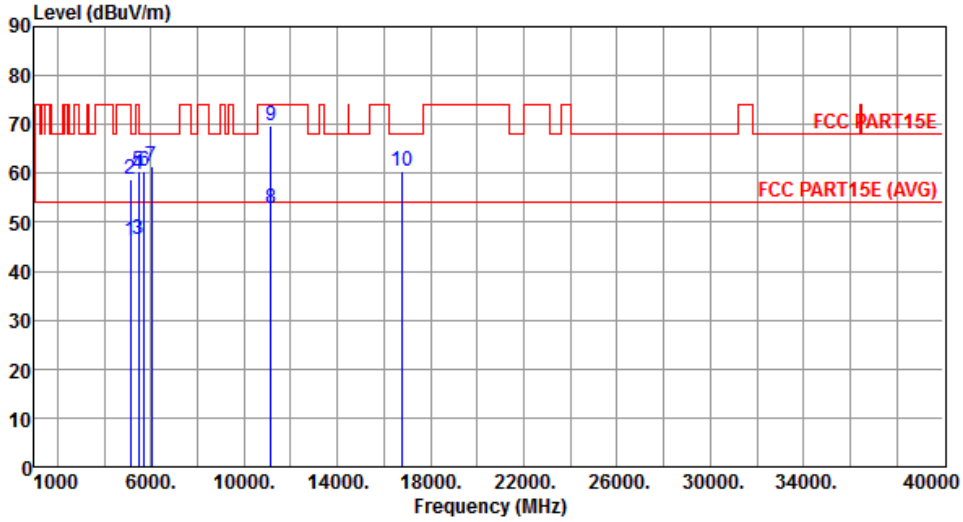
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5115.00	46.29	54.00	-7.71	41.43	4.86	Average	222	153
2	5115.00	58.67	74.00	-15.33	53.81	4.86	Peak	222	153
3	5460.00	46.11	54.00	-7.89	40.85	5.26	Average	338	294
4	5460.00	59.46	74.00	-14.54	54.20	5.26	Peak	338	294
5	5470.00	59.91	68.20	-8.29	54.65	5.26	Peak	338	294
6	5725.00	60.27	68.20	-7.93	54.56	5.71	Peak	338	294
7	6045.00	60.70	68.20	-7.50	54.39	6.31	Peak	166	211
8	11160.00	51.25	54.00	-2.75	36.71	14.54	Average	189	34
9	11160.00	66.02	74.00	-7.98	51.48	14.54	Peak	189	34
10	16740.00	59.99	68.20	-8.21	41.84	18.15	Peak	222	165

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).

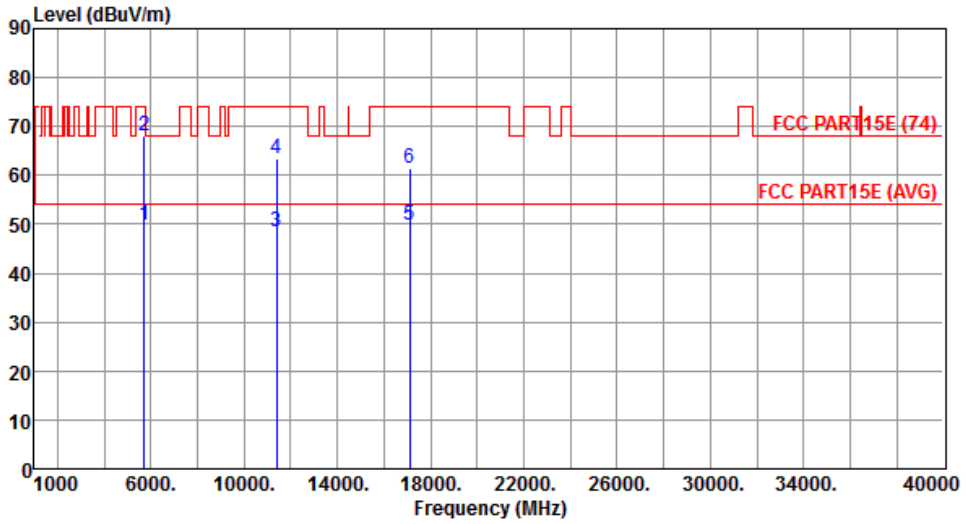
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5115.00	46.30	54.00	-7.70	41.44	4.86	Average	154	198
2	5115.00	58.73	74.00	-15.27	53.87	4.86	Peak	154	198
3	5460.00	46.44	54.00	-7.56	41.18	5.26	Average	155	202
4	5460.00	59.63	74.00	-14.37	54.37	5.26	Peak	155	202
5	5470.00	60.52	68.20	-7.68	55.26	5.26	Peak	155	202
6	5725.00	60.40	68.20	-7.80	54.69	5.71	Peak	155	266
7	6045.00	61.49	68.20	-6.71	55.18	6.31	Peak	155	202
8	11160.00	52.91	54.00	-1.09	38.37	14.54	Average	326	47
9	11160.00	69.70	74.00	-4.30	55.16	14.54	Peak	326	47
10	16740.00	60.50	68.20	-7.70	42.35	18.15	Peak	222	183

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).

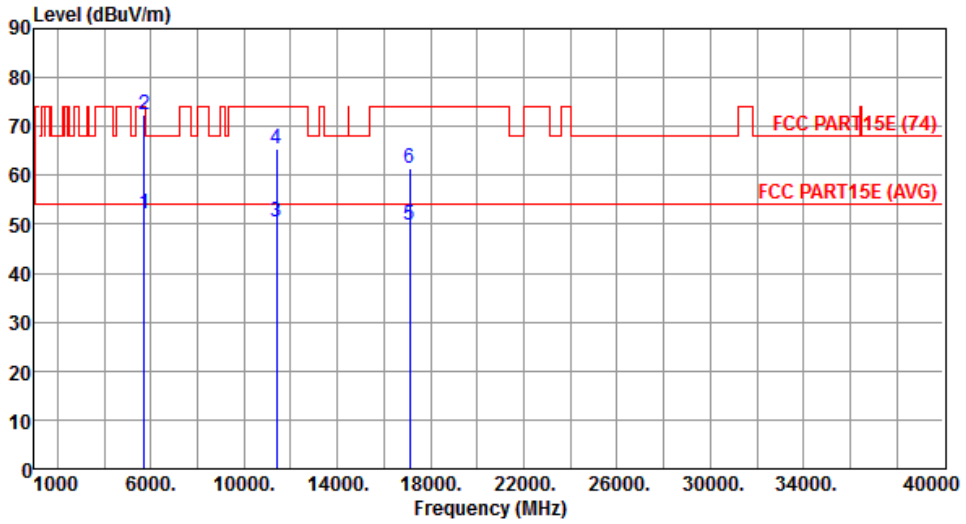
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	49.98	54.00	-4.02	44.27	5.71	Average	200	183
2	5725.00	68.07	74.00	-5.93	62.36	5.71	Peak	200	183
3	11400.00	48.45	54.00	-5.55	33.84	14.61	Average	188	222
4	11400.00	63.38	74.00	-10.62	48.77	14.61	Peak	188	222
5	17100.00	49.81	54.00	-4.19	29.89	19.92	Average	155	185
6	17100.00	61.50	74.00	-12.50	41.58	19.92	Peak	155	185

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).

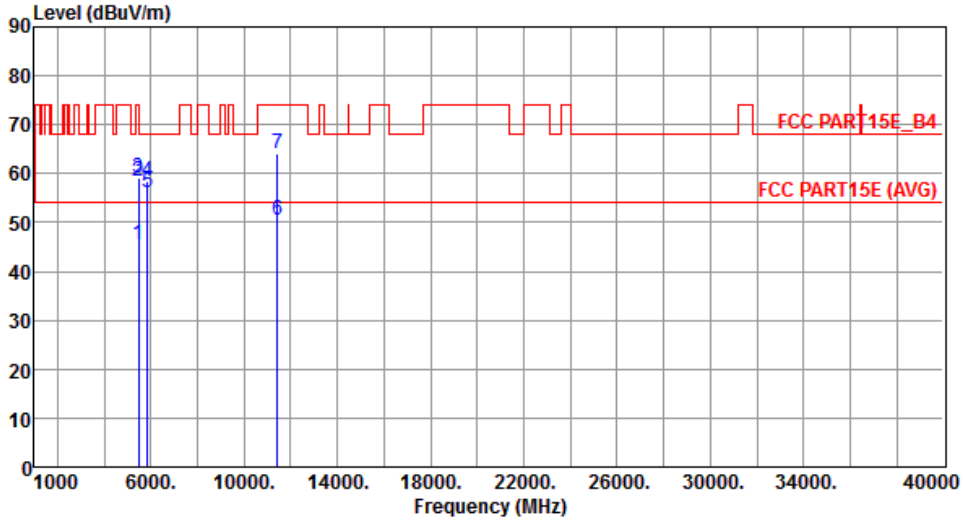
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.25	54.00	-1.75	46.54	5.71	Average	229	3
2	5725.00	72.55	74.00	-1.45	66.84	5.71	Peak	229	3
3	11400.00	50.38	54.00	-3.62	35.77	14.61	Average	338	43
4	11400.00	65.43	74.00	-8.57	50.82	14.61	Peak	338	43
5	17100.00	49.79	54.00	-4.21	29.87	19.92	Average	222	183
6	17100.00	61.51	74.00	-12.49	41.59	19.92	Peak	222	183

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).

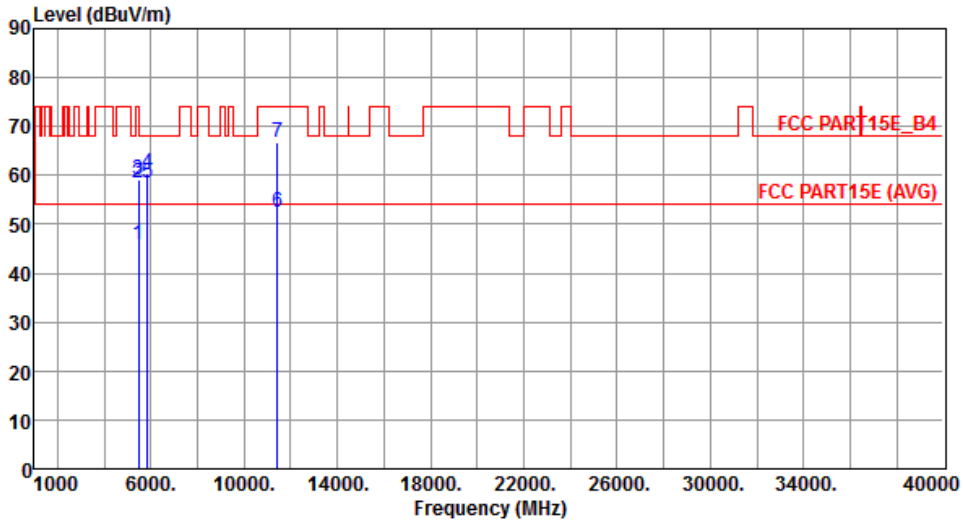
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.66	54.00	-8.34	40.40	5.26	Average	201	329
2	5460.00	58.52	74.00	-15.48	53.26	5.26	Peak	201	329
3	5470.00	59.17	68.20	-9.03	53.91	5.26	Peak	201	329
4	5850.00	58.36	78.20	-19.84	52.39	5.97	Peak	219	325
5	5860.00	56.26	68.20	-11.94	50.28	5.98	Peak	219	325
6	11440.00	50.57	54.00	-3.43	35.96	14.61	Average	161	325
7	11440.00	64.23	74.00	-9.77	49.62	14.61	Peak	161	325

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)	5720
Polarization	Vertical		

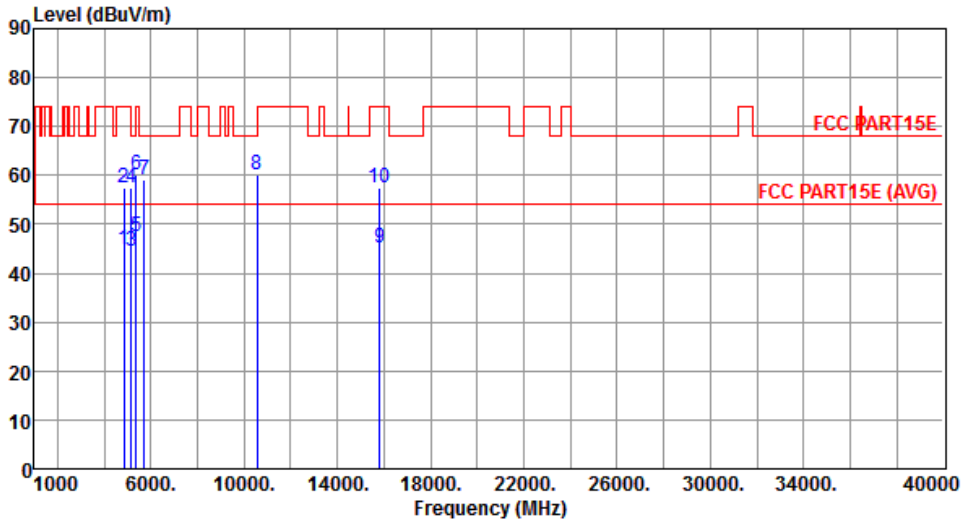


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.83	54.00	-8.17	40.57	5.26	Average	151	260
2	5460.00	58.52	74.00	-15.48	53.26	5.26	Peak	151	260
3	5470.00	59.24	68.20	-8.96	53.98	5.26	Peak	151	260
4	5850.00	60.36	78.20	-17.84	54.39	5.97	Peak	241	11
5	5860.00	58.36	68.20	-9.84	52.38	5.98	Peak	241	11
6	11440.00	52.61	54.00	-1.39	38.00	14.61	Average	173	258
7	11440.00	66.71	74.00	-7.29	52.10	14.61	Peak	173	258

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

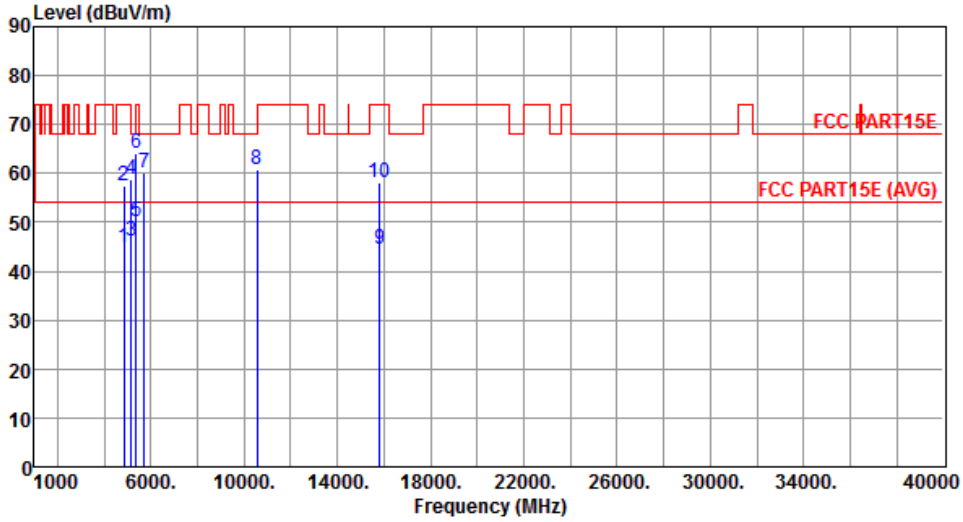
Modulation	VHT40	**Test Freq. (MHz)**	5270
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4830.00	44.86	54.00	-9.14	40.58	4.28	Average	216	337
2	4830.00	57.40	74.00	-16.60	53.12	4.28	Peak	216	337
3	5150.00	44.45	54.00	-9.55	39.55	4.90	Average	295	198
4	5150.00	57.50	74.00	-16.50	52.60	4.90	Peak	295	198
5	5350.00	47.62	54.00	-6.38	42.49	5.13	Average	295	198
6	5350.00	59.95	74.00	-14.05	54.82	5.13	Peak	295	198
7	5710.00	58.95	68.20	-9.25	53.27	5.68	Peak	154	218
8	10540.00	60.15	68.20	-8.05	46.17	13.98	Peak	292	21
9	15810.00	45.02	54.00	-8.98	29.80	15.22	Average	188	23
10	15810.00	57.61	74.00	-16.39	42.39	15.22	Peak	188	23

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

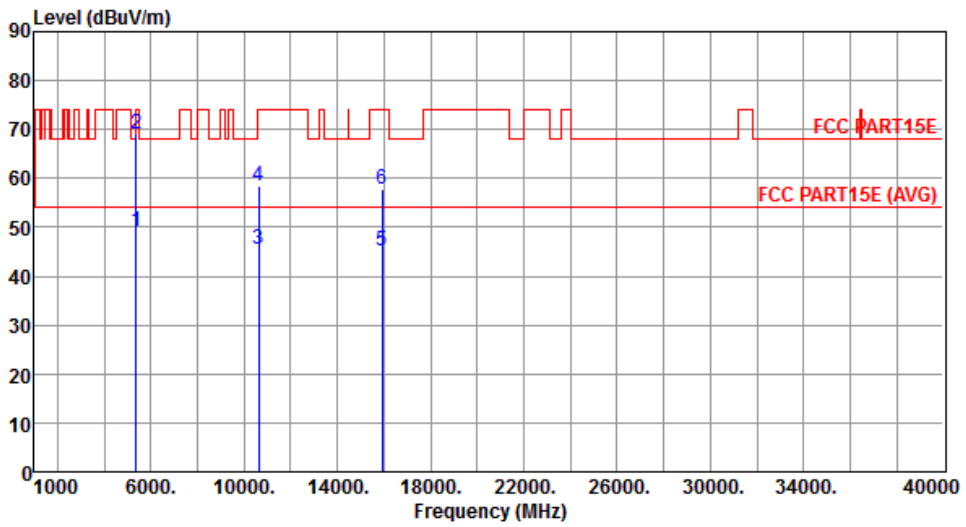
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4830.00	44.80	54.00	-9.20	40.52	4.28	Average	315	10
2	4830.00	57.47	74.00	-16.53	53.19	4.28	Peak	315	10
3	5150.00	46.06	54.00	-7.94	41.16	4.90	Average	315	10
4	5150.00	58.92	74.00	-15.08	54.02	4.90	Peak	315	10
5	5350.00	50.23	54.00	-3.77	45.10	5.13	Average	315	10
6	5350.00	64.04	74.00	-9.96	58.91	5.13	Peak	315	10
7	5710.00	60.25	68.20	-7.95	54.57	5.68	Peak	190	1
8	10540.00	60.89	68.20	-7.31	46.91	13.98	Peak	255	7
9	15810.00	44.48	54.00	-9.52	29.26	15.22	Average	213	90
10	15810.00	57.97	74.00	-16.03	42.75	15.22	Peak	213	90

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

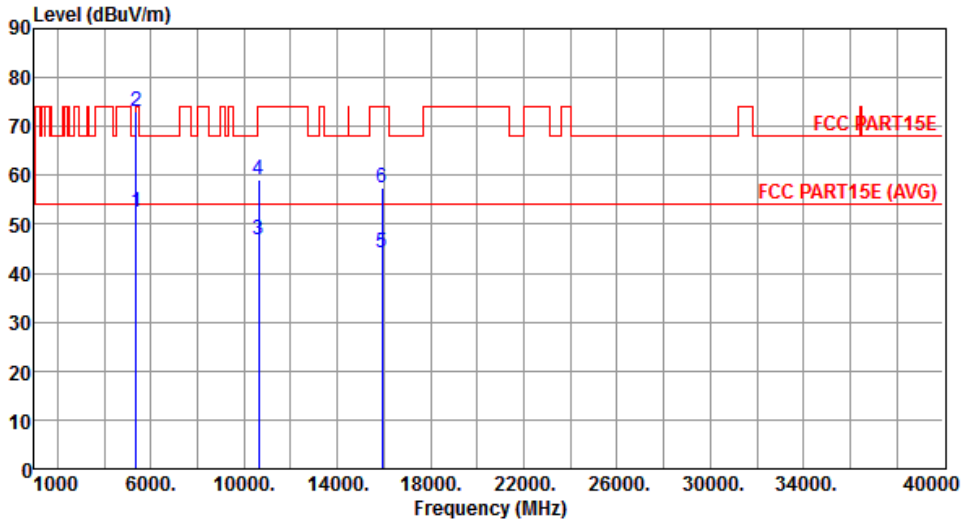
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	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	49.30	54.00	-4.70	44.17	5.13	Average	319	193
2	5350.00	69.05	74.00	-4.95	63.92	5.13	Peak	319	193
3	10620.00	45.55	54.00	-8.45	31.49	14.06	Average	295	18
4	10620.00	58.43	74.00	-15.57	44.37	14.06	Peak	295	18
5	15930.00	45.24	54.00	-8.76	30.26	14.98	Average	185	22
6	15930.00	57.80	74.00	-16.20	42.82	14.98	Peak	185	22

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

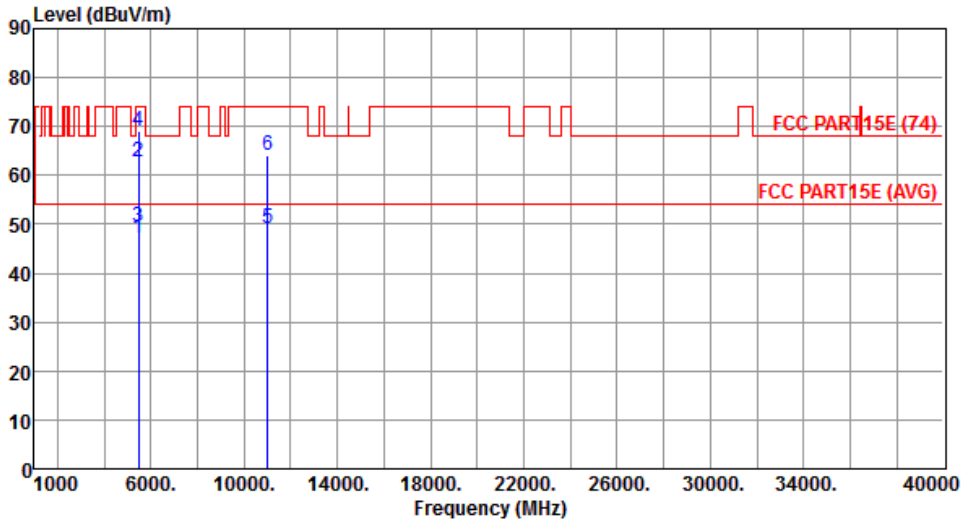
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	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	52.35	54.00	-1.65	47.22	5.13	Average	137	340
2	5350.00	72.96	74.00	-1.04	67.83	5.13	Peak	137	340
3	10620.00	46.96	54.00	-7.04	32.90	14.06	Average	247	11
4	10620.00	59.24	74.00	-14.76	45.18	14.06	Peak	247	11
5	15930.00	44.21	54.00	-9.79	29.23	14.98	Average	200	98
6	15930.00	57.59	74.00	-16.41	42.61	14.98	Peak	200	98

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

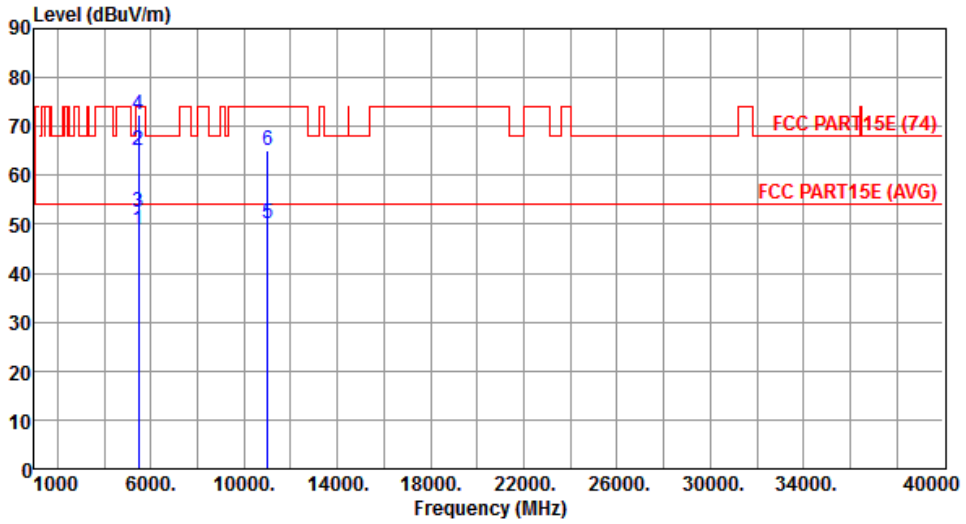
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.08	54.00	-6.92	41.82	5.26	Average	287	198
2	5460.00	62.81	74.00	-11.19	57.55	5.26	Peak	287	198
3	5470.00	49.33	54.00	-4.67	44.07	5.26	Average	287	198
4	5470.00	69.09	74.00	-4.91	63.83	5.26	Peak	287	198
5	11020.00	49.12	54.00	-4.88	34.63	14.49	Average	178	32
6	11020.00	63.93	74.00	-10.07	49.44	14.49	Peak	178	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).

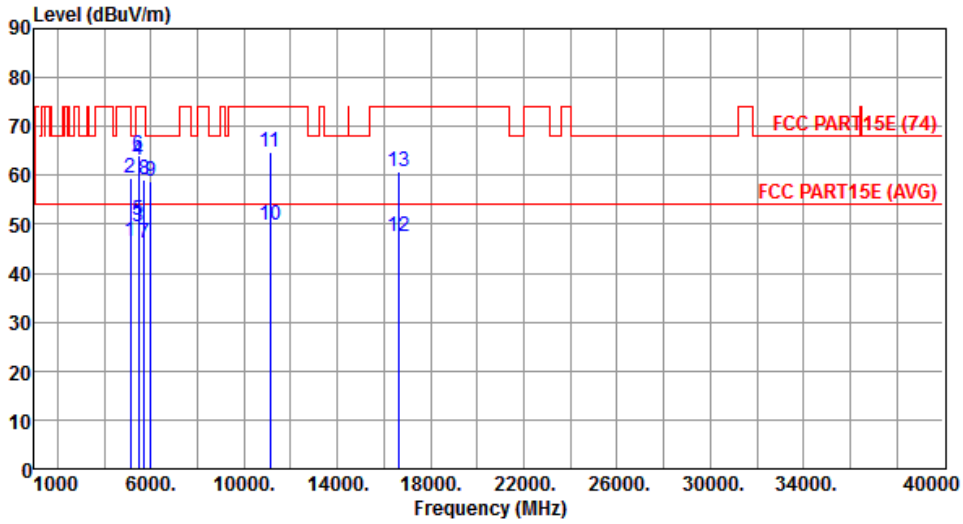
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.67	54.00	-5.33	43.41	5.26	Average	276	5
2	5460.00	65.21	74.00	-8.79	59.95	5.26	Peak	276	5
3	5470.00	52.52	54.00	-1.48	47.26	5.26	Average	276	5
4	5470.00	72.56	74.00	-1.44	67.30	5.26	Peak	276	5
5	11020.00	50.03	54.00	-3.97	35.54	14.49	Average	368	7
6	11020.00	65.10	74.00	-8.90	50.61	14.49	Peak	368	7

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

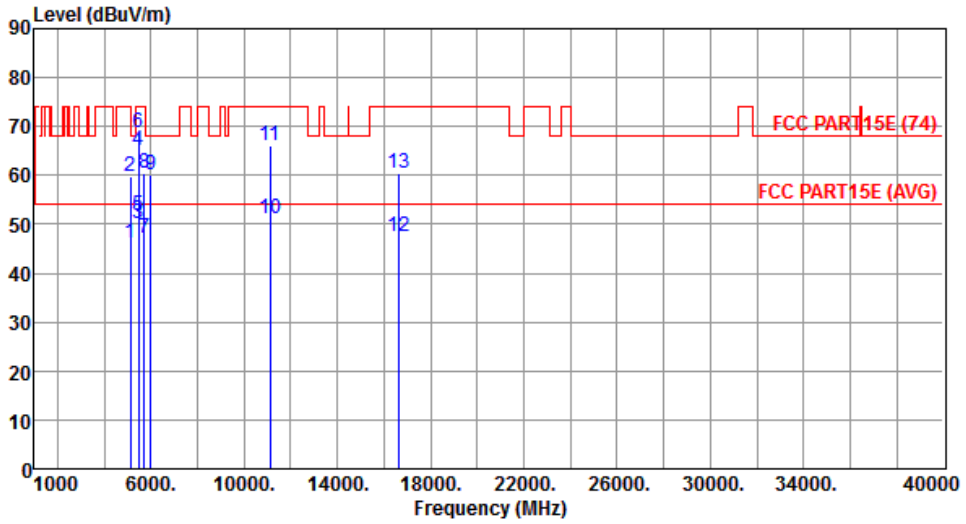
Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5110.00	46.35	54.00	-7.65	41.49	4.86	Average	322	228
2	5110.00	59.49	74.00	-14.51	54.63	4.86	Peak	322	228
3	5460.00	49.47	54.00	-4.53	44.21	5.26	Average	275	167
4	5460.00	63.11	74.00	-10.89	57.85	5.26	Peak	275	167
5	5470.00	50.88	54.00	-3.12	45.62	5.26	Average	275	167
6	5470.00	64.06	74.00	-9.94	58.80	5.26	Peak	275	167
7	5725.00	46.28	54.00	-7.72	40.57	5.71	Average	116	336
8	5725.00	58.98	74.00	-15.02	53.27	5.71	Peak	116	336
9	5990.00	58.79	68.20	-9.41	52.61	6.18	Peak	247	112
10	11100.00	49.85	54.00	-4.15	35.34	14.51	Average	182	34
11	11100.00	64.60	74.00	-9.40	50.09	14.51	Peak	182	34
12	16650.00	47.65	54.00	-6.35	29.93	17.72	Average	208	113
13	16650.00	60.67	74.00	-13.33	42.95	17.72	Peak	208	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).

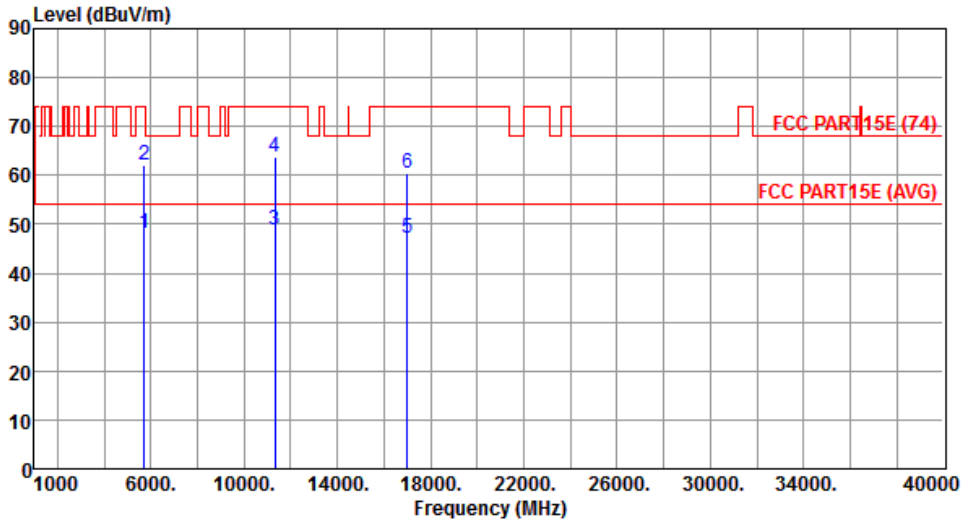
Modulation	VHT40	Test Freq. (MHz)	5550
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5110.00	46.29	54.00	-7.71	41.43	4.86	Average	163	321
2	5110.00	59.76	74.00	-14.24	54.90	4.86	Peak	163	321
3	5460.00	50.18	54.00	-3.82	44.92	5.26	Average	152	359
4	5460.00	65.18	74.00	-8.82	59.92	5.26	Peak	152	359
5	5470.00	51.66	54.00	-2.34	46.40	5.26	Average	152	359
6	5470.00	68.58	74.00	-5.42	63.32	5.26	Peak	152	359
7	5725.00	47.16	54.00	-6.84	41.45	5.71	Average	299	2
8	5725.00	60.35	74.00	-13.65	54.64	5.71	Peak	299	2
9	5990.00	60.08	68.20	-8.12	53.90	6.18	Peak	218	109
10	11100.00	51.20	54.00	-2.80	36.69	14.51	Average	373	4
11	11100.00	65.94	74.00	-8.06	51.43	14.51	Peak	373	4
12	16650.00	47.50	54.00	-6.50	29.78	17.72	Average	204	83
13	16650.00	60.45	74.00	-13.55	42.73	17.72	Peak	204	83

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

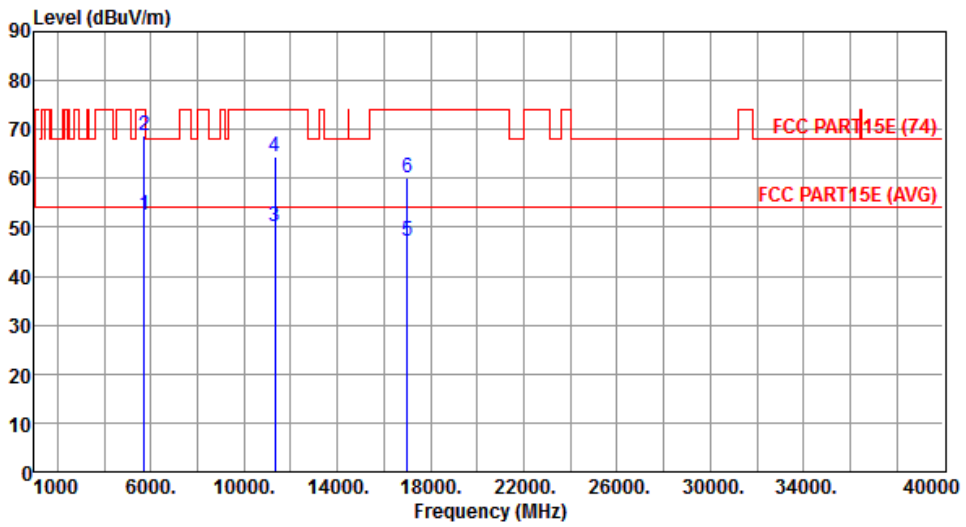
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	48.08	54.00	-5.92	42.37	5.71	Average	163	327
2	5725.00	62.05	74.00	-11.95	56.34	5.71	Peak	163	327
3	11340.00	48.98	54.00	-5.02	34.40	14.58	Average	185	31
4	11340.00	63.64	74.00	-10.36	49.06	14.58	Peak	185	31
5	17010.00	47.28	54.00	-6.72	27.84	19.44	Average	204	119
6	17010.00	60.33	74.00	-13.67	40.89	19.44	Peak	204	119

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

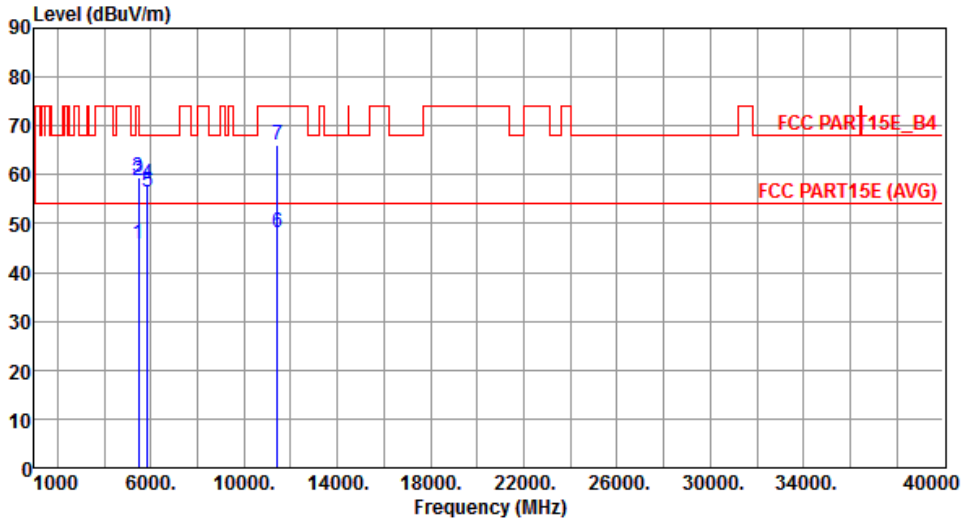
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.45	54.00	-1.55	46.74	5.71	Average	204	356
2	5725.00	68.64	74.00	-5.36	62.93	5.71	Peak	204	356
3	11340.00	50.06	54.00	-3.94	35.48	14.58	Average	379	18
4	11340.00	64.57	74.00	-9.43	49.99	14.58	Peak	379	18
5	17010.00	47.18	54.00	-6.82	27.74	19.44	Average	208	78
6	17010.00	60.24	74.00	-13.76	40.80	19.44	Peak	208	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).

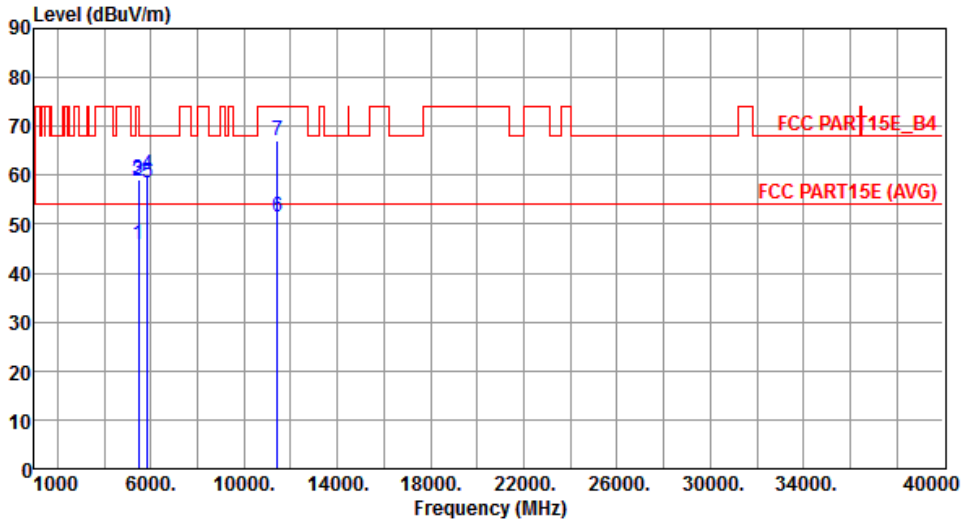
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.76	54.00	-8.24	40.50	5.26	Average	199	172
2	5460.00	58.93	74.00	-15.07	53.67	5.26	Peak	199	172
3	5470.00	59.38	68.20	-8.82	54.12	5.26	Peak	199	172
4	5850.00	58.13	78.20	-20.07	52.16	5.97	Peak	242	236
5	5860.00	56.32	68.20	-11.88	50.34	5.98	Peak	242	236
6	11420.00	48.32	54.00	-5.68	33.71	14.61	Average	262	318
7	11420.00	66.10	74.00	-7.90	51.49	14.61	Peak	262	318

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)	5710
Polarization	Vertical		

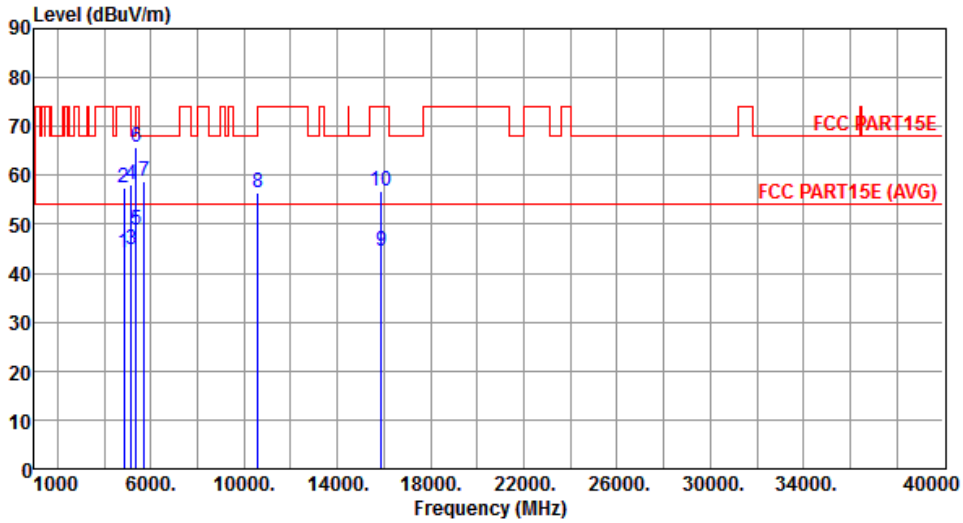


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.81	54.00	-8.19	40.55	5.26	Average	175	255
2	5460.00	58.87	74.00	-15.13	53.61	5.26	Peak	175	255
3	5470.00	59.20	68.20	-9.00	53.94	5.26	Peak	175	255
4	5850.00	60.03	78.20	-18.17	54.06	5.97	Peak	230	8
5	5860.00	58.36	68.20	-9.84	52.38	5.98	Peak	230	8
6	11420.00	51.55	54.00	-2.45	36.94	14.61	Average	272	32
7	11420.00	67.02	74.00	-6.98	52.41	14.61	Peak	272	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).

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

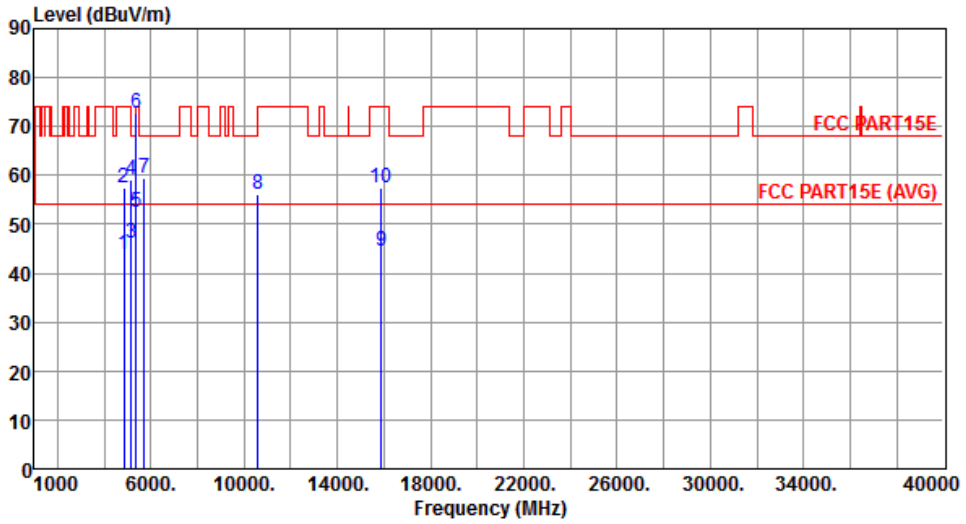
Modulation	VHT80	**Test Freq. (MHz)**	5290
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4850.00	44.33	54.00	-9.67	39.99	4.34	Average	225	187
2	4850.00	57.61	74.00	-16.39	53.27	4.34	Peak	225	187
3	5150.00	44.72	54.00	-9.28	39.82	4.90	Average	214	40
4	5150.00	58.20	74.00	-15.80	53.30	4.90	Peak	214	40
5	5350.00	48.75	54.00	-5.25	43.62	5.13	Average	214	40
6	5350.00	65.85	74.00	-8.15	60.72	5.13	Peak	214	40
7	5730.00	58.87	68.20	-9.33	53.14	5.73	Peak	262	185
8	10580.00	56.58	68.20	-11.62	42.56	14.02	Peak	319	217
9	15870.00	44.66	54.00	-9.34	29.56	15.10	Average	100	153
10	15870.00	56.75	74.00	-17.25	41.65	15.10	Peak	100	153

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

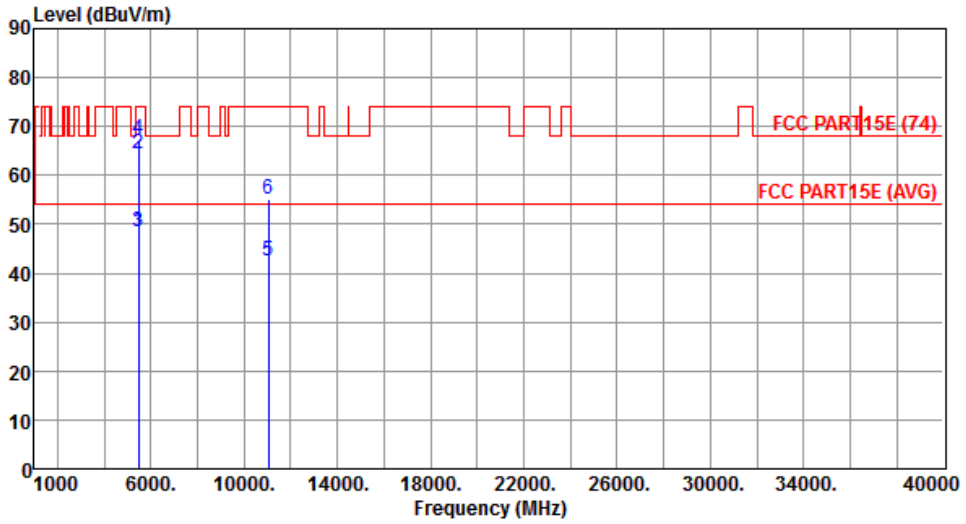
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4850.00	43.88	54.00	-10.12	39.54	4.34	Average	302	74
2	4850.00	57.31	74.00	-16.69	52.97	4.34	Peak	302	74
3	5150.00	46.13	54.00	-7.87	41.23	4.90	Average	183	177
4	5150.00	58.95	74.00	-15.05	54.05	4.90	Peak	183	177
5	5350.00	52.39	54.00	-1.61	47.26	5.13	Average	197	341
6	5350.00	72.58	74.00	-1.42	67.45	5.13	Peak	197	341
7	5730.00	59.47	68.20	-8.73	53.74	5.73	Peak	207	125
8	10580.00	56.00	68.20	-12.20	41.98	14.02	Peak	268	103
9	15870.00	44.53	54.00	-9.47	29.43	15.10	Average	228	153
10	15870.00	57.48	74.00	-16.52	42.38	15.10	Peak	228	153

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

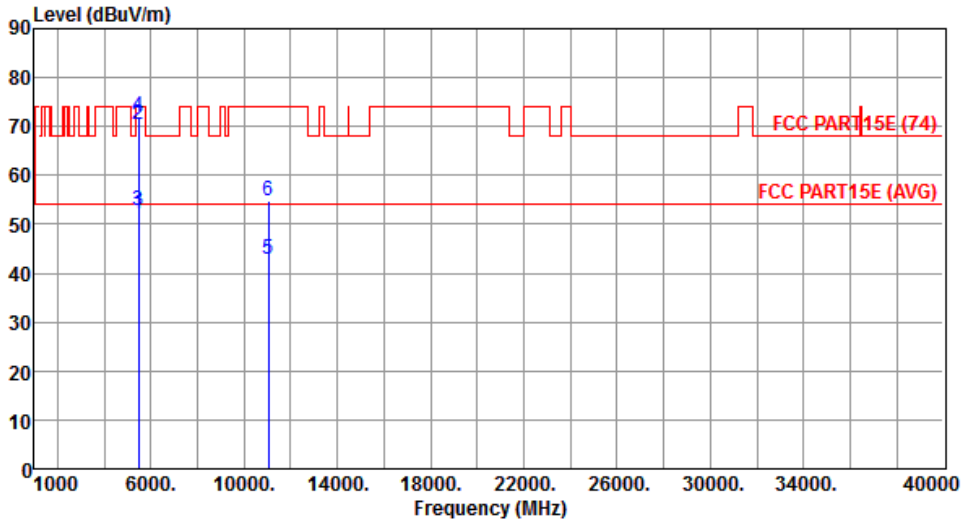
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.35	54.00	-5.65	43.09	5.26	Average	284	196
2	5460.00	64.36	74.00	-9.64	59.10	5.26	Peak	284	196
3	5470.00	48.59	54.00	-5.41	43.33	5.26	Average	284	196
4	5470.00	67.57	74.00	-6.43	62.31	5.26	Peak	284	196
5	11060.00	42.41	54.00	-11.59	27.90	14.51	Average	248	75
6	11060.00	55.20	74.00	-18.80	40.69	14.51	Peak	248	75

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

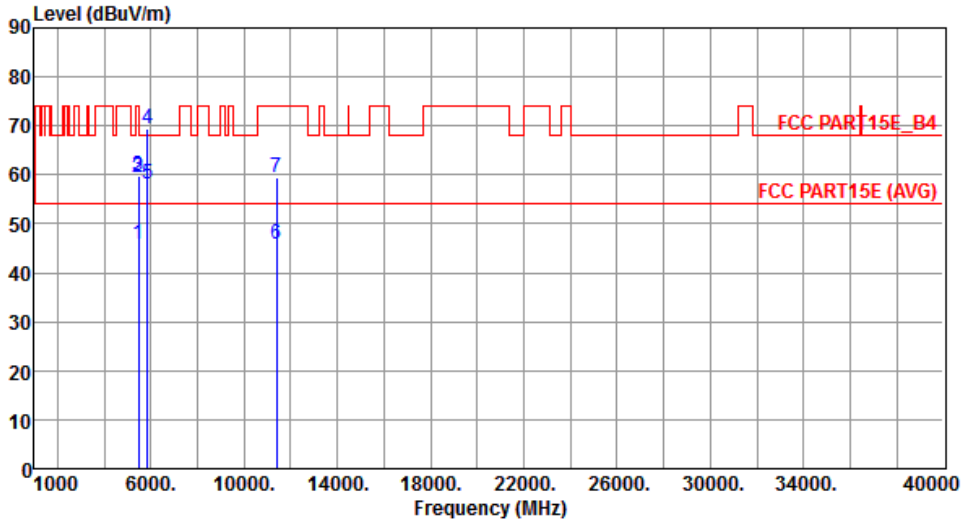
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	52.02	54.00	-1.98	46.76	5.26	Average	219	357
2	5460.00	70.48	74.00	-3.52	65.22	5.26	Peak	219	357
3	5470.00	52.94	54.00	-1.06	47.68	5.26	Average	219	357
4	5470.00	72.16	74.00	-1.84	66.90	5.26	Peak	219	357
5	11060.00	42.96	54.00	-11.04	28.45	14.51	Average	299	334
6	11060.00	54.85	74.00	-19.15	40.34	14.51	Peak	299	334

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).

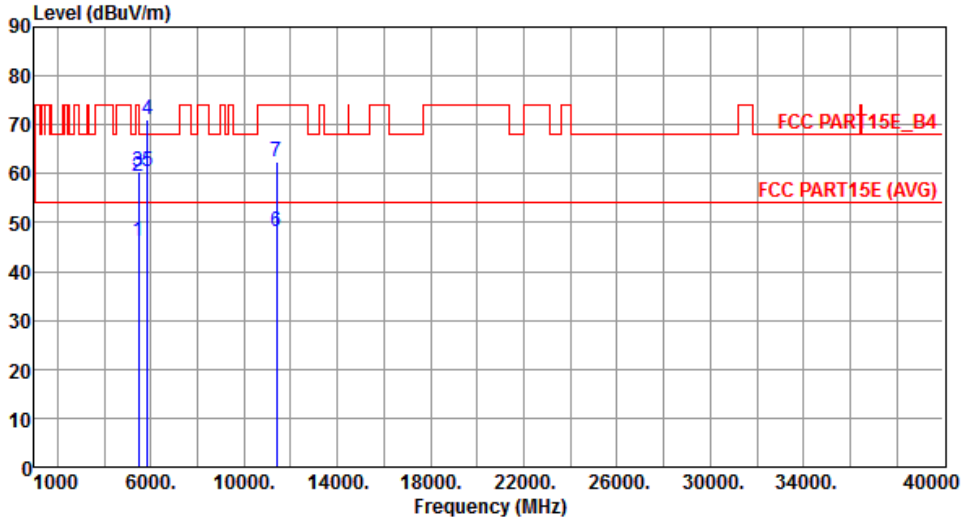
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.94	54.00	-8.06	40.68	5.26	Average	265	167
2	5460.00	59.37	74.00	-14.63	54.11	5.26	Peak	265	167
3	5470.00	59.92	68.20	-8.28	54.66	5.26	Peak	265	167
4	5850.00	69.56	78.20	-8.64	63.59	5.97	Peak	261	236
5	5860.00	58.13	68.20	-10.07	52.15	5.98	Peak	261	236
6	11380.00	45.74	54.00	-8.26	31.14	14.60	Average	267	319
7	11380.00	59.49	74.00	-14.51	44.89	14.60	Peak	267	319

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)	5690
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.23	54.00	-7.77	40.97	5.26	Average	267	349
2	5460.00	59.51	74.00	-14.49	54.25	5.26	Peak	267	349
3	5470.00	60.52	68.20	-7.68	55.26	5.26	Peak	267	349
4	5850.00	71.23	78.20	-6.97	65.26	5.97	Peak	225	13
5	5860.00	60.36	68.20	-7.84	54.38	5.98	Peak	225	13
6	11380.00	48.16	54.00	-5.84	33.56	14.60	Average	290	39
7	11380.00	62.47	74.00	-11.53	47.87	14.60	Peak	290	39

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

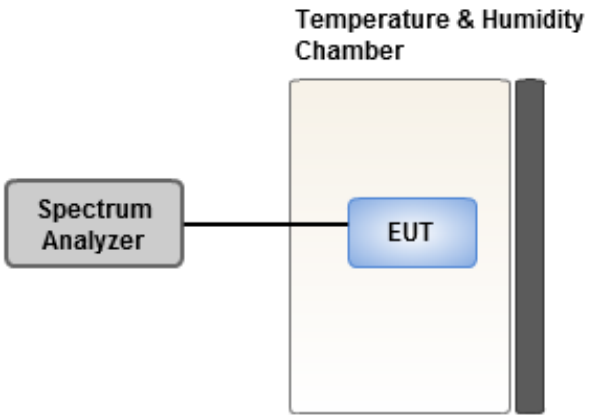
3.6.1 Limit of Frequency Stability

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: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	2.17	2.47	2.26	2.82
T20°CVmin	1.81	2.14	2.50	1.72
T50°CVnom	4.50	4.66	4.82	4.62
T40°CVnom	1.77	2.24	1.39	2.25
T30°CVnom	2.33	2.59	2.76	2.94
T20°CVnom	2.84	2.96	2.71	2.97
T10°CVnom	3.26	3.13	3.35	3.39
T0°CVnom	3.53	4.09	3.74	4.16
T-10°CVnom	1.84	2.07	2.38	2.21
T-20°CVnom	1.53	1.57	2.23	1.60
T-30°CVnom	1.36	1.51	1.38	1.67
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 (EMC and Wireless Communication Laboratory), 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 District. 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 District, Tao Yuan City 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 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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