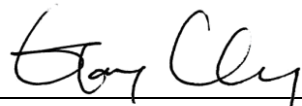


FCC C2PC Test Report

FCC ID : NKR-DNUA134
Equipment : 802.11n a/b/g USB dongle
Model No. : DNUA-134
Brand Name : WNC
Applicant : Wistron Neweb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park,
Hsinchu 308,Taiwan,R.O.C.
Standard : 47 CFR FCC Part 15.407
Received Date : Aug. 02, 2013
Tested Date : Dec. 08 ~ Dec. 10, 2013

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

Approved & Reviewed by:



Gary Chang / Manager



Testing Laboratory
2732

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Release Record

Report No.	Version	Description	Issued Date
FR380201-02AN	Rev. 01	Initial issue	Jan. 20, 2014

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.154MHz 45.93 (Margin -9.85dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5725.00MHz 73.00 (Margin -1.00dB) – PK	Pass

1 General Description

1.1 Information

This report is prepared for FCC class II permissive change. No hardware and software is change for the device. The difference compared with original design is adding plastics housing to change type from modular to non-modular then also modifying product name for the type change. In this report, conducted emission and radiated emission tests had been re-tested and only its data was recorded in the following sections.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250 5250-5350 5470-5725	a	5180-5240 5260-5320 5500-5700	36-48 [4] 52-64 [4] 100-140 [8]	2	6-54 Mbps
5150-5250 5250-5350 5470-5725	n (HT20)	5180-5240 5260-5320 5500-5700	36-48 [4] 52-64 [4] 100-140 [8]	2	MCS 0-15
5150-5250 5250-5350 5470-5725	n (HT40)	5190-5230 5270-5310 5510-5670	38-46 [2] 54-62 [2] 102-134 [3]	2	MCS 0-15

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

1.1.2 Antenna Details

Ant. No.	Type	Operating Frequency (MHz) / Gain (dBi)				Connector
		5150~5250	5250~5350	5470~5725	5725~5850	
1	Printed	2.55	3.12	3.22	2.51	U.FL
2	Printed	2.44	2.23	2.98	3.06	U.FL

1.1.3 EUT Operational Condition

Power Supply Type	5Vdc from Host
-------------------	----------------

1.1.4 Accessories

N/A

1.1.5 Channel List

Frequency band (MHz)		5150~5725	
802.11 a / n HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	134	5670
64	5320	---	---
100	5500	---	---
104	5520	---	---
108	5540	---	---
112	5560	---	---
116	5580	---	---
132	5660	---	---
136	5680	---	---
140	5700	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	ART2-GUI V2.3
Duty Cycle Of Test Signal (%)	98.60% - IEEE 802.11a 98.87% - IEEE 802.11n (HT20) 98.19% - IEEE 802.11n (HT40)
Duty Factor	0.06 - IEEE 802.11a 0.05 - IEEE 802.11n (HT20) 0.08 - IEEE 802.11n (HT40)

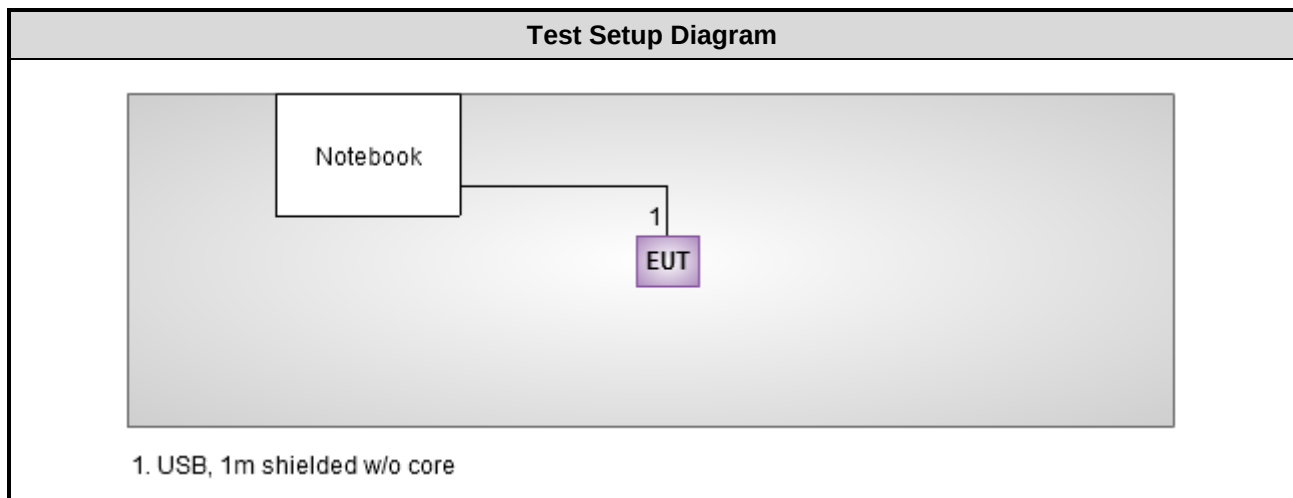
1.1.7 Power Setting

Channel	Frequency(MHz)	Modulation Mode		
		11a	HT20	HT40
CH 36	5180	12.5	12.5	---
CH 40	5200	13	13	---
CH 48	5240	13	13.5	---
CH 52	5260	20	20.5	---
CH 60	5300	20	20.5	---
CH 64	5320	18.5	18.5	---
CH 100	5500	16.5	16.5	---
CH 116	5580	20.5	20.5	---
CH 140	5700	14.5	13.5	---
CH 38	5190	---	---	13
CH 46	5230	---	---	14
CH 54	5270	---	---	20
CH 62	5310	---	---	14
CH 102	5510	---	---	12.5
CH 110	5550	---	---	20.5
CH 134	5670	---	---	16

1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E6430	---	DoC	USB 1m shielded cable w/o core.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 28, 2013	Jan. 27, 2014
Receiver	R&S	ESR3	101657	Jan. 30, 2013	Jan. 29, 2014
Bilog Antenna	Schwarzbeck	VULB9168	VULB9168-524	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1095	Jan. 29, 2013	Jan. 28, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Amplifier	Burgeon	BPA-530	100218	Dec. 09, 2013	Dec. 08, 2014
Amplifier	Agilent	83017A	MY39501309	Dec. 09, 2013	Dec. 08, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-003	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-004	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	060608	N/A	N/A
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	EM	EM18G40G	060572	Jun. 20, 2013	Jun. 19, 2015
Note: Calibration Interval of instruments listed above is two year.					

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. 15, 2013	Oct. 14, 2014
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014
ISN	TESEQ	ISN T800	34406	Apr. 08, 2013	Apr. 07, 2014
ISN	TESEQ	ISN T200A	30494	Apr. 09, 2013	Apr. 08, 2014
ISN	TESEQ	ISN ST08	22589	Jan. 24, 2013	Jan. 23, 2014
RF Current Probe	FCC	F-33-4	121630	Nov. 29, 2013	Nov. 28, 2014
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 24, 2013	Apr. 23, 2014
ESH3-Z6 V-Network(+)	R&S	ESH3-Z6	100920	Nov. 29, 2013	Nov. 28, 2014
ESH3-Z6 V-Network(-)	R&S	ESH3-Z6	100951	Jan. 30, 2013	Jan. 29, 2014
Two-Line V-Network	R&S	ENV216	101579	Jan. 07, 2013	Jan. 06, 2014
50 ohm terminal	NA	50	01	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	02	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

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

47 CFR FCC Part 15.407

ANSI C63.10-2009

FCC KDB 412172

FCC KDB 789033 D01 General UNII Test procedures v01r03

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

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
AC conducted emission	±2.43 dB
Radiated emission	±2.49 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 61%	Skys Huang
Radiated Emissions	03CH02-WS	20°C / 64%	Anderson Hong

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-2

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data rate (Mbps) / MCS	Test Configuration
Conducted Emissions	HT40	5580	MCS 0	---
Radiated Emissions <1GHz	HT40	5580	MCS 0	---
Radiated Emissions >1GHz	11a	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	6 Mbps	---
	HT20	5180 / 5200 / 5240 / 5260 / 5300 / 5320 / 5500 / 5580 / 5700	MCS 0	---
	HT40	5190 / 5230 / 5270 / 5310 / 5510 / 5550 / 5670	MCS 0	---
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.				

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

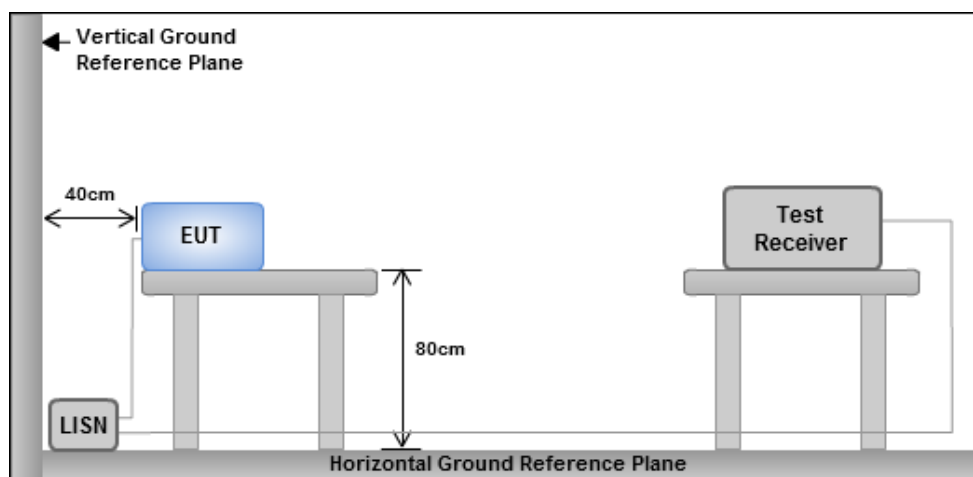
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

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

3.1.3 Test Setup

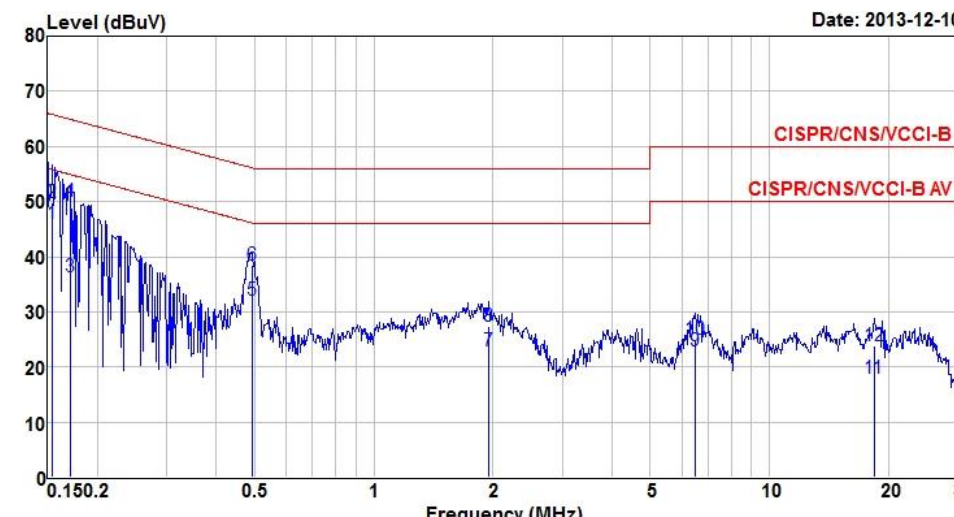


- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Modulation Mode	11a	Test Freq. (MHz)	5580
Power Phase	Line		

Level (dBUV)



Frequency (MHz)

Date: 2013-12-10

CISPR/CNS/VCCI-B

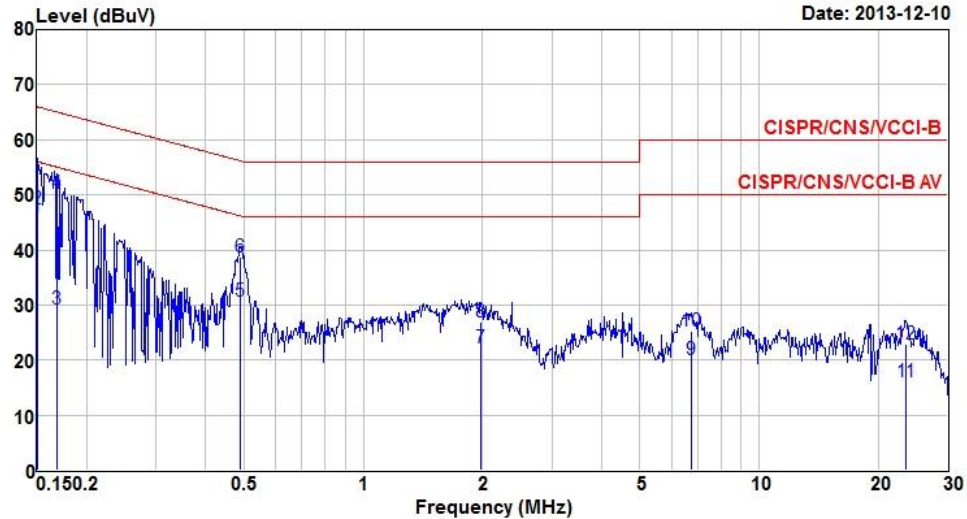
CISPR/CNS/VCCI-B AV

	Freq	Level	Limit	Over	Read	LISN	cable		
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark	
			dBuV	dB	dBuV	dB	dB		
1	*	0.154	45.93	55.78	-9.85	45.46	0.40	0.07	Average
2		0.154	49.90	65.78	-15.88	49.43	0.40	0.07	QP
3		0.171	36.36	54.90	-18.54	35.85	0.40	0.11	Average
4		0.171	50.09	64.90	-14.81	49.58	0.40	0.11	QP
5		0.491	32.12	46.14	-14.02	31.68	0.39	0.05	Average
6		0.491	38.49	56.14	-17.65	38.05	0.39	0.05	QP
7		1.949	22.88	46.00	-23.12	22.29	0.43	0.16	Average
8		1.949	27.30	56.00	-28.70	26.71	0.43	0.16	QP
9		6.488	22.86	50.00	-27.14	22.19	0.50	0.17	Average
10		6.488	25.01	60.00	-34.99	24.34	0.50	0.17	QP
11		18.426	17.87	50.00	-32.13	17.15	0.55	0.17	Average
12		18.426	23.74	60.00	-36.26	23.02	0.55	0.17	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dBUV) = Limit Line (dBUV) – Level (dBUV).

Modulation Mode	11a	Test Freq. (MHz)	5580
Power Phase	Neutral		



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.151	45.95	55.96	-10.01	45.41	0.48	0.06	Average
2	0.151	47.55	65.96	-18.41	47.01	0.48	0.06	QP
3	0.169	29.29	55.03	-25.74	28.70	0.48	0.11	Average
4	0.169	50.36	65.03	-14.67	49.77	0.48	0.11	QP
5	0.490	30.61	46.17	-15.56	30.09	0.47	0.05	Average
6	0.490	38.64	56.17	-17.53	38.12	0.47	0.05	QP
7	1.980	22.22	46.00	-23.78	21.56	0.50	0.16	Average
8	1.980	26.81	56.00	-29.19	26.15	0.50	0.16	QP
9	6.733	20.00	50.00	-30.00	19.29	0.54	0.17	Average
10	6.733	25.30	60.00	-34.70	24.59	0.54	0.17	QP
11	23.511	16.05	50.00	-33.95	15.10	0.54	0.41	Average
12	23.511	22.79	60.00	-37.21	21.84	0.54	0.41	QP

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

3.2 Transmitter Radiated and Band Edge Emissions

3.2.1 Limit of Transmitter Radiated and Band Edge Emissions

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

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

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

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

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

3.2.2 Test Procedures

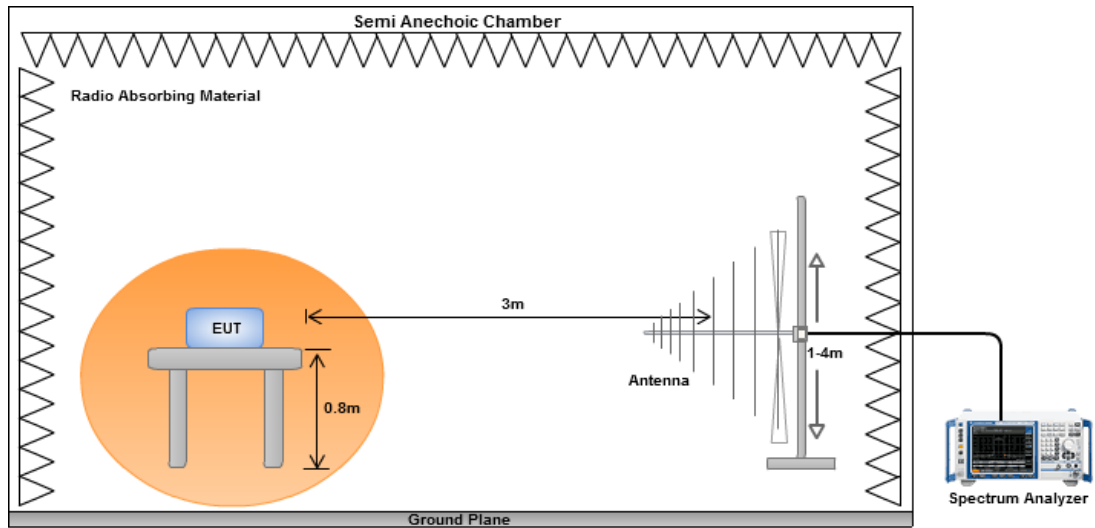
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
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:

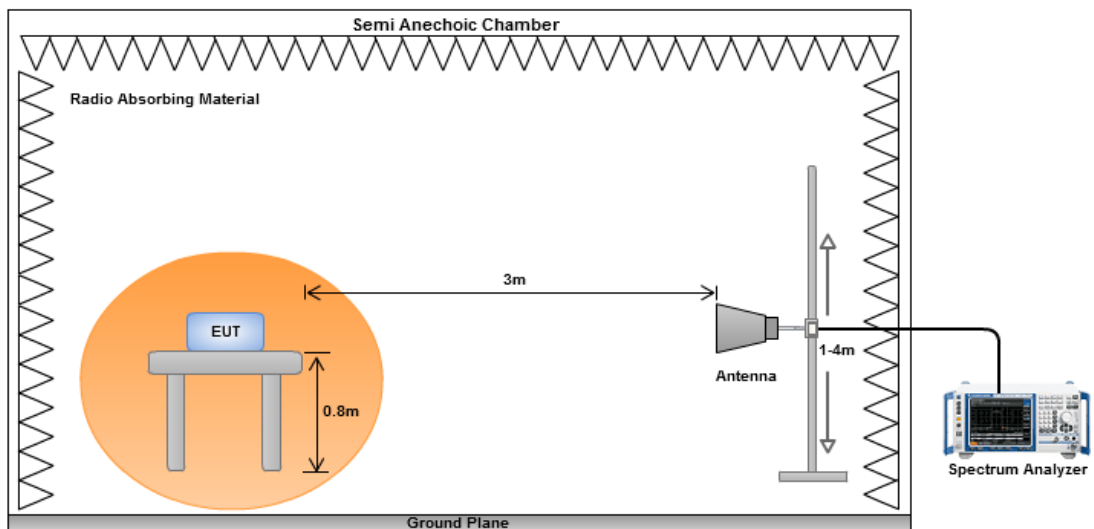
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.2.3 Test Setup

Radiated Emissions below 1 GHz

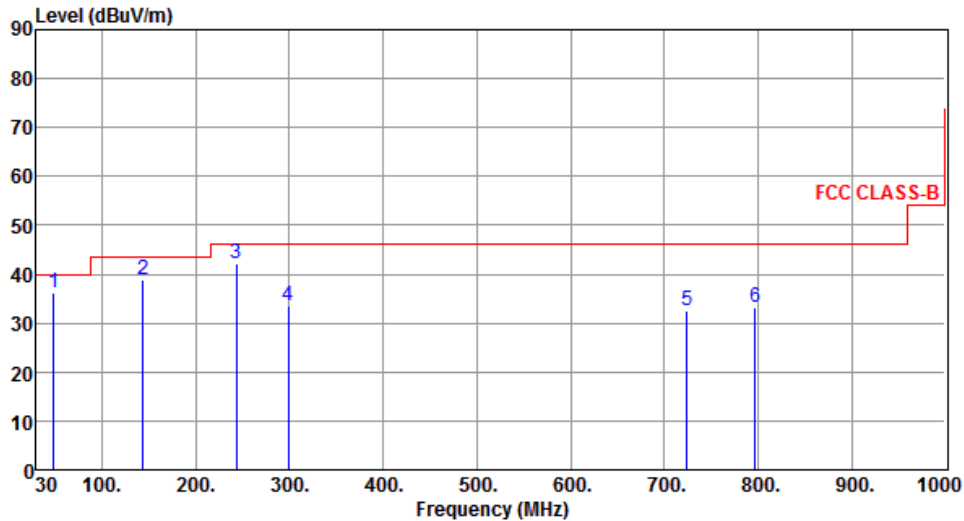


Radiated Emissions above 1 GHz



3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

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



The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 200 MHz, and 50 dBuV/m from 200 to 1000 MHz. Six measured peaks are marked with blue vertical lines and numbered 1 through 6. The data for these peaks is provided in the table below.

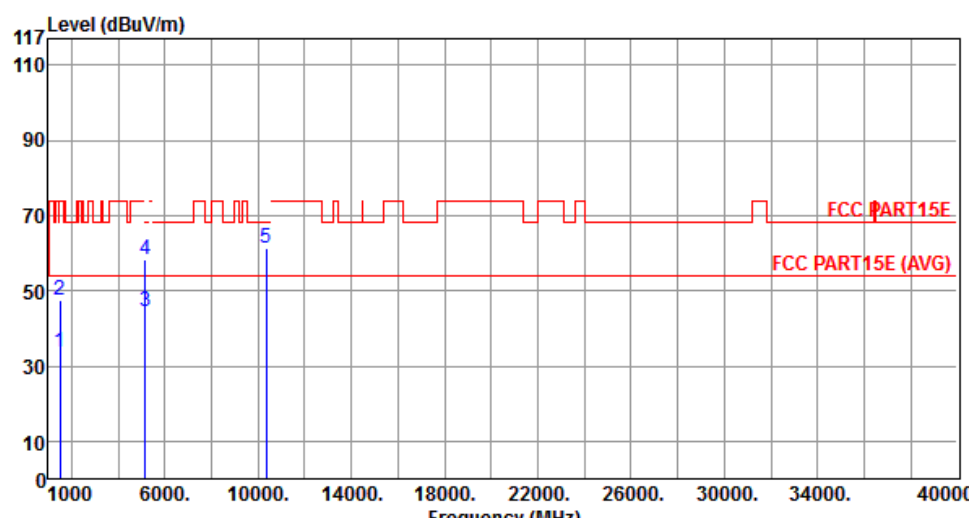
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	48.43	36.27	40.00	-3.73	48.45	-12.18	Peak	---	---
2	143.49	38.80	43.50	-4.70	51.94	-13.14	Peak	---	---
3	243.40	42.21	46.00	-3.79	56.38	-14.17	Peak	---	---
4	298.69	33.68	46.00	-12.32	46.17	-12.49	Peak	---	---
5	724.52	32.39	46.00	-13.61	35.88	-3.49	Peak	---	---
6	797.27	33.31	46.00	-12.69	35.69	-2.38	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		
Level (dBuV/m) <			

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

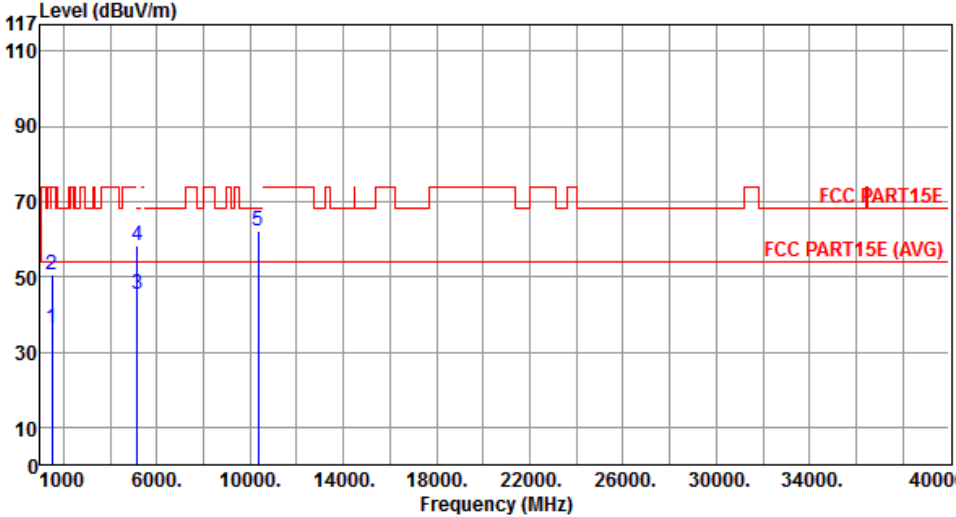
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	33.89	54.00	-20.11	40.23	-6.34	Average	---	---
2	1500.00	47.69	74.00	-26.31	54.03	-6.34	Peak	---	---
3	5150.00	44.53	54.00	-9.47	39.28	5.25	Average	---	---
4	5150.00	58.08	74.00	-15.92	52.83	5.25	Peak	---	---
5	10360.00	61.49	68.20	-6.71	47.94	13.55	Peak	---	---

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

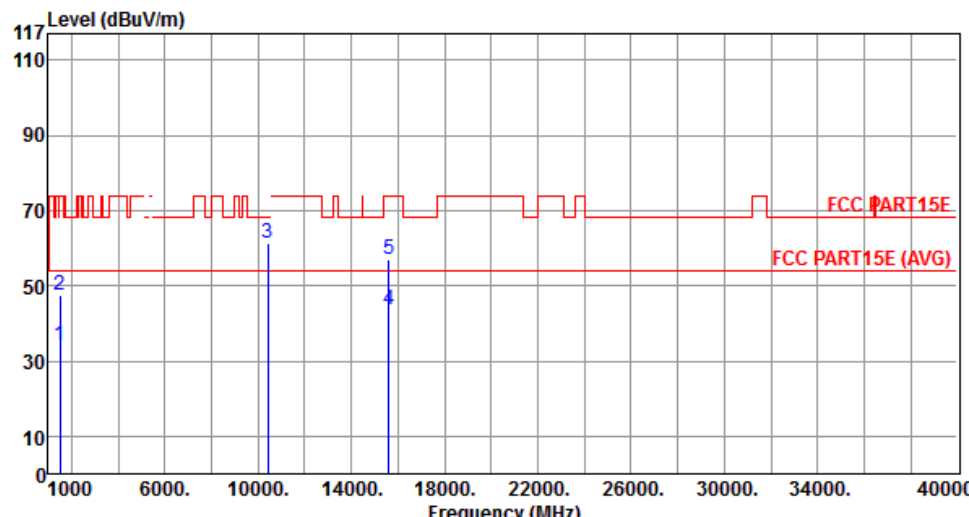
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.48	54.00	-17.52	42.82	-6.34	Average	---	---
2	1500.00	50.66	74.00	-23.34	57.00	-6.34	Peak	---	---
3	5150.00	45.53	54.00	-8.47	40.28	5.25	Average	---	---
4	5150.00	58.49	74.00	-15.51	53.24	5.25	Peak	---	---
5	10360.00	62.19	68.20	-6.01	48.64	13.55	Peak	---	---

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

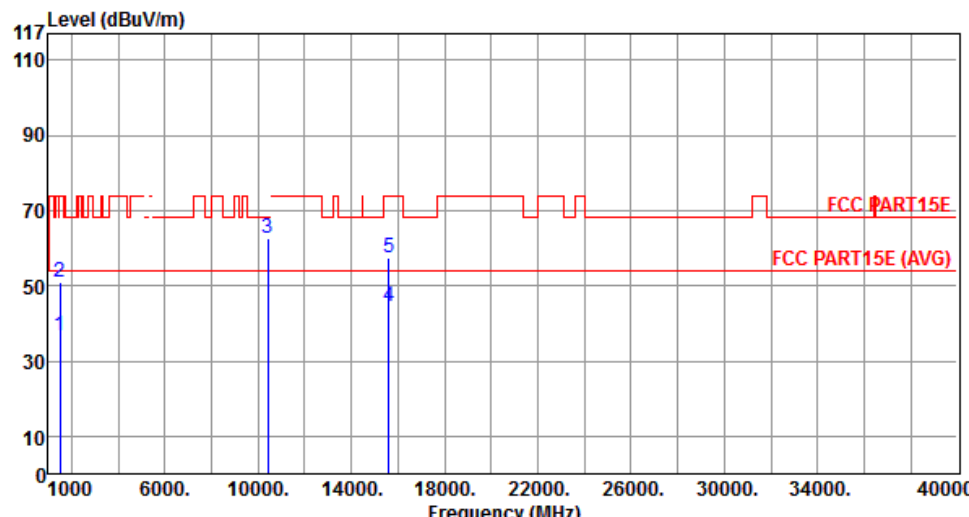
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.24	54.00	-19.76	40.58	-6.34	Average	---	---
2	1500.00	47.55	74.00	-26.45	53.89	-6.34	Peak	---	---
3	10400.00	61.29	68.20	-6.91	47.66	13.63	Peak	---	---
4	15600.00	43.42	54.00	-10.58	27.42	16.00	Average	---	---
5	15600.00	57.19	74.00	-16.81	41.19	16.00	Peak	---	---

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

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

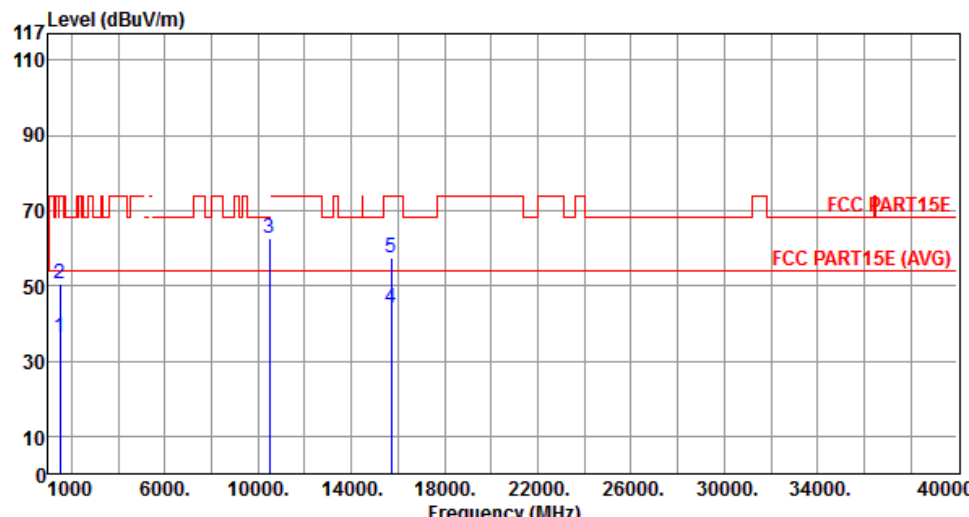


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.79	54.00	-17.21	43.13	-6.34	Average	---	---
2	1500.00	50.88	74.00	-23.12	57.22	-6.34	Peak	---	---
3	10400.00	62.43	68.20	-5.77	48.80	13.63	Peak	---	---
4	15600.00	44.42	54.00	-9.58	28.42	16.00	Average	---	---
5	15600.00	57.49	74.00	-16.51	41.49	16.00	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		
Level (dBuV/m)			

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



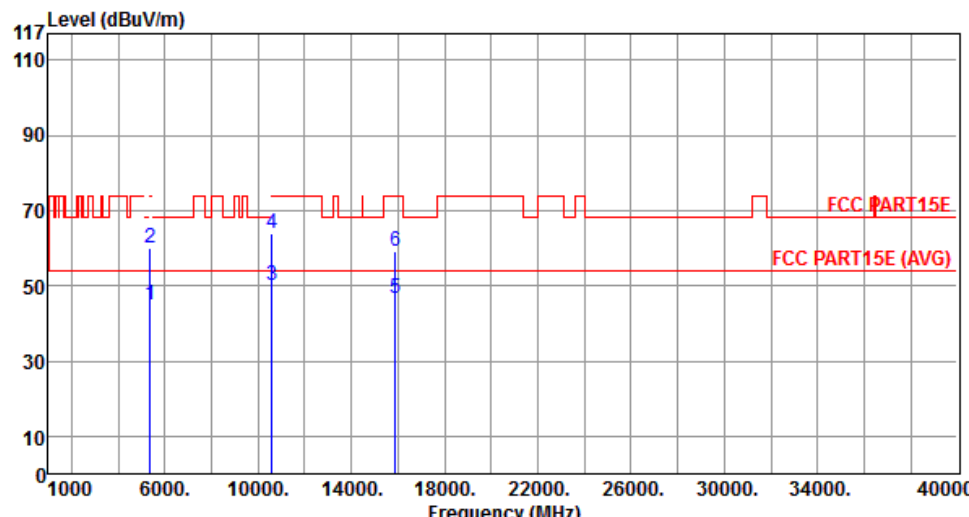
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.32	54.00	-17.68	42.66	-6.34	Average	---	---
2	1500.00	50.55	74.00	-23.45	56.89	-6.34	Peak	---	---
3	10480.00	62.78	68.20	-5.42	48.98	13.80	Peak	---	---
4	15720.00	44.13	54.00	-9.87	28.31	15.82	Average	---	---
5	15720.00	57.29	74.00	-16.71	41.47	15.82	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		
Level (dBuV/m)			

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

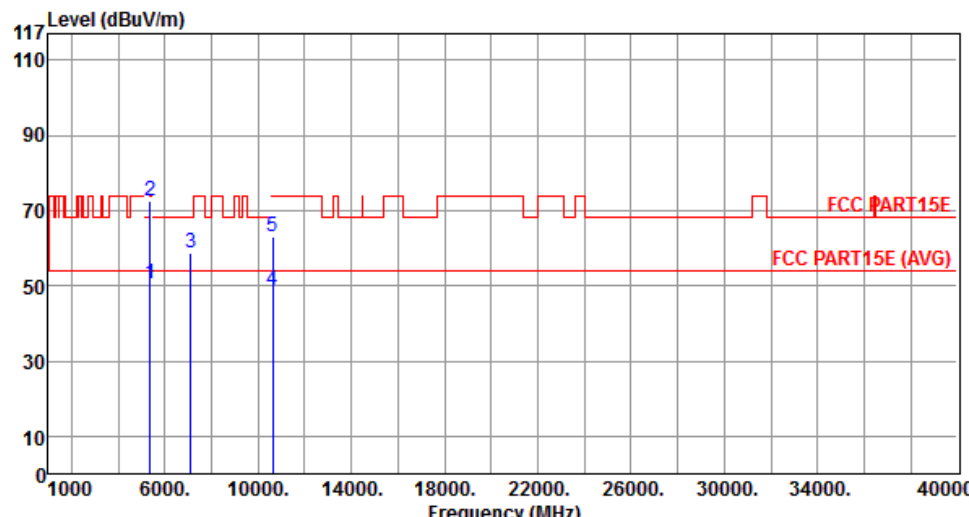


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.11	54.00	-8.89	39.70	5.41	Average	---	---
2	5350.00	59.86	74.00	-14.14	54.45	5.41	Peak	---	---
3	10600.00	50.03	54.00	-3.97	36.03	14.00	Average	---	---
4	10600.00	63.87	74.00	-10.13	49.87	14.00	Peak	---	---
5	15900.00	46.63	54.00	-7.37	31.08	15.55	Average	---	---
6	15900.00	59.00	74.00	-15.00	43.45	15.55	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		
Level (dBuV/m) </			

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

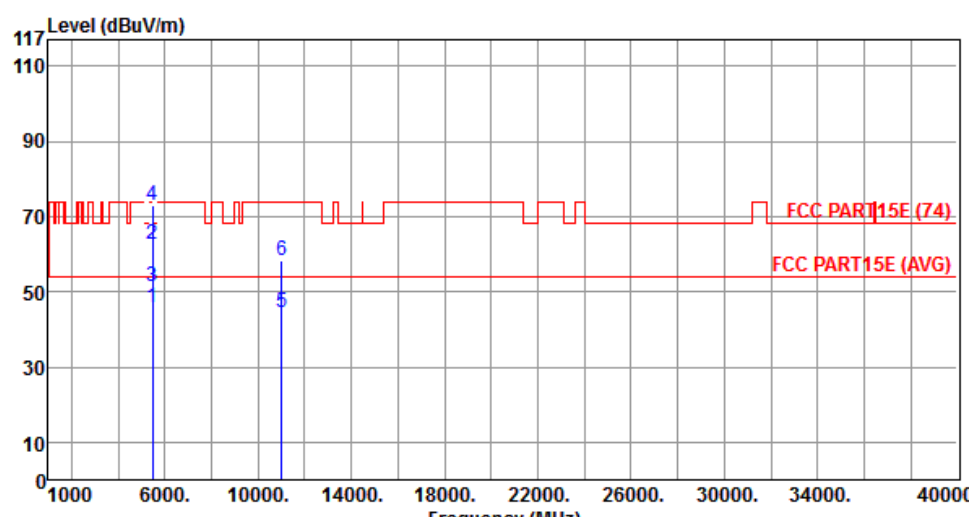


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	50.72	54.00	-3.28	45.31	5.41	Average	---	---
2	5350.00	72.68	74.00	-1.32	67.27	5.41	Peak	---	---
3	7093.30	58.67	68.20	-9.53	49.56	9.11	Peak	---	---
4	10640.00	48.87	54.00	-5.13	34.80	14.07	Average	---	---
5	10640.00	62.86	74.00	-11.14	48.79	14.07	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		
Level (dBuV/m) <			

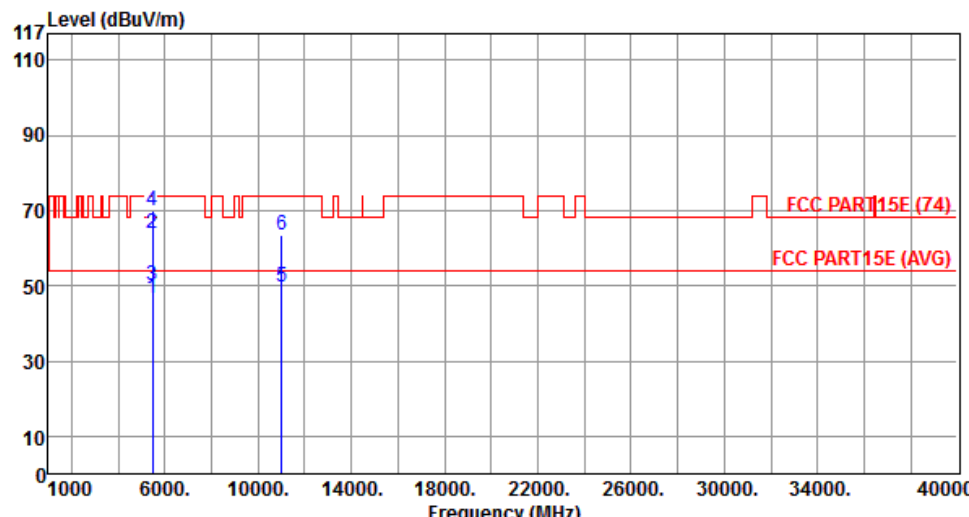
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	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	45.97	54.00	-8.03	40.39	5.58	Average	---	---
2	5460.00	62.56	74.00	-11.44	56.98	5.58	Peak	---	---
3	5470.00	51.58	54.00	-2.42	45.97	5.61	Average	---	---
4	5470.00	72.75	74.00	-1.25	67.14	5.61	Peak	---	---
5	11000.00	44.49	54.00	-9.51	29.81	14.68	Average	---	---
6	11000.00	58.13	74.00	-15.87	43.45	14.68	Peak	---	---

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

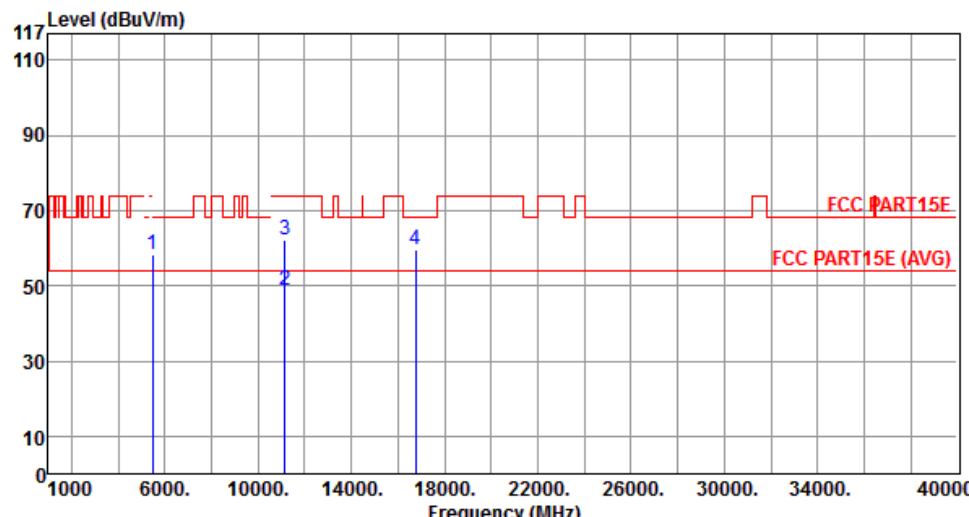
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	46.55	54.00	-7.45	40.97	5.58	Average	---	---
2	5460.00	63.86	74.00	-10.14	58.28	5.58	Peak	---	---
3	5470.00	50.08	54.00	-3.92	44.47	5.61	Average	---	---
4	5470.00	69.87	74.00	-4.13	64.26	5.61	Peak	---	---
5	11000.00	49.73	54.00	-4.27	35.05	14.68	Average	---	---
6	11000.00	63.54	74.00	-10.46	48.86	14.68	Peak	---	---

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

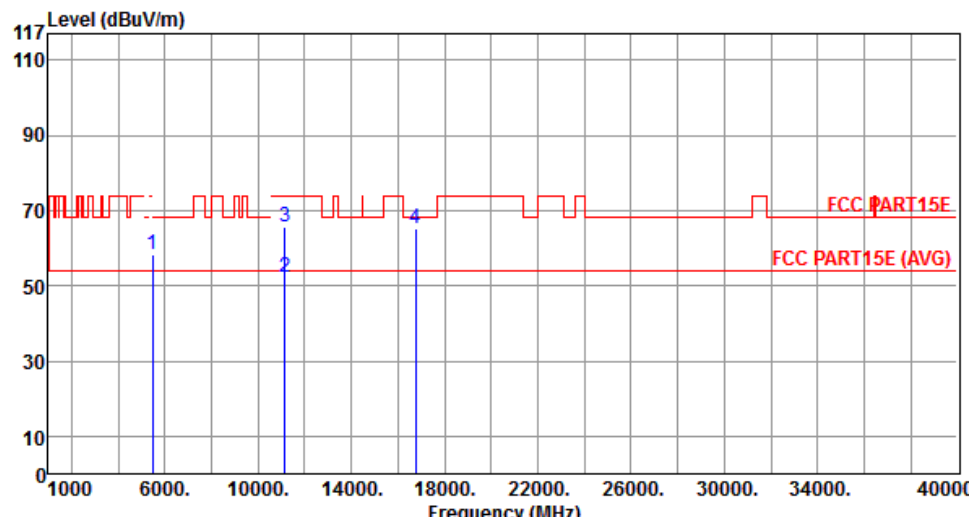
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	58.46	68.20	-9.74	52.85	5.61	Peak	---	---
2	11160.00	48.61	54.00	-5.39	33.89	14.72	Average	---	---
3	11160.00	61.97	74.00	-12.03	47.25	14.72	Peak	---	---
4	16740.00	59.68	68.20	-8.52	41.93	17.75	Peak	---	---

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

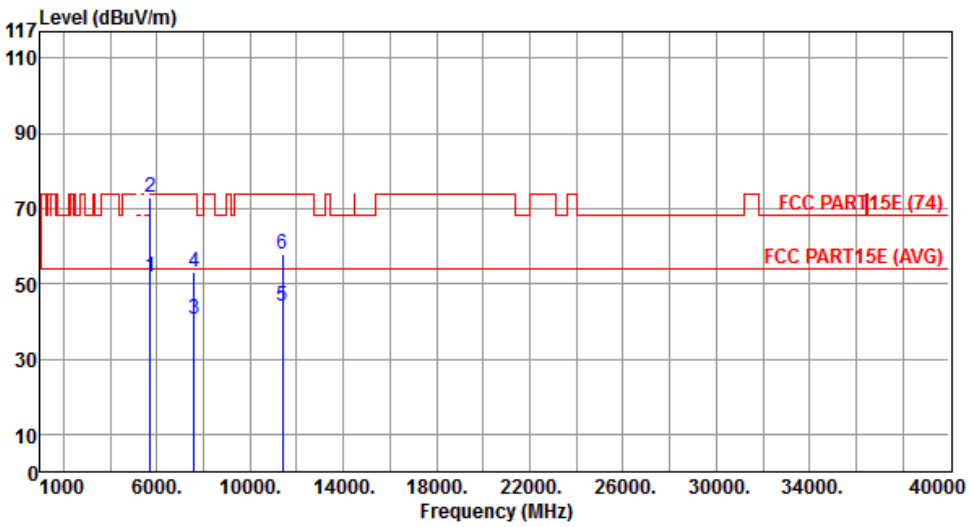
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	58.23	68.20	-9.97	52.62	5.61	Peak	---	---
2	11160.00	52.27	54.00	-1.73	37.55	14.72	Average	---	---
3	11160.00	65.42	74.00	-8.58	50.70	14.72	Peak	---	---
4	16740.00	65.33	68.20	-2.87	47.58	17.75	Peak	---	---

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

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



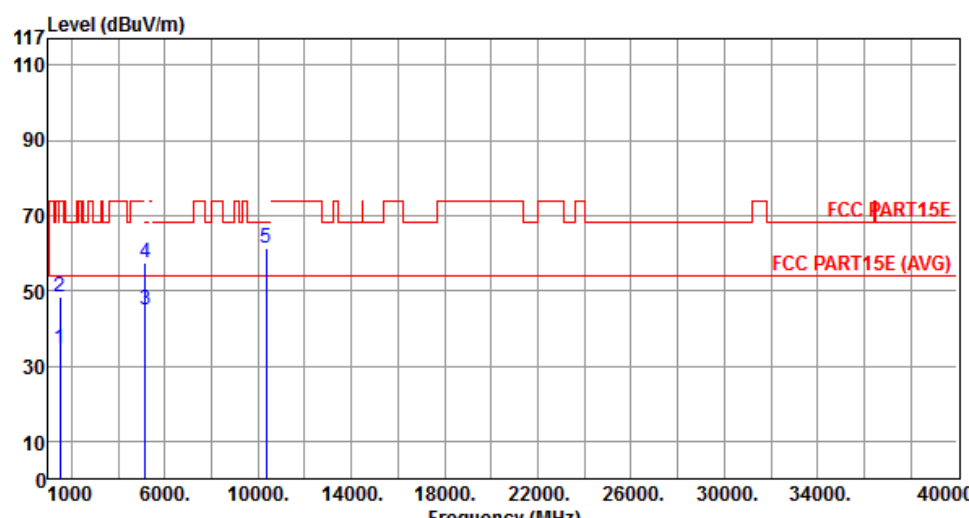
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	51.72	54.00	-2.28	45.62	6.10	Average	---	---
2	5725.00	73.00	74.00	-1.00	66.90	6.10	Peak	---	---
3	7600.00	40.55	54.00	-13.45	30.60	9.95	Average	---	---
4	7600.00	52.89	74.00	-21.11	42.94	9.95	Peak	---	---
5	11400.00	44.23	54.00	-9.77	29.43	14.80	Average	---	---
6	11400.00	57.72	74.00	-16.28	42.92	14.80	Peak	---	---

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

Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		
Level (dBuV/m) <			

3.2.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

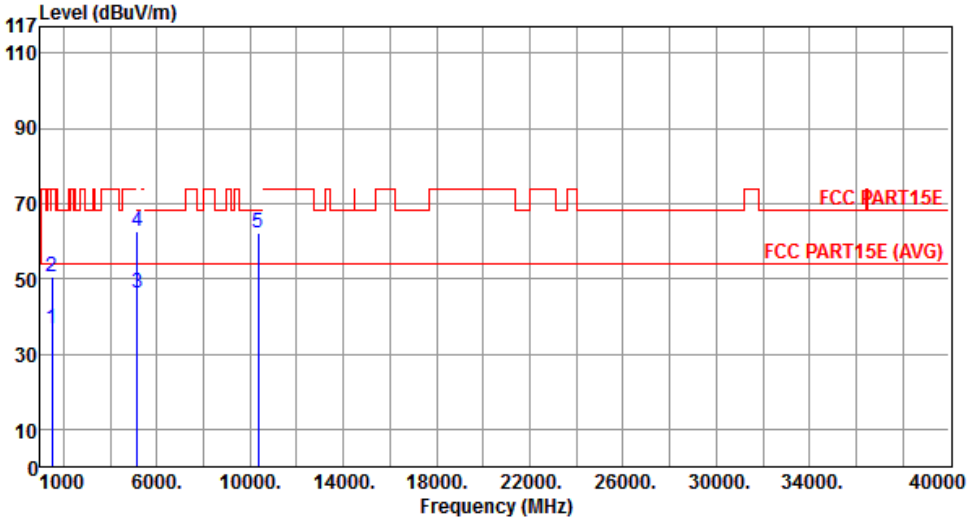
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.72	54.00	-19.28	41.06	-6.34	Average	---	---
2	1500.00	48.22	74.00	-25.78	54.56	-6.34	Peak	---	---
3	5150.00	44.69	54.00	-9.31	39.44	5.25	Average	---	---
4	5150.00	57.58	74.00	-16.42	52.33	5.25	Peak	---	---
5	10360.00	61.33	68.20	-6.87	47.78	13.55	Peak	---	---

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

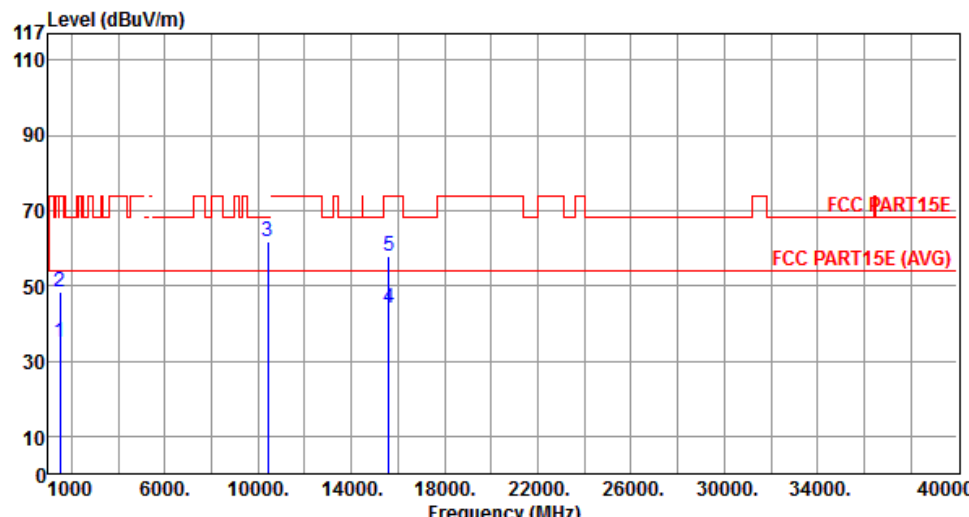
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.72	54.00	-17.28	43.06	-6.34	Average	---	---
2	1500.00	50.44	74.00	-23.56	56.78	-6.34	Peak	---	---
3	5150.00	46.39	54.00	-7.61	41.14	5.25	Average	---	---
4	5150.00	62.55	74.00	-11.45	57.30	5.25	Peak	---	---
5	10360.00	62.30	68.20	-5.90	48.75	13.55	Peak	---	---

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

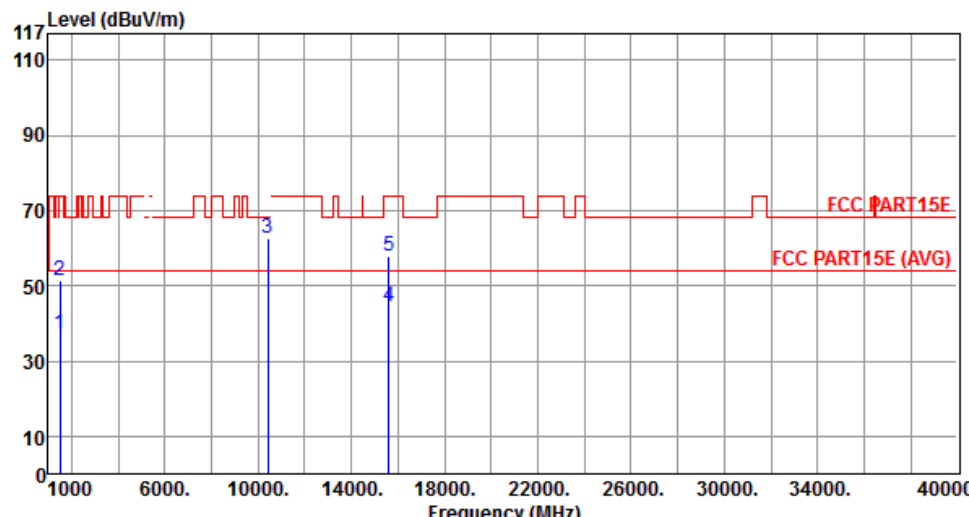
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.96	54.00	-19.04	41.30	-6.34	Average	---	---
2	1500.00	48.50	74.00	-25.50	54.84	-6.34	Peak	---	---
3	10400.00	61.72	68.20	-6.48	48.09	13.63	Peak	---	---
4	15600.00	44.18	54.00	-9.82	28.18	16.00	Average	---	---
5	15600.00	57.77	74.00	-16.23	41.77	16.00	Peak	---	---

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

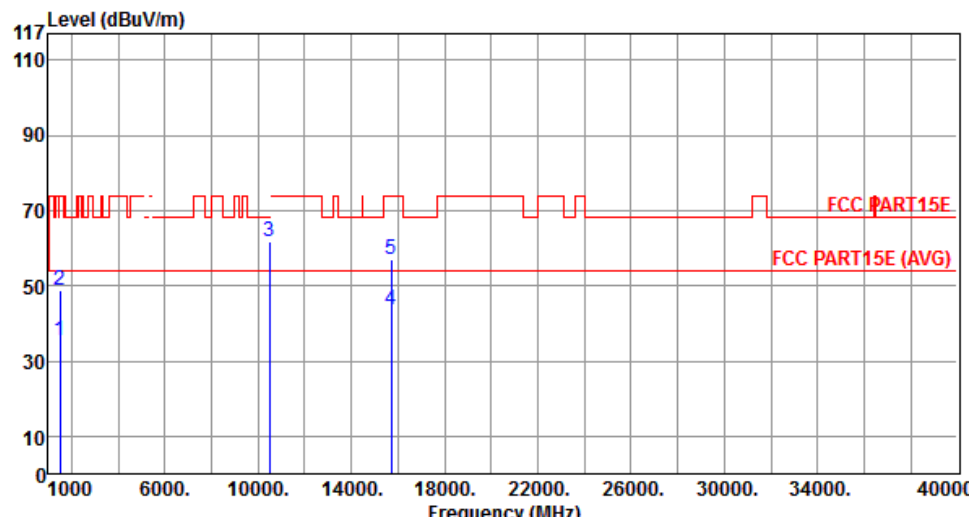
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.97	54.00	-17.03	43.31	-6.34	Average	---	---
2	1500.00	51.17	74.00	-22.83	57.51	-6.34	Peak	---	---
3	10400.00	62.81	68.20	-5.39	49.18	13.63	Peak	---	---
4	15600.00	44.66	54.00	-9.34	28.66	16.00	Average	---	---
5	15600.00	57.69	74.00	-16.31	41.69	16.00	Peak	---	---

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

Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



The graph displays the emission level in dBuV/m against frequency in MHz. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 1000 to 40000 MHz. A red line represents the FCC PART15E limit, which is 70 dBuV/m for frequencies below 30 MHz and 50 dBuV/m for frequencies above 30 MHz. A red line labeled 'FCC PART15E (AVG)' is also shown at 50 dBuV/m. Blue vertical lines indicate test results at 1500 MHz (point 2), 10480 MHz (point 3), 15720 MHz (point 4), and 15720 MHz (point 5). The emission levels are 35.39 dBuV/m at 1500 MHz, 61.89 dBuV/m at 10480 MHz, 43.52 dBuV/m at 15720 MHz (average), and 57.11 dBuV/m at 15720 MHz (peak).

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	35.39	54.00	-18.61	41.73	-6.34	Average	---	---
2	1500.00	48.72	74.00	-25.28	55.06	-6.34	Peak	---	---
3	10480.00	61.89	68.20	-6.31	48.09	13.80	Peak	---	---
4	15720.00	43.52	54.00	-10.48	27.70	15.82	Average	---	---
5	15720.00	57.11	74.00	-16.89	41.29	15.82	Peak	---	---

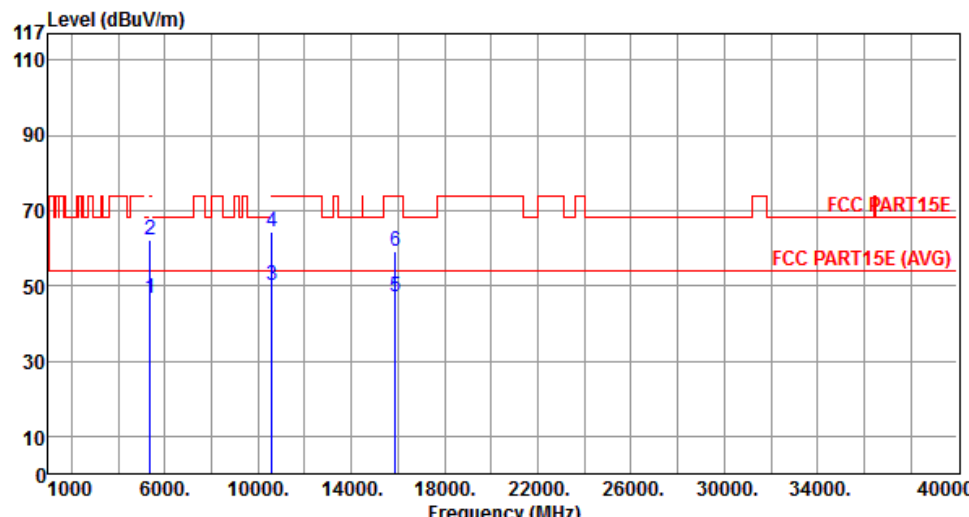
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20		Test Freq. (MHz)		5240	
Polarization	Vertical					
Level (dBuV/m) </						

Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Horizontal		
Level (dBuV/m) <			

Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Vertical		
Level (dBuV/m)			

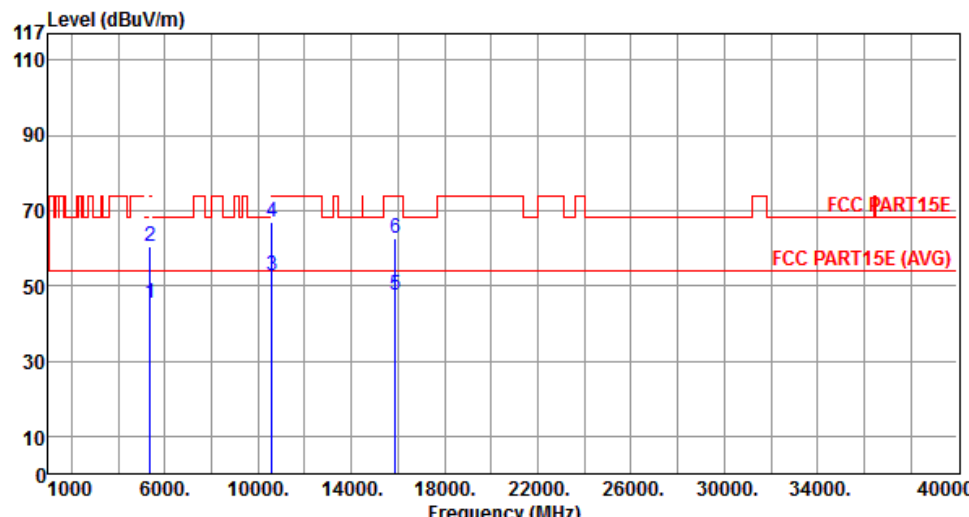
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.43	54.00	-7.57	41.02	5.41	Average	---	---
2	5350.00	62.10	74.00	-11.90	56.69	5.41	Peak	---	---
3	10600.00	50.27	54.00	-3.73	36.27	14.00	Average	---	---
4	10600.00	64.13	74.00	-9.87	50.13	14.00	Peak	---	---
5	15900.00	46.87	54.00	-7.13	31.32	15.55	Average	---	---
6	15900.00	59.03	74.00	-14.97	43.48	15.55	Peak	---	---

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

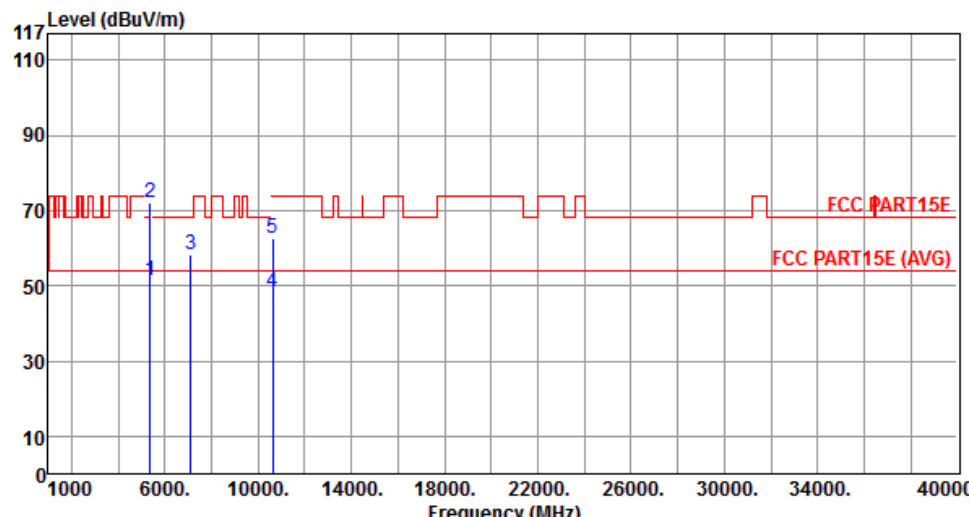
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.54	54.00	-8.46	40.13	5.41	Average	---	---
2	5350.00	60.49	74.00	-13.51	55.08	5.41	Peak	---	---
3	10600.00	52.48	54.00	-1.52	38.48	14.00	Average	---	---
4	10600.00	66.78	74.00	-7.22	52.78	14.00	Peak	---	---
5	15900.00	47.55	54.00	-6.45	32.00	15.55	Average	---	---
6	15900.00	62.47	74.00	-11.53	46.92	15.55	Peak	---	---

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

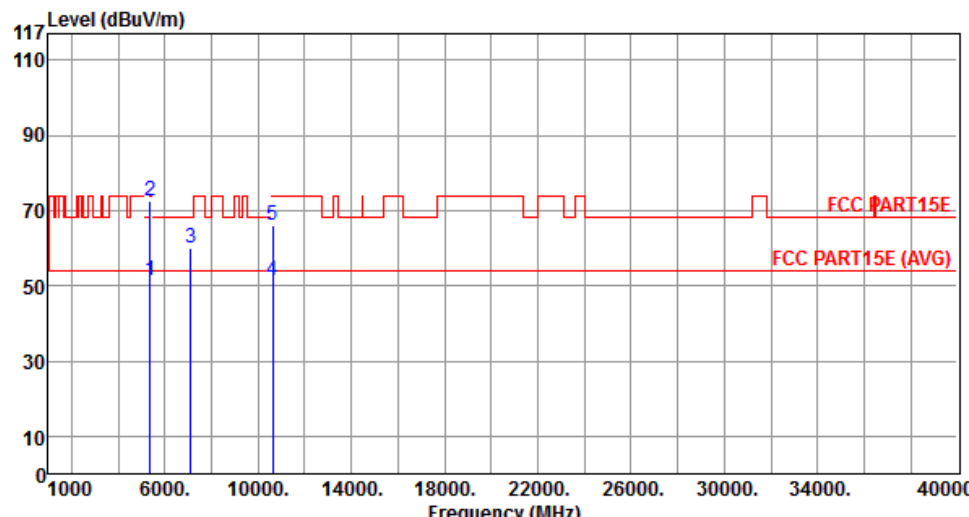
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	51.32	54.00	-2.68	45.91	5.41	Average	---	---
2	5350.00	72.29	74.00	-1.71	66.88	5.41	Peak	---	---
3	7093.30	58.27	68.20	-9.93	49.16	9.11	Peak	---	---
4	10640.00	48.49	54.00	-5.51	34.42	14.07	Average	---	---
5	10640.00	62.55	74.00	-11.45	48.48	14.07	Peak	---	---

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

Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical		



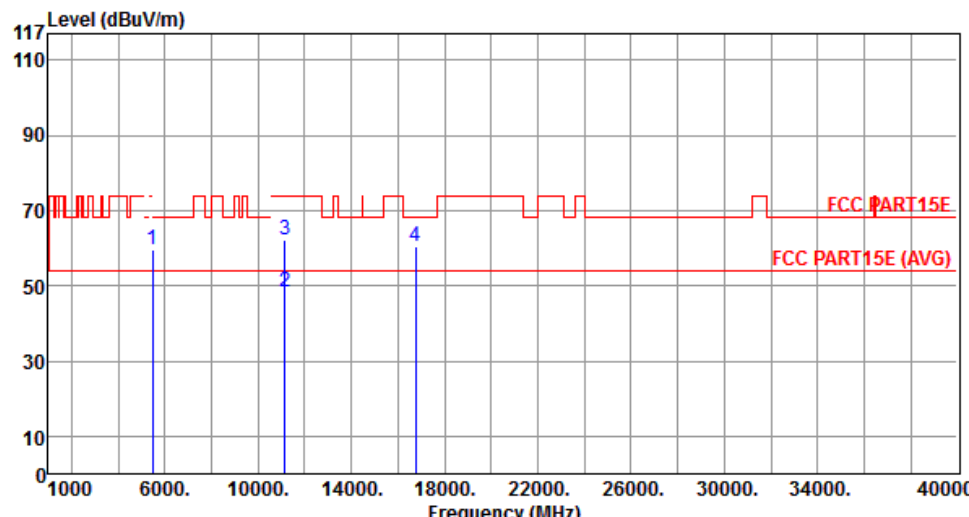
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	51.57	54.00	-2.43	46.16	5.41	Average	---	---
2	5350.00	72.57	74.00	-1.43	67.16	5.41	Peak	---	---
3	7093.30	59.89	68.20	-8.31	50.78	9.11	Peak	---	---
4	10640.00	51.57	54.00	-2.43	37.50	14.07	Average	---	---
5	10640.00	66.07	74.00	-7.93	52.00	14.07	Peak	---	---

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

Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical		
Level (dBuV/m) </			

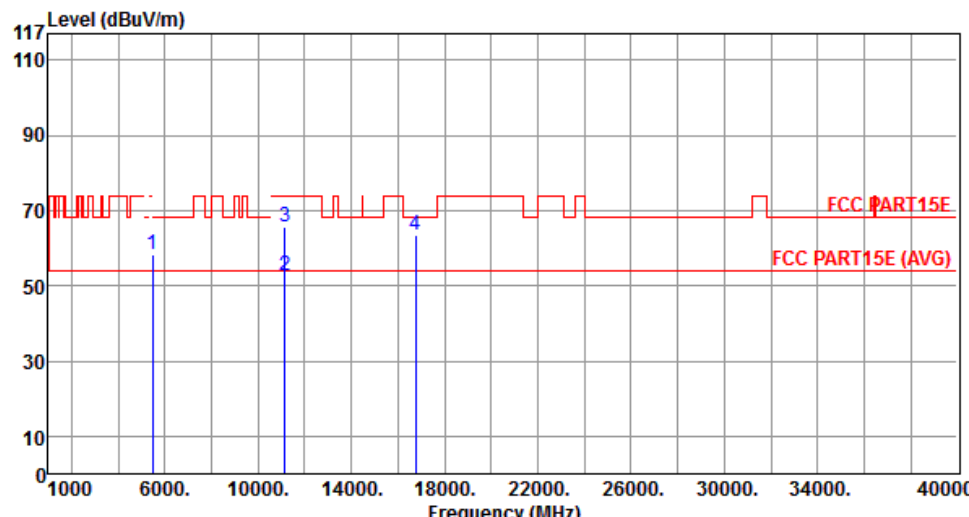
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	59.50	68.20	-8.70	53.89	5.61	Peak	---	---
2	11160.00	48.49	54.00	-5.51	33.77	14.72	Average	---	---
3	11160.00	62.27	74.00	-11.73	47.55	14.72	Peak	---	---
4	16740.00	60.43	68.20	-7.77	42.68	17.75	Peak	---	---

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

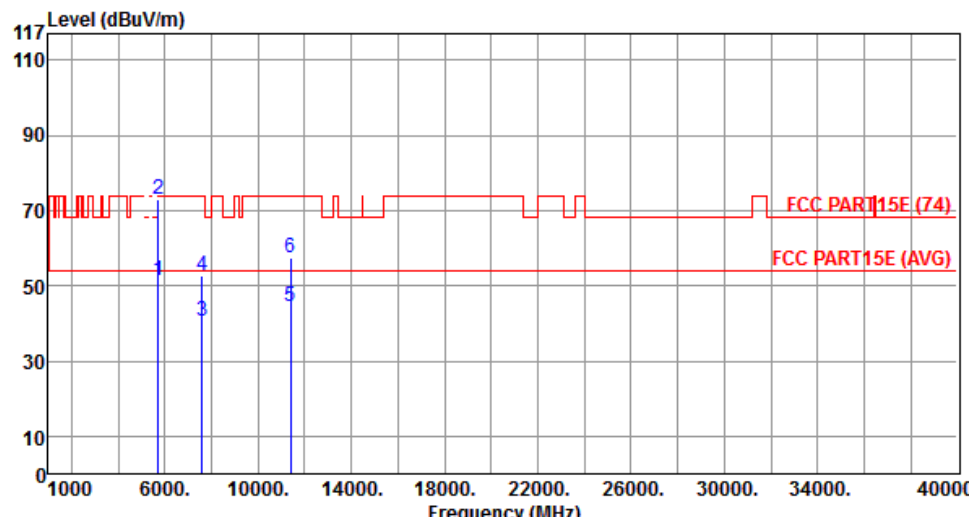
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	58.27	68.20	-9.93	52.66	5.61	Peak	---	---
2	11160.00	52.47	54.00	-1.53	37.75	14.72	Average	---	---
3	11160.00	65.59	74.00	-8.41	50.87	14.72	Peak	---	---
4	16740.00	63.46	68.20	-4.74	45.71	17.75	Peak	---	---

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

Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



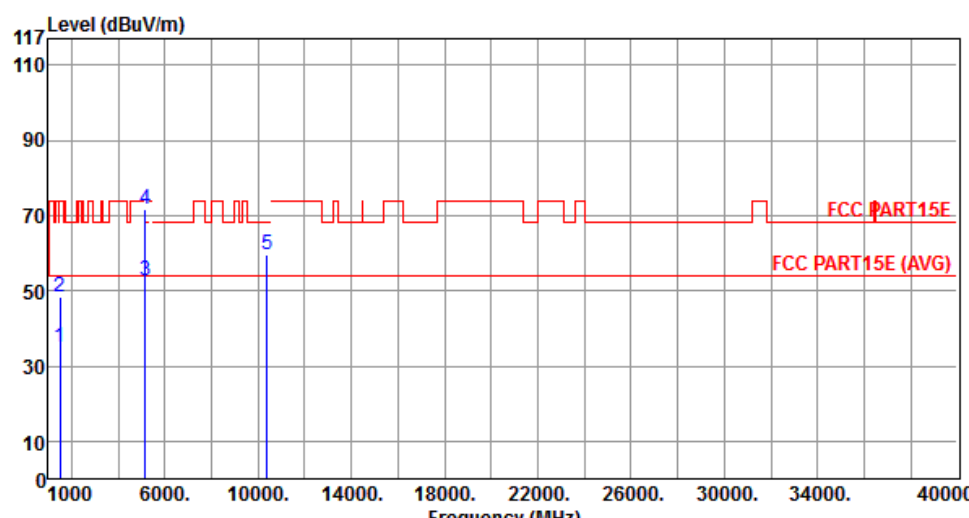
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	51.23	54.00	-2.77	45.13	6.10	Average	---	---
2	5725.00	72.79	74.00	-1.21	66.69	6.10	Peak	---	---
3	7600.00	40.72	54.00	-13.28	30.77	9.95	Average	---	---
4	7600.00	52.84	74.00	-21.16	42.89	9.95	Peak	---	---
5	11400.00	44.33	54.00	-9.67	29.53	14.80	Average	---	---
6	11400.00	57.33	74.00	-16.67	42.53	14.80	Peak	---	---

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

Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Vertical		
Level (dBuV/m)			

3.2.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

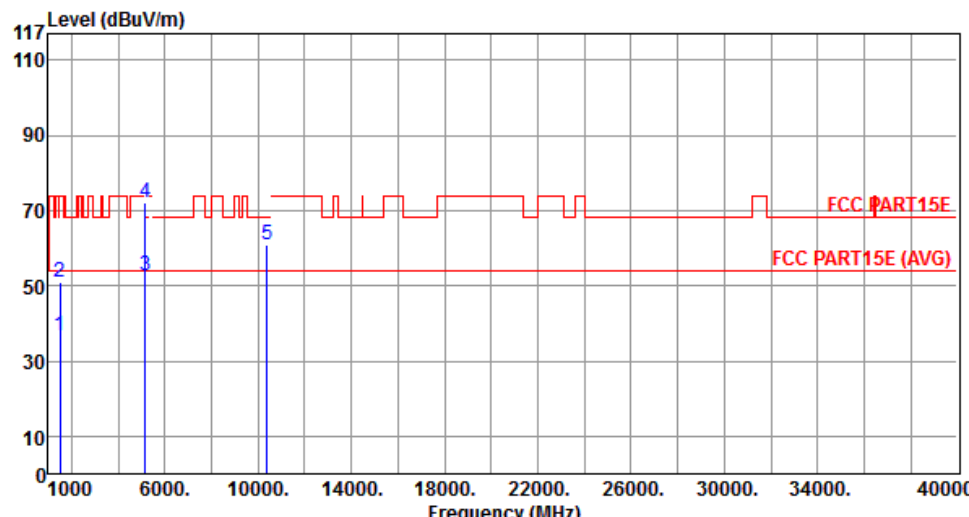
Modulation	HT40	Test Freq. (MHz)	5190
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.87	54.00	-19.13	41.21	-6.34	Average	---	---
2	1500.00	48.48	74.00	-25.52	54.82	-6.34	Peak	---	---
3	5150.00	52.57	54.00	-1.43	47.32	5.25	Average	---	---
4	5150.00	71.75	74.00	-2.25	66.50	5.25	Peak	---	---
5	10380.00	59.37	68.20	-8.83	45.78	13.59	Peak	---	---

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

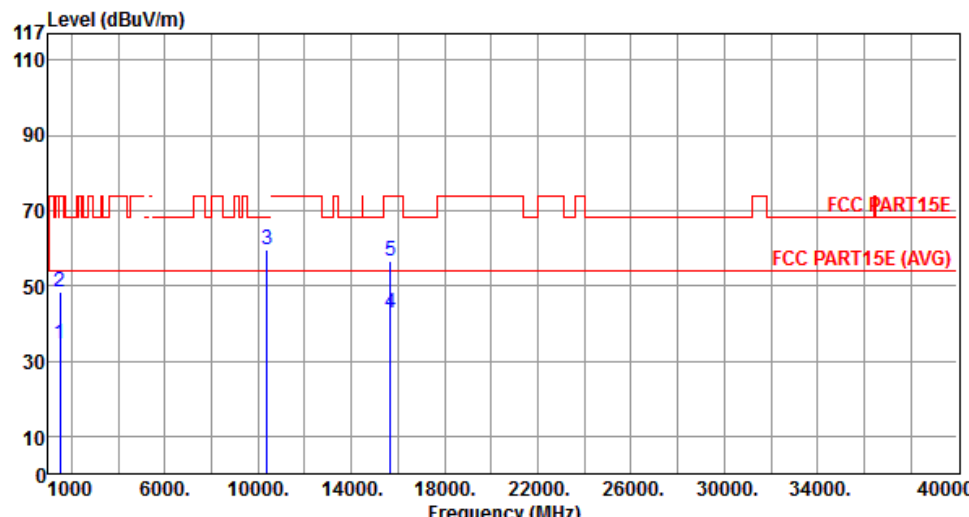
Modulation	HT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.88	54.00	-17.12	43.22	-6.34	Average	---	---
2	1500.00	50.75	74.00	-23.25	57.09	-6.34	Peak	---	---
3	5150.00	52.84	54.00	-1.16	47.59	5.25	Average	---	---
4	5150.00	72.23	74.00	-1.77	66.98	5.25	Peak	---	---
5	10380.00	60.82	68.20	-7.38	47.23	13.59	Peak	---	---

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

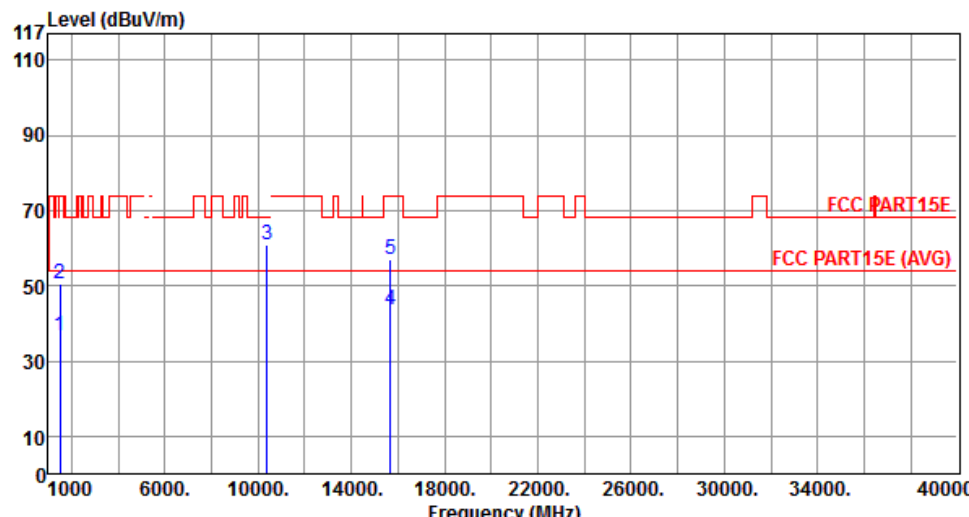
Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	34.72	54.00	-19.28	41.06	-6.34	Average	---	---
2	1500.00	48.30	74.00	-25.70	54.64	-6.34	Peak	---	---
3	10380.00	59.40	68.20	-8.80	45.81	13.59	Peak	---	---
4	15690.00	42.87	54.00	-11.13	27.00	15.87	Average	---	---
5	15690.00	56.59	74.00	-17.41	40.72	15.87	Peak	---	---

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

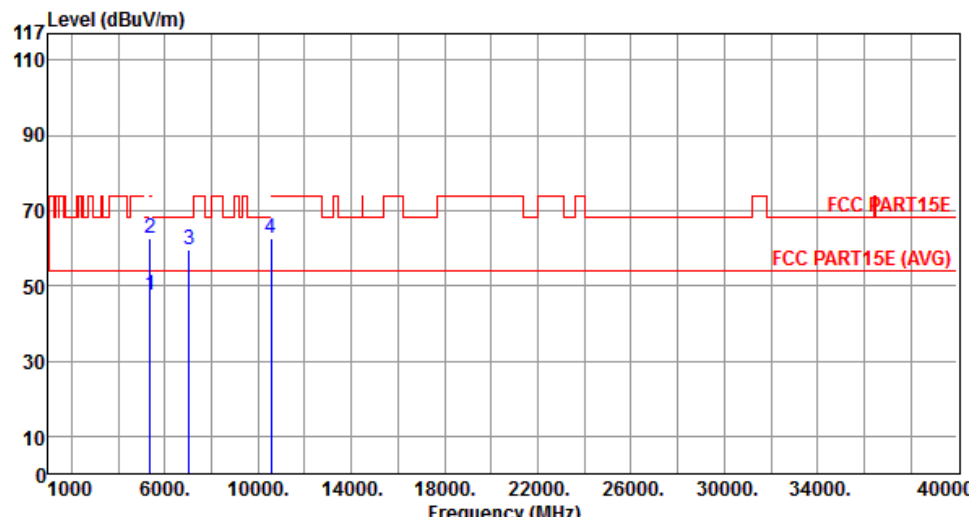
Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1500.00	36.72	54.00	-17.28	43.06	-6.34	Average	---	---
2	1500.00	50.59	74.00	-23.41	56.93	-6.34	Peak	---	---
3	10380.00	60.72	68.20	-7.48	47.13	13.59	Peak	---	---
4	15690.00	43.69	54.00	-10.31	27.82	15.87	Average	---	---
5	15690.00	56.89	74.00	-17.11	41.02	15.87	Peak	---	---

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

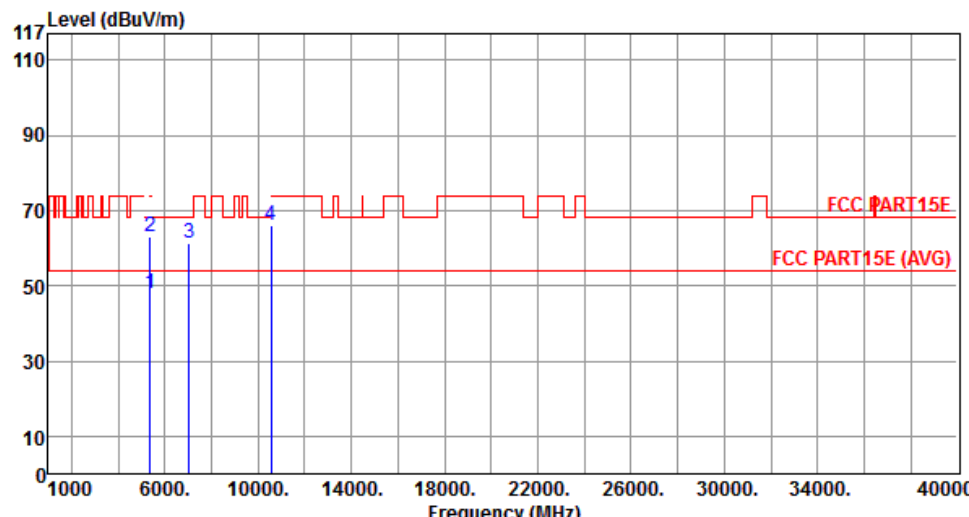
Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.39	54.00	-6.61	41.98	5.41	Average	---	---
2	5350.00	62.58	74.00	-11.42	57.17	5.41	Peak	---	---
3	7026.30	59.78	68.20	-8.42	50.85	8.93	Peak	---	---
4	10540.00	62.73	68.20	-5.47	48.83	13.90	Peak	---	---

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

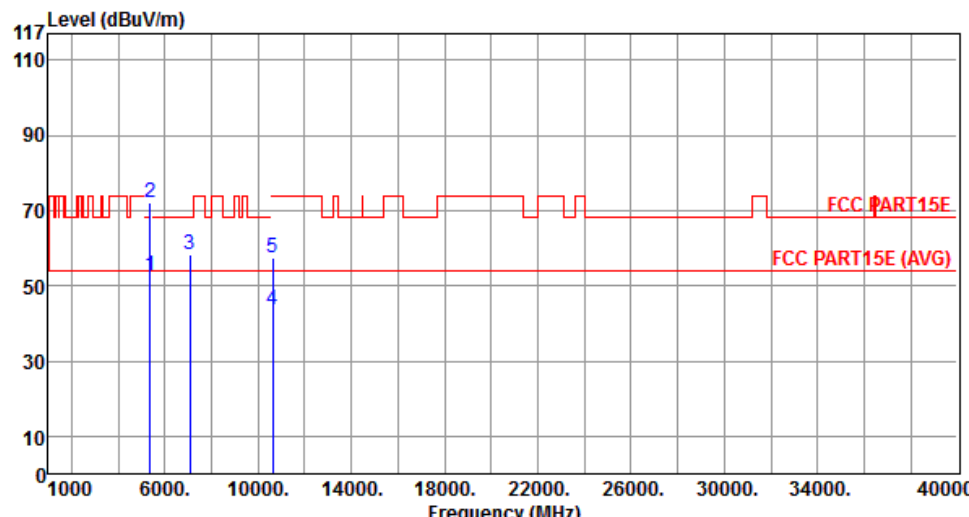
Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.74	54.00	-6.26	42.33	5.41	Average	---	---
2	5350.00	62.82	74.00	-11.18	57.41	5.41	Peak	---	---
3	7026.30	61.39	68.20	-6.81	52.46	8.93	Peak	---	---
4	10540.00	65.90	68.20	-2.30	52.00	13.90	Peak	---	---

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

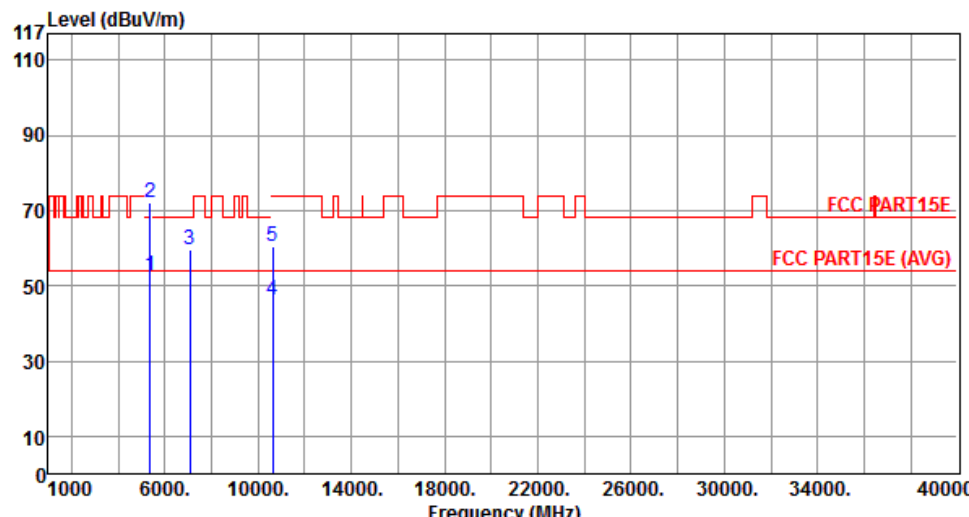
Modulation	HT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	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	52.88	54.00	-1.12	47.47	5.41	Average	---	---
2	5350.00	72.27	74.00	-1.73	66.86	5.41	Peak	---	---
3	7080.00	58.47	68.20	-9.73	49.39	9.08	Peak	---	---
4	10620.00	43.80	54.00	-10.20	29.77	14.03	Average	---	---
5	10620.00	57.49	74.00	-16.51	43.46	14.03	Peak	---	---

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

Modulation	HT40	Test Freq. (MHz)	5310
Polarization	Vertical		

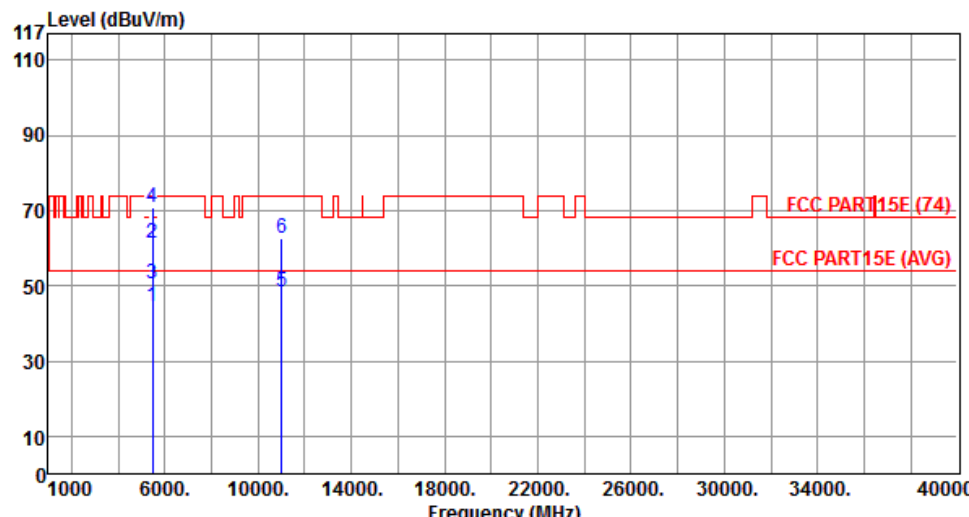


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.75	54.00	-1.25	47.34	5.41	Average	---	---
2	5350.00	72.24	74.00	-1.76	66.83	5.41	Peak	---	---
3	7080.00	59.75	68.20	-8.45	50.67	9.08	Peak	---	---
4	10620.00	46.11	54.00	-7.89	32.08	14.03	Average	---	---
5	10620.00	60.54	74.00	-13.46	46.51	14.03	Peak	---	---

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

Modulation	HT40	Test Freq. (MHz)	5510
Polarization	Horizontal		
Level (dBuV/m)			

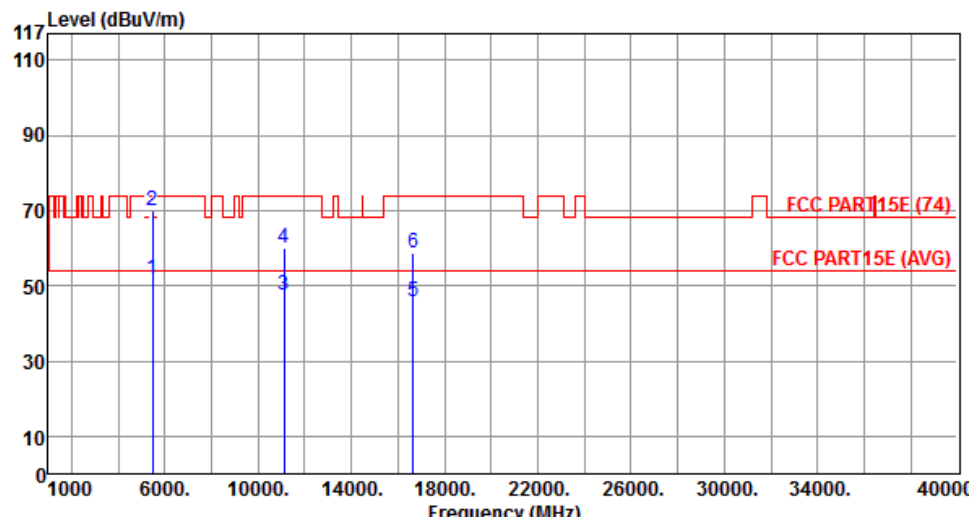
Modulation	HT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	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	44.33	54.00	-9.67	38.75	5.58	Average	---	---
2	5460.00	61.19	74.00	-12.81	55.61	5.58	Peak	---	---
3	5470.00	50.70	54.00	-3.30	45.09	5.61	Average	---	---
4	5470.00	70.75	74.00	-3.25	65.14	5.61	Peak	---	---
5	11020.00	48.33	54.00	-5.67	33.65	14.68	Average	---	---
6	11020.00	62.72	74.00	-11.28	48.04	14.68	Peak	---	---

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

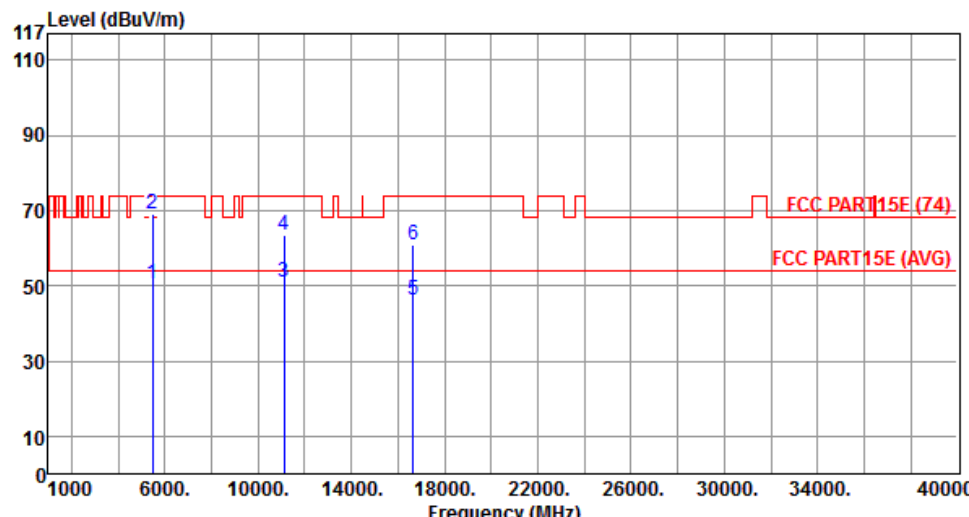
Modulation	HT40	Test Freq. (MHz)	5550
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5470.00	51.73	54.00	-2.27	46.12	5.61	Average	---	---
2	5470.00	69.88	74.00	-4.12	64.27	5.61	Peak	---	---
3	11100.00	47.59	54.00	-6.41	32.89	14.70	Average	---	---
4	11100.00	59.93	74.00	-14.07	45.23	14.70	Peak	---	---
5	16650.00	45.82	54.00	-8.18	28.37	17.45	Average	---	---
6	16650.00	58.57	74.00	-15.43	41.12	17.45	Peak	---	---

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

Modulation	HT40	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	5470.00	50.59	54.00	-3.41	44.95	5.64	Average	---	---
2	5470.00	68.91	74.00	-5.09	63.27	5.64	Peak	---	---
3	11100.00	50.83	54.00	-3.17	36.12	14.71	Average	---	---
4	11100.00	63.61	74.00	-10.39	48.90	14.71	Peak	---	---
5	16650.00	46.32	54.00	-7.68	28.87	17.45	Average	---	---
6	16650.00	60.69	74.00	-13.31	43.24	17.45	Peak	---	---

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

Modulation	HT40	Test Freq. (MHz)	5670
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	HT40	Test Freq. (MHz)	5670
Polarization	Vertical		
Level (dBuV/m)			

4 Test laboratory information

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

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

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

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==END==