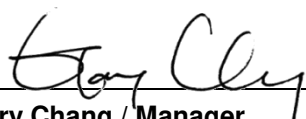


FCC Test Report

FCC ID : VQK-F03H
Equipment : Mobile Phone
Model No. : F-03H
Brand Name : FUJITSU
Applicant : FUJITSU LIMITED
Address : 1-1, Kamikodanaka 4-chome, Nakahara-ku,
Kawasaki 211-8588, Japan
Standard : 47 CFR FCC Part 15.407
Received Date : Feb. 26, 2016
Tested Date : Apr. 18 ~ Apr. 28, 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.

Approved & Reviewed by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR622602AN	Rev. 01	Initial issue	May 10, 2016

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 4.247MHz 48.89 (Margin -7.11dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5470.00MHz 66.68 (Margin -1.52dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 16.15 5250~5350MHz: 15.99 5470~5725MHz: 15.92	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Product Details

Product Name	Mobile Phone
Brand Name	FUJITSU
Model Name	F-03H
IMEI Code	356398070028368 / 356398070028426
H/W Version	V2.1.0
S/W Version	R012.2

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{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 [11]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725	n (HT20)	5180-5240 5260-5320 5500-5700	36-48 [4] 52-64 [4] 100-140 [11]]	1	MCS 0-7
5150-5250 5250-5350 5470-5725	n (HT40)	5190-5230 5270-5310 5510-5670	38-46 [2] 54-62 [2] 102-134 [5]	1	MCS 0-7

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.

1.1.3 Antenna Details

Ant. No.	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
			2400~2483.5	5150~5350	5470~5725
1	λ / 4 Monopole	N/A	-8.0	-6.1	-6.1

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5.0Vdc from AC adapter 3.8Vdc from Battery
--------------------------	---

1.1.5 Accessories

No.	Equipment	Description
1	Battery	Brand Name: FUJITSU CONNECTED TECHNOLOGIES LIMITED Model Name: CA54310-0067 Power Rating: 3.8Vdc, 2,580mAh, 9.9Wh

1.1.6 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	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	---	---
108	5540	---	---
112	5560	---	---
116	5580	---	---
120	5600	---	---
124	5620	---	---
128	5640	---	---
132	5660	---	---
136	5680	---	---
140	5700	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	QRCT, Version: 3.0.54.0		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11a	100.00%	0.00
	HT20	100.00%	0.00
	HT40	99.96%	0.00

1.1.8 Power Setting

For Frequency band 5150-5250 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5180	16.00
11a	5200	16.00
11a	5240	16.00
HT20	5180	16.00
HT20	5200	16.00
HT20	5240	16.00
HT40	5190	16.00
HT40	5230	16.00

For Frequency band 5250-5350 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5260	16.00
11a	5300	16.00
11a	5320	16.00
HT20	5260	16.00
HT20	5300	16.00
HT20	5320	16.00
HT40	5270	16.00
HT40	5310	16.00

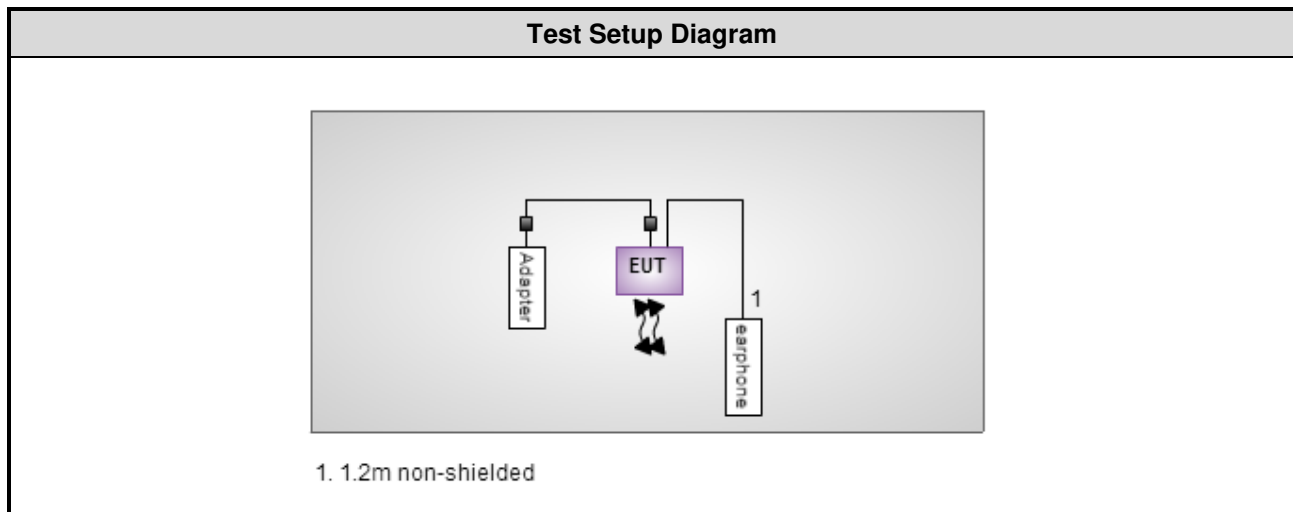
For Frequency band 5470-5725 MHz		
Modulation Mode	Test Frequency (MHz)	Power Set
11a	5500	16.00
11a	5580	16.00
11a	5700	16.00
HT20	5500	16.00
HT20	5580	16.00
HT20	5700	16.00
HT40	5510	16.00
HT40	5550	16.00
HT40	5670	16.00

1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Earphone	APPLE	MD827FE/A	6	---	1.2m non-shielded w/o core
2	Adapter	NTT docomo	AC Adapter 04	---	---	---
3	Notebook	DELL	Latitude E6440	JMXMD12	DoC	---

Note: Adapter is provided by applicant.

1.3 Test Setup Chart



Note: Notebook is disconnected from EUT and removed from test table when EUT is set to transmit continuously.

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 3 / (03CH03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 14, 2015	Sep. 13, 2016
Receiver	Agilent	N9038A	MY53290044	Oct. 14, 2015	Oct. 13, 2016
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-562	Nov. 16, 2015	Nov. 15, 2016
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 24, 2016	Feb. 23, 2017
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016
Preamplifier	EMC	EMC02325	980187	Sep. 21, 2015	Sep. 20, 2016
Preamplifier	Agilent	83017A	MY53270014	Sep. 07, 2015	Sep. 06, 2016
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 05, 2016	Feb. 04, 2017
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 05, 2016	Feb. 04, 2017
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 05, 2016	Feb. 04, 2017
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 05, 2016	Feb. 04, 2017
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 05, 2016	Feb. 04, 2017
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 05, 2016	Feb. 04, 2017
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
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 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	±3.66 dB
Radiated emission > 1GHz	±5.37 dB
Time	±0.1%
Temperature	±0.6 °C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 60%	Howard Huang
Radiated Emissions	03CH03-WS	20°C / 60-66%	Warren Lee Allen Yu
RF Conducted	TH01-WS	21°C / 67%	Anderson Hung

➤ FCC site registration No.: 207696

➤ IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate
Conducted Emissions	HT40	5230	MCS 0
Radiated Emissions ≤1GHz	HT40	5230	MCS 0
Radiated Emissions >1GHz RF Output Power Emission Bandwidth Peak Power Spectral Density	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
Frequency Stability	Un-modulation	5320	---
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.			

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

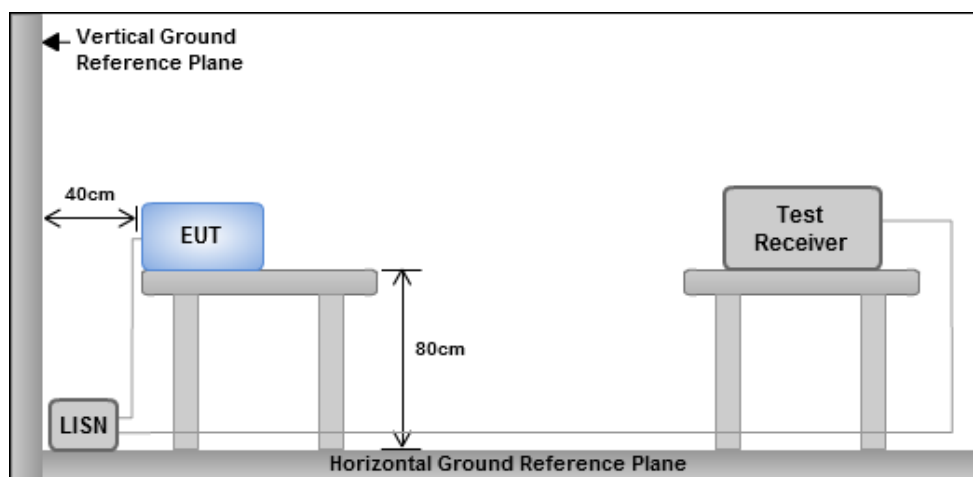
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

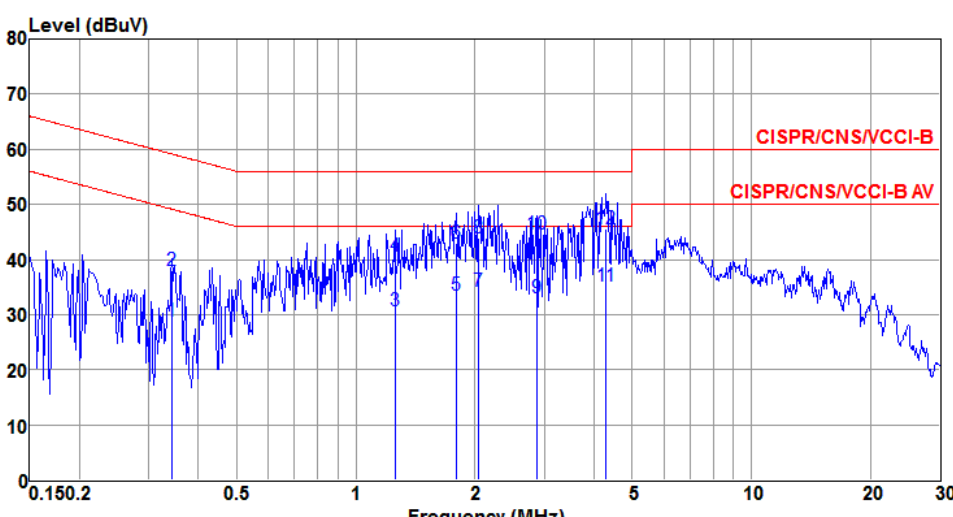
3.1.3 Test Setup



- 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

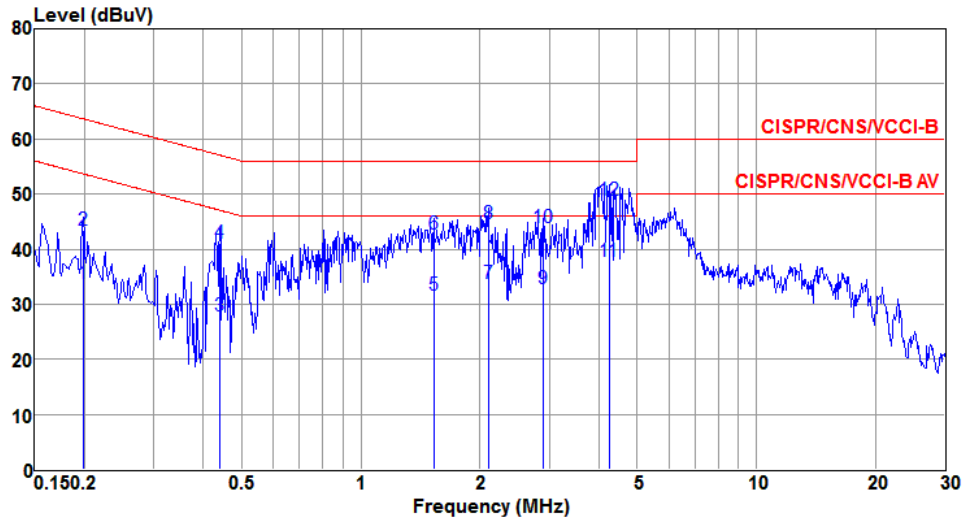
Modulation	HT40	Test Freq. (MHz)	5230
Power Phase	Line		



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1	0.343	28.73	49.13	-20.40	28.50	0.20	0.03	Average
2	0.343	38.05	59.13	-21.08	37.82	0.20	0.03	QP
3	1.255	30.61	46.00	-15.39	30.27	0.27	0.07	Average
4	1.255	40.53	56.00	-15.47	40.19	0.27	0.07	QP
5	1.800	33.53	46.00	-12.47	32.90	0.55	0.08	Average
6	1.800	42.95	56.00	-13.05	42.32	0.55	0.08	QP
7	2.044	34.31	46.00	-11.69	33.61	0.62	0.08	Average
8	2.044	43.84	56.00	-12.16	43.14	0.62	0.08	QP
9	2.869	33.14	46.00	-12.86	32.60	0.44	0.10	Average
10	2.869	44.72	56.00	-11.28	44.18	0.44	0.10	QP
11	4.292	35.12	46.00	-10.88	34.71	0.29	0.12	Average
12@	4.292	45.50	56.00	-10.50	45.09	0.29	0.12	QP

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

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



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.199	33.75	53.67	-19.92	33.47	0.26	0.02	Average
2	0.199	43.51	63.67	-20.16	43.23	0.26	0.02	QP
3	0.440	27.75	47.07	-19.32	27.58	0.14	0.03	Average
4	0.440	41.14	57.07	-15.93	40.97	0.14	0.03	QP
5	1.527	31.66	46.00	-14.34	31.35	0.24	0.07	Average
6	1.527	42.69	56.00	-13.31	42.38	0.24	0.07	QP
7	2.099	33.72	46.00	-12.28	33.38	0.26	0.08	Average
8	2.099	44.65	56.00	-11.35	44.31	0.26	0.08	QP
9	2.884	32.75	46.00	-13.25	32.16	0.49	0.10	Average
10	2.884	43.81	56.00	-12.19	43.22	0.49	0.10	QP
11	4.247	37.78	46.00	-8.22	36.93	0.73	0.12	Average
12@	4.247	48.89	56.00	-7.11	48.04	0.73	0.12	QP

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

3.2 Emission Bandwidth

3.2.1 Test Procedures

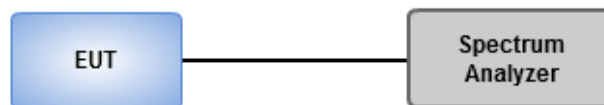
26dB Bandwidth

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

Occupied Bandwidth

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

3.2.2 Test Setup



3.2.3 Test Result of Emission Bandwidth

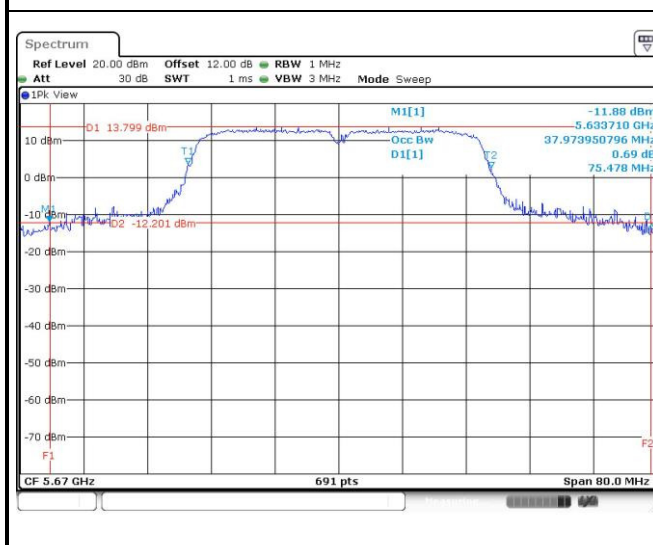
For Frequency band 5150~5250 MHz										
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3
11a	1	5180	22.55	---	---	---	17.19	---	---	---
11a	1	5200	23.65	---	---	---	17.19	---	---	---
11a	1	5240	22.67	---	---	---	17.13	---	---	---
HT20	1	5180	22.72	---	---	---	18.23	---	---	---
HT20	1	5200	22.90	---	---	---	18.12	---	---	---
HT20	1	5240	24.23	---	---	---	18.12	---	---	---
HT40	1	5190	58.90	---	---	---	36.74	---	---	---
HT40	1	5230	55.88	---	---	---	36.80	---	---	---

For Frequency band 5250~5350 MHz											
Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5260	22.96	---	---	---	17.16	---	---	---	24.00
11a	1	5300	25.16	---	---	---	17.22	---	---	---	24.00
11a	1	5320	22.78	---	---	---	17.13	---	---	---	24.00
HT20	1	5260	23.13	---	---	---	18.19	---	---	---	24.00
HT20	1	5300	25.86	---	---	---	18.14	---	---	---	24.00
HT20	1	5320	26.14	---	---	---	18.17	---	---	---	24.00
HT40	1	5270	59.36	---	---	---	36.68	---	---	---	24.00
HT40	1	5310	66.32	---	---	---	36.84	---	---	---	24.00

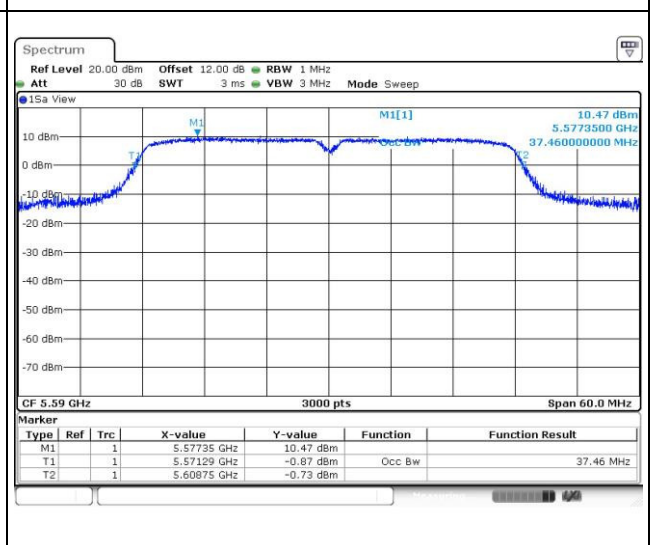
For Frequency band 5470~5725 MHz

Mode	N _{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5500	26.78	---	---	---	17.39	---	---	---	24.00
11a	1	5580	37.68	---	---	---	17.54	---	---	---	24.00
11a	1	5700	36.67	---	---	---	17.47	---	---	---	24.00
HT20	1	5500	29.62	---	---	---	18.22	---	---	---	24.00
HT20	1	5580	39.35	---	---	---	18.33	---	---	---	24.00
HT20	1	5700	38.19	---	---	---	18.32	---	---	---	24.00
HT40	1	5510	73.51	---	---	---	36.90	---	---	---	24.00
HT40	1	5590	74.55	---	---	---	37.46	---	---	---	24.00
HT40	1	5670	75.48	---	---	---	37.18	---	---	---	24.00

Worst Plot of 26dB Bandwidth



Worst Plot of 99% Bandwidth



3.3 RF Output Power

3.3.1 Limit of RF Output Power

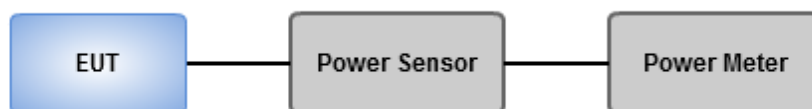
Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☐	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☒	Client devices	Conducted Power: 250 mW

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

3.3.2 Test Procedures

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

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

For Frequency band 5150~5250 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5180	15.21	---	---	---	33.189	15.21	24.00
11a	1	5200	15.48	---	---	---	35.318	15.48	24.00
11a	1	5240	15.46	---	---	---	35.156	15.46	24.00
HT20	1	5180	15.21	---	---	---	33.189	15.21	24.00
HT20	1	5200	15.46	---	---	---	35.156	15.46	24.00
HT20	1	5240	15.41	---	---	---	34.754	15.41	24.00
HT40	1	5190	15.89	---	---	---	38.815	15.89	24.00
HT40	1	5230	16.15	---	---	---	41.210	16.15	24.00

For Frequency band 5250~5350 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5260	15.47	---	---	---	35.237	15.47	24.00
11a	1	5300	15.49	---	---	---	35.400	15.49	24.00
11a	1	5320	15.23	---	---	---	33.343	15.23	24.00
HT20	1	5260	15.44	---	---	---	34.995	15.44	24.00
HT20	1	5300	15.45	---	---	---	35.075	15.45	24.00
HT20	1	5320	15.25	---	---	---	33.497	15.25	24.00
HT40	1	5270	15.94	---	---	---	39.264	15.94	24.00
HT40	1	5310	15.99	---	---	---	39.719	15.99	24.00

For Frequency band 5470~5725 MHz									
Mode	N _{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5500	15.28	---	---	---	33.729	15.28	24.00
11a	1	5580	15.29	---	---	---	33.806	15.29	24.00
11a	1	5700	15.21	---	---	---	33.189	15.21	24.00
HT20	1	5500	15.16	---	---	---	32.810	15.16	24.00
HT20	1	5580	15.32	---	---	---	34.041	15.32	24.00
HT20	1	5700	15.29	---	---	---	33.806	15.29	24.00
HT40	1	5510	15.48	---	---	---	35.318	15.48	24.00
HT40	1	5590	15.92	---	---	---	39.084	15.92	24.00
HT40	1	5670	15.87	---	---	---	38.637	15.87	24.00

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

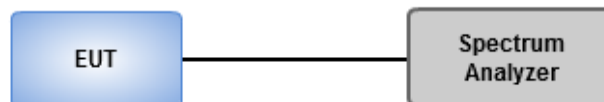
Frequency band 5150-5250 MHz		
Operating Mode		Limit
☐	Outdoor access point	17 dBm / MHz
☐	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☒	Mobile and portable client devices	11 dBm / MHz

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

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 $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$.
 3. Perform a single sweep.
 4. Use the peak marker function to determine the maximum amplitude level.
 5. Add $10 \log(1/x)$, where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

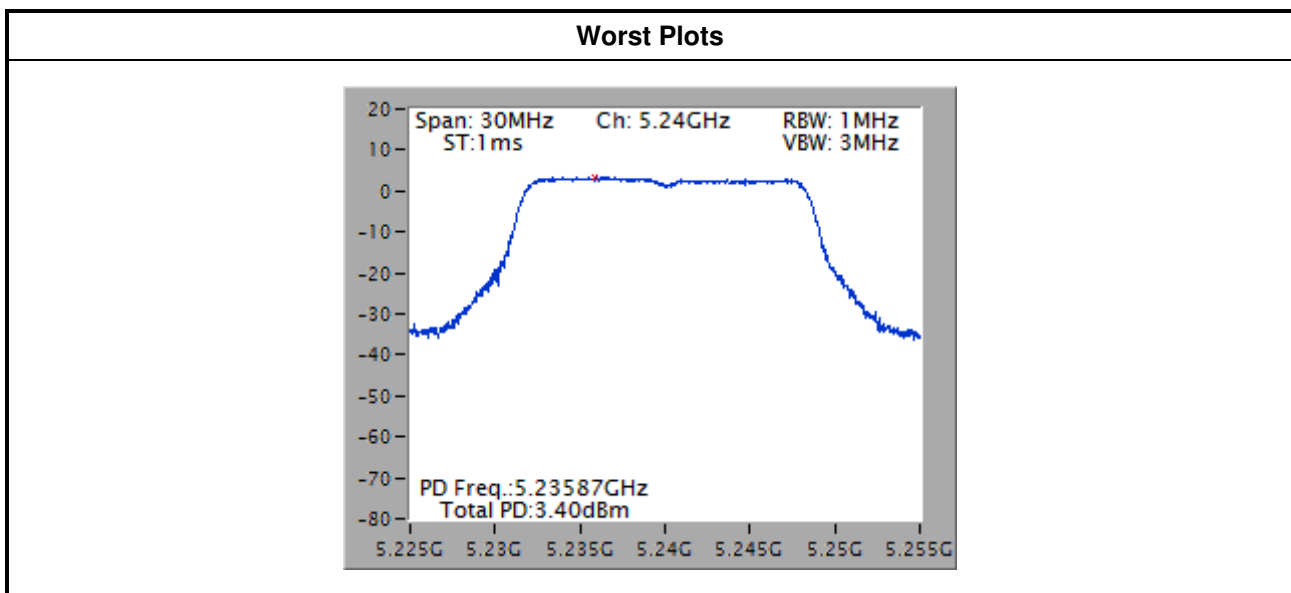
Frequency band			5150~5250 MHz			
Condition			Peak Power Spectral Density (dBm/MHz)			
Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/MHz)	Duty Factor (dB)	PPSD with D.F (dBm/MHz)	PPSD Limit (dBm/MHz)
11a	1	5180	2.66	0.00	2.66	11
11a	1	5200	2.88	0.00	2.88	11
11a	1	5240	3.40	0.00	3.40	11
HT20	1	5180	3.21	0.00	3.21	11
HT20	1	5200	2.67	0.00	2.67	11
HT20	1	5240	2.87	0.00	2.87	11
HT40	1	5190	0.65	0.00	0.65	11
HT40	1	5230	0.84	0.00	0.84	11

Frequency band			5250~5350 MHz			
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	1	5260	2.88	0.00	2.88	11
11a	1	5300	3.17	0.00	3.17	11
11a	1	5320	2.87	0.00	2.87	11
HT20	1	5260	2.76	0.00	2.76	11
HT20	1	5300	2.97	0.00	2.97	11
HT20	1	5320	2.83	0.00	2.83	11
HT40	1	5270	0.39	0.00	0.39	11
HT40	1	5310	0.65	0.00	0.65	11

Note: D.F is duty factor.

Frequency band			5475~5725 MHz			
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	1	5500	2.99	0.00	2.99	11
11a	1	5580	3.21	0.00	3.21	11
11a	1	5700	2.67	0.00	2.67	11
HT20	1	5500	3.17	0.00	3.17	11
HT20	1	5580	2.78	0.00	2.78	11
HT20	1	5700	2.82	0.00	2.82	11
HT40	1	5510	0.69	0.00	0.69	11
HT40	1	5590	0.68	0.00	0.68	11
HT40	1	5670	0.50	0.00	0.50	11

Note: D.F is duty factor.



3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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

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

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

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]

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

3.5.2 Test Procedures

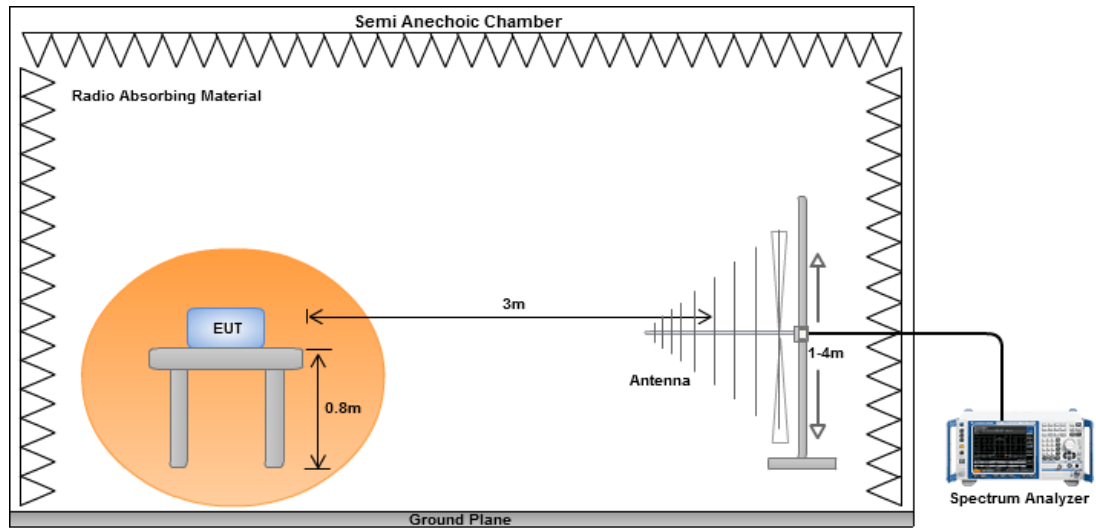
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

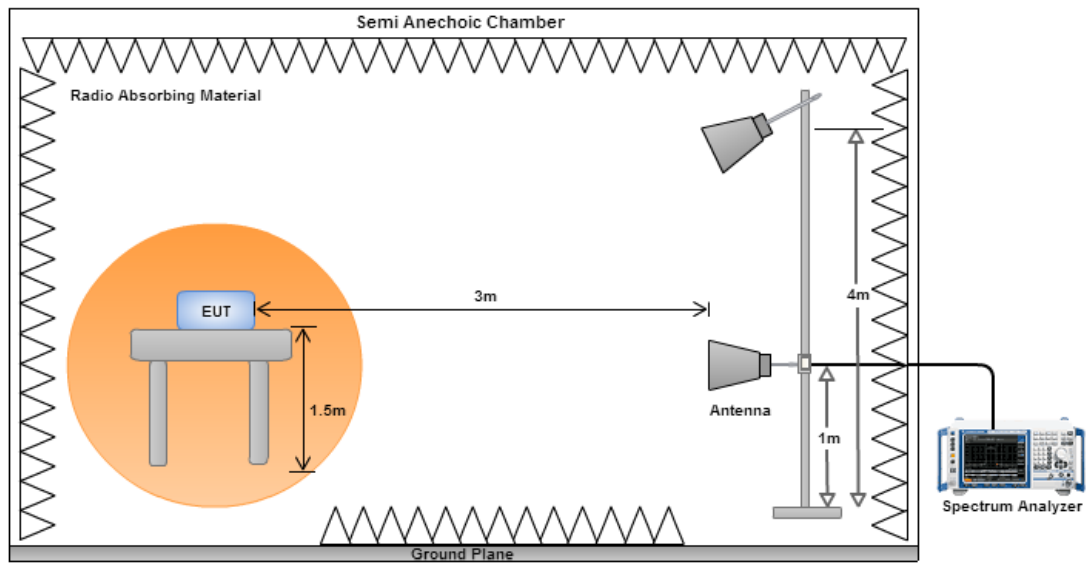
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



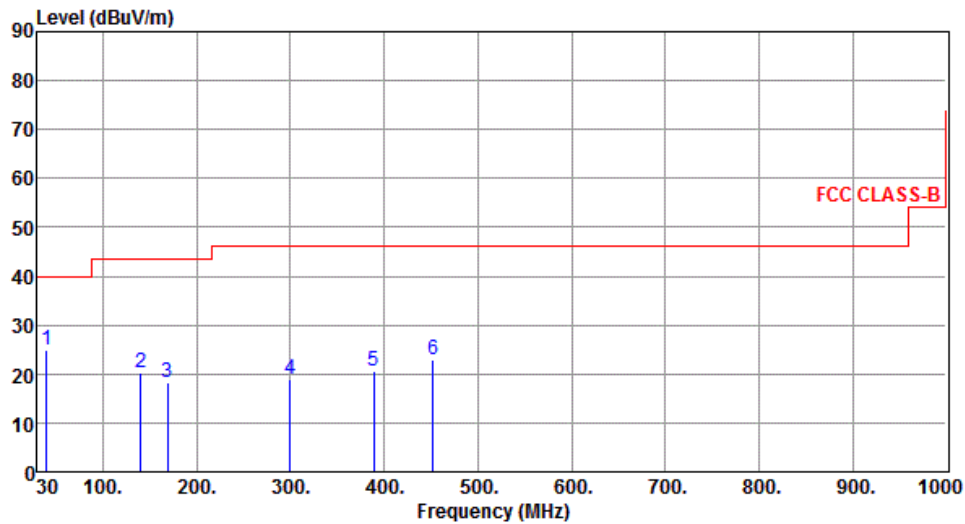
Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Horizontal		
Level (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	39.70	24.96	40.00	-15.04	38.31	-13.35	Peak	---	---
2	140.58	20.37	43.50	-23.13	34.03	-13.66	Peak	---	---
3	168.71	18.26	43.50	-25.24	32.07	-13.81	Peak	---	---
4	299.66	18.95	46.00	-27.05	31.79	-12.84	Peak	---	---
5	388.90	20.53	46.00	-25.47	30.99	-10.46	Peak	---	---
6	451.95	22.91	46.00	-23.09	31.67	-8.76	Peak	---	---

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

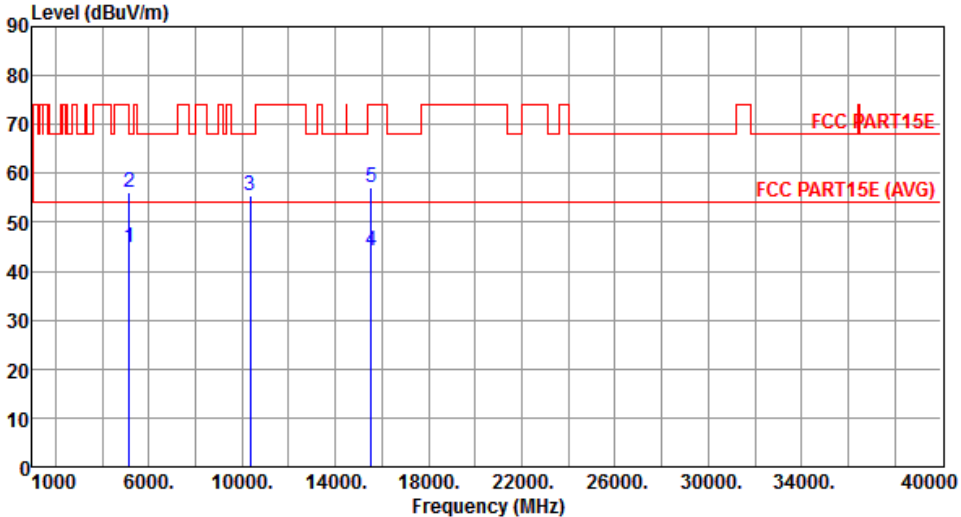
*Factor includes antenna factor , cable loss and amplifier gain

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

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

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

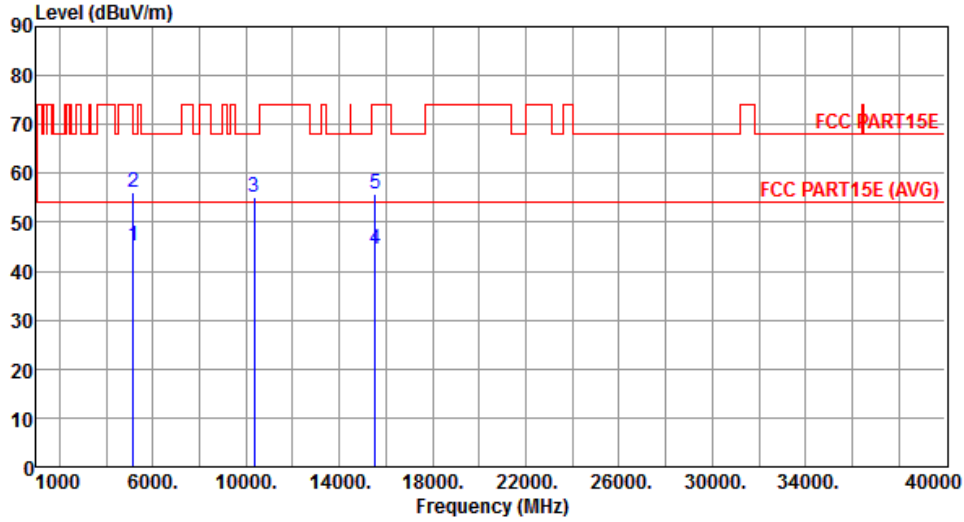
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		



	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	44.85	54.00	-9.15	38.99	5.86	Average	100	222
2	5150.00	56.07	74.00	-17.93	50.21	5.86	Peak	100	222
3	10360.00	55.37	68.20	-12.83	40.14	15.23	Peak	231	85
4	15540.00	44.33	54.00	-9.67	28.26	16.07	Average	217	130
5	15540.00	57.05	74.00	-16.95	40.98	16.07	Peak	217	130

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

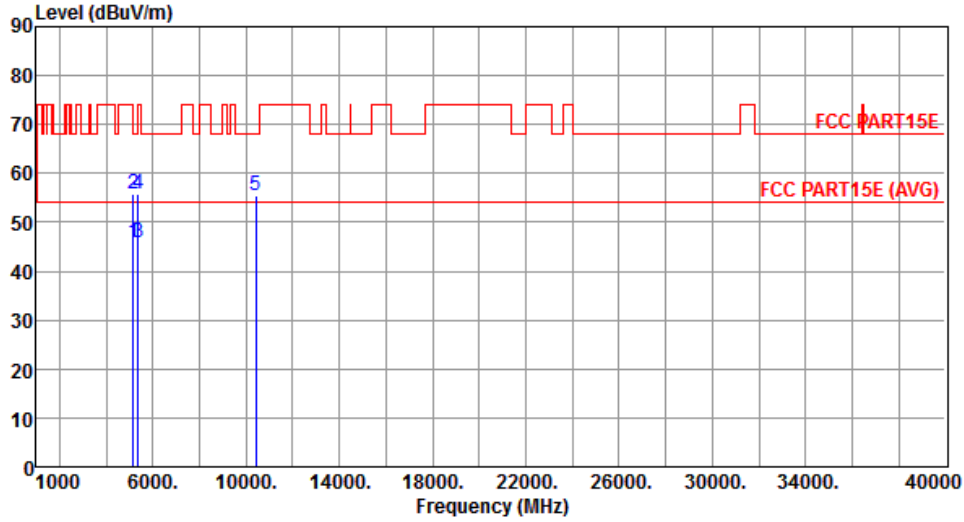
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.12	54.00	-8.88	39.26	5.86	Average	235	296
2	5150.00	56.12	74.00	-17.88	50.26	5.86	Peak	235	296
3	10360.00	55.12	68.20	-13.08	39.89	15.23	Peak	182	330
4	15540.00	44.42	54.00	-9.58	28.35	16.07	Average	250	77
5	15540.00	55.94	74.00	-18.06	39.87	16.07	Peak	250	77

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

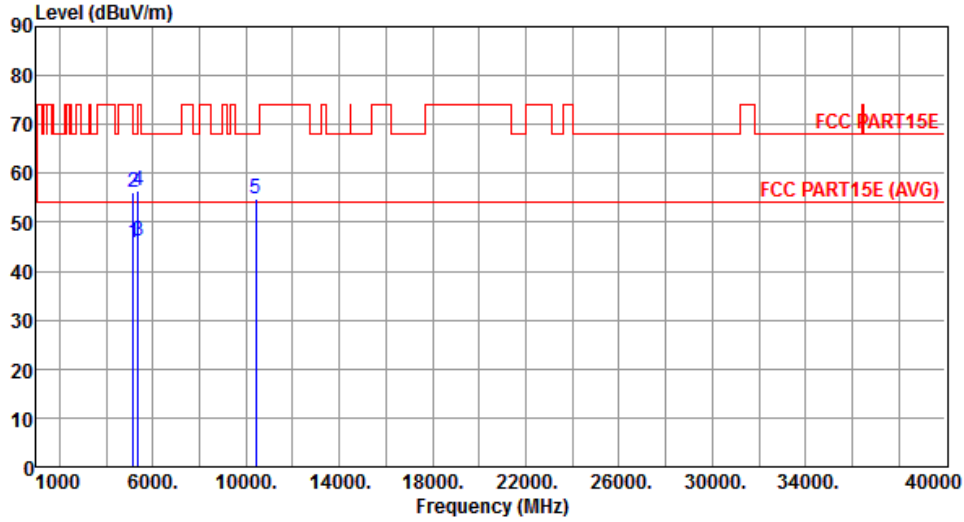
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.81	54.00	-8.19	39.95	5.86	Average	108	227
2	5150.00	55.75	74.00	-18.25	49.89	5.86	Peak	108	227
3	5350.00	45.87	54.00	-8.13	39.66	6.21	Average	108	227
4	5350.00	55.81	74.00	-18.19	49.60	6.21	Peak	108	227
5	10400.00	55.41	68.20	-12.79	40.13	15.28	Peak	227	92

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

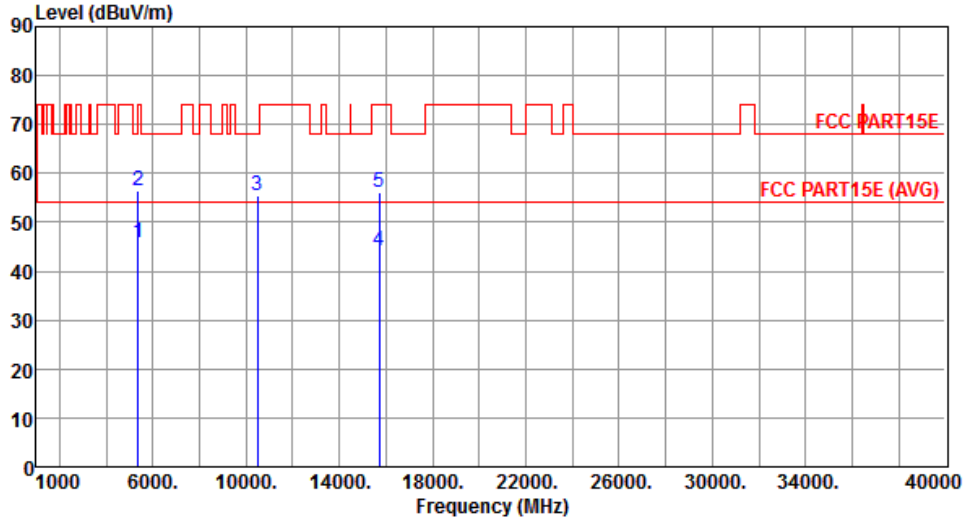
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.75	54.00	-8.25	39.89	5.86	Average	215	314
2	5150.00	55.97	74.00	-18.03	50.11	5.86	Peak	215	314
3	5350.00	46.10	54.00	-7.90	39.89	6.21	Average	215	314
4	5350.00	56.31	74.00	-17.69	50.10	6.21	Peak	215	314
5	10400.00	54.85	68.20	-13.35	39.57	15.28	Peak	184	354

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

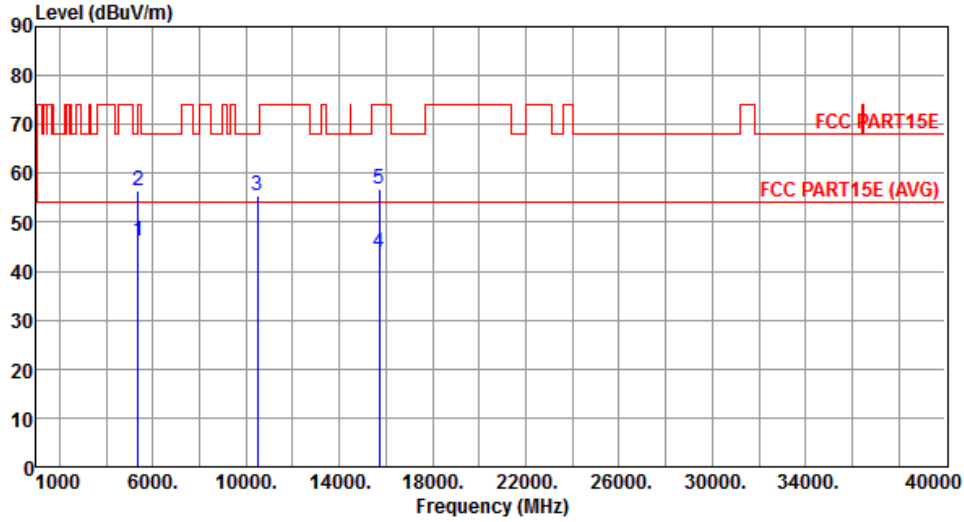
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	45.81	54.00	-8.19	39.60	6.21	Average	100	172
2	5350.00	56.51	74.00	-17.49	50.30	6.21	Peak	100	172
3	10480.00	55.54	68.20	-12.66	40.18	15.36	Peak	232	117
4	15720.00	44.10	54.00	-9.90	28.26	15.84	Average	208	146
5	15720.00	56.13	74.00	-17.87	40.29	15.84	Peak	208	146

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

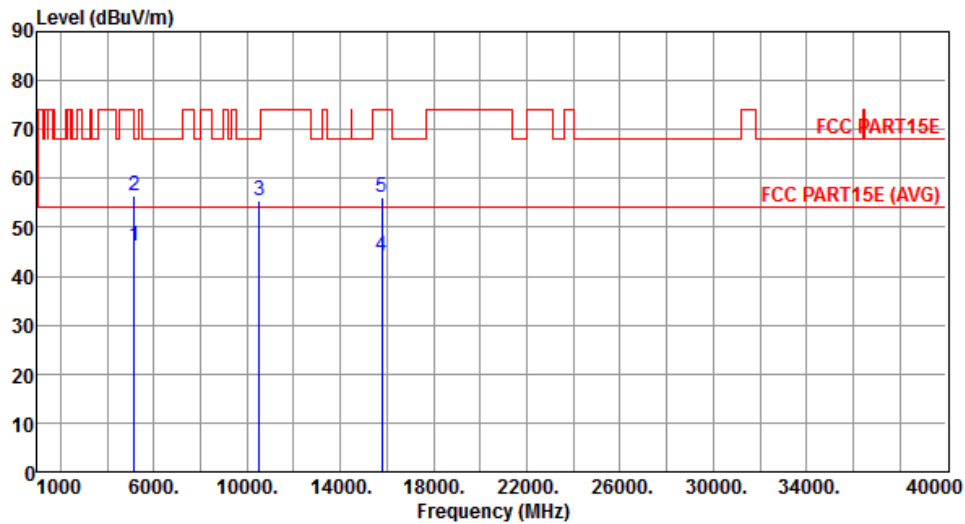
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	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	46.03	54.00	-7.97	39.82	6.21	Average	196	320
2	5350.00	56.39	74.00	-17.61	50.18	6.21	Peak	196	320
3	10480.00	55.56	68.20	-12.64	40.20	15.36	Peak	231	82
4	15720.00	43.89	54.00	-10.11	28.05	15.84	Average	245	83
5	15720.00	56.74	74.00	-17.26	40.90	15.84	Peak	245	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	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



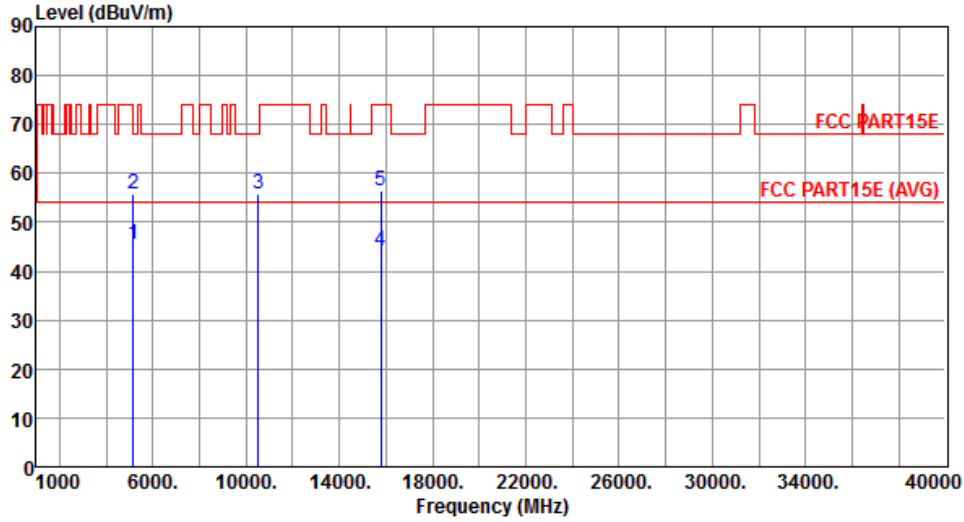
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.11	54.00	-7.89	40.25	5.86	Average	100	220
2	5150.00	56.48	74.00	-17.52	50.62	5.86	Peak	100	220
3	10520.00	55.60	68.20	-12.60	40.19	15.41	Peak	231	92
4	15780.00	44.25	54.00	-9.75	28.48	15.77	Average	209	141
5	15780.00	56.24	74.00	-17.76	40.47	15.77	Peak	209	141

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

*Factor includes antenna factor , cable loss and amplifier gain

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

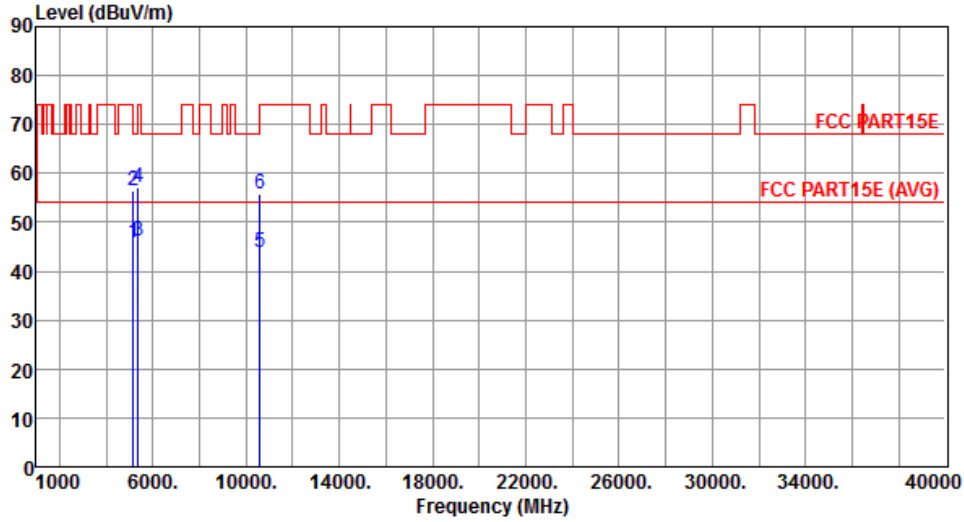
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.45	54.00	-8.55	39.59	5.86	Average	197	317
2	5150.00	55.92	74.00	-18.08	50.06	5.86	Peak	197	317
3	10520.00	55.66	68.20	-12.54	40.25	15.41	Peak	185	327
4	15780.00	44.28	54.00	-9.72	28.51	15.77	Average	247	100
5	15780.00	56.36	74.00	-17.64	40.59	15.77	Peak	247	100

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

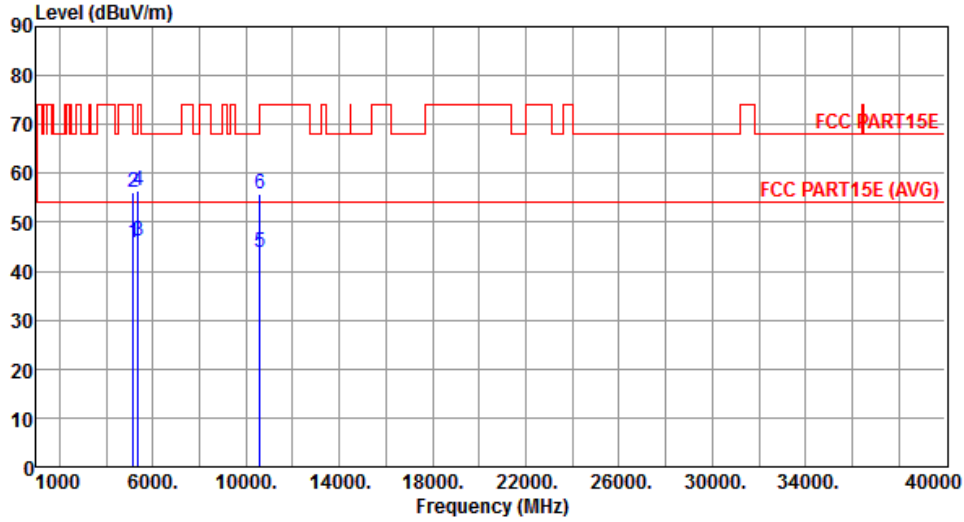
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.85	54.00	-8.15	39.99	5.86	Average	100	228
2	5150.00	56.47	74.00	-17.53	50.61	5.86	Peak	100	228
3	5350.00	46.11	54.00	-7.89	39.90	6.21	Average	100	228
4	5350.00	57.10	74.00	-16.90	50.89	6.21	Peak	100	228
5	10600.00	43.81	54.00	-10.19	28.35	15.46	Average	228	84
6	10600.00	55.64	74.00	-18.36	40.18	15.46	Peak	228	84

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

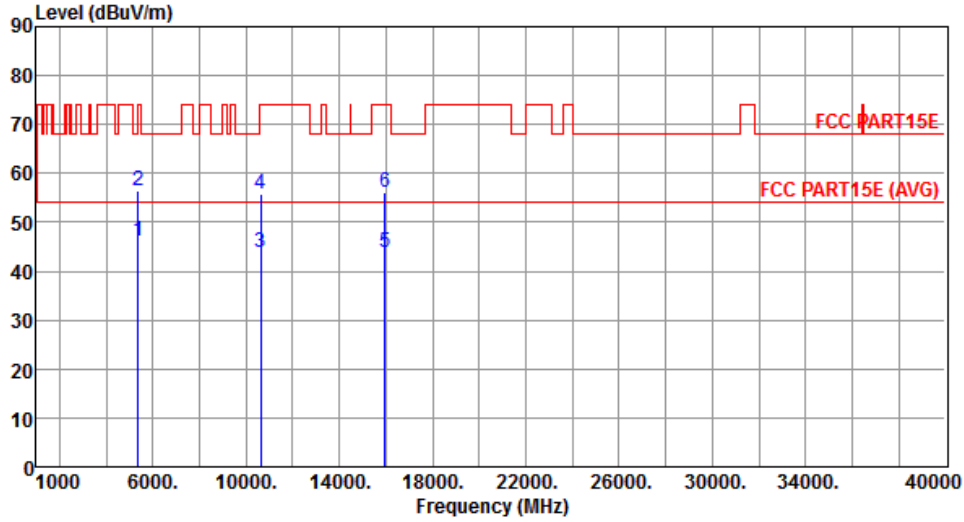
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.73	54.00	-8.27	39.87	5.86	Average	207	319
2	5150.00	56.11	74.00	-17.89	50.25	5.86	Peak	207	319
3	5350.00	46.03	54.00	-7.97	39.82	6.21	Average	207	319
4	5350.00	56.43	74.00	-17.57	50.22	6.21	Peak	207	319
5	10600.00	43.79	54.00	-10.21	28.33	15.46	Average	180	324
6	10600.00	55.65	74.00	-18.35	40.19	15.46	Peak	180	324

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/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		



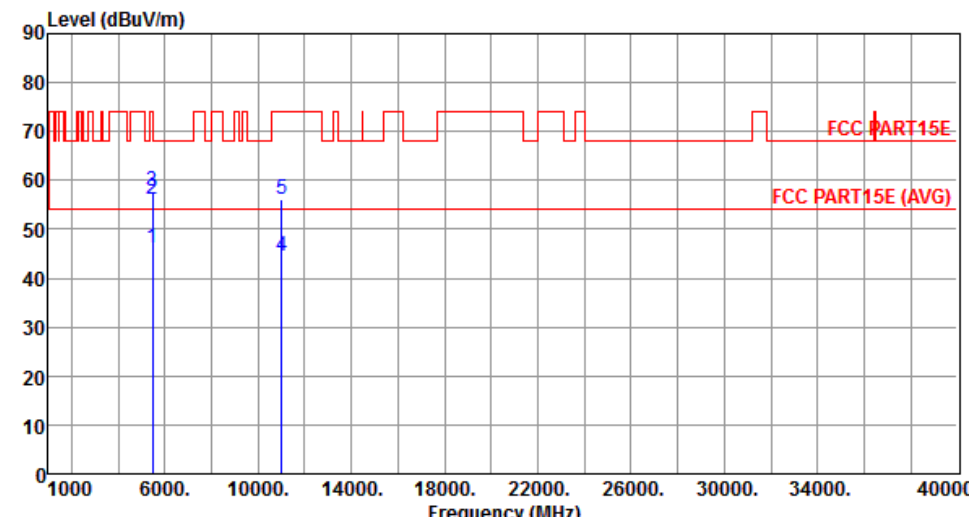
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.21	54.00	-7.79	40.00	6.21	Average	100	224
2	5350.00	56.52	74.00	-17.48	50.31	6.21	Peak	100	224
3	10640.00	43.85	54.00	-10.15	28.36	15.49	Average	283	100
4	10640.00	55.85	74.00	-18.15	40.36	15.49	Peak	283	100
5	15960.00	43.93	54.00	-10.07	28.39	15.54	Average	208	157
6	15960.00	56.20	74.00	-17.80	40.66	15.54	Peak	208	157

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/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		
Level (dBuV/m) <			

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

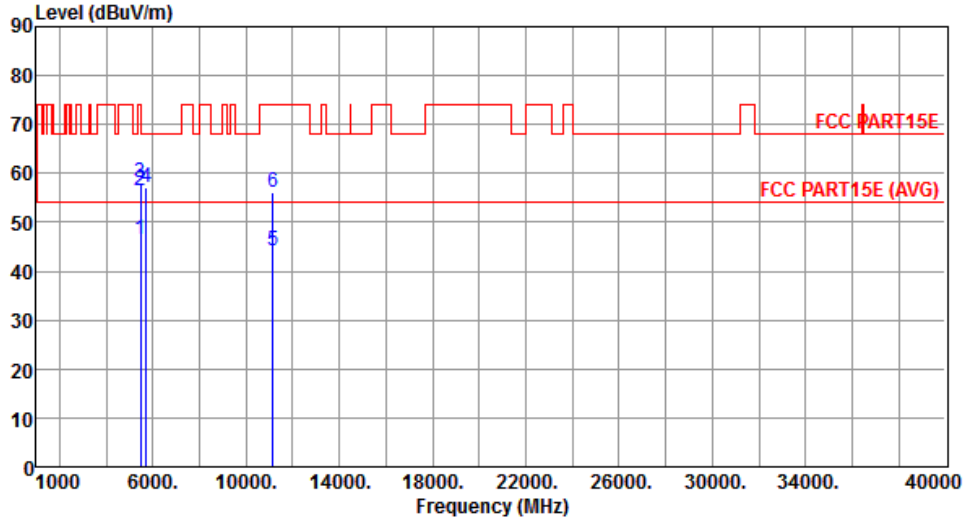


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.25	54.00	-7.75	39.88	6.37	Average	163	318
2	5460.00	55.96	74.00	-18.04	49.59	6.37	Peak	163	318
3	5470.00	57.67	68.20	-10.53	51.29	6.38	Peak	163	318
4	11000.00	44.48	54.00	-9.52	28.73	15.75	Average	200	127
5	11000.00	56.14	74.00	-17.86	40.39	15.75	Peak	200	127

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/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		
Level (dBuV/m)			

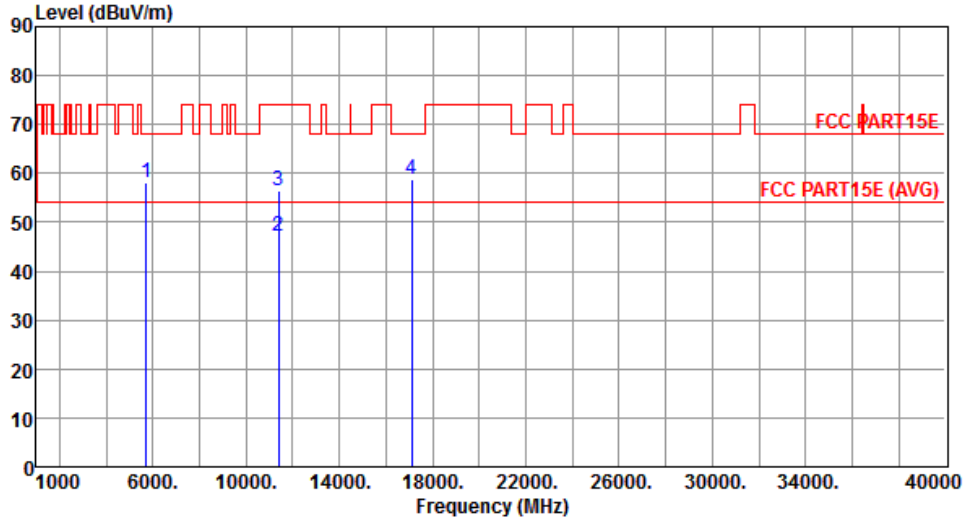
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.36	54.00	-7.64	39.99	6.37	Average	150	325
2	5460.00	56.45	74.00	-17.55	50.08	6.37	Peak	150	325
3	5470.00	57.97	68.20	-10.23	51.59	6.38	Peak	150	325
4	5725.00	57.10	68.20	-11.10	50.26	6.84	Peak	150	325
5	11160.00	44.13	54.00	-9.87	28.29	15.84	Average	160	290
6	11160.00	56.02	74.00	-17.98	40.18	15.84	Peak	160	290

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

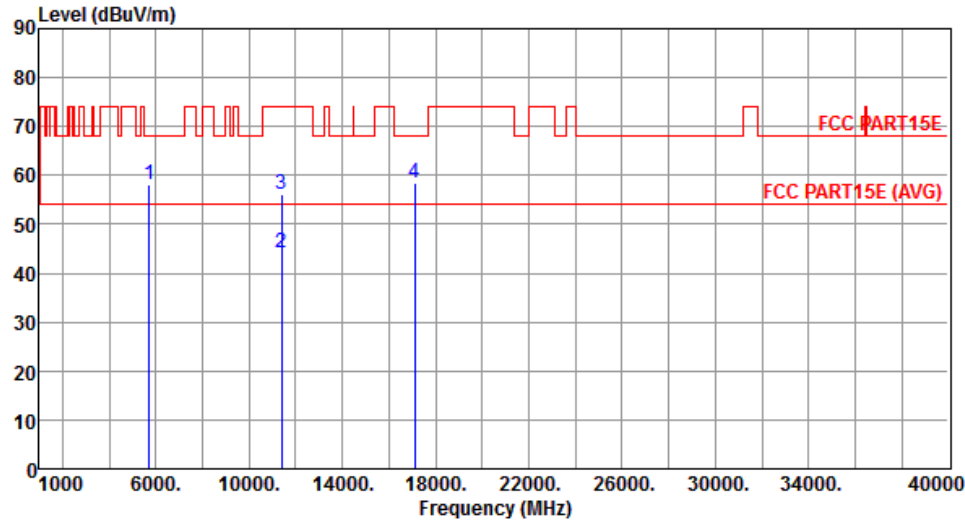
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	58.14	68.20	-10.06	51.30	6.84	Peak	219	232
2	11400.00	47.13	54.00	-6.87	31.16	15.97	Average	265	160
3	11400.00	56.41	74.00	-17.59	40.44	15.97	Peak	265	160
4	17100.00	58.65	68.20	-9.55	40.69	17.96	Peak	219	143

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/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	58.10	68.20	-10.10	51.26	6.84	Peak	139	321
2	11400.00	44.31	54.00	-9.69	28.34	15.97	Average	162	277
3	11400.00	56.26	74.00	-17.74	40.29	15.97	Peak	162	277
4	17100.00	58.35	68.20	-9.85	40.39	17.96	Peak	265	100

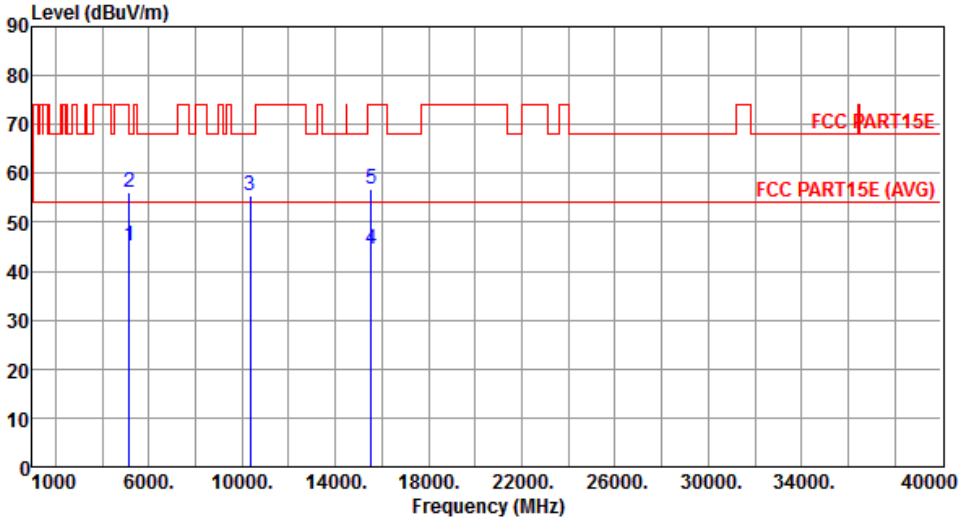
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

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

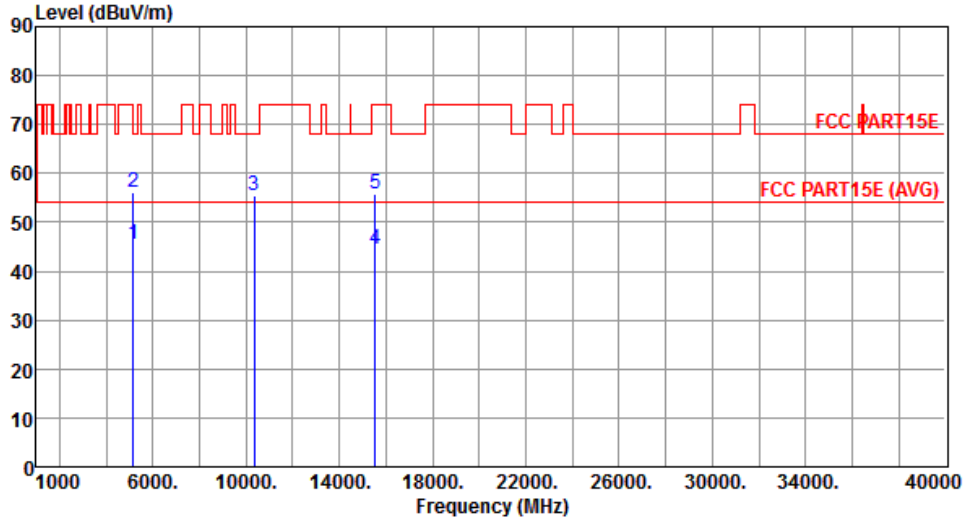
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.21	54.00	-8.79	39.35	5.86	Average	100	222
2	5150.00	56.20	74.00	-17.80	50.34	5.86	Peak	100	222
3	10360.00	55.52	68.20	-12.68	40.29	15.23	Peak	232	86
4	15540.00	44.61	54.00	-9.39	28.54	16.07	Average	203	157
5	15540.00	56.94	74.00	-17.06	40.87	16.07	Peak	203	157

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

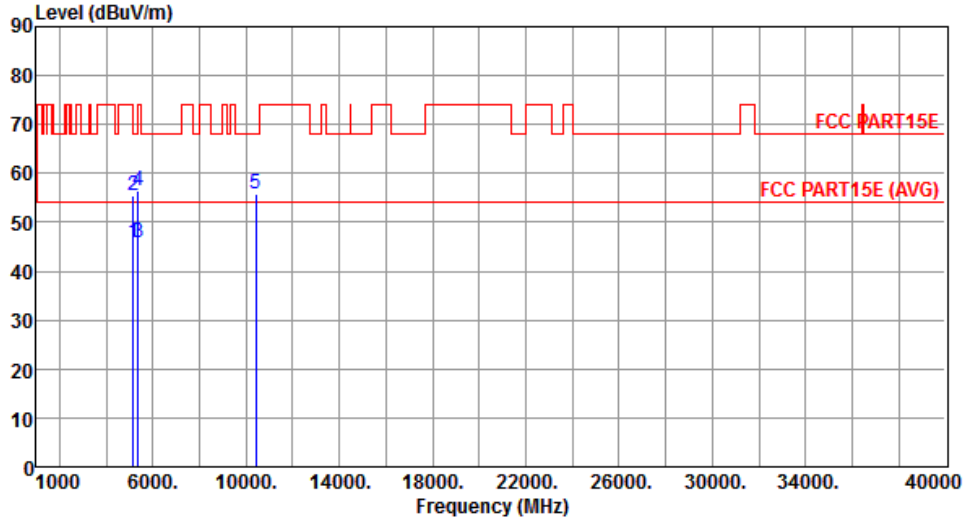
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.50	54.00	-8.50	39.64	5.86	Average	236	295
2	5150.00	56.22	74.00	-17.78	50.36	5.86	Peak	236	295
3	10360.00	55.38	68.20	-12.82	40.15	15.23	Peak	183	327
4	15540.00	44.37	54.00	-9.63	28.30	16.07	Average	251	91
5	15540.00	55.94	74.00	-18.06	39.87	16.07	Peak	251	91

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

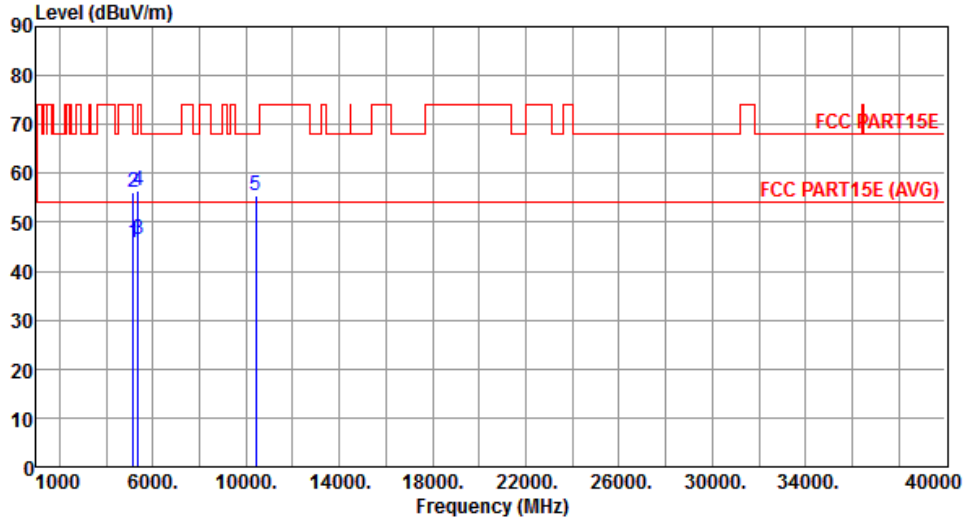
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.92	54.00	-8.08	40.06	5.86	Average	100	225
2	5150.00	55.43	74.00	-18.57	49.57	5.86	Peak	100	225
3	5350.00	45.78	54.00	-8.22	39.57	6.21	Average	100	225
4	5350.00	56.36	74.00	-17.64	50.15	6.21	Peak	100	225
5	10400.00	55.68	68.20	-12.52	40.40	15.28	Peak	228	103

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

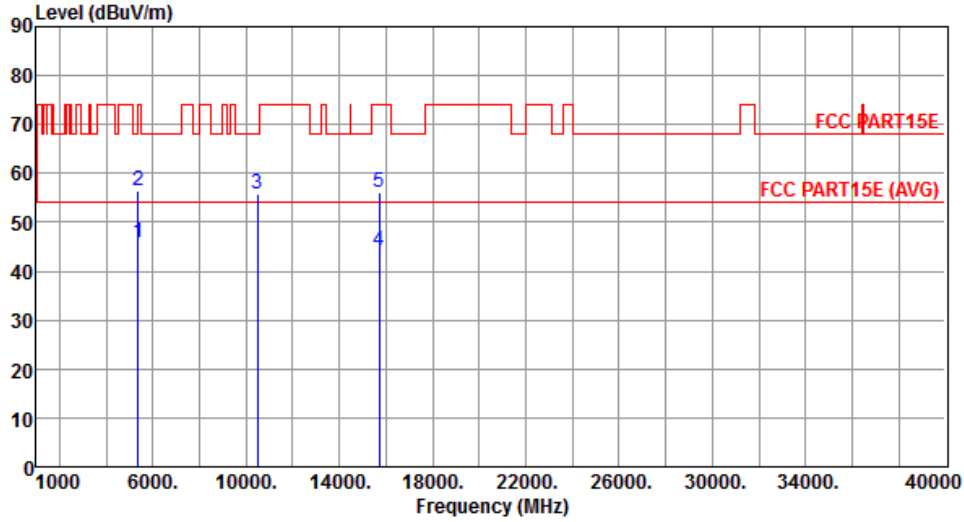
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.88	54.00	-8.12	40.02	5.86	Average	216	314
2	5150.00	56.12	74.00	-17.88	50.26	5.86	Peak	216	314
3	5350.00	46.51	54.00	-7.49	40.30	6.21	Average	216	314
4	5350.00	56.40	74.00	-17.60	50.19	6.21	Peak	216	314
5	10400.00	55.43	68.20	-12.77	40.15	15.28	Peak	185	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).

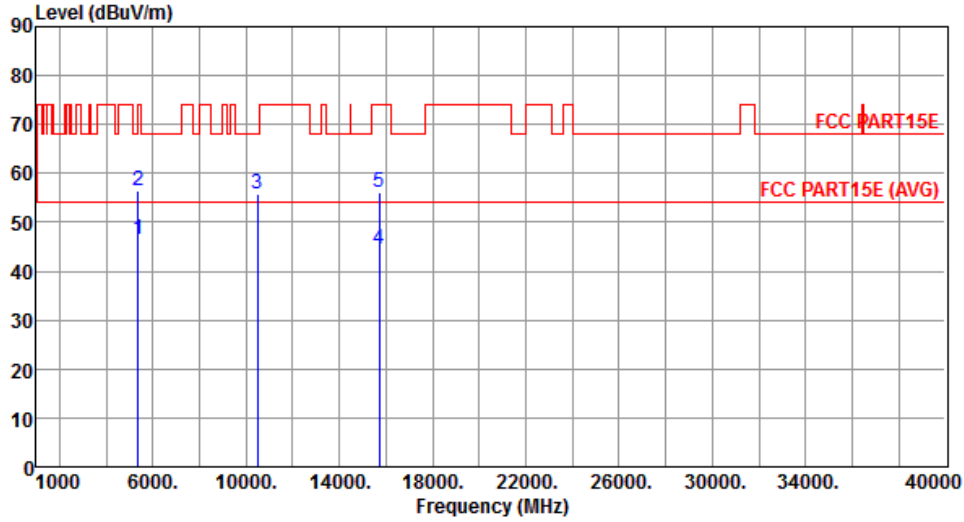
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	45.80	54.00	-8.20	39.59	6.21	Average	100	184
2	5350.00	56.57	74.00	-17.43	50.36	6.21	Peak	100	184
3	10480.00	55.65	68.20	-12.55	40.29	15.36	Peak	230	118
4	15720.00	44.19	54.00	-9.81	28.35	15.84	Average	209	157
5	15720.00	56.09	74.00	-17.91	40.25	15.84	Peak	209	157

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

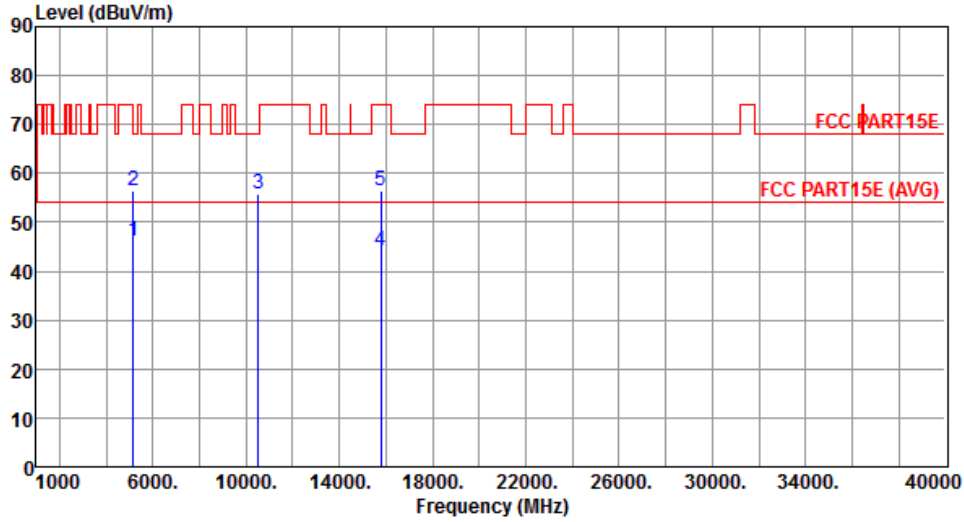
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	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	46.47	54.00	-7.53	40.26	6.21	Average	196	325
2	5350.00	56.47	74.00	-17.53	50.26	6.21	Peak	196	325
3	10480.00	55.65	68.20	-12.55	40.29	15.36	Peak	232	78
4	15720.00	44.40	54.00	-9.60	28.56	15.84	Average	245	130
5	15720.00	55.97	74.00	-18.03	40.13	15.84	Peak	245	130

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

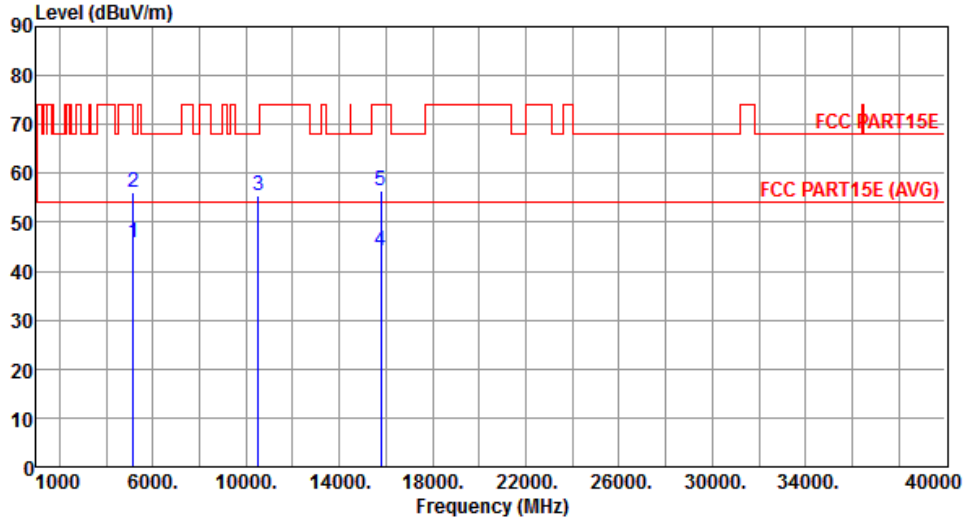
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.15	54.00	-7.85	40.29	5.86	Average	100	221
2	5150.00	56.37	74.00	-17.63	50.51	5.86	Peak	100	221
3	10520.00	55.65	68.20	-12.55	40.24	15.41	Peak	232	91
4	15780.00	44.12	54.00	-9.88	28.35	15.77	Average	211	152
5	15780.00	56.34	74.00	-17.66	40.57	15.77	Peak	211	152

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

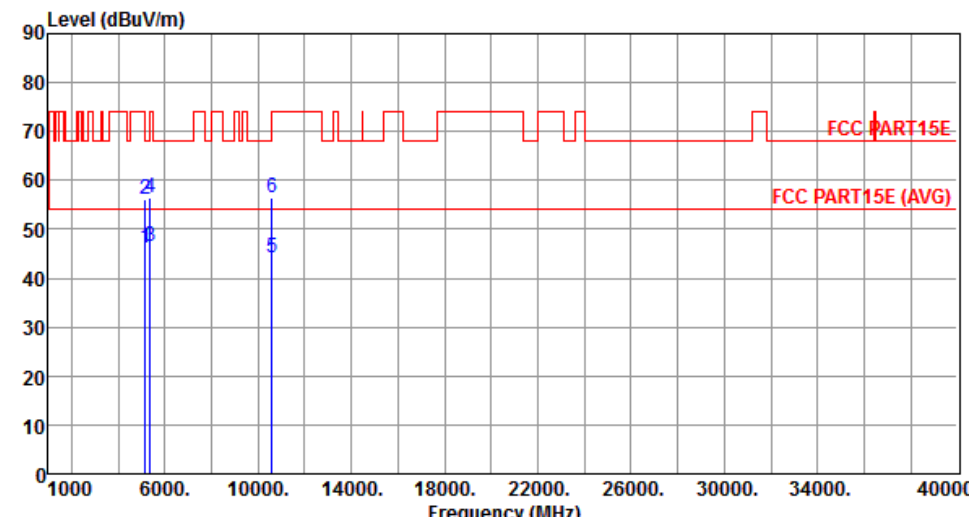
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.73	54.00	-8.27	39.87	5.86	Average	197	320
2	5150.00	56.04	74.00	-17.96	50.18	5.86	Peak	197	320
3	10520.00	55.58	68.20	-12.62	40.17	15.41	Peak	195	330
4	15780.00	44.33	54.00	-9.67	28.56	15.77	Average	253	98
5	15780.00	56.35	74.00	-17.65	40.58	15.77	Peak	253	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).

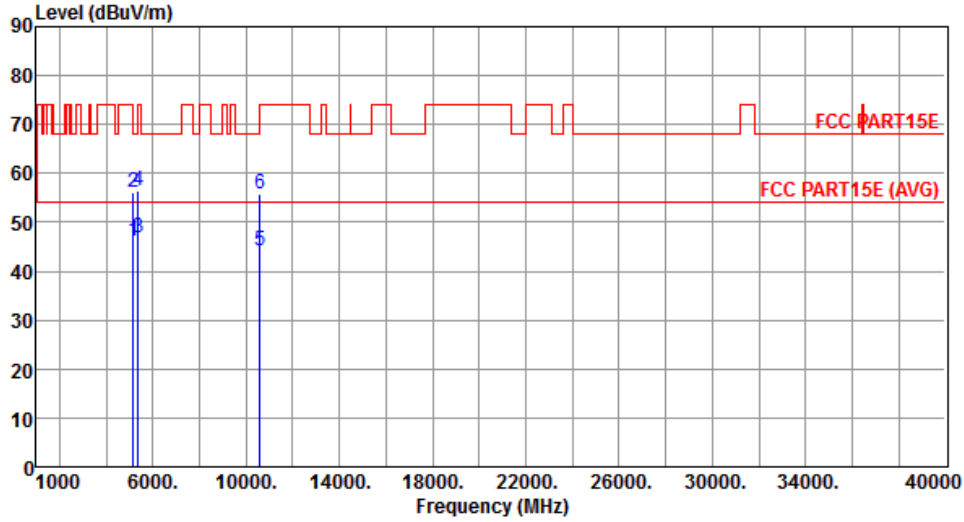
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.01	54.00	-7.99	40.15	5.86	Average	100	228
2	5150.00	56.11	74.00	-17.89	50.25	5.86	Peak	100	228
3	5350.00	46.37	54.00	-7.63	40.16	6.21	Average	100	228
4	5350.00	56.41	74.00	-17.59	50.20	6.21	Peak	100	228
5	10600.00	44.02	54.00	-9.98	28.56	15.46	Average	231	81
6	10600.00	56.42	74.00	-17.58	40.96	15.46	Peak	321	81

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

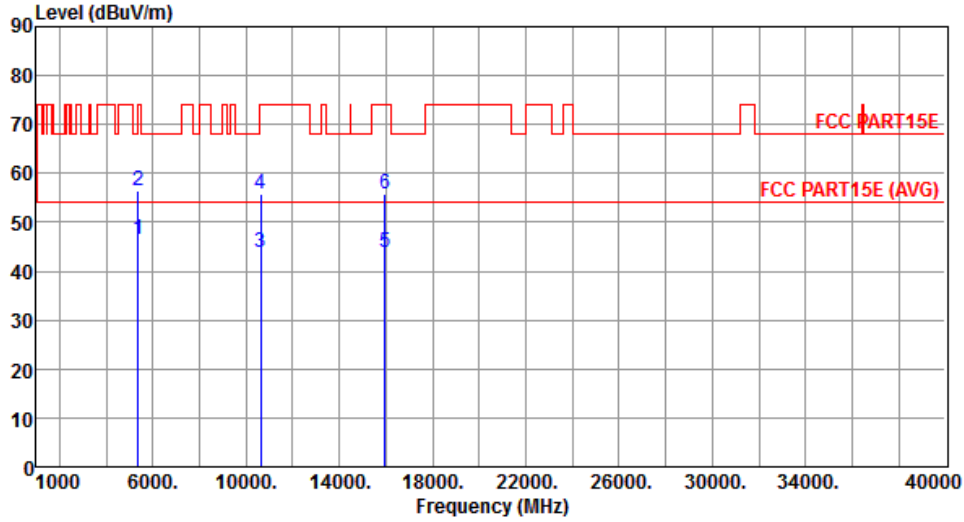
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.15	54.00	-7.85	40.29	5.86	Average	200	315
2	5150.00	56.04	74.00	-17.96	50.18	5.86	Peak	200	315
3	5350.00	46.80	54.00	-7.20	40.59	6.21	Average	200	315
4	5350.00	56.40	74.00	-17.60	50.19	6.21	Peak	200	315
5	10600.00	44.05	54.00	-9.95	28.59	15.46	Average	192	335
6	10600.00	55.81	74.00	-18.19	40.35	15.46	Peak	192	335

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

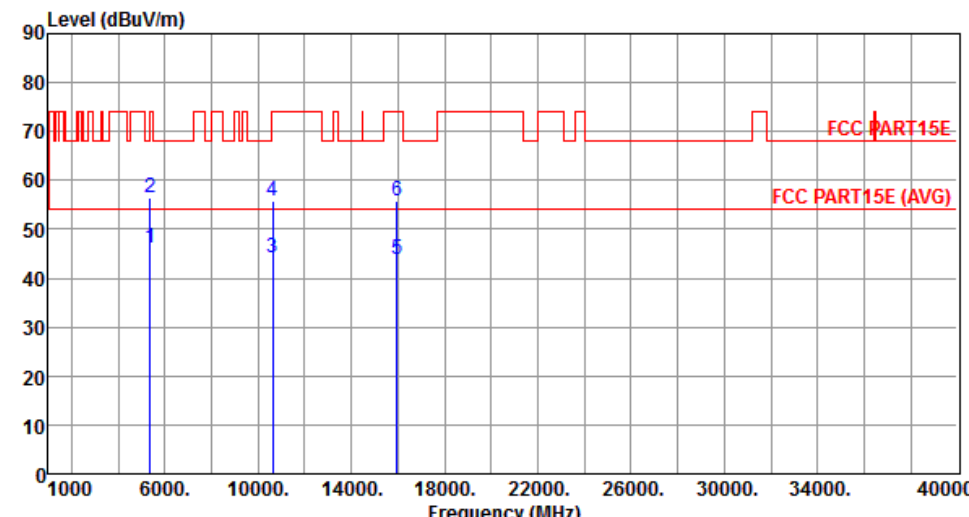
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	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	46.48	54.00	-7.52	40.27	6.21	Average	100	225
2	5350.00	56.40	74.00	-17.60	50.19	6.21	Peak	100	225
3	10640.00	43.94	54.00	-10.06	28.45	15.49	Average	274	98
4	10640.00	55.77	74.00	-18.23	40.28	15.49	Peak	274	98
5	15960.00	43.99	54.00	-10.01	28.45	15.54	Average	209	145
6	15960.00	55.89	74.00	-18.11	40.35	15.54	Peak	209	145

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

Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical		

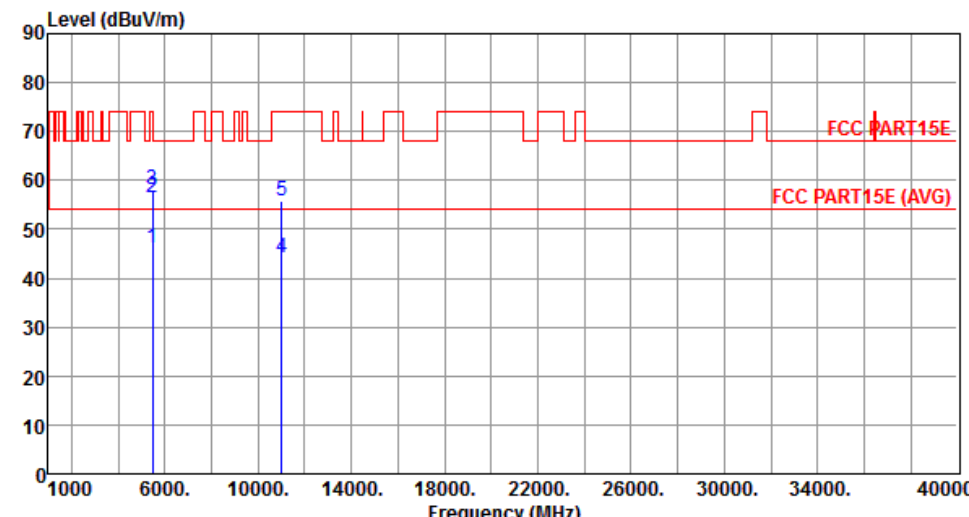


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.33	54.00	-7.67	40.12	6.21	Average	207	319
2	5350.00	56.40	74.00	-17.60	50.19	6.21	Peak	207	319
3	10640.00	44.08	54.00	-9.92	28.59	15.49	Average	180	327
4	10640.00	55.86	74.00	-18.14	40.37	15.49	Peak	180	327
5	15960.00	43.93	54.00	-10.07	28.39	15.54	Average	240	103
6	15960.00	55.63	74.00	-18.37	40.09	15.54	Peak	240	103

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

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

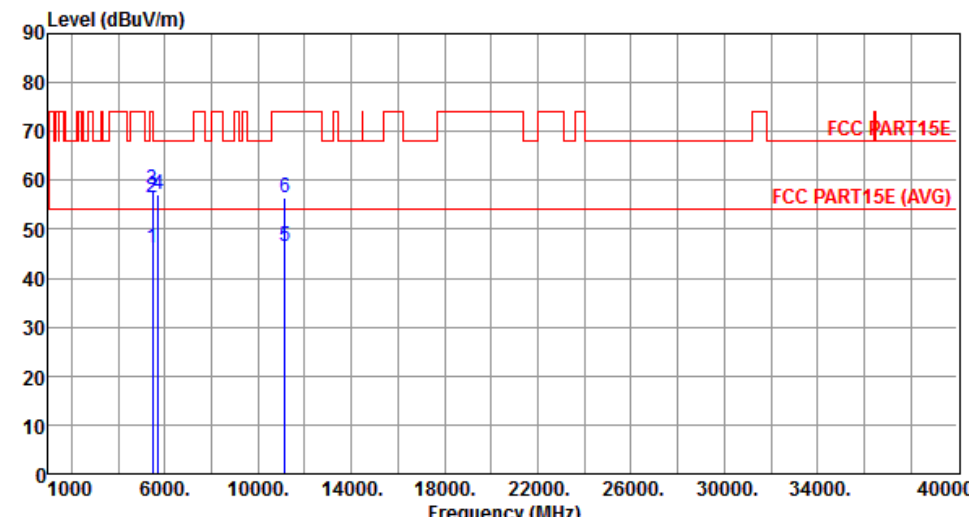
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	46.25	54.00	-7.75	39.88	6.37	Average	189	318
2	5460.00	56.52	74.00	-17.48	50.15	6.37	Peak	189	318
3	5470.00	58.16	68.20	-10.04	51.78	6.38	Peak	189	318
4	11000.00	44.31	54.00	-9.69	28.56	15.75	Average	172	110
5	11000.00	55.93	74.00	-18.07	40.18	15.75	Peak	172	110

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

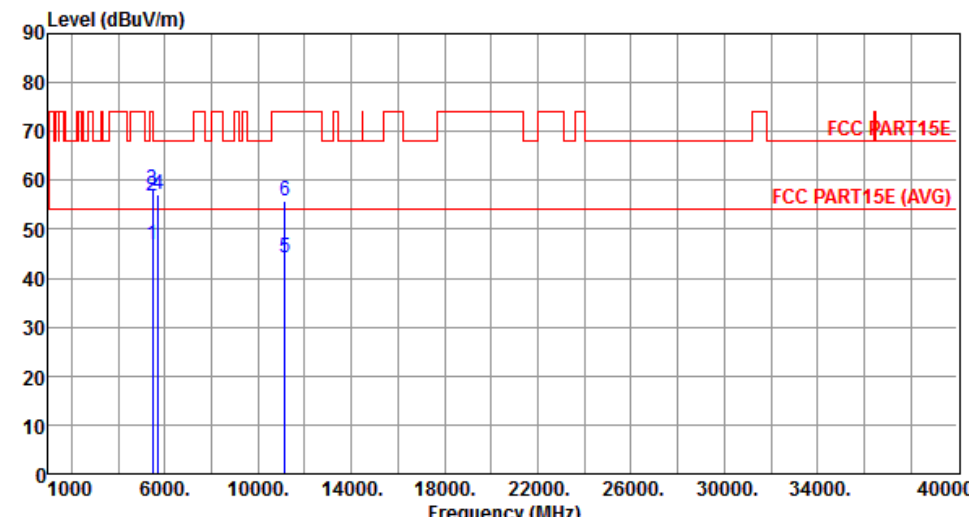
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	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	46.26	54.00	-7.74	39.89	6.37	Average	201	227
2	5460.00	56.55	74.00	-17.45	50.18	6.37	Peak	201	227
3	5470.00	57.97	68.20	-10.23	51.59	6.38	Peak	201	227
4	5725.00	57.13	68.20	-11.07	50.29	6.84	Peak	201	227
5	11160.00	46.62	54.00	-7.38	30.78	15.84	Average	165	175
6	11160.00	56.42	74.00	-17.58	40.58	15.84	Peak	165	175

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

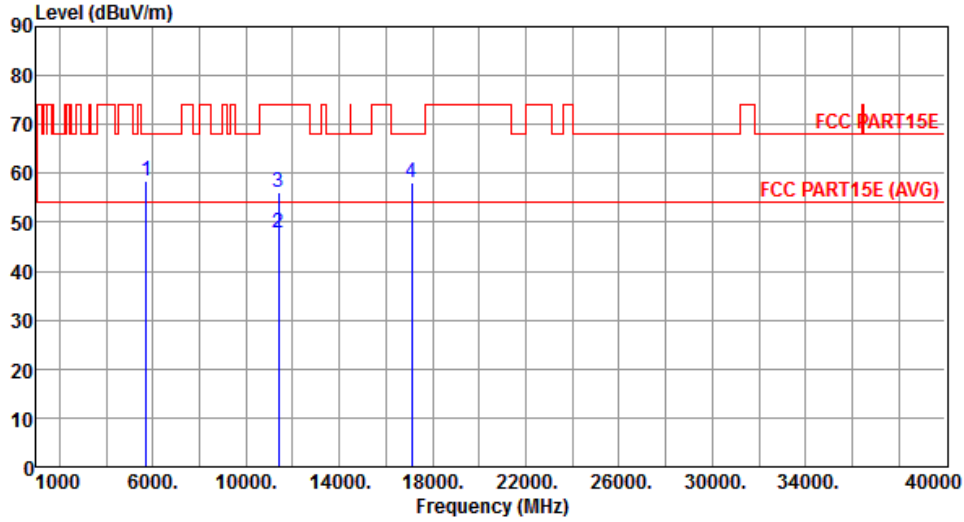
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.81	54.00	-7.19	40.44	6.37	Average	165	325
2	5460.00	56.91	74.00	-17.09	50.54	6.37	Peak	165	325
3	5470.00	57.97	68.20	-10.23	51.59	6.38	Peak	165	325
4	5725.00	57.02	68.20	-11.18	50.18	6.84	Peak	165	325
5	11160.00	44.29	54.00	-9.71	28.45	15.84	Average	159	278
6	11160.00	55.93	74.00	-18.07	40.09	15.84	Peak	159	278

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

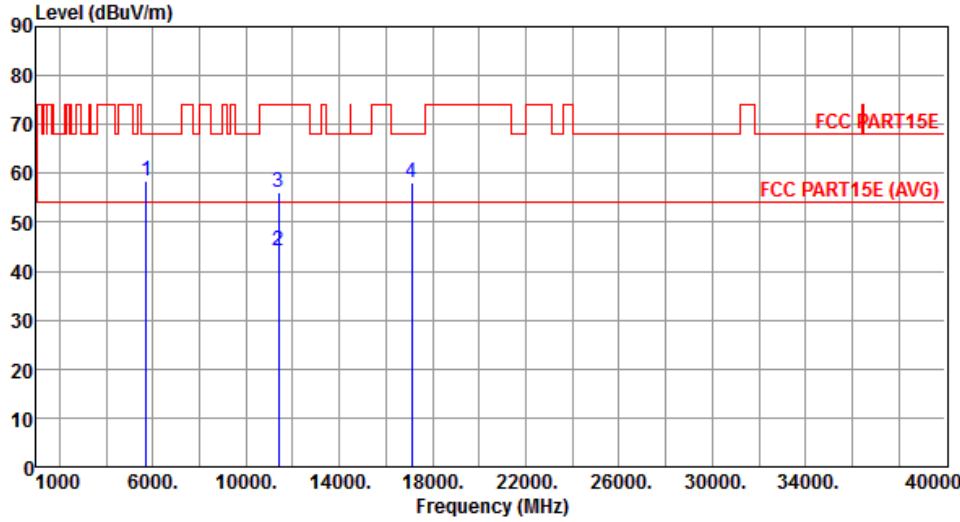
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	58.54	68.20	-9.66	51.70	6.84	Peak	220	235
2	11400.00	47.84	54.00	-6.16	31.87	15.97	Average	250	157
3	11400.00	56.15	74.00	-17.85	40.18	15.97	Peak	250	157
4	17100.00	58.14	68.20	-10.06	40.18	17.96	Peak	214	103

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

Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Vertical		

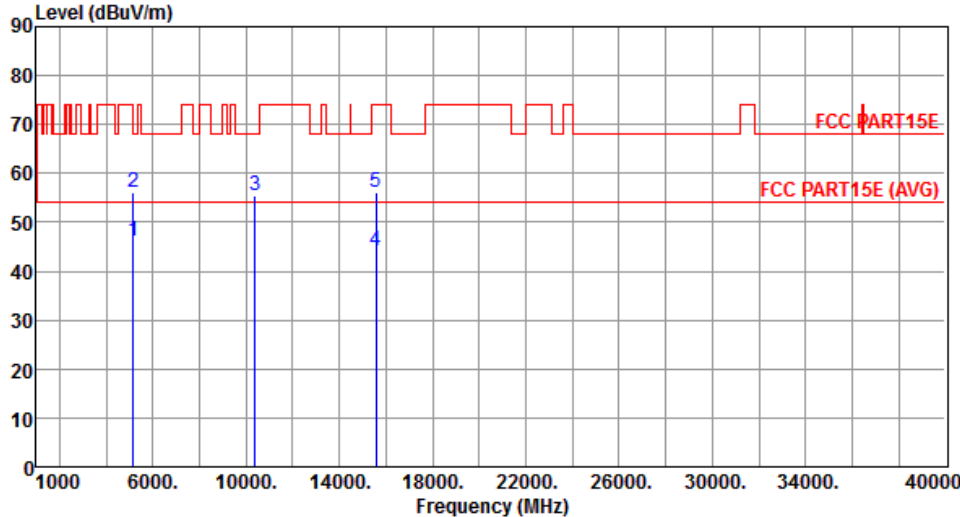


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	58.32	68.20	-9.88	51.48	6.84	Peak	140	310
2	11400.00	44.03	54.00	-9.97	28.06	15.97	Average	144	302
3	11400.00	56.15	74.00	-17.85	40.18	15.97	Peak	144	302
4	17100.00	58.21	68.20	-9.99	40.25	17.96	Peak	259	99

Note 1: Emission Level (dBuV/m) = SA Reading (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 HT40

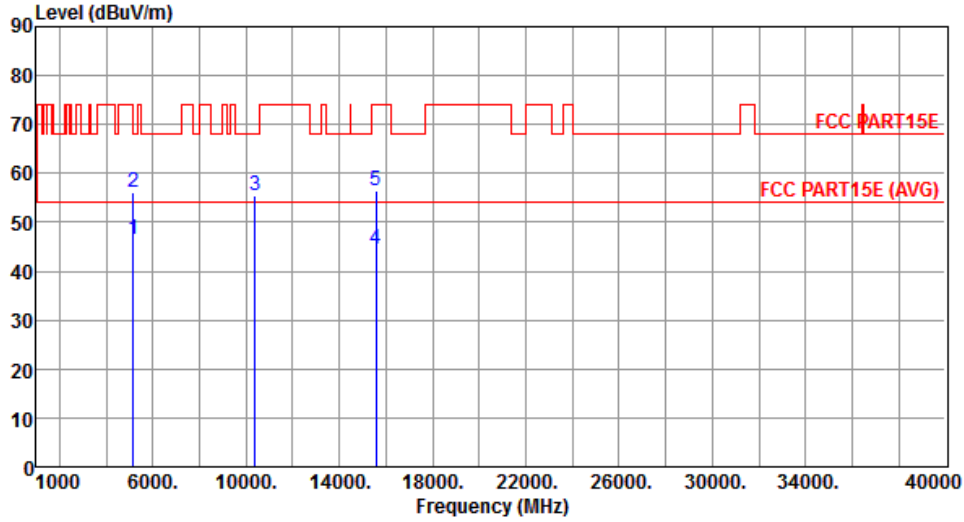
Modulation	HT40	Test Freq. (MHz)	5190
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.24	54.00	-7.76	40.38	5.86	Average	120	205
2	5150.00	56.17	74.00	-17.83	50.31	5.86	Peak	120	205
3	10380.00	55.61	68.20	-12.59	40.35	15.26	Peak	272	85
4	15570.00	44.13	54.00	-9.87	28.10	16.03	Average	184	325
5	15570.00	56.20	74.00	-17.80	40.17	16.03	Peak	184	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).

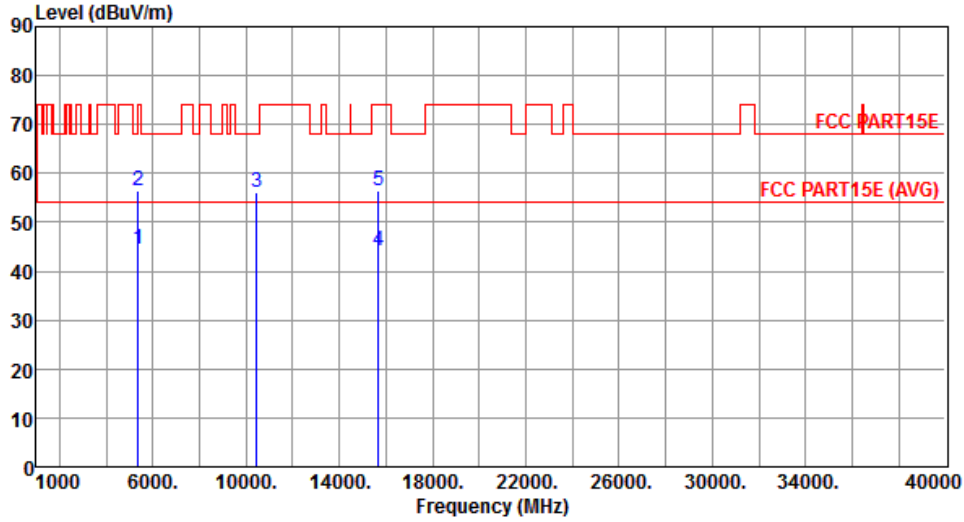
Modulation	HT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.45	54.00	-7.55	40.59	5.86	Average	100	302
2	5150.00	56.12	74.00	-17.88	50.26	5.86	Peak	100	302
3	10380.00	55.57	68.20	-12.63	40.31	15.26	Peak	185	327
4	15570.00	44.39	54.00	-9.61	28.36	16.03	Average	265	78
5	15570.00	56.42	74.00	-17.58	40.39	16.03	Peak	265	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).

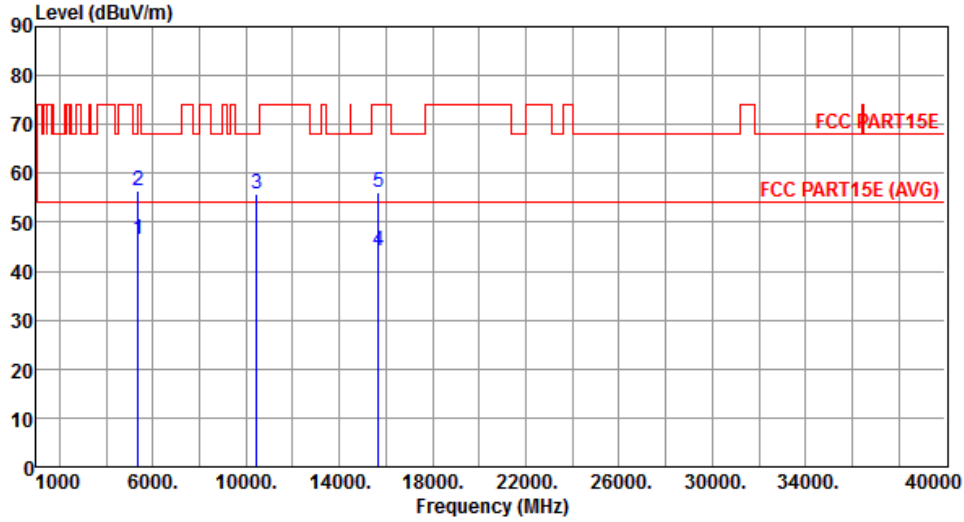
Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	44.51	54.00	-9.49	38.30	6.21	Average	231	226
2	5350.00	56.40	74.00	-17.60	50.19	6.21	Peak	231	226
3	10460.00	56.04	68.20	-12.16	40.69	15.35	Peak	234	111
4	15690.00	44.24	54.00	-9.76	28.36	15.88	Average	219	130
5	15690.00	56.56	74.00	-17.44	40.68	15.88	Peak	219	130

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

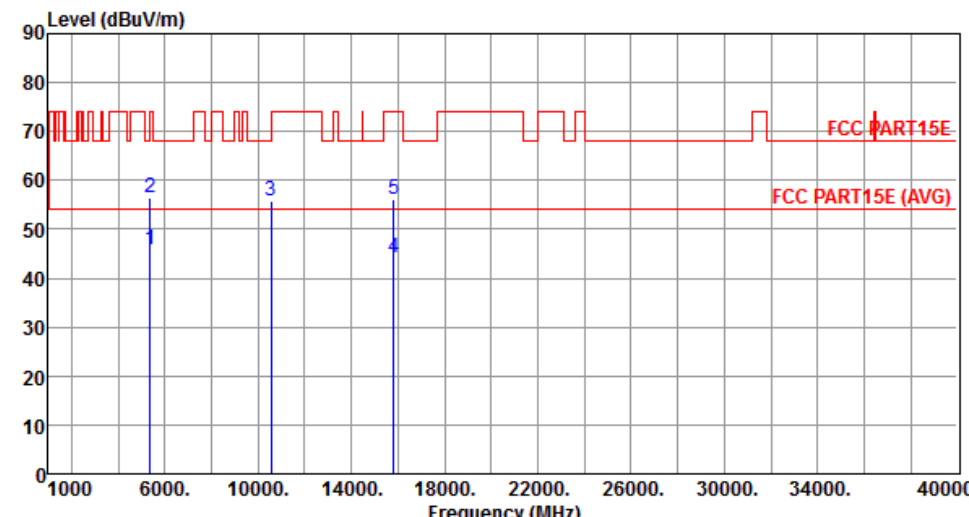
Modulation	HT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.35	54.00	-7.65	40.14	6.21	Average	235	311
2	5350.00	56.48	74.00	-17.52	50.27	6.21	Peak	235	311
3	10460.00	55.71	68.20	-12.49	40.36	15.35	Peak	185	325
4	15690.00	44.23	54.00	-9.77	28.35	15.88	Average	244	100
5	15690.00	56.16	74.00	-17.84	40.28	15.88	Peak	244	100

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

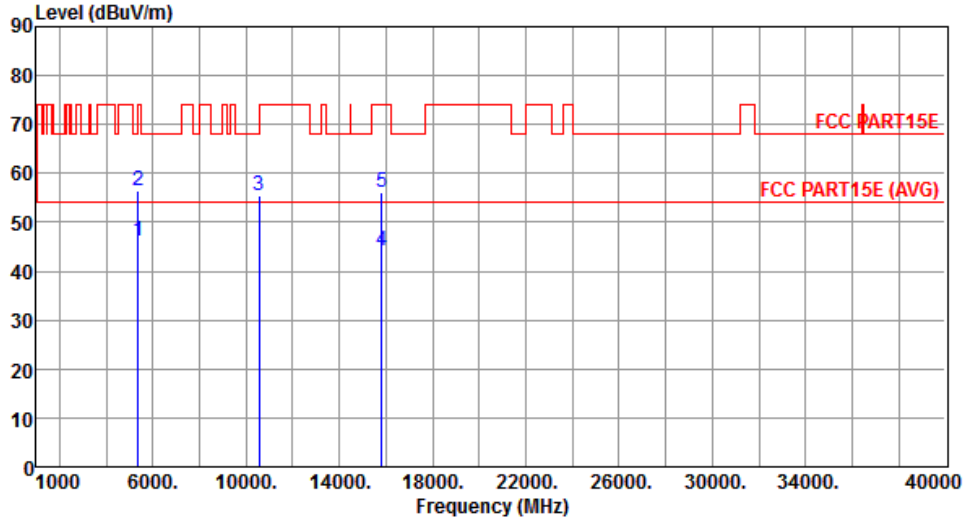
Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	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	45.81	54.00	-8.19	39.60	6.21	Average	100	224
2	5350.00	56.48	74.00	-17.52	50.27	6.21	Peak	100	224
3	10540.00	55.78	68.20	-12.42	40.36	15.42	Peak	233	75
4	15810.00	44.09	54.00	-9.91	28.36	15.73	Average	252	78
5	15810.00	56.12	74.00	-17.88	40.39	15.73	Peak	252	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).

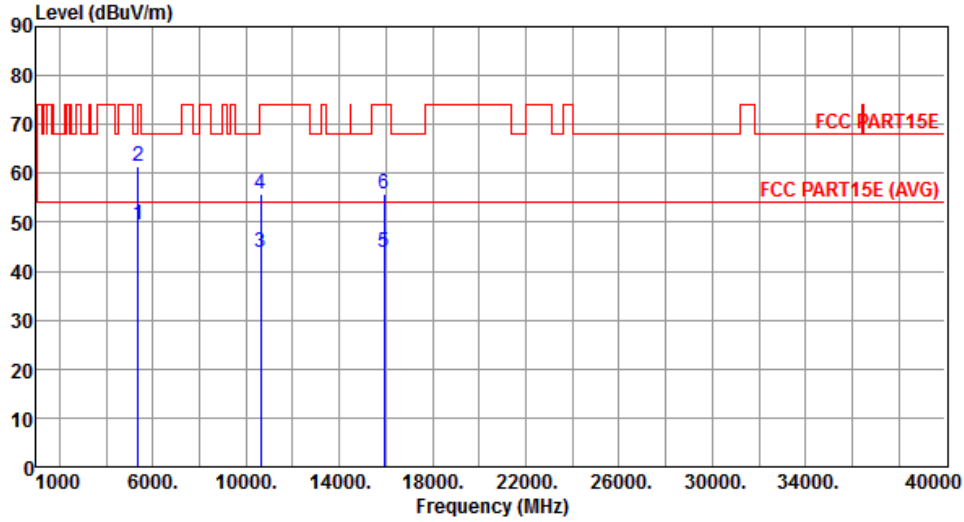
Modulation	HT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	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	46.11	54.00	-7.89	39.90	6.21	Average	209	309
2	5350.00	56.36	74.00	-17.64	50.15	6.21	Peak	209	309
3	10540.00	55.59	68.20	-12.61	40.17	15.42	Peak	184	327
4	15810.00	44.15	54.00	-9.85	28.42	15.73	Average	188	320
5	15810.00	56.17	74.00	-17.83	40.44	15.73	Peak	188	320

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

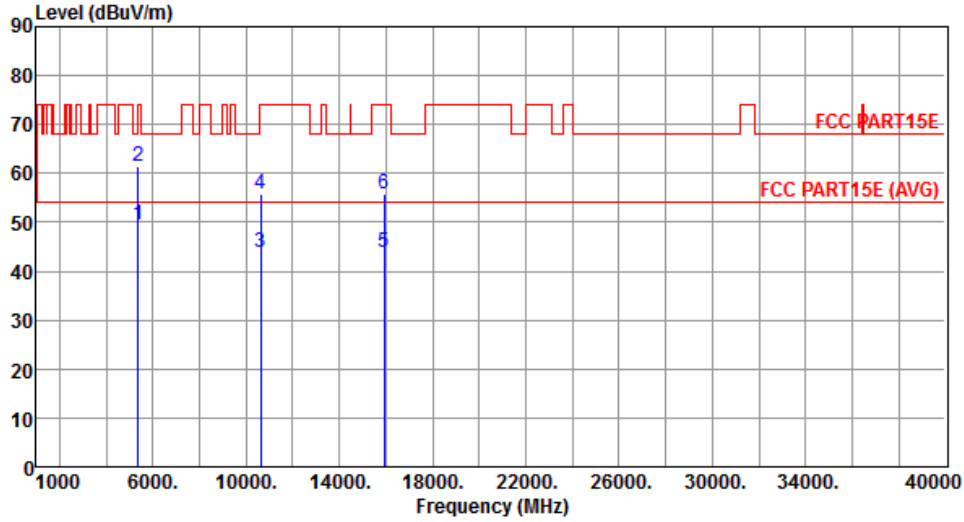
Modulation	HT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	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	49.54	54.00	-4.46	43.33	6.21	Average	100	223
2	5350.00	61.58	74.00	-12.42	55.37	6.21	Peak	100	223
3	10620.00	43.96	54.00	-10.04	28.48	15.48	Average	230	115
4	10620.00	55.87	74.00	-18.13	40.39	15.48	Peak	230	115
5	15930.00	43.94	54.00	-10.06	28.36	15.58	Average	204	128
6	15930.00	55.94	74.00	-18.06	40.36	15.58	Peak	204	128

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

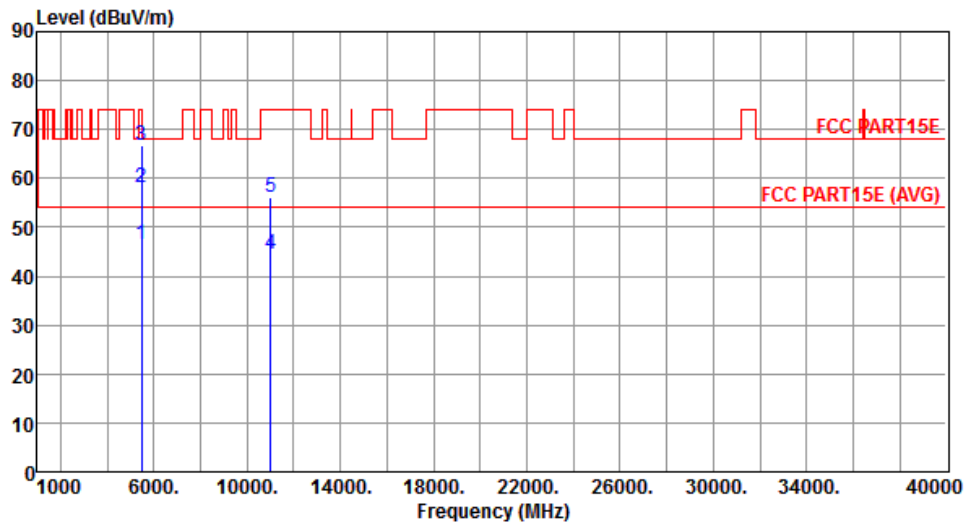
Modulation	HT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	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	49.49	54.00	-4.51	43.28	6.21	Average	217	308
2	5350.00	61.43	74.00	-12.57	55.22	6.21	Peak	217	308
3	10620.00	43.76	54.00	-10.24	28.28	15.48	Average	179	330
4	10620.00	55.87	74.00	-18.13	40.39	15.48	Peak	179	330
5	15930.00	43.97	54.00	-10.03	28.39	15.58	Average	249	69
6	15930.00	55.91	74.00	-18.09	40.33	15.58	Peak	249	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	HT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



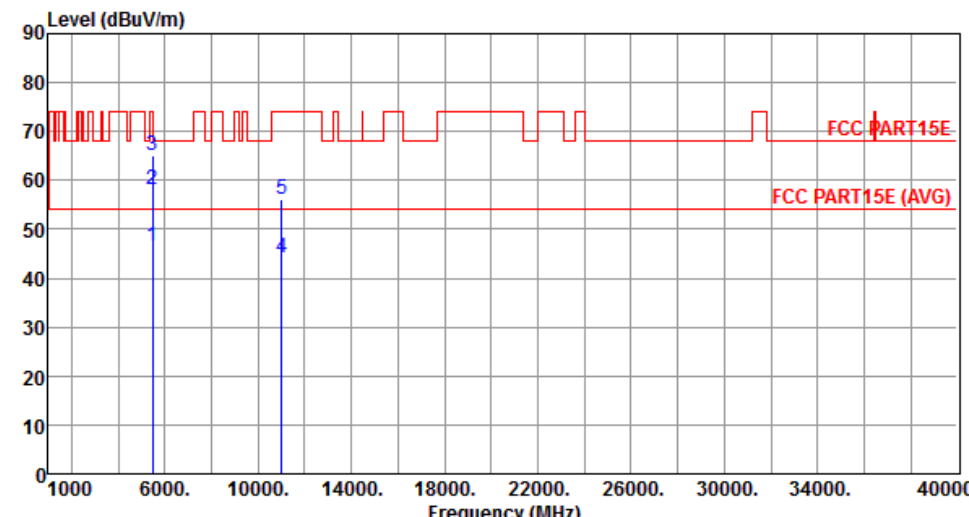
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.57	54.00	-7.43	40.20	6.37	Average	218	227
2	5460.00	58.12	74.00	-15.88	51.75	6.37	Peak	218	227
3	5470.00	66.68	68.20	-1.52	60.30	6.38	Peak	218	227
4	11020.00	44.45	54.00	-9.55	28.69	15.76	Average	235	69
5	11020.00	56.15	74.00	-17.85	40.39	15.76	Peak	235	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).

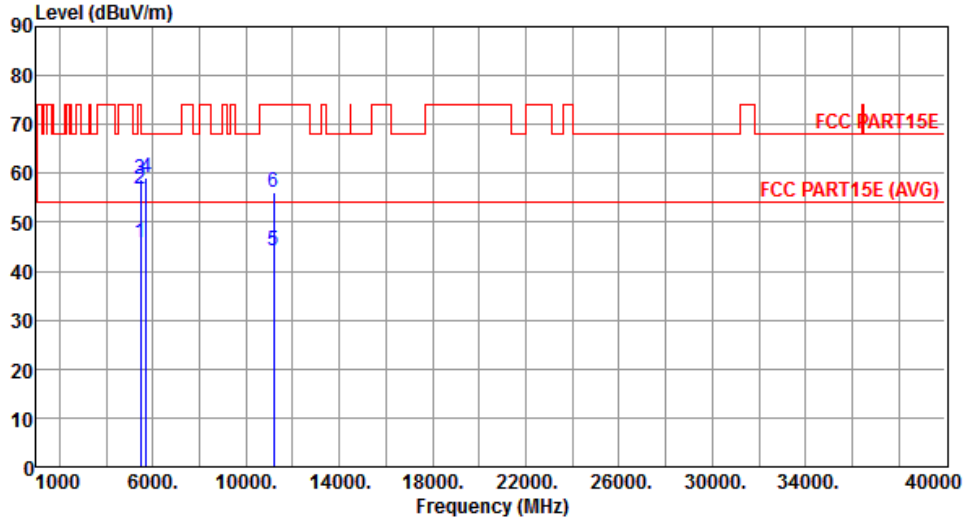
Modulation	HT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	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	46.51	54.00	-7.49	40.14	6.37	Average	188	309
2	5460.00	58.14	74.00	-15.86	51.77	6.37	Peak	188	309
3	5470.00	64.96	68.20	-3.24	58.58	6.38	Peak	188	309
4	11020.00	44.12	54.00	-9.88	28.36	15.76	Average	187	268
5	11020.00	56.12	74.00	-17.88	40.36	15.76	Peak	187	268

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

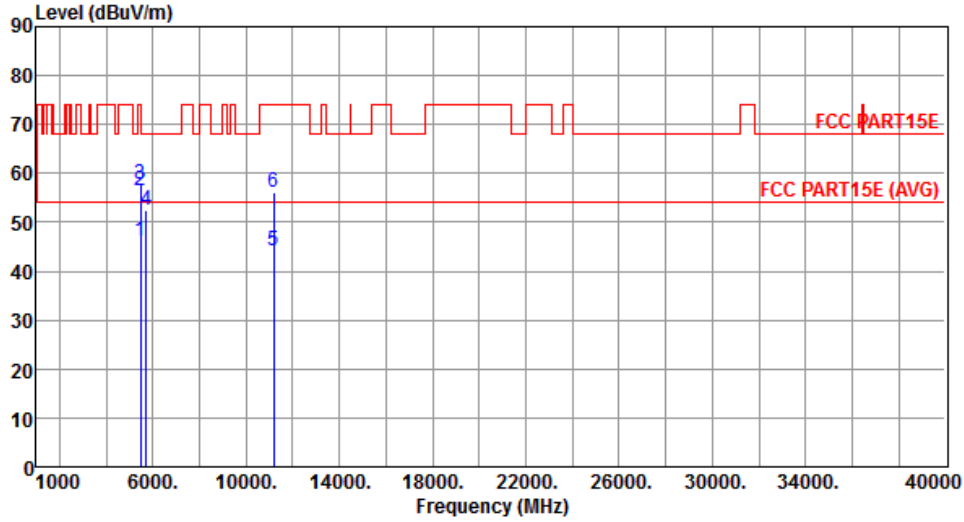
Modulation	HT40	Test Freq. (MHz)	5550
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.96	54.00	-8.04	39.59	6.37	Average	213	227
2	5460.00	56.66	74.00	-17.34	50.29	6.37	Peak	213	227
3	5470.00	58.64	68.20	-9.56	52.26	6.38	Peak	213	227
4	5725.00	58.98	68.20	-9.22	52.14	6.84	Peak	213	227
5	11180.00	44.14	54.00	-9.86	28.29	15.85	Average	225	115
6	11180.00	56.07	74.00	-17.93	40.22	15.85	Peak	225	115

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

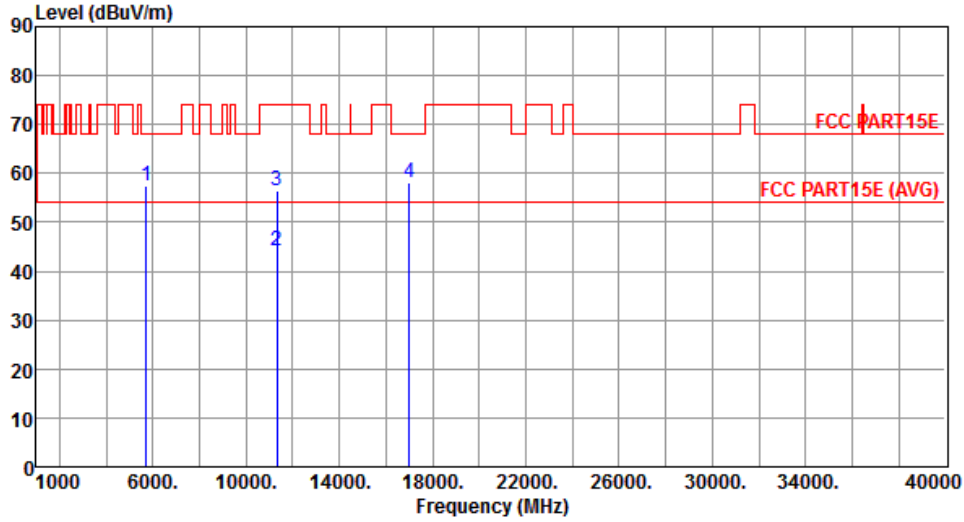
Modulation	HT40	Test Freq. (MHz)	5550
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.26	54.00	-7.74	39.89	6.37	Average	164	315
2	5460.00	56.48	74.00	-17.52	50.11	6.37	Peak	164	315
3	5470.00	57.64	68.20	-10.56	51.26	6.38	Peak	164	315
4	5725.00	52.45	68.20	-15.75	45.61	6.84	Peak	164	315
5	11180.00	44.18	54.00	-9.82	28.33	15.85	Average	188	321
6	11180.00	56.19	74.00	-17.81	40.34	15.85	Peak	188	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).

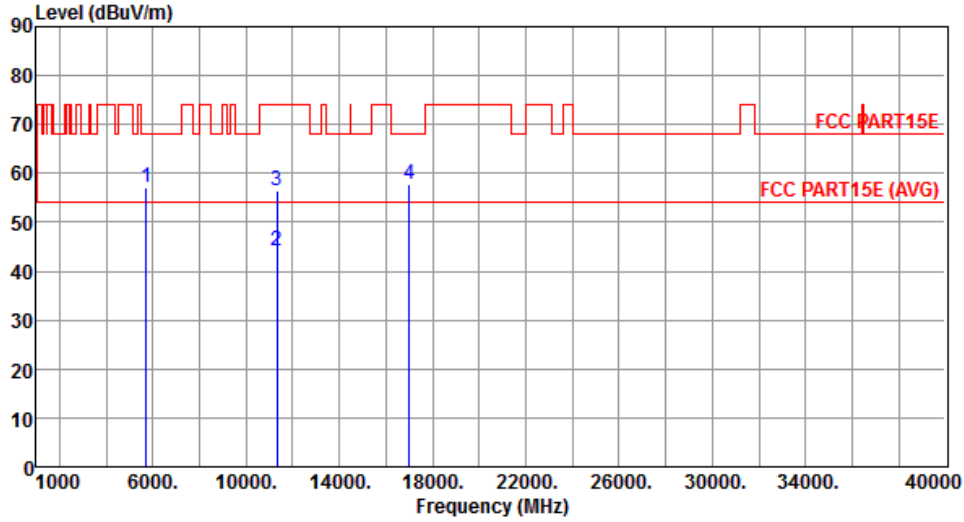
Modulation	HT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	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	57.49	68.20	-10.71	50.65	6.84	Peak	219	230
2	11340.00	44.33	54.00	-9.67	28.39	15.94	Average	232	85
3	11340.00	56.30	74.00	-17.70	40.36	15.94	Peak	232	85
4	17010.00	58.00	68.20	-10.20	40.36	17.64	Peak	218	130

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/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	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	57.10	68.20	-11.10	50.26	6.84	Peak	153	327
2	11340.00	44.33	54.00	-9.67	28.39	15.94	Average	182	327
3	11340.00	56.62	74.00	-17.38	40.68	15.94	Peak	182	327
4	17010.00	57.71	68.20	-10.49	40.07	17.64	Peak	258	70

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

3.6 Frequency Stability

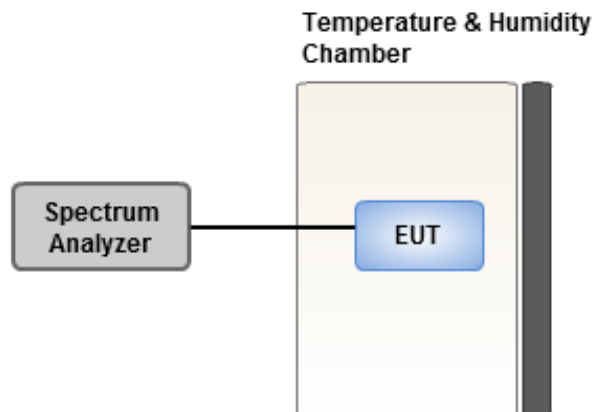
3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	1.05	1.28	0.36	1.70
T20°CVmin	1.12	0.47	0.40	0.69
T55°CVnom	1.11	0.39	0.39	0.66
T50°CVnom	0.39	1.02	0.46	1.15
T40°CVnom	-0.06	-0.13	0.54	-0.34
T30°CVnom	0.28	0.03	0.08	-0.55
T20°CVnom	0.26	0.76	0.61	0.58
T10°CVnom	0.17	-0.25	0.30	0.50
T0°CVnom	-0.65	-0.71	0.19	-0.16
T-10°CVnom	0.30	0.39	0.34	0.58
T-20°CVnom	-0.30	0.76	-0.27	-0.26
T-30°CVnom	0.17	-0.23	0.33	0.52
Vnom [V]: 3.9		Vmax [V]: 4.29		Vmin [V]: 3.51
Tnom [°C]: 20		Tmax [°C]: 55		Tmin [°C]: -30

4 Test laboratory information

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

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

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

Linkou

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Kwei Shan

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No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==