FCC Test Report

FCC ID	:	**NKR-DAUKW12**
Equipment	:	**802.11a/b/g/n/ac Wireless LAN Module**
Model No.	:	**DAUK-W12**
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	:	**Nov. 28, 2016**
Tested Date	:	**Dec. 06 ~ Dec. 20, 2016**

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

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FR6N2802AN	Rev. 01	Initial issue	Jan. 10, 2017

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.156MHz 41.44 (Margin -14.21dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5470.00MHz 53.42 (Margin -0.58dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 21.79 5250~5350MHz: 22.06 5470~5725MHz: 21.92 5725~5850MHz: 22.07	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	2	MCS 0-15
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [5] 151-159 [2]	2	MCS 0-15
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5700 5745-5825	36-48 [4] 52-64 [4] 100-140 [11] 149-165 [5]	2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5670 5755-5795	38-46 [2] 54-62 [2] 102-134 [5] 151-159 [2]	2	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530-5610 5775	42 [1] 58 [1] 106-122 [2] 155 [1]	2	MCS 0-9
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.					

1.1.2 Antenna Details

Configuration	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	ANT 0 (On-board ANT0)	PIFA	N/A	2.21	3.04	2.82	2.7	2.7
	ANT 1 (On-board ANT0)	PIFA	N/A	3.32	4.95	4.48	5.43	5.63
2	RFMTA340740IMLB701 (External-Amtran)	PIFA	IPEX	2.3	4.36	4.36	4.36	4.36
	ANT 1 (On-board ANT1)	PIFA	N/A	3.32	4.95	4.48	5.43	5.63
3	N/A (External-WNC Antenna)	PIFA	IPEX	-4.72	-5.22	-4.92	-4.69	-4.69
	N/A (External-WNC Antenna)	PIFA	IPEX	-4.72	-5.22	-4.92	-4.69	-4.69

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
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	151	5755
108	5540	159	5795
112	5560	**VHT80**	
116	5580	42	5210
120	5600	58	5290
124	5620	106	5530
128	5640	122	5610
132	5660	155	5775
136	5680	---	---
140	5700	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	REALTEK 11ac 8812AU, Version: 0.0062.10.20151208		
Duty Cycle and Duty Factor	**Mode**	**Duty cycle (%)**	**Duty factor (dB)**
	11a	92.27%	0.35
	HT20	94.27%	0.26
	HT40	84.90%	0.71
	VHT20	94.27%	0.26
	VHT40	84.90%	0.71
	VHT80	68.75%	1.63

1.1.7 Power Setting

For Frequency band 5150-5250 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Set**
11a	5180	39
11a	5200	48
11a	5240	45
HT20	5180	49/49
HT20	5200	53/53
HT20	5240	50/53
HT40	5190	42/40
HT40	5230	52/53
VHT20	5180	49/49
VHT20	5200	53/53
VHT20	5240	50/53
VHT40	5190	42/40
VHT40	5230	52/53
VHT80	5210	40/40

For Frequency band 5250~5350 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Set**
11a	5260	44
11a	5300	41
11a	5320	31
HT20	5260	50/53
HT20	5300	50/53
HT20	5320	40/43
HT40	5270	48/50
HT40	5310	32/33
VHT20	5260	50/53
VHT20	5300	50/53
VHT20	5320	40/43
VHT40	5270	48/50
VHT40	5310	32/33
VHT80	5290	30/30

For Frequency band 5470~5725 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Set**
11a	5500	49
11a	5580	47
11a	5700	41
HT20	5500	53/56
HT20	5580	58/61
HT20	5700	47/48
HT40	5510	41/45
HT40	5590	56/61
HT40	5670	49/51
VHT20	5500	53/56
VHT20	5580	58/61
VHT20	5700	47/48
VHT40	5510	41/45
VHT40	5590	56/61
VHT40	5670	49/51
VHT80	5530	36/39
VHT80	5610	48/52

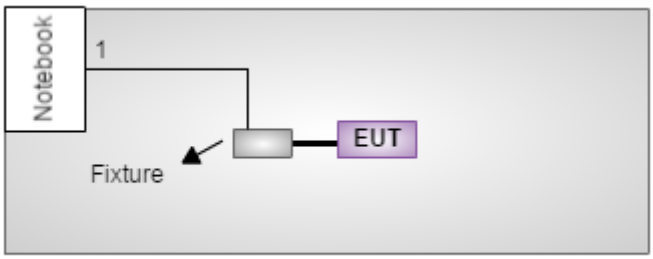
For Frequency band 5725~5850 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Set**
11a	5745	49
11a	5785	49
11a	5825	48
HT20	5745	61/61
HT20	5785	62/60
HT20	5825	59/58
HT40	5755	60/60
HT40	5795	60/60
VHT20	5745	61/61
VHT20	5785	62/60
VHT20	5825	59/58
VHT40	5755	60/60
VHT40	5795	60/60
VHT80	5775	52/52

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Signal cable / Length (m)**
1	Notebook	DELL	Latitude E6440	Doc	USB, 1m shielded

1.3 Test Setup Chart

Test Setup Diagram



1. USB, 1m shielded

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Jan. 12, 2016	Jan. 11, 2017
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 08, 2016	Nov. 07, 2017
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. 09, 2016	Sep. 08, 2017
Receiver	Agilent	N9038A	MY53290044	Oct. 06, 2016	Oct. 05, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 26, 2016	Apr. 25, 2017
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	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 10, 2016	Nov. 09, 2017
Preamplifier	EMC	EMC02325	980187	Sep. 08, 2016	Sep. 07, 2017
Preamplifier	Agilent	83017A	MY53270014	Aug. 22, 2016	Aug. 21, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
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. 21, 2016	Nov. 20, 2017
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
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 v01r03
FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Power density	±0.463 dB
Conducted emission	±2.670 dB
AC conducted emission	±2.90 dB
Radiated emission ≤ 1GHz	±3.66 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	19°C / 64%	Howard Huang
Radiated Emissions	03CH03-WS	22-24°C / 60-63%	Brad Wu , Aska Huang Kevin Lee, Vincent Yeh
RF Conducted	TH01-WS	21°C / 64%	Alex Huang

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
Conducted Emissions	VHT20	5300	MCS 0	3
Radiated Emissions ≤1GHz	VHT20	5300	MCS 0	1, 2, 3
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	2
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
	HT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	
Radiated Emissions >1GHz	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1, 2, 3
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	
Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	2
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610	MCS 0	
Frequency Stability	Un-modulation	5320	---	2

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.
2. The test configurations are listed as follows:
   Configuration 1: On-board ANT0 + On-board ANT1 mode
   Configuration 2: External-Amtran + On-board ANT1 mode
   Configuration 3: External-WNC Antenna (330mm) + External-WNC Antenna (330mm) mode

Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Test Configuration**
Conducted Emissions	VHT20	5745	MCS 0	3
Radiated Emissions ≤1GHz	VHT20	5745	MCS 0	1, 2, 3
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	2
	HT20	5745 / 5785 / 5825	MCS 0	
	HT40	5755 / 5795	MCS 0	
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz	11a	5745 / 5785 / 5825	6 Mbps	1, 2, 3
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	2
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	2

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.
2. The test configurations are listed as follows:

   Configuration 1: On-board ANT0 + On-board ANT1 mode

   Configuration 2: External-Amtran + On-board ANT1 mode

   Configuration 3: External-WNC Antenna (330mm) + External-WNC Antenna (330mm) mode

3 Transmitter Test Results

3.1 Conducted Emissions

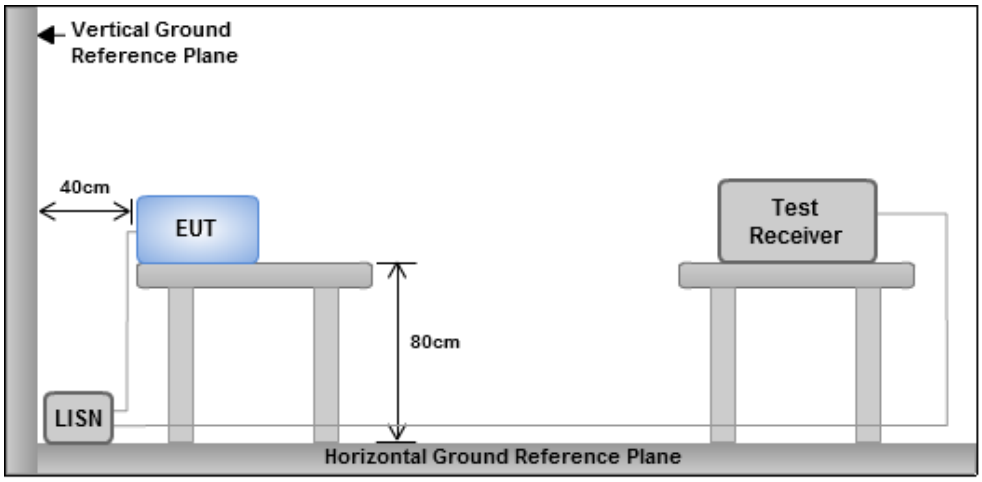
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Test Procedures

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

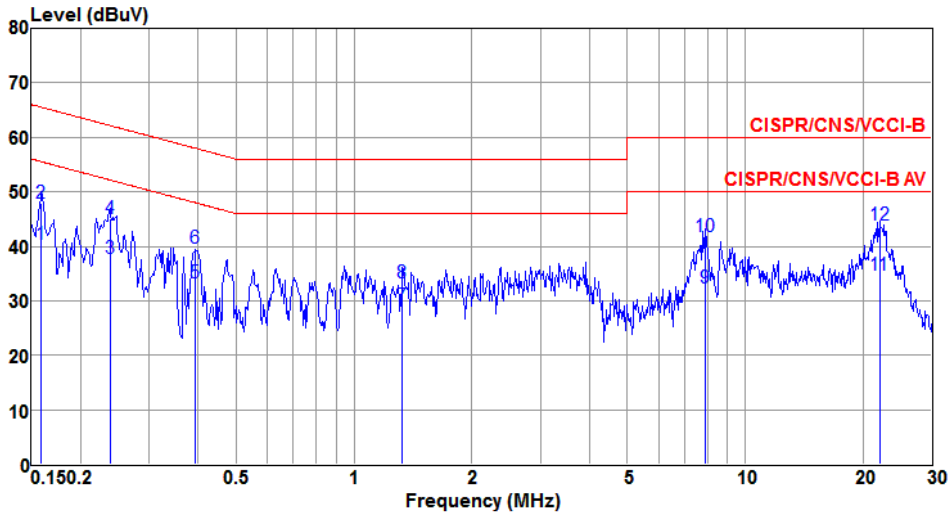
3.1.3 Test Setup



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

3.1.4 Test Result of Conducted Emissions

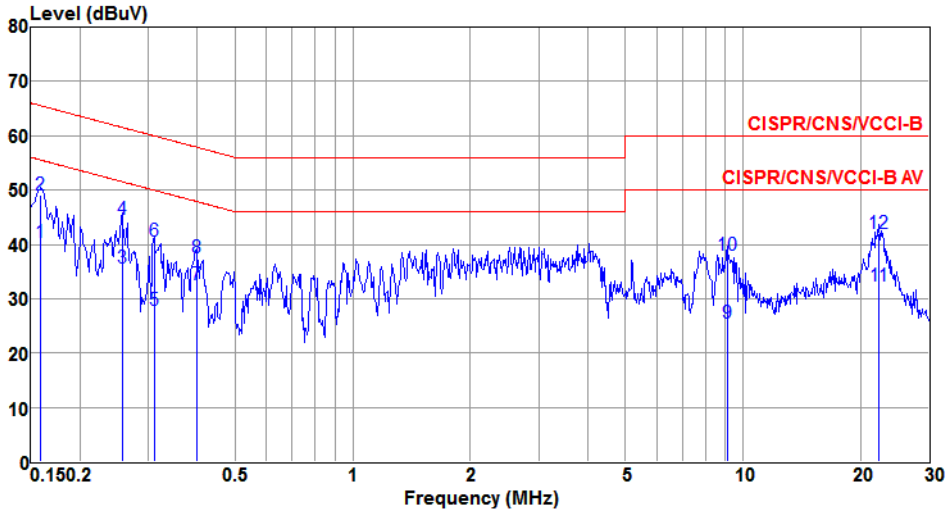
Modulation	VHT20	Test Freq. (MHz)	5300
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	40.46	55.52	-15.06	40.36	0.08	0.02	Average
2	0.159	48.01	65.52	-17.51	47.91	0.08	0.02	QP
3@	0.238	37.67	52.17	-14.50	37.56	0.09	0.02	Average
4	0.238	45.12	62.17	-17.05	45.01	0.09	0.02	QP
5	0.393	33.34	47.99	-14.65	33.25	0.06	0.03	Average
6	0.393	39.58	57.99	-18.41	39.49	0.06	0.03	QP
7	1.331	29.09	46.00	-16.91	28.93	0.09	0.07	Average
8	1.331	33.17	56.00	-22.83	33.01	0.09	0.07	QP
9	7.893	32.40	50.00	-17.60	32.06	0.19	0.15	Average
10	7.893	41.88	60.00	-18.12	41.54	0.19	0.15	QP
11	22.063	34.73	50.00	-15.27	34.12	0.41	0.20	Average
12	22.063	43.81	60.00	-16.19	43.20	0.41	0.20	QP

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

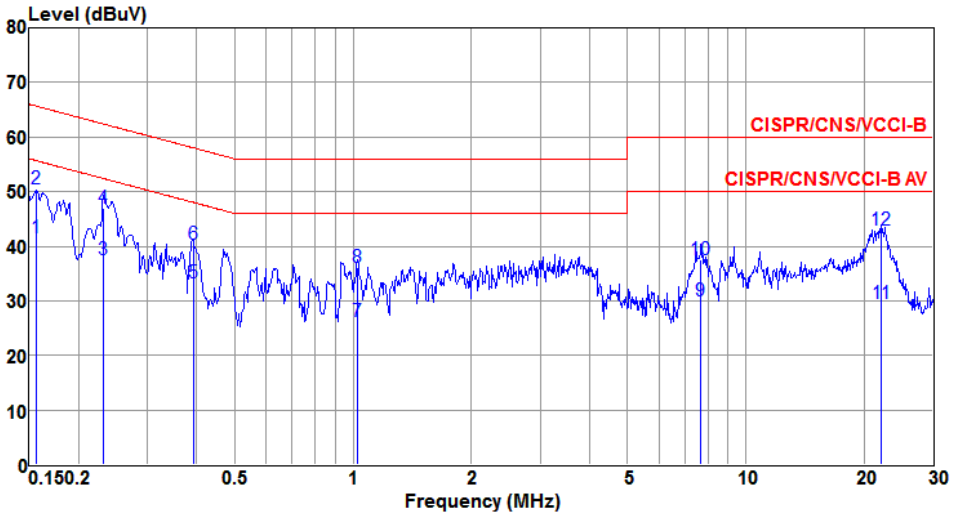
Modulation	VHT20	Test Freq. (MHz)	5300
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1@	0.159	40.29	55.52	-15.23	40.17	0.10	0.02	Average
2	0.159	49.11	65.52	-16.41	48.99	0.10	0.02	QP
3	0.256	35.60	51.56	-15.96	35.48	0.10	0.02	Average
4	0.256	44.71	61.56	-16.85	44.59	0.10	0.02	QP
5	0.310	27.88	49.97	-22.09	27.73	0.12	0.03	Average
6	0.310	40.61	59.97	-19.36	40.46	0.12	0.03	QP
7	0.398	32.49	47.90	-15.41	32.33	0.13	0.03	Average
8	0.398	37.52	57.90	-20.38	37.36	0.13	0.03	QP
9	9.107	25.53	50.00	-24.47	25.08	0.29	0.16	Average
10	9.107	38.12	60.00	-21.88	37.67	0.29	0.16	QP
11	22.298	32.23	50.00	-17.77	31.59	0.43	0.21	Average
12	22.298	41.99	60.00	-18.01	41.35	0.43	0.21	QP

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

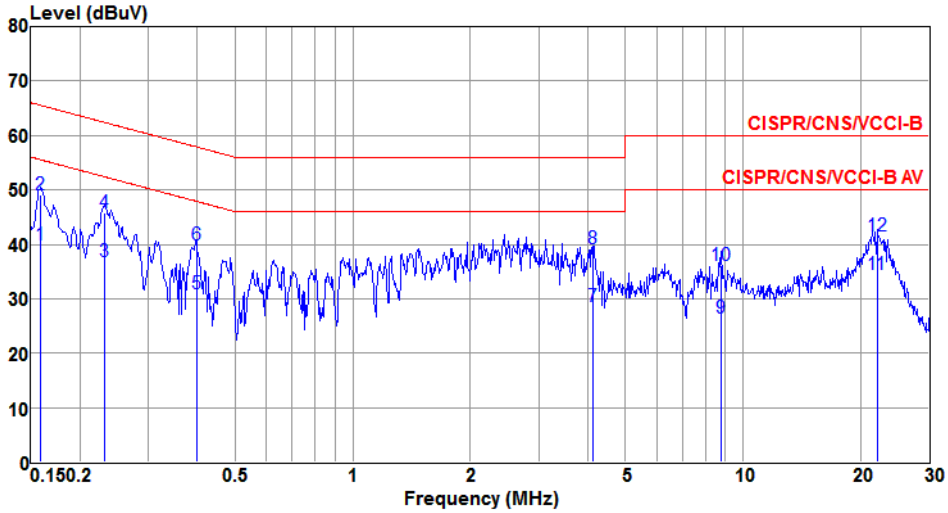
Modulation	VHT20	Test Freq. (MHz)	5745
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1@	0.156	41.44	55.65	-14.21	41.35	0.07	0.02	Average
2	0.156	50.39	65.65	-15.26	50.30	0.07	0.02	QP
3	0.232	37.43	52.39	-14.96	37.32	0.09	0.02	Average
4	0.232	46.87	62.39	-15.52	46.76	0.09	0.02	QP
5	0.391	33.17	48.03	-14.86	33.08	0.06	0.03	Average
6	0.391	40.40	58.03	-17.63	40.31	0.06	0.03	QP
7	1.027	26.31	46.00	-19.69	26.18	0.07	0.06	Average
8	1.027	36.01	56.00	-19.99	35.88	0.07	0.06	QP
9	7.687	29.95	50.00	-20.05	29.61	0.19	0.15	Average
10	7.687	37.45	60.00	-22.55	37.11	0.19	0.15	QP
11	22.180	29.48	50.00	-20.52	28.86	0.41	0.21	Average
12	22.180	43.00	60.00	-17.00	42.38	0.41	0.21	QP

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

Modulation	VHT20	Test Freq. (MHz)	5745
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	39.90	55.52	-15.62	39.78	0.10	0.02	Average
2	0.159	49.17	65.52	-16.35	49.05	0.10	0.02	QP
3@	0.232	36.91	52.39	-15.48	36.79	0.10	0.02	Average
4	0.232	45.86	62.39	-16.53	45.74	0.10	0.02	QP
5	0.398	30.95	47.90	-16.95	30.79	0.13	0.03	Average
6	0.398	39.80	57.90	-18.10	39.64	0.13	0.03	QP
7	4.136	28.55	46.00	-17.45	28.28	0.15	0.12	Average
8	4.136	39.30	56.00	-16.70	39.03	0.15	0.12	QP
9	8.776	26.48	50.00	-23.52	26.05	0.28	0.15	Average
10	8.776	36.09	60.00	-23.91	35.66	0.28	0.15	QP
11	22.063	34.38	50.00	-15.62	33.75	0.43	0.20	Average
12	22.063	41.64	60.00	-18.36	41.01	0.43	0.20	QP

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

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedures

26dB Bandwidth

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

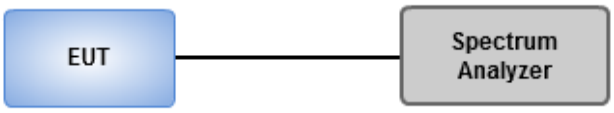
Occupied Bandwidth

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

6dB Bandwidth

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

3.2.3 Test Setup



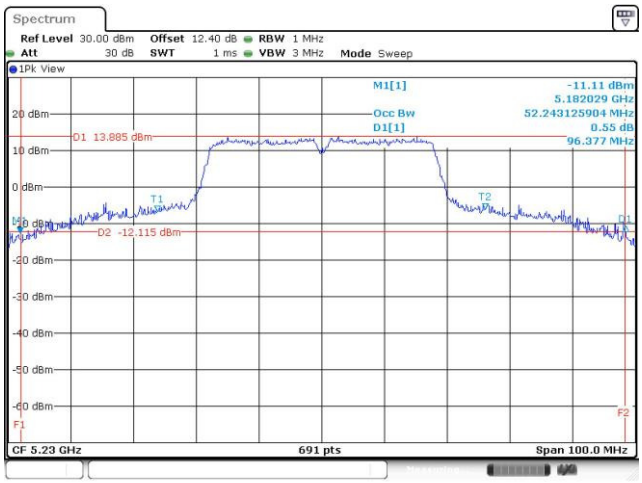
3.2.4 Test Result of Emission Bandwidth

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	23.84	---	---	---	16.82	---	---	---
11a	1	5200	42.83	---	---	---	17.23	---	---	---
11a	1	5240	42.10	---	---	---	17.22	---	---	---
VHT20	2	5180	34.35	41.09	---	---	17.92	18.21	---	---
VHT20	2	5200	42.54	46.01	---	---	18.41	18.61	---	---
VHT20	2	5240	41.23	47.61	---	---	18.14	18.91	---	---
VHT40	2	5190	45.91	44.75	---	---	36.88	36.68	---	---
VHT40	2	5230	88.55	96.38	---	---	37.54	37.92	---	---
VHT80	2	5210	81.62	81.39	---	---	75.44	75.68	---	---

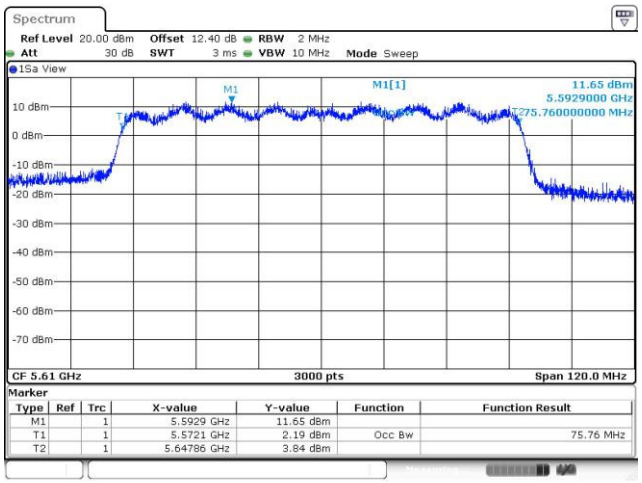
For Frequency band 5250~5350 MHz											
Mode	N_{TX}	Freq. (MHz)	26dB Bandwidth (MHz)				99% Bandwidth (MHz)				Power Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
11a	1	5260	43.04	---	---	---	17.41	---	---	---	24.00
11a	1	5300	42.46	---	---	---	17.26	---	---	---	24.00
11a	1	5320	23.99	---	---	---	16.85	---	---	---	24.00
VHT20	2	5260	42.90	45.14	---	---	18.39	18.42	---	---	24.00
VHT20	2	5300	44.13	42.61	---	---	18.46	18.93	---	---	24.00
VHT20	2	5320	26.59	23.70	---	---	17.86	17.77	---	---	24.00
VHT40	2	5270	80.15	89.71	---	---	36.92	36.84	---	---	24.00
VHT40	2	5310	44.99	44.29	---	---	36.78	36.68	---	---	24.00
VHT80	2	5290	80.70	81.62	---	---	75.48	75.44	---	---	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	40.43	---	---	---	17.07	---	---	---	24.00
11a	1	5580	42.54	---	---	---	17.01	---	---	---	24.00
11a	1	5700	23.55	---	---	---	16.84	---	---	---	24.00
VHT20	2	5500	26.09	31.59	---	---	17.89	17.86	---	---	24.00
VHT20	2	5580	44.13	43.84	---	---	18.52	18.22	---	---	24.00
VHT20	2	5700	45.43	43.55	---	---	17.85	17.81	---	---	24.00
VHT40	2	5510	45.07	45.22	---	---	36.82	36.64	---	---	24.00
VHT40	2	5590	73.19	90.00	---	---	36.68	36.64	---	---	24.00
VHT40	2	5670	49.16	57.04	---	---	36.90	36.82	---	---	24.00
VHT80	2	5530	82.09	81.62	---	---	75.48	75.44	---	---	24.00
VHT80	2	5610	81.86	93.91	---	---	75.60	75.76	---	---	24.00

Worst Plot of 26dB Bandwidth

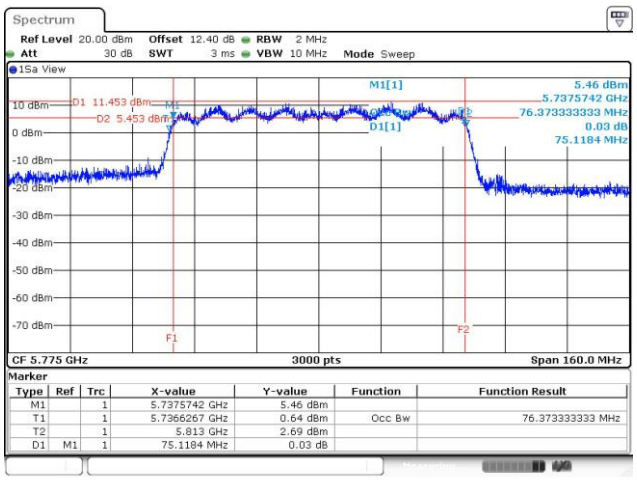


Worst Plot of 99% Bandwidth

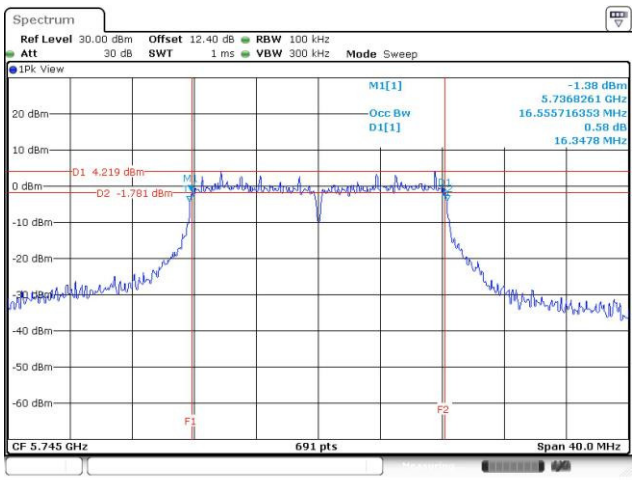


For Frequency band 5725-5850 MHz											
Mode	N_{TX}	Freq. (MHz)	OBW Bandwidth (MHz)				6dB Bandwidth (MHz)				
			Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	6dB BW Limit (MHz)
11a	1	5745	17.11	---	---	---	16.35	---	---	---	0.5
11a	1	5785	17.17	---	---	---	16.35	---	---	---	0.5
11a	1	5825	16.95	---	---	---	16.35	---	---	---	0.5
VHT20	2	5745	19.21	18.84	---	---	17.33	17.57	---	---	0.5
VHT20	2	5785	19.32	20.00	---	---	17.57	16.93	---	---	0.5
VHT20	2	5825	18.84	18.45	---	---	17.57	17.57	---	---	0.5
VHT40	2	5755	39.23	38.00	---	---	36.06	36.29	---	---	0.5
VHT40	2	5795	38.32	38.72	---	---	35.94	36.41	---	---	0.5
VHT80	2	5775	76.37	76.00	---	---	75.13	75.13	---	---	0.5

Worst Plot of 99% Bandwidth



Worst Plot of 6dB Bandwidth



3.3 RF Output Power

3.3.1 Limit of RF Output Power

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

Frequency Band (MHz)		**Limit**
☒	5250 ~ 5350	250mW or 11dBm+10 log B
☒	5470 ~ 5725	250mW or 11dBm+10 log B
☒	5725 ~ 5850	1 W
Note: “B” is the 26dB emission bandwidth in MHz.		

3.3.2 Test Procedures

☒ 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	19.12	---	---	---	81.658	19.12	24.00
11a	1	5240	19.00	---	---	---	79.433	19.00	24.00
HT20	2	5180	16.81	17.99	---	---	110.924	20.45	24.00
HT20	2	5200	18.38	19.05	---	---	149.218	21.74	24.00
HT20	2	5240	17.96	18.91	---	---	140.321	21.47	24.00
HT40	2	5190	12.88	13.37	---	---	41.136	16.14	24.00
HT40	2	5230	18.16	18.80	---	---	141.321	21.50	24.00
VHT20	2	5180	16.89	18.06	---	---	112.839	20.52	24.00
VHT20	2	5200	18.42	19.11	---	---	150.973	**21.79**	24.00
VHT20	2	5240	18	18.97	---	---	141.982	21.52	24.00
VHT40	2	5190	12.92	13.45	---	---	41.719	16.20	24.00
VHT40	2	5230	18.24	18.88	---	---	143.949	21.58	24.00
VHT80	2	5210	13.51	13.84	---	---	46.649	16.69	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	19.16	---	---	---	82.414	19.16	24.00
11a	1	5300	19.16	---	---	---	82.414	19.16	24.00
11a	1	5320	15.08	---	---	---	32.211	15.08	24.00
HT20	2	5260	18.27	19.18	---	---	149.937	21.76	24.00
HT20	2	5300	18.72	19.21	---	---	157.841	21.98	24.00
HT20	2	5320	16.41	15.79	---	---	81.684	19.12	24.00
HT40	2	5270	17.41	17.97	---	---	117.742	20.71	24.00
HT40	2	5310	11.42	11.51	---	---	28.025	14.48	24.00
VHT20	2	5260	18.31	19.24	---	---	151.710	21.81	24.00
VHT20	2	5300	18.78	19.3	---	---	160.623	**22.06**	24.00
VHT20	2	5320	16.45	15.87	---	---	82.794	19.18	24.00
VHT40	2	5270	17.47	18.01	---	---	119.088	20.76	24.00
VHT40	2	5310	11.48	11.57	---	---	28.415	14.54	24.00
VHT80	2	5290	10.84	10.56	---	---	23.510	13.71	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	19.22	---	---	---	83.560	19.22	24.00
11a	1	5580	19.02	---	---	---	79.799	19.02	24.00
11a	1	5700	16.32	---	---	---	42.855	16.32	24.00
HT20	2	5500	16.90	16.81	---	---	96.951	19.87	24.00
HT20	2	5580	18.92	18.77	---	---	153.319	21.86	24.00
HT20	2	5700	14.48	15.07	---	---	60.191	17.80	24.00
HT40	2	5510	11.73	11.91	---	---	30.417	14.83	24.00
HT40	2	5590	18.27	18.76	---	---	142.305	21.53	24.00
HT40	2	5670	15.19	14.66	---	---	62.278	17.94	24.00
VHT20	2	5500	16.96	16.88	---	---	98.412	19.93	24.00
VHT20	2	5580	18.99	18.82	---	---	155.458	**21.92**	24.00
VHT20	2	5700	14.56	15.14	---	---	61.235	17.87	24.00
VHT40	2	5510	11.79	11.97	---	---	30.841	14.89	24.00
VHT40	2	5590	18.33	18.84	---	---	144.637	21.60	24.00
VHT40	2	5670	15.24	14.71	---	---	63.000	17.99	24.00
VHT80	2	5530	10.17	10.01	---	---	20.422	13.10	24.00
VHT80	2	5610	16.14	15.92	---	---	80.199	19.04	24.00

For Frequency band 5725-5850 MHz									
Mode	N_{TX}	Freq. (MHz)	Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11a	1	5745	18.53	---	---	---	71.285	18.53	30.00
11a	1	5785	18.62	---	---	---	72.778	18.62	30.00
11a	1	5825	18.57	---	---	---	71.945	18.57	30.00
HT20	2	5745	18.55	19.37	---	---	158.111	21.99	30.00
HT20	2	5785	18.92	19.01	---	---	157.599	21.98	30.00
HT20	2	5825	18.24	18.95	---	---	145.204	21.62	30.00
HT40	2	5755	18.40	19.11	---	---	150.654	21.78	30.00
HT40	2	5795	18.47	19.05	---	---	150.660	21.78	30.00
VHT20	2	5745	18.62	19.45	---	---	160.883	**22.07**	30.00
VHT20	2	5785	18.97	19.07	---	---	159.610	22.03	30.00
VHT20	2	5825	18.33	19.00	---	---	147.510	21.69	30.00
VHT40	2	5755	18.46	19.17	---	---	152.749	21.84	30.00
VHT40	2	5795	18.52	19.14	---	---	153.157	21.85	30.00
VHT80	2	5775	16.35	17.04			93.734	19.72	30.00

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

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

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

3.4.2 Test Procedures

For 5150~5250 MHz, 5250~5350 MHz, 5470~5725 MHz

☐ Method SA-1

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

☒ Method SA-2 Alternative

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

For 5725~5850 MHz

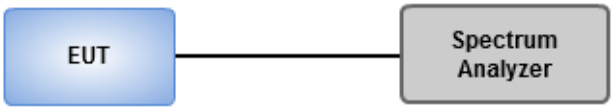
☐ Method SA-1

1. Set RBW = 500 kHz, VBW = 2 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

☒ Method SA-2 Alternative

1. Set RBW = 500 kHz, VBW = 2 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Frequency band			5150~5250 MHz / 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	5180	2.19	0.35	2.54	11
11a	1	5200	6.15	0.35	6.50	11
11a	1	5240	5.97	0.35	6.32	11
VHT20	2	5180	7.28	0.26	7.54	9.33
VHT20	2	5200	8.28	0.26	8.54	9.33
VHT20	2	5240	7.97	0.26	8.23	9.33
VHT40	2	5190	0.01	0.71	0.72	9.33
VHT40	2	5230	4.09	0.71	4.80	9.33
VHT80	2	5210	-2.89	1.63	-1.26	9.33
11a	1	5260	6.49	0.35	6.84	11
11a	1	5300	6.32	0.35	6.67	11
11a	1	5320	1.95	0.35	2.30	11
VHT20	2	5260	8.05	0.26	8.31	9.57
VHT20	2	5300	8.77	0.26	9.03	9.57
VHT20	2	5320	5.82	0.26	6.08	9.57
VHT40	2	5270	4.24	0.71	4.95	9.57
VHT40	2	5310	-2.03	0.71	-1.32	9.57
VHT80	2	5290	-5.39	1.63	-3.76	9.57

Note:
1. D.F is duty factor.
2. Test result of 2TX mode is bin-by-bin summing measured value of each TX port.
3. For For 2 TX mode
   5150~5250MHz band, Directional gain = $10 * \log((10^{4.36/20}+10^{4.95/20})^2/2)$ =7.67 dBi > 6 dBi
   Limit shall be reduced to 11 dBm – (7.67 dBi – 6 dBi) = 9.33 dBm.

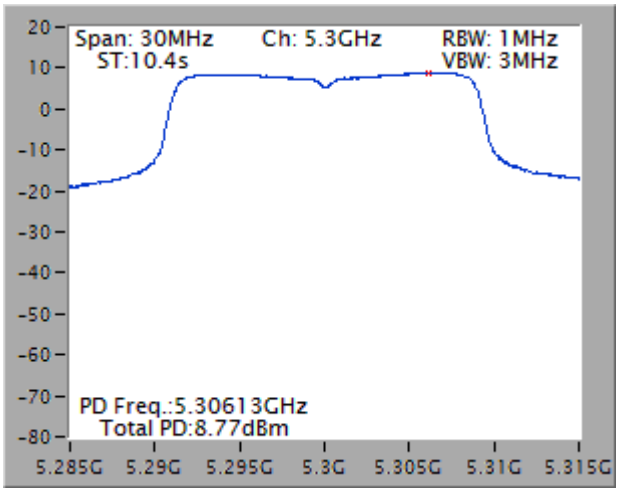
   5250~5350MHz band, Directional gain = $10 * \log((10^{4.36/20}+10^{4.48/20})^2/2)$ =7.43 dBi > 6 dBi
   Limit shall be reduced to 11 dBm – (7.43 dBi – 6 dBi) = 9.57 dBm.

Frequency band			5470~5725 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	6.38	0.35	6.73	11
11a	1	5580	5.83	0.35	6.18	11
11a	1	5700	3.17	0.35	3.52	11
VHT20	2	5500	6.38	0.26	6.64	9.08
VHT20	2	5580	8.50	0.26	8.76	9.08
VHT20	2	5700	4.47	0.26	4.73	9.08
VHT40	2	5510	-1.88	0.71	-1.17	9.08
VHT40	2	5590	4.89	0.71	5.60	9.08
VHT40	2	5670	1.26	0.71	1.97	9.08
VHT80	2	5530	-6.17	1.63	-4.54	9.08
VHT80	2	5610	-0.55	1.63	1.08	9.08

Note:

1. D.F is duty factor.
2. Test result of 2TX mode is bin-by-bin summing measured value of each TX port.
3. For 2TX mode, Directional gain = 10 * log((10$^{4.36/20}$+10$^{5.43/20}$)^2/2) =7.92 dBi > 6 dBi
   Limit shall be reduced to 11 dBm – (7.92 dBi – 6 dBi) = 9.08 dBm.

Worst Plot

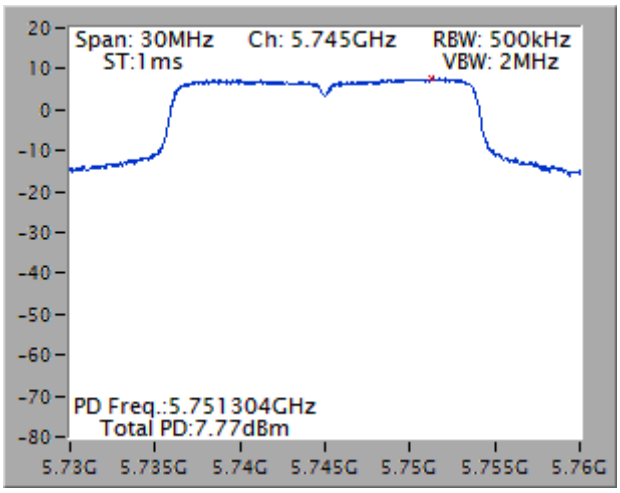


Note: The plot without duty factor

Frequency band			5725-5850 MHz			
Condition			Peak Power Spectral Density (dBm/500kHz)			
Mode	N_{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/500kHz)	Duty Factor (dB)	PPSD with D.F (dBm/500kHz)	PPSD Limit (dBm/500kHz)
11a	1	5745	3.78	0.35	4.13	30.00
11a	1	5785	4.09	0.35	4.44	30.00
11a	1	5825	4.06	0.35	4.41	30.00
VHT20	2	5745	7.77	0.26	8.03	27.97
VHT20	2	5785	7.75	0.26	8.01	27.97
VHT20	2	5825	7.46	0.26	7.72	27.97
VHT40	2	5755	3.10	0.71	3.81	27.97
VHT40	2	5795	3.64	0.71	4.35	27.97
VHT80	2	5775	-1.47	1.63	0.16	27.97

Note:
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 2TX mode, Directional gain = $10 * \log((10^{4.36/20}+10^{5.63/20})^2/2)$ = 8.03 dBi > 6 dBi
   Limit shall be reduced to 30 dBm – (8.03dBi – 6 dBi) = 27.97 dBm

Worst Plot



Note: The plot without duty factor

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit		
Operating Band	**Limit**	
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]	
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]	
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]	
5.725 - 5.850 GHz	☒	15.407(b)(4)(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
	☐	15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d) Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition,radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see § 15.205(c))

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

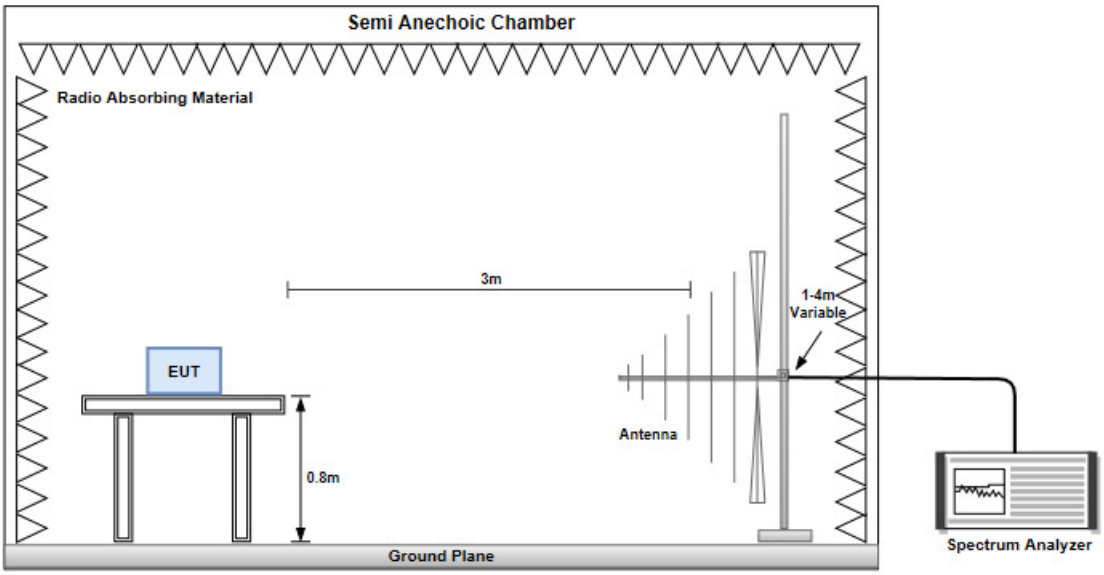
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

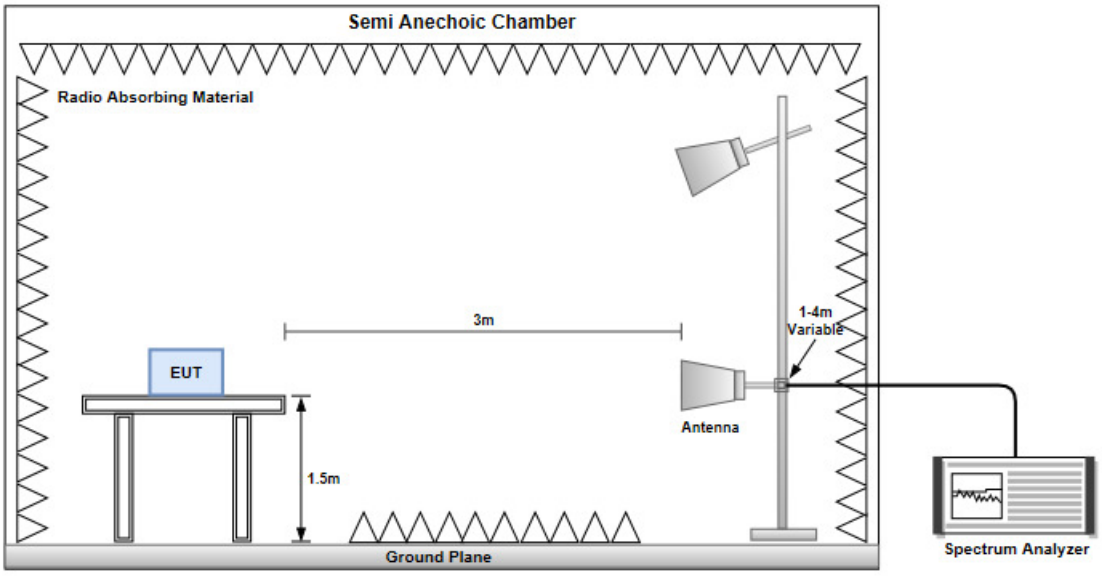
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



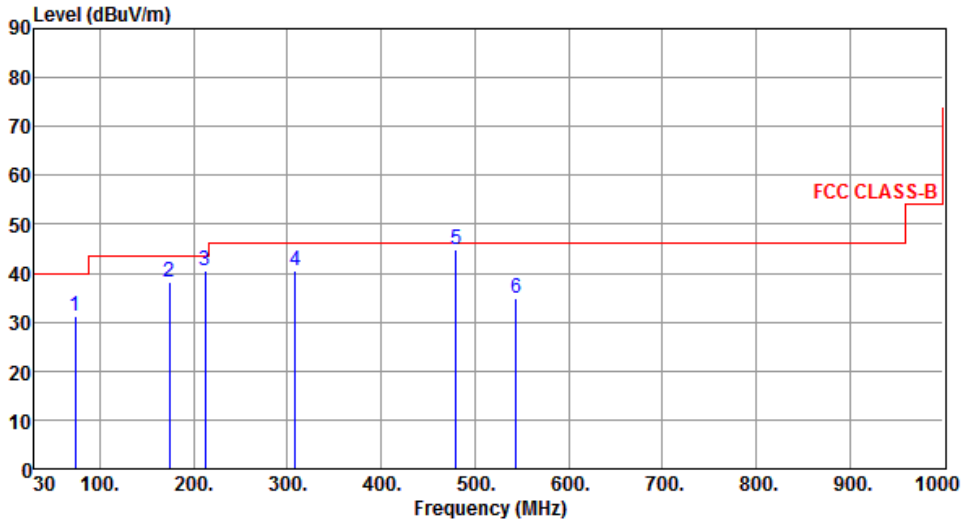
Radiated Emissions above 1 GHz



Configuration 1: On-board ANT0 + On-board ANT1 mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

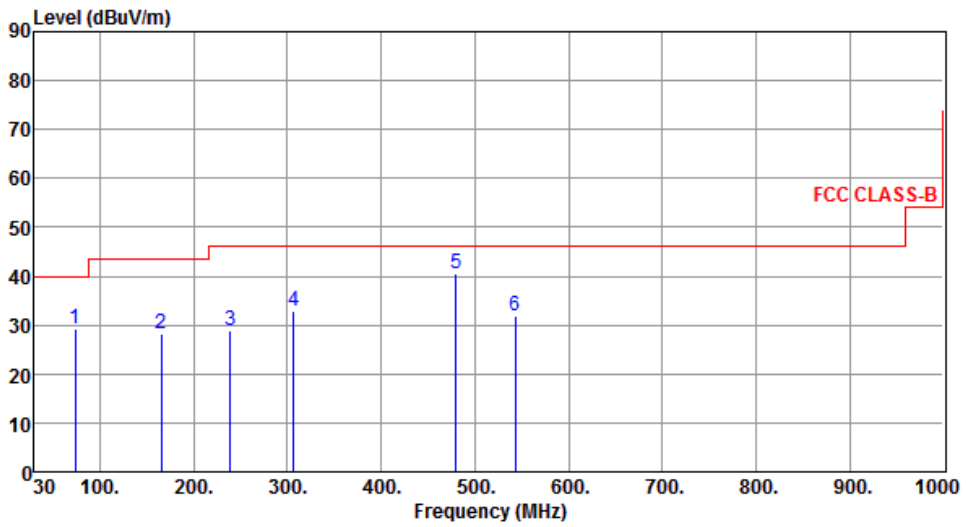
Modulation	VHT20	**Test Freq. (MHz)**	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	73.65	31.13	40.00	-8.87	42.50	-11.37	Peak	---	---
2	174.53	38.25	43.50	-5.25	47.25	-9.00	Peak	---	---
3	212.36	40.38	43.50	-3.12	51.32	-10.94	Peak	---	---
4	308.39	40.36	46.00	-5.64	47.83	-7.47	Peak	---	---
5	480.08	44.98	46.00	-1.02	48.19	-3.21	QP	178	72
6	544.10	34.90	46.00	-11.10	37.00	-2.10	Peak	---	---

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

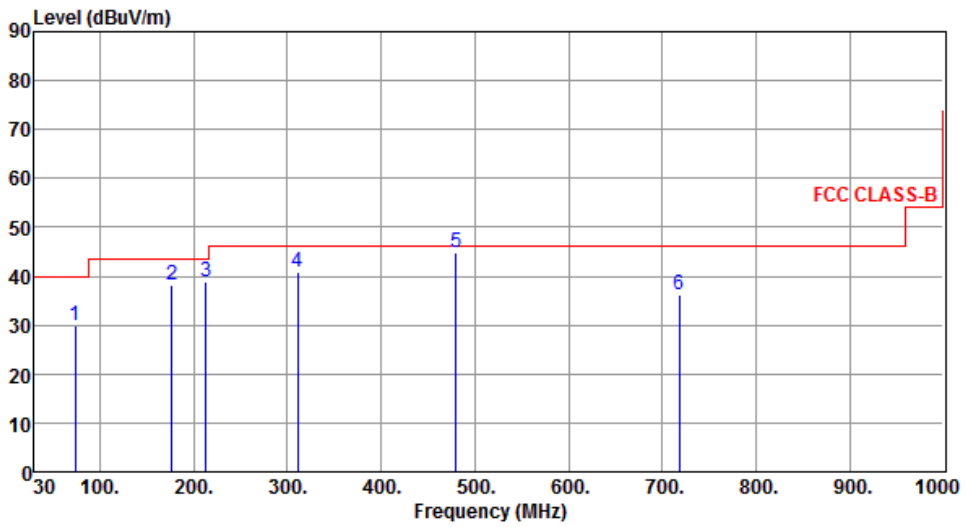
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	73.65	29.13	40.00	-10.87	40.50	-11.37	Peak	---	---
2	165.80	28.23	43.50	-15.27	36.51	-8.28	Peak	---	---
3	239.52	28.81	46.00	-17.19	38.41	-9.60	Peak	---	---
4	306.45	32.78	46.00	-13.22	40.30	-7.52	Peak	---	---
5	480.08	40.61	46.00	-5.39	43.82	-3.21	Peak	---	---
6	543.13	31.77	46.00	-14.23	33.89	-2.12	Peak	---	---

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

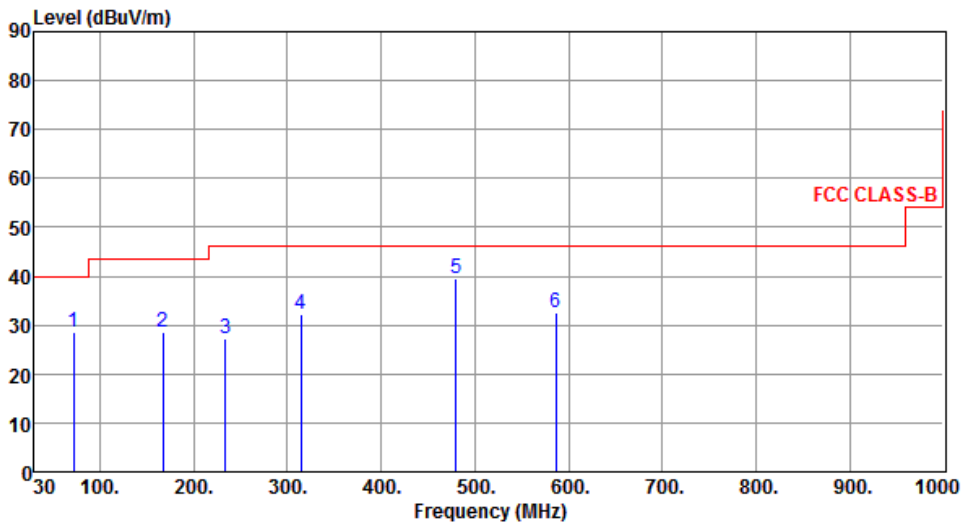
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	73.65	30.05	40.00	-9.95	41.42	-11.37	Peak	---	---
2	176.47	38.35	43.50	-5.15	47.60	-9.25	Peak	---	---
3	213.33	38.97	43.50	-4.53	49.89	-10.92	Peak	---	---
4	311.30	40.96	46.00	-5.04	48.35	-7.39	Peak	---	---
5	480.08	44.82	46.00	-1.18	48.03	-3.21	QP	176	74
6	717.73	36.06	46.00	-9.94	34.93	1.13	Peak	---	---

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

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

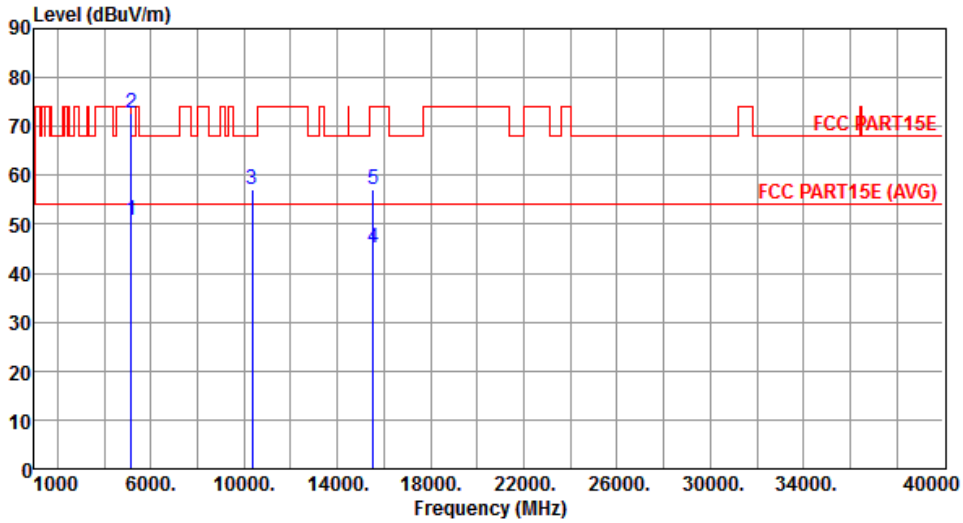


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	71.71	28.52	40.00	-11.48	39.44	-10.92	Peak	---	---
2	166.77	28.48	43.50	-15.02	36.81	-8.33	Peak	---	---
3	233.70	27.25	46.00	-18.75	37.28	-10.03	Peak	---	---
4	314.21	32.06	46.00	-13.94	39.38	-7.32	Peak	---	---
5	480.08	39.60	46.00	-6.40	42.81	-3.21	Peak	---	---
6	586.78	32.55	46.00	-13.45	33.55	-1.00	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).
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

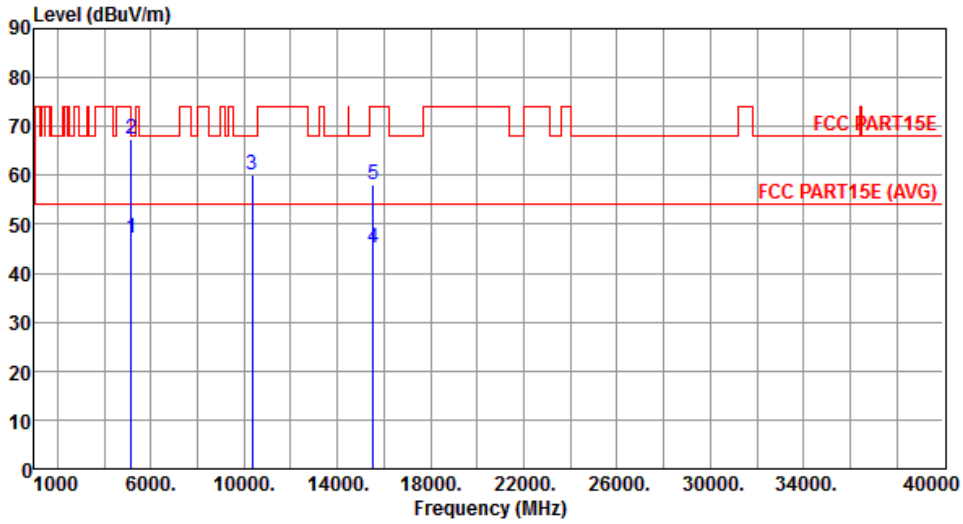
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		



	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	50.72	54.00	-3.28	44.85	5.87	Average	223	5
2	5150.00	72.89	74.00	-1.11	67.02	5.87	Peak	223	5
3	10360.00	57.16	68.20	-11.04	41.94	15.22	Peak	208	144
4	15540.00	45.06	54.00	-8.94	28.99	16.07	Average	129	135
5	15540.00	57.24	74.00	-16.76	41.17	16.07	Peak	129	135

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

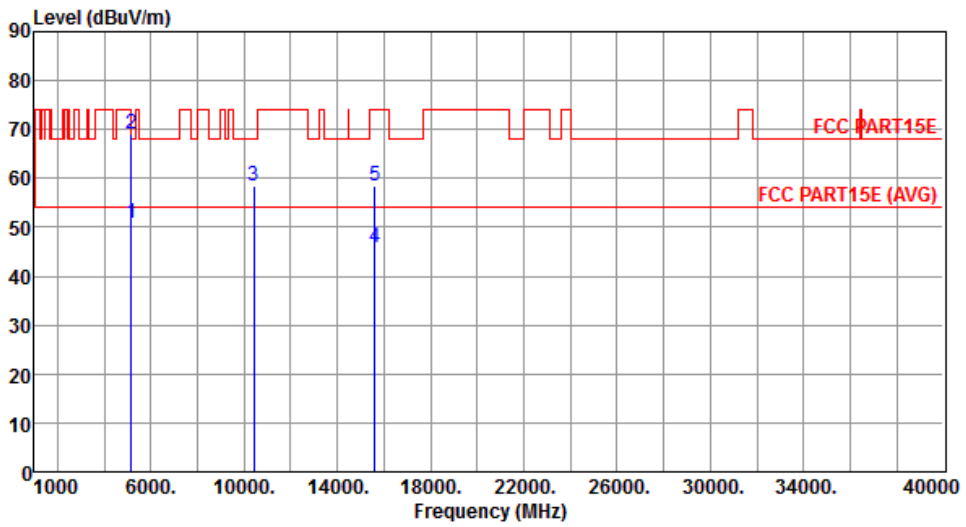
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	47.05	54.00	-6.95	41.18	5.87	Average	202	208
2	5150.00	67.31	74.00	-6.69	61.44	5.87	Peak	202	208
3	10360.00	60.21	68.20	-7.99	44.99	15.22	Peak	182	204
4	15540.00	45.16	54.00	-8.84	29.09	16.07	Average	155	203
5	15540.00	58.02	74.00	-15.98	41.95	16.07	Peak	155	203

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

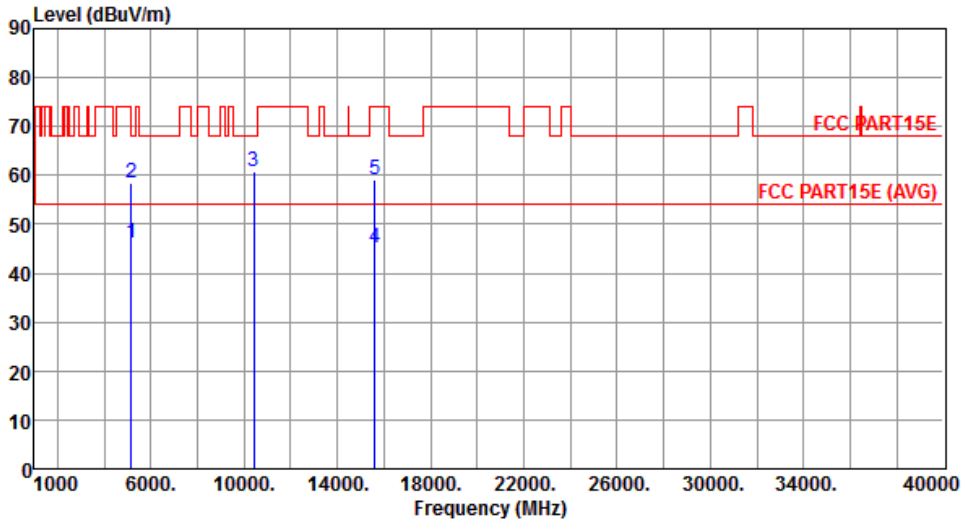
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	50.79	54.00	-3.21	44.92	5.87	Average	224	6
2	5150.00	69.08	74.00	-4.92	63.21	5.87	Peak	224	6
3	10400.00	58.46	68.20	-9.74	43.19	15.27	Peak	161	213
4	15600.00	45.84	54.00	-8.16	29.84	16.00	Average	163	144
5	15600.00	58.39	74.00	-15.61	42.39	16.00	Peak	163	144

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

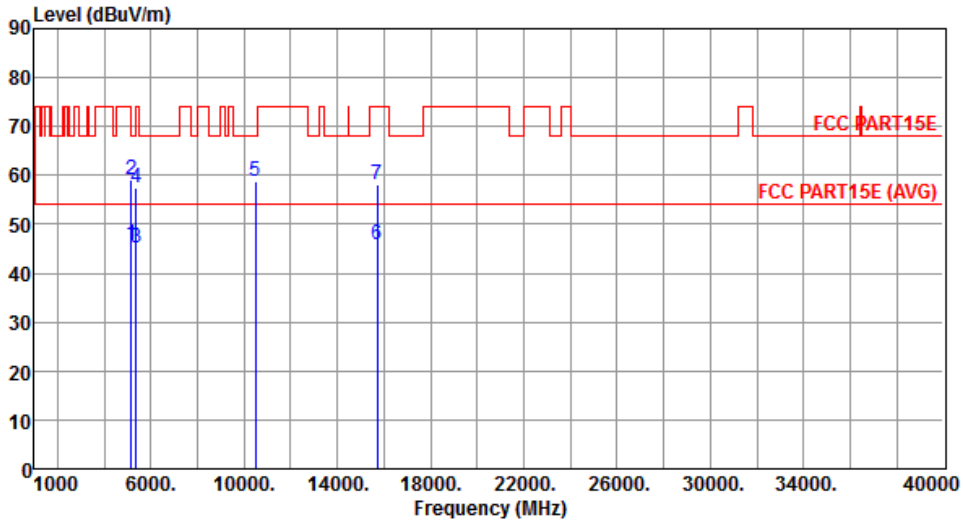
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	46.08	54.00	-7.92	40.21	5.87	Average	210	204
2	5150.00	58.45	74.00	-15.55	52.58	5.87	Peak	210	204
3	10400.00	60.78	68.20	-7.42	45.51	15.27	Peak	188	204
4	15600.00	45.24	54.00	-8.76	29.24	16.00	Average	206	198
5	15600.00	58.96	74.00	-15.04	42.96	16.00	Peak	206	198

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

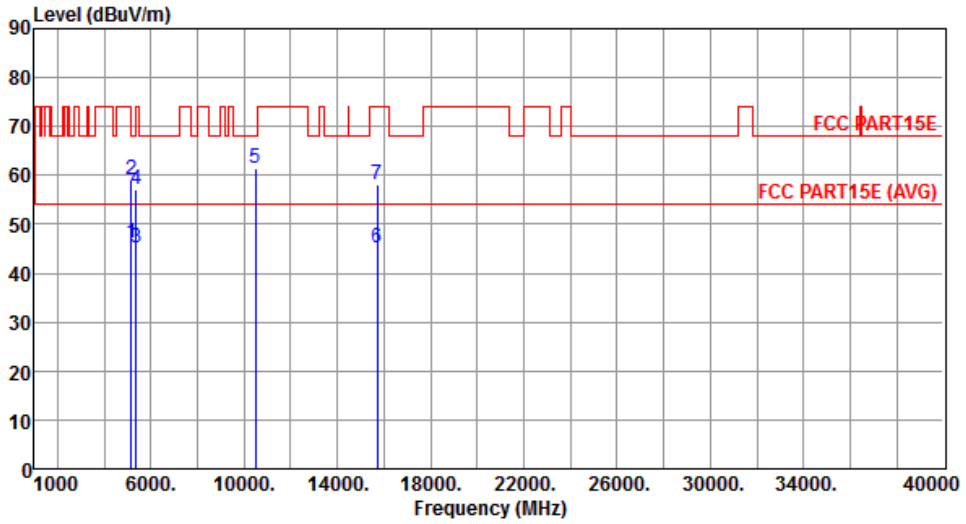
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.89	54.00	-8.11	40.02	5.87	Average	202	6
2	5150.00	59.09	74.00	-14.91	53.22	5.87	Peak	202	6
3	5350.00	45.18	54.00	-8.82	38.97	6.21	Average	202	6
4	5350.00	57.31	74.00	-16.69	51.10	6.21	Peak	202	6
5	10480.00	58.65	68.20	-9.55	43.29	15.36	Peak	241	356
6	15720.00	45.69	54.00	-8.31	29.83	15.86	Average	212	338
7	15720.00	58.21	74.00	-15.79	42.35	15.86	Peak	212	338

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

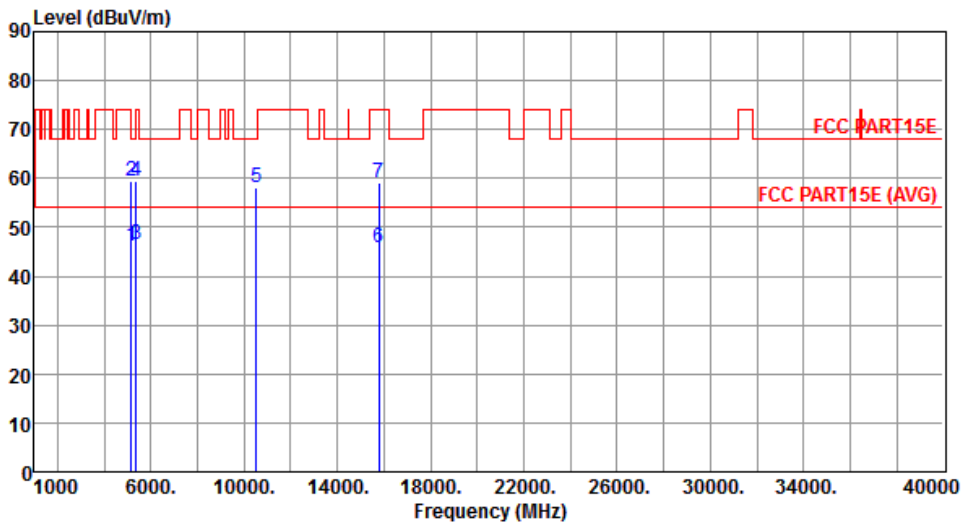
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.10	54.00	-7.90	40.23	5.87	Average	212	206
2	5150.00	59.05	74.00	-14.95	53.18	5.87	Peak	212	206
3	5350.00	45.01	54.00	-8.99	38.80	6.21	Average	212	206
4	5350.00	57.12	74.00	-16.88	50.91	6.21	Peak	212	206
5	10480.00	61.59	68.20	-6.61	46.23	15.36	Peak	184	166
6	15720.00	45.26	54.00	-8.74	29.40	15.86	Average	165	203
7	15720.00	58.14	74.00	-15.86	42.28	15.86	Peak	165	203

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

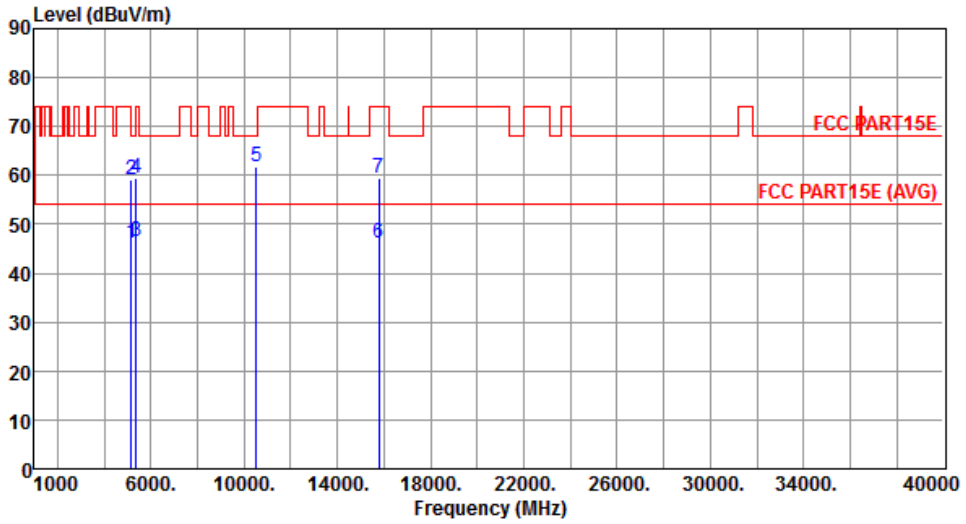
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.15	54.00	-7.85	40.28	5.87	Average	203	6
2	5150.00	59.34	74.00	-14.66	53.47	5.87	Peak	203	6
3	5350.00	46.35	54.00	-7.65	40.14	6.21	Average	203	6
4	5350.00	59.51	74.00	-14.49	53.30	6.21	Peak	203	6
5	10520.00	58.26	68.20	-9.94	42.85	15.41	Peak	191	145
6	15780.00	45.84	54.00	-8.16	30.06	15.78	Average	192	142
7	15780.00	59.06	74.00	-14.94	43.28	15.78	Peak	192	142

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

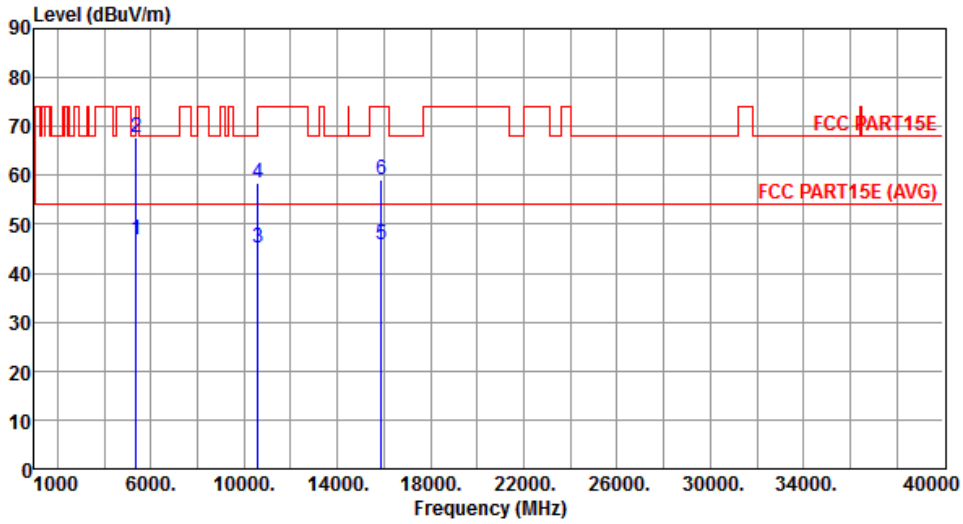
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	46.24	54.00	-7.76	40.37	5.87	Average	216	208
2	5150.00	59.11	74.00	-14.89	53.24	5.87	Peak	216	208
3	5350.00	46.46	54.00	-7.54	40.25	6.21	Average	216	208
4	5350.00	59.55	74.00	-14.45	53.34	6.21	Peak	216	208
5	10520.00	61.62	68.20	-6.58	46.21	15.41	Peak	166	193
6	15780.00	46.24	54.00	-7.76	30.46	15.78	Average	159	203
7	15780.00	59.35	74.00	-14.65	43.57	15.78	Peak	159	203

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

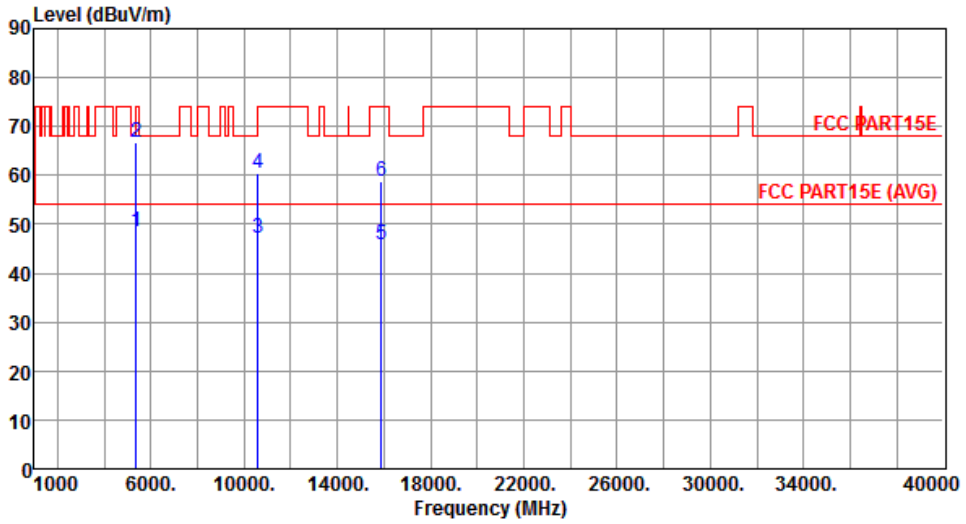
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	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	46.81	54.00	-7.19	40.60	6.21	Average	201	8
2	5350.00	67.91	74.00	-6.09	61.70	6.21	Peak	201	8
3	10600.00	45.24	54.00	-8.76	29.78	15.46	Average	191	158
4	10600.00	58.46	74.00	-15.54	43.00	15.46	Peak	191	158
5	15900.00	45.82	54.00	-8.18	30.18	15.64	Average	166	148
6	15900.00	59.14	74.00	-14.86	43.50	15.64	Peak	166	148

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

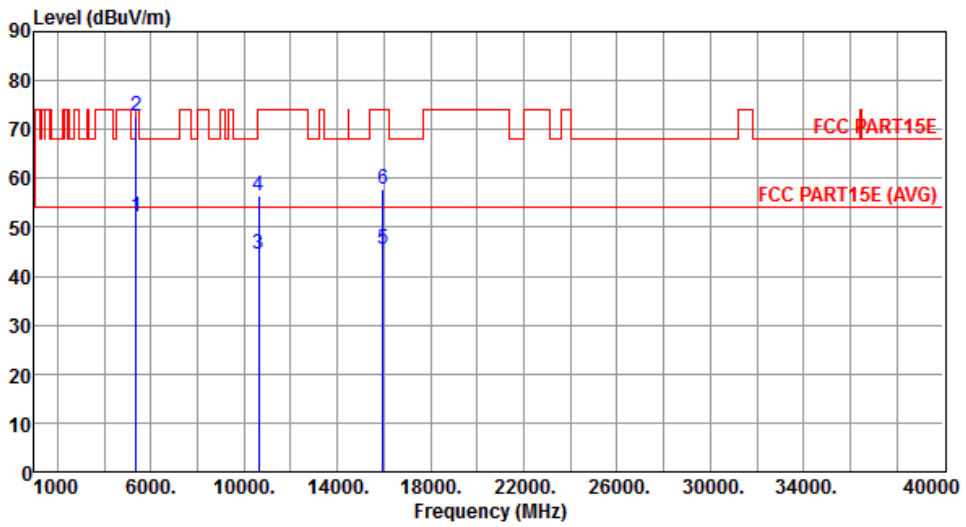
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.36	54.00	-5.64	42.15	6.21	Average	215	210
2	5350.00	66.82	74.00	-7.18	60.61	6.21	Peak	215	210
3	10600.00	47.25	54.00	-6.75	31.79	15.46	Average	191	204
4	10600.00	60.28	74.00	-13.72	44.82	15.46	Peak	191	204
5	15900.00	45.86	54.00	-8.14	30.22	15.64	Average	151	219
6	15900.00	58.69	74.00	-15.31	43.05	15.64	Peak	151	219

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

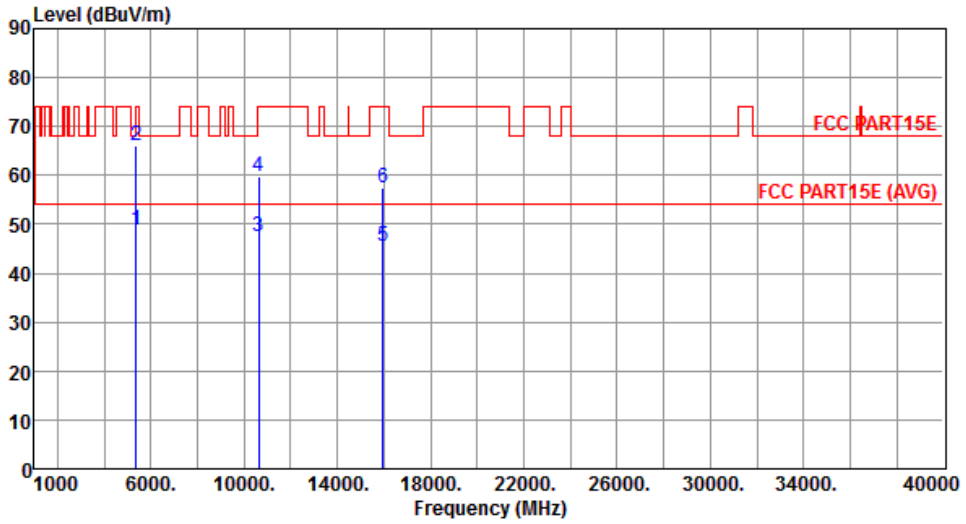
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	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	52.18	54.00	-1.82	45.97	6.21	Average	200	6
2	5350.00	72.76	74.00	-1.24	66.55	6.21	Peak	200	6
3	10640.00	44.58	54.00	-9.42	29.09	15.49	Average	161	204
4	10640.00	56.62	74.00	-17.38	41.13	15.49	Peak	161	204
5	15960.00	45.42	54.00	-8.58	29.85	15.57	Average	161	183
6	15960.00	57.81	74.00	-16.19	42.24	15.57	Peak	161	183

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

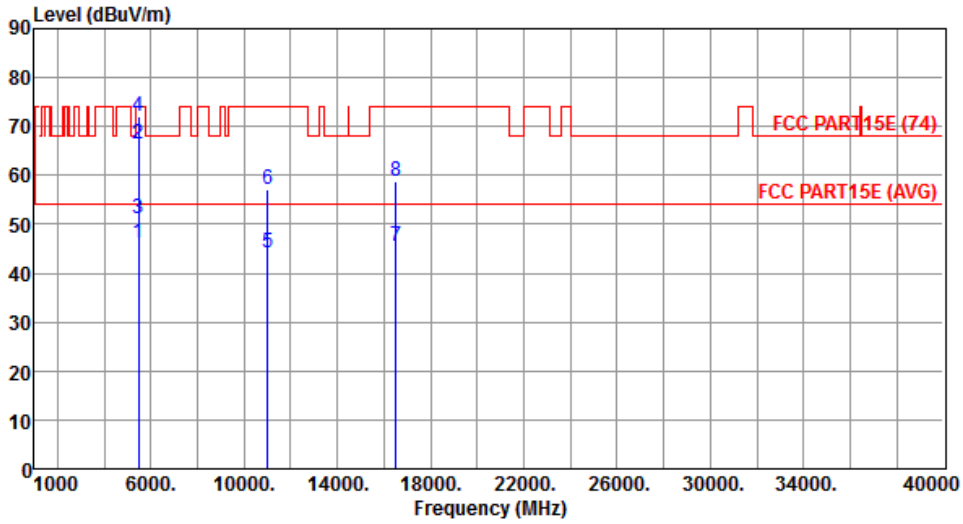
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	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	48.85	54.00	-5.15	42.64	6.21	Average	216	211
2	5350.00	66.24	74.00	-7.76	60.03	6.21	Peak	216	211
3	10640.00	47.45	54.00	-6.55	31.96	15.49	Average	181	165
4	10640.00	59.62	74.00	-14.38	44.13	15.49	Peak	181	165
5	15960.00	45.63	54.00	-8.37	30.06	15.57	Average	168	172
6	15960.00	57.61	74.00	-16.39	42.04	15.57	Peak	168	172

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

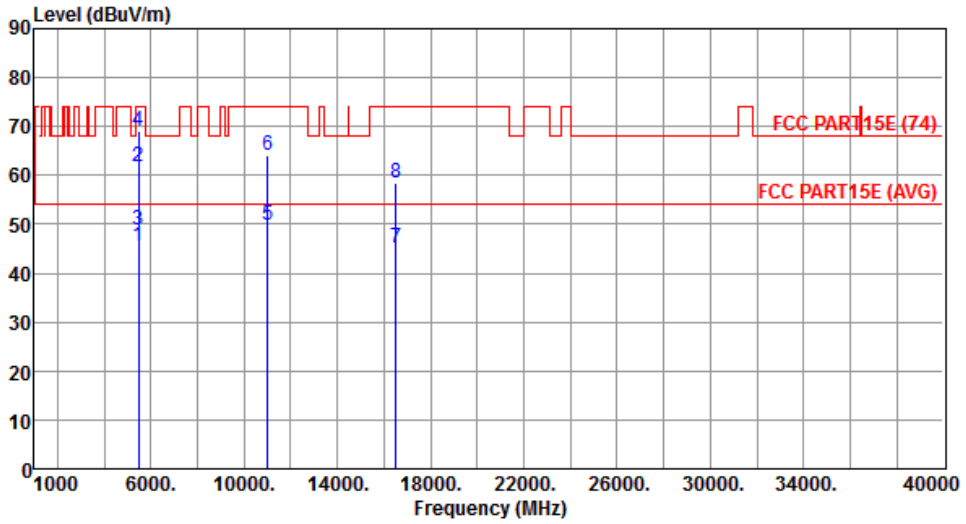
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.23	54.00	-7.77	39.87	6.36	Average	202	3
2	5460.00	66.32	74.00	-7.68	59.96	6.36	Peak	202	3
3	5470.00	51.29	54.00	-2.71	44.92	6.37	Average	202	3
4	5470.00	71.96	74.00	-2.04	65.59	6.37	Peak	202	3
5	11000.00	44.15	54.00	-9.85	28.41	15.74	Average	165	216
6	11000.00	56.98	74.00	-17.02	41.24	15.74	Peak	165	216
7	16500.00	45.55	54.00	-8.45	29.52	16.03	Average	166	221
8	16500.00	58.62	74.00	-15.38	42.59	16.03	Peak	166	221

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

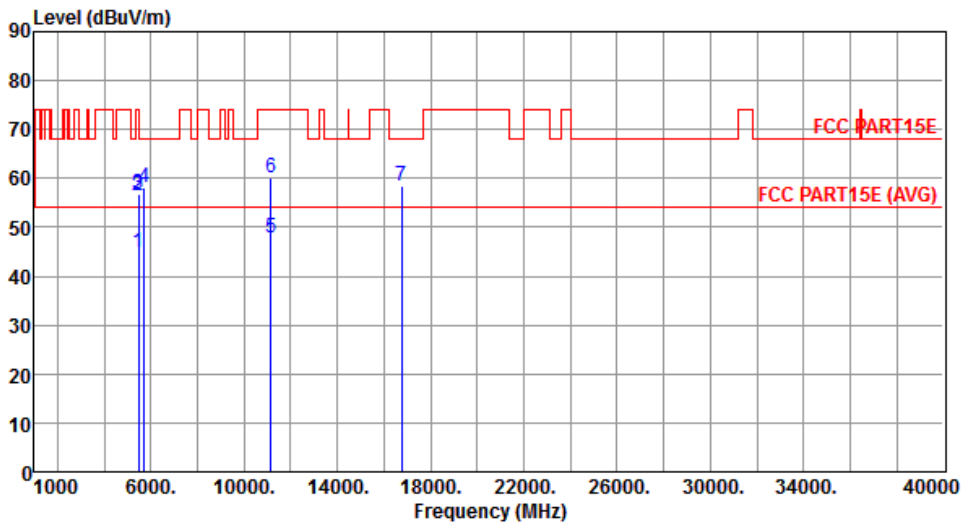
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	45.54	54.00	-8.46	39.18	6.36	Average	274	267
2	5460.00	61.64	74.00	-12.36	55.28	6.36	Peak	274	267
3	5470.00	48.76	54.00	-5.24	42.39	6.37	Average	274	267
4	5470.00	68.95	74.00	-5.05	62.58	6.37	Peak	274	267
5	11000.00	49.86	54.00	-4.14	34.12	15.74	Average	161	183
6	11000.00	64.12	74.00	-9.88	48.38	15.74	Peak	161	183
7	16500.00	45.11	54.00	-8.89	29.08	16.03	Average	160	155
8	16500.00	58.39	74.00	-15.61	42.36	16.03	Peak	160	155

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

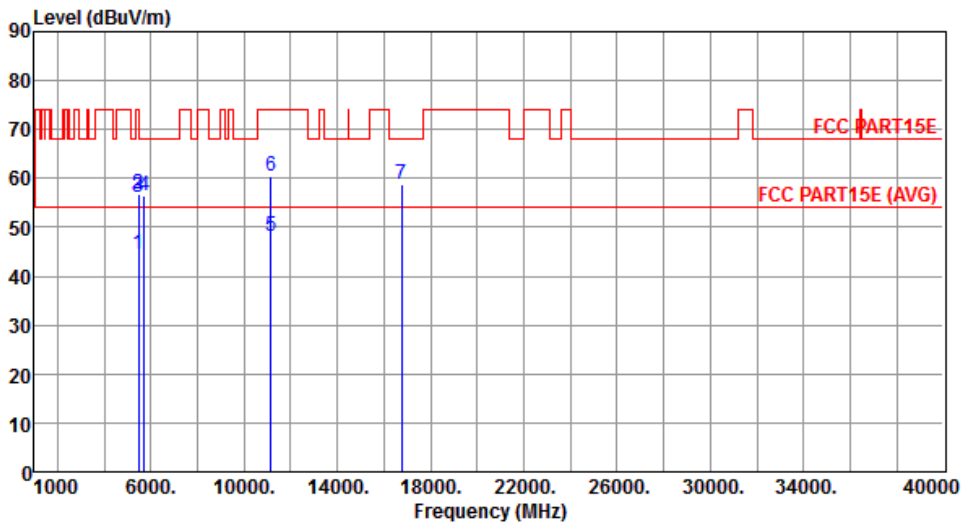
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	44.88	54.00	-9.12	38.52	6.36	Average	202	9
2	5460.00	56.51	74.00	-17.49	50.15	6.36	Peak	202	9
3	5470.00	56.86	68.20	-11.34	50.49	6.37	Peak	202	9
4	5725.00	58.15	68.20	-10.05	51.32	6.83	Peak	202	9
5	11160.00	47.68	54.00	-6.32	31.85	15.83	Average	161	184
6	11160.00	60.12	74.00	-13.88	44.29	15.83	Peak	161	184
7	16740.00	58.45	68.20	-9.75	41.65	16.80	Peak	162	191

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

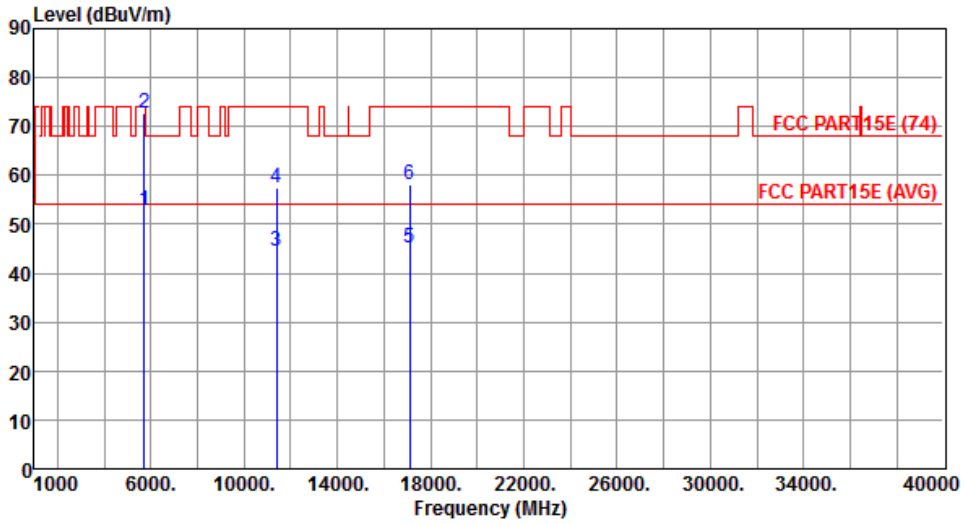
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	44.47	54.00	-9.53	38.11	6.36	Average	275	268
2	5460.00	56.68	74.00	-17.32	50.32	6.36	Peak	275	268
3	5470.00	56.09	68.20	-12.11	49.72	6.37	Peak	275	268
4	5725.00	56.30	68.20	-11.90	49.47	6.83	Peak	275	268
5	11160.00	48.32	54.00	-5.68	32.49	15.83	Average	161	245
6	11160.00	60.57	74.00	-13.43	44.74	15.83	Peak	161	245
7	16740.00	58.63	68.20	-9.57	41.83	16.80	Peak	166	240

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

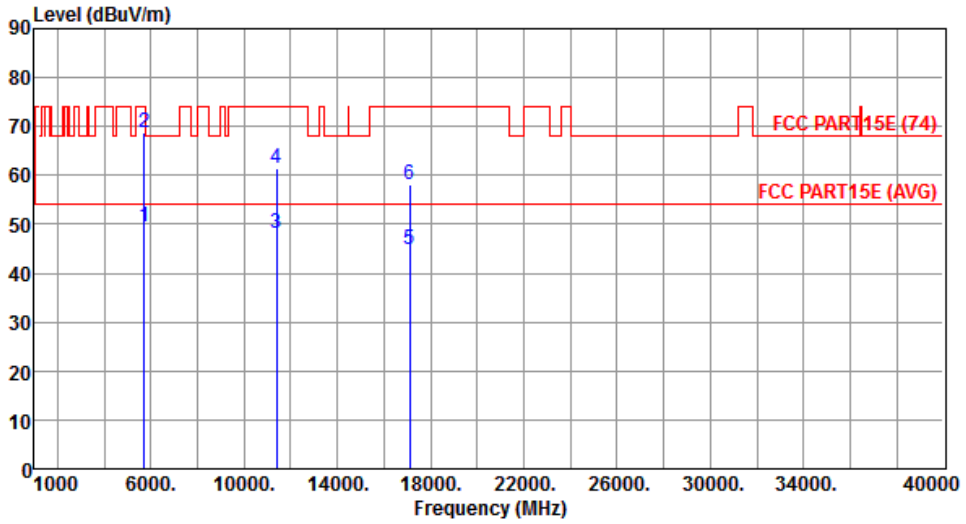
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	52.94	54.00	-1.06	46.11	6.83	Average	205	4
2	5725.00	72.89	74.00	-1.11	66.06	6.83	Peak	205	4
3	11400.00	44.56	54.00	-9.44	28.60	15.96	Average	135	149
4	11400.00	57.42	74.00	-16.58	41.46	15.96	Peak	135	149
5	17100.00	45.06	54.00	-8.94	27.10	17.96	Average	142	156
6	17100.00	58.11	74.00	-15.89	40.15	17.96	Peak	142	156

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

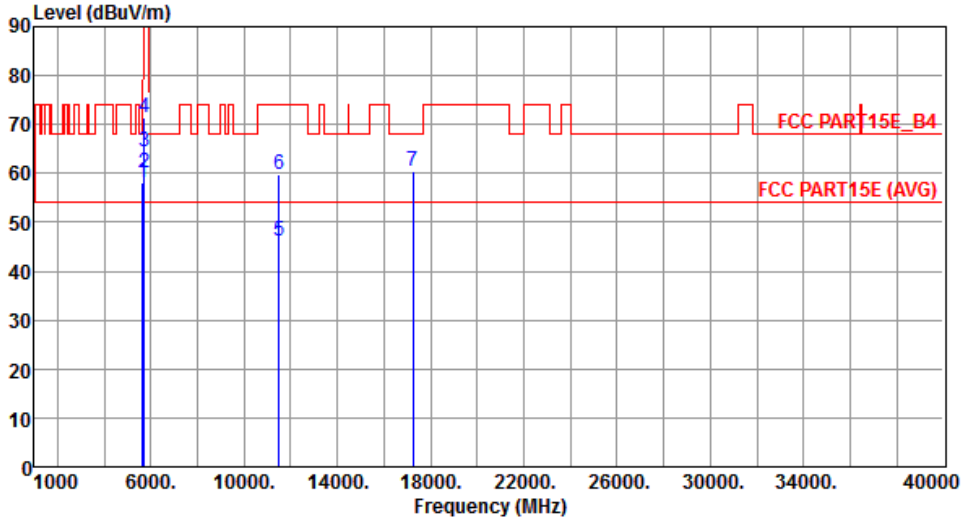
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	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	49.44	54.00	-4.56	42.61	6.83	Average	275	269
2	5725.00	68.87	74.00	-5.13	62.04	6.83	Peak	275	269
3	11400.00	48.13	54.00	-5.87	32.17	15.96	Average	151	122
4	11400.00	61.45	74.00	-12.55	45.49	15.96	Peak	151	122
5	17100.00	44.96	54.00	-9.04	27.00	17.96	Average	153	129
6	17100.00	58.08	74.00	-15.92	40.12	17.96	Peak	153	129

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

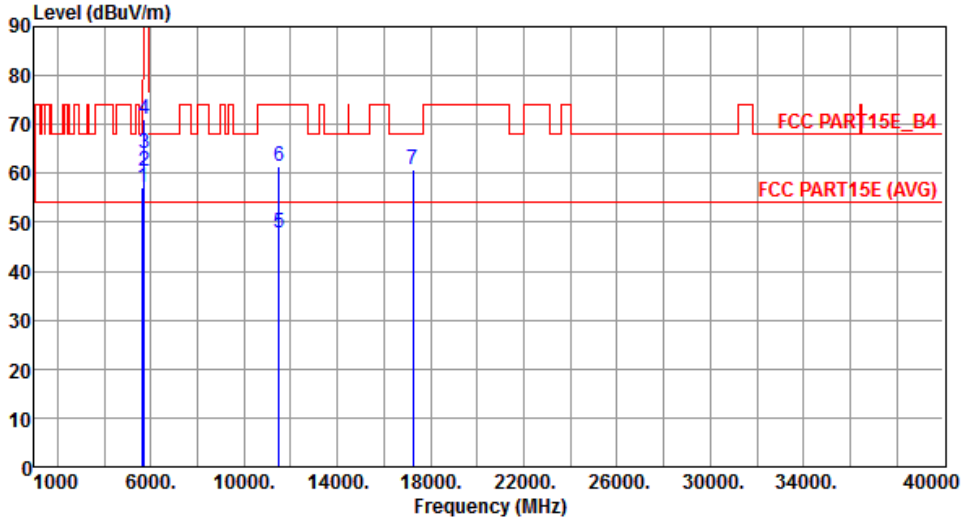
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.06	68.20	-10.14	51.43	6.63	Peak	201	334
2	5700.00	59.99	105.20	-45.21	53.22	6.77	Peak	201	334
3	5720.00	64.37	110.80	-46.43	57.55	6.82	Peak	201	334
4	5725.00	71.35	122.20	-50.85	64.52	6.83	Peak	201	334
5	11490.00	46.08	54.00	-7.92	30.07	16.01	Average	165	219
6	11490.00	59.82	74.00	-14.18	43.81	16.01	Peak	165	219
7	17235.00	60.42	68.20	-7.78	41.99	18.43	Peak	162	234

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

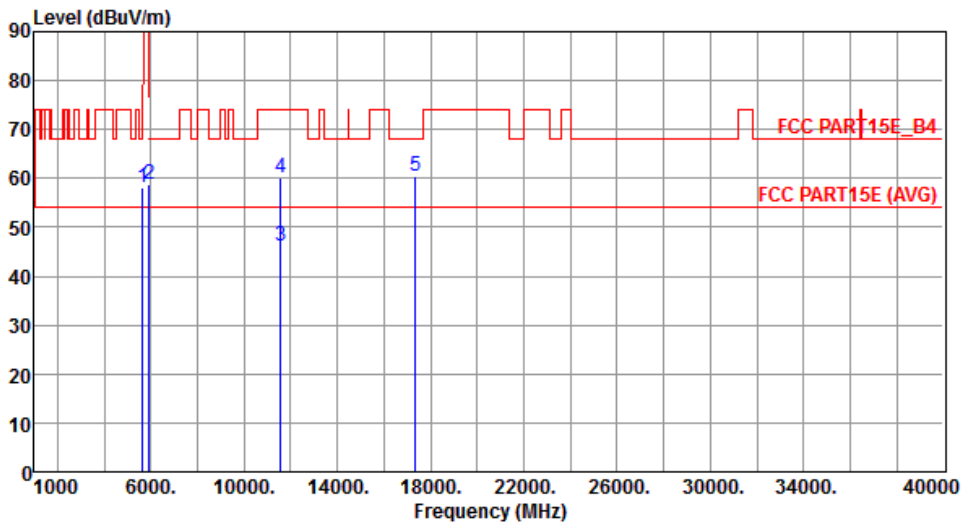
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.21	68.20	-10.99	50.58	6.63	Peak	254	248
2	5700.00	60.33	105.20	-44.87	53.56	6.77	Peak	254	248
3	5720.00	64.03	110.80	-46.77	57.21	6.82	Peak	254	248
4	5725.00	71.09	122.20	-51.11	64.26	6.83	Peak	254	248
5	11490.00	47.83	54.00	-6.17	31.82	16.01	Average	168	184
6	11490.00	61.54	74.00	-12.46	45.53	16.01	Peak	168	184
7	17235.00	60.69	68.20	-7.51	42.26	18.43	Peak	155	201

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

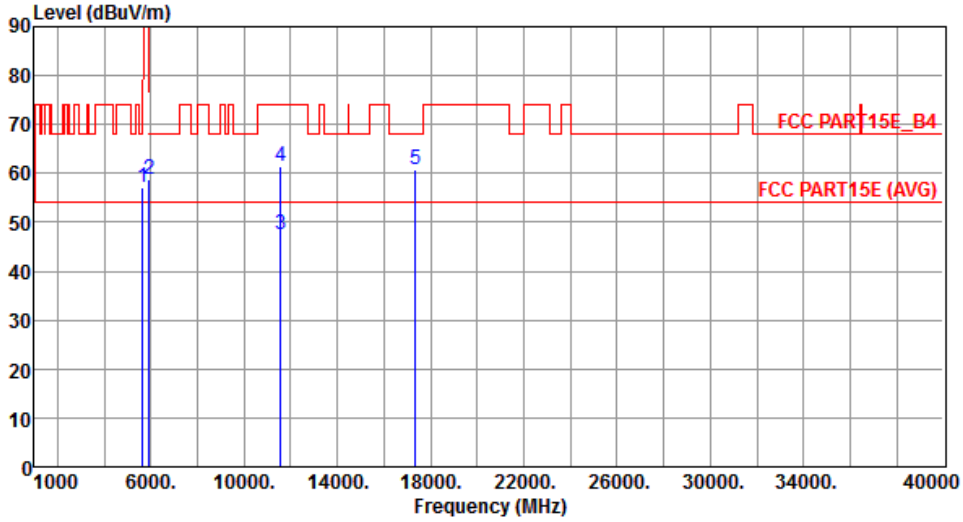
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.02	68.20	-10.18	51.39	6.63	Peak	202	335
2	5925.00	58.88	68.20	-9.32	51.54	7.34	Peak	202	335
3	11570.00	46.13	54.00	-7.87	30.24	15.89	Average	162	255
4	11570.00	60.04	74.00	-13.96	44.15	15.89	Peak	162	255
5	17355.00	60.33	68.20	-7.87	41.51	18.82	Peak	166	249

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

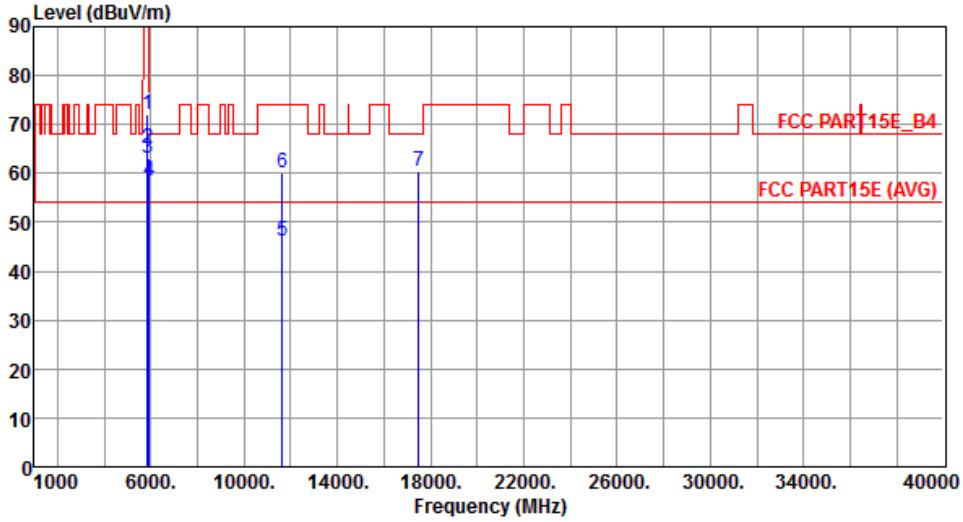
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.11	68.20	-11.09	50.48	6.63	Peak	251	269
2	5925.00	58.78	68.20	-9.42	51.44	7.34	Peak	251	269
3	11570.00	47.62	54.00	-6.38	31.73	15.89	Average	181	196
4	11570.00	61.35	74.00	-12.65	45.46	15.89	Peak	181	196
5	17355.00	60.84	68.20	-7.36	42.02	18.82	Peak	177	210

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

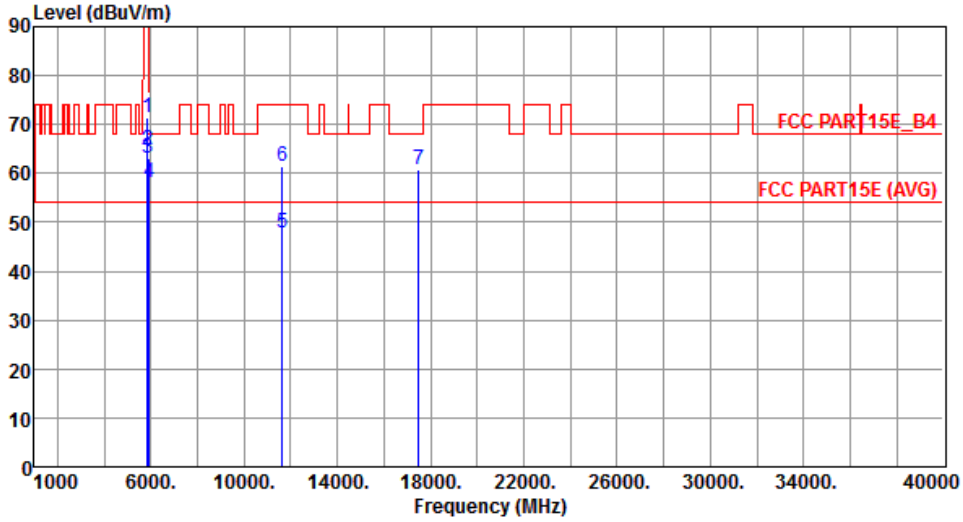
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	71.91	122.20	-50.29	64.75	7.16	Peak	201	335
2	5855.00	65.13	110.80	-45.67	57.95	7.18	Peak	201	335
3	5875.00	63.15	105.20	-42.05	55.92	7.23	Peak	201	335
4	5925.00	58.46	68.20	-9.74	51.12	7.34	Peak	201	335
5	11650.00	46.25	54.00	-7.75	30.51	15.74	Average	160	278
6	11650.00	60.14	74.00	-13.86	44.40	15.74	Peak	160	278
7	17475.00	60.35	68.20	-7.85	41.12	19.23	Peak	159	247

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

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

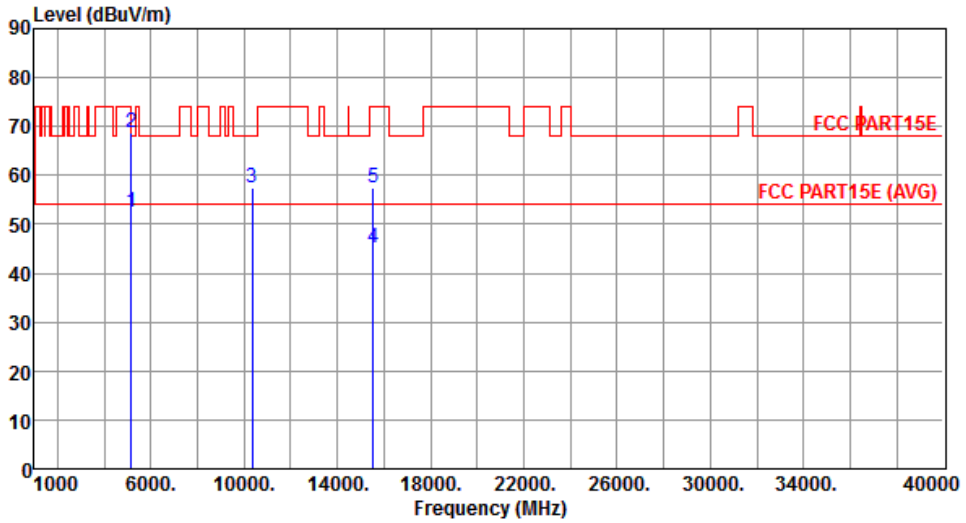


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	71.37	122.20	-50.83	64.21	7.16	Peak	235	264
2	5855.00	64.82	110.80	-45.98	57.64	7.18	Peak	235	264
3	5875.00	62.99	105.20	-42.21	55.76	7.23	Peak	235	264
4	5925.00	58.06	68.20	-10.14	50.72	7.34	Peak	235	264
5	11650.00	47.82	54.00	-6.18	32.08	15.74	Average	183	142
6	11650.00	61.52	74.00	-12.48	45.78	15.74	Peak	183	142
7	17475.00	60.93	68.20	-7.27	41.70	19.23	Peak	184	215

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

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

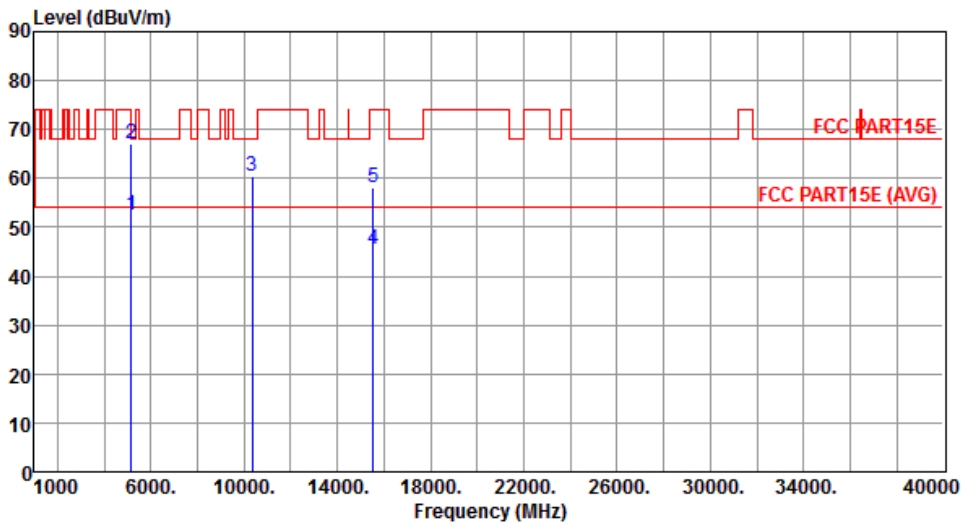
Modulation	VHT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.40	54.00	-1.60	46.53	5.87	Average	208	1
2	5150.00	68.75	74.00	-5.25	62.88	5.87	Peak	208	1
3	10360.00	57.35	68.20	-10.85	42.13	15.22	Peak	222	132
4	15540.00	45.19	54.00	-8.81	29.12	16.07	Average	135	142
5	15540.00	57.40	74.00	-16.60	41.33	16.07	Peak	135	142

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

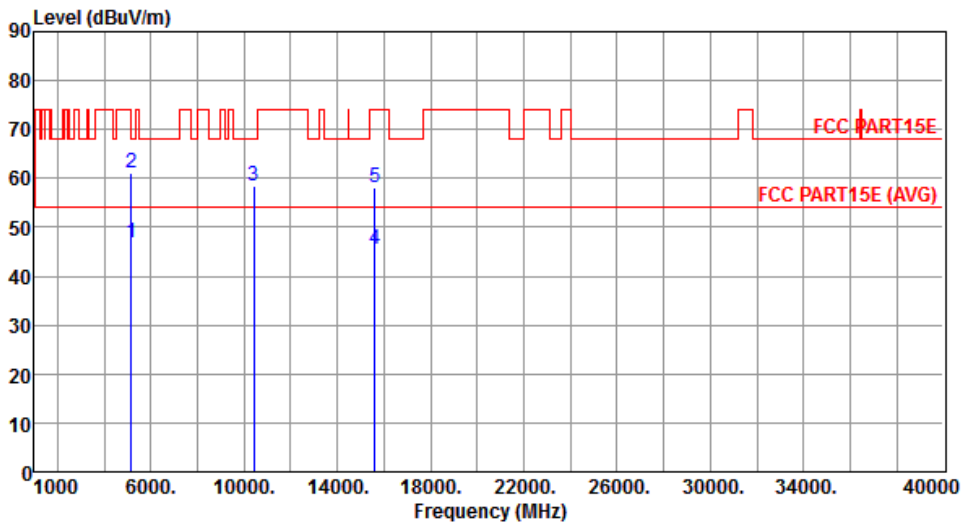
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	52.54	54.00	-1.46	46.67	5.87	Average	330	262
2	5150.00	67.05	74.00	-6.95	61.18	5.87	Peak	330	262
3	10360.00	60.44	68.20	-7.76	45.22	15.22	Peak	180	195
4	15540.00	45.42	54.00	-8.58	29.35	16.07	Average	143	212
5	15540.00	58.28	74.00	-15.72	42.21	16.07	Peak	143	212

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

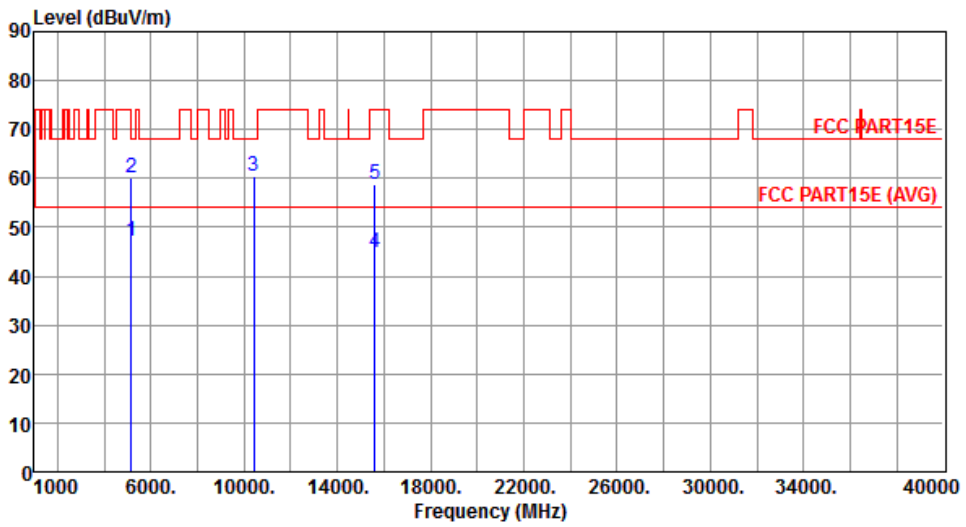
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	46.94	54.00	-7.06	41.07	5.87	Average	208	0
2	5150.00	61.02	74.00	-12.98	55.15	5.87	Peak	208	0
3	10400.00	58.30	68.20	-9.90	43.03	15.27	Peak	159	207
4	15600.00	45.62	54.00	-8.38	29.62	16.00	Average	159	126
5	15600.00	58.23	74.00	-15.77	42.23	16.00	Peak	159	126

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

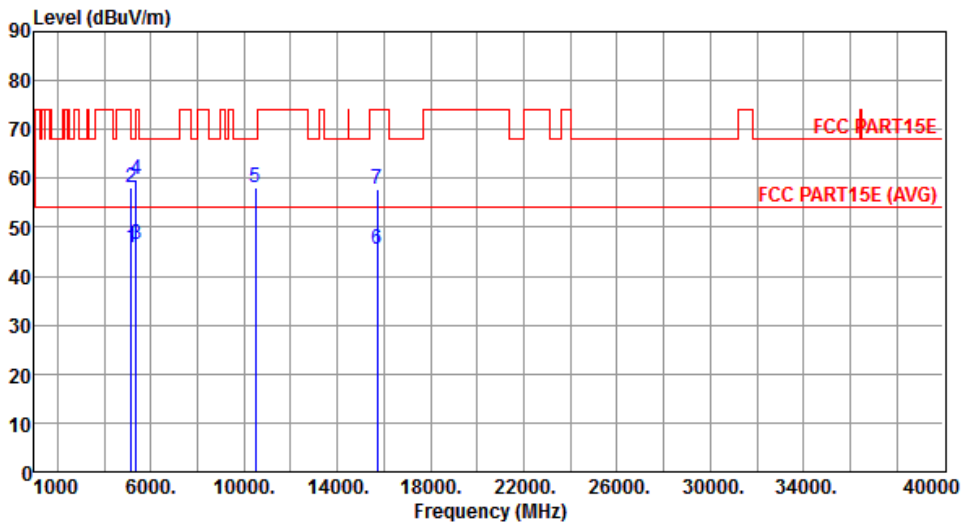
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	47.26	54.00	-6.74	41.39	5.87	Average	263	263
2	5150.00	60.20	74.00	-13.80	54.33	5.87	Peak	263	263
3	10400.00	60.55	68.20	-7.65	45.28	15.27	Peak	178	197
4	15600.00	45.00	54.00	-9.00	29.00	16.00	Average	200	243
5	15600.00	58.84	74.00	-15.16	42.84	16.00	Peak	200	243

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

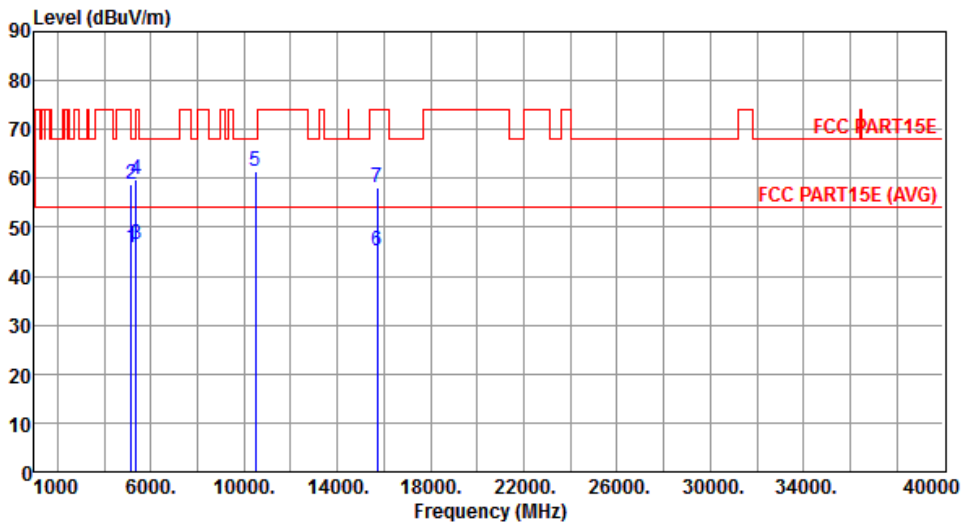
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	45.91	54.00	-8.09	40.04	5.87	Average	199	357
2	5150.00	58.25	74.00	-15.75	52.38	5.87	Peak	199	357
3	5350.00	46.62	54.00	-7.38	40.41	6.21	Average	199	357
4	5350.00	59.66	74.00	-14.34	53.45	6.21	Peak	199	357
5	10480.00	58.26	68.20	-9.94	42.90	15.36	Peak	237	335
6	15720.00	45.45	54.00	-8.55	29.59	15.86	Average	237	335
7	15720.00	57.92	74.00	-16.08	42.06	15.86	Peak	237	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).

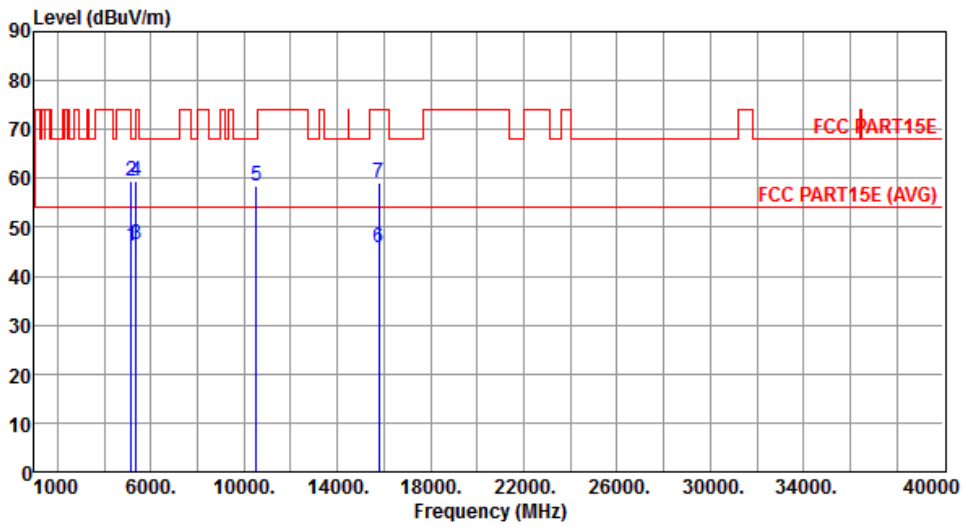
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.80	54.00	-8.20	39.93	5.87	Average	336	259
2	5150.00	58.74	74.00	-15.26	52.87	5.87	Peak	336	259
3	5350.00	46.46	54.00	-7.54	40.25	6.21	Average	336	259
4	5350.00	59.67	74.00	-14.33	53.46	6.21	Peak	336	259
5	10480.00	61.43	68.20	-6.77	46.07	15.36	Peak	178	181
6	15720.00	45.10	54.00	-8.90	29.24	15.86	Average	160	197
7	15720.00	57.96	74.00	-16.04	42.10	15.86	Peak	160	197

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

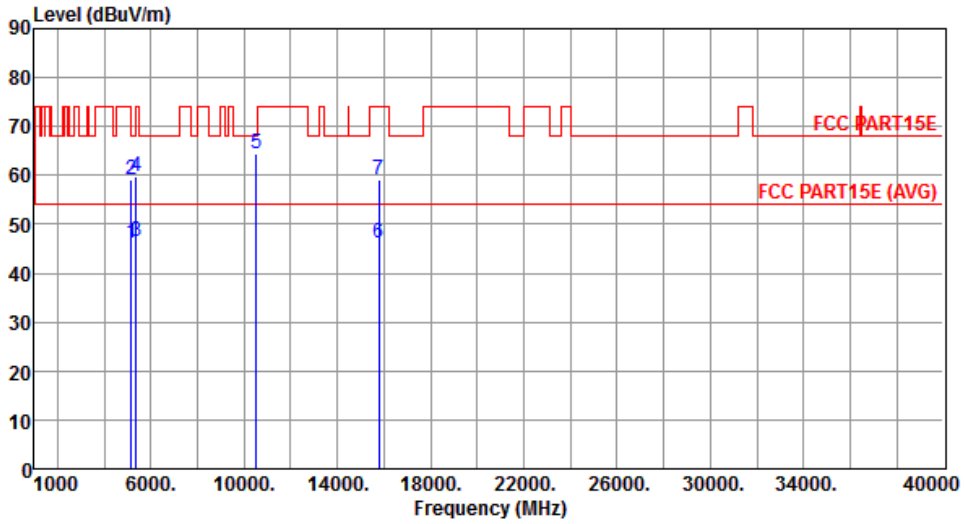
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.08	54.00	-7.92	40.21	5.87	Average	180	299
2	5150.00	59.28	74.00	-14.72	53.41	5.87	Peak	180	299
3	5350.00	46.43	54.00	-7.57	40.22	6.21	Average	180	299
4	5350.00	59.43	74.00	-14.57	53.22	6.21	Peak	180	299
5	10520.00	58.52	68.20	-9.68	43.11	15.41	Peak	188	153
6	15780.00	45.90	54.00	-8.10	30.12	15.78	Average	188	142
7	15780.00	59.21	74.00	-14.79	43.43	15.78	Peak	188	142

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

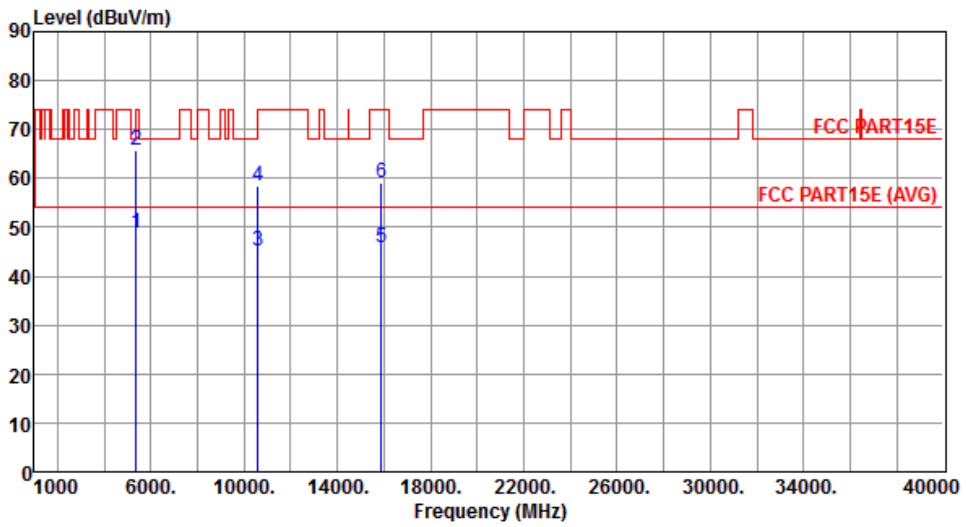
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	46.29	54.00	-7.71	40.42	5.87	Average	322	262
2	5150.00	59.03	74.00	-14.97	53.16	5.87	Peak	322	262
3	5350.00	46.59	54.00	-7.41	40.38	6.21	Average	322	262
4	5350.00	59.76	74.00	-14.24	53.55	6.21	Peak	322	262
5	10520.00	64.51	68.20	-3.69	49.10	15.41	Peak	185	192
6	15780.00	46.02	54.00	-7.98	30.24	15.78	Average	153	212
7	15780.00	59.12	74.00	-14.88	43.34	15.78	Peak	153	212

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

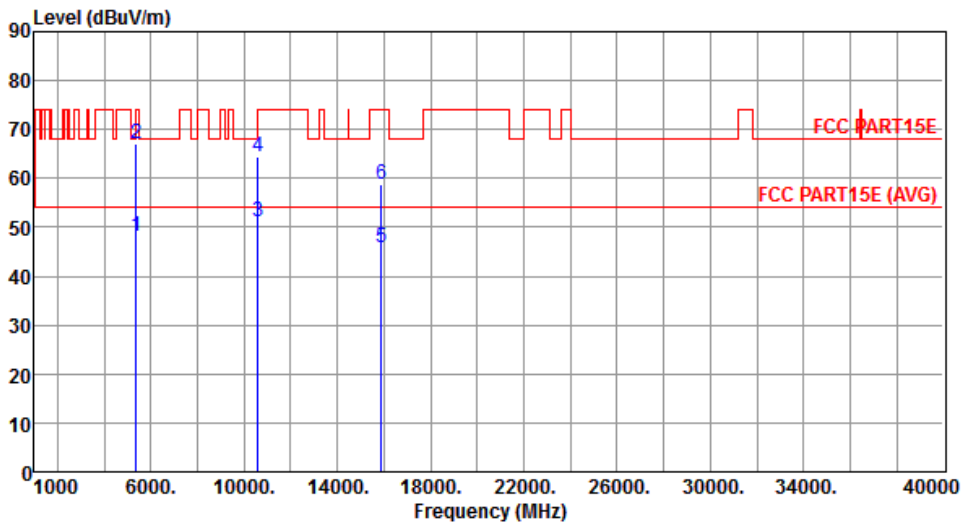
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.92	54.00	-5.08	42.71	6.21	Average	181	300
2	5350.00	65.80	74.00	-8.20	59.59	6.21	Peak	181	300
3	10600.00	45.11	54.00	-8.89	29.65	15.46	Average	181	155
4	10600.00	58.37	74.00	-15.63	42.91	15.46	Peak	181	155
5	15900.00	45.76	54.00	-8.24	30.12	15.64	Average	175	136
6	15900.00	59.02	74.00	-14.98	43.38	15.64	Peak	175	136

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

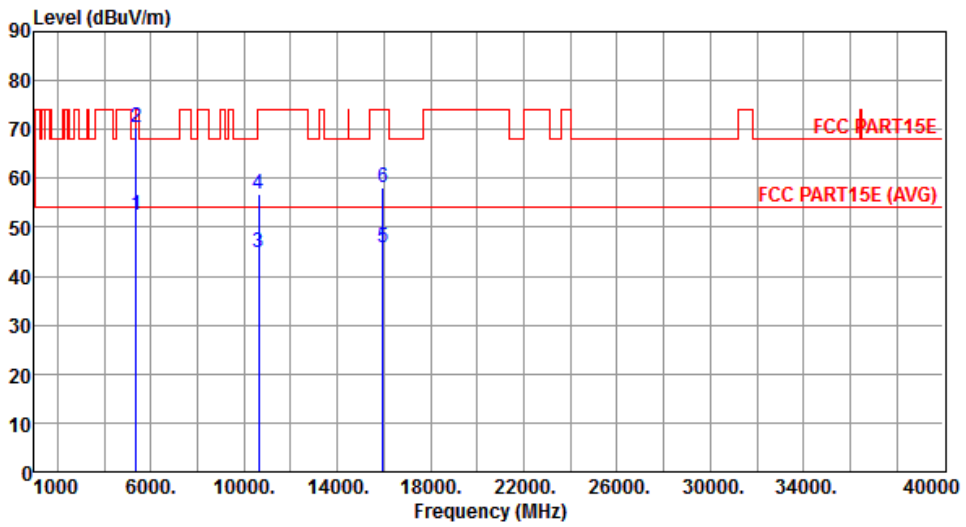
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.24	54.00	-5.76	42.03	6.21	Average	325	263
2	5350.00	66.97	74.00	-7.03	60.76	6.21	Peak	325	263
3	10600.00	51.04	54.00	-2.96	35.58	15.46	Average	187	194
4	10600.00	64.39	74.00	-9.61	48.93	15.46	Peak	187	194
5	15900.00	45.97	54.00	-8.03	30.33	15.64	Average	156	213
6	15900.00	58.85	74.00	-15.15	43.21	15.64	Peak	156	213

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

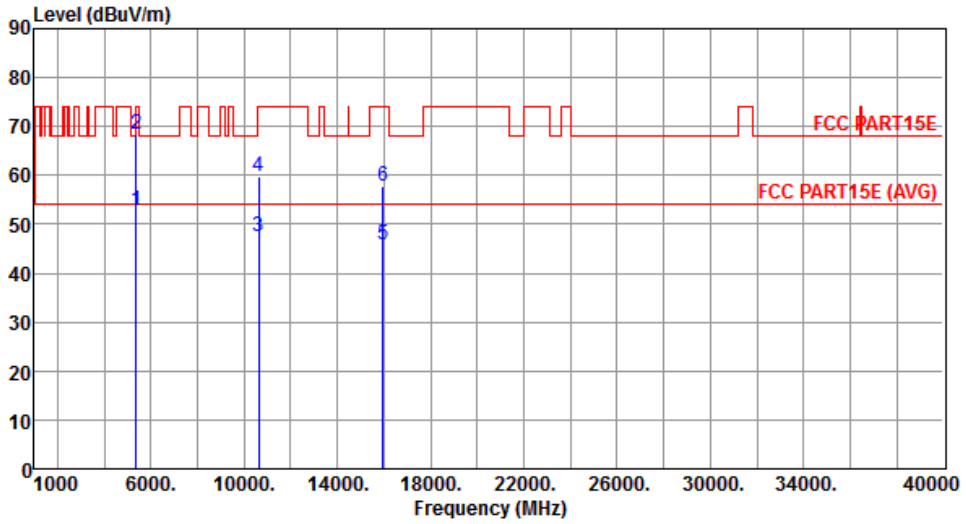
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.34	54.00	-1.66	46.13	6.21	Average	162	300
2	5350.00	70.55	74.00	-3.45	64.34	6.21	Peak	162	300
3	10640.00	44.70	54.00	-9.30	29.21	15.49	Average	156	213
4	10640.00	56.70	74.00	-17.30	41.21	15.49	Peak	156	213
5	15960.00	45.69	54.00	-8.31	30.12	15.57	Average	156	177
6	15960.00	58.01	74.00	-15.99	42.44	15.57	Peak	156	177

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

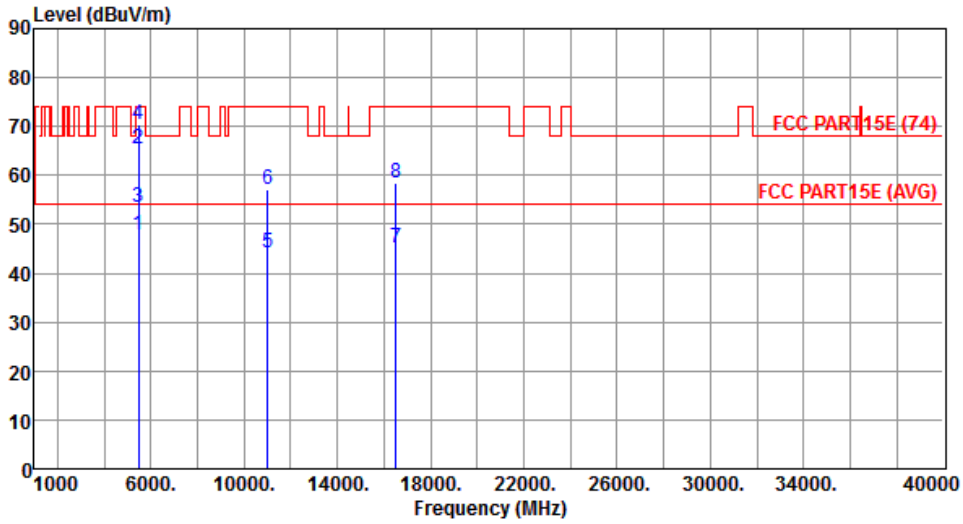
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.91	54.00	-1.09	46.70	6.21	Average	325	260
2	5350.00	68.34	74.00	-5.66	62.13	6.21	Peak	325	260
3	10640.00	47.60	54.00	-6.40	32.11	15.49	Average	188	163
4	10640.00	59.70	74.00	-14.30	44.21	15.49	Peak	188	163
5	15960.00	45.73	54.00	-8.27	30.16	15.57	Average	175	178
6	15960.00	57.78	74.00	-16.22	42.21	15.57	Peak	175	178

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

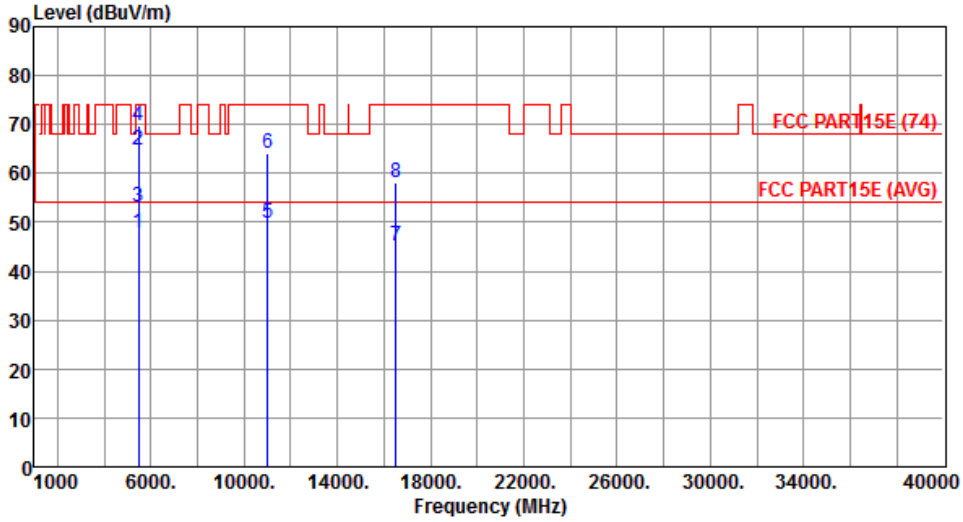
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.76	54.00	-6.24	41.40	6.36	Average	155	300
2	5460.00	65.47	74.00	-8.53	59.11	6.36	Peak	155	300
3	5470.00	53.42	54.00	-0.58	47.05	6.37	Average	155	300
4	5470.00	70.36	74.00	-3.64	63.99	6.37	Peak	155	300
5	11000.00	44.27	54.00	-9.73	28.53	15.74	Average	162	216
6	11000.00	57.09	74.00	-16.91	41.35	15.74	Peak	162	216
7	16500.00	45.16	54.00	-8.84	29.13	16.03	Average	182	132
8	16500.00	58.34	74.00	-15.66	42.31	16.03	Peak	182	132

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

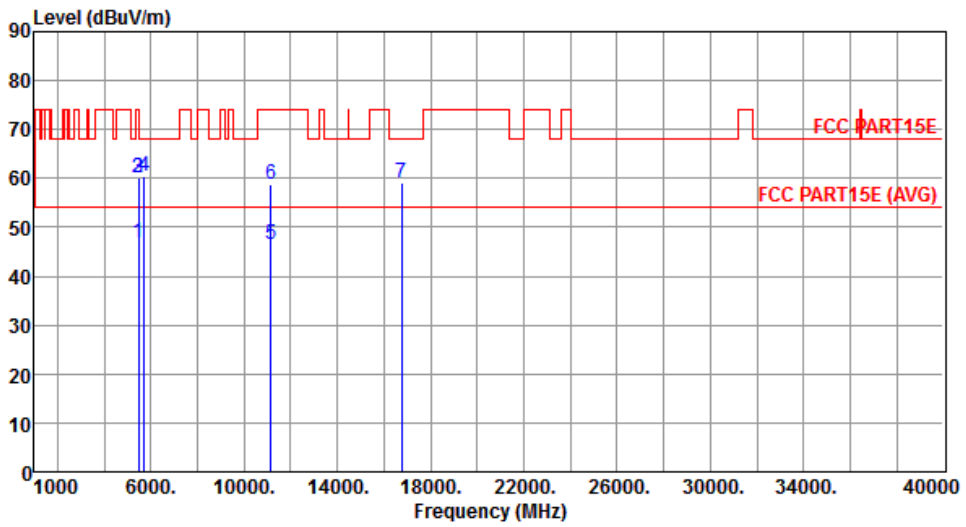
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.72	54.00	-6.28	41.36	6.36	Average	321	261
2	5460.00	64.72	74.00	-9.28	58.36	6.36	Peak	321	261
3	5470.00	53.04	54.00	-0.96	46.67	6.37	Average	321	261
4	5470.00	69.72	74.00	-4.28	63.35	6.37	Peak	321	261
5	11000.00	49.97	54.00	-4.03	34.23	15.74	Average	159	180
6	11000.00	64.05	74.00	-9.95	48.31	15.74	Peak	159	180
7	16500.00	45.09	54.00	-8.91	29.06	16.03	Average	159	143
8	16500.00	58.19	74.00	-15.81	42.16	16.03	Peak	159	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).

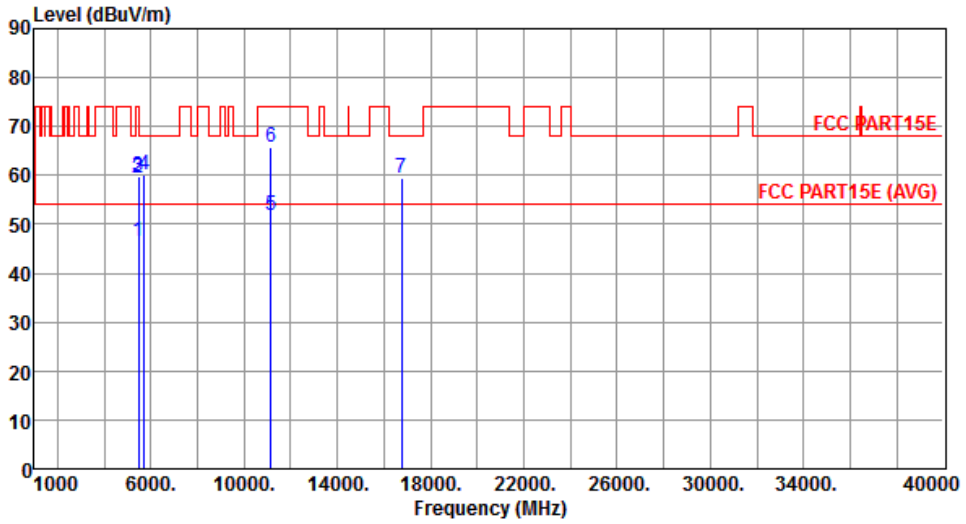
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.71	54.00	-7.29	40.35	6.36	Average	197	308
2	5460.00	60.03	74.00	-13.97	53.67	6.36	Peak	197	308
3	5470.00	60.19	68.20	-8.01	53.82	6.37	Peak	197	308
4	5725.00	60.52	68.20	-7.68	53.69	6.83	Peak	197	308
5	11160.00	46.51	54.00	-7.49	30.68	15.83	Average	159	243
6	11160.00	58.71	74.00	-15.29	42.88	15.83	Peak	159	243
7	16740.00	59.03	68.20	-9.17	42.23	16.80	Peak	182	213

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

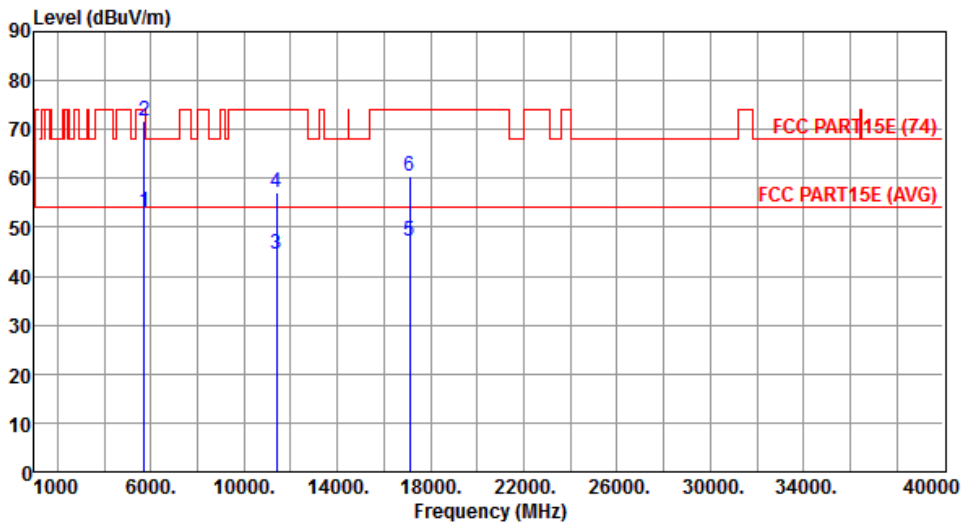
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.48	54.00	-7.52	40.12	6.36	Average	254	260
2	5460.00	59.57	74.00	-14.43	53.21	6.36	Peak	254	260
3	5470.00	59.90	68.20	-8.30	53.53	6.37	Peak	254	260
4	5725.00	60.27	68.20	-7.93	53.44	6.83	Peak	254	260
5	11160.00	51.82	54.00	-2.18	35.99	15.83	Average	159	174
6	11160.00	65.67	74.00	-8.33	49.84	15.83	Peak	159	174
7	16740.00	59.49	68.20	-8.71	42.69	16.80	Peak	159	135

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

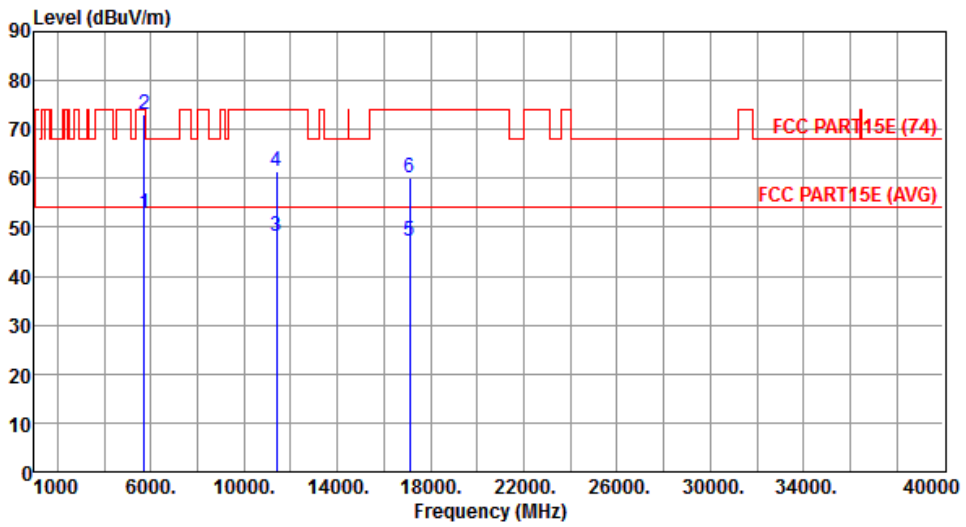
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.99	54.00	-1.01	46.16	6.83	Average	196	311
2	5725.00	71.61	74.00	-2.39	64.78	6.83	Peak	196	311
3	11400.00	44.49	54.00	-9.51	28.53	15.96	Average	122	138
4	11400.00	57.27	74.00	-16.73	41.31	15.96	Peak	122	138
5	17100.00	47.12	54.00	-6.88	29.16	17.96	Average	163	212
6	17100.00	60.31	74.00	-13.69	42.35	17.96	Peak	163	212

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

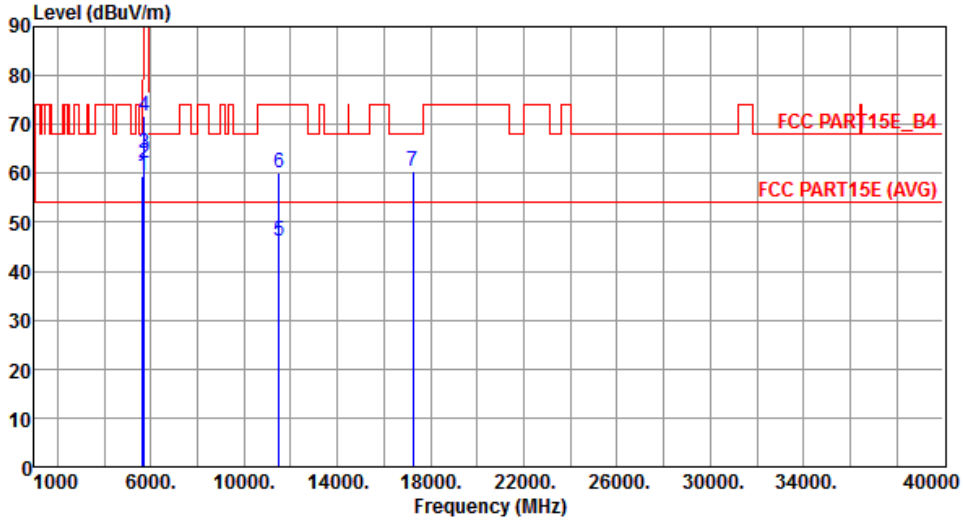
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.79	54.00	-1.21	45.96	6.83	Average	344	252
2	5725.00	72.96	74.00	-1.04	66.13	6.83	Peak	344	252
3	11400.00	48.08	54.00	-5.92	32.12	15.96	Average	160	178
4	11400.00	61.27	74.00	-12.73	45.31	15.96	Peak	160	178
5	17100.00	47.27	54.00	-6.73	29.31	17.96	Average	188	196
6	17100.00	60.21	74.00	-13.79	42.25	17.96	Peak	188	196

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

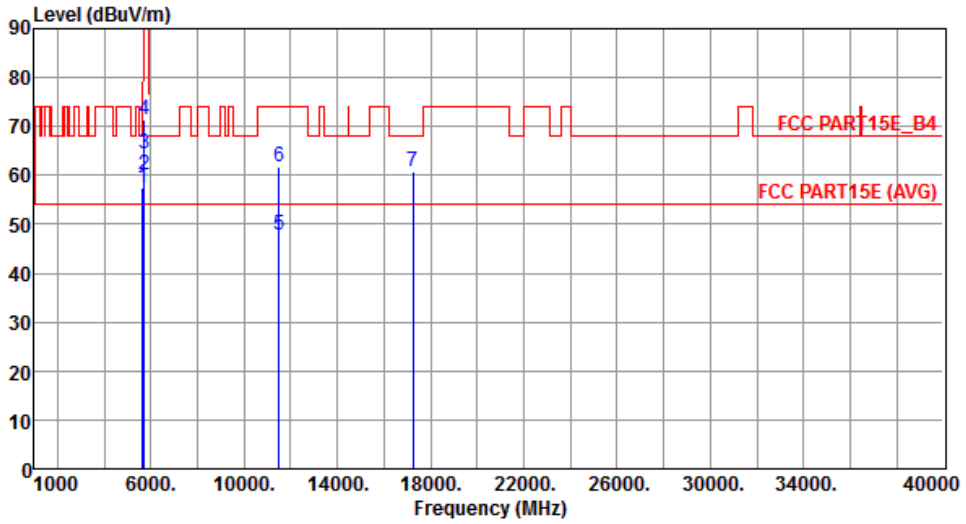
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.33	68.20	-8.87	52.70	6.63	Peak	229	355
2	5700.00	62.08	105.20	-43.12	55.31	6.77	Peak	229	355
3	5720.00	64.20	110.80	-46.60	57.38	6.82	Peak	229	355
4	5725.00	71.61	122.20	-50.59	64.78	6.83	Peak	229	355
5	11490.00	46.13	54.00	-7.87	30.12	16.01	Average	171	244
6	11490.00	60.00	74.00	-14.00	43.99	16.01	Peak	171	244
7	17235.00	60.55	68.20	-7.65	42.12	18.43	Peak	168	249

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

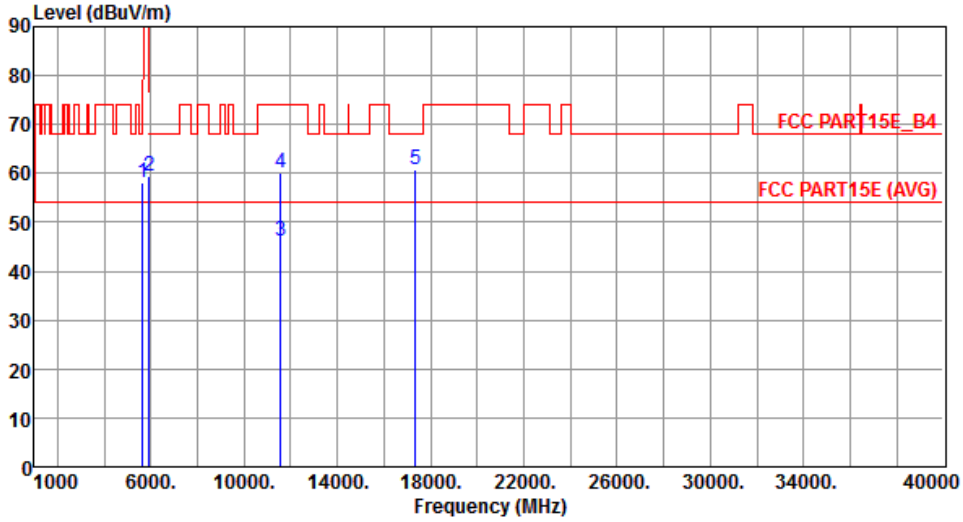
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.35	68.20	-10.85	50.72	6.63	Peak	266	261
2	5700.00	60.19	105.20	-45.01	53.42	6.77	Peak	266	261
3	5720.00	64.30	110.80	-46.50	57.48	6.82	Peak	266	261
4	5725.00	71.55	122.20	-50.65	64.72	6.83	Peak	266	261
5	11490.00	47.92	54.00	-6.08	31.91	16.01	Average	175	178
6	11490.00	61.69	74.00	-12.31	45.68	16.01	Peak	175	178
7	17235.00	60.82	68.20	-7.38	42.39	18.43	Peak	178	196

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

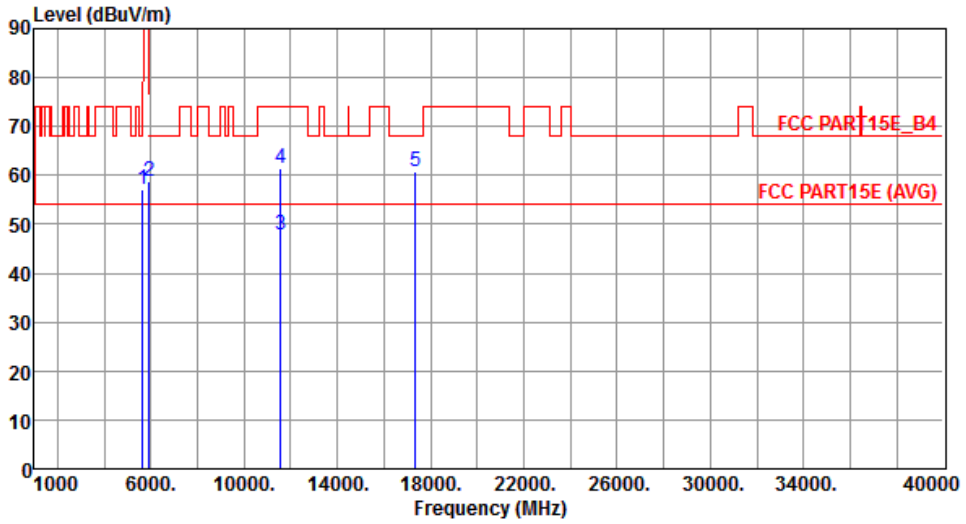
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.14	68.20	-10.06	51.51	6.63	Peak	228	355
2	5925.00	59.59	68.20	-8.61	52.25	7.34	Peak	228	355
3	11570.00	46.21	54.00	-7.79	30.32	15.89	Average	172	246
4	11570.00	60.15	74.00	-13.85	44.26	15.89	Peak	172	246
5	17355.00	60.62	68.20	-7.58	41.80	18.82	Peak	163	254

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

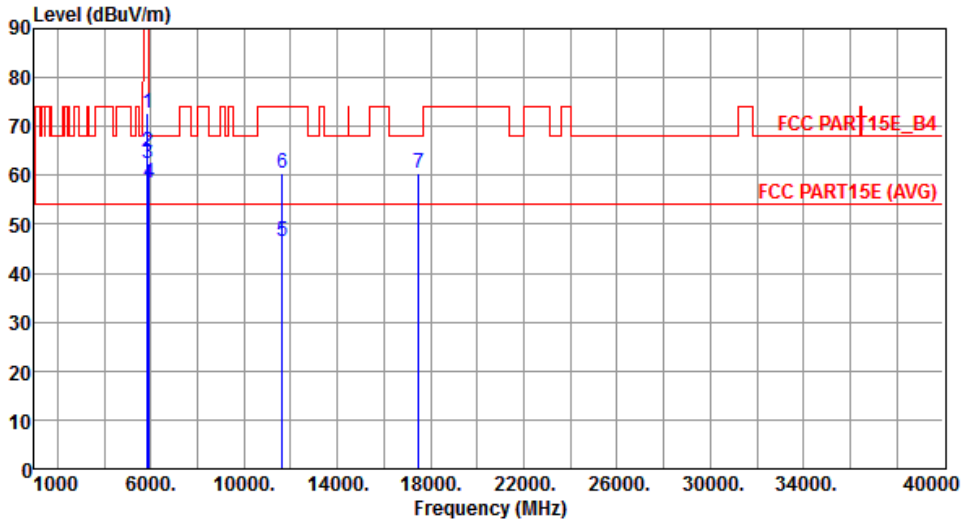
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.26	68.20	-10.94	50.63	6.63	Peak	263	258
2	5925.00	58.67	68.20	-9.53	51.33	7.34	Peak	263	258
3	11570.00	47.84	54.00	-6.16	31.95	15.89	Average	176	182
4	11570.00	61.52	74.00	-12.48	45.63	15.89	Peak	176	182
5	17355.00	60.92	68.20	-7.28	42.10	18.82	Peak	181	204

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

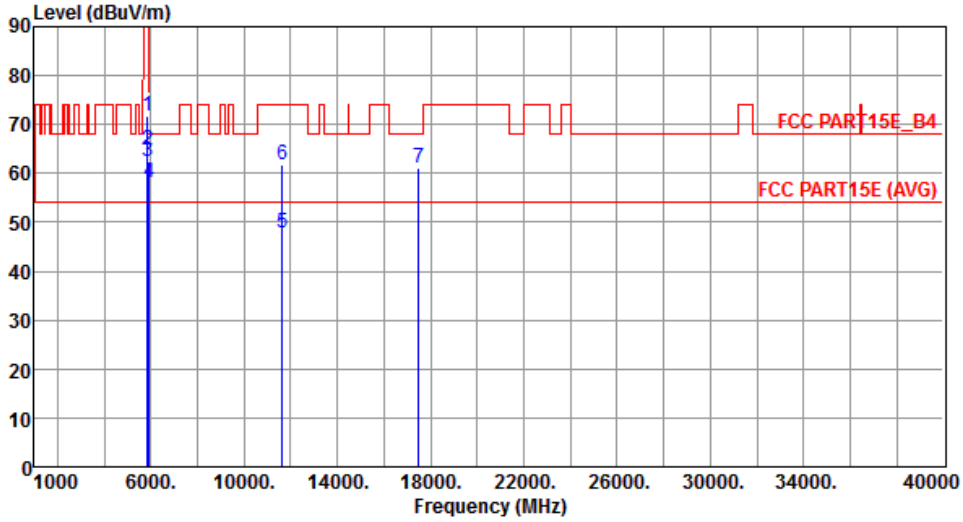
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	72.88	122.20	-49.32	65.72	7.16	Peak	230	355
2	5855.00	64.75	110.80	-46.05	57.57	7.18	Peak	230	355
3	5875.00	62.53	105.20	-42.67	55.30	7.23	Peak	230	355
4	5925.00	58.58	68.20	-9.62	51.24	7.34	Peak	230	355
5	11650.00	46.39	54.00	-7.61	30.65	15.74	Average	175	241
6	11650.00	60.34	74.00	-13.66	44.60	15.74	Peak	175	241
7	17475.00	60.48	68.20	-7.72	41.25	19.23	Peak	166	259

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

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

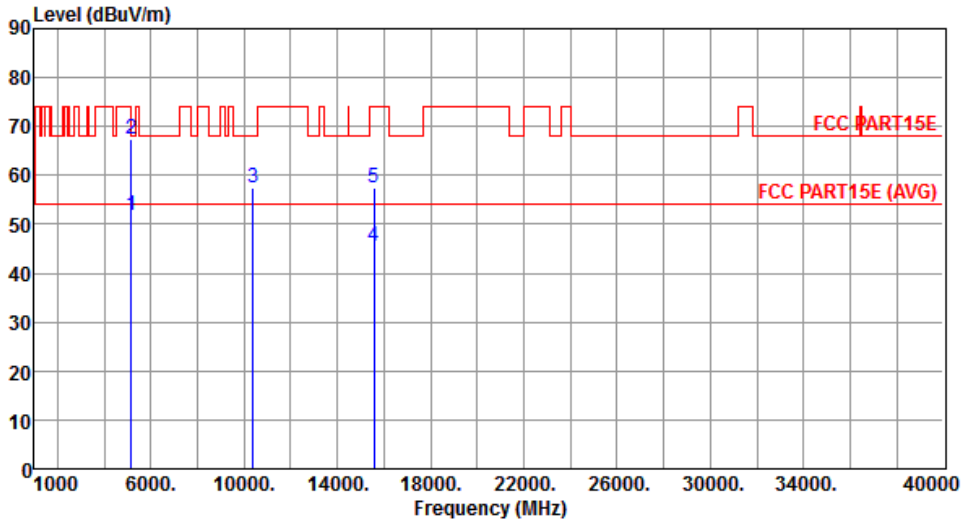


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	71.80	122.20	-50.40	64.64	7.16	Peak	265	258
2	5855.00	64.92	110.80	-45.88	57.74	7.18	Peak	265	258
3	5875.00	62.52	105.20	-42.68	55.29	7.23	Peak	265	258
4	5925.00	58.21	68.20	-9.99	50.87	7.34	Peak	265	258
5	11650.00	47.95	54.00	-6.05	32.21	15.74	Average	181	165
6	11650.00	61.63	74.00	-12.37	45.89	15.74	Peak	181	165
7	17475.00	61.02	68.20	-7.18	41.79	19.23	Peak	188	209

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

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

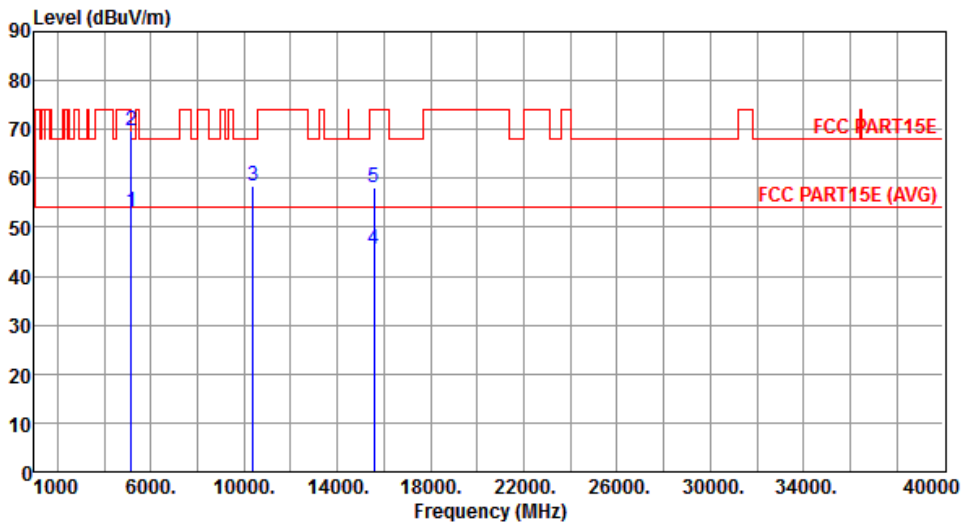
Modulation	VHT40	**Test Freq. (MHz)**	5190
Polarization	Horizontal		



	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	51.95	54.00	-2.05	46.08	5.87	Average	208	0
2	5150.00	67.34	74.00	-6.66	61.47	5.87	Peak	208	0
3	10380.00	57.49	68.20	-10.71	42.24	15.25	Peak	155	222
4	15570.00	45.60	54.00	-8.40	29.56	16.04	Average	182	138
5	15570.00	57.37	74.00	-16.63	41.33	16.04	Peak	182	138

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

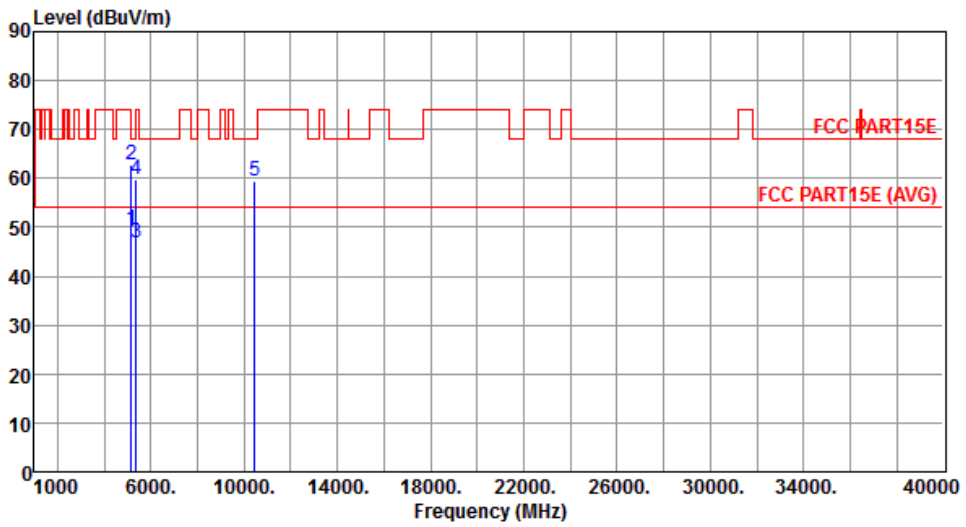
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.97	54.00	-1.03	47.10	5.87	Average	331	262
2	5150.00	69.62	74.00	-4.38	63.75	5.87	Peak	331	262
3	10380.00	58.60	68.20	-9.60	43.35	15.25	Peak	156	172
4	15570.00	45.57	54.00	-8.43	29.53	16.04	Average	166	196
5	15570.00	58.25	74.00	-15.75	42.21	16.04	Peak	166	196

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

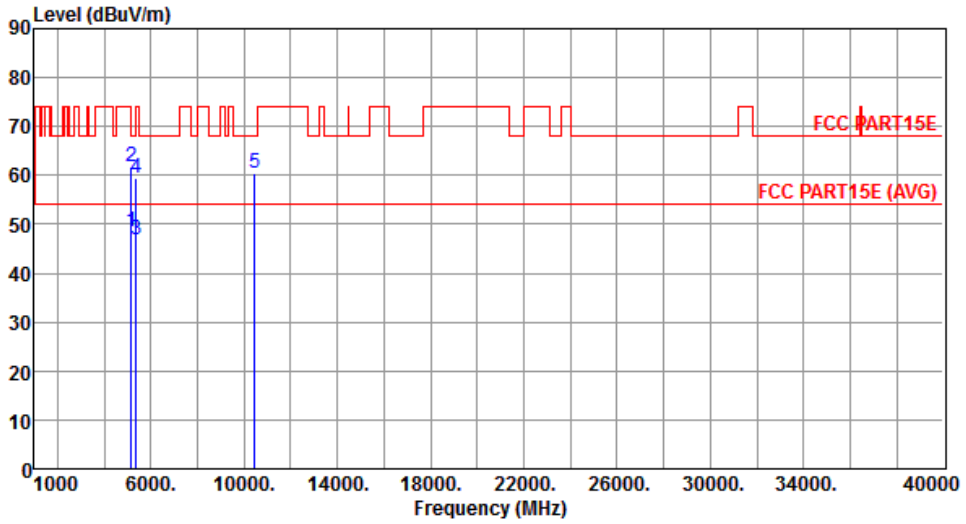
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	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	49.45	54.00	-4.55	43.58	5.87	Average	208	3
2	5150.00	62.65	74.00	-11.35	56.78	5.87	Peak	208	3
3	5350.00	46.75	54.00	-7.25	40.54	6.21	Average	208	3
4	5350.00	59.77	74.00	-14.23	53.56	6.21	Peak	208	3
5	10460.00	59.59	68.20	-8.61	44.25	15.34	Peak	166	168

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

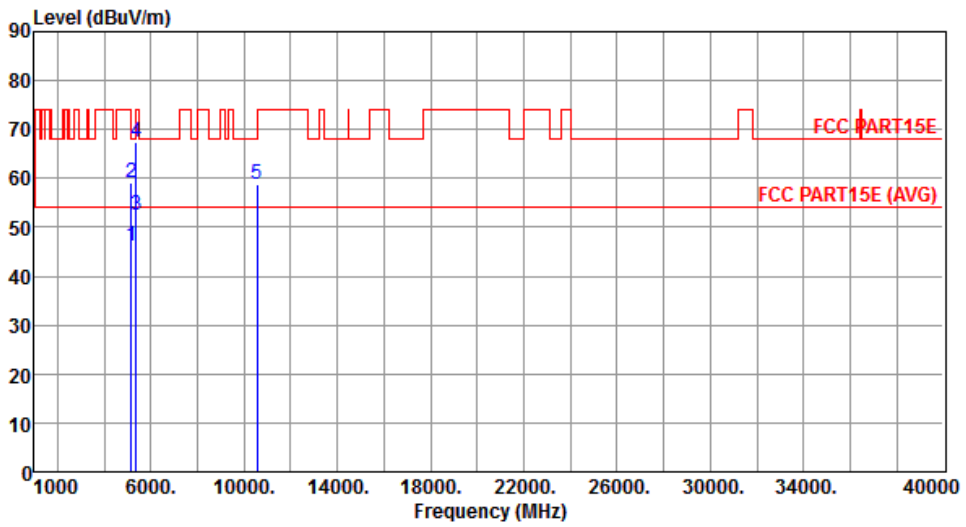
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.42	54.00	-5.58	42.55	5.87	Average	331	264
2	5150.00	61.73	74.00	-12.27	55.86	5.87	Peak	331	264
3	5350.00	46.89	54.00	-7.11	40.68	6.21	Average	331	264
4	5350.00	59.50	74.00	-14.50	53.29	6.21	Peak	331	264
5	10460.00	60.46	68.20	-7.74	45.12	15.34	Peak	188	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).

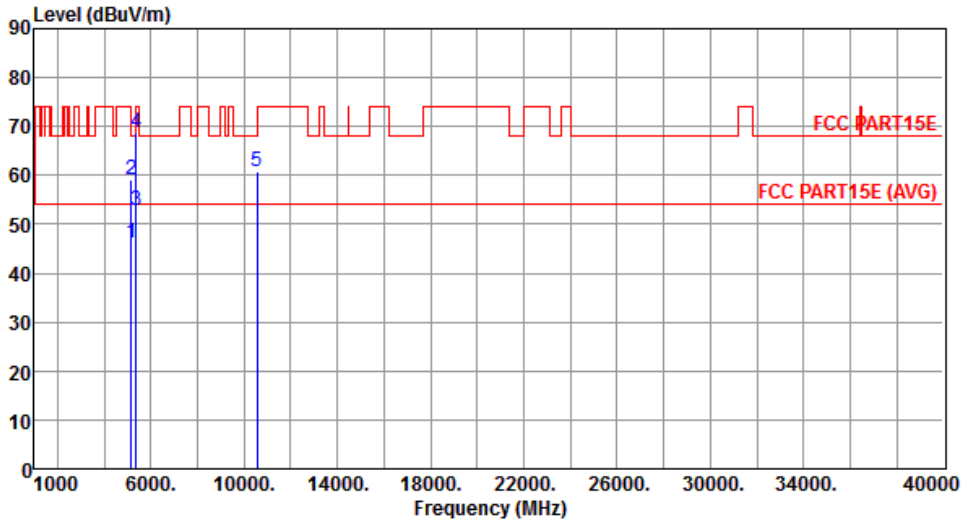
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.07	54.00	-7.93	40.20	5.87	Average	199	307
2	5150.00	58.95	74.00	-15.05	53.08	5.87	Peak	199	307
3	5350.00	52.58	54.00	-1.42	46.37	6.21	Average	199	307
4	5350.00	67.47	74.00	-6.53	61.26	6.21	Peak	199	307
5	10540.00	58.77	68.20	-9.43	43.35	15.42	Peak	188	222

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

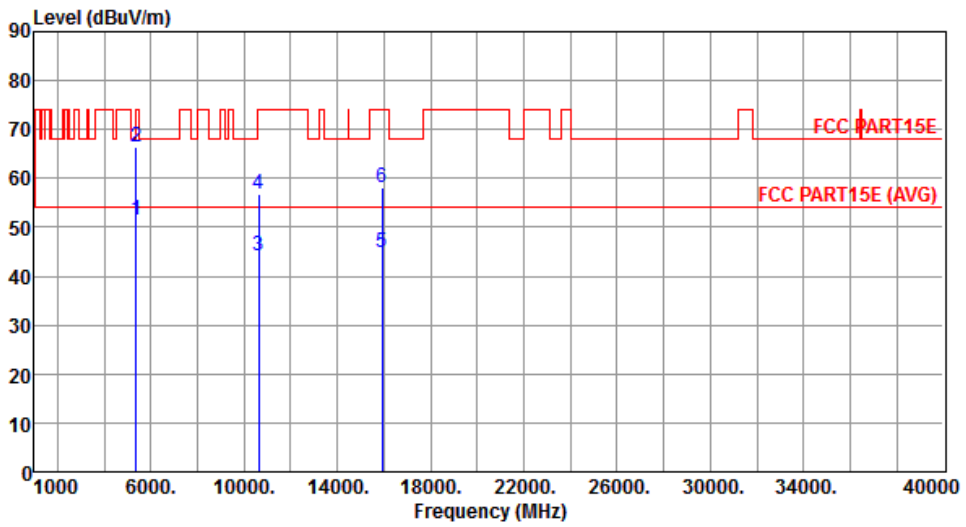
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.11	54.00	-7.89	40.24	5.87	Average	319	262
2	5150.00	59.12	74.00	-14.88	53.25	5.87	Peak	319	262
3	5350.00	52.70	54.00	-1.30	46.49	6.21	Average	319	262
4	5350.00	68.75	74.00	-5.25	62.54	6.21	Peak	319	262
5	10540.00	60.63	68.20	-7.57	45.21	15.42	Peak	188	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).

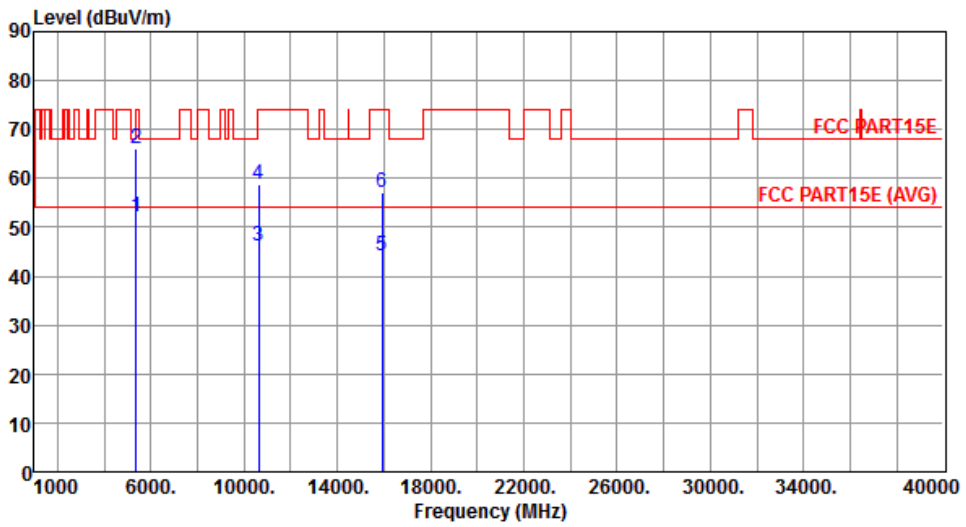
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	51.59	54.00	-2.41	45.38	6.21	Average	165	312
2	5350.00	66.29	74.00	-7.71	60.08	6.21	Peak	165	312
3	10620.00	44.00	54.00	-10.00	28.52	15.48	Average	155	116
4	10620.00	56.80	74.00	-17.20	41.32	15.48	Peak	155	116
5	15930.00	44.71	54.00	-9.29	29.11	15.60	Average	153	142
6	15930.00	58.01	74.00	-15.99	42.41	15.60	Peak	153	142

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

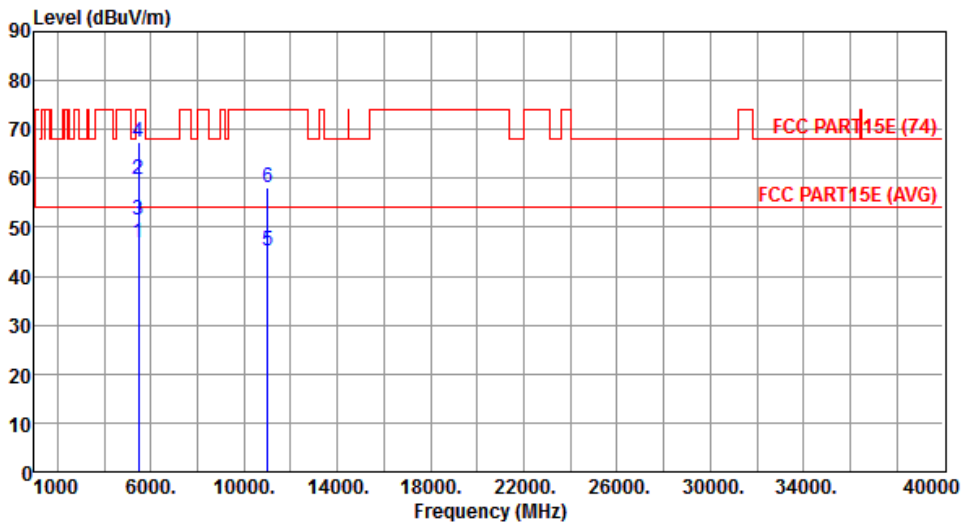
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	51.98	54.00	-2.02	45.77	6.21	Average	323	260
2	5350.00	66.08	74.00	-7.92	59.87	6.21	Peak	323	260
3	10620.00	46.00	54.00	-8.00	30.52	15.48	Average	153	148
4	10620.00	58.63	74.00	-15.37	43.15	15.48	Peak	153	148
5	15930.00	44.13	54.00	-9.87	28.53	15.60	Average	122	153
6	15930.00	57.15	74.00	-16.85	41.55	15.60	Peak	122	153

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

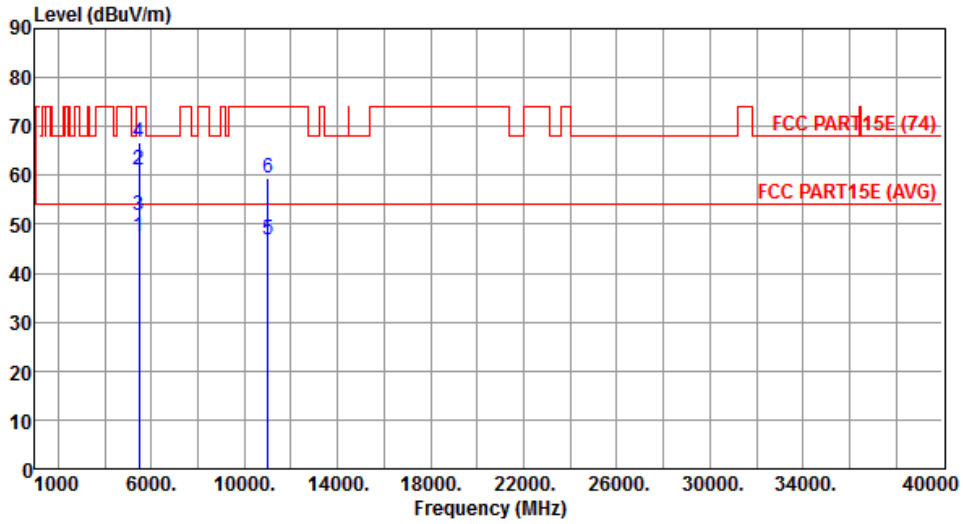
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.98	54.00	-7.02	40.62	6.36	Average	155	301
2	5460.00	59.80	74.00	-14.20	53.44	6.36	Peak	155	301
3	5470.00	51.54	54.00	-2.46	45.17	6.37	Average	155	301
4	5470.00	67.34	74.00	-6.66	60.97	6.37	Peak	155	301
5	11020.00	45.28	54.00	-8.72	29.53	15.75	Average	164	218
6	11020.00	58.06	74.00	-15.94	42.31	15.75	Peak	164	218

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

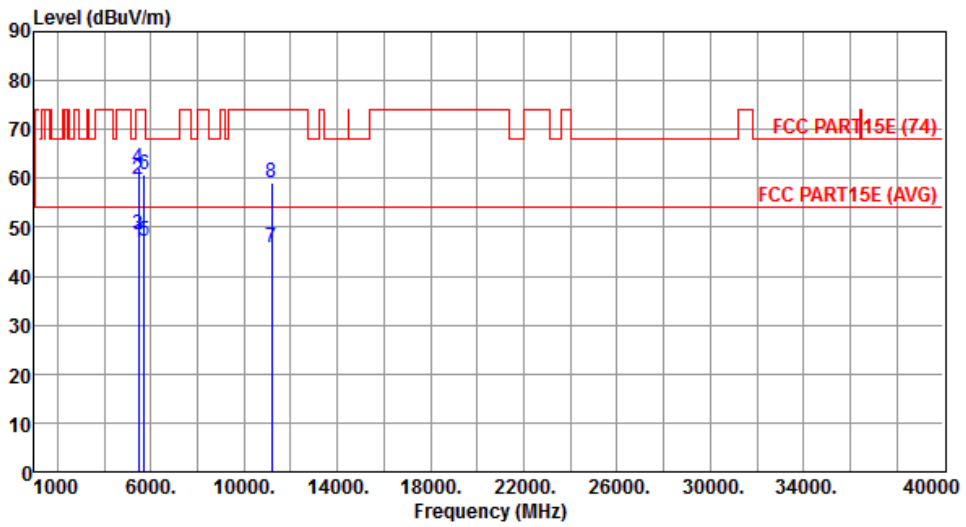
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.34	54.00	-6.66	40.98	6.36	Average	324	253
2	5460.00	61.14	74.00	-12.86	54.78	6.36	Peak	324	253
3	5470.00	51.79	54.00	-2.21	45.42	6.37	Average	324	253
4	5470.00	66.63	74.00	-7.37	60.26	6.37	Peak	324	253
5	11020.00	46.98	54.00	-7.02	31.23	15.75	Average	168	147
6	11020.00	59.36	74.00	-14.64	43.61	15.75	Peak	168	147

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

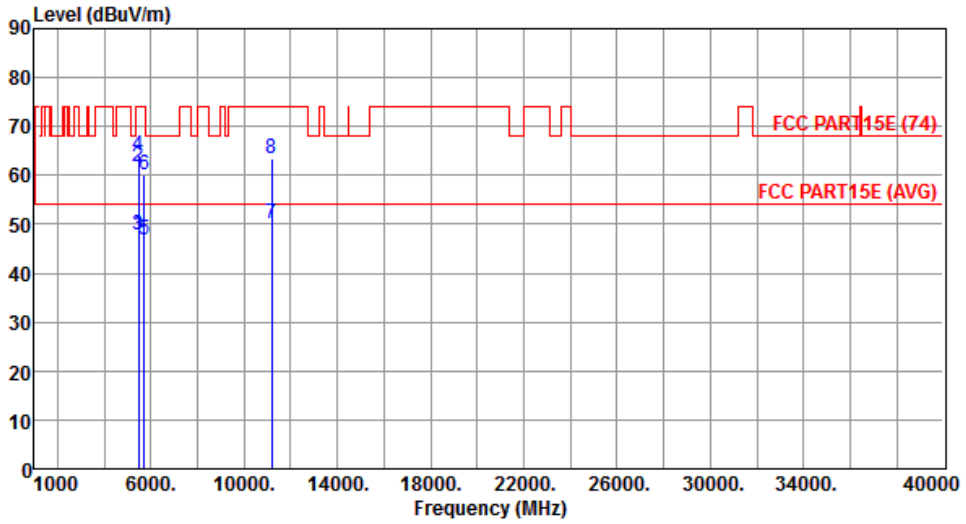
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		



	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	46.97	54.00	-7.03	40.61	6.36	Average	203	306
2	5460.00	59.91	74.00	-14.09	53.55	6.36	Peak	203	306
3	5470.00	48.61	54.00	-5.39	42.24	6.37	Average	203	306
4	5470.00	62.05	74.00	-11.95	55.68	6.37	Peak	203	306
5	5725.00	47.22	54.00	-6.78	40.39	6.83	Average	203	306
6	5725.00	60.86	74.00	-13.14	54.03	6.83	Peak	203	306
7	11180.00	45.96	54.00	-8.04	30.12	15.84	Average	182	216
8	11180.00	59.15	74.00	-14.85	43.31	15.84	Peak	182	216

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

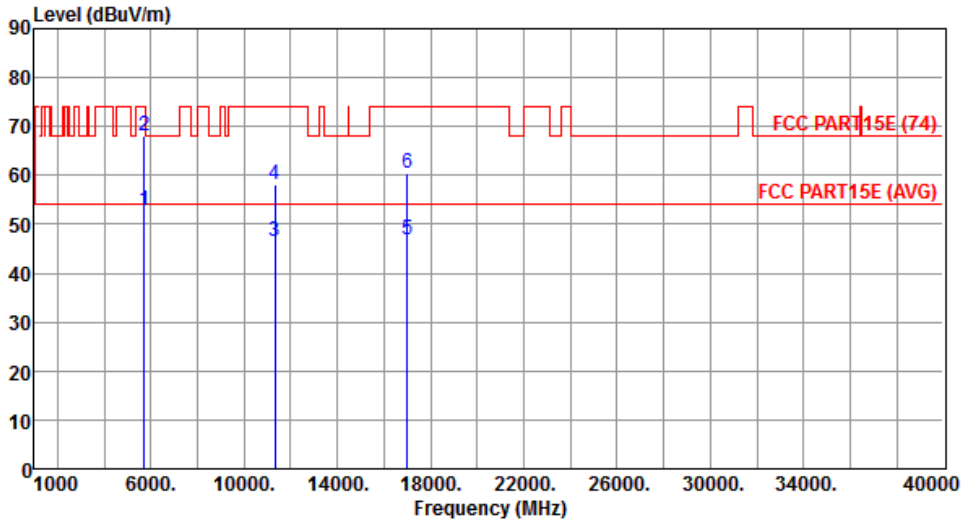
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		



	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	47.98	54.00	-6.02	41.62	6.36	Average	335	247
2	5460.00	61.67	74.00	-12.33	55.31	6.36	Peak	335	247
3	5470.00	47.68	54.00	-6.32	41.31	6.37	Average	335	247
4	5470.00	63.99	74.00	-10.01	57.62	6.37	Peak	335	247
5	5725.00	46.96	54.00	-7.04	40.13	6.83	Average	335	247
6	5725.00	60.12	74.00	-13.88	53.29	6.83	Peak	335	247
7	11180.00	50.17	54.00	-3.83	34.33	15.84	Average	188	173
8	11180.00	63.29	74.00	-10.71	47.45	15.84	Peak	188	173

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

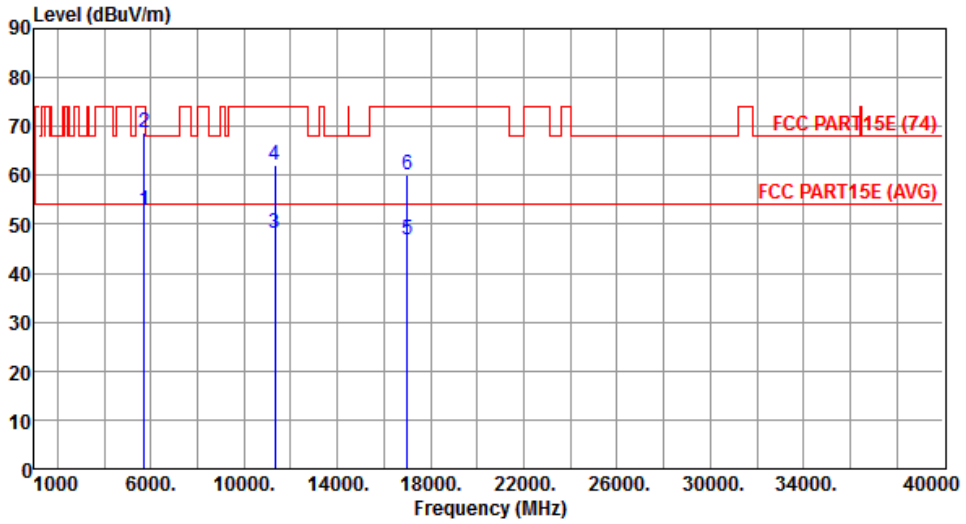
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.71	54.00	-1.29	45.88	6.83	Average	196	311
2	5725.00	68.17	74.00	-5.83	61.34	6.83	Peak	196	311
3	11340.00	46.46	54.00	-7.54	30.53	15.93	Average	188	163
4	11340.00	58.21	74.00	-15.79	42.28	15.93	Peak	188	163
5	17010.00	46.76	54.00	-7.24	29.11	17.65	Average	173	143
6	17010.00	60.53	74.00	-13.47	42.88	17.65	Peak	173	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).

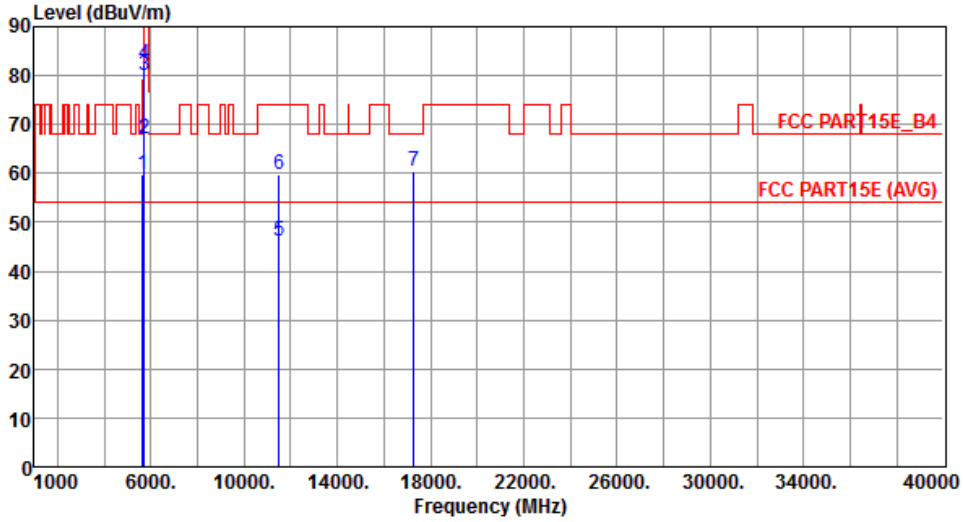
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.96	54.00	-1.04	46.13	6.83	Average	311	258
2	5725.00	68.87	74.00	-5.13	62.04	6.83	Peak	311	258
3	11340.00	48.28	54.00	-5.72	32.35	15.93	Average	175	175
4	11340.00	62.24	74.00	-11.76	46.31	15.93	Peak	175	175
5	17010.00	46.70	54.00	-7.30	29.05	17.65	Average	212	245
6	17010.00	60.08	74.00	-13.92	42.43	17.65	Peak	212	245

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

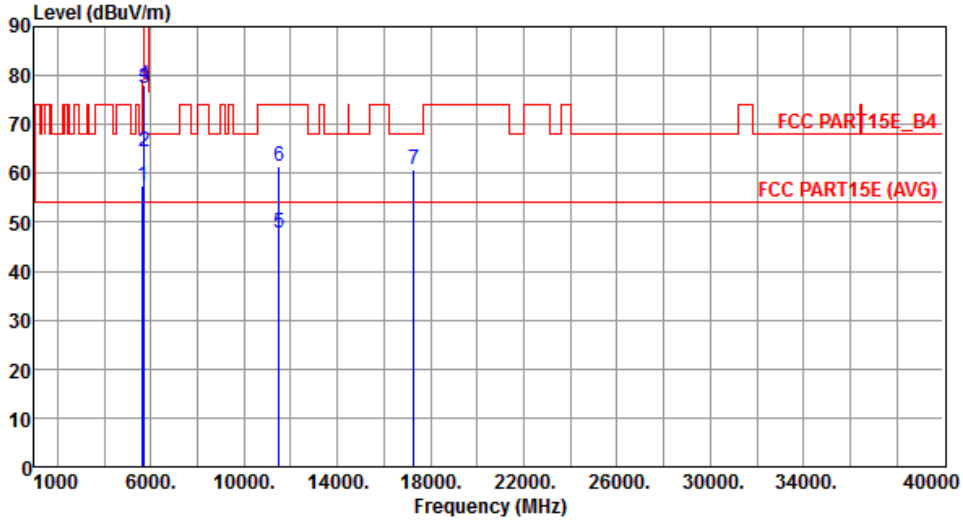
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.86	68.20	-8.34	53.23	6.63	Peak	161	299
2	5700.00	67.01	105.20	-38.19	60.24	6.77	Peak	161	299
3	5720.00	80.11	110.80	-30.69	73.29	6.82	Peak	161	299
4	5725.00	82.31	122.20	-39.89	75.48	6.83	Peak	161	299
5	11510.00	46.02	54.00	-7.98	30.02	16.00	Average	168	253
6	11510.00	59.92	74.00	-14.08	43.92	16.00	Peak	168	253
7	17265.00	60.44	68.20	-7.76	41.93	18.51	Peak	165	251

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

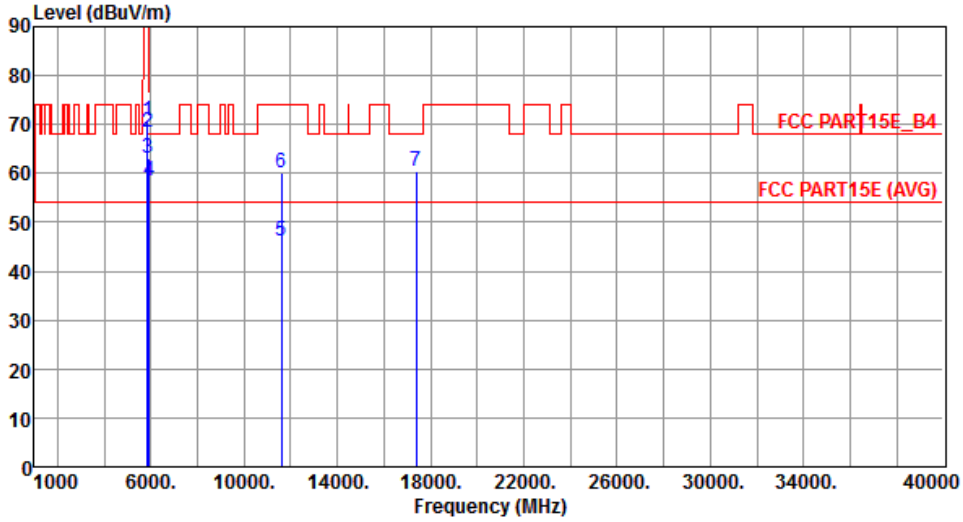
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.45	68.20	-10.75	50.82	6.63	Peak	262	258
2	5700.00	64.45	105.20	-40.75	57.68	6.77	Peak	262	258
3	5720.00	77.31	110.80	-33.49	70.49	6.82	Peak	262	258
4	5725.00	77.93	122.20	-44.27	71.10	6.83	Peak	262	258
5	11510.00	47.86	54.00	-6.14	31.86	16.00	Average	176	178
6	11510.00	61.54	74.00	-12.46	45.54	16.00	Peak	176	178
7	17265.00	60.72	68.20	-7.48	42.21	18.51	Peak	175	192

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

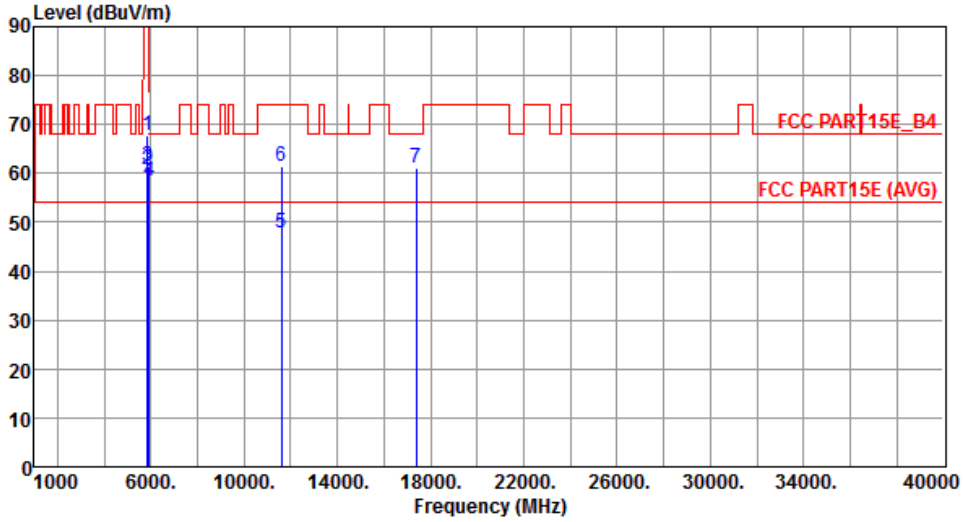
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	70.77	122.20	-51.43	63.61	7.16	Peak	163	248
2	5855.00	68.53	110.80	-42.27	61.35	7.18	Peak	163	248
3	5875.00	63.18	105.20	-42.02	55.95	7.23	Peak	163	248
4	5925.00	58.50	68.20	-9.70	51.16	7.34	Peak	165	291
5	11590.00	46.31	54.00	-7.69	30.46	15.85	Average	175	252
6	11590.00	60.25	74.00	-13.75	44.40	15.85	Peak	175	252
7	17385.00	60.36	68.20	-7.84	41.43	18.93	Peak	163	248

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

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

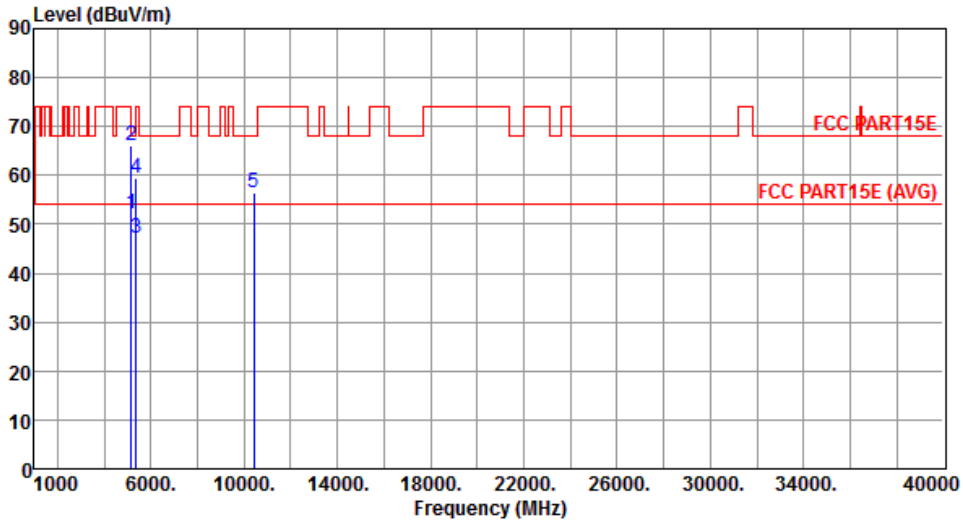


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	67.60	122.20	-54.60	60.44	7.16	Peak	266	257
2	5855.00	60.90	110.80	-49.90	53.72	7.18	Peak	266	257
3	5875.00	61.34	105.20	-43.86	54.11	7.23	Peak	266	257
4	5925.00	58.36	68.20	-9.84	51.02	7.34	Peak	266	257
5	11590.00	47.82	54.00	-6.18	31.97	15.85	Average	181	163
6	11590.00	61.54	74.00	-12.46	45.69	15.85	Peak	181	163
7	17385.00	61.22	68.20	-6.98	42.29	18.93	Peak	188	213

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

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

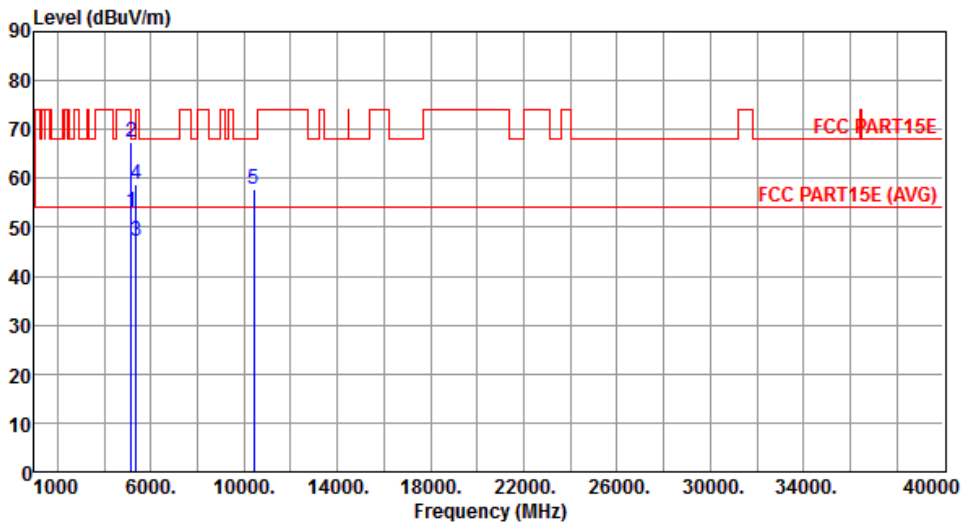
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	52.12	54.00	-1.88	46.25	5.87	Average	208	1
2	5150.00	66.12	74.00	-7.88	60.25	5.87	Peak	208	1
3	5350.00	47.11	54.00	-6.89	40.90	6.21	Average	208	1
4	5350.00	59.36	74.00	-14.64	53.15	6.21	Peak	208	1
5	10420.00	56.60	68.20	-11.60	41.30	15.30	Peak	155	168

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

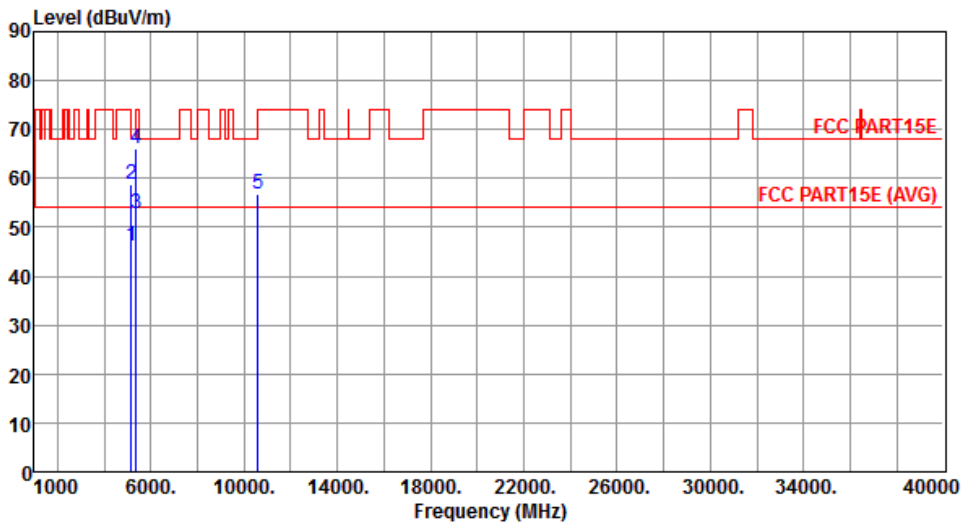
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	53.00	54.00	-1.00	47.13	5.87	Average	330	263
2	5150.00	67.42	74.00	-6.58	61.55	5.87	Peak	330	263
3	5350.00	47.05	54.00	-6.95	40.84	6.21	Average	330	263
4	5350.00	58.92	74.00	-15.08	52.71	6.21	Peak	330	263
5	10420.00	57.74	68.20	-10.46	42.44	15.30	Peak	166	172

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

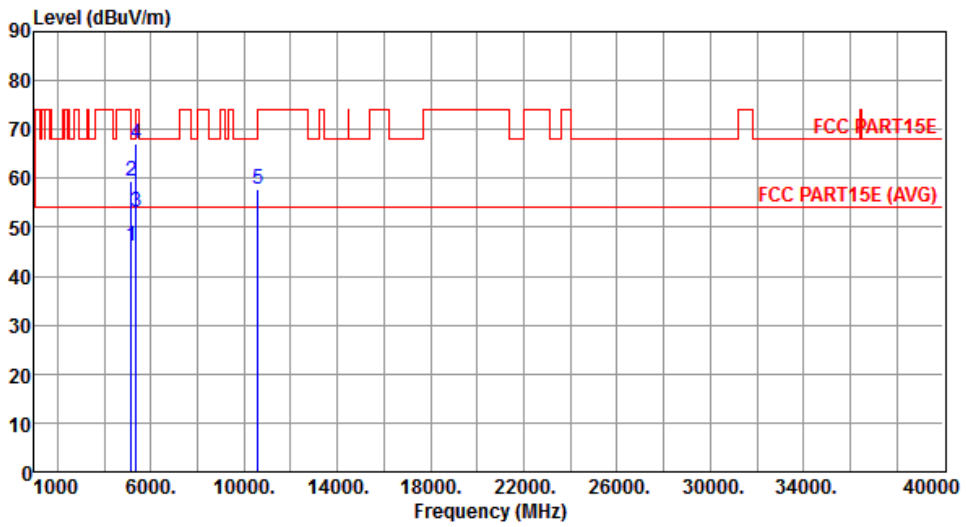
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		



	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	46.00	54.00	-8.00	40.13	5.87	Average	209	308
2	5150.00	58.68	74.00	-15.32	52.81	5.87	Peak	209	308
3	5350.00	52.74	54.00	-1.26	46.53	6.21	Average	209	308
4	5350.00	66.02	74.00	-7.98	59.81	6.21	Peak	209	308
5	10580.00	56.76	68.20	-11.44	41.32	15.44	Peak	182	136

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

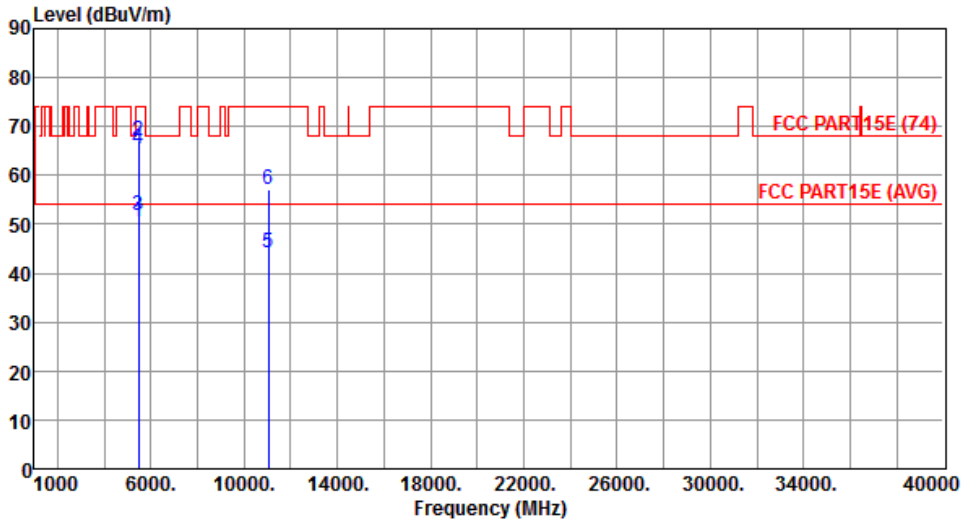
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.26	54.00	-7.74	40.39	5.87	Average	323	260
2	5150.00	59.38	74.00	-14.62	53.51	5.87	Peak	323	260
3	5350.00	53.18	54.00	-0.82	46.97	6.21	Average	323	260
4	5350.00	67.24	74.00	-6.76	61.03	6.21	Peak	323	260
5	10580.00	57.78	68.20	-10.42	42.34	15.44	Peak	177	162

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

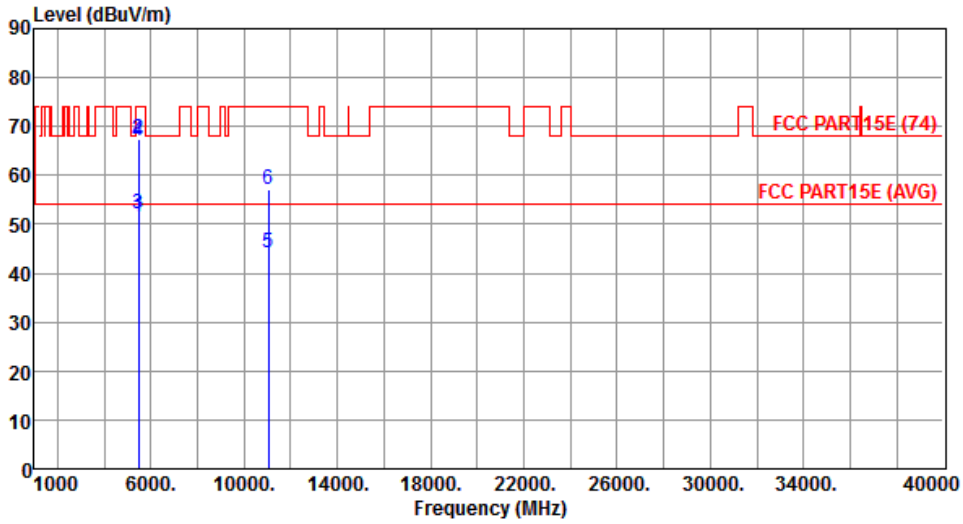
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	50.60	54.00	-3.40	44.24	6.36	Average	155	301
2	5460.00	66.92	74.00	-7.08	60.56	6.36	Peak	155	301
3	5470.00	51.94	54.00	-2.06	45.57	6.37	Average	155	301
4	5470.00	65.54	74.00	-8.46	59.17	6.37	Peak	155	301
5	11060.00	44.30	54.00	-9.70	28.53	15.77	Average	143	266
6	11060.00	57.12	74.00	-16.88	41.35	15.77	Peak	143	266

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

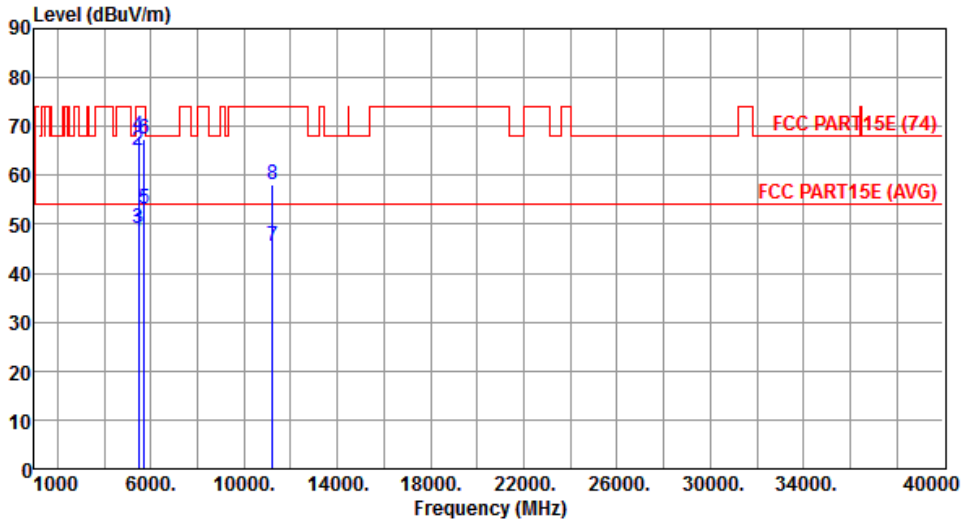
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	51.34	54.00	-2.66	44.98	6.36	Average	325	253
2	5460.00	67.32	74.00	-6.68	60.96	6.36	Peak	325	253
3	5470.00	51.99	54.00	-2.01	45.62	6.37	Average	325	253
4	5470.00	67.17	74.00	-6.83	60.80	6.37	Peak	325	253
5	11060.00	44.30	54.00	-9.70	28.53	15.77	Average	168	172
6	11060.00	57.08	74.00	-16.92	41.31	15.77	Peak	168	172

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

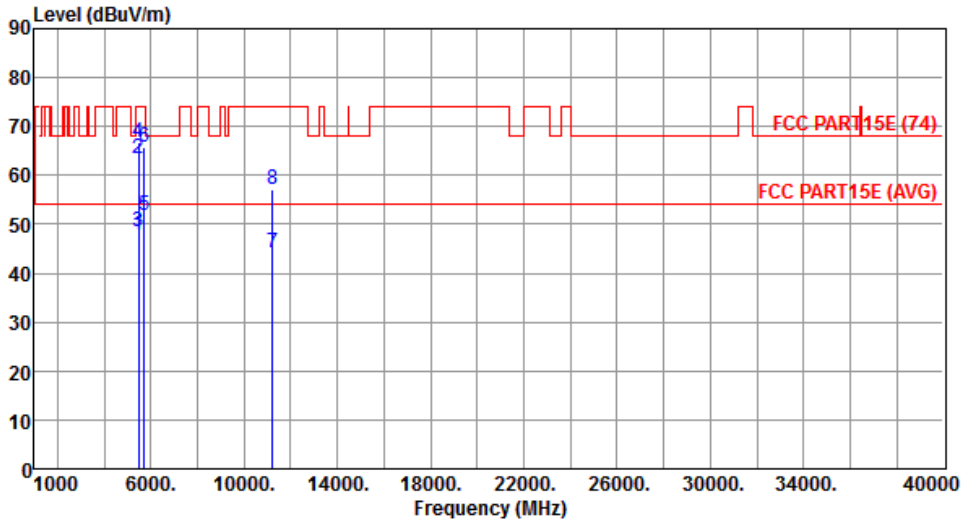
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.48	54.00	-5.52	42.12	6.36	Average	199	306
2	5460.00	65.17	74.00	-8.83	58.81	6.36	Peak	199	306
3	5470.00	49.21	54.00	-4.79	42.84	6.37	Average	199	306
4	5470.00	67.98	74.00	-6.02	61.61	6.37	Peak	199	306
5	5725.00	53.10	54.00	-0.90	46.27	6.83	Average	199	306
6	5725.00	67.50	74.00	-6.50	60.67	6.83	Peak	199	306
7	11220.00	45.39	54.00	-8.61	29.53	15.86	Average	185	144
8	11220.00	58.21	74.00	-15.79	42.35	15.86	Peak	185	144

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

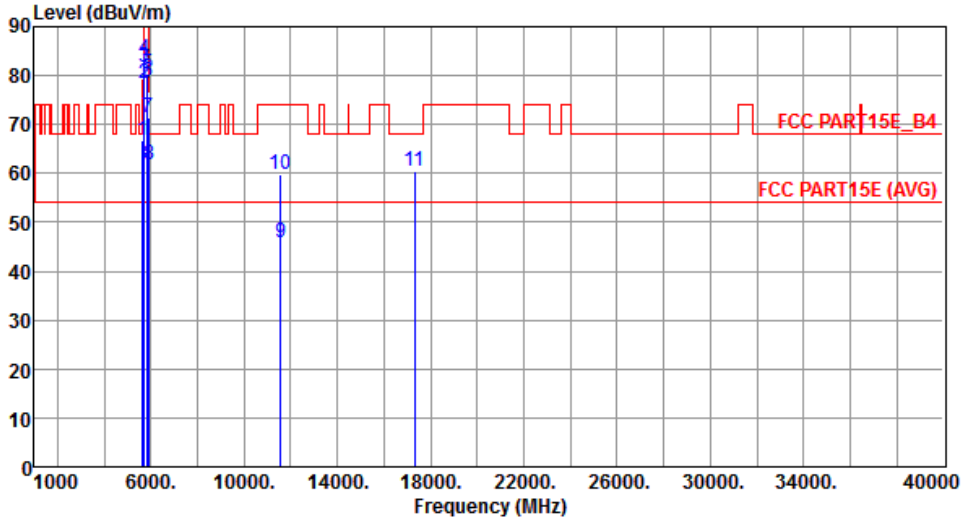
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		



	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	47.76	54.00	-6.24	41.40	6.36	Average	329	247
2	5460.00	63.56	74.00	-10.44	57.20	6.36	Peak	329	247
3	5470.00	48.38	54.00	-5.62	42.01	6.37	Average	329	247
4	5470.00	66.62	74.00	-7.38	60.25	6.37	Peak	329	247
5	5725.00	51.96	54.00	-2.04	45.13	6.83	Average	329	247
6	5725.00	65.78	74.00	-8.22	58.95	6.83	Peak	329	247
7	11220.00	44.20	54.00	-9.80	28.34	15.86	Average	210	168
8	11220.00	57.19	74.00	-16.81	41.33	15.86	Peak	210	168

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

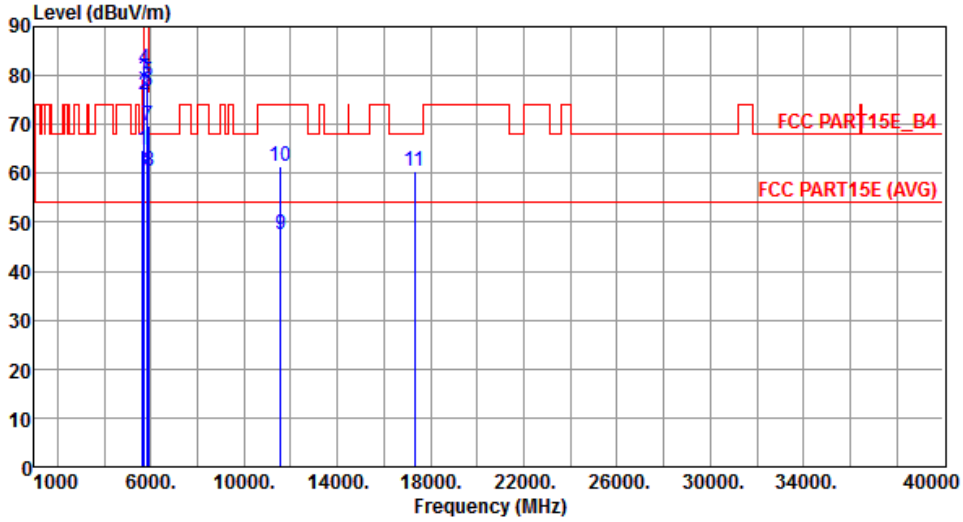
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.60	68.20	-1.60	59.97	6.63	Peak	160	293
2	5700.00	78.53	105.20	-26.67	71.76	6.77	Peak	160	293
3	5720.00	81.55	110.80	-29.25	74.73	6.82	Peak	160	293
4	5725.00	83.31	122.20	-38.89	76.48	6.83	Peak	160	293
5	5850.00	80.44	122.20	-41.76	73.28	7.16	Peak	160	293
6	5855.00	78.77	110.80	-32.03	71.59	7.18	Peak	160	293
7	5875.00	71.53	105.20	-33.67	64.30	7.23	Peak	160	293
8	5925.00	61.68	68.20	-6.52	54.34	7.34	Peak	160	293
9	11550.00	45.94	54.00	-8.06	30.01	15.93	Average	166	258
10	11550.00	59.86	74.00	-14.14	43.93	15.93	Peak	166	258
11	17325.00	60.35	68.20	-7.85	41.63	18.72	Peak	159	243

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

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



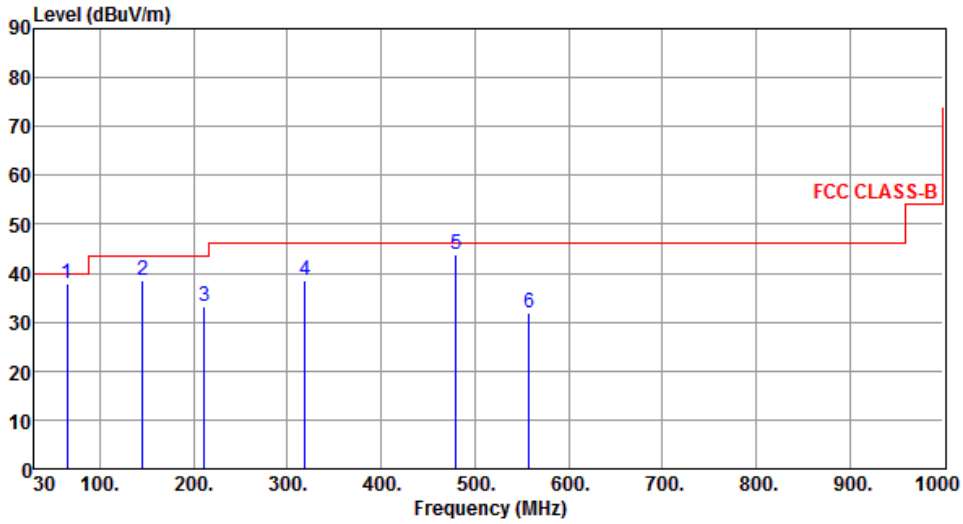
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	64.82	68.20	-3.38	58.19	6.63	Peak	259	261
2	5700.00	76.12	105.20	-29.08	69.35	6.77	Peak	259	261
3	5720.00	79.15	110.80	-31.65	72.33	6.82	Peak	259	261
4	5725.00	81.22	122.20	-40.98	74.39	6.83	Peak	259	261
5	5850.00	78.69	122.20	-43.51	71.53	7.16	Peak	259	261
6	5855.00	76.61	110.80	-34.19	69.43	7.18	Peak	259	261
7	5875.00	69.78	105.20	-35.42	62.55	7.23	Peak	259	261
8	5925.00	60.45	68.20	-7.75	53.11	7.34	Peak	259	261
9	11550.00	47.62	54.00	-6.38	31.69	15.93	Average	165	184
10	11550.00	61.32	74.00	-12.68	45.39	15.93	Peak	165	184
11	17325.00	60.59	68.20	-7.61	41.87	18.72	Peak	178	192

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

Configuration 2: External-Amtran + On-board ANT1 mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

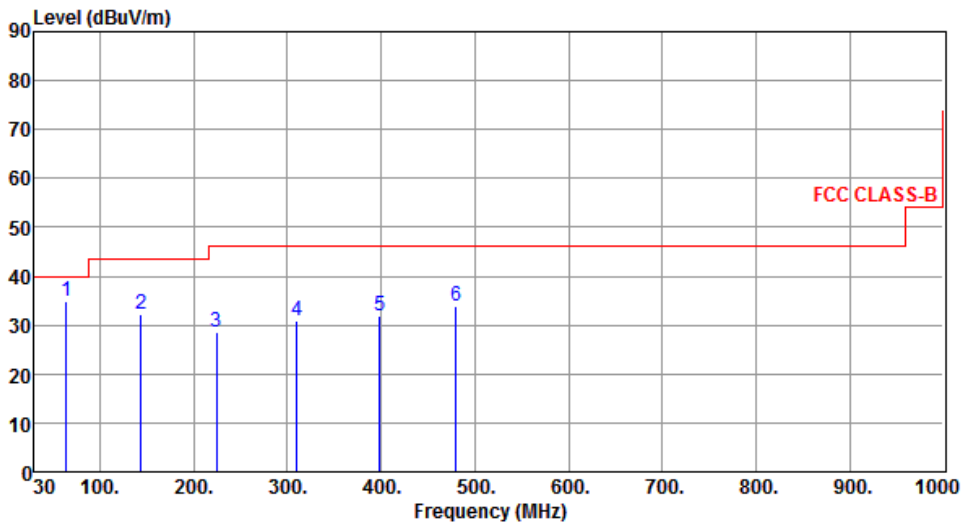
Modulation	VHT20	**Test Freq. (MHz)**	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	64.92	37.78	40.00	-2.22	47.34	-9.56	QP	385	151
2	145.43	38.54	43.50	-4.96	46.88	-8.34	Peak	---	---
3	211.39	33.06	43.50	-10.44	44.01	-10.95	QP	182	186
4	319.06	38.43	46.00	-7.57	45.61	-7.18	Peak	---	---
5	480.08	43.79	46.00	-2.21	47.00	-3.21	QP	183	77
6	557.68	32.00	46.00	-14.00	33.79	-1.79	Peak	---	---

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

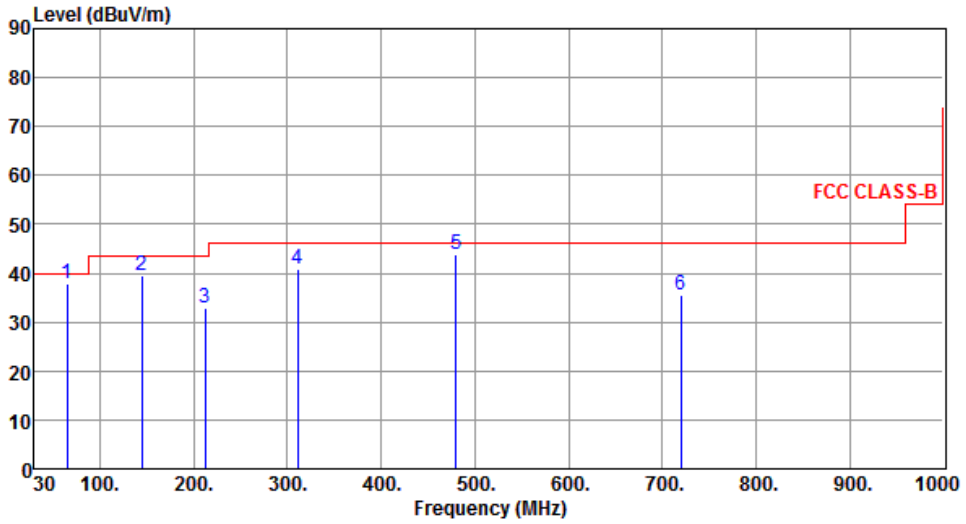
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	63.95	34.81	40.00	-5.19	44.17	-9.36	Peak	---	---
2	143.49	32.35	43.50	-11.15	40.75	-8.40	Peak	---	---
3	224.00	28.52	46.00	-17.48	39.13	-10.61	Peak	---	---
4	310.33	30.87	46.00	-15.13	38.29	-7.42	Peak	---	---
5	398.60	31.77	46.00	-14.23	36.79	-5.02	Peak	---	---
6	480.08	33.99	46.00	-12.01	37.20	-3.21	Peak	---	---

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

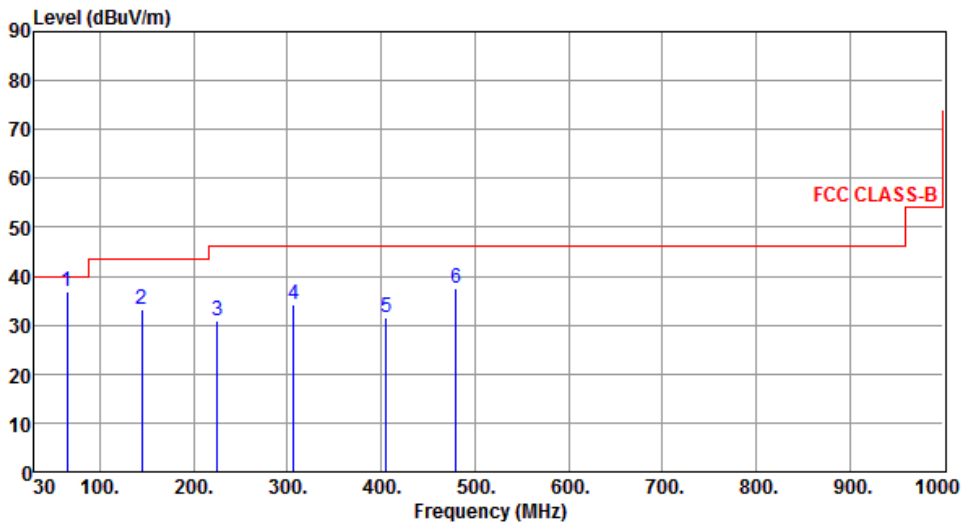
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	65.09	37.86	40.00	-2.14	47.46	-9.60	QP	386	145
2	144.46	39.46	43.50	-4.04	47.83	-8.37	Peak	---	---
3	212.30	32.91	43.50	-10.59	43.85	-10.94	QP	185	184
4	311.30	40.85	46.00	-5.15	48.24	-7.39	Peak	---	---
5	480.08	43.82	46.00	-2.18	47.03	-3.21	QP	179	74
6	719.67	35.65	46.00	-10.35	34.48	1.17	Peak	---	---

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

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

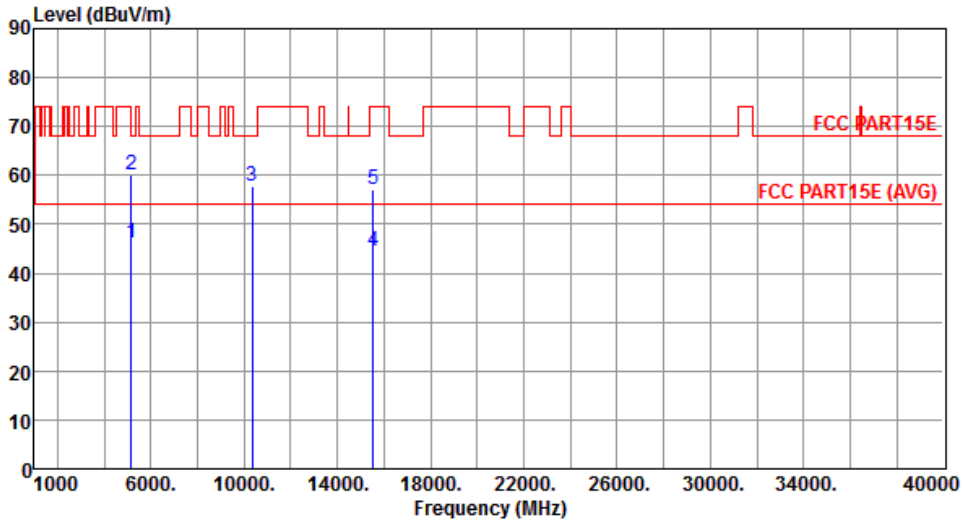


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	64.92	36.82	40.00	-3.18	46.38	-9.56	Peak	---	---
2	144.46	33.27	43.50	-10.23	41.64	-8.37	Peak	---	---
3	224.97	30.73	46.00	-15.27	41.29	-10.56	Peak	---	---
4	306.45	34.32	46.00	-11.68	41.84	-7.52	Peak	---	---
5	405.39	31.57	46.00	-14.43	36.41	-4.84	Peak	---	---
6	480.08	37.38	46.00	-8.62	40.59	-3.21	Peak	---	---

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

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

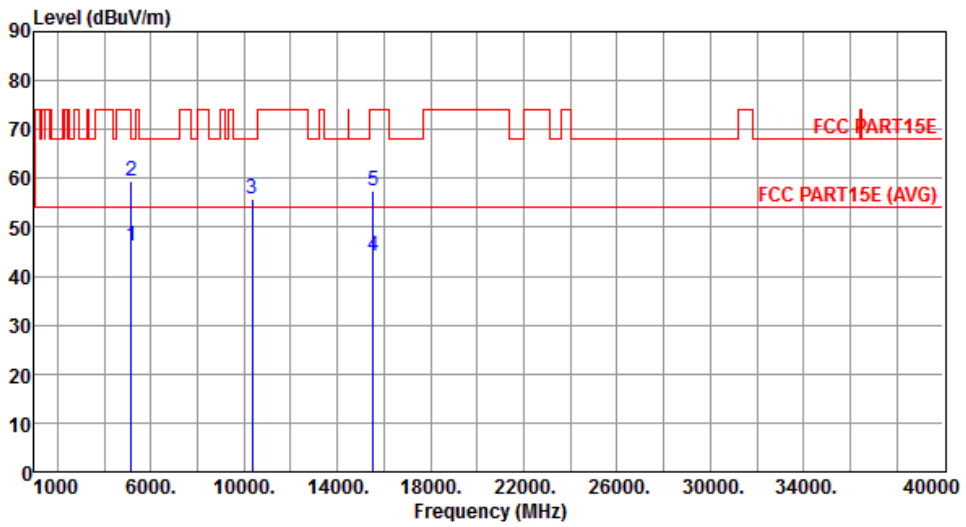
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		



	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	46.31	54.00	-7.69	40.44	5.87	Average	100	302
2	5150.00	59.99	74.00	-14.01	54.12	5.87	Peak	100	302
3	10360.00	57.67	68.20	-10.53	42.45	15.22	Peak	163	125
4	15540.00	44.60	54.00	-9.40	28.53	16.07	Average	122	143
5	15540.00	57.09	74.00	-16.91	41.02	16.07	Peak	122	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).

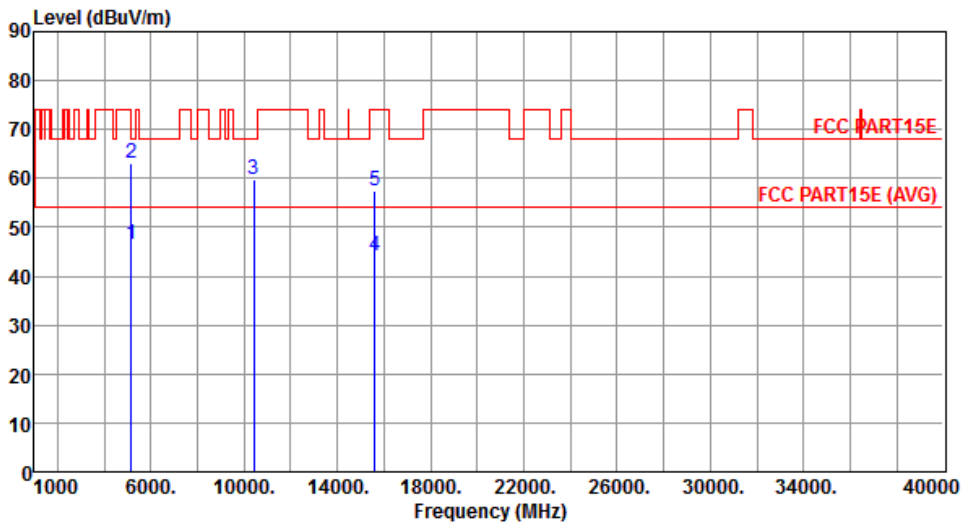
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	46.08	54.00	-7.92	40.21	5.87	Average	112	282
2	5150.00	59.31	74.00	-14.69	53.44	5.87	Peak	112	282
3	10360.00	55.95	68.20	-12.25	40.73	15.22	Peak	156	143
4	15540.00	44.18	54.00	-9.82	28.11	16.07	Average	142	168
5	15540.00	57.45	74.00	-16.55	41.38	16.07	Peak	142	168

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

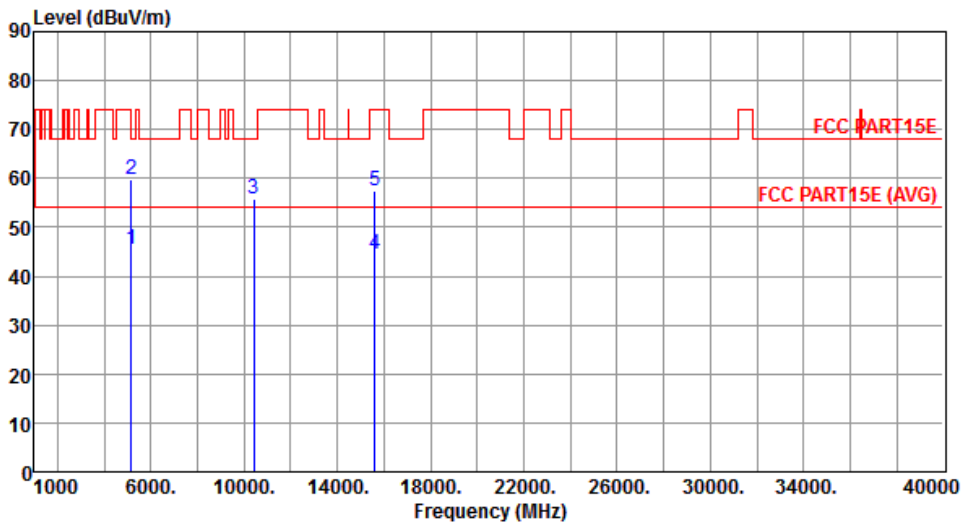
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	46.41	54.00	-7.59	40.54	5.87	Average	100	279
2	5150.00	63.15	74.00	-10.85	57.28	5.87	Peak	100	279
3	10400.00	59.85	68.20	-8.35	44.58	15.27	Peak	100	102
4	15600.00	44.26	54.00	-9.74	28.26	16.00	Average	100	156
5	15600.00	57.35	74.00	-16.65	41.35	16.00	Peak	100	156

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

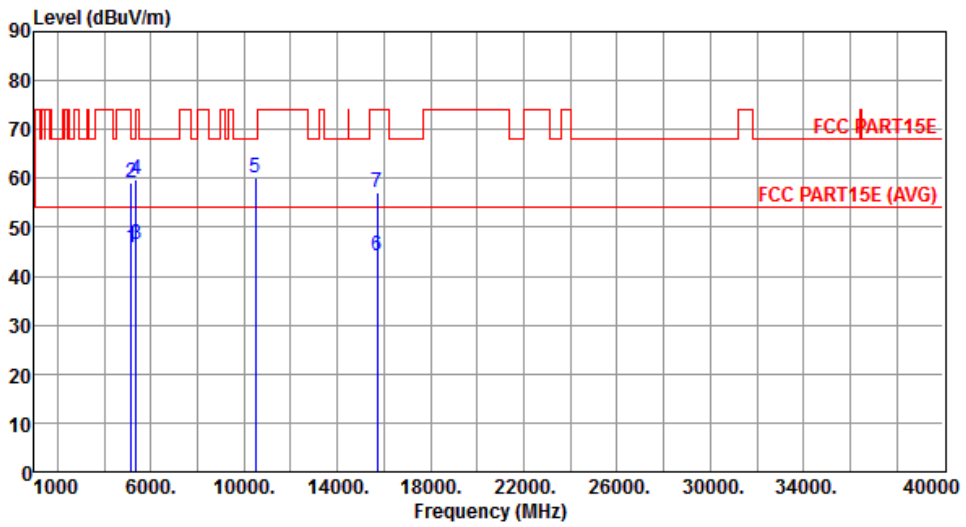
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	45.51	54.00	-8.49	39.64	5.87	Average	109	282
2	5150.00	59.79	74.00	-14.21	53.92	5.87	Peak	109	282
3	10400.00	55.89	68.20	-12.31	40.62	15.27	Peak	145	241
4	15600.00	44.53	54.00	-9.47	28.53	16.00	Average	165	163
5	15600.00	57.44	74.00	-16.56	41.44	16.00	Peak	165	163

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

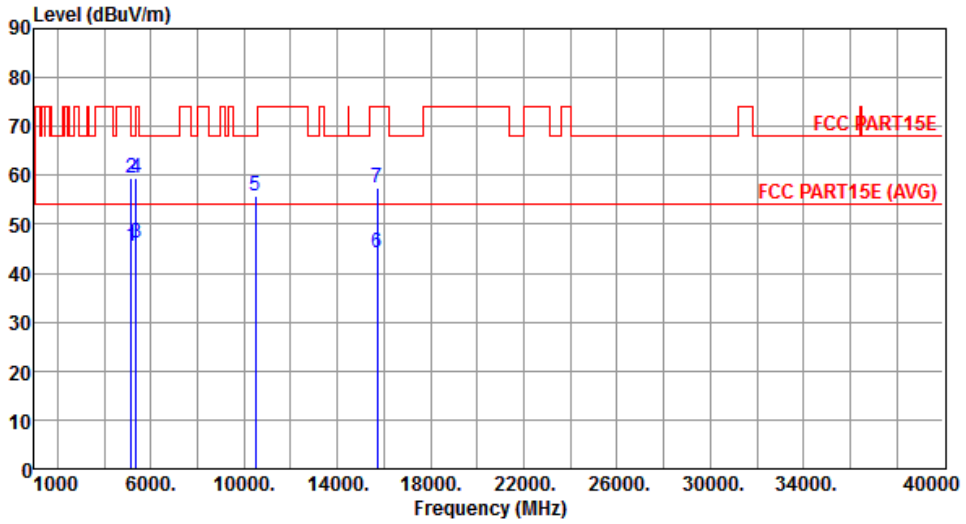
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.83	54.00	-8.17	39.96	5.87	Average	100	180
2	5150.00	59.18	74.00	-14.82	53.31	5.87	Peak	100	180
3	5350.00	46.34	54.00	-7.66	40.13	6.21	Average	100	180
4	5350.00	59.75	74.00	-14.25	53.54	6.21	Peak	100	180
5	10480.00	60.05	68.20	-8.15	44.69	15.36	Peak	100	100
6	15720.00	44.08	54.00	-9.92	28.22	15.86	Average	100	152
7	15720.00	57.20	74.00	-16.80	41.34	15.86	Peak	100	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).

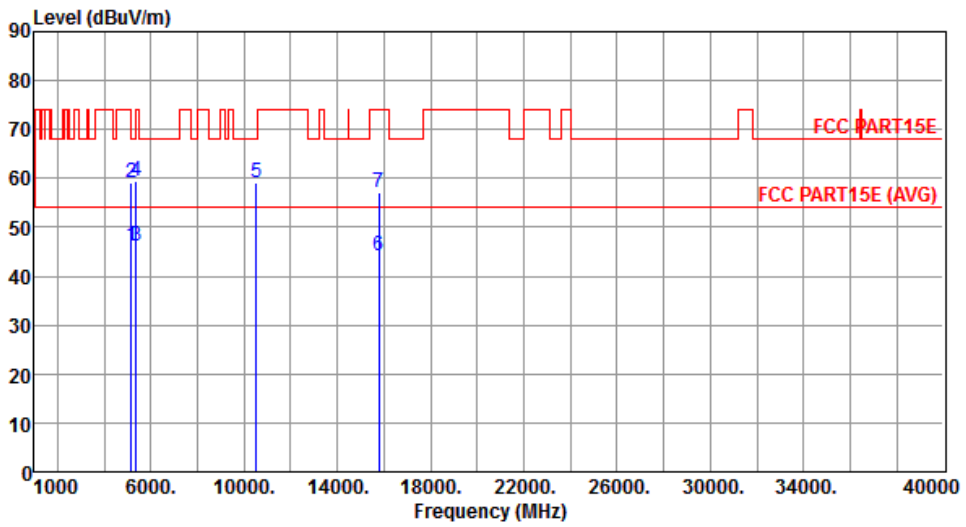
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.55	54.00	-8.45	39.68	5.87	Average	105	281
2	5150.00	59.31	74.00	-14.69	53.44	5.87	Peak	105	281
3	5350.00	46.24	54.00	-7.76	40.03	6.21	Average	105	281
4	5350.00	59.43	74.00	-14.57	53.22	6.21	Peak	105	281
5	10480.00	55.75	68.20	-12.45	40.39	15.36	Peak	142	239
6	15720.00	44.15	54.00	-9.85	28.29	15.86	Average	162	173
7	15720.00	57.49	74.00	-16.51	41.63	15.86	Peak	162	173

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

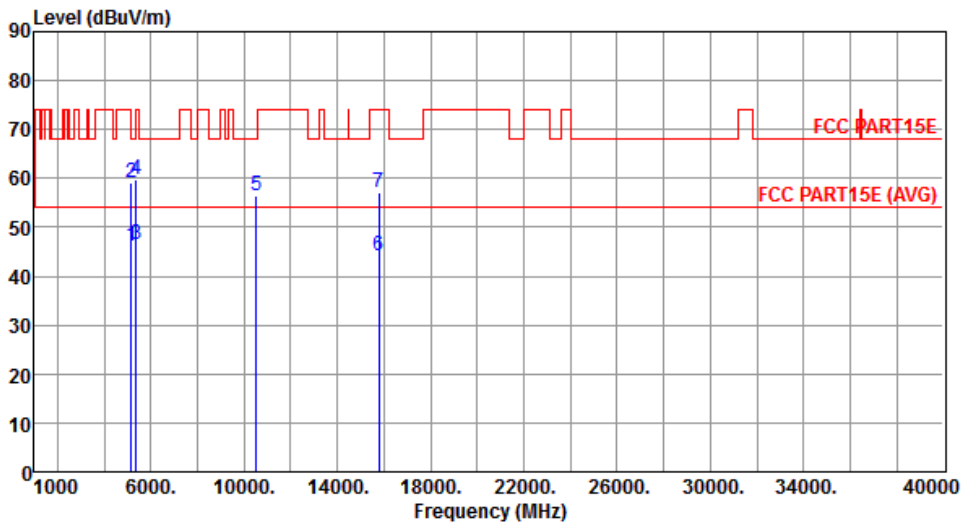
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.20	54.00	-7.80	40.33	5.87	Average	100	282
2	5150.00	59.03	74.00	-14.97	53.16	5.87	Peak	100	282
3	5350.00	46.24	54.00	-7.76	40.03	6.21	Average	100	282
4	5350.00	59.59	74.00	-14.41	53.38	6.21	Peak	100	290
5	10520.00	59.01	68.20	-9.19	43.60	15.41	Peak	100	115
6	15780.00	44.09	54.00	-9.91	28.31	15.78	Average	100	152
7	15780.00	57.15	74.00	-16.85	41.37	15.78	Peak	100	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).

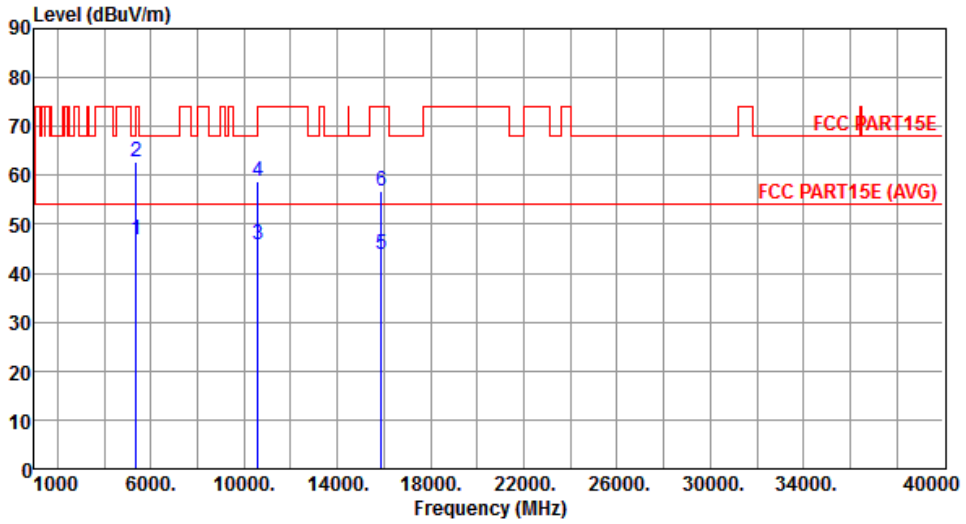
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	46.15	54.00	-7.85	40.28	5.87	Average	100	115
2	5150.00	58.98	74.00	-15.02	53.11	5.87	Peak	100	115
3	5350.00	46.60	54.00	-7.40	40.39	6.21	Average	100	115
4	5350.00	59.63	74.00	-14.37	53.42	6.21	Peak	100	115
5	10520.00	56.32	68.20	-11.88	40.91	15.41	Peak	100	322
6	15780.00	44.12	54.00	-9.88	28.34	15.78	Average	100	136
7	15780.00	57.23	74.00	-16.77	41.45	15.78	Peak	100	136

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

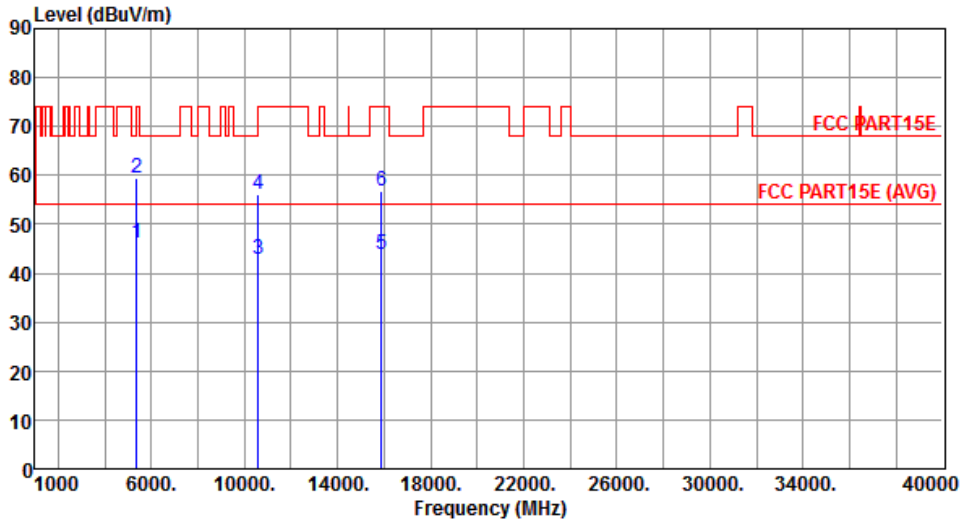
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.93	54.00	-7.07	40.72	6.21	Average	100	289
2	5350.00	62.68	74.00	-11.32	56.47	6.21	Peak	100	289
3	10600.00	45.69	54.00	-8.31	30.23	15.46	Average	100	117
4	10600.00	58.86	74.00	-15.14	43.40	15.46	Peak	100	117
5	15900.00	43.98	54.00	-10.02	28.34	15.64	Average	100	155
6	15900.00	56.92	74.00	-17.08	41.28	15.64	Peak	100	155

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

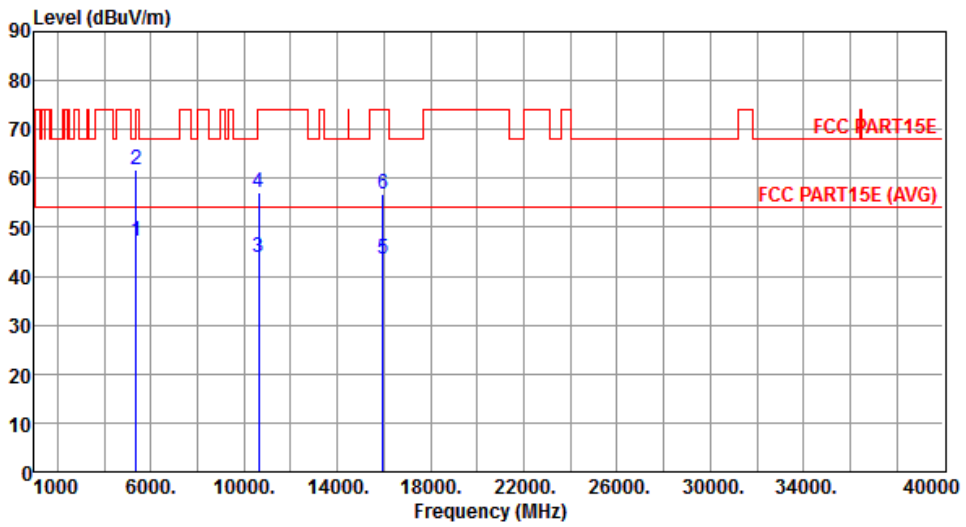
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.32	54.00	-7.68	40.11	6.21	Average	100	117
2	5350.00	59.60	74.00	-14.40	53.39	6.21	Peak	100	117
3	10600.00	42.99	54.00	-11.01	27.53	15.46	Average	100	325
4	10600.00	56.11	74.00	-17.89	40.65	15.46	Peak	100	325
5	15900.00	43.99	54.00	-10.01	28.35	15.64	Average	100	122
6	15900.00	56.91	74.00	-17.09	41.27	15.64	Peak	100	122

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

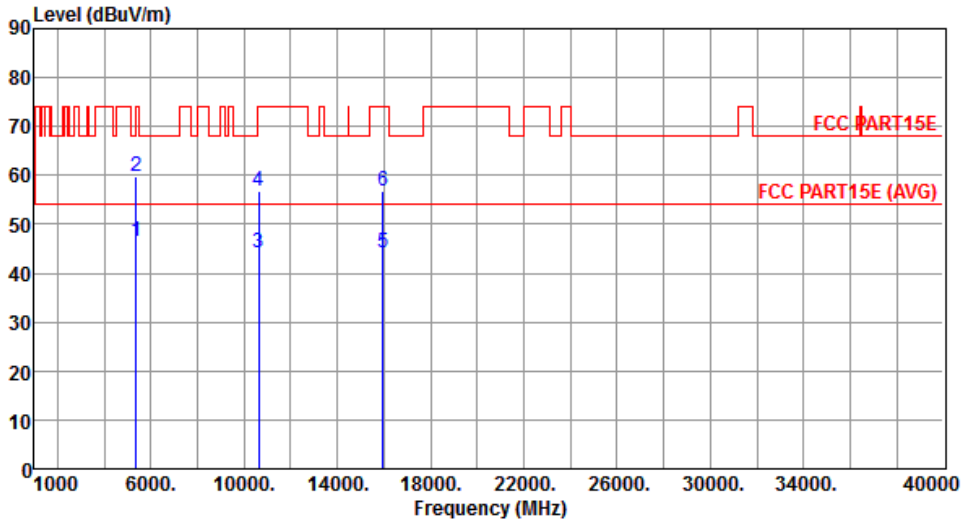
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	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	47.17	54.00	-6.83	40.96	6.21	Average	100	294
2	5350.00	61.81	74.00	-12.19	55.60	6.21	Peak	100	294
3	10640.00	43.99	54.00	-10.01	28.50	15.49	Average	166	223
4	10640.00	56.96	74.00	-17.04	41.47	15.49	Peak	166	223
5	15960.00	43.67	54.00	-10.33	28.10	15.57	Average	182	168
6	15960.00	56.94	74.00	-17.06	41.37	15.57	Peak	182	168

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

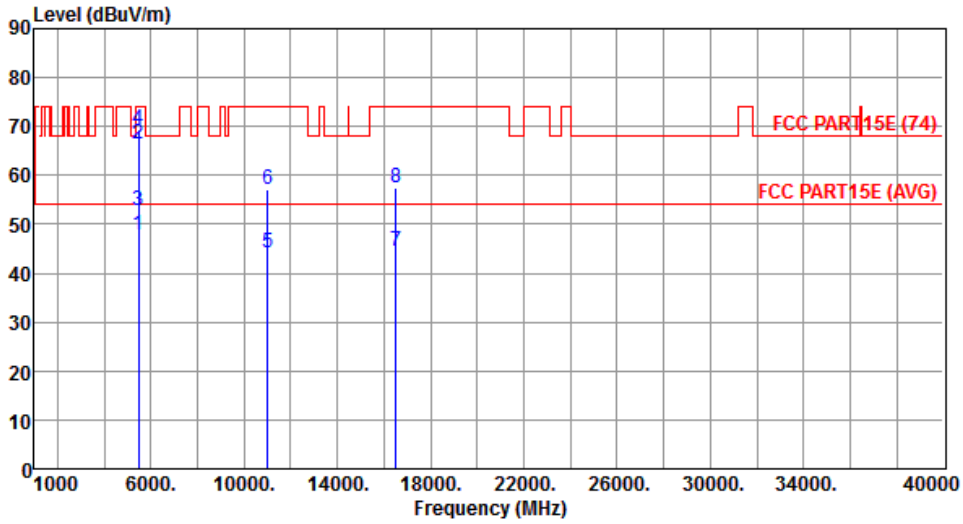
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.42	54.00	-7.58	40.21	6.21	Average	102	115
2	5350.00	59.70	74.00	-14.30	53.49	6.21	Peak	102	115
3	10640.00	44.02	54.00	-9.98	28.53	15.49	Average	100	143
4	10640.00	56.76	74.00	-17.24	41.27	15.49	Peak	100	143
5	15960.00	44.01	54.00	-9.99	28.44	15.57	Average	100	168
6	15960.00	56.80	74.00	-17.20	41.23	15.57	Peak	100	168

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

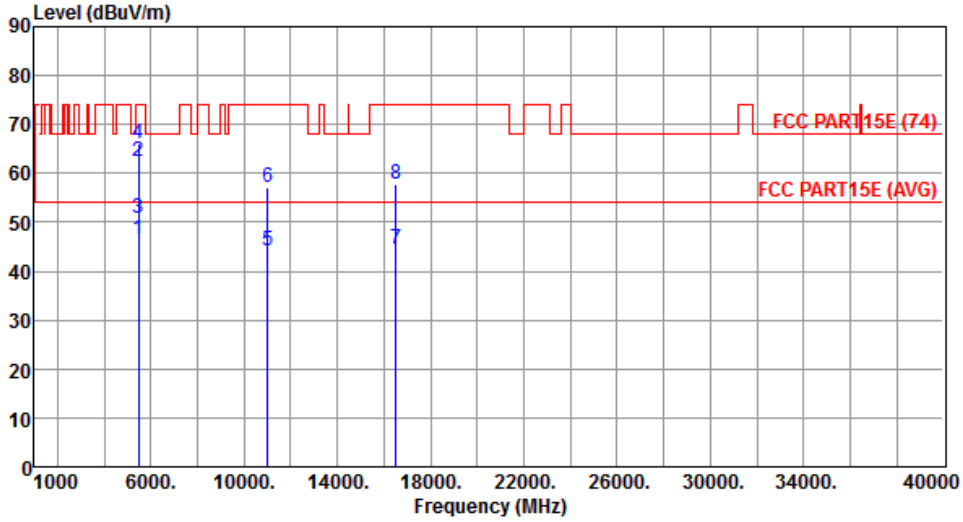
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.81	54.00	-6.19	41.45	6.36	Average	100	296
2	5460.00	66.44	74.00	-7.56	60.08	6.36	Peak	100	296
3	5470.00	52.70	54.00	-1.30	46.33	6.37	Average	100	296
4	5470.00	69.37	74.00	-4.63	63.00	6.37	Peak	100	296
5	11000.00	44.14	54.00	-9.86	28.40	15.74	Average	132	133
6	11000.00	57.01	74.00	-16.99	41.27	15.74	Peak	132	133
7	16500.00	44.56	54.00	-9.44	28.53	16.03	Average	168	163
8	16500.00	57.40	74.00	-16.60	41.37	16.03	Peak	168	163

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

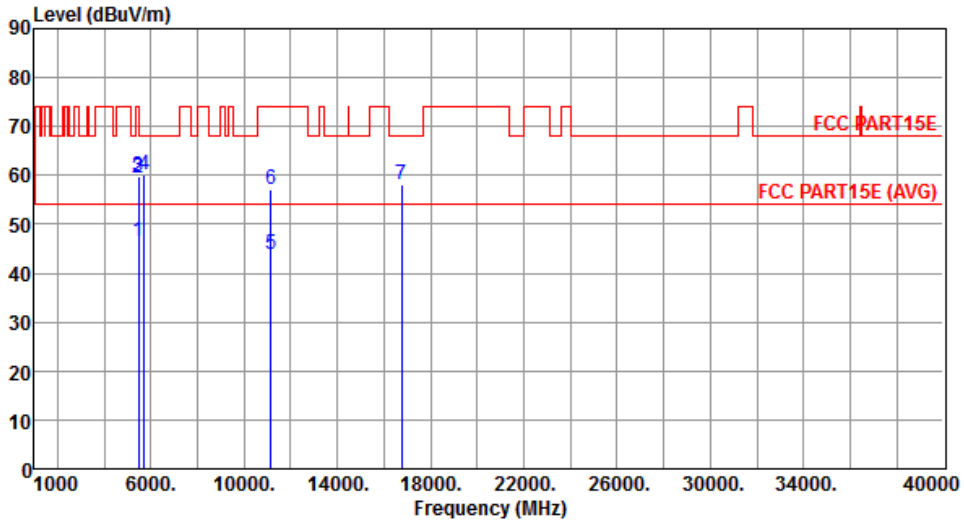
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	46.58	54.00	-7.42	40.22	6.36	Average	100	261
2	5460.00	62.48	74.00	-11.52	56.12	6.36	Peak	100	261
3	5470.00	50.69	54.00	-3.31	44.32	6.37	Average	100	261
4	5470.00	65.95	74.00	-8.05	59.58	6.37	Peak	100	261
5	11000.00	44.30	54.00	-9.70	28.56	15.74	Average	100	138
6	11000.00	56.99	74.00	-17.01	41.25	15.74	Peak	100	138
7	16500.00	44.47	54.00	-9.53	28.44	16.03	Average	122	147
8	16500.00	57.64	74.00	-16.36	41.61	16.03	Peak	122	147

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

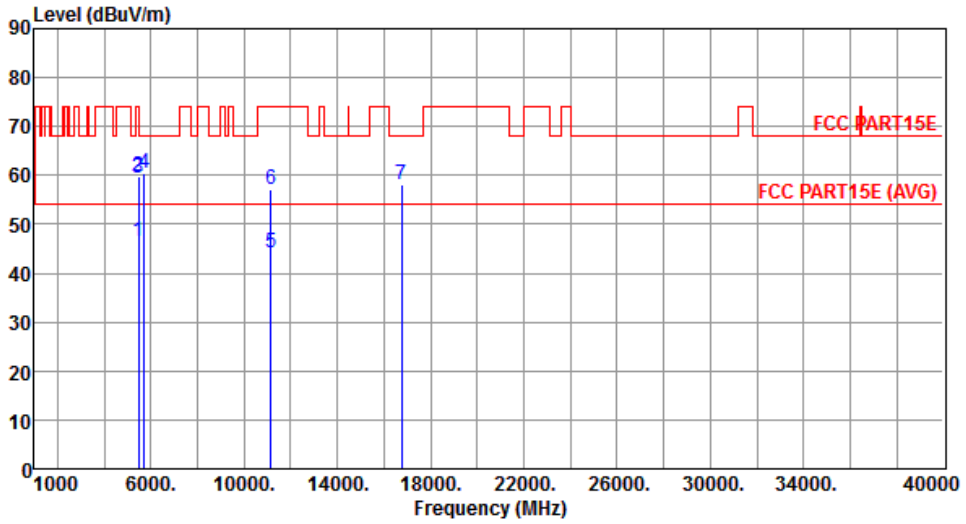
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.52	54.00	-7.48	40.16	6.36	Average	100	299
2	5460.00	59.57	74.00	-14.43	53.21	6.36	Peak	100	299
3	5470.00	59.70	68.20	-8.50	53.33	6.37	Peak	100	299
4	5725.00	60.18	68.20	-8.02	53.35	6.83	Peak	100	299
5	11160.00	43.87	54.00	-10.13	28.04	15.83	Average	100	52
6	11160.00	57.08	74.00	-16.92	41.25	15.83	Peak	100	52
7	16740.00	58.22	68.20	-9.98	41.42	16.80	Peak	100	166

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

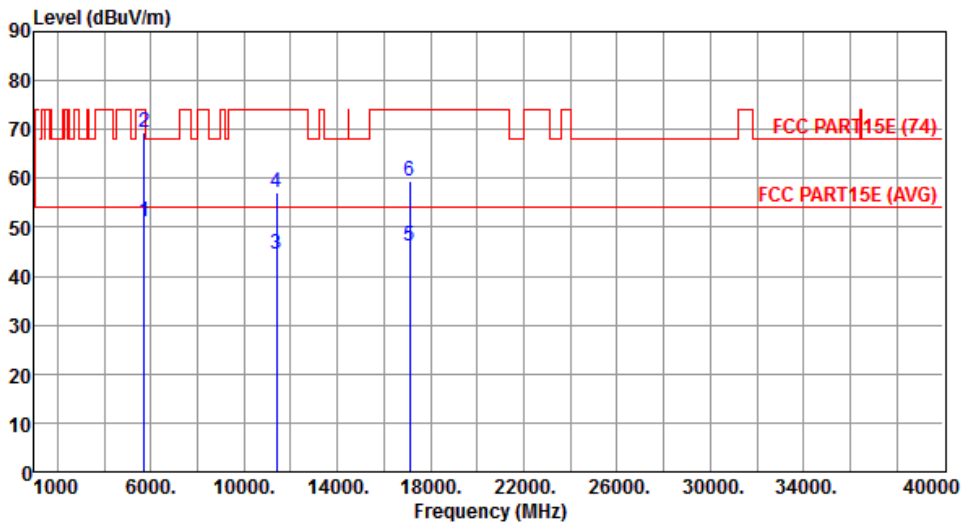
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	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	46.38	54.00	-7.62	40.02	6.36	Average	273	263
2	5460.00	59.69	74.00	-14.31	53.33	6.36	Peak	273	263
3	5470.00	59.49	68.20	-8.71	53.12	6.37	Peak	273	263
4	5725.00	60.49	68.20	-7.71	53.66	6.83	Peak	273	263
5	11160.00	44.07	54.00	-9.93	28.24	15.83	Average	100	168
6	11160.00	57.18	74.00	-16.82	41.35	15.83	Peak	100	168
7	16740.00	58.23	68.20	-9.97	41.43	16.80	Peak	100	213

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

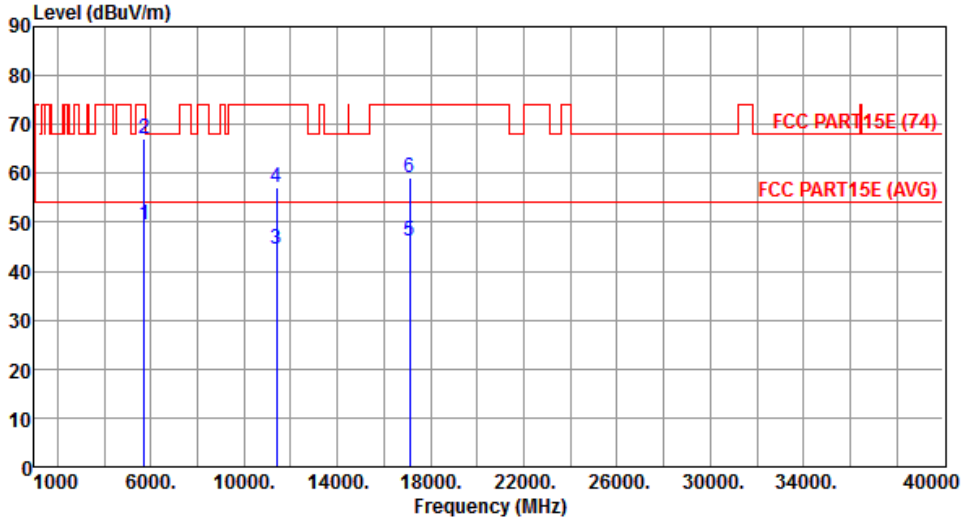
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	51.31	54.00	-2.69	44.48	6.83	Average	103	243
2	5725.00	69.53	74.00	-4.47	62.70	6.83	Peak	103	243
3	11400.00	44.49	54.00	-9.51	28.53	15.96	Average	155	168
4	11400.00	57.24	74.00	-16.76	41.28	15.96	Peak	155	168
5	17100.00	46.19	54.00	-7.81	28.23	17.96	Average	163	144
6	17100.00	59.41	74.00	-14.59	41.45	17.96	Peak	163	144

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

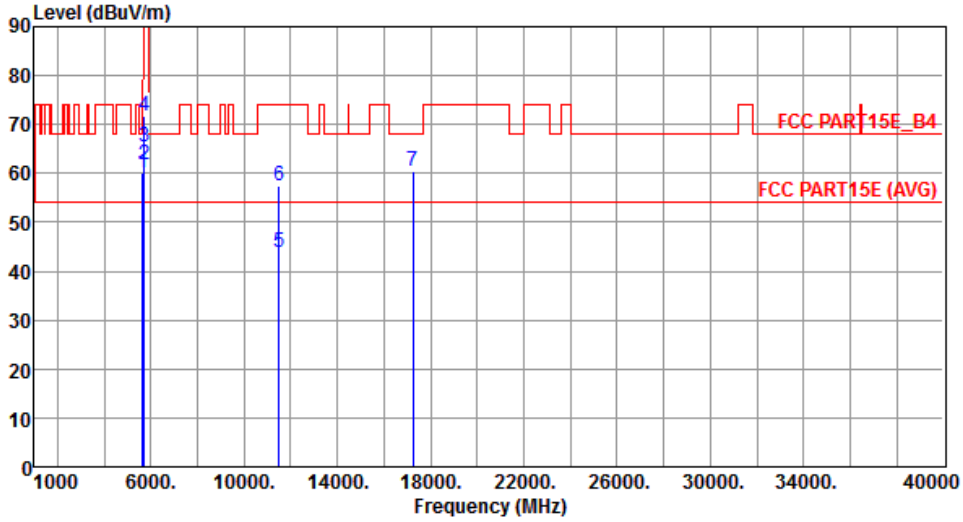
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	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	49.44	54.00	-4.56	42.61	6.83	Average	211	275
2	5725.00	67.14	74.00	-6.86	60.31	6.83	Peak	211	275
3	11400.00	44.49	54.00	-9.51	28.53	15.96	Average	155	216
4	11400.00	57.17	74.00	-16.83	41.21	15.96	Peak	155	216
5	17100.00	46.08	54.00	-7.92	28.12	17.96	Average	138	145
6	17100.00	59.24	74.00	-14.76	41.28	17.96	Peak	138	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).

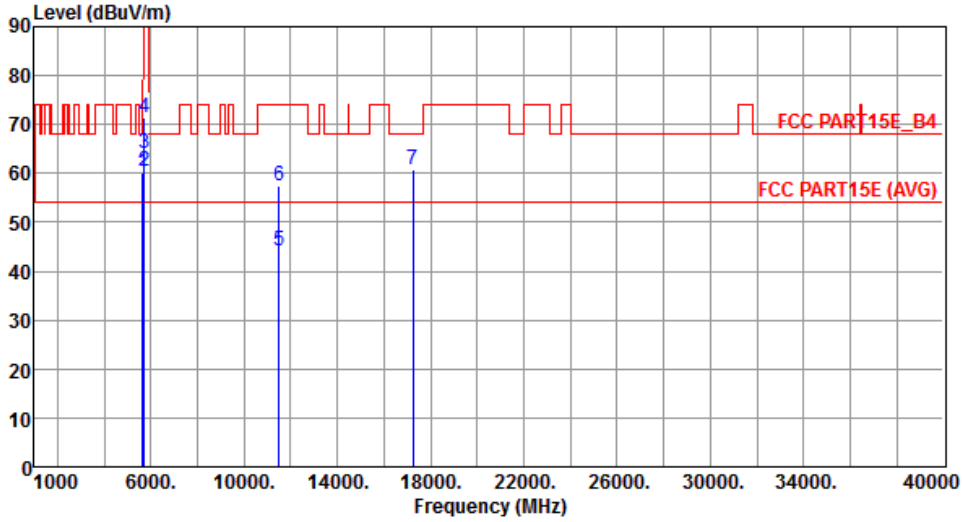
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.16	68.20	-8.04	53.53	6.63	Peak	100	244
2	5700.00	61.89	105.20	-43.31	55.12	6.77	Peak	100	244
3	5720.00	65.43	110.80	-45.37	58.61	6.82	Peak	100	244
4	5725.00	71.61	122.20	-50.59	64.78	6.83	Peak	100	244
5	11490.00	43.95	54.00	-10.05	27.94	16.01	Average	100	166
6	11490.00	57.54	74.00	-16.46	41.53	16.01	Peak	100	166
7	17235.00	60.37	68.20	-7.83	41.94	18.43	Peak	100	216

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

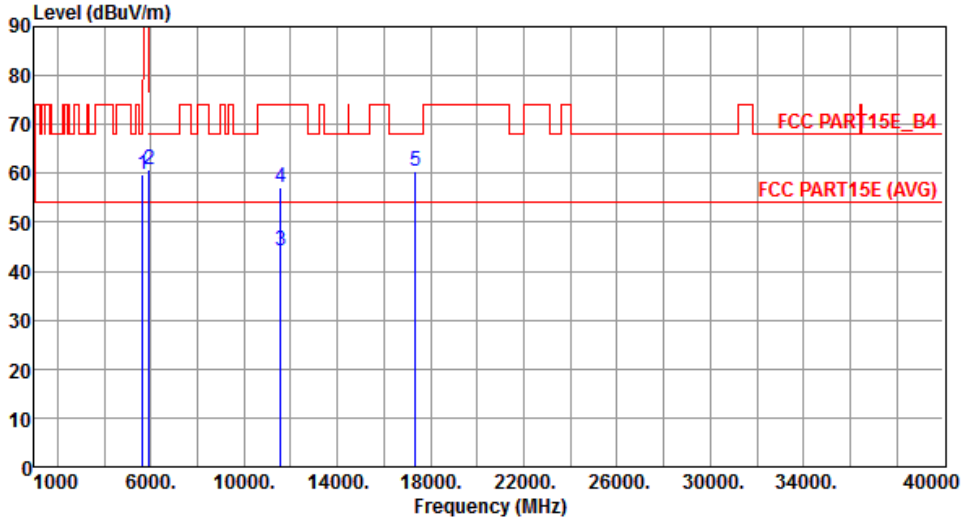
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.96	68.20	-8.24	53.33	6.63	Peak	184	271
2	5700.00	60.29	105.20	-44.91	53.52	6.77	Peak	184	271
3	5720.00	64.24	110.80	-46.56	57.42	6.82	Peak	184	271
4	5725.00	71.37	122.20	-50.83	64.54	6.83	Peak	184	271
5	11490.00	44.06	54.00	-9.94	28.05	16.01	Average	166	138
6	11490.00	57.44	74.00	-16.56	41.43	16.01	Peak	166	138
7	17235.00	60.83	68.20	-7.37	42.40	18.43	Peak	172	156

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

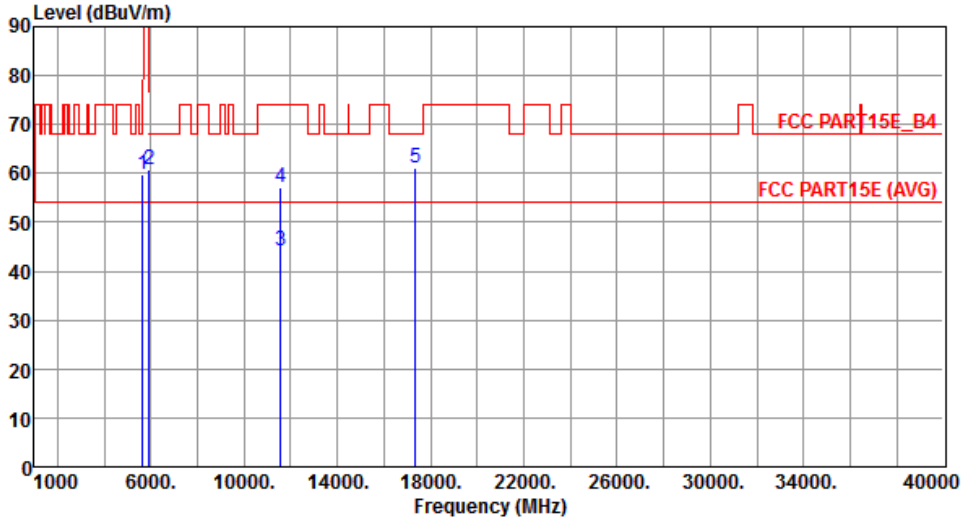
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.91	68.20	-8.29	53.28	6.63	Peak	100	243
2	5925.00	60.89	68.20	-7.31	53.55	7.34	Peak	100	243
3	11570.00	44.16	54.00	-9.84	28.27	15.89	Average	100	162
4	11570.00	57.27	74.00	-16.73	41.38	15.89	Peak	100	162
5	17355.00	60.51	68.20	-7.69	41.69	18.82	Peak	100	205

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

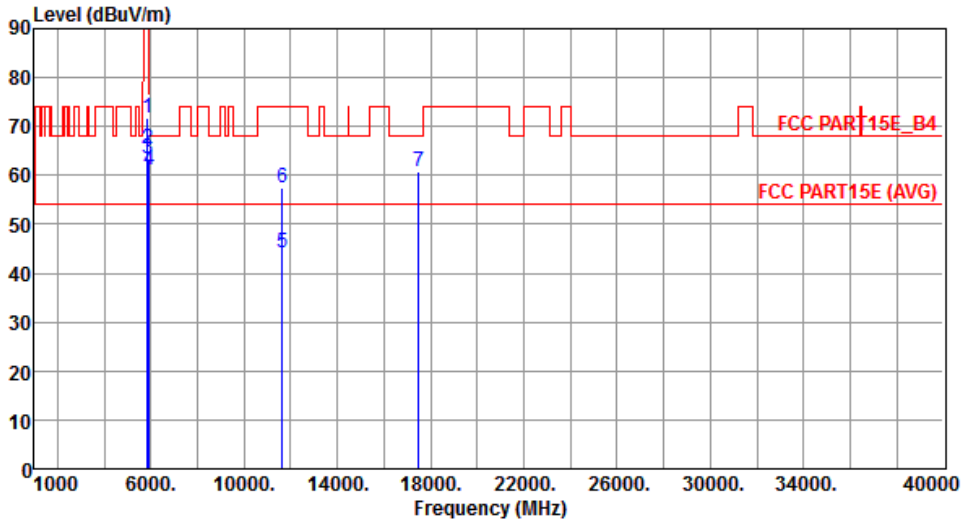
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.87	68.20	-8.33	53.24	6.63	Peak	182	270
2	5925.00	60.65	68.20	-7.55	53.31	7.34	Peak	182	270
3	11570.00	44.11	54.00	-9.89	28.22	15.89	Average	165	135
4	11570.00	57.21	74.00	-16.79	41.32	15.89	Peak	165	135
5	17355.00	61.04	68.20	-7.16	42.22	18.82	Peak	170	155

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

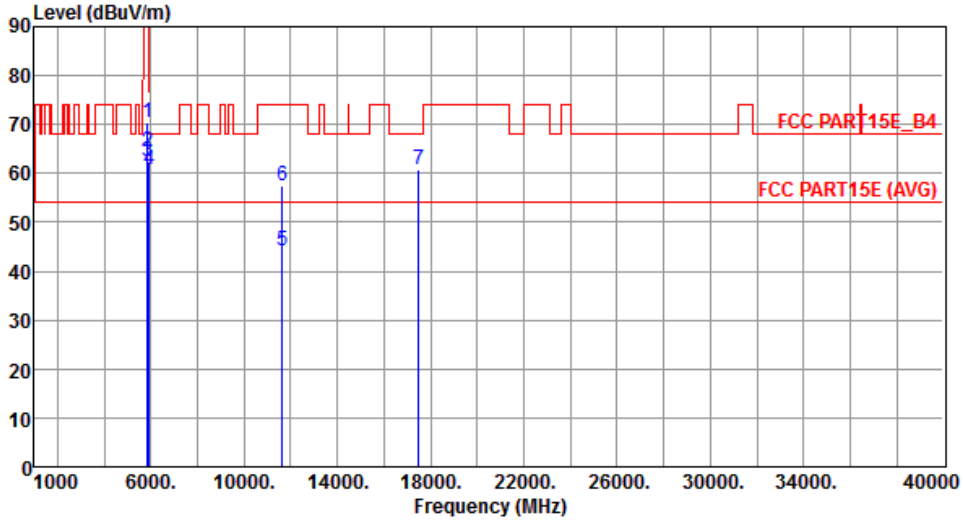
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	71.89	122.20	-50.31	64.73	7.16	Peak	100	243
2	5855.00	65.42	110.80	-45.38	58.24	7.18	Peak	100	243
3	5875.00	63.53	105.20	-41.67	56.30	7.23	Peak	100	243
4	5925.00	60.96	68.20	-7.24	53.62	7.34	Peak	100	243
5	11650.00	44.05	54.00	-9.95	28.31	15.74	Average	100	162
6	11650.00	57.42	74.00	-16.58	41.68	15.74	Peak	100	162
7	17475.00	60.76	68.20	-7.44	41.53	19.23	Peak	100	212

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

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

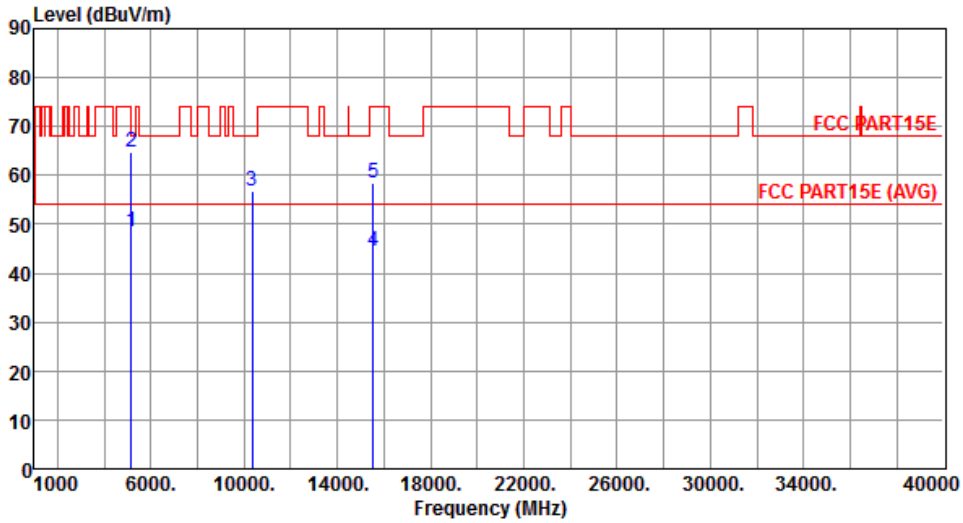


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	70.53	122.20	-51.67	63.37	7.16	Peak	182	270
2	5855.00	64.41	110.80	-46.39	57.23	7.18	Peak	182	270
3	5875.00	62.37	105.20	-42.83	55.14	7.23	Peak	182	270
4	5925.00	60.67	68.20	-7.53	53.33	7.34	Peak	182	270
5	11650.00	44.25	54.00	-9.75	28.51	15.74	Average	163	135
6	11650.00	57.40	74.00	-16.60	41.66	15.74	Peak	163	135
7	17475.00	60.85	68.20	-7.35	41.62	19.23	Peak	170	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).

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

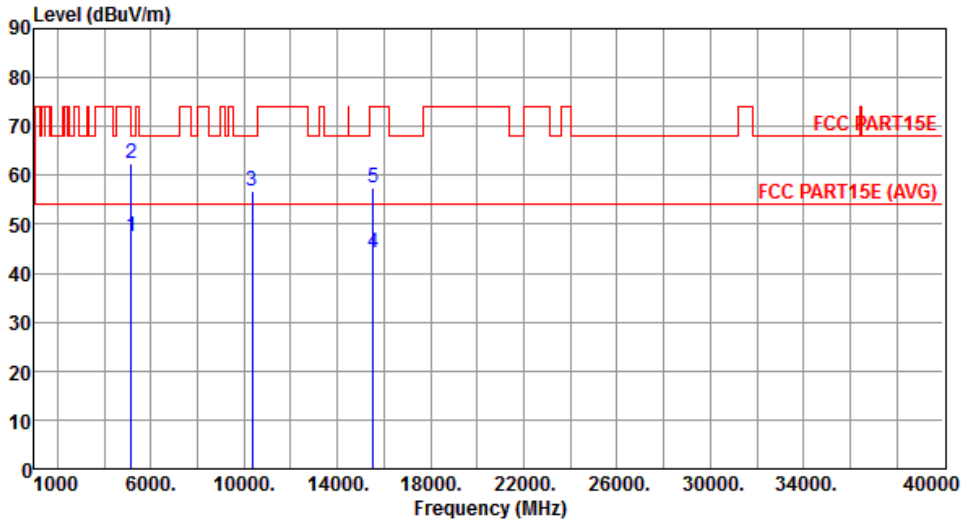
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Horizontal		



	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	48.33	54.00	-5.67	42.46	5.87	Average	302	304
2	5150.00	64.92	74.00	-9.08	59.05	5.87	Peak	302	304
3	10360.00	56.77	68.20	-11.43	41.55	15.22	Peak	188	215
4	15540.00	44.38	54.00	-9.62	28.31	16.07	Average	135	152
5	15540.00	58.32	74.00	-15.68	42.25	16.07	Peak	135	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).

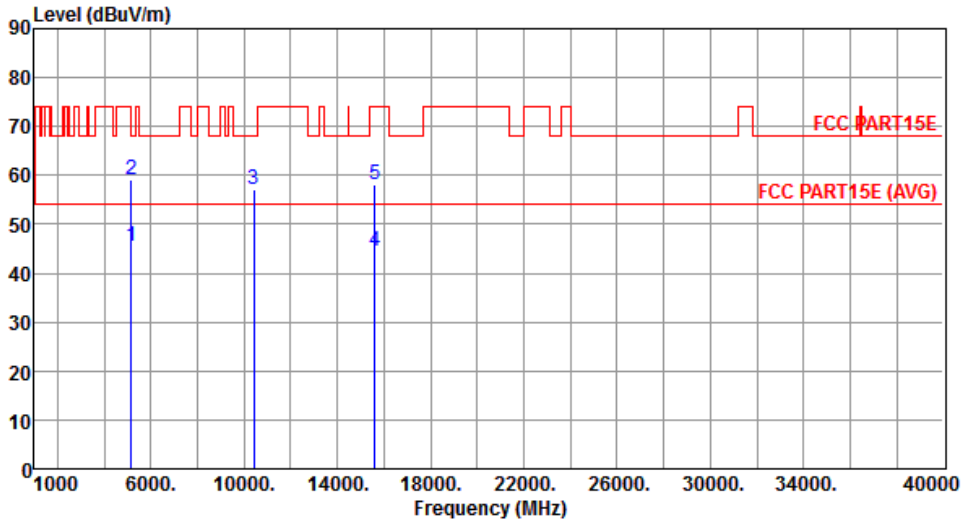
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	47.48	54.00	-6.52	41.61	5.87	Average	316	261
2	5150.00	62.55	74.00	-11.45	56.68	5.87	Peak	316	261
3	10360.00	56.68	68.20	-11.52	41.46	15.22	Peak	133	154
4	15540.00	44.23	54.00	-9.77	28.16	16.07	Average	145	163
5	15540.00	57.60	74.00	-16.40	41.53	16.07	Peak	145	163

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

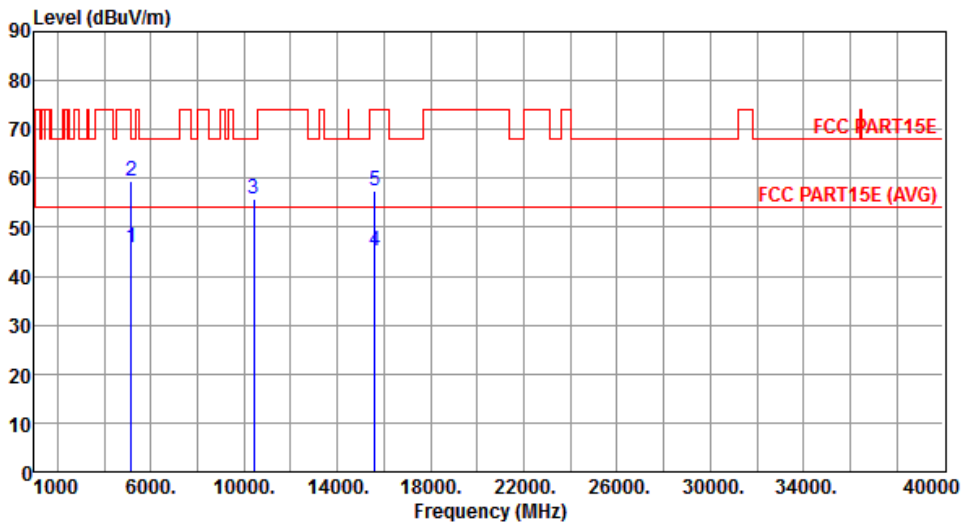
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	45.44	54.00	-8.56	39.57	5.87	Average	299	303
2	5150.00	59.17	74.00	-14.83	53.30	5.87	Peak	299	303
3	10400.00	57.02	68.20	-11.18	41.75	15.27	Peak	155	228
4	15600.00	44.55	54.00	-9.45	28.55	16.00	Average	135	147
5	15600.00	58.21	74.00	-15.79	42.21	16.00	Peak	135	147

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

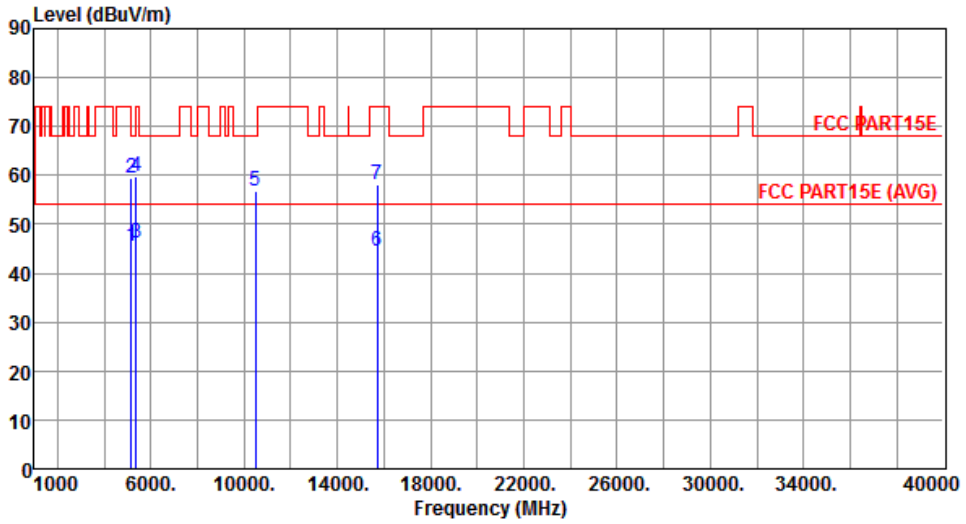
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	45.99	54.00	-8.01	40.12	5.87	Average	312	261
2	5150.00	59.29	74.00	-14.71	53.42	5.87	Peak	312	261
3	10400.00	55.80	68.20	-12.40	40.53	15.27	Peak	100	156
4	15600.00	45.20	54.00	-8.80	29.20	16.00	Average	133	128
5	15600.00	57.43	74.00	-16.57	41.43	16.00	Peak	133	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).

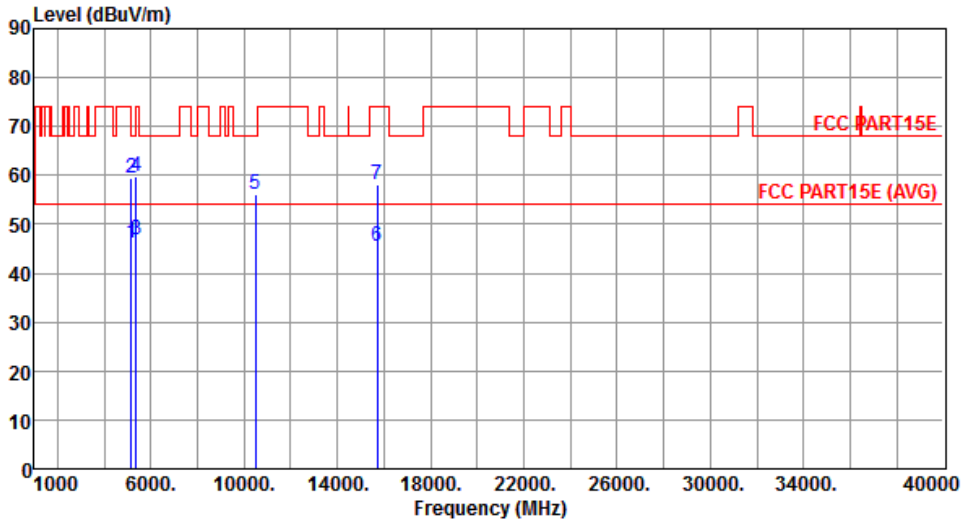
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.49	54.00	-8.51	39.62	5.87	Average	298	302
2	5150.00	59.29	74.00	-14.71	53.42	5.87	Peak	298	302
3	5350.00	46.33	54.00	-7.67	40.12	6.21	Average	298	302
4	5350.00	59.90	74.00	-14.10	53.69	6.21	Peak	298	302
5	10480.00	56.81	68.20	-11.39	41.45	15.36	Peak	152	222
6	15720.00	44.39	54.00	-9.61	28.53	15.86	Average	132	152
7	15720.00	58.02	74.00	-15.98	42.16	15.86	Peak	132	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).

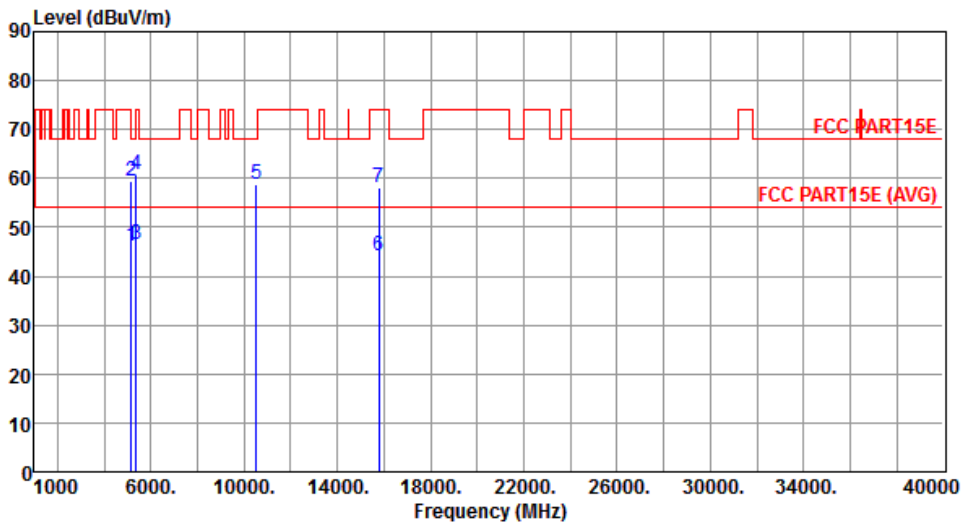
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.10	54.00	-7.90	40.23	5.87	Average	310	262
2	5150.00	59.42	74.00	-14.58	53.55	5.87	Peak	310	262
3	5350.00	46.75	54.00	-7.25	40.54	6.21	Average	310	262
4	5350.00	59.84	74.00	-14.16	53.63	6.21	Peak	310	262
5	10480.00	55.99	68.20	-12.21	40.63	15.36	Peak	100	158
6	15720.00	45.39	54.00	-8.61	29.53	15.86	Average	132	144
7	15720.00	58.14	74.00	-15.86	42.28	15.86	Peak	132	144

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

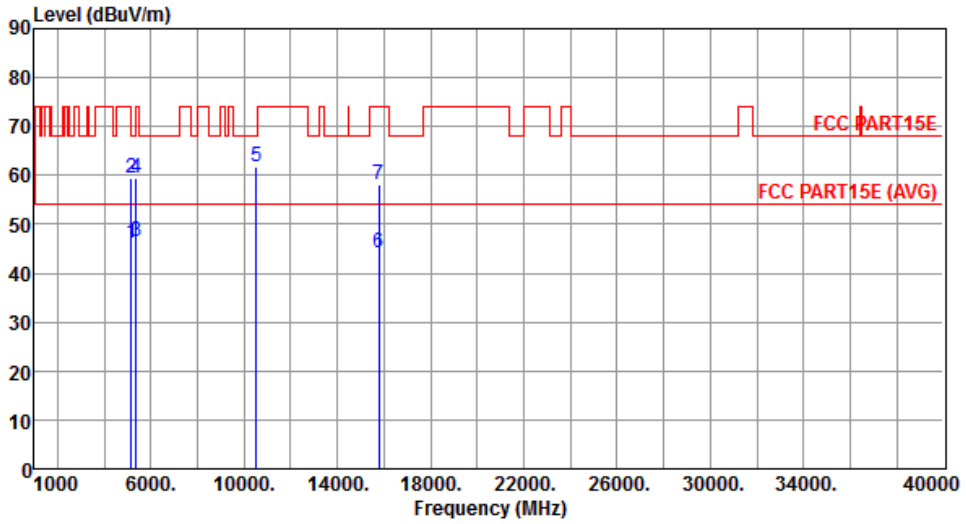
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.20	54.00	-7.80	40.33	5.87	Average	295	302
2	5150.00	59.29	74.00	-14.71	53.42	5.87	Peak	295	302
3	5350.00	46.43	54.00	-7.57	40.22	6.21	Average	295	302
4	5350.00	60.87	74.00	-13.13	54.66	6.21	Peak	295	302
5	10520.00	58.71	68.20	-9.49	43.30	15.41	Peak	100	242
6	15780.00	44.04	54.00	-9.96	28.26	15.78	Average	155	210
7	15780.00	58.09	74.00	-15.91	42.31	15.78	Peak	155	210

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

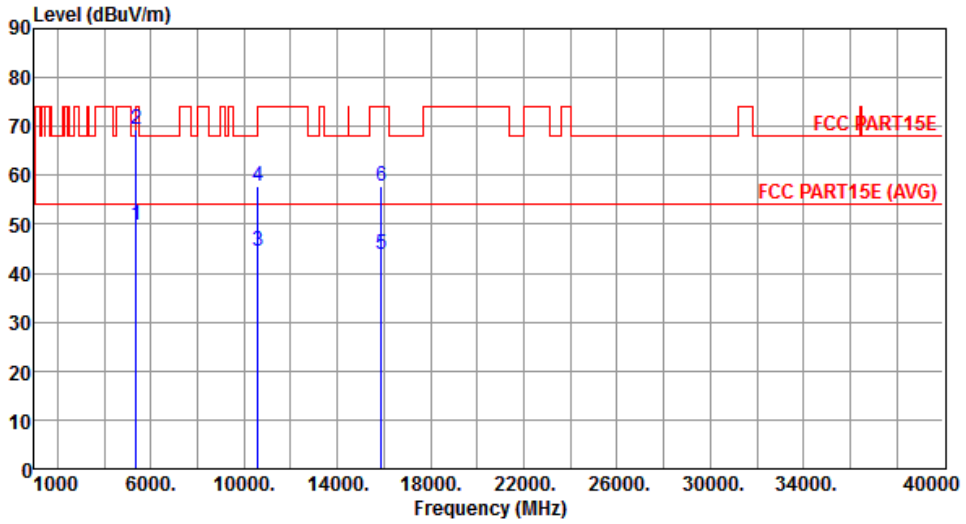
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.09	54.00	-7.91	40.22	5.87	Average	300	262
2	5150.00	59.41	74.00	-14.59	53.54	5.87	Peak	300	262
3	5350.00	46.53	54.00	-7.47	40.32	6.21	Average	300	262
4	5350.00	59.60	74.00	-14.40	53.39	6.21	Peak	300	262
5	10520.00	61.78	68.20	-6.42	46.37	15.41	Peak	192	173
6	15780.00	44.22	54.00	-9.78	28.44	15.78	Average	142	140
7	15780.00	58.16	74.00	-15.84	42.38	15.78	Peak	142	140

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

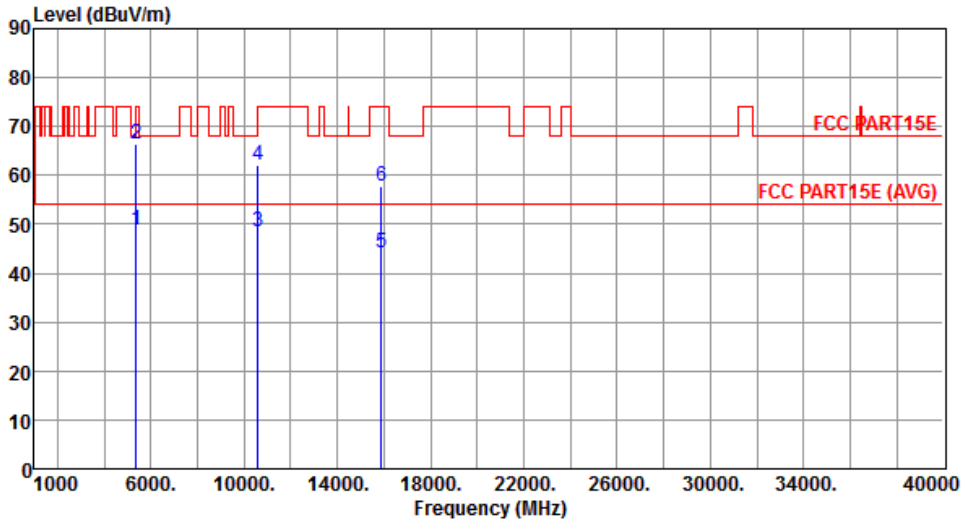
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.66	54.00	-4.34	43.45	6.21	Average	298	305
2	5350.00	69.25	74.00	-4.75	63.04	6.21	Peak	298	305
3	10600.00	44.38	54.00	-9.62	28.92	15.46	Average	100	245
4	10600.00	57.81	74.00	-16.19	42.35	15.46	Peak	100	245
5	15900.00	43.88	54.00	-10.12	28.24	15.64	Average	166	212
6	15900.00	57.88	74.00	-16.12	42.24	15.64	Peak	166	212

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

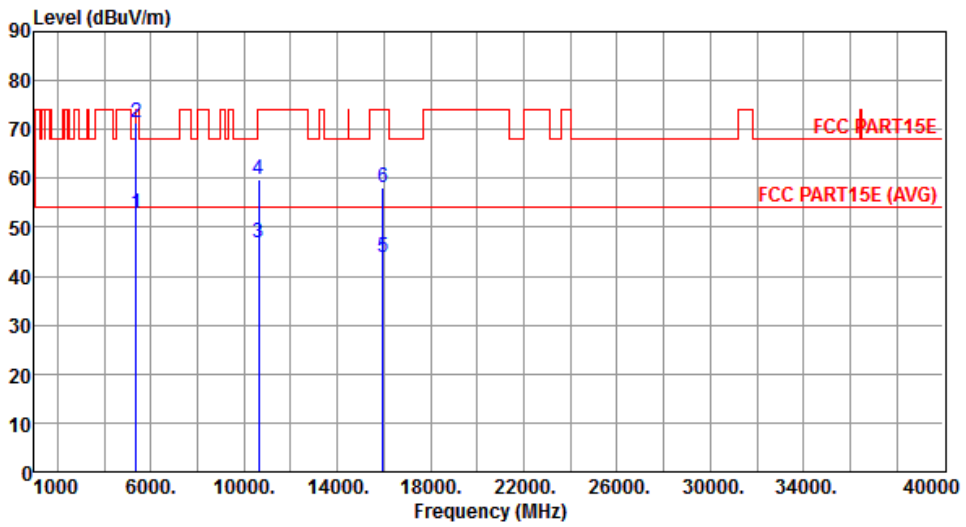
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.83	54.00	-5.17	42.62	6.21	Average	300	263
2	5350.00	66.46	74.00	-7.54	60.25	6.21	Peak	300	263
3	10600.00	48.35	54.00	-5.65	32.89	15.46	Average	195	175
4	10600.00	62.18	74.00	-11.82	46.72	15.46	Peak	195	175
5	15900.00	44.29	54.00	-9.71	28.65	15.64	Average	138	142
6	15900.00	57.87	74.00	-16.13	42.23	15.64	Peak	138	142

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

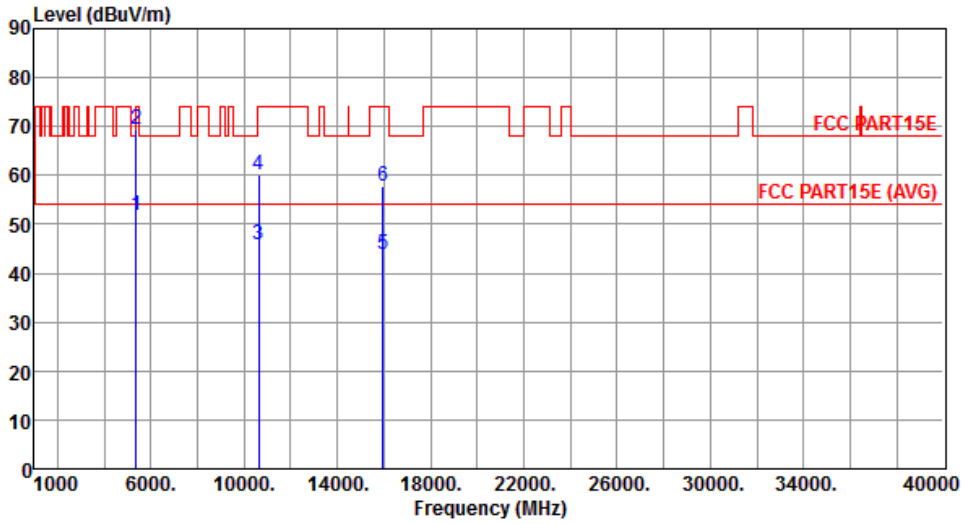
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	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	52.76	54.00	-1.24	46.55	6.21	Average	298	304
2	5350.00	71.50	74.00	-2.50	65.29	6.21	Peak	298	304
3	10640.00	46.70	54.00	-7.30	31.21	15.49	Average	155	146
4	10640.00	59.70	74.00	-14.30	44.21	15.49	Peak	155	146
5	15960.00	43.99	54.00	-10.01	28.42	15.57	Average	133	182
6	15960.00	58.19	74.00	-15.81	42.62	15.57	Peak	133	182

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

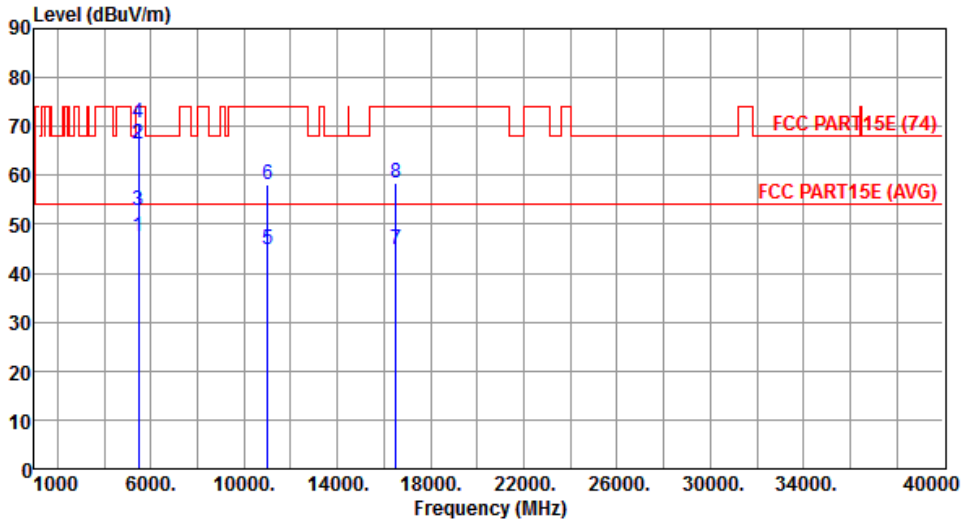
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	51.81	54.00	-2.19	45.60	6.21	Average	299	259
2	5350.00	69.54	74.00	-4.46	63.33	6.21	Peak	299	259
3	10640.00	45.92	54.00	-8.08	30.43	15.49	Average	163	248
4	10640.00	60.01	74.00	-13.99	44.52	15.49	Peak	163	248
5	15960.00	43.81	54.00	-10.19	28.24	15.57	Average	122	212
6	15960.00	57.88	74.00	-16.12	42.31	15.57	Peak	122	212

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

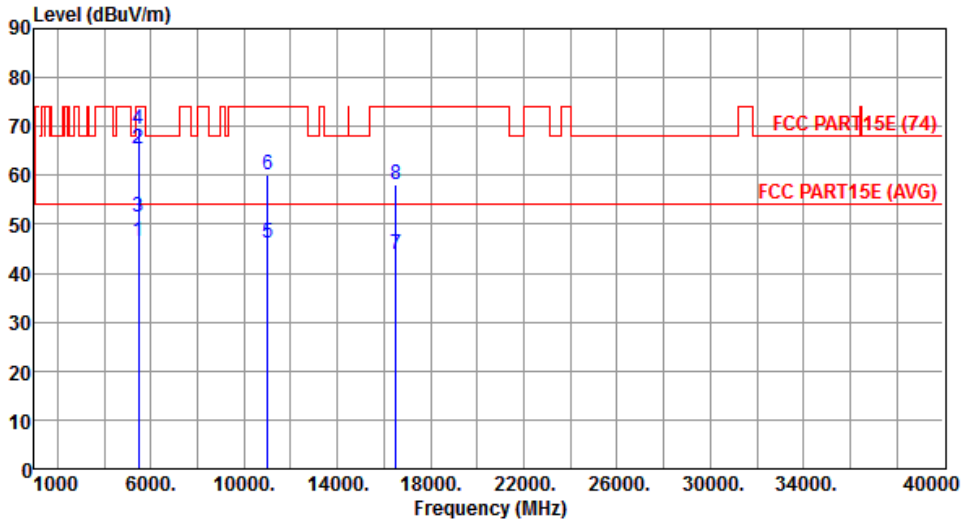
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.48	54.00	-6.52	41.12	6.36	Average	313	352
2	5460.00	66.44	74.00	-7.56	60.08	6.36	Peak	313	352
3	5470.00	52.84	54.00	-1.16	46.47	6.37	Average	313	352
4	5470.00	70.61	74.00	-3.39	64.24	6.37	Peak	313	352
5	11000.00	44.81	54.00	-9.19	29.07	15.74	Average	306	349
6	11000.00	57.96	74.00	-16.04	42.22	15.74	Peak	306	349
7	16500.00	44.96	54.00	-9.04	28.93	16.03	Average	291	341
8	16500.00	58.32	74.00	-15.68	42.29	16.03	Peak	291	341

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

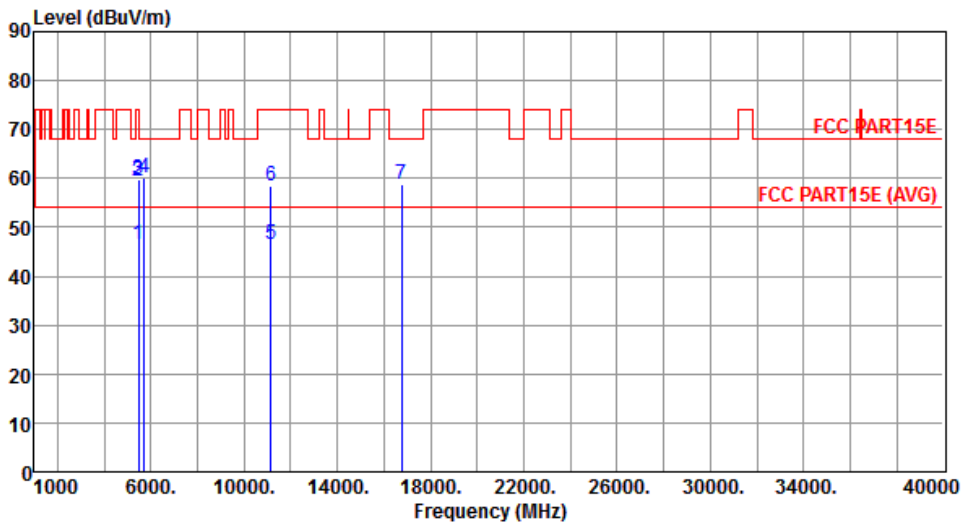
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.35	54.00	-7.65	39.99	6.36	Average	295	268
2	5460.00	65.28	74.00	-8.72	58.92	6.36	Peak	295	268
3	5470.00	51.42	54.00	-2.58	45.05	6.37	Average	295	268
4	5470.00	69.55	74.00	-4.45	63.18	6.37	Peak	295	268
5	11000.00	46.15	54.00	-7.85	30.41	15.74	Average	203	251
6	11000.00	60.24	74.00	-13.76	44.50	15.74	Peak	203	251
7	16500.00	43.95	54.00	-10.05	27.92	16.03	Average	198	246
8	16500.00	57.98	74.00	-16.02	41.95	16.03	Peak	198	246

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

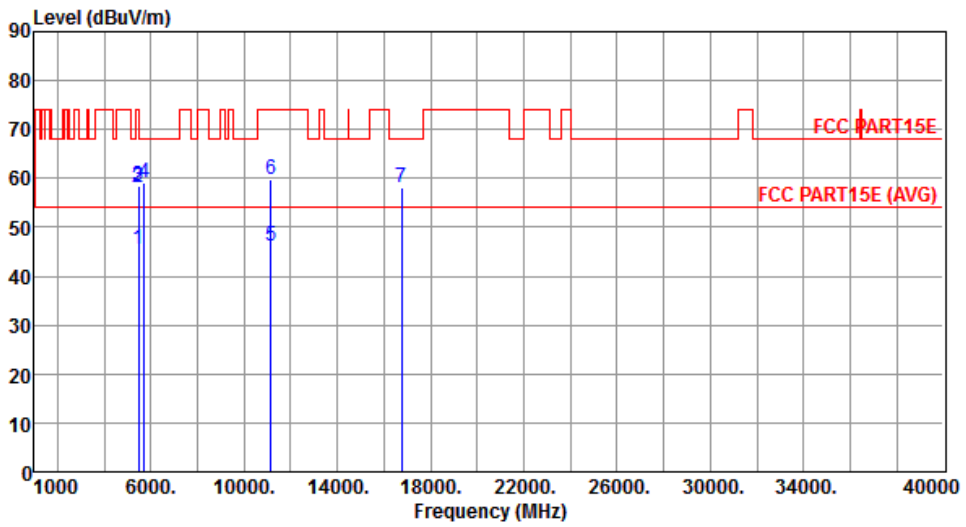
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.51	54.00	-7.49	40.15	6.36	Average	304	346
2	5460.00	59.34	74.00	-14.66	52.98	6.36	Peak	304	346
3	5470.00	59.68	68.20	-8.52	53.31	6.37	Peak	304	346
4	5725.00	60.03	68.20	-8.17	53.20	6.83	Peak	304	346
5	11160.00	46.35	54.00	-7.65	30.52	15.83	Average	309	349
6	11160.00	58.47	74.00	-15.53	42.64	15.83	Peak	309	349
7	16740.00	58.66	68.20	-9.54	41.86	16.80	Peak	293	336

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

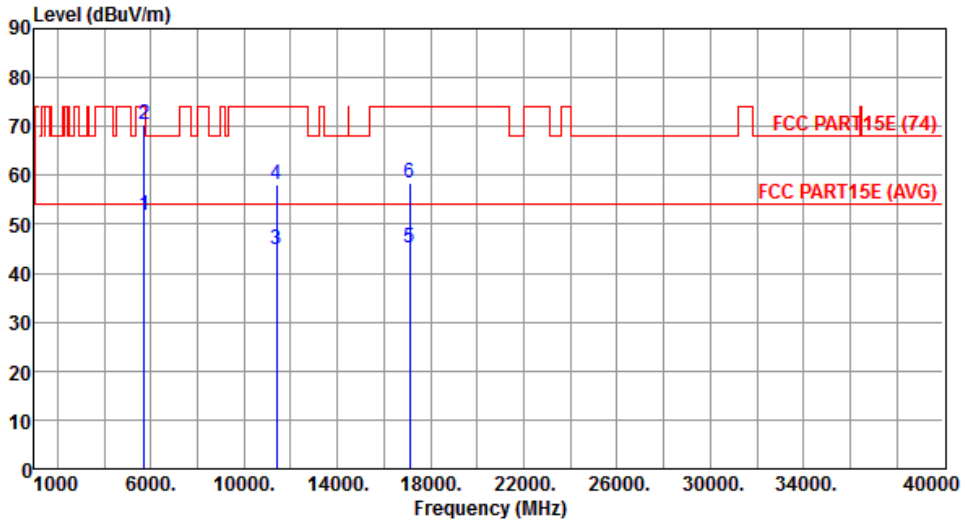
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.43	54.00	-8.57	39.07	6.36	Average	296	269
2	5460.00	58.06	74.00	-15.94	51.70	6.36	Peak	296	269
3	5470.00	58.61	68.20	-9.59	52.24	6.37	Peak	296	269
4	5725.00	59.12	68.20	-9.08	52.29	6.83	Peak	296	269
5	11160.00	46.22	54.00	-7.78	30.39	15.83	Average	206	244
6	11160.00	59.86	74.00	-14.14	44.03	15.83	Peak	206	244
7	16740.00	58.15	68.20	-10.05	41.35	16.80	Peak	203	259

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

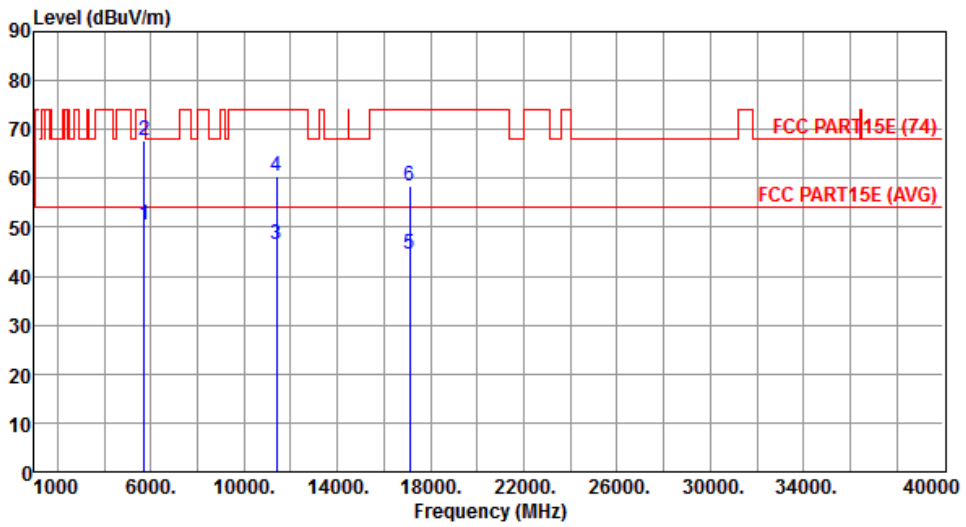
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	51.66	54.00	-2.34	44.83	6.83	Average	321	349
2	5725.00	70.39	74.00	-3.61	63.56	6.83	Peak	321	349
3	11400.00	44.95	54.00	-9.05	28.99	15.96	Average	304	341
4	11400.00	58.12	74.00	-15.88	42.16	15.96	Peak	304	341
5	17100.00	45.29	54.00	-8.71	27.33	17.96	Average	284	336
6	17100.00	58.47	74.00	-15.53	40.51	17.96	Peak	284	336

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

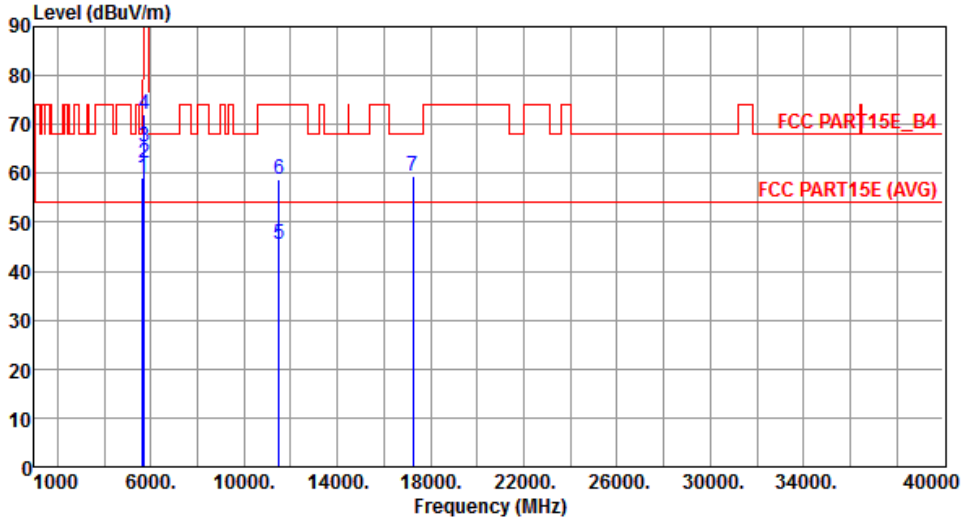
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	50.61	54.00	-3.39	43.78	6.83	Average	291	263
2	5725.00	67.86	74.00	-6.14	61.03	6.83	Peak	291	263
3	11400.00	46.49	54.00	-7.51	30.53	15.96	Average	206	251
4	11400.00	60.38	74.00	-13.62	44.42	15.96	Peak	206	251
5	17100.00	44.56	54.00	-9.44	26.60	17.96	Average	203	249
6	17100.00	58.39	74.00	-15.61	40.43	17.96	Peak	203	249

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

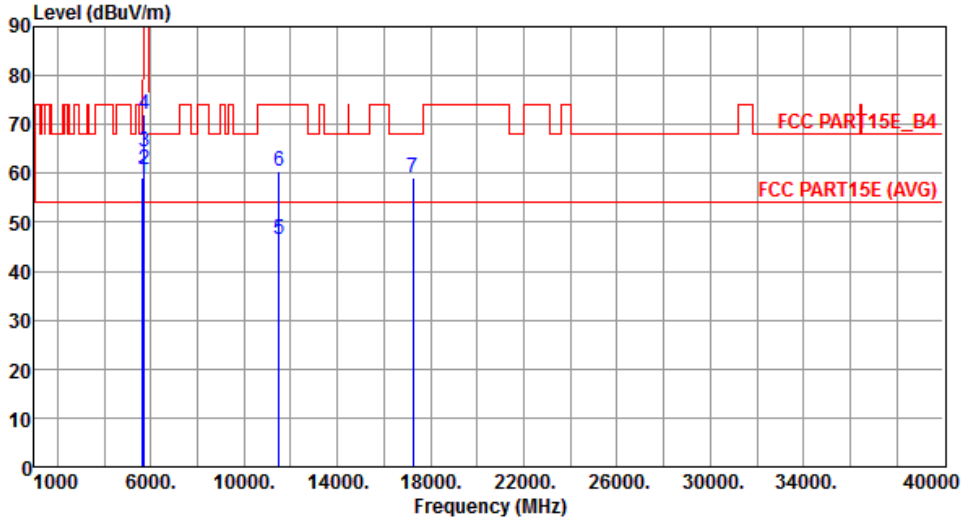
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.12	68.20	-9.08	52.49	6.63	Peak	321	350
2	5700.00	62.25	105.20	-42.95	55.48	6.77	Peak	321	350
3	5720.00	65.35	110.80	-45.45	58.53	6.82	Peak	321	350
4	5725.00	71.99	122.20	-50.21	65.16	6.83	Peak	321	350
5	11490.00	45.38	54.00	-8.62	29.37	16.01	Average	295	336
6	11490.00	58.62	74.00	-15.38	42.61	16.01	Peak	295	336
7	17235.00	59.45	68.20	-8.75	41.02	18.43	Peak	299	348

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

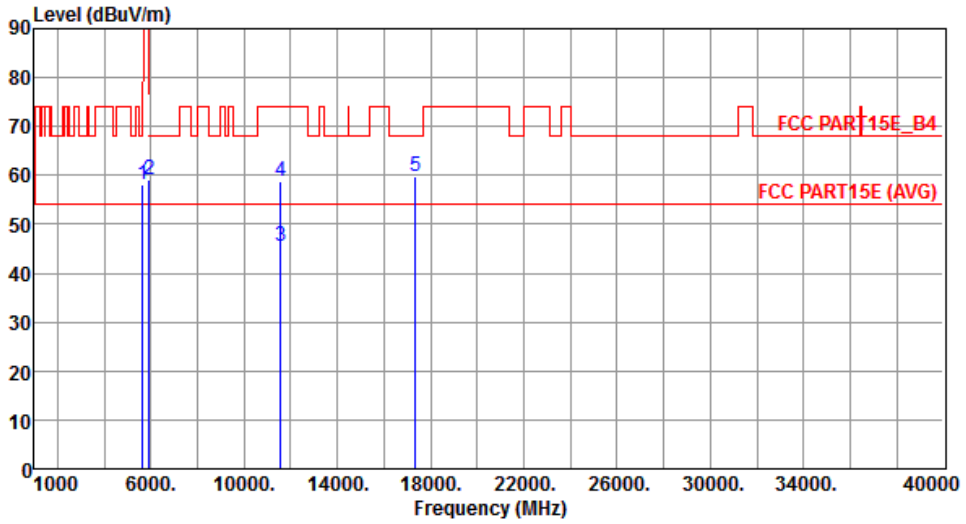
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.16	68.20	-9.04	52.53	6.63	Peak	288	265
2	5700.00	60.73	105.20	-44.47	53.96	6.77	Peak	288	265
3	5720.00	64.43	110.80	-46.37	57.61	6.82	Peak	288	265
4	5725.00	72.17	122.20	-50.03	65.34	6.83	Peak	288	265
5	11490.00	46.58	54.00	-7.42	30.57	16.01	Average	208	243
6	11490.00	60.47	74.00	-13.53	44.46	16.01	Peak	208	243
7	17235.00	58.96	68.20	-9.24	40.53	18.43	Peak	205	254

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

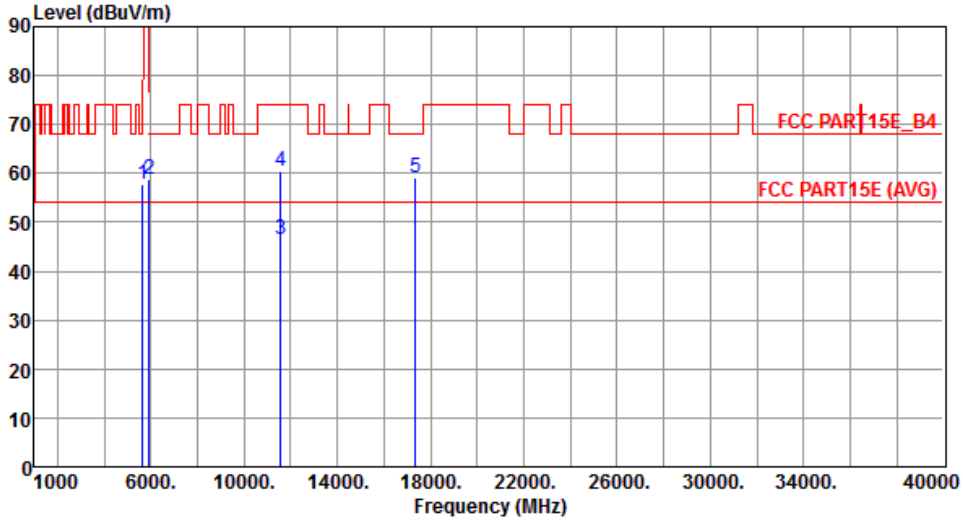
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.06	68.20	-10.14	51.43	6.63	Peak	320	349
2	5925.00	58.96	68.20	-9.24	51.62	7.34	Peak	320	349
3	11570.00	45.48	54.00	-8.52	29.59	15.89	Average	298	335
4	11570.00	58.72	74.00	-15.28	42.83	15.89	Peak	298	335
5	17355.00	59.68	68.20	-8.52	40.86	18.82	Peak	301	349

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

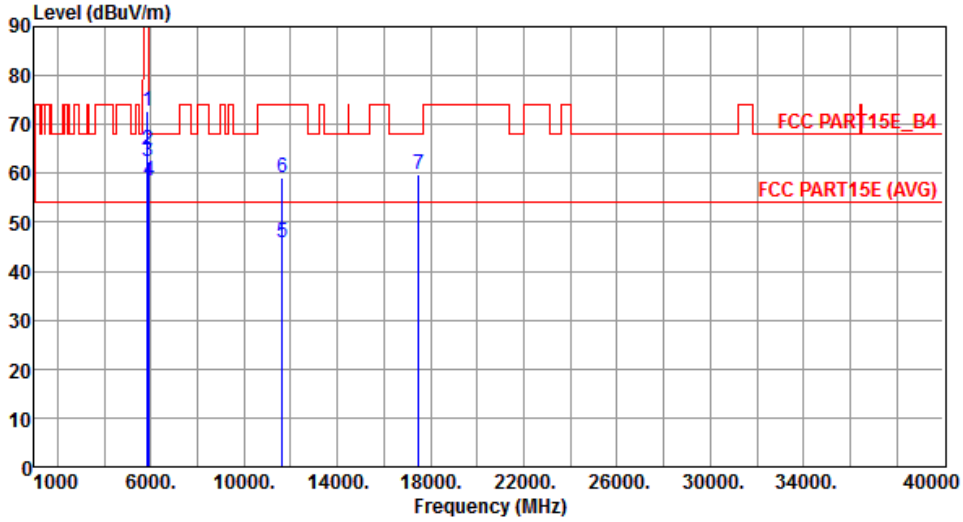
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.92	68.20	-10.28	51.29	6.63	Peak	291	265
2	5925.00	58.77	68.20	-9.43	51.43	7.34	Peak	291	265
3	11570.00	46.41	54.00	-7.59	30.52	15.89	Average	210	245
4	11570.00	60.35	74.00	-13.65	44.46	15.89	Peak	210	245
5	17355.00	59.15	68.20	-9.05	40.33	18.82	Peak	208	261

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

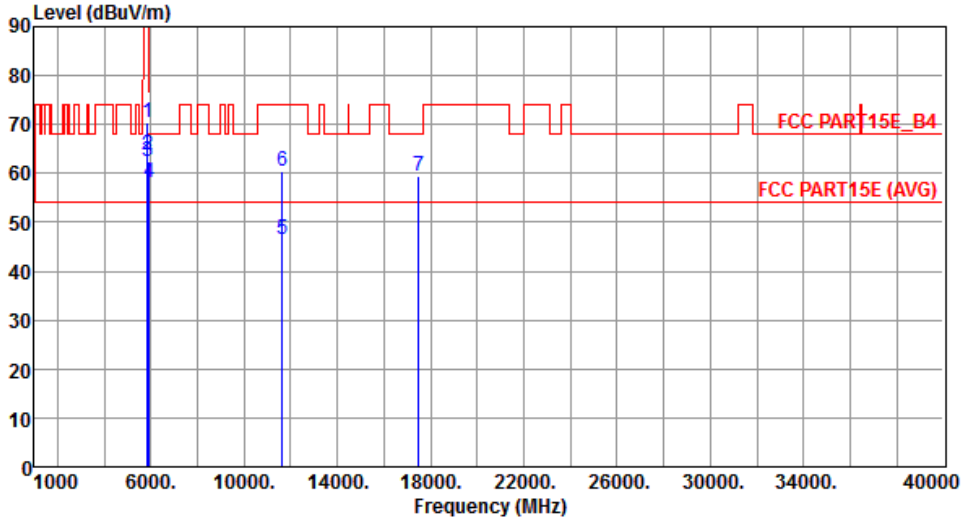
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	72.57	122.20	-49.63	65.41	7.16	Peak	321	349
2	5855.00	64.60	110.80	-46.20	57.42	7.18	Peak	321	349
3	5875.00	62.46	105.20	-42.74	55.23	7.23	Peak	321	349
4	5925.00	58.31	68.20	-9.89	50.97	7.34	Peak	321	349
5	11650.00	45.94	54.00	-8.06	30.20	15.74	Average	303	339
6	11650.00	59.21	74.00	-14.79	43.47	15.74	Peak	303	339
7	17475.00	59.84	68.20	-8.36	40.61	19.23	Peak	303	352

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

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

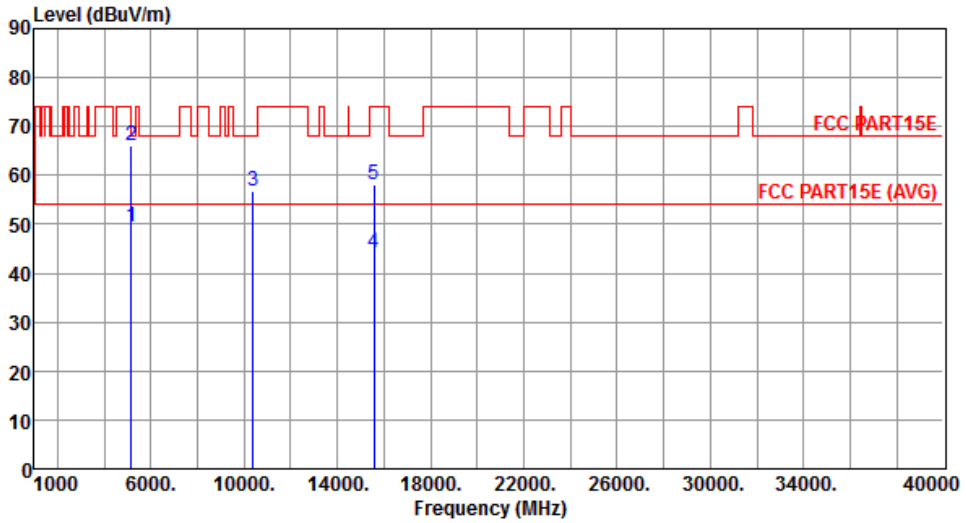


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	70.37	122.20	-51.83	63.21	7.16	Peak	293	261
2	5855.00	63.89	110.80	-46.91	56.71	7.18	Peak	293	261
3	5875.00	62.56	105.20	-42.64	55.33	7.23	Peak	293	261
4	5925.00	58.21	68.20	-9.99	50.87	7.34	Peak	293	261
5	11650.00	46.52	54.00	-7.48	30.78	15.74	Average	213	256
6	11650.00	60.48	74.00	-13.52	44.74	15.74	Peak	213	256
7	17475.00	59.42	68.20	-8.78	40.19	19.23	Peak	210	257

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

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

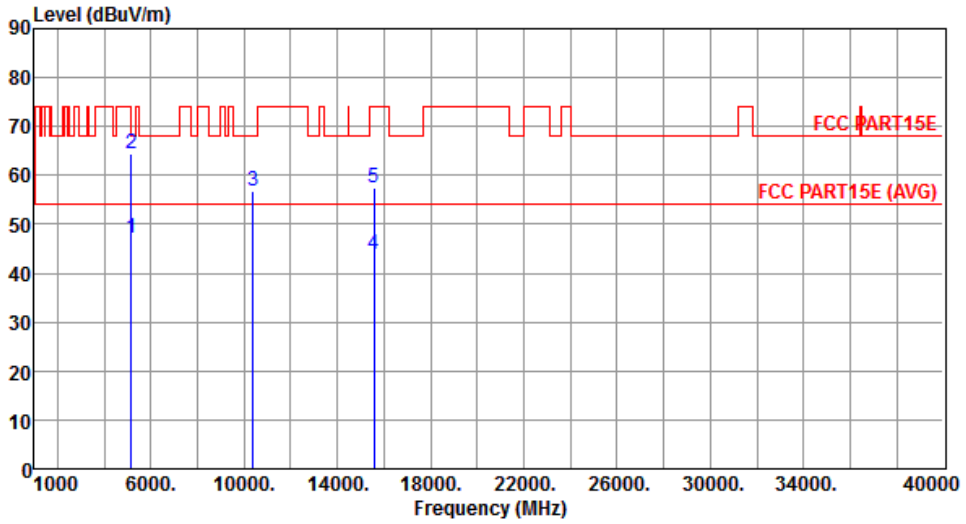
Modulation	VHT40	**Test Freq. (MHz)**	5190
Polarization	Horizontal		



	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	49.35	54.00	-4.65	43.48	5.87	Average	248	313
2	5150.00	66.08	74.00	-7.92	60.21	5.87	Peak	248	313
3	10380.00	56.95	68.20	-11.25	41.70	15.25	Peak	211	265
4	15570.00	44.02	54.00	-9.98	27.98	16.04	Average	203	255
5	15570.00	58.16	74.00	-15.84	42.12	16.04	Peak	203	255

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

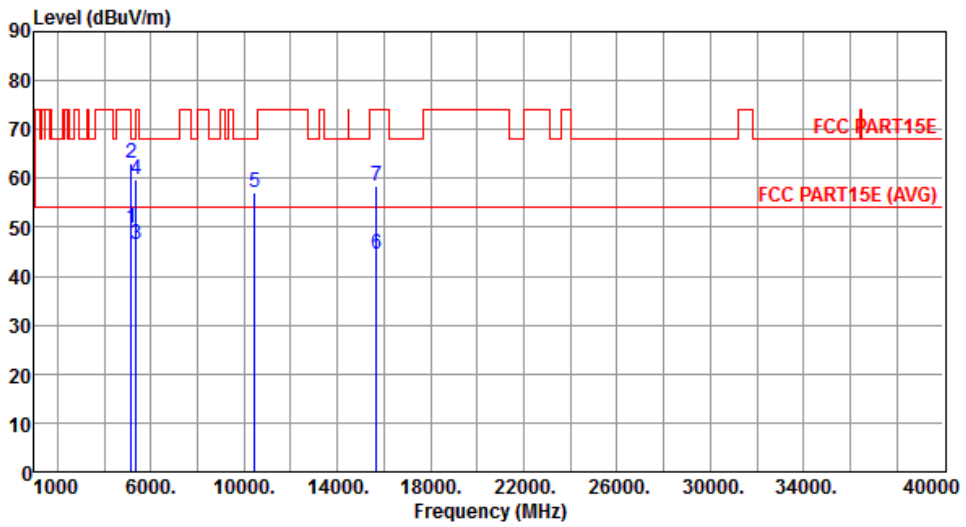
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.21	54.00	-6.79	41.34	5.87	Average	302	265
2	5150.00	64.32	74.00	-9.68	58.45	5.87	Peak	302	265
3	10380.00	56.81	68.20	-11.39	41.56	15.25	Peak	207	244
4	15570.00	43.68	54.00	-10.32	27.64	16.04	Average	191	253
5	15570.00	57.45	74.00	-16.55	41.41	16.04	Peak	191	253

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

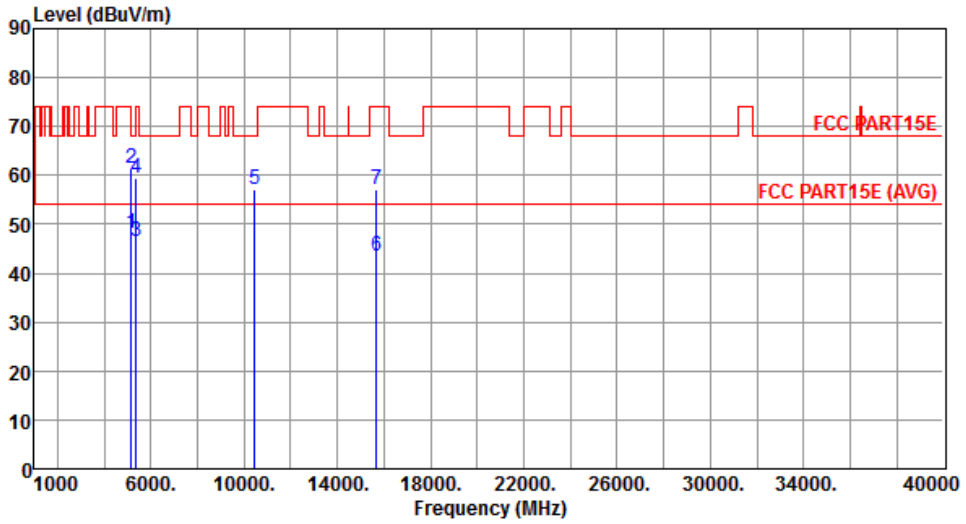
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.65	54.00	-4.35	43.78	5.87	Average	247	313
2	5150.00	62.98	74.00	-11.02	57.11	5.87	Peak	247	313
3	5350.00	46.57	54.00	-7.43	40.36	6.21	Average	247	313
4	5350.00	59.70	74.00	-14.30	53.49	6.21	Peak	247	313
5	10460.00	57.24	68.20	-10.96	41.90	15.34	Peak	203	258
6	15690.00	44.36	54.00	-9.64	28.47	15.89	Average	206	261
7	15690.00	58.45	74.00	-15.55	42.56	15.89	Peak	206	261

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

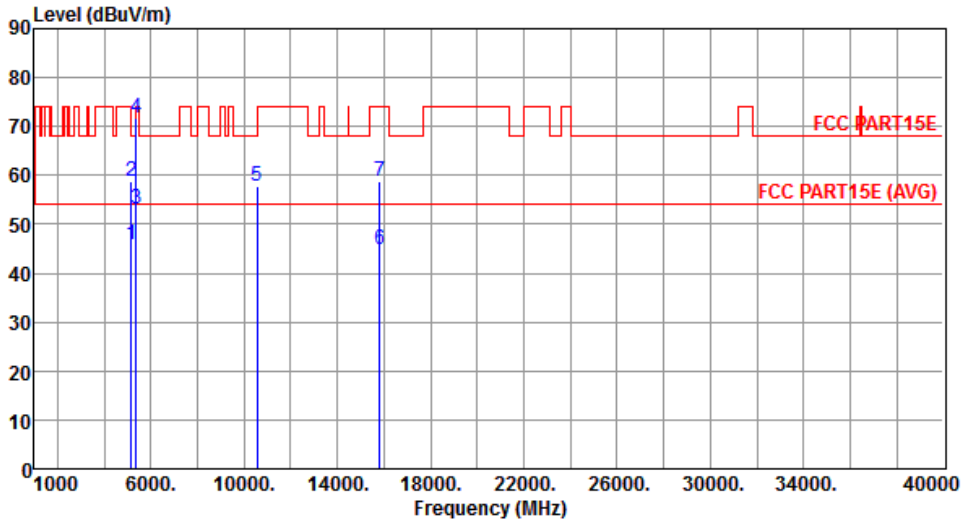
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.25	54.00	-5.75	42.38	5.87	Average	305	259
2	5150.00	61.54	74.00	-12.46	55.67	5.87	Peak	305	259
3	5350.00	46.66	54.00	-7.34	40.45	6.21	Average	305	259
4	5350.00	59.43	74.00	-14.57	53.22	6.21	Peak	305	259
5	10460.00	57.11	68.20	-11.09	41.77	15.34	Peak	211	259
6	15690.00	43.51	54.00	-10.49	27.62	15.89	Average	189	255
7	15690.00	57.26	74.00	-16.74	41.37	15.89	Peak	189	255

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

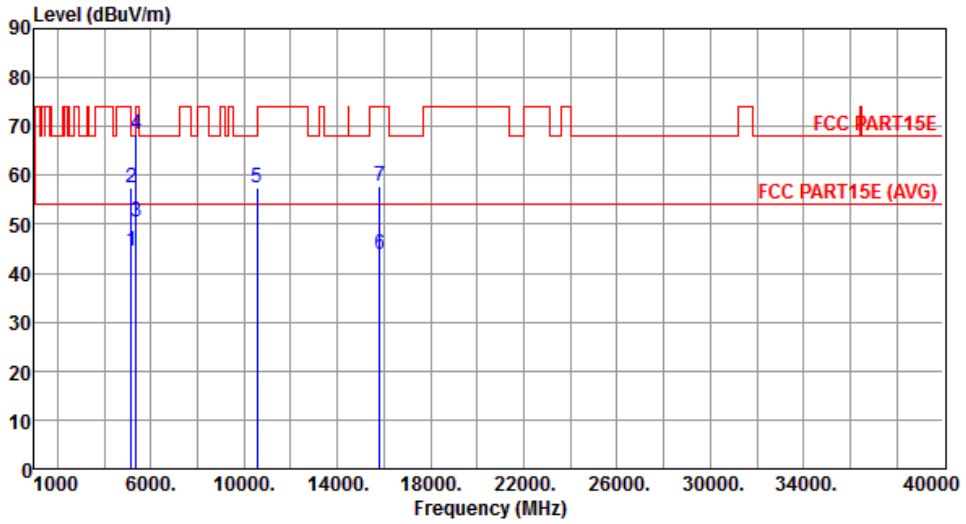
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	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	45.93	54.00	-8.07	40.06	5.87	Average	248	313
2	5150.00	58.78	74.00	-15.22	52.91	5.87	Peak	248	313
3	5350.00	52.99	54.00	-1.01	46.78	6.21	Average	248	313
4	5350.00	71.82	74.00	-2.18	65.61	6.21	Peak	248	313
5	10540.00	57.65	68.20	-10.55	42.23	15.42	Peak	202	281
6	15810.00	44.69	54.00	-9.31	28.94	15.75	Average	210	274
7	15810.00	58.67	74.00	-15.33	42.92	15.75	Peak	210	274

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

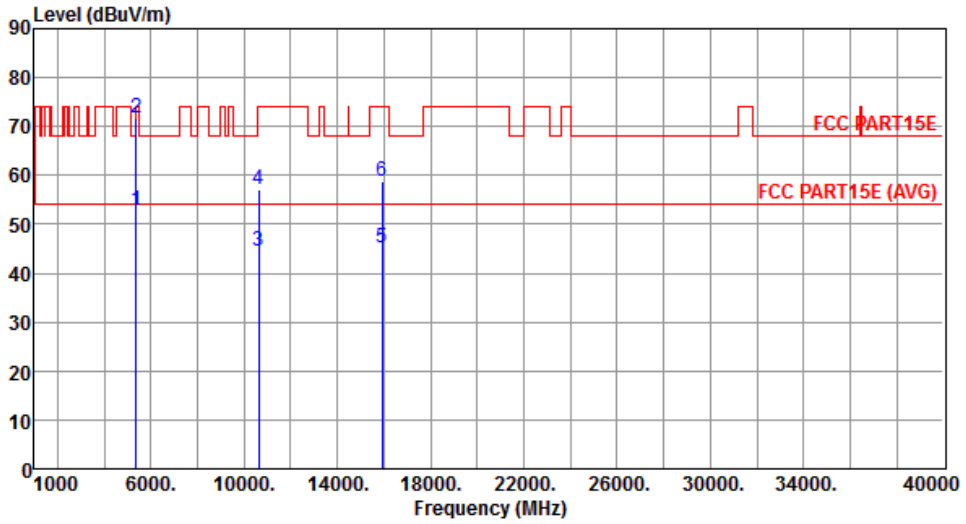
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	44.62	54.00	-9.38	38.75	5.87	Average	308	261
2	5150.00	57.51	74.00	-16.49	51.64	5.87	Peak	308	261
3	5350.00	50.62	54.00	-3.38	44.41	6.21	Average	308	261
4	5350.00	68.51	74.00	-5.49	62.30	6.21	Peak	308	261
5	10540.00	57.45	68.20	-10.75	42.03	15.42	Peak	209	263
6	15810.00	43.86	54.00	-10.14	28.11	15.75	Average	193	264
7	15810.00	57.65	74.00	-16.35	41.90	15.75	Peak	193	264

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

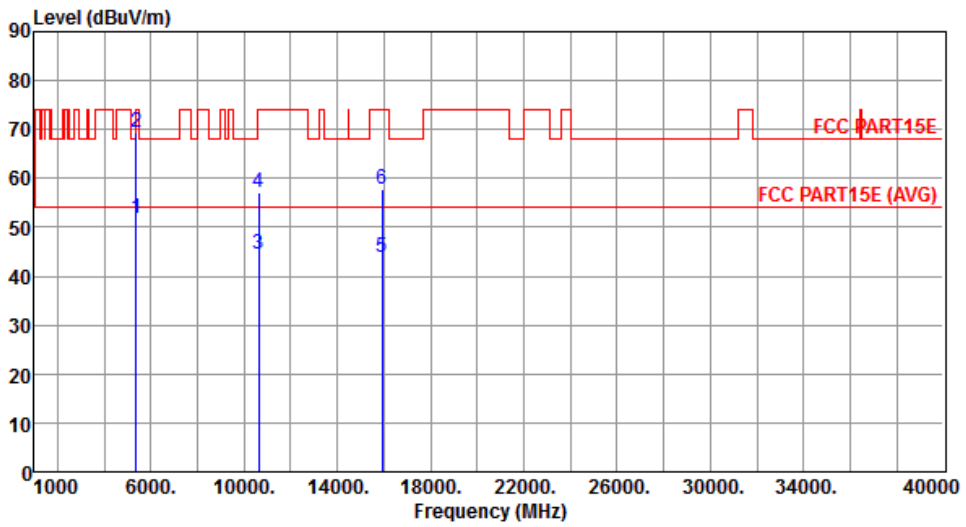
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.95	54.00	-1.05	46.74	6.21	Average	248	312
2	5350.00	71.66	74.00	-2.34	65.45	6.21	Peak	248	312
3	10620.00	44.39	54.00	-9.61	28.91	15.48	Average	208	293
4	10620.00	57.16	74.00	-16.84	41.68	15.48	Peak	208	293
5	15930.00	45.02	54.00	-8.98	29.42	15.60	Average	210	298
6	15930.00	58.93	74.00	-15.07	43.33	15.60	Peak	210	298

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

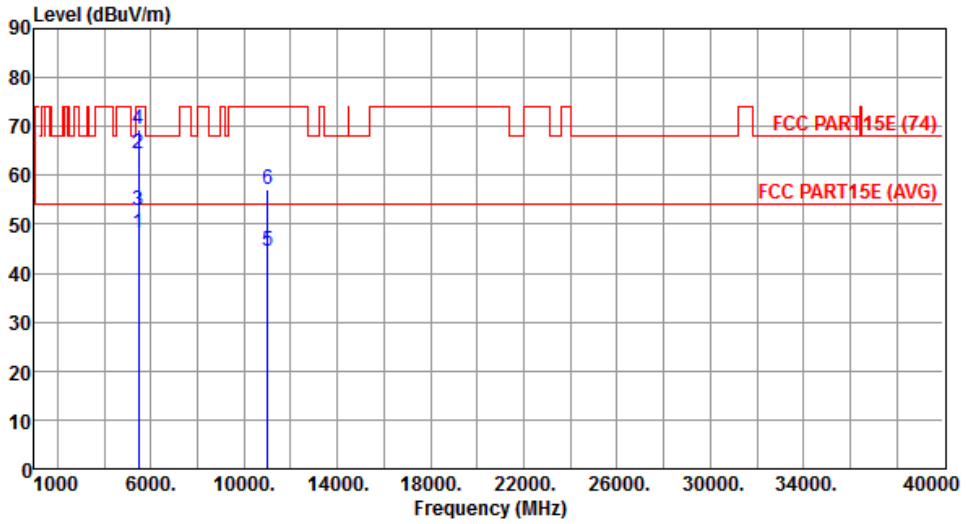
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	51.86	54.00	-2.14	45.65	6.21	Average	309	265
2	5350.00	69.44	74.00	-4.56	63.23	6.21	Peak	309	265
3	10620.00	44.51	54.00	-9.49	29.03	15.48	Average	210	284
4	10620.00	57.23	74.00	-16.77	41.75	15.48	Peak	210	284
5	15930.00	43.98	54.00	-10.02	28.38	15.60	Average	195	256
6	15930.00	57.84	74.00	-16.16	42.24	15.60	Peak	195	256

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

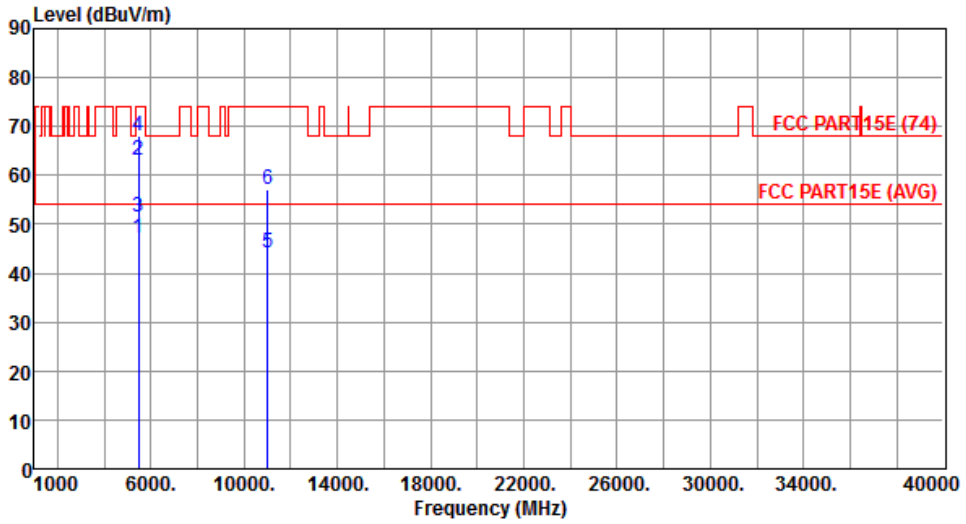
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.20	54.00	-5.80	41.84	6.36	Average	248	321
2	5460.00	64.45	74.00	-9.55	58.09	6.36	Peak	248	321
3	5470.00	52.92	54.00	-1.08	46.55	6.37	Average	248	321
4	5470.00	69.29	74.00	-4.71	62.92	6.37	Peak	248	321
5	11020.00	44.65	54.00	-9.35	28.90	15.75	Average	193	264
6	11020.00	57.28	74.00	-16.72	41.53	15.75	Peak	193	264

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

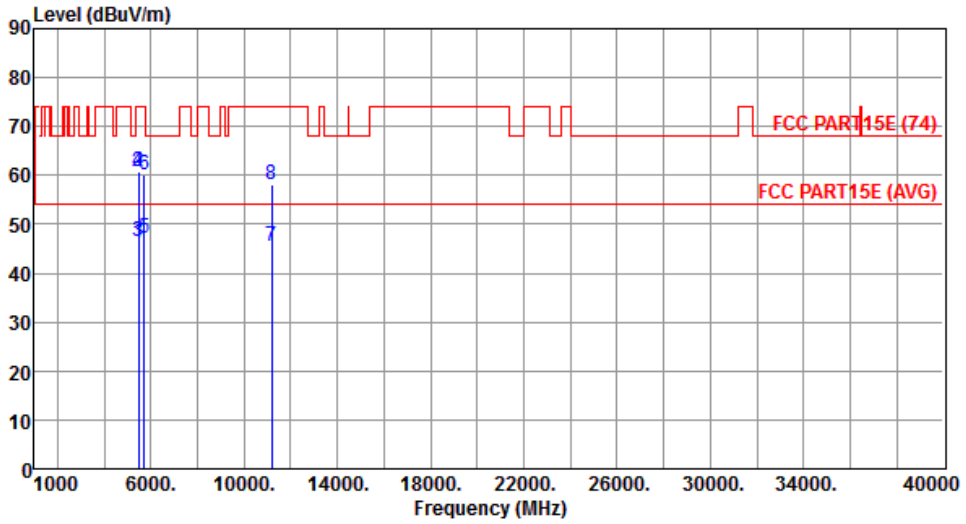
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.12	54.00	-6.88	40.76	6.36	Average	306	264
2	5460.00	63.15	74.00	-10.85	56.79	6.36	Peak	306	264
3	5470.00	51.42	54.00	-2.58	45.05	6.37	Average	306	264
4	5470.00	68.24	74.00	-5.76	61.87	6.37	Peak	306	264
5	11020.00	44.23	54.00	-9.77	28.48	15.75	Average	205	291
6	11020.00	57.06	74.00	-16.94	41.31	15.75	Peak	205	291

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

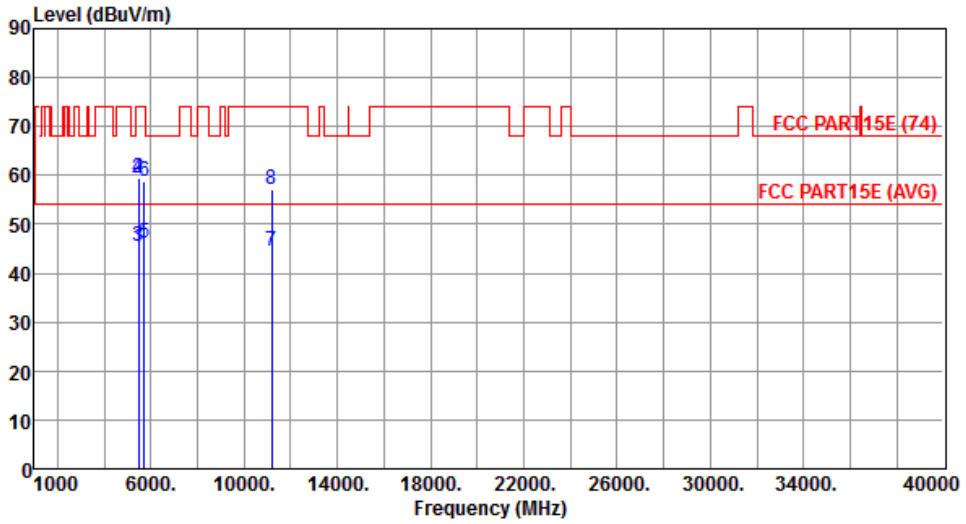
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		



	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	46.25	54.00	-7.75	39.89	6.36	Average	249	321
2	5460.00	60.71	74.00	-13.29	54.35	6.36	Peak	249	321
3	5470.00	46.58	54.00	-7.42	40.21	6.37	Average	249	321
4	5470.00	60.86	74.00	-13.14	54.49	6.37	Peak	249	321
5	5725.00	47.21	54.00	-6.79	40.38	6.83	Average	249	321
6	5725.00	60.18	74.00	-13.82	53.35	6.83	Peak	249	321
7	11180.00	45.36	54.00	-8.64	29.52	15.84	Average	189	227
8	11180.00	58.02	74.00	-15.98	42.18	15.84	Peak	189	227

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

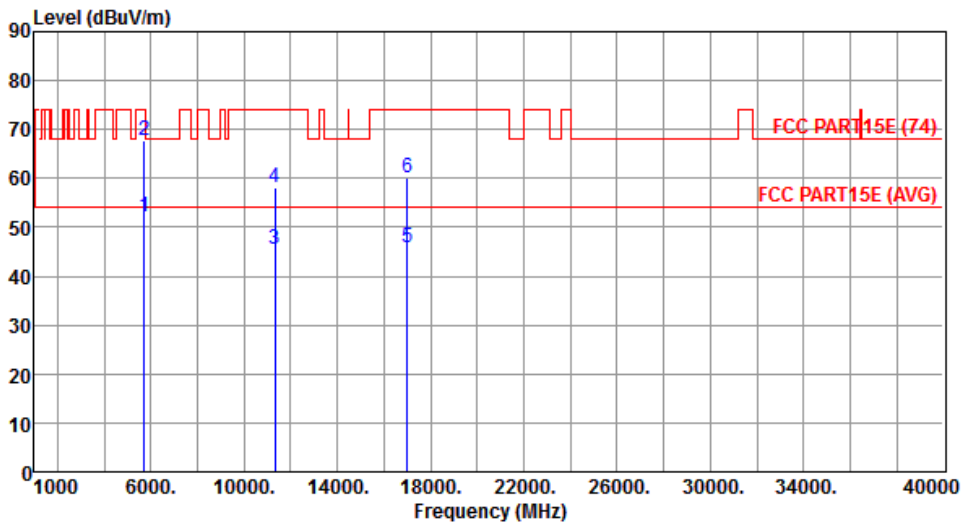
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.02	54.00	-8.98	38.66	6.36	Average	303	265
2	5460.00	59.31	74.00	-14.69	52.95	6.36	Peak	303	265
3	5470.00	45.63	54.00	-8.37	39.26	6.37	Average	303	265
4	5470.00	59.48	74.00	-14.52	53.11	6.37	Peak	303	265
5	5725.00	46.13	54.00	-7.87	39.30	6.83	Average	303	265
6	5725.00	58.65	74.00	-15.35	51.82	6.83	Peak	303	265
7	11180.00	44.39	54.00	-9.61	28.55	15.84	Average	201	309
8	11180.00	57.11	74.00	-16.89	41.27	15.84	Peak	201	309

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

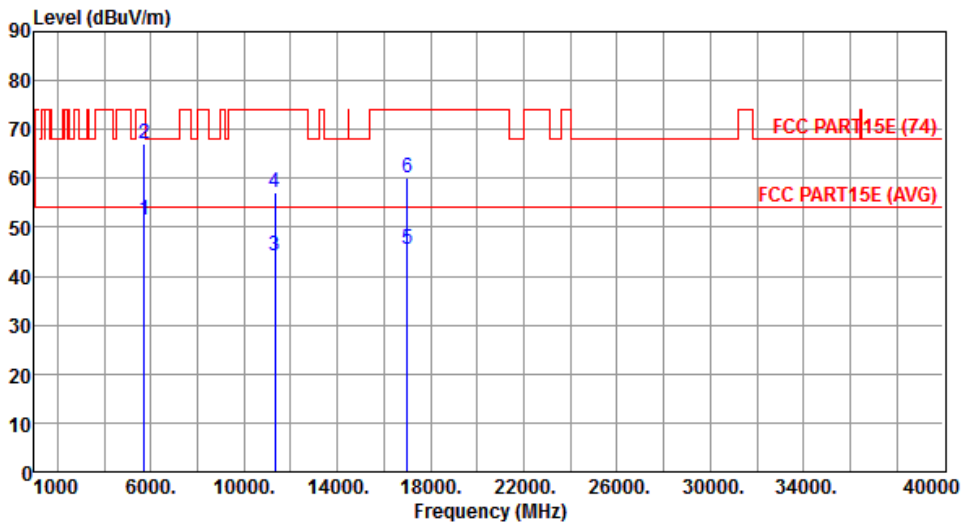
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.18	54.00	-1.82	45.35	6.83	Average	240	326
2	5725.00	67.83	74.00	-6.17	61.00	6.83	Peak	240	326
3	11340.00	45.61	54.00	-8.39	29.68	15.93	Average	176	243
4	11340.00	57.96	74.00	-16.04	42.03	15.93	Peak	176	243
5	17010.00	45.84	54.00	-8.16	28.19	17.65	Average	182	256
6	17010.00	60.23	74.00	-13.77	42.58	17.65	Peak	182	256

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

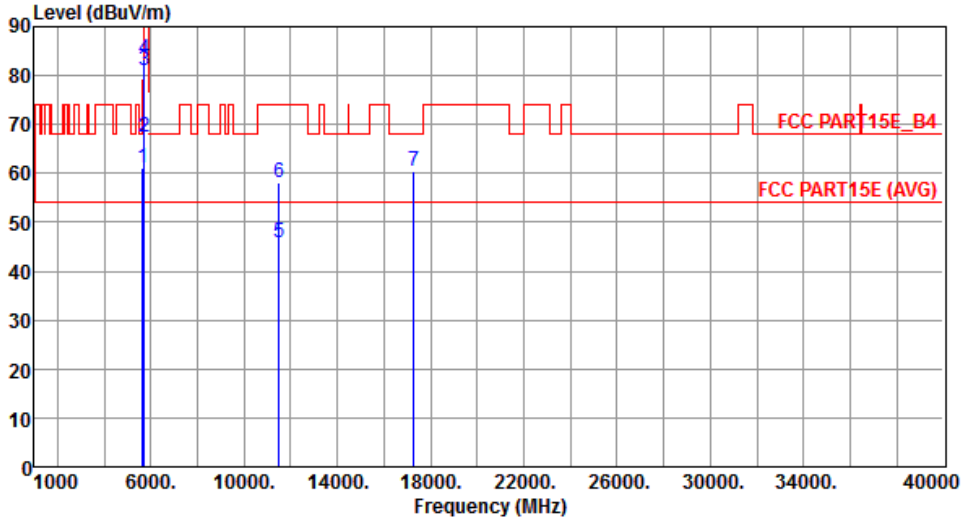
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	51.44	54.00	-2.56	44.61	6.83	Average	308	269
2	5725.00	66.95	74.00	-7.05	60.12	6.83	Peak	308	269
3	11340.00	44.16	54.00	-9.84	28.23	15.93	Average	204	215
4	11340.00	57.04	74.00	-16.96	41.11	15.93	Peak	204	215
5	17010.00	45.36	54.00	-8.64	27.71	17.65	Average	208	239
6	17010.00	60.18	74.00	-13.82	42.53	17.65	Peak	208	239

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

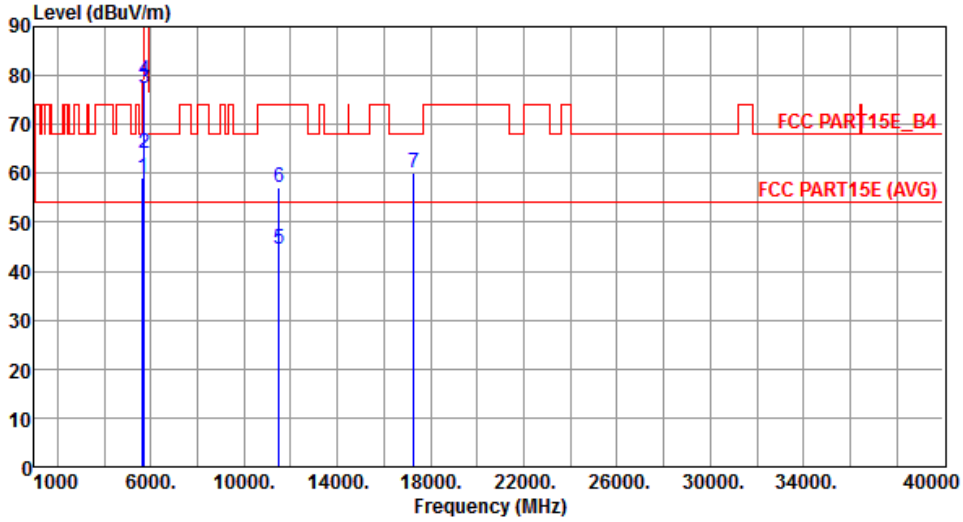
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.21	68.20	-6.99	54.58	6.63	Peak	240	323
2	5700.00	67.52	105.20	-37.68	60.75	6.77	Peak	240	323
3	5720.00	81.00	110.80	-29.80	74.18	6.82	Peak	240	323
4	5725.00	83.28	122.20	-38.92	76.45	6.83	Peak	240	323
5	11510.00	45.88	54.00	-8.12	29.88	16.00	Average	183	259
6	11510.00	58.26	74.00	-15.74	42.26	16.00	Peak	183	259
7	17265.00	60.49	68.20	-7.71	41.98	18.51	Peak	184	229

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

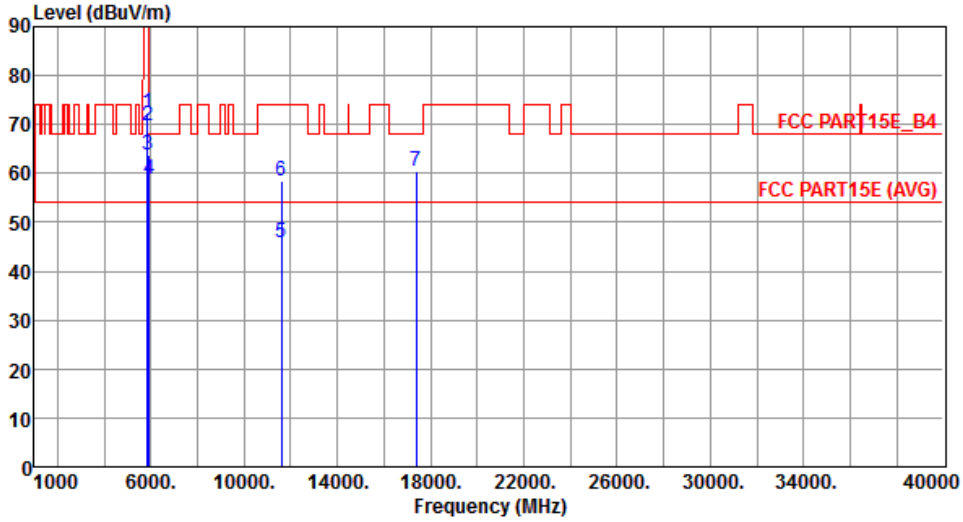
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.25	68.20	-8.95	52.62	6.63	Peak	310	262
2	5700.00	64.19	105.20	-41.01	57.42	6.77	Peak	310	262
3	5720.00	77.25	110.80	-33.55	70.43	6.82	Peak	310	262
4	5725.00	79.08	122.20	-43.12	72.25	6.83	Peak	310	262
5	11510.00	44.38	54.00	-9.62	28.38	16.00	Average	209	283
6	11510.00	57.26	74.00	-16.74	41.26	16.00	Peak	209	283
7	17265.00	60.04	68.20	-8.16	41.53	18.51	Peak	201	218

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

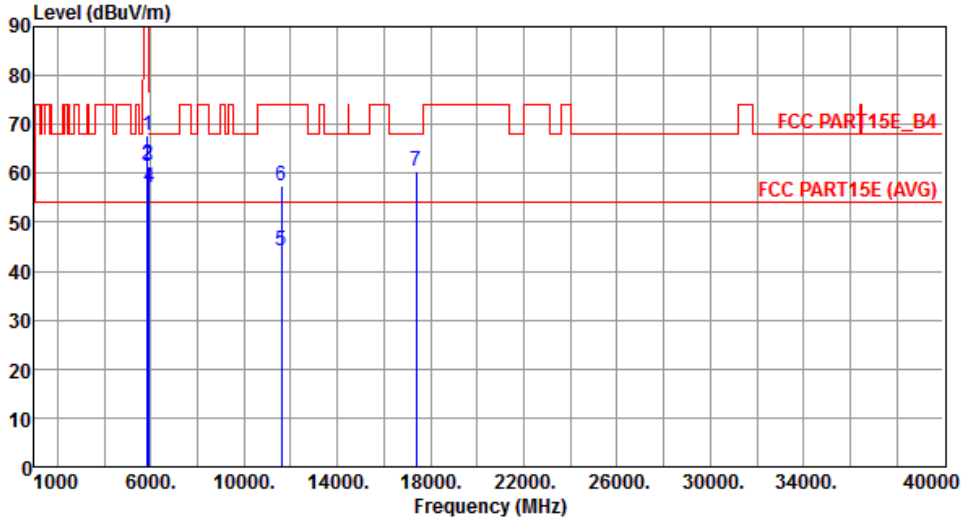
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	72.31	122.20	-49.89	65.15	7.16	Peak	240	321
2	5855.00	69.60	110.80	-41.20	62.42	7.18	Peak	240	321
3	5875.00	63.70	105.20	-41.50	56.47	7.23	Peak	240	321
4	5925.00	58.92	68.20	-9.28	51.58	7.34	Peak	240	321
5	11590.00	45.95	54.00	-8.05	30.10	15.85	Average	188	267
6	11590.00	58.42	74.00	-15.58	42.57	15.85	Peak	188	267
7	17385.00	60.59	68.20	-7.61	41.66	18.93	Peak	188	234

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

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

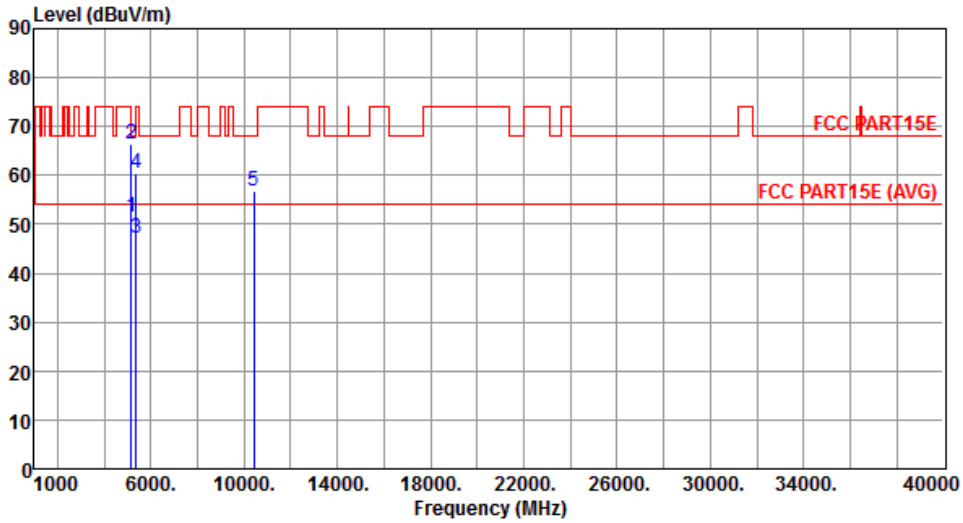


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	67.82	122.20	-54.38	60.66	7.16	Peak	311	265
2	5855.00	61.78	110.80	-49.02	54.60	7.18	Peak	311	265
3	5875.00	61.57	105.20	-43.63	54.34	7.23	Peak	311	265
4	5925.00	57.24	68.20	-10.96	49.90	7.34	Peak	311	265
5	11590.00	44.12	54.00	-9.88	28.27	15.85	Average	202	271
6	11590.00	57.59	74.00	-16.41	41.74	15.85	Peak	202	271
7	17385.00	60.45	68.20	-7.75	41.52	18.93	Peak	194	253

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

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

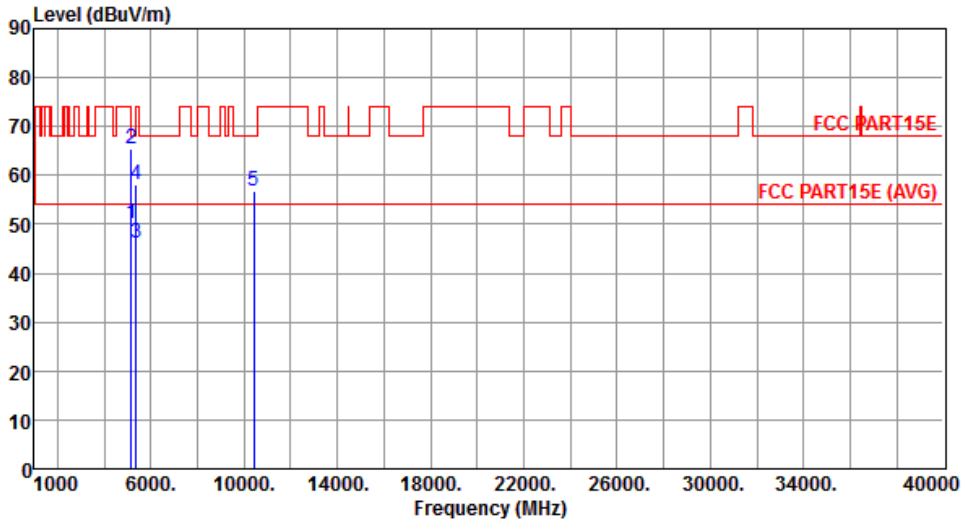
Modulation	VHT80	**Test Freq. (MHz)**	5210
Polarization	Horizontal		



	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	51.37	54.00	-2.63	45.50	5.87	Average	287	314
2	5150.00	66.48	74.00	-7.52	60.61	5.87	Peak	287	314
3	5350.00	47.29	54.00	-6.71	41.08	6.21	Average	287	314
4	5350.00	60.60	74.00	-13.40	54.39	6.21	Peak	287	314
5	10420.00	56.84	68.20	-11.36	41.54	15.30	Peak	205	254

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

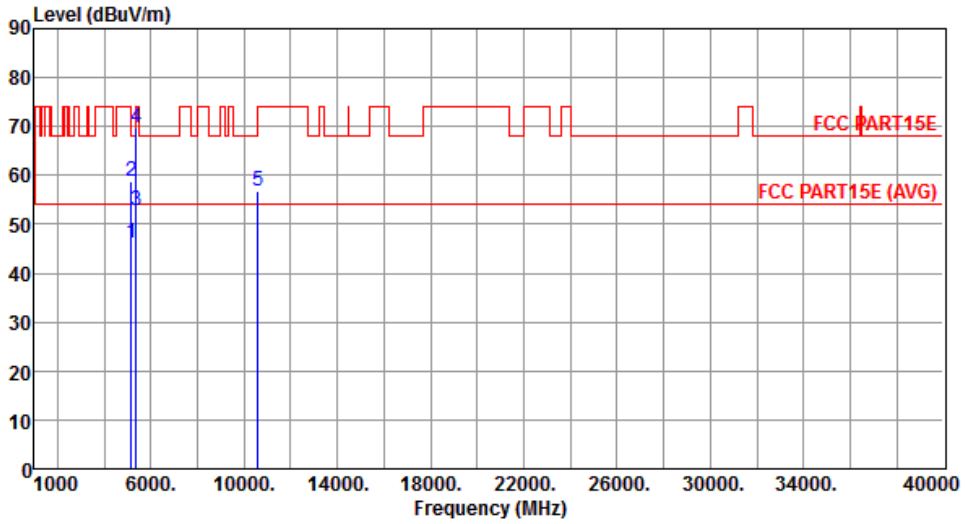
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		



	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	50.24	54.00	-3.76	44.37	5.87	Average	297	261
2	5150.00	65.31	74.00	-8.69	59.44	5.87	Peak	297	261
3	5350.00	46.03	54.00	-7.97	39.82	6.21	Average	297	261
4	5350.00	58.14	74.00	-15.86	51.93	6.21	Peak	297	261
5	10420.00	56.74	68.20	-11.46	41.44	15.30	Peak	205	259

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

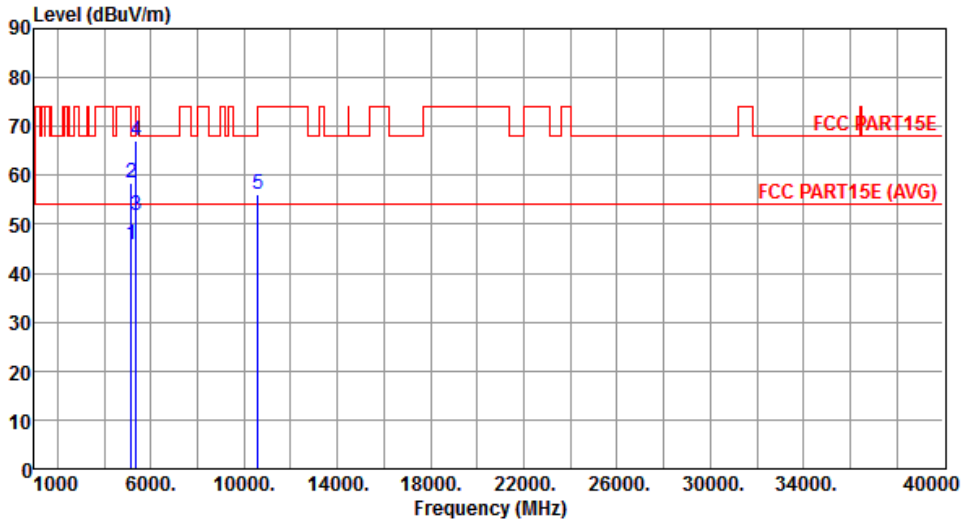
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		



	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	46.13	54.00	-7.87	40.26	5.87	Average	287	315
2	5150.00	58.67	74.00	-15.33	52.80	5.87	Peak	287	315
3	5350.00	52.95	54.00	-1.05	46.74	6.21	Average	287	315
4	5350.00	69.58	74.00	-4.42	63.37	6.21	Peak	287	315
5	10580.00	56.69	68.20	-11.51	41.25	15.44	Peak	208	257

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

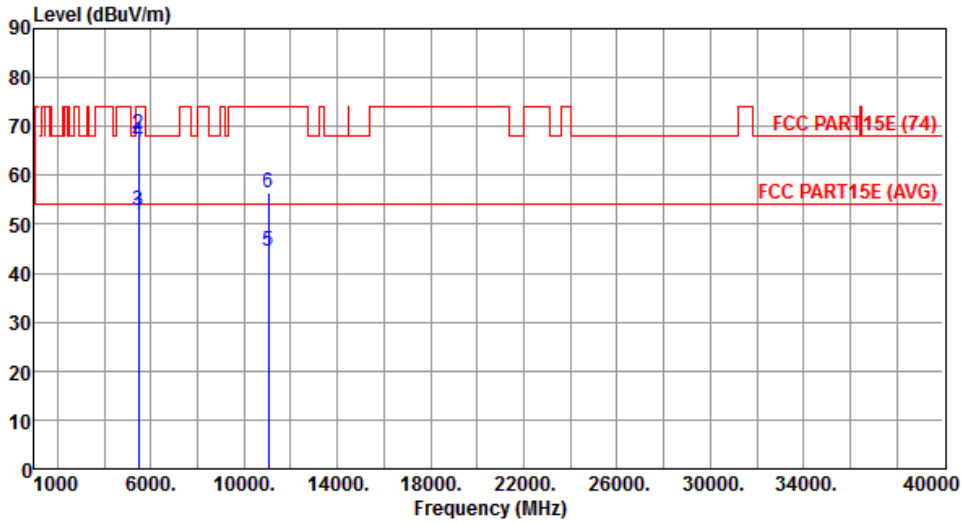
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.82	54.00	-8.18	39.95	5.87	Average	291	264
2	5150.00	58.61	74.00	-15.39	52.74	5.87	Peak	291	264
3	5350.00	51.66	54.00	-2.34	45.45	6.21	Average	291	264
4	5350.00	67.24	74.00	-6.76	61.03	6.21	Peak	291	264
5	10580.00	56.25	68.20	-11.95	40.81	15.44	Peak	209	266

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

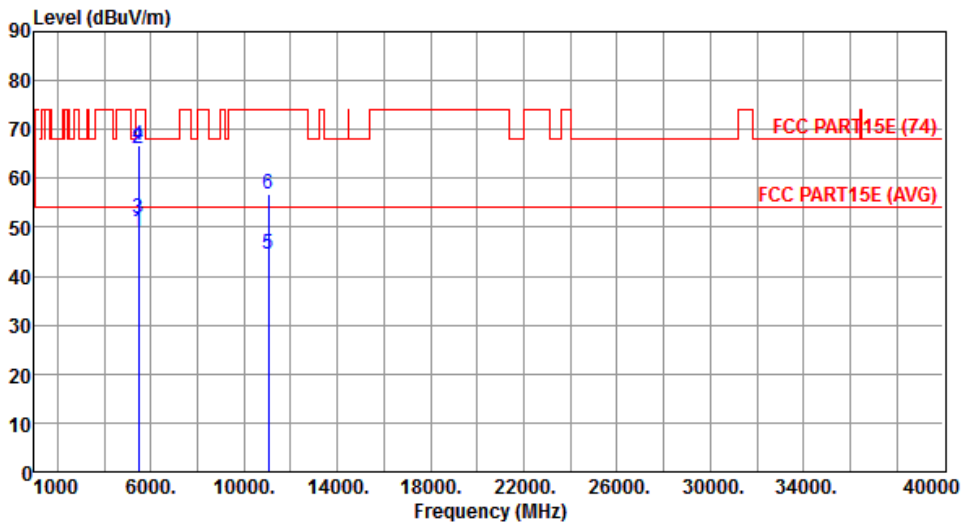
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	51.88	54.00	-2.12	45.52	6.36	Average	266	313
2	5460.00	68.51	74.00	-5.49	62.15	6.36	Peak	266	313
3	5470.00	52.94	54.00	-1.06	46.57	6.37	Average	266	313
4	5470.00	66.80	74.00	-7.20	60.43	6.37	Peak	266	313
5	11060.00	44.35	54.00	-9.65	28.58	15.77	Average	210	261
6	11060.00	56.41	74.00	-17.59	40.64	15.77	Peak	210	261

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

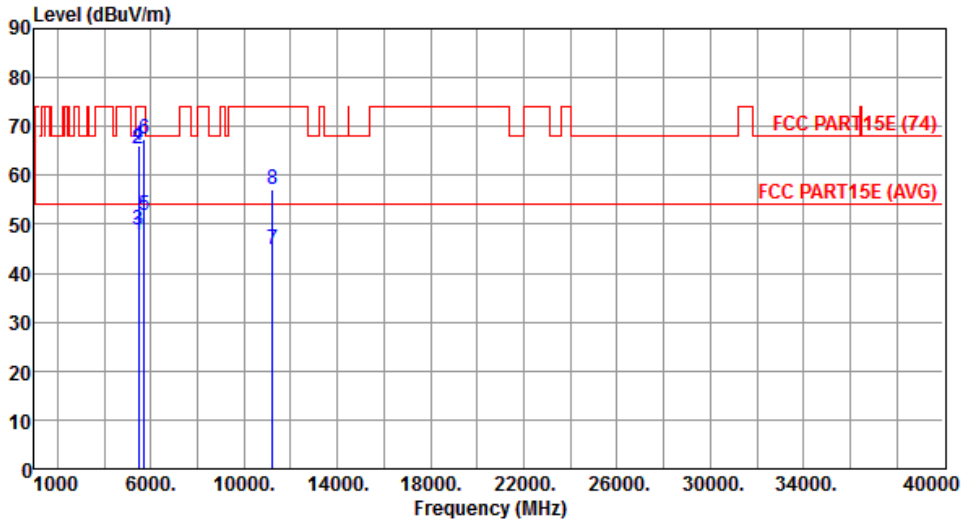
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.02	54.00	-4.98	42.66	6.36	Average	293	264
2	5460.00	66.15	74.00	-7.85	59.79	6.36	Peak	293	264
3	5470.00	51.84	54.00	-2.16	45.47	6.37	Average	293	264
4	5470.00	66.59	74.00	-7.41	60.22	6.37	Peak	293	264
5	11060.00	44.38	54.00	-9.62	28.61	15.77	Average	234	301
6	11060.00	56.72	74.00	-17.28	40.95	15.77	Peak	234	301

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

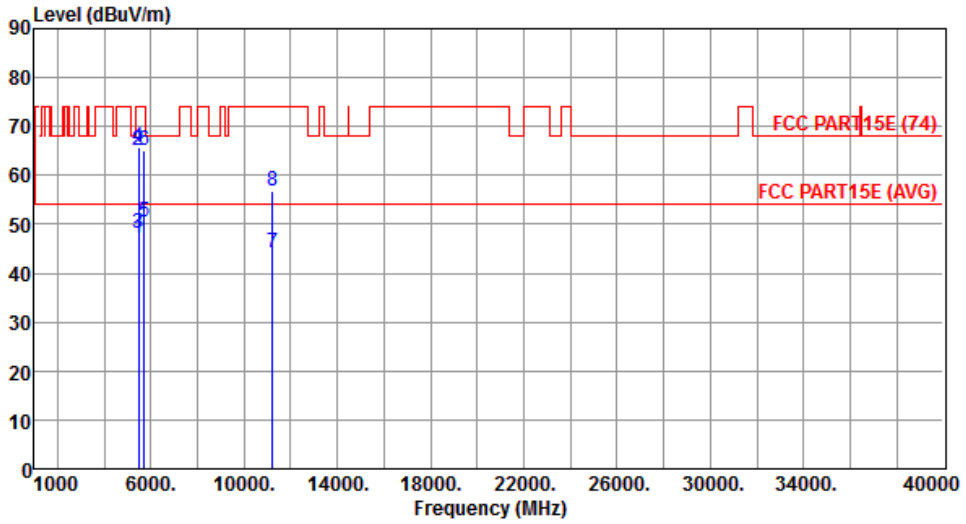
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.89	54.00	-6.11	41.53	6.36	Average	266	314
2	5460.00	65.52	74.00	-8.48	59.16	6.36	Peak	266	314
3	5470.00	48.91	54.00	-5.09	42.54	6.37	Average	266	314
4	5470.00	66.24	74.00	-7.76	59.87	6.37	Peak	266	314
5	5725.00	51.93	54.00	-2.07	45.10	6.83	Average	266	314
6	5725.00	67.26	74.00	-6.74	60.43	6.83	Peak	266	314
7	11220.00	44.89	54.00	-9.11	29.03	15.86	Average	211	261
8	11220.00	57.22	74.00	-16.78	41.36	15.86	Peak	211	261

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

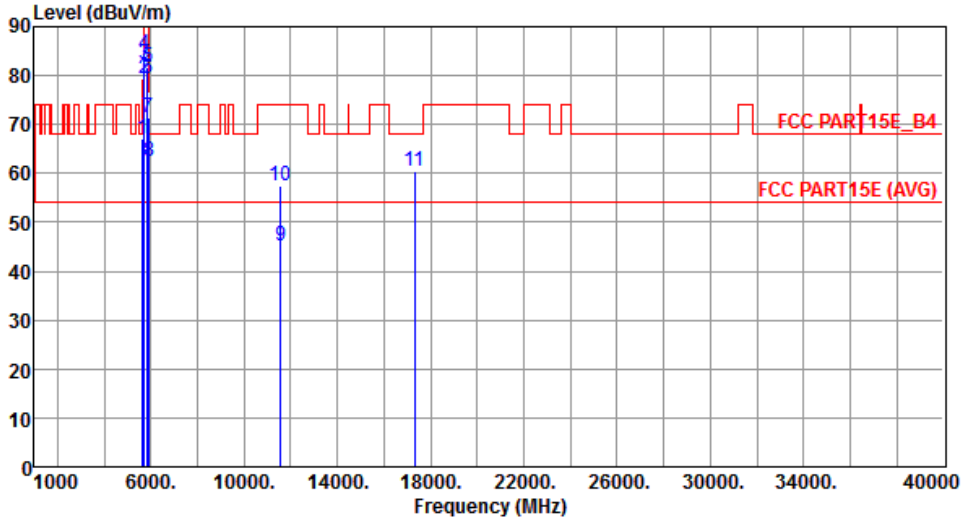
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		



	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	47.28	54.00	-6.72	40.92	6.36	Average	291	263
2	5460.00	65.02	74.00	-8.98	58.66	6.36	Peak	291	263
3	5470.00	48.31	54.00	-5.69	41.94	6.37	Average	291	263
4	5470.00	65.88	74.00	-8.12	59.51	6.37	Peak	291	263
5	5725.00	50.45	54.00	-3.55	43.62	6.83	Average	291	263
6	5725.00	65.13	74.00	-8.87	58.30	6.83	Peak	291	263
7	11220.00	44.13	54.00	-9.87	28.27	15.86	Average	221	306
8	11220.00	56.91	74.00	-17.09	41.05	15.86	Peak	221	306

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

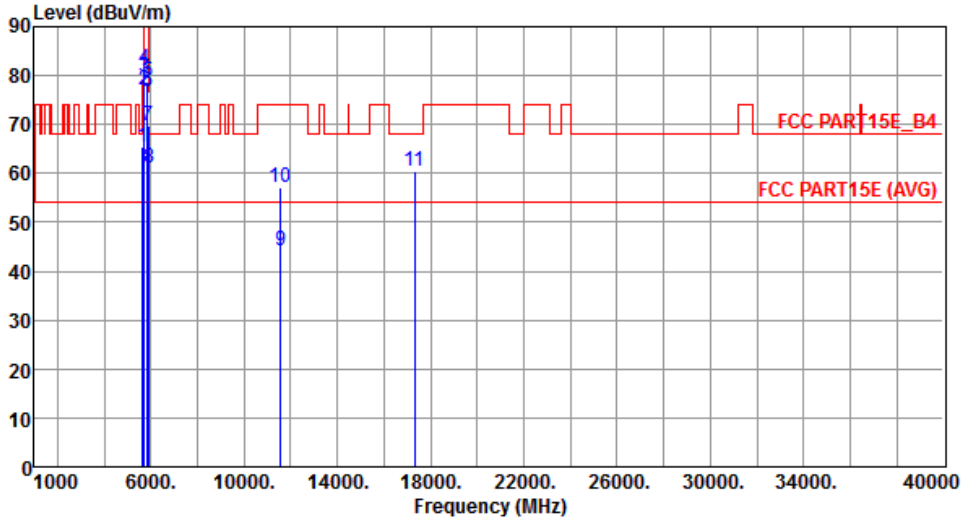
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	67.11	68.20	-1.09	60.48	6.63	Peak	253	336
2	5700.00	79.25	105.20	-25.95	72.48	6.77	Peak	253	336
3	5720.00	82.20	110.80	-28.60	75.38	6.82	Peak	253	336
4	5725.00	84.22	122.20	-37.98	77.39	6.83	Peak	253	336
5	5850.00	81.78	122.20	-40.42	74.62	7.16	Peak	253	336
6	5855.00	79.41	110.80	-31.39	72.23	7.18	Peak	253	336
7	5875.00	71.50	105.20	-33.70	64.27	7.23	Peak	253	336
8	5925.00	62.59	68.20	-5.61	55.25	7.34	Peak	253	336
9	11550.00	45.16	54.00	-8.84	29.23	15.93	Average	213	309
10	11550.00	57.48	74.00	-16.52	41.55	15.93	Peak	213	309
11	17325.00	60.48	68.20	-7.72	41.76	18.72	Peak	218	319

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

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



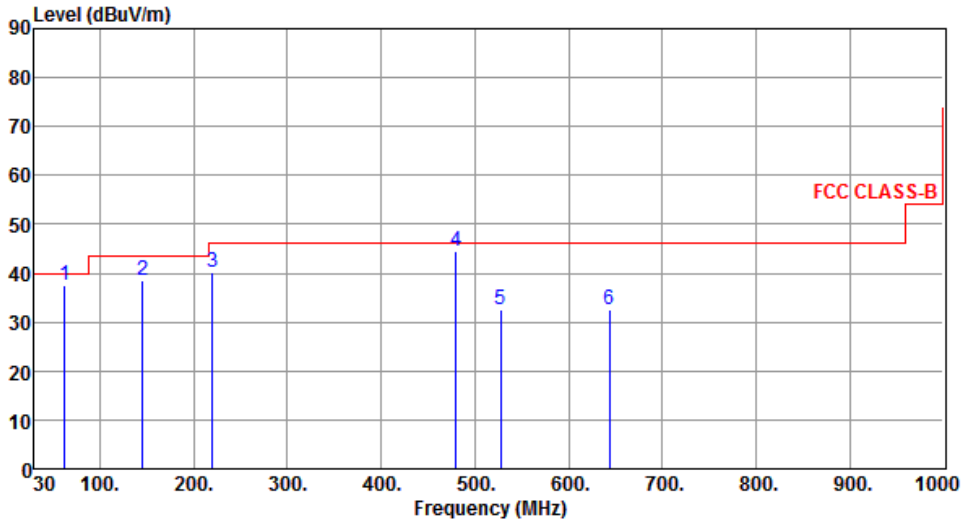
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	65.41	68.20	-2.79	58.78	6.63	Peak	298	251
2	5700.00	77.01	105.20	-28.19	70.24	6.77	Peak	298	251
3	5720.00	79.84	110.80	-30.96	73.02	6.82	Peak	298	251
4	5725.00	81.39	122.20	-40.81	74.56	6.83	Peak	298	251
5	5850.00	78.78	122.20	-43.42	71.62	7.16	Peak	298	251
6	5855.00	76.81	110.80	-33.99	69.63	7.18	Peak	298	251
7	5875.00	69.87	105.20	-35.33	62.64	7.23	Peak	298	251
8	5925.00	61.23	68.20	-6.97	53.89	7.34	Peak	298	251
9	11550.00	44.26	54.00	-9.74	28.33	15.93	Average	219	303
10	11550.00	57.01	74.00	-16.99	41.08	15.93	Peak	219	303
11	17325.00	60.43	68.20	-7.77	41.71	18.72	Peak	223	298

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

Configuration 3: External-WNC Antenna (330mm) + External-WNC Antenna (330mm) mode

3.5.14 Transmitter Radiated Unwanted Emissions (Below 1GHz)

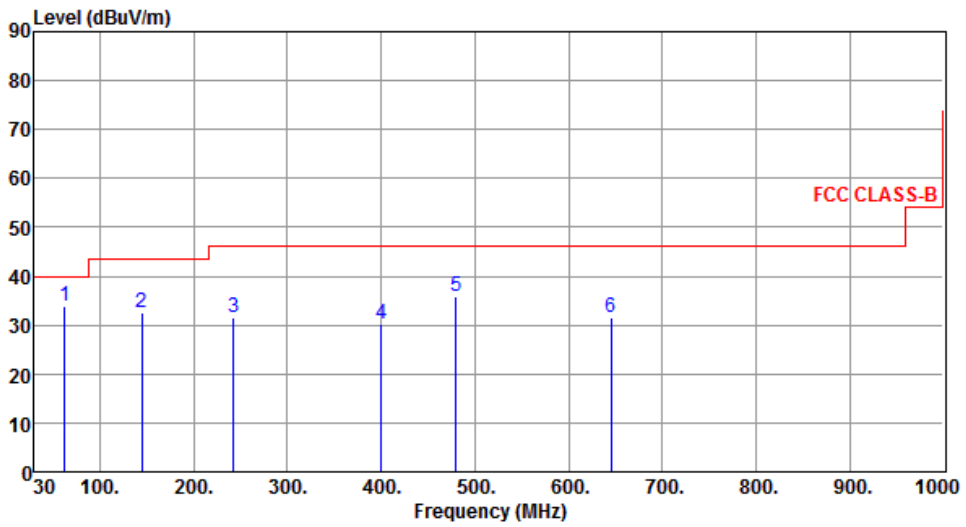
Modulation	VHT20	**Test Freq. (MHz)**	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	62.01	37.63	40.00	-2.37	46.58	-8.95	QP	388	146
2	145.43	38.68	43.50	-4.82	47.02	-8.34	Peak	---	---
3	220.12	40.05	46.00	-5.95	50.87	-10.82	Peak	---	---
4	480.08	44.42	46.00	-1.58	47.63	-3.21	QP	179	76
5	527.61	32.63	46.00	-13.37	35.05	-2.42	Peak	---	---
6	644.01	32.62	46.00	-13.38	32.78	-0.16	Peak	---	---

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

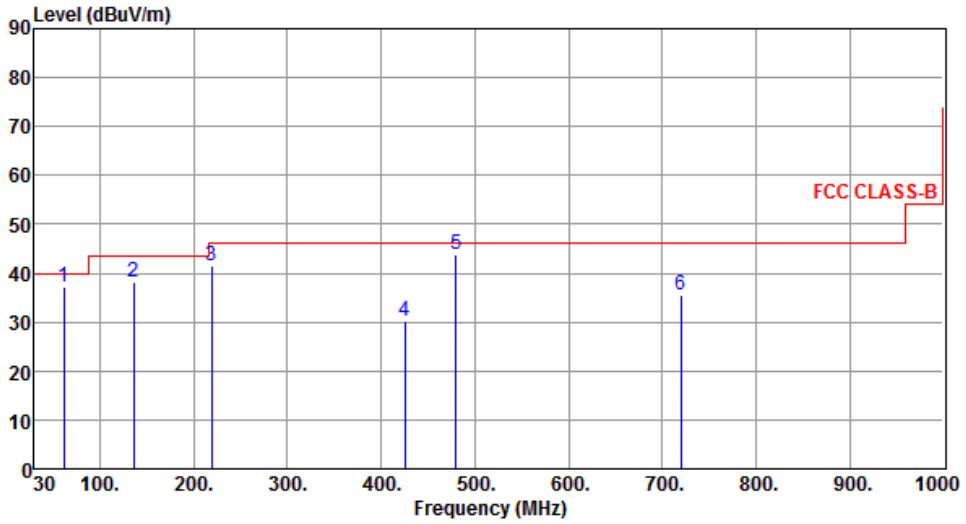
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	62.01	33.97	40.00	-6.03	42.92	-8.95	Peak	---	---
2	144.46	32.64	43.50	-10.86	41.01	-8.37	Peak	---	---
3	242.43	31.46	46.00	-14.54	40.98	-9.52	Peak	---	---
4	400.54	30.25	46.00	-15.75	35.23	-4.98	Peak	---	---
5	480.08	35.89	46.00	-10.11	39.10	-3.21	Peak	---	---
6	644.98	31.40	46.00	-14.60	31.55	-0.15	Peak	---	---

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

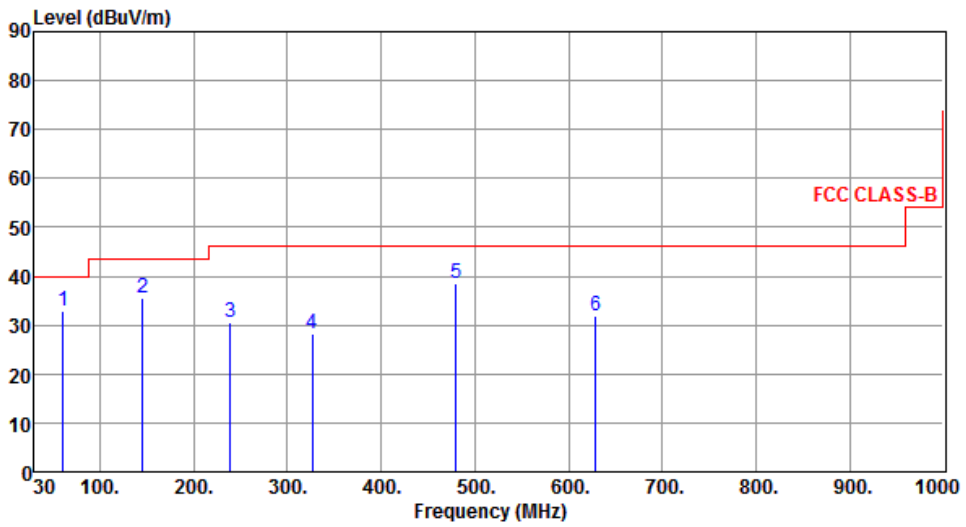
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	61.09	37.34	40.00	-2.66	46.10	-8.76	QP	382	151
2	135.73	38.12	43.50	-5.38	47.17	-9.05	Peak	---	---
3	219.15	41.38	46.00	-4.62	52.22	-10.84	Peak	---	---
4	425.76	30.11	46.00	-15.89	34.39	-4.28	Peak	---	---
5	480.00	43.89	46.00	-2.11	47.10	-3.21	QP	193	48
6	719.67	35.37	46.00	-10.63	34.20	1.17	Peak	---	---

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

Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		

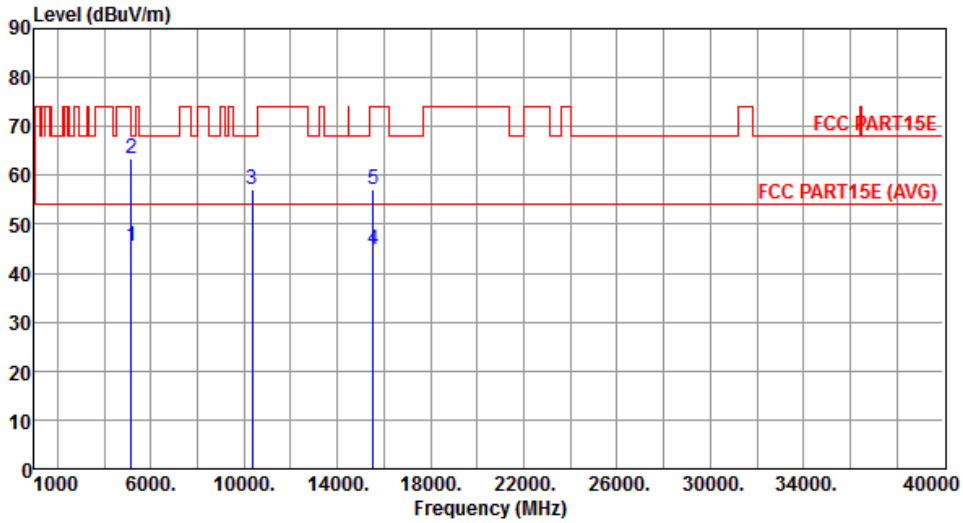


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	61.04	32.72	40.00	-7.28	41.47	-8.75	Peak	---	---
2	145.43	35.54	43.50	-7.96	43.88	-8.34	Peak	---	---
3	239.52	30.57	46.00	-15.43	40.17	-9.60	Peak	---	---
4	326.82	28.28	46.00	-17.72	35.26	-6.98	Peak	---	---
5	480.08	38.68	46.00	-7.32	41.89	-3.21	Peak	---	---
6	628.49	32.04	46.00	-13.96	32.37	-0.33	Peak	---	---

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

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

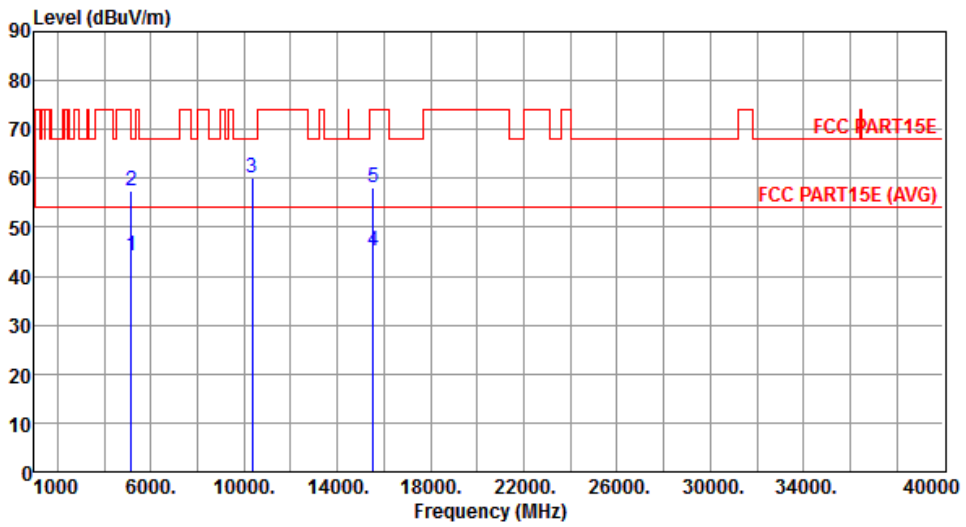
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Horizontal		



	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	45.39	54.00	-8.61	39.52	5.87	Average	201	349
2	5150.00	63.44	74.00	-10.56	57.57	5.87	Peak	201	349
3	10360.00	57.04	68.20	-11.16	41.82	15.22	Peak	162	153
4	15540.00	44.92	54.00	-9.08	28.85	16.07	Average	165	164
5	15540.00	57.12	74.00	-16.88	41.05	16.07	Peak	165	164

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

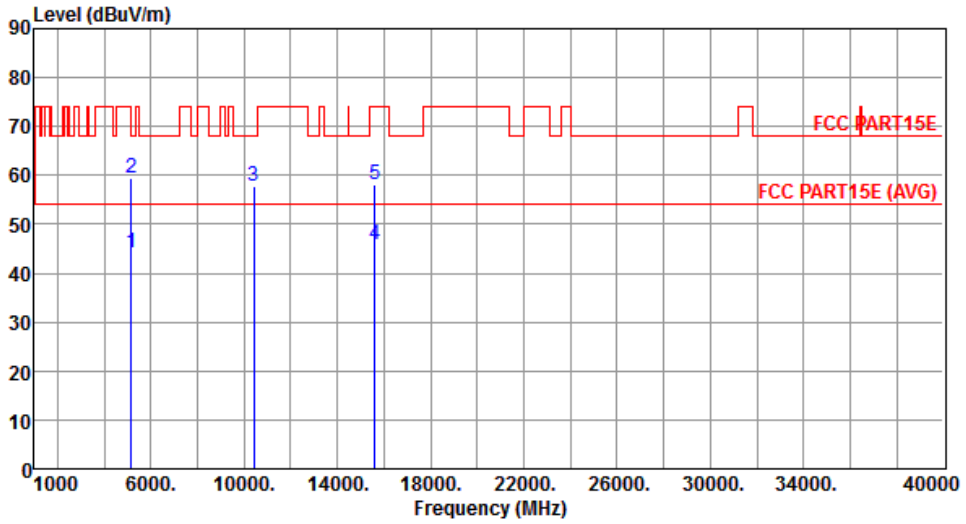
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	44.31	54.00	-9.69	38.44	5.87	Average	199	156
2	5150.00	57.35	74.00	-16.65	51.48	5.87	Peak	199	156
3	10360.00	60.13	68.20	-8.07	44.91	15.22	Peak	185	162
4	15540.00	45.04	54.00	-8.96	28.97	16.07	Average	186	153
5	15540.00	57.96	74.00	-16.04	41.89	16.07	Peak	186	153

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

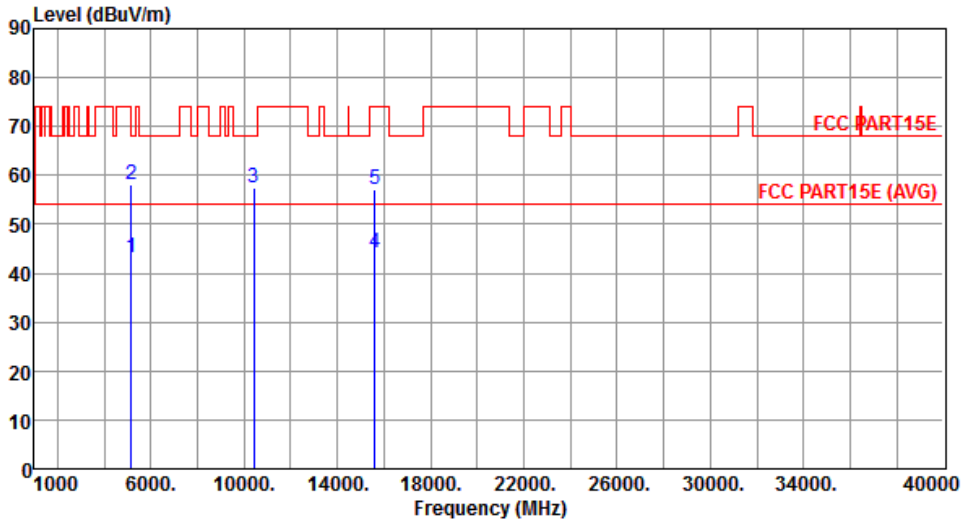
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	44.13	54.00	-9.87	38.26	5.87	Average	201	346
2	5150.00	59.29	74.00	-14.71	53.42	5.87	Peak	201	346
3	10400.00	57.76	68.20	-10.44	42.49	15.27	Peak	161	98
4	15600.00	45.78	54.00	-8.22	29.78	16.00	Average	161	100
5	15600.00	58.23	74.00	-15.77	42.23	16.00	Peak	161	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).

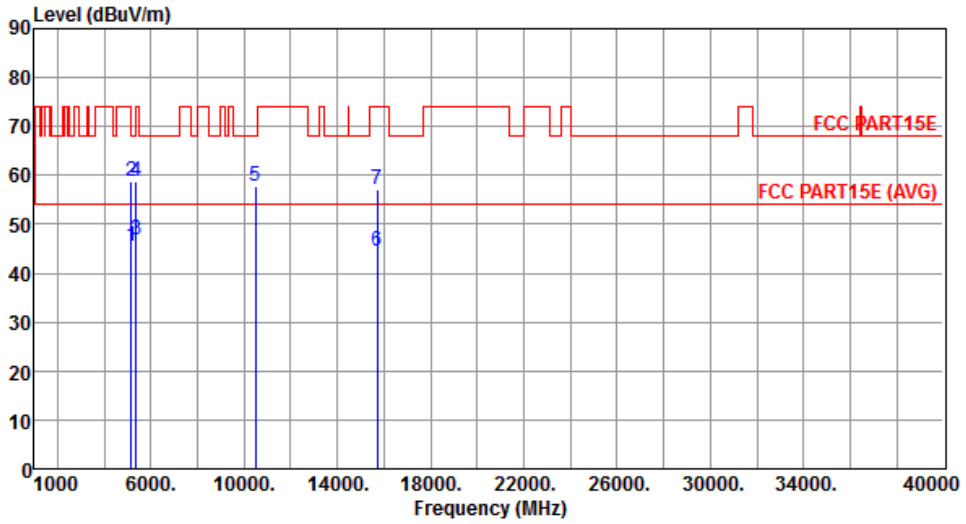
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	43.04	54.00	-10.96	37.17	5.87	Average	200	158
2	5150.00	58.21	74.00	-15.79	52.34	5.87	Peak	200	158
3	10400.00	57.48	68.20	-10.72	42.21	15.27	Peak	198	179
4	15600.00	44.24	54.00	-9.76	28.24	16.00	Average	201	181
5	15600.00	57.25	74.00	-16.75	41.25	16.00	Peak	201	181

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

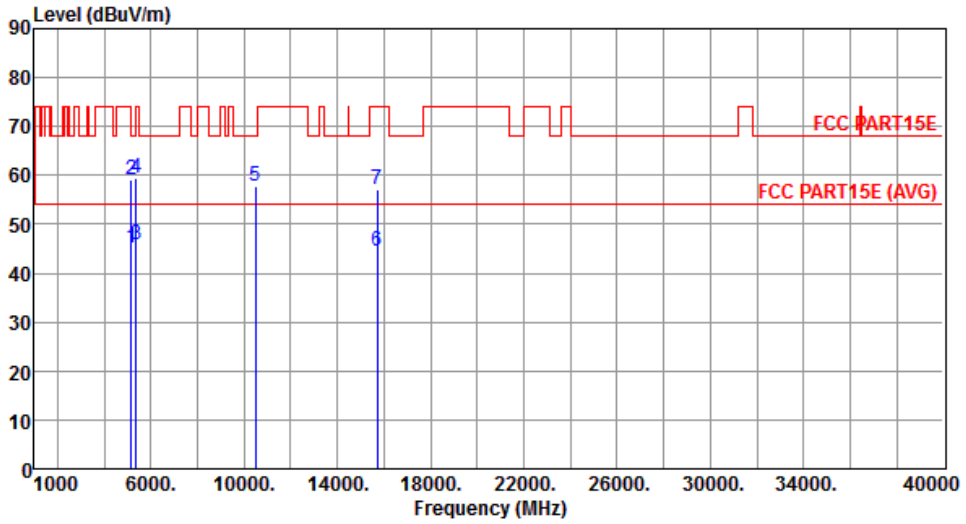
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.35	54.00	-8.65	39.48	5.87	Average	183	339
2	5150.00	58.79	74.00	-15.21	52.92	5.87	Peak	183	339
3	5350.00	46.67	54.00	-7.33	40.46	6.21	Average	183	339
4	5350.00	58.80	74.00	-15.20	52.59	6.21	Peak	183	339
5	10480.00	57.70	68.20	-10.50	42.34	15.36	Peak	212	148
6	15720.00	44.49	54.00	-9.51	28.63	15.86	Average	176	312
7	15720.00	57.18	74.00	-16.82	41.32	15.86	Peak	176	312

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

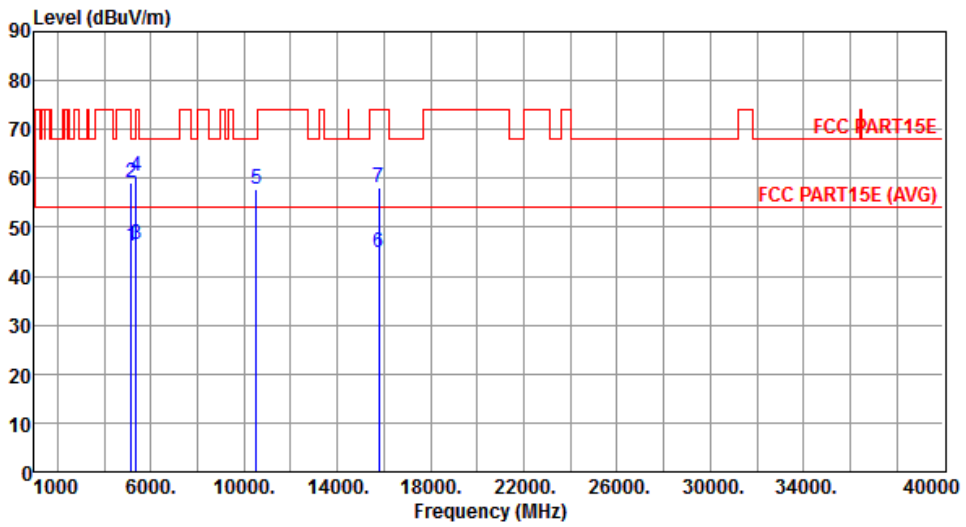
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.20	54.00	-8.80	39.33	5.87	Average	183	205
2	5150.00	59.08	74.00	-14.92	53.21	5.87	Peak	183	205
3	5350.00	45.87	54.00	-8.13	39.66	6.21	Average	183	205
4	5350.00	59.50	74.00	-14.50	53.29	6.21	Peak	183	205
5	10480.00	57.90	68.20	-10.30	42.54	15.36	Peak	155	216
6	15720.00	44.39	54.00	-9.61	28.53	15.86	Average	155	158
7	15720.00	57.17	74.00	-16.83	41.31	15.86	Peak	155	158

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

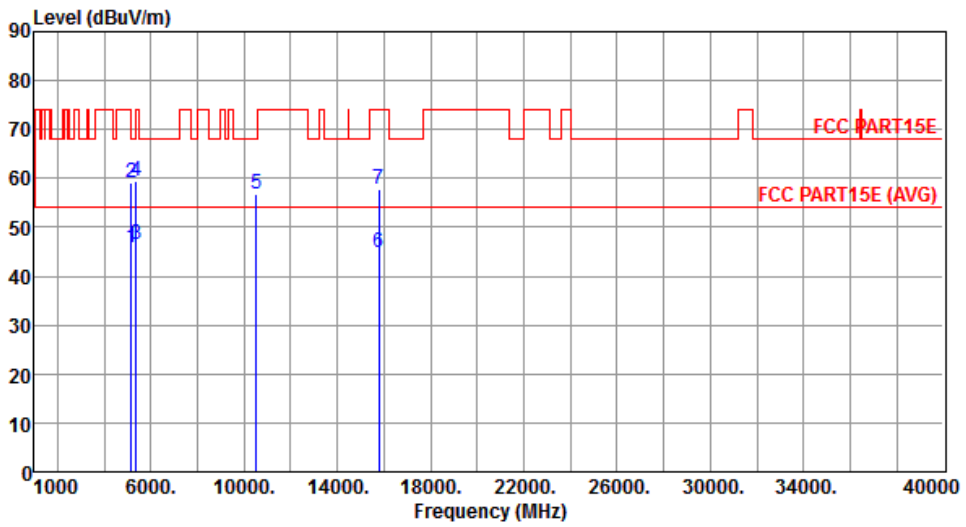
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.08	54.00	-7.92	40.21	5.87	Average	165	343
2	5150.00	59.20	74.00	-14.80	53.33	5.87	Peak	165	343
3	5350.00	46.66	54.00	-7.34	40.45	6.21	Average	165	343
4	5350.00	60.43	74.00	-13.57	54.22	6.21	Peak	165	343
5	10520.00	57.84	68.20	-10.36	42.43	15.41	Peak	168	292
6	15780.00	44.89	54.00	-9.11	29.11	15.78	Average	151	148
7	15780.00	58.01	74.00	-15.99	42.23	15.78	Peak	151	148

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

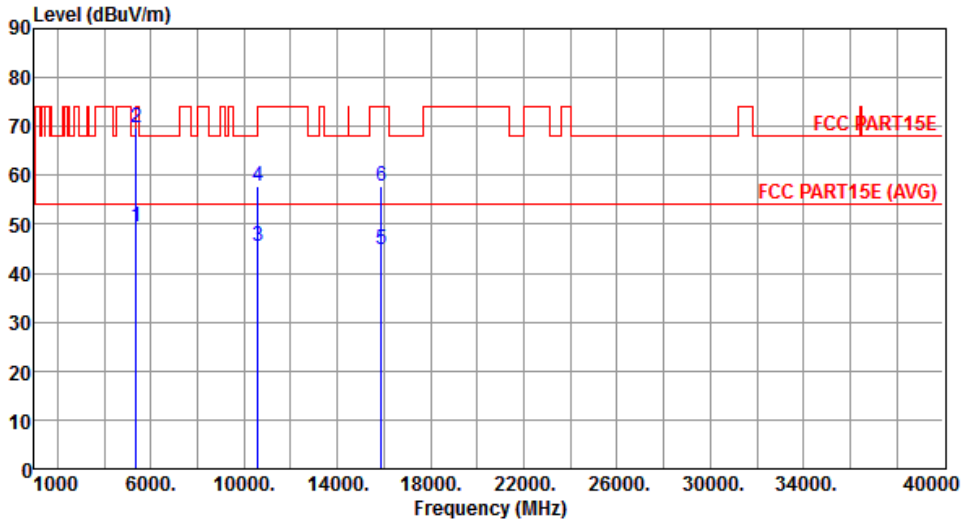
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	45.99	54.00	-8.01	40.12	5.87	Average	165	117
2	5150.00	59.15	74.00	-14.85	53.28	5.87	Peak	165	117
3	5350.00	46.47	54.00	-7.53	40.26	6.21	Average	165	117
4	5350.00	59.46	74.00	-14.54	53.25	6.21	Peak	165	117
5	10520.00	56.65	68.20	-11.55	41.24	15.41	Peak	155	21
6	15780.00	44.94	54.00	-9.06	29.16	15.78	Average	138	148
7	15780.00	57.94	74.00	-16.06	42.16	15.78	Peak	138	148

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

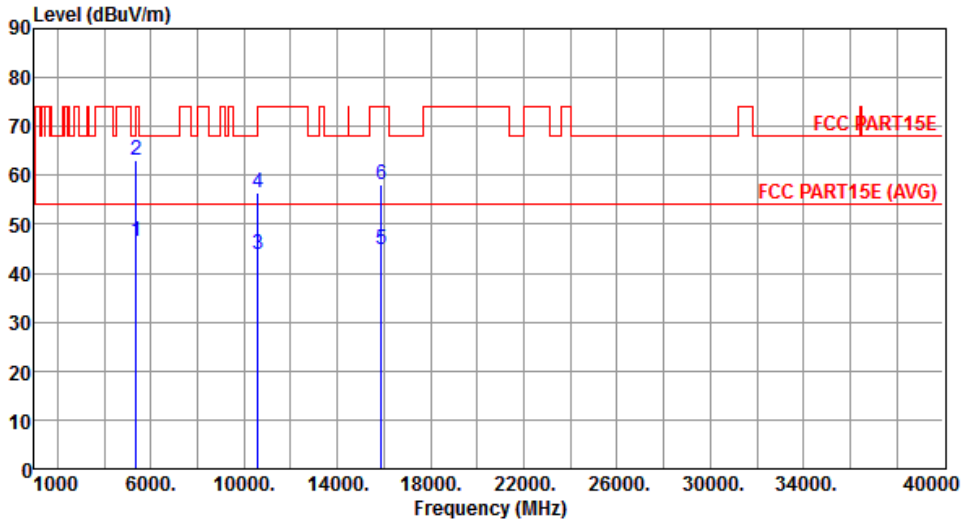
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.64	54.00	-4.36	43.43	6.21	Average	167	344
2	5350.00	69.79	74.00	-4.21	63.58	6.21	Peak	167	344
3	10600.00	45.40	54.00	-8.60	29.94	15.46	Average	166	293
4	10600.00	57.71	74.00	-16.29	42.25	15.46	Peak	166	293
5	15900.00	44.87	54.00	-9.13	29.23	15.64	Average	152	147
6	15900.00	57.85	74.00	-16.15	42.21	15.64	Peak	152	147

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

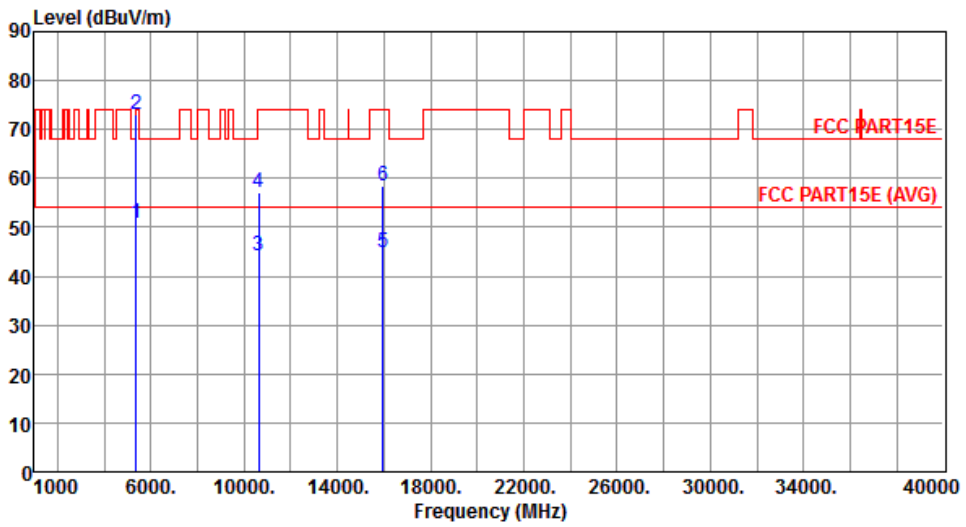
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.64	54.00	-7.36	40.43	6.21	Average	167	115
2	5350.00	62.94	74.00	-11.06	56.73	6.21	Peak	167	115
3	10600.00	43.89	54.00	-10.11	28.43	15.46	Average	156	20
4	10600.00	56.48	74.00	-17.52	41.02	15.46	Peak	156	20
5	15900.00	44.99	54.00	-9.01	29.35	15.64	Average	152	133
6	15900.00	58.17	74.00	-15.83	42.53	15.64	Peak	152	133

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

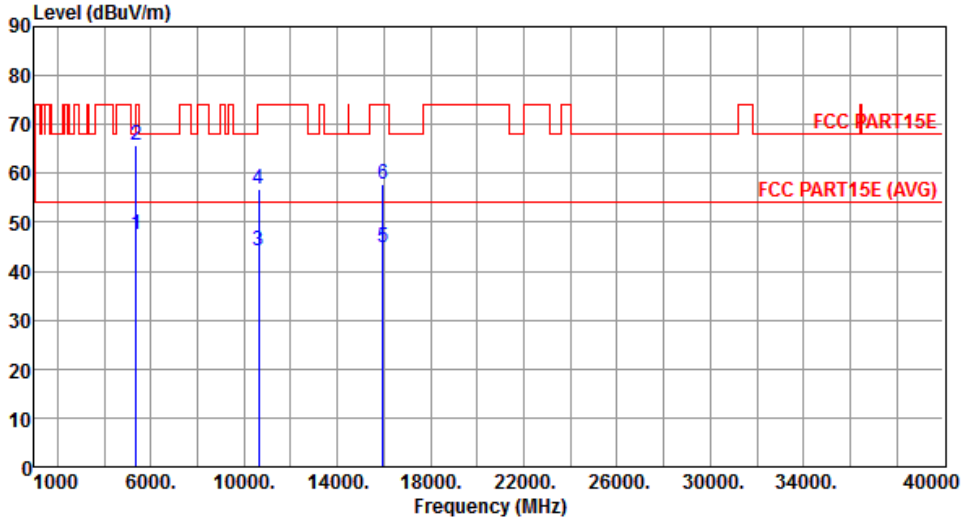
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	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	50.69	54.00	-3.31	44.48	6.21	Average	191	318
2	5350.00	72.94	74.00	-1.06	66.73	6.21	Peak	191	318
3	10640.00	44.02	54.00	-9.98	28.53	15.49	Average	155	216
4	10640.00	57.04	74.00	-16.96	41.55	15.49	Peak	155	216
5	15960.00	44.81	54.00	-9.19	29.24	15.57	Average	188	135
6	15960.00	58.30	74.00	-15.70	42.73	15.57	Peak	188	135

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

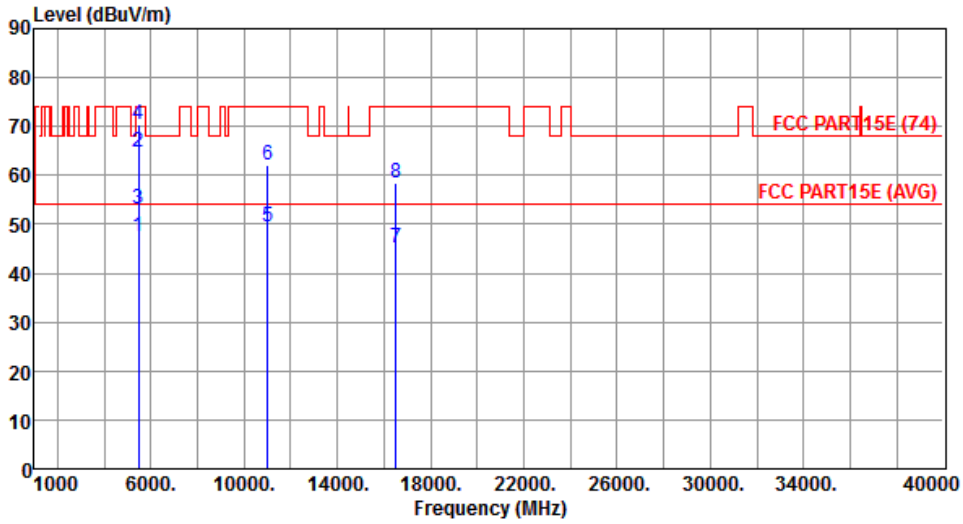
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	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	47.65	54.00	-6.35	41.44	6.21	Average	195	213
2	5350.00	65.89	74.00	-8.11	59.68	6.21	Peak	195	213
3	10640.00	44.12	54.00	-9.88	28.63	15.49	Average	155	162
4	10640.00	56.80	74.00	-17.20	41.31	15.49	Peak	155	162
5	15960.00	44.70	54.00	-9.30	29.13	15.57	Average	182	138
6	15960.00	57.68	74.00	-16.32	42.11	15.57	Peak	182	138

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

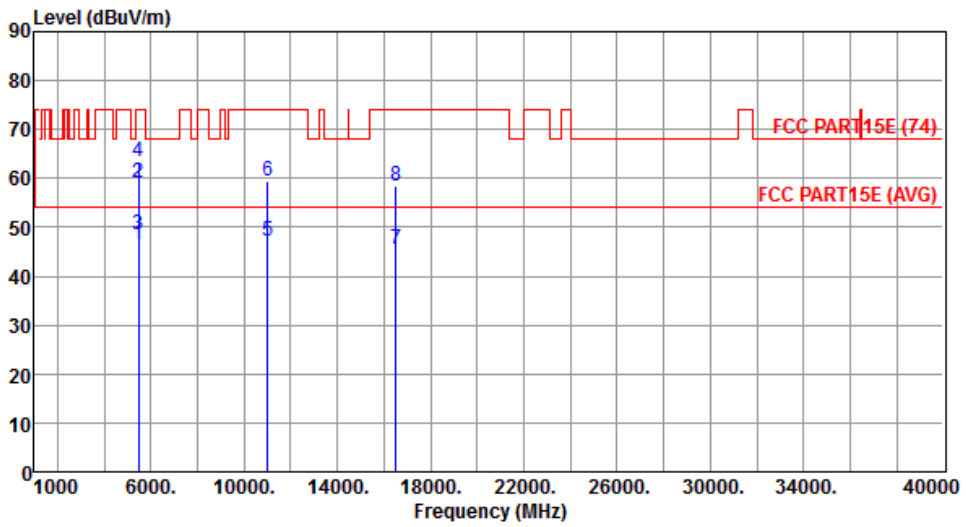
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.38	54.00	-6.62	41.02	6.36	Average	169	338
2	5460.00	64.74	74.00	-9.26	58.38	6.36	Peak	169	338
3	5470.00	52.99	54.00	-1.01	46.62	6.37	Average	169	338
4	5470.00	70.48	74.00	-3.52	64.11	6.37	Peak	169	338
5	11000.00	49.36	54.00	-4.64	33.62	15.74	Average	149	196
6	11000.00	62.09	74.00	-11.91	46.35	15.74	Peak	149	196
7	16500.00	45.27	54.00	-8.73	29.24	16.03	Average	153	168
8	16500.00	58.45	74.00	-15.55	42.42	16.03	Peak	153	168

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

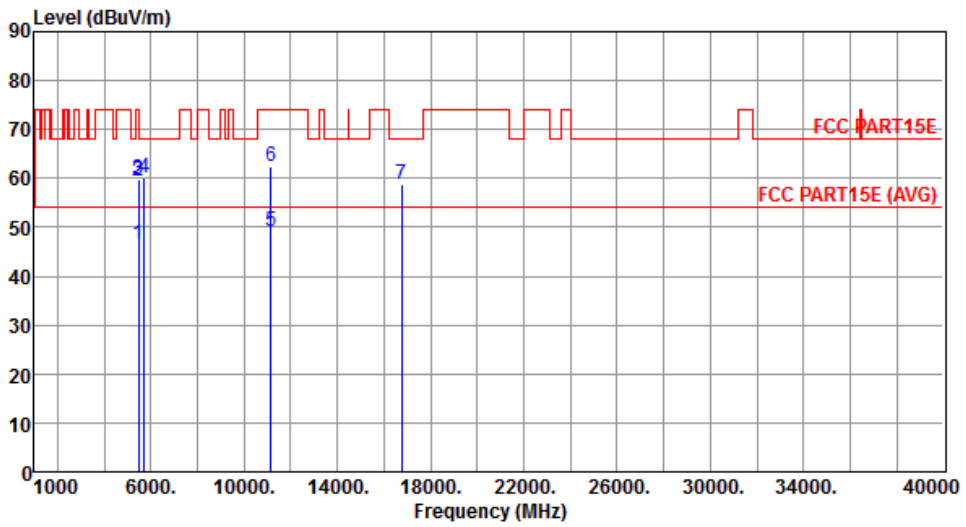
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	46.36	54.00	-7.64	40.00	6.36	Average	170	15
2	5460.00	59.22	74.00	-14.78	52.86	6.36	Peak	170	15
3	5470.00	48.59	54.00	-5.41	42.22	6.37	Average	170	15
4	5470.00	63.56	74.00	-10.44	57.19	6.37	Peak	170	15
5	11000.00	47.27	54.00	-6.73	31.53	15.74	Average	185	70
6	11000.00	59.33	74.00	-14.67	43.59	15.74	Peak	185	70
7	16500.00	45.41	54.00	-8.59	29.38	16.03	Average	143	217
8	16500.00	58.40	74.00	-15.60	42.37	16.03	Peak	143	217

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

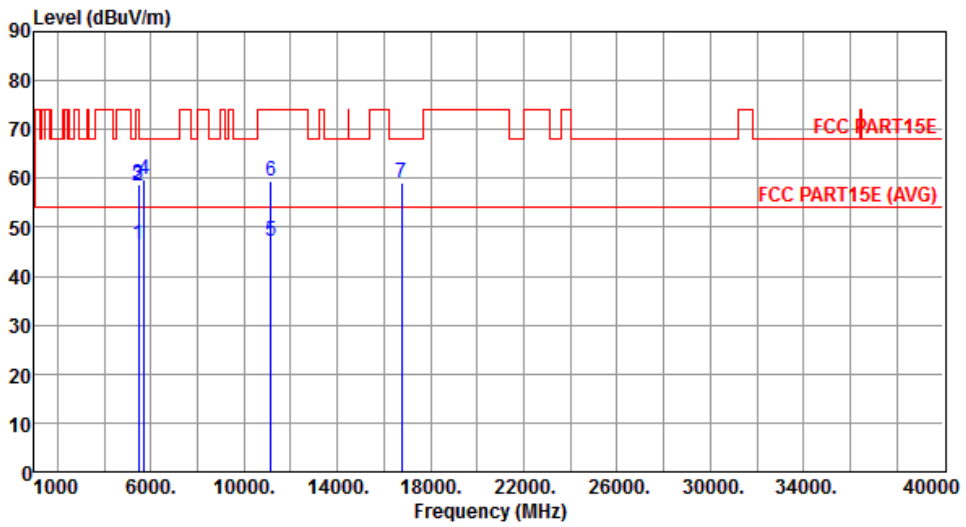
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.39	54.00	-7.61	40.03	6.36	Average	170	344
2	5460.00	59.36	74.00	-14.64	53.00	6.36	Peak	170	344
3	5470.00	59.75	68.20	-8.45	53.38	6.37	Peak	170	344
4	5725.00	59.99	68.20	-8.21	53.16	6.83	Peak	170	344
5	11160.00	49.05	54.00	-4.95	33.22	15.83	Average	149	292
6	11160.00	62.27	74.00	-11.73	46.44	15.83	Peak	149	292
7	16740.00	58.88	68.20	-9.32	42.08	16.80	Peak	182	23

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

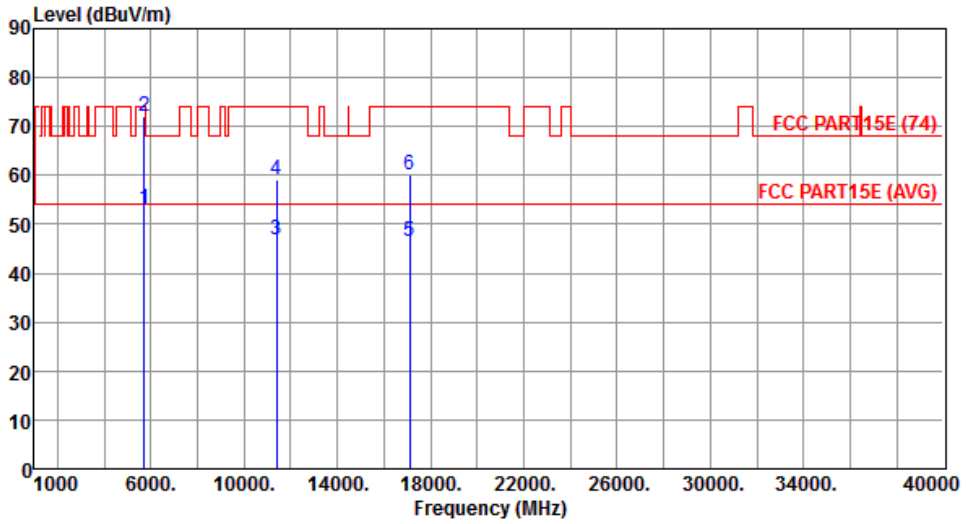
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	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	46.57	54.00	-7.43	40.21	6.36	Average	177	53
2	5460.00	58.59	74.00	-15.41	52.23	6.36	Peak	177	53
3	5470.00	58.88	68.20	-9.32	52.51	6.37	Peak	177	53
4	5725.00	59.86	68.20	-8.34	53.03	6.83	Peak	177	53
5	11160.00	47.01	54.00	-6.99	31.18	15.83	Average	144	90
6	11160.00	59.51	74.00	-14.49	43.68	15.83	Peak	144	90
7	16740.00	59.02	68.20	-9.18	42.22	16.80	Peak	182	222

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

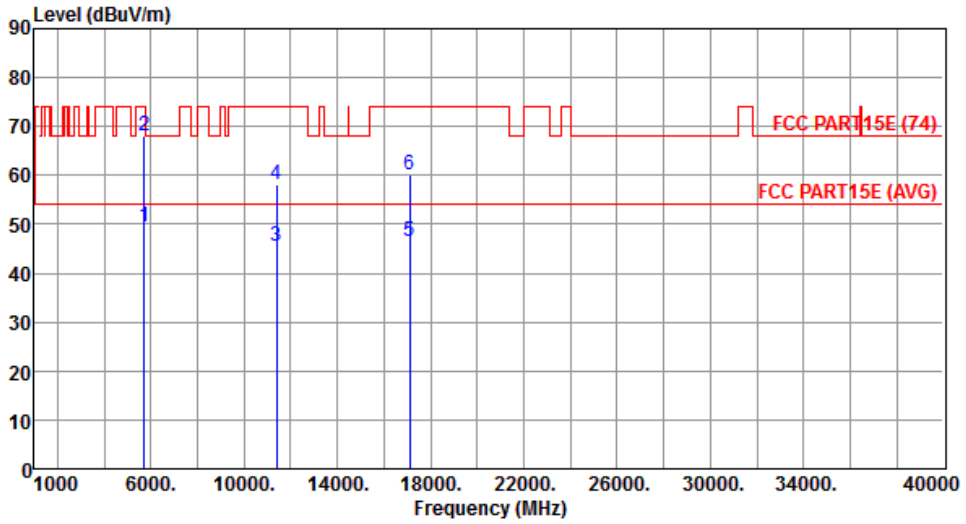
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	52.98	54.00	-1.02	46.15	6.83	Average	188	321
2	5725.00	72.03	74.00	-1.97	65.20	6.83	Peak	188	321
3	11400.00	46.98	54.00	-7.02	31.02	15.96	Average	164	142
4	11400.00	59.21	74.00	-14.79	43.25	15.96	Peak	164	142
5	17100.00	46.40	54.00	-7.60	28.44	17.96	Average	165	138
6	17100.00	60.20	74.00	-13.80	42.24	17.96	Peak	165	138

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

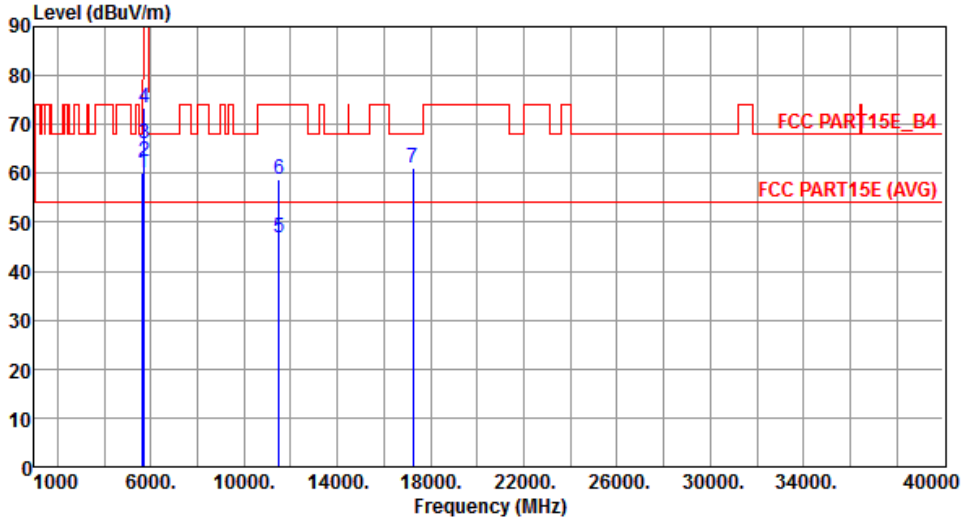
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	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	49.57	54.00	-4.43	42.74	6.83	Average	188	223
2	5725.00	68.07	74.00	-5.93	61.24	6.83	Peak	188	223
3	11400.00	45.49	54.00	-8.51	29.53	15.96	Average	188	43
4	11400.00	58.19	74.00	-15.81	42.23	15.96	Peak	188	43
5	17100.00	46.61	54.00	-7.39	28.65	17.96	Average	152	216
6	17100.00	60.17	74.00	-13.83	42.21	17.96	Peak	152	216

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

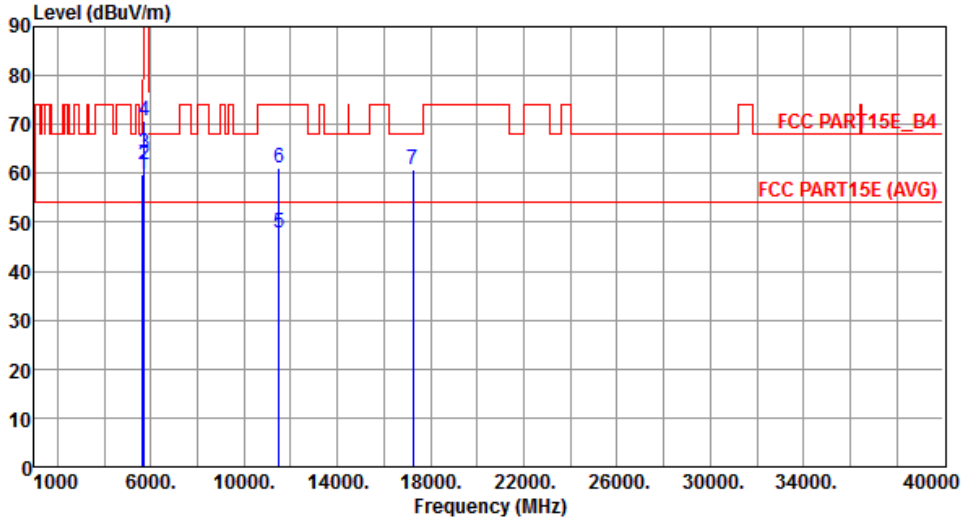
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.07	68.20	-8.13	53.44	6.63	Peak	187	314
2	5700.00	62.49	105.20	-42.71	55.72	6.77	Peak	187	314
3	5720.00	66.13	110.80	-44.67	59.31	6.82	Peak	187	314
4	5725.00	73.32	122.20	-48.88	66.49	6.83	Peak	187	314
5	11490.00	46.77	54.00	-7.23	30.76	16.01	Average	189	305
6	11490.00	58.69	74.00	-15.31	42.68	16.01	Peak	189	305
7	17235.00	61.19	68.20	-7.01	42.76	18.43	Peak	155	213

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

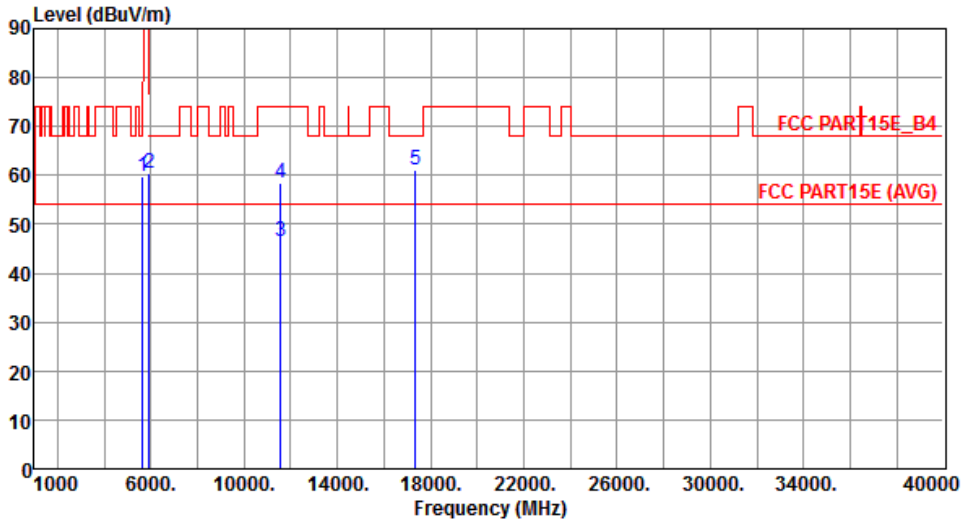
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.69	68.20	-8.51	53.06	6.63	Peak	180	309
2	5700.00	61.79	105.20	-43.41	55.02	6.77	Peak	180	309
3	5720.00	64.25	110.80	-46.55	57.43	6.82	Peak	180	309
4	5725.00	70.59	122.20	-51.61	63.76	6.83	Peak	180	309
5	11490.00	47.71	54.00	-6.29	31.70	16.01	Average	191	133
6	11490.00	60.95	74.00	-13.05	44.94	16.01	Peak	191	133
7	17235.00	60.77	68.20	-7.43	42.34	18.43	Peak	155	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).

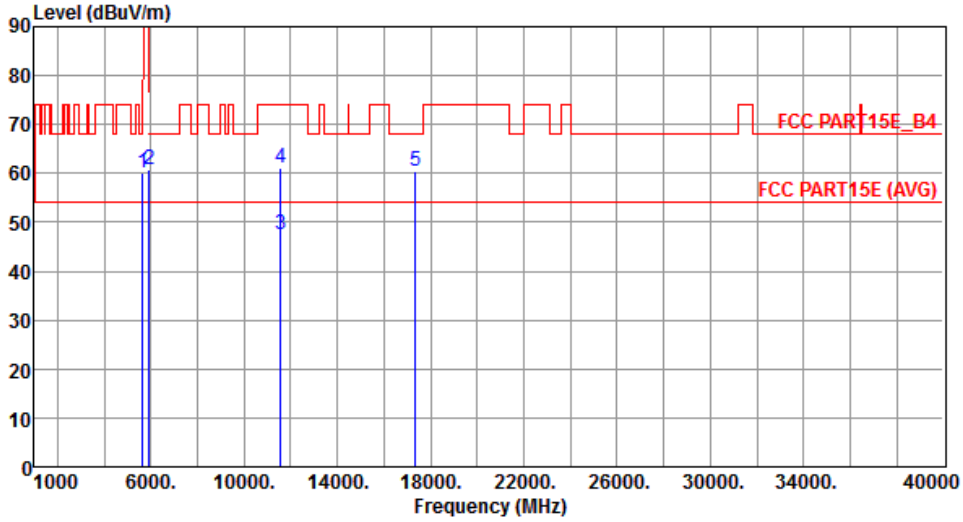
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.84	68.20	-8.36	53.21	6.63	Peak	185	315
2	5925.00	60.44	68.20	-7.76	53.10	7.34	Peak	185	315
3	11570.00	46.65	54.00	-7.35	30.76	15.89	Average	185	312
4	11570.00	58.42	74.00	-15.58	42.53	15.89	Peak	185	312
5	17355.00	61.20	68.20	-7.00	42.38	18.82	Peak	162	216

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

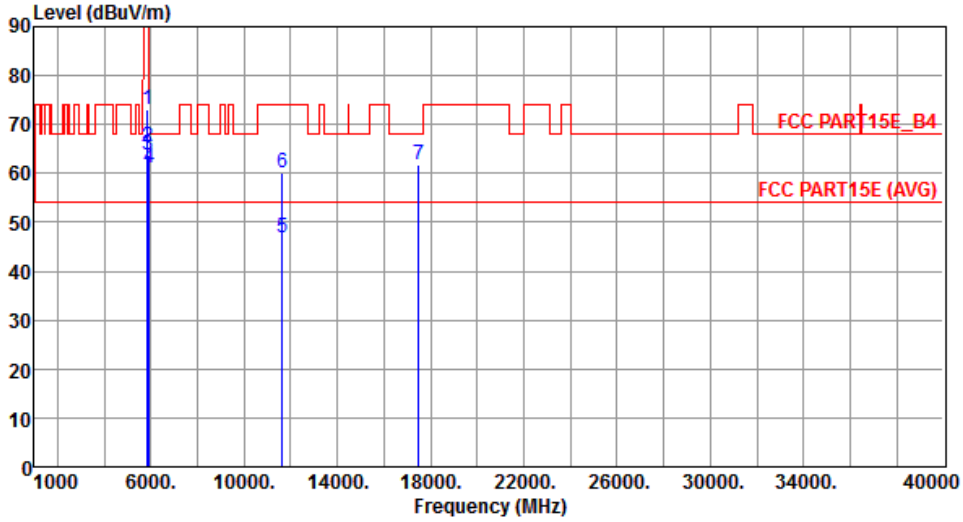
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.96	68.20	-8.24	53.33	6.63	Peak	175	310
2	5925.00	60.87	68.20	-7.33	53.53	7.34	Peak	175	310
3	11570.00	47.62	54.00	-6.38	31.73	15.89	Average	188	142
4	11570.00	61.22	74.00	-12.78	45.33	15.89	Peak	188	142
5	17355.00	60.46	68.20	-7.74	41.64	18.82	Peak	162	138

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

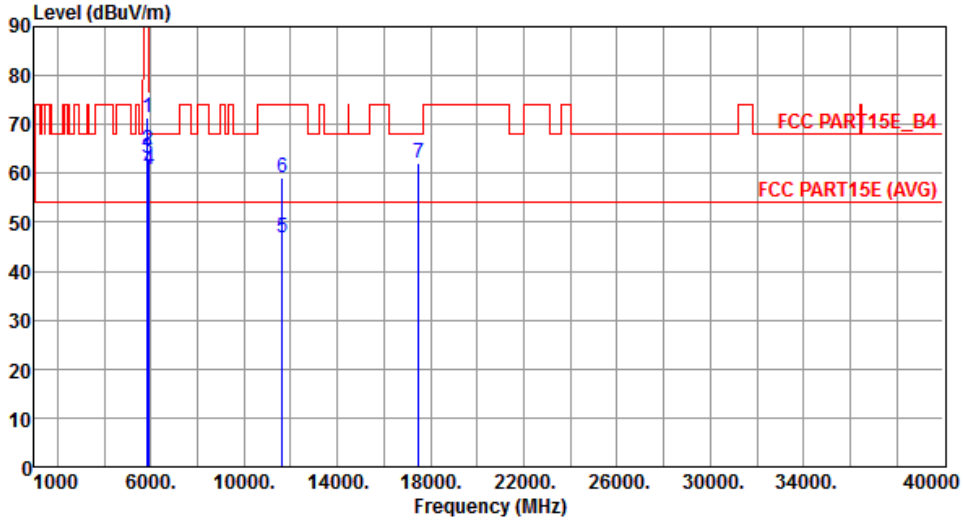
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	72.91	122.20	-49.29	65.75	7.16	Peak	186	306
2	5855.00	65.58	110.80	-45.22	58.40	7.18	Peak	186	306
3	5875.00	63.64	105.20	-41.56	56.41	7.23	Peak	186	306
4	5925.00	61.08	68.20	-7.12	53.74	7.34	Peak	186	306
5	11650.00	46.95	54.00	-7.05	31.21	15.74	Average	153	212
6	11650.00	59.95	74.00	-14.05	44.21	15.74	Peak	153	212
7	17475.00	61.67	68.20	-6.53	42.44	19.23	Peak	128	168

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

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

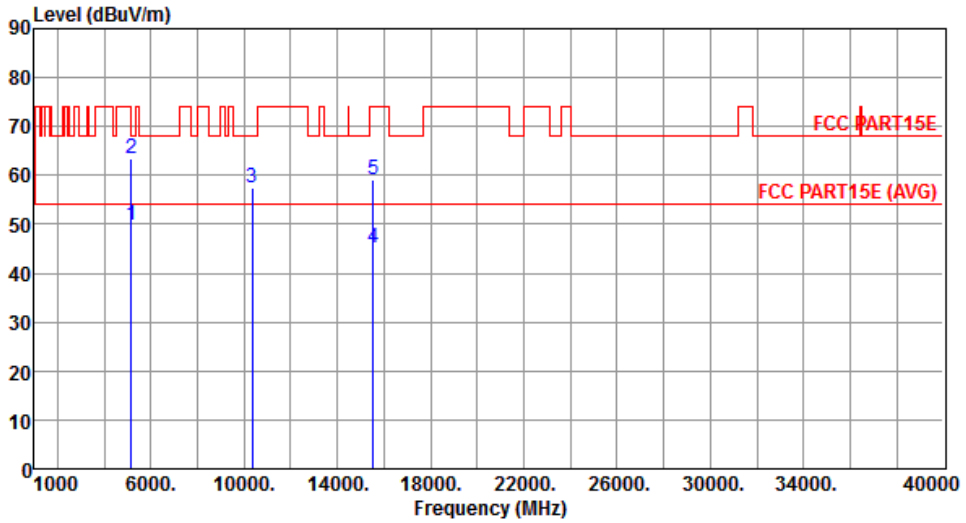


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	71.26	122.20	-50.94	64.10	7.16	Peak	186	235
2	5855.00	64.79	110.80	-46.01	57.61	7.18	Peak	186	235
3	5875.00	62.94	105.20	-42.26	55.71	7.23	Peak	186	235
4	5925.00	60.72	68.20	-7.48	53.38	7.34	Peak	186	235
5	11650.00	46.76	54.00	-7.24	31.02	15.74	Average	143	162
6	11650.00	59.27	74.00	-14.73	43.53	15.74	Peak	143	162
7	17475.00	61.95	68.20	-6.25	42.72	19.23	Peak	166	183

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

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

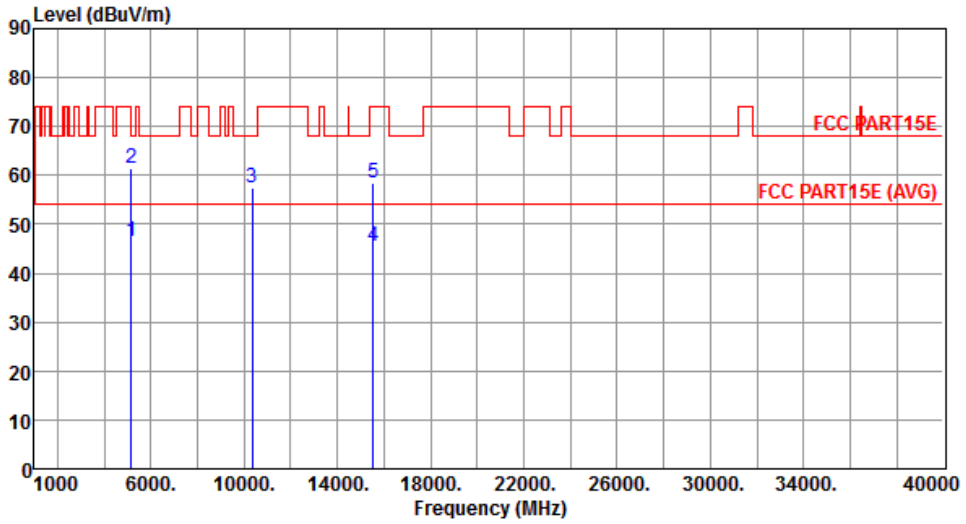
Modulation	VHT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	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	49.76	54.00	-4.24	43.89	5.87	Average	210	347
2	5150.00	63.34	74.00	-10.66	57.47	5.87	Peak	210	347
3	10360.00	57.48	68.20	-10.72	42.26	15.22	Peak	165	212
4	15540.00	45.28	54.00	-8.72	29.21	16.07	Average	138	168
5	15540.00	59.25	74.00	-14.75	43.18	16.07	Peak	138	168

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

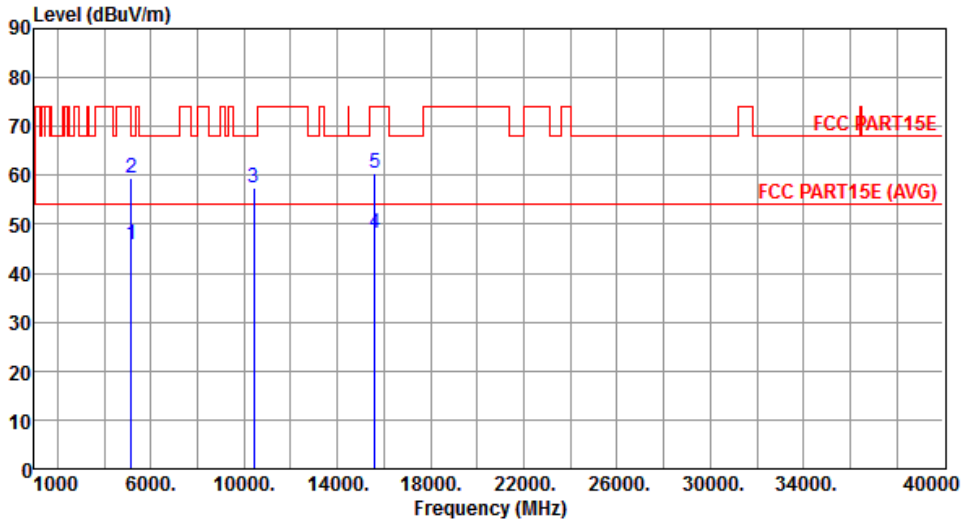
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	46.59	54.00	-7.41	40.72	5.87	Average	210	268
2	5150.00	61.51	74.00	-12.49	55.64	5.87	Peak	210	268
3	10360.00	57.38	68.20	-10.82	42.16	15.22	Peak	182	177
4	15540.00	45.48	54.00	-8.52	29.41	16.07	Average	172	196
5	15540.00	58.32	74.00	-15.68	42.25	16.07	Peak	172	196

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

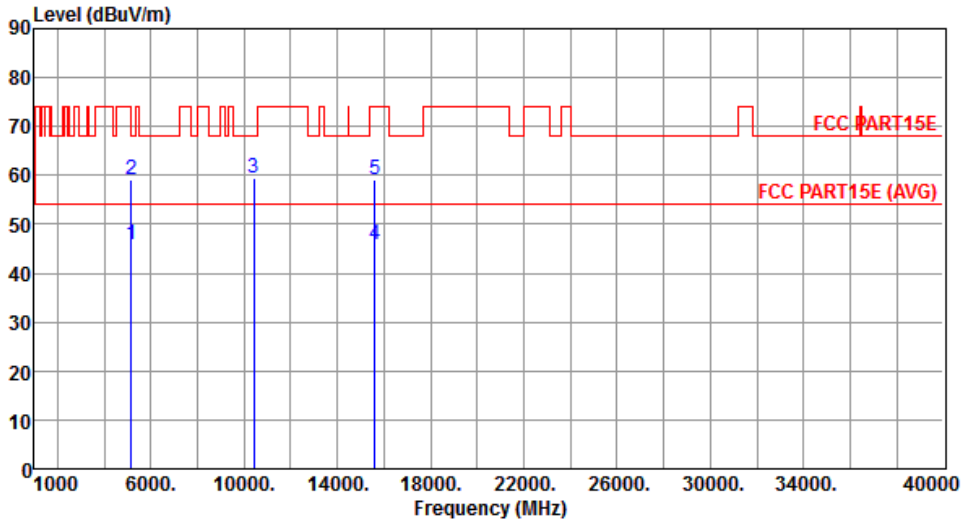
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	45.93	54.00	-8.07	40.06	5.87	Average	203	343
2	5150.00	59.35	74.00	-14.65	53.48	5.87	Peak	203	343
3	10400.00	57.41	68.20	-10.79	42.14	15.27	Peak	216	300
4	15600.00	48.05	54.00	-5.95	32.05	16.00	Average	193	300
5	15600.00	60.46	74.00	-13.54	44.46	16.00	Peak	193	300

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

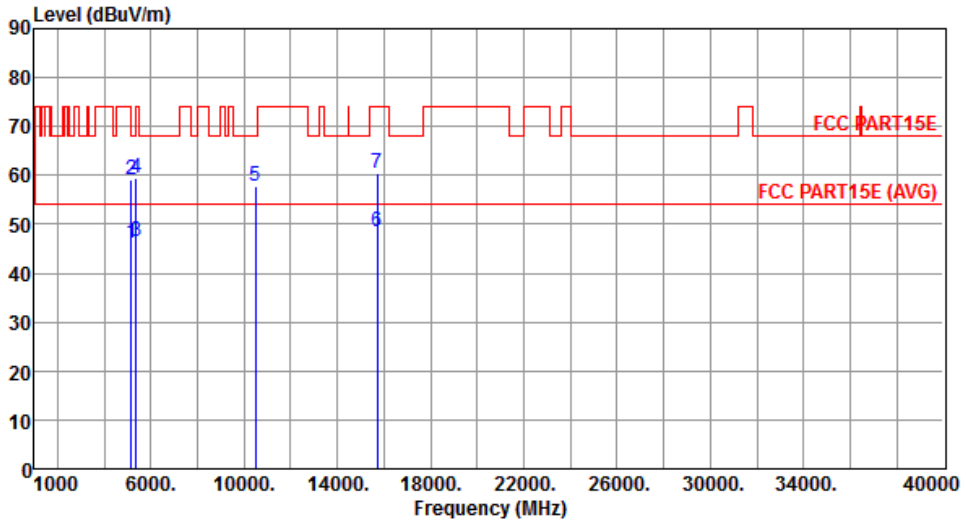
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	45.89	54.00	-8.11	40.02	5.87	Average	214	162
2	5150.00	59.08	74.00	-14.92	53.21	5.87	Peak	214	162
3	10400.00	59.37	68.20	-8.83	44.10	15.27	Peak	196	188
4	15600.00	45.98	54.00	-8.02	29.98	16.00	Average	192	250
5	15600.00	59.14	74.00	-14.86	43.14	16.00	Peak	192	250

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

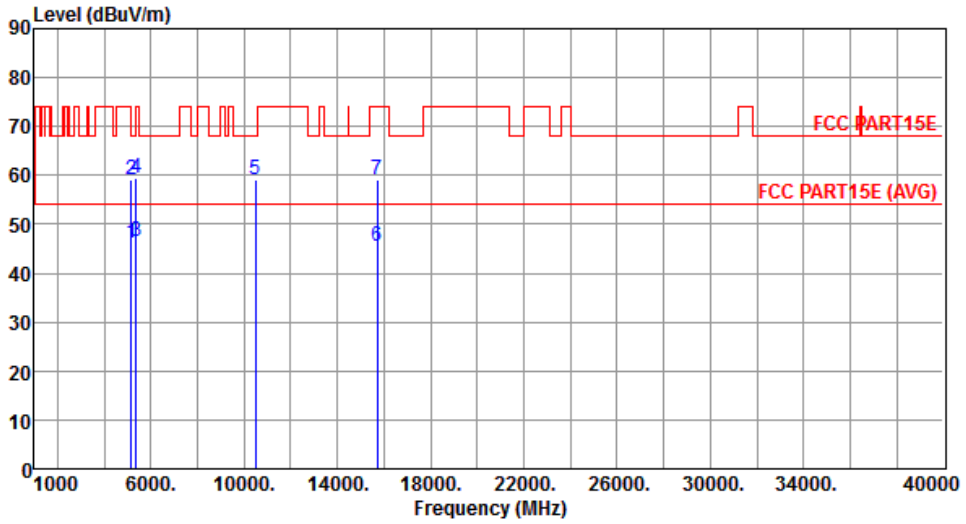
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	46.12	54.00	-7.88	40.25	5.87	Average	202	341
2	5150.00	59.25	74.00	-14.75	53.38	5.87	Peak	202	341
3	5350.00	46.63	54.00	-7.37	40.42	6.21	Average	202	341
4	5350.00	59.53	74.00	-14.47	53.32	6.21	Peak	202	341
5	10480.00	57.62	68.20	-10.58	42.26	15.36	Peak	215	299
6	15720.00	48.35	54.00	-5.65	32.49	15.86	Average	185	285
7	15720.00	60.31	74.00	-13.69	44.45	15.86	Peak	185	285

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

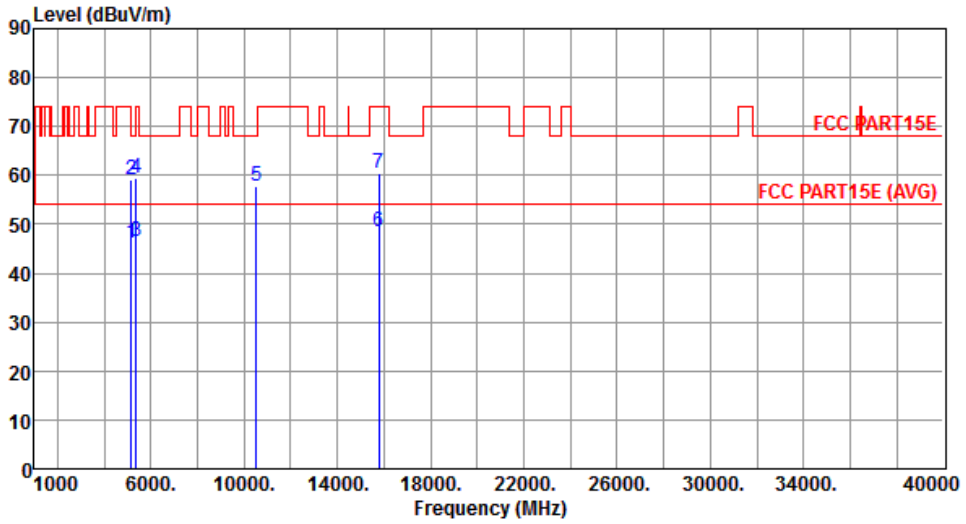
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.08	54.00	-7.92	40.21	5.87	Average	212	161
2	5150.00	59.03	74.00	-14.97	53.16	5.87	Peak	212	161
3	5350.00	46.38	54.00	-7.62	40.17	6.21	Average	212	161
4	5350.00	59.50	74.00	-14.50	53.29	6.21	Peak	212	161
5	10480.00	59.23	68.20	-8.97	43.87	15.36	Peak	192	163
6	15720.00	45.61	54.00	-8.39	29.75	15.86	Average	185	249
7	15720.00	59.22	74.00	-14.78	43.36	15.86	Peak	185	249

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

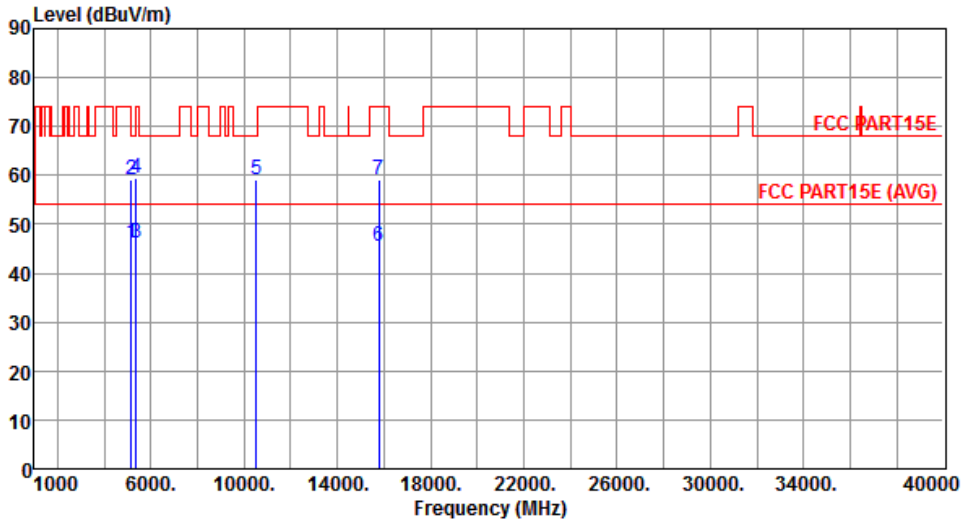
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.02	54.00	-7.98	40.15	5.87	Average	203	342
2	5150.00	59.16	74.00	-14.84	53.29	5.87	Peak	203	342
3	5350.00	46.52	54.00	-7.48	40.31	6.21	Average	203	342
4	5350.00	59.41	74.00	-14.59	53.20	6.21	Peak	203	342
5	10520.00	57.84	68.20	-10.36	42.43	15.41	Peak	218	304
6	15780.00	48.46	54.00	-5.54	32.68	15.78	Average	186	285
7	15780.00	60.39	74.00	-13.61	44.61	15.78	Peak	186	285

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

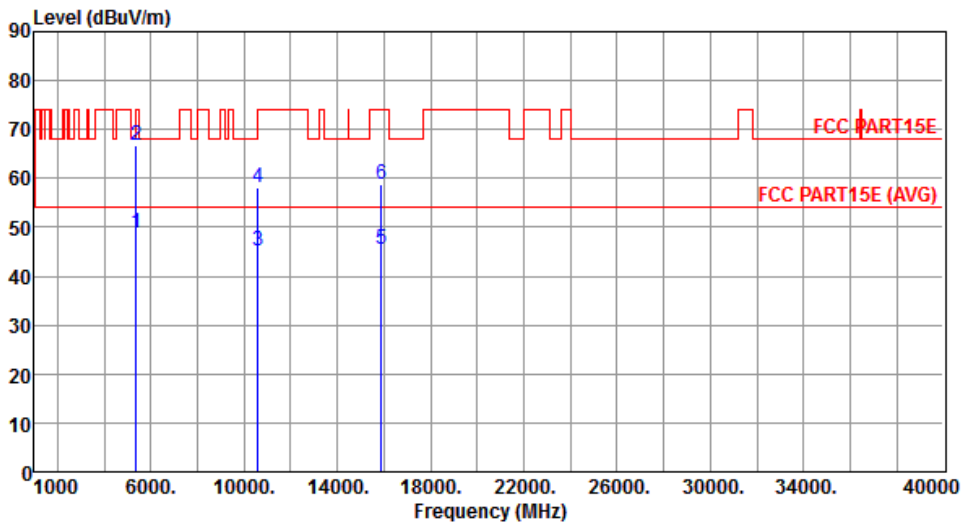
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.21	54.00	-7.79	40.34	5.87	Average	214	161
2	5150.00	59.16	74.00	-14.84	53.29	5.87	Peak	214	161
3	5350.00	46.25	54.00	-7.75	40.04	6.21	Average	214	161
4	5350.00	59.31	74.00	-14.69	53.10	6.21	Peak	214	161
5	10520.00	59.15	68.20	-9.05	43.74	15.41	Peak	189	165
6	15780.00	45.54	54.00	-8.46	29.76	15.78	Average	188	243
7	15780.00	59.13	74.00	-14.87	43.35	15.78	Peak	188	243

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

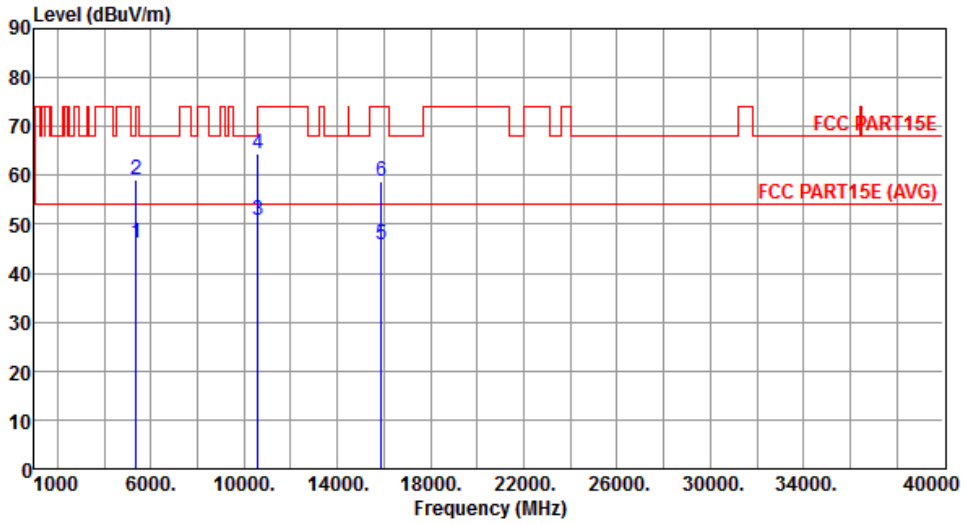
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.80	54.00	-5.20	42.59	6.21	Average	214	340
2	5350.00	66.92	74.00	-7.08	60.71	6.21	Peak	214	340
3	10600.00	45.03	54.00	-8.97	29.57	15.46	Average	219	306
4	10600.00	58.24	74.00	-15.76	42.78	15.46	Peak	219	306
5	15900.00	45.62	54.00	-8.38	29.98	15.64	Average	183	291
6	15900.00	58.94	74.00	-15.06	43.30	15.64	Peak	183	291

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

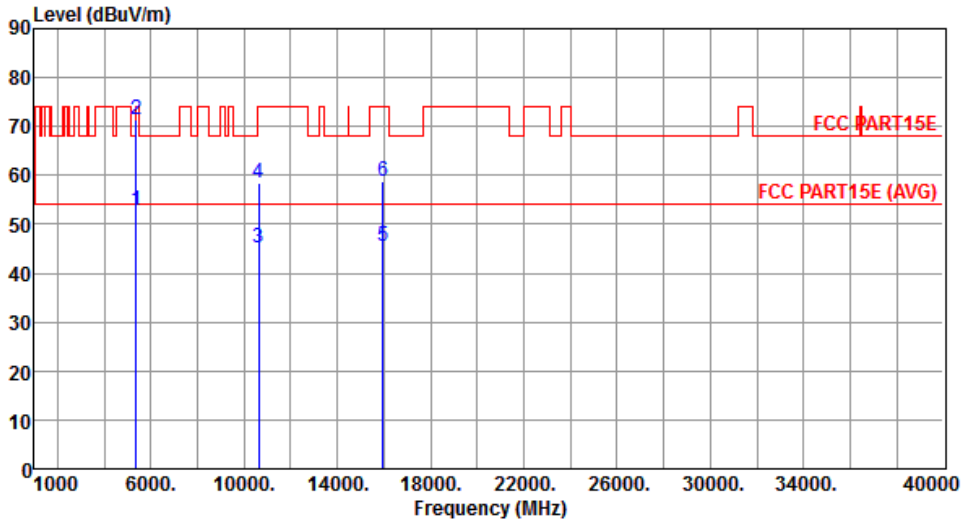
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.12	54.00	-7.88	39.91	6.21	Average	215	161
2	5350.00	59.28	74.00	-14.72	53.07	6.21	Peak	215	161
3	10600.00	50.95	54.00	-3.05	35.49	15.46	Average	191	165
4	10600.00	64.28	74.00	-9.72	48.82	15.46	Peak	191	165
5	15900.00	45.88	54.00	-8.12	30.24	15.64	Average	191	245
6	15900.00	58.63	74.00	-15.37	42.99	15.64	Peak	191	245

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

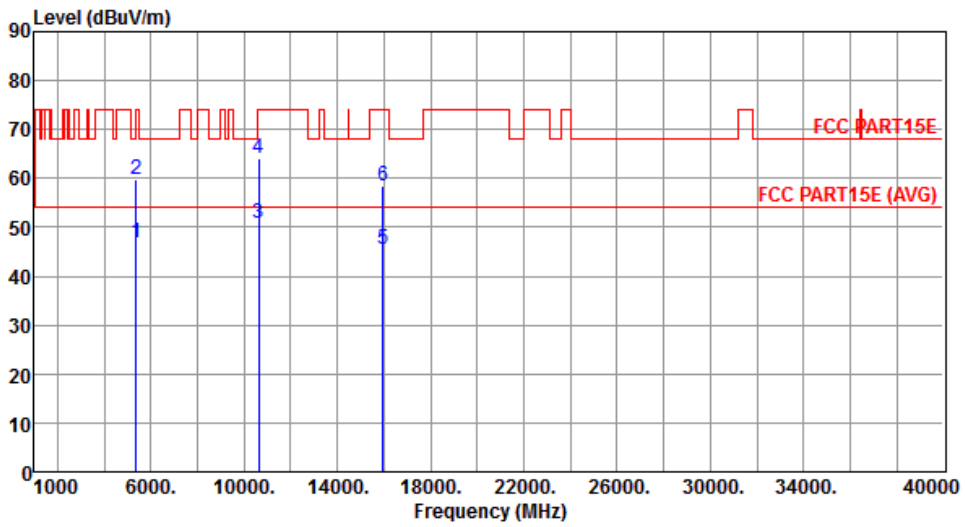
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.92	54.00	-1.08	46.71	6.21	Average	206	343
2	5350.00	71.36	74.00	-2.64	65.15	6.21	Peak	206	343
3	10640.00	45.15	54.00	-8.85	29.66	15.49	Average	221	304
4	10640.00	58.36	74.00	-15.64	42.87	15.49	Peak	221	304
5	15960.00	45.38	54.00	-8.62	29.81	15.57	Average	184	296
6	15960.00	58.81	74.00	-15.19	43.24	15.57	Peak	184	296

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

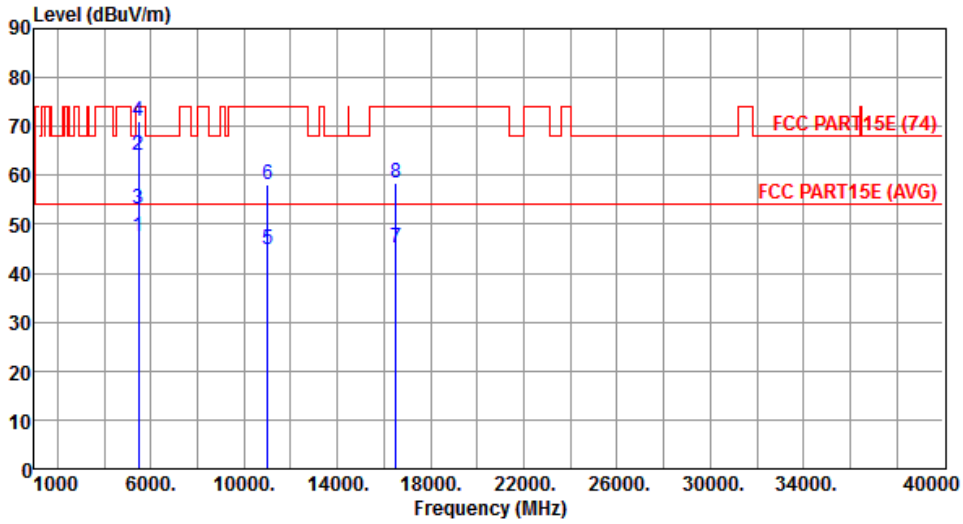
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.85	54.00	-7.15	40.64	6.21	Average	216	165
2	5350.00	59.92	74.00	-14.08	53.71	6.21	Peak	216	165
3	10640.00	50.86	54.00	-3.14	35.37	15.49	Average	193	166
4	10640.00	64.13	74.00	-9.87	48.64	15.49	Peak	193	166
5	15960.00	45.64	54.00	-8.36	30.07	15.57	Average	193	248
6	15960.00	58.41	74.00	-15.59	42.84	15.57	Peak	193	248

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

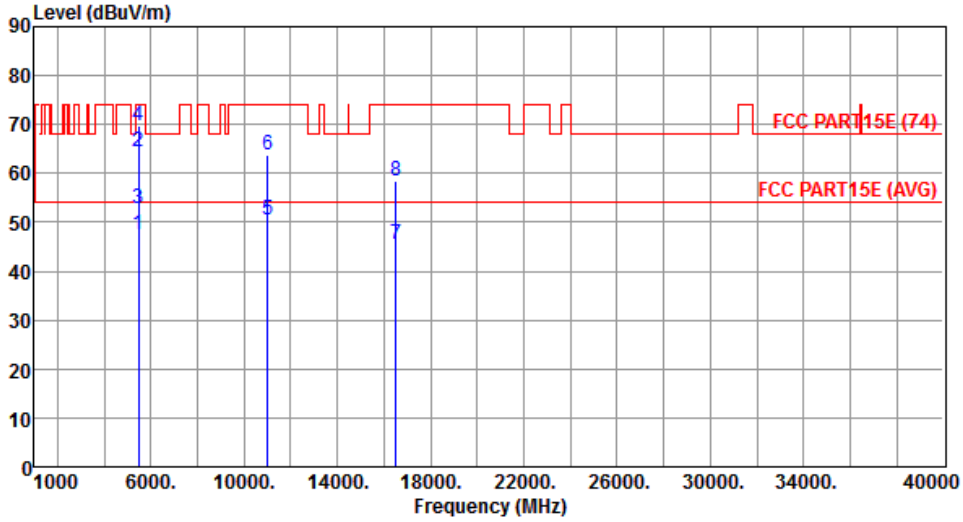
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.42	54.00	-6.58	41.06	6.36	Average	184	351
2	5460.00	64.04	74.00	-9.96	57.68	6.36	Peak	184	351
3	5470.00	52.98	54.00	-1.02	46.61	6.37	Average	184	351
4	5470.00	71.13	74.00	-2.87	64.76	6.37	Peak	184	351
5	11000.00	44.89	54.00	-9.11	29.15	15.74	Average	206	305
6	11000.00	58.02	74.00	-15.98	42.28	15.74	Peak	206	305
7	16500.00	45.02	54.00	-8.98	28.99	16.03	Average	189	301
8	16500.00	58.41	74.00	-15.59	42.38	16.03	Peak	189	301

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

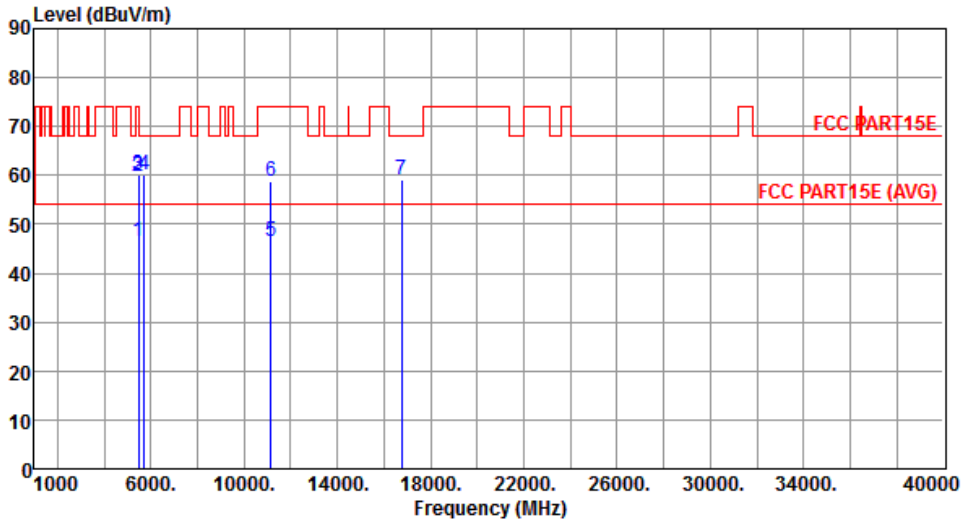
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.65	54.00	-6.35	41.29	6.36	Average	208	169
2	5460.00	64.58	74.00	-9.42	58.22	6.36	Peak	208	169
3	5470.00	52.91	54.00	-1.09	46.54	6.37	Average	208	169
4	5470.00	69.63	74.00	-4.37	63.26	6.37	Peak	208	169
5	11000.00	50.41	54.00	-3.59	34.67	15.74	Average	188	162
6	11000.00	63.82	74.00	-10.18	48.08	15.74	Peak	188	162
7	16500.00	45.58	54.00	-8.42	29.55	16.03	Average	195	248
8	16500.00	58.36	74.00	-15.64	42.33	16.03	Peak	195	248

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

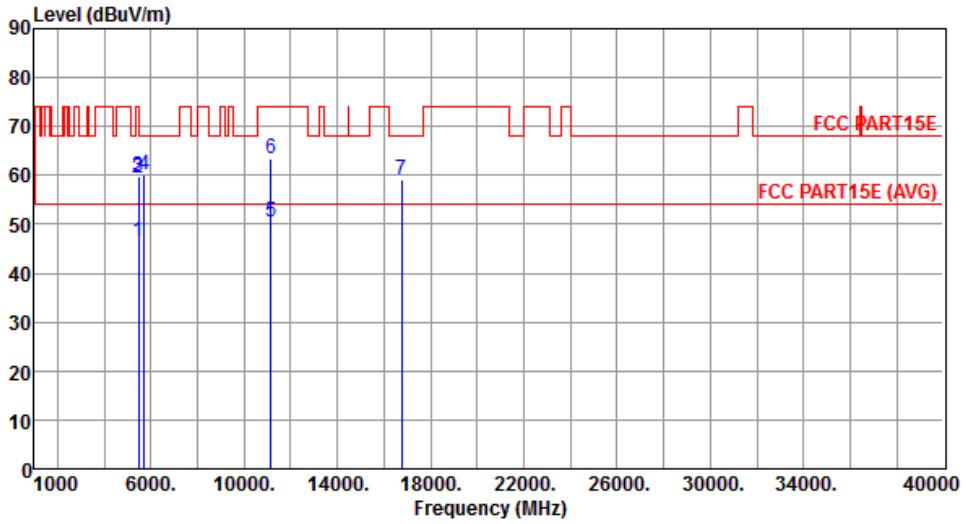
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.58	54.00	-7.42	40.22	6.36	Average	189	348
2	5460.00	59.81	74.00	-14.19	53.45	6.36	Peak	189	348
3	5470.00	60.02	68.20	-8.18	53.65	6.37	Peak	189	348
4	5725.00	60.14	68.20	-8.06	53.31	6.83	Peak	189	348
5	11160.00	46.42	54.00	-7.58	30.59	15.83	Average	208	305
6	11160.00	58.63	74.00	-15.37	42.80	15.83	Peak	208	305
7	16740.00	59.21	68.20	-8.99	42.41	16.80	Peak	193	295

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

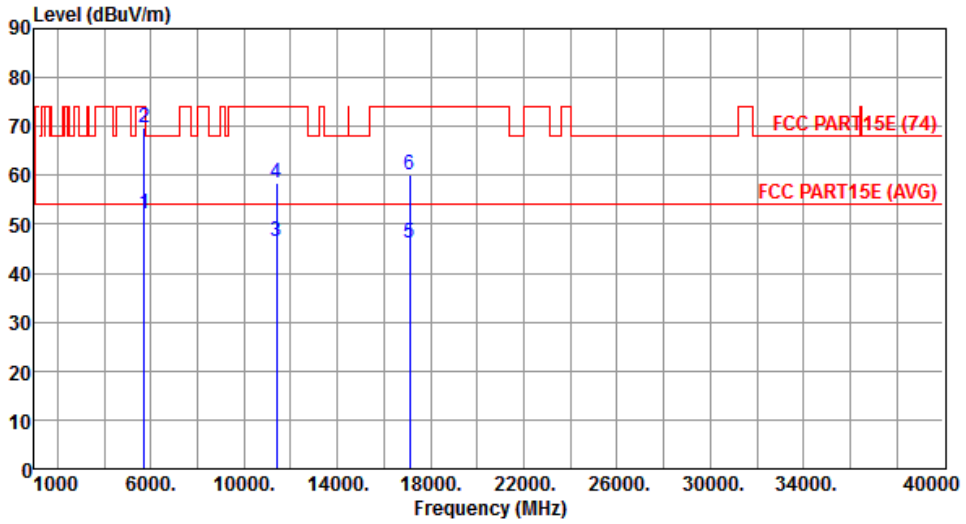
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.35	54.00	-7.65	39.99	6.36	Average	210	168
2	5460.00	59.41	74.00	-14.59	53.05	6.36	Peak	210	168
3	5470.00	59.76	68.20	-8.44	53.39	6.37	Peak	210	168
4	5725.00	60.11	68.20	-8.09	53.28	6.83	Peak	210	168
5	11160.00	50.32	54.00	-3.68	34.49	15.83	Average	194	166
6	11160.00	63.54	74.00	-10.46	47.71	15.83	Peak	194	166
7	16740.00	59.28	68.20	-8.92	42.48	16.80	Peak	195	248

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

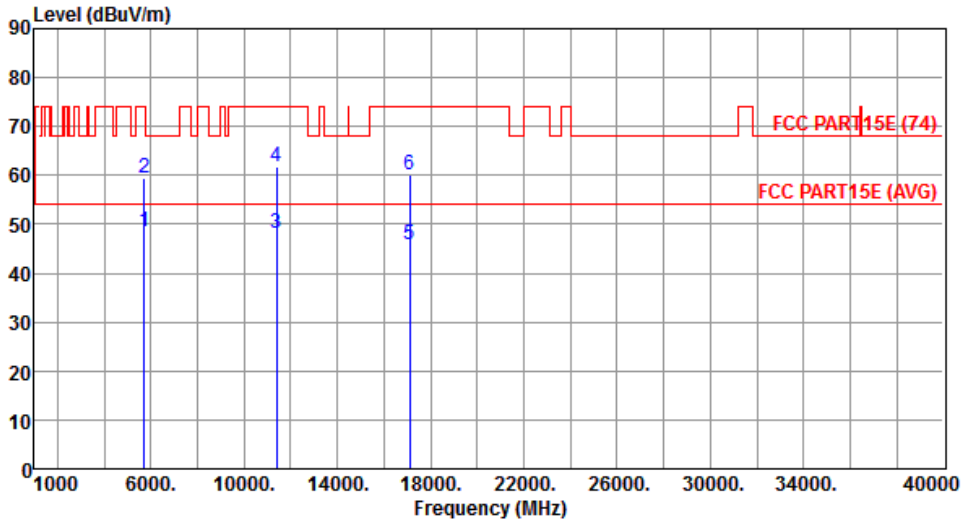
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.18	54.00	-1.82	45.35	6.83	Average	189	349
2	5725.00	69.79	74.00	-4.21	62.96	6.83	Peak	189	349
3	11400.00	46.35	54.00	-7.65	30.39	15.96	Average	210	305
4	11400.00	58.49	74.00	-15.51	42.53	15.96	Peak	210	305
5	17100.00	46.14	54.00	-7.86	28.18	17.96	Average	206	311
6	17100.00	60.25	74.00	-13.75	42.29	17.96	Peak	206	311

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

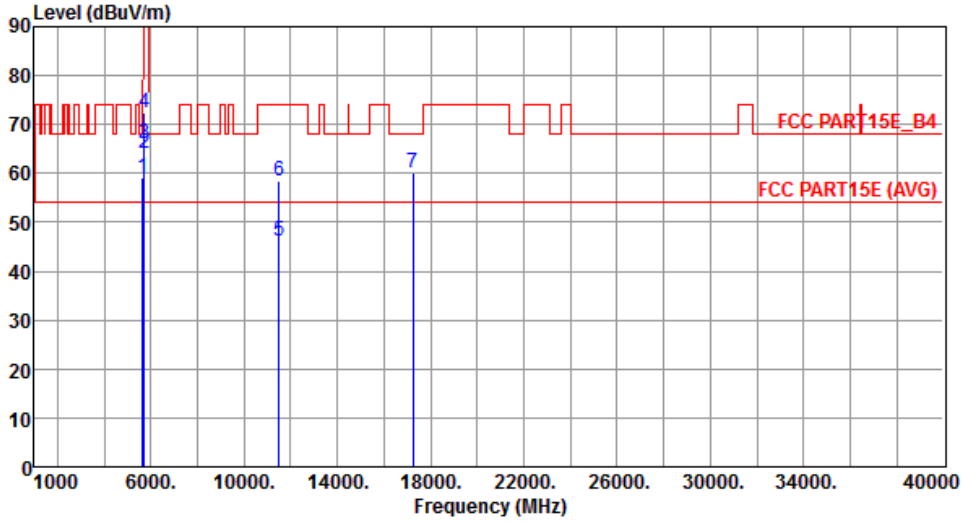
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	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	48.57	54.00	-5.43	41.74	6.83	Average	208	169
2	5725.00	59.42	74.00	-14.58	52.59	6.83	Peak	208	169
3	11400.00	48.25	54.00	-5.75	32.29	15.96	Average	196	153
4	11400.00	61.65	74.00	-12.35	45.69	15.96	Peak	196	153
5	17100.00	45.81	54.00	-8.19	27.85	17.96	Average	203	153
6	17100.00	60.05	74.00	-13.95	42.09	17.96	Peak	203	153

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

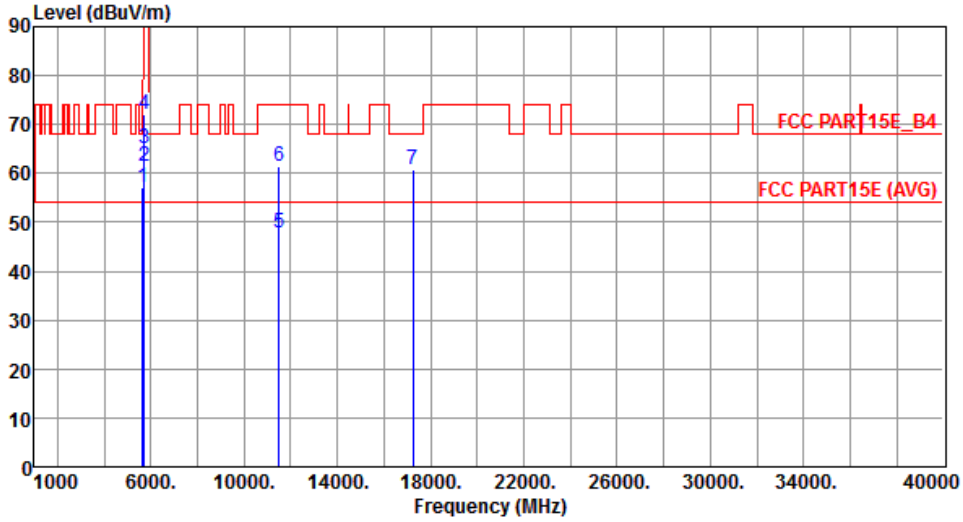
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.24	68.20	-8.96	52.61	6.63	Peak	188	349
2	5700.00	64.19	105.20	-41.01	57.42	6.77	Peak	188	349
3	5720.00	66.15	110.80	-44.65	59.33	6.82	Peak	188	349
4	5725.00	72.32	122.20	-49.88	65.49	6.83	Peak	188	349
5	11490.00	46.21	54.00	-7.79	30.20	16.01	Average	211	308
6	11490.00	58.39	74.00	-15.61	42.38	16.01	Peak	211	308
7	17235.00	60.14	68.20	-8.06	41.71	18.43	Peak	209	311

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

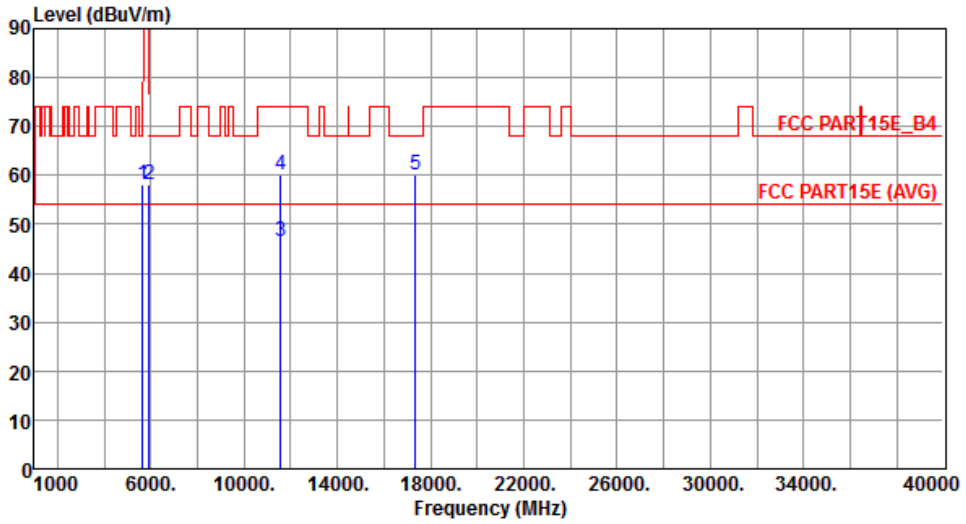
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.21	68.20	-10.99	50.58	6.63	Peak	210	165
2	5700.00	61.49	105.20	-43.71	54.72	6.77	Peak	210	165
3	5720.00	65.20	110.80	-45.60	58.38	6.82	Peak	210	165
4	5725.00	71.95	122.20	-50.25	65.12	6.83	Peak	210	165
5	11490.00	47.85	54.00	-6.15	31.84	16.01	Average	202	161
6	11490.00	61.53	74.00	-12.47	45.52	16.01	Peak	202	161
7	17235.00	60.68	68.20	-7.52	42.25	18.43	Peak	202	161

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

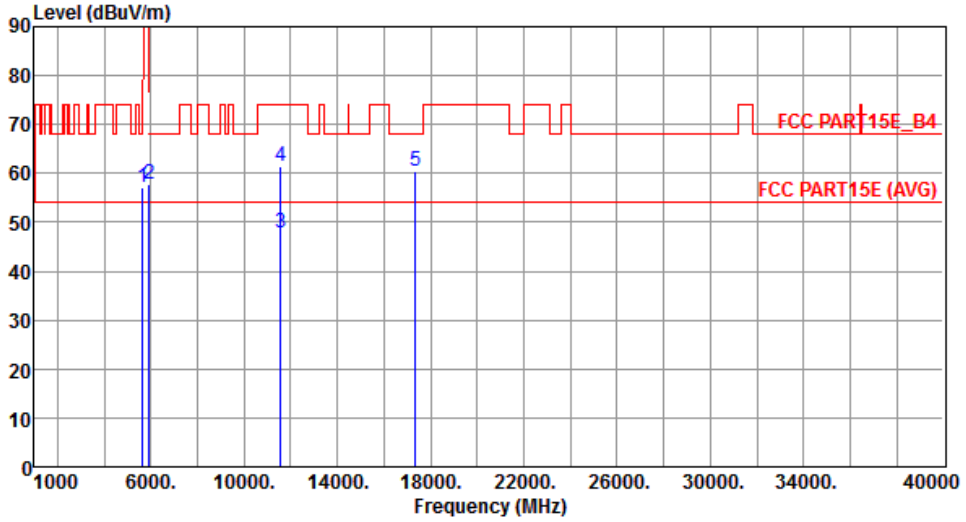
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.21	68.20	-9.99	51.58	6.63	Peak	189	349
2	5925.00	58.21	68.20	-9.99	50.87	7.34	Peak	189	349
3	11570.00	46.36	54.00	-7.64	30.47	15.89	Average	209	308
4	11570.00	60.24	74.00	-13.76	44.35	15.89	Peak	209	308
5	17355.00	60.25	68.20	-7.95	41.43	18.82	Peak	212	314

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

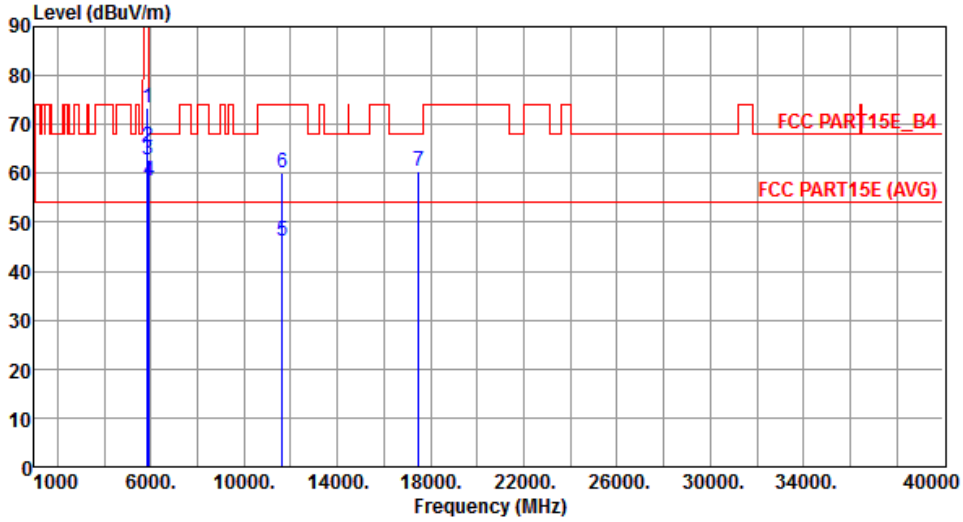
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.28	68.20	-10.92	50.65	6.63	Peak	208	166
2	5925.00	57.87	68.20	-10.33	50.53	7.34	Peak	208	166
3	11570.00	47.92	54.00	-6.08	32.03	15.89	Average	203	161
4	11570.00	61.58	74.00	-12.42	45.69	15.89	Peak	203	161
5	17355.00	60.54	68.20	-7.66	41.72	18.82	Peak	205	169

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

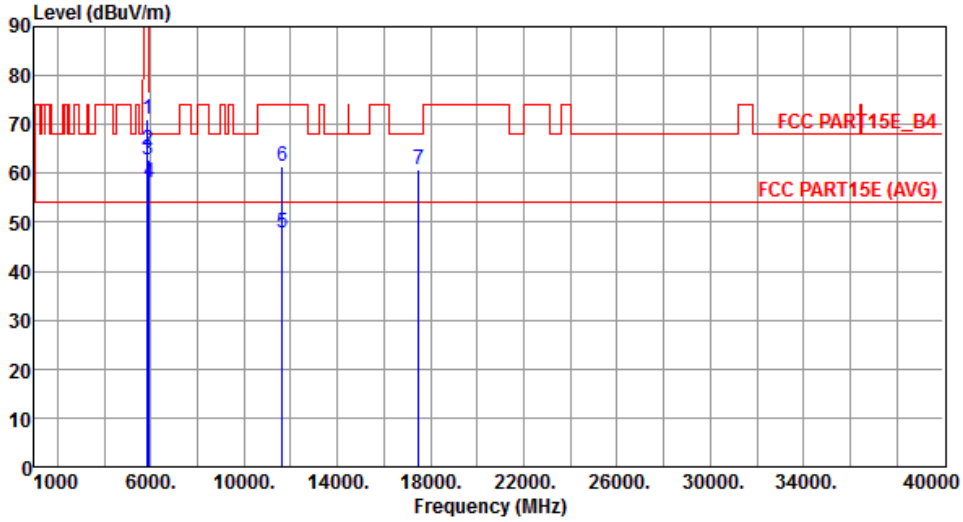
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	73.41	122.20	-48.79	66.25	7.16	Peak	191	348
2	5855.00	65.58	110.80	-45.22	58.40	7.18	Peak	191	348
3	5875.00	62.86	105.20	-42.34	55.63	7.23	Peak	191	348
4	5925.00	58.42	68.20	-9.78	51.08	7.34	Peak	191	348
5	11650.00	46.21	54.00	-7.79	30.47	15.74	Average	210	301
6	11650.00	60.15	74.00	-13.85	44.41	15.74	Peak	210	301
7	17475.00	60.35	68.20	-7.85	41.12	19.23	Peak	206	294

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

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

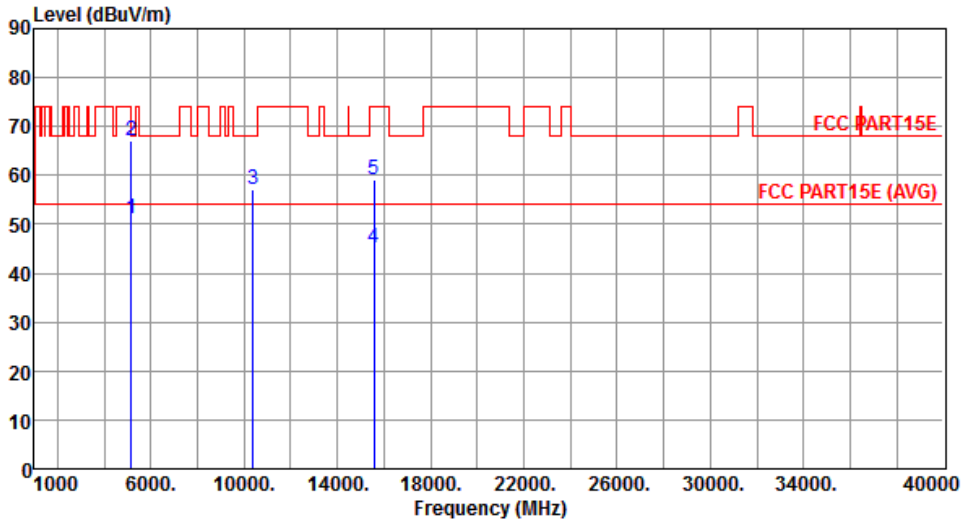


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	71.18	122.20	-51.02	64.02	7.16	Peak	203	164
2	5855.00	64.62	110.80	-46.18	57.44	7.18	Peak	203	164
3	5875.00	62.64	105.20	-42.56	55.41	7.23	Peak	203	164
4	5925.00	58.04	68.20	-10.16	50.70	7.34	Peak	203	164
5	11650.00	47.84	54.00	-6.16	32.10	15.74	Average	205	161
6	11650.00	61.42	74.00	-12.58	45.68	15.74	Peak	205	161
7	17475.00	60.83	68.20	-7.37	41.60	19.23	Peak	203	159

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

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

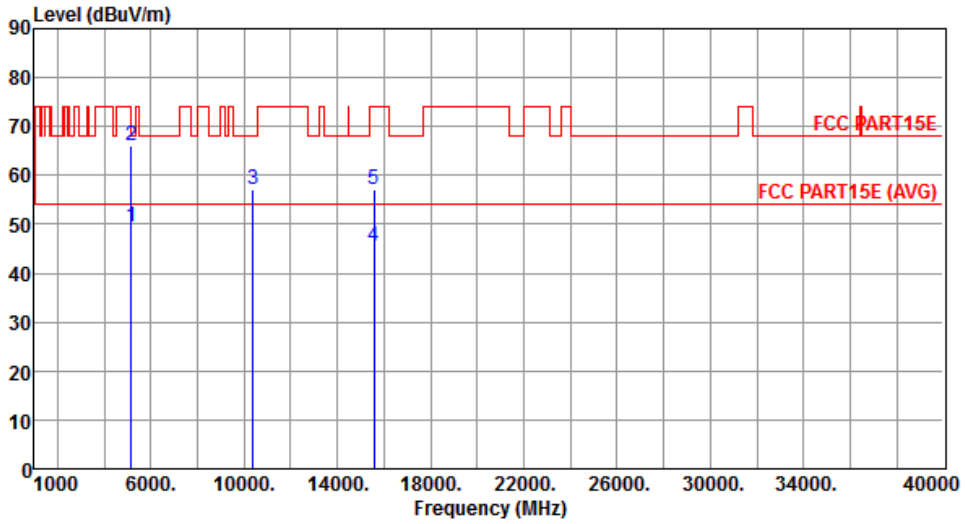
Modulation	VHT40	**Test Freq. (MHz)**	5190
Polarization	Horizontal		



	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	51.08	54.00	-2.92	45.21	5.87	Average	188	348
2	5150.00	67.11	74.00	-6.89	61.24	5.87	Peak	188	348
3	10380.00	57.23	68.20	-10.97	41.98	15.25	Peak	161	203
4	15570.00	45.31	54.00	-8.69	29.27	16.04	Average	133	162
5	15570.00	59.14	74.00	-14.86	43.10	16.04	Peak	133	162

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

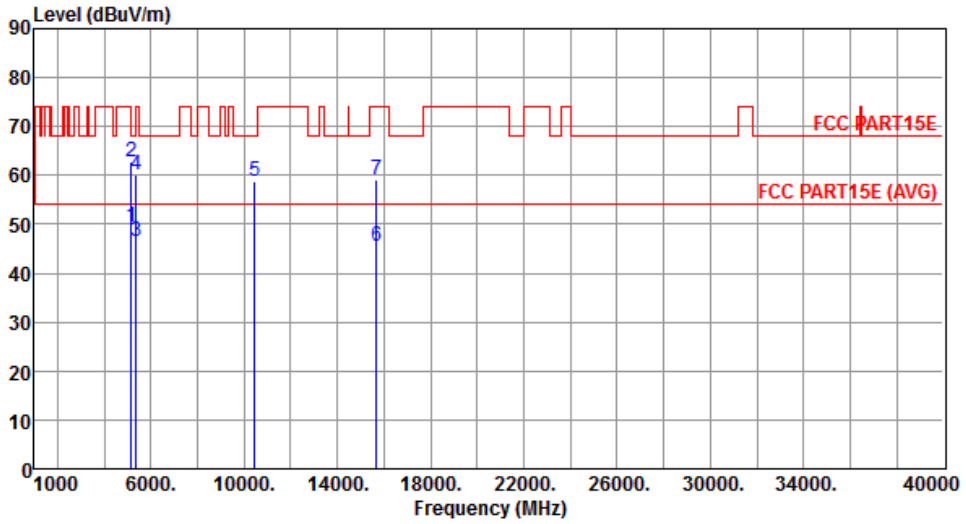
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.45	54.00	-4.55	43.58	5.87	Average	211	265
2	5150.00	66.12	74.00	-7.88	60.25	5.87	Peak	211	265
3	10380.00	57.21	68.20	-10.99	41.96	15.25	Peak	185	174
4	15570.00	45.42	54.00	-8.58	29.38	16.04	Average	181	204
5	15570.00	57.19	74.00	-16.81	41.15	16.04	Peak	181	204

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

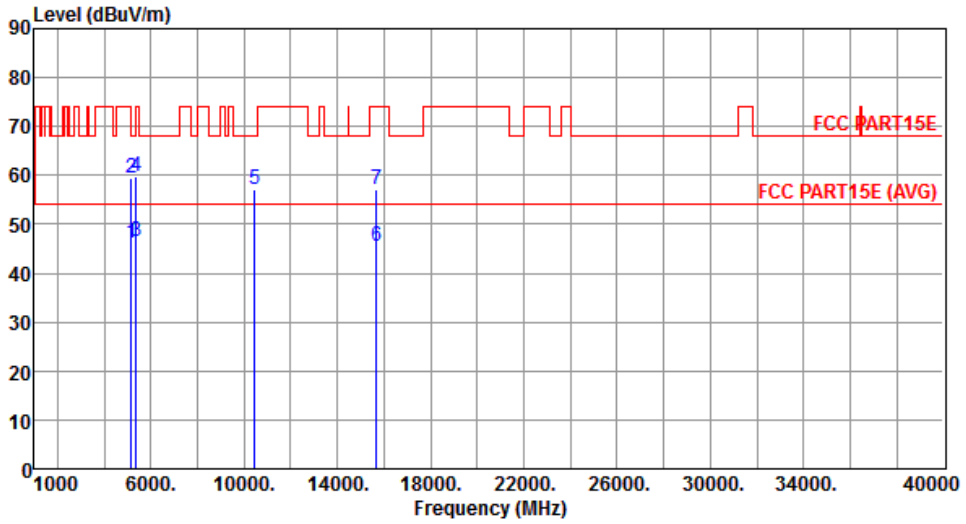
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.52	54.00	-4.48	43.65	5.87	Average	189	350
2	5150.00	62.81	74.00	-11.19	56.94	5.87	Peak	189	350
3	5350.00	46.43	54.00	-7.57	40.22	6.21	Average	189	350
4	5350.00	60.00	74.00	-14.00	53.79	6.21	Peak	189	350
5	10460.00	58.62	68.20	-9.58	43.28	15.34	Peak	165	194
6	15690.00	45.38	54.00	-8.62	29.49	15.89	Average	160	198
7	15690.00	59.24	74.00	-14.76	43.35	15.89	Peak	160	198

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

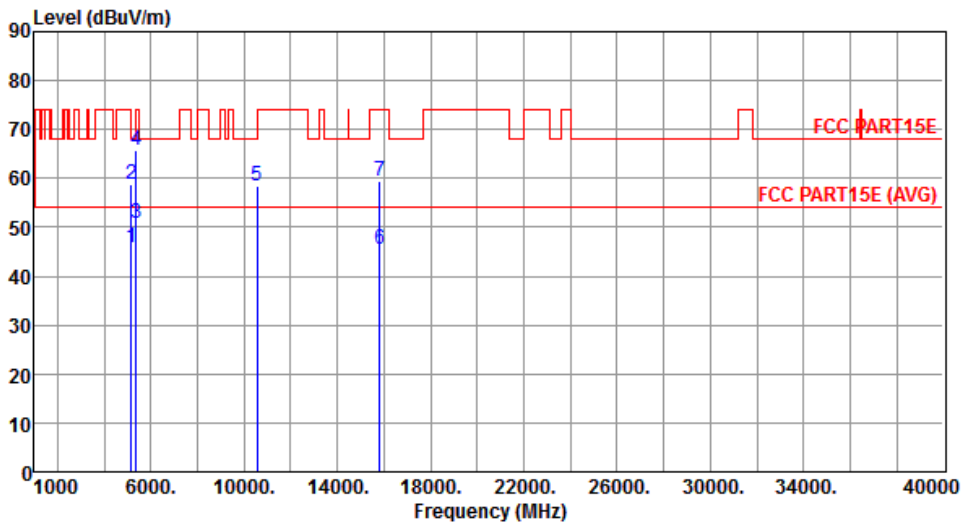
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	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	46.21	54.00	-7.79	40.34	5.87	Average	210	265
2	5150.00	59.35	74.00	-14.65	53.48	5.87	Peak	210	265
3	5350.00	46.38	54.00	-7.62	40.17	6.21	Average	210	265
4	5350.00	59.77	74.00	-14.23	53.56	6.21	Peak	210	265
5	10460.00	57.12	68.20	-11.08	41.78	15.34	Peak	176	163
6	15690.00	45.61	54.00	-8.39	29.72	15.89	Average	178	201
7	15690.00	57.26	74.00	-16.74	41.37	15.89	Peak	178	201

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

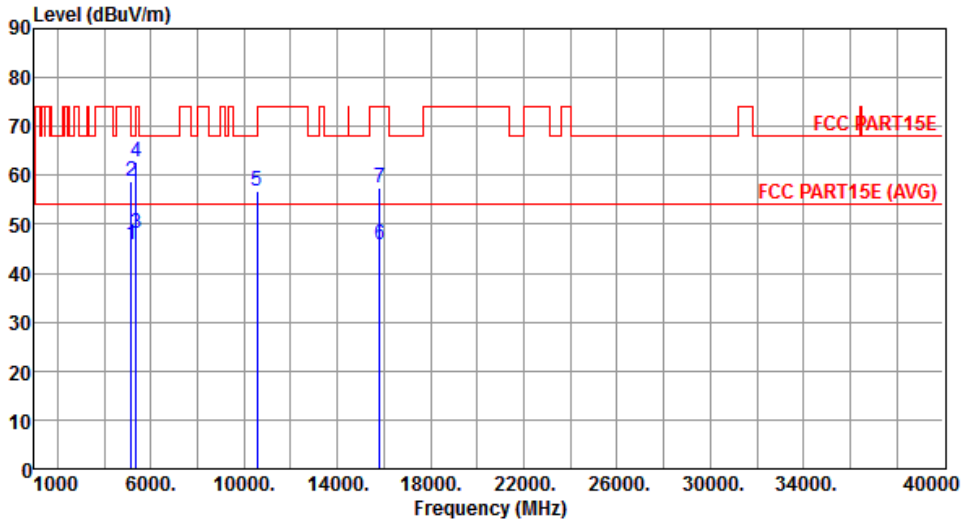
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.86	54.00	-8.14	39.99	5.87	Average	188	348
2	5150.00	58.69	74.00	-15.31	52.82	5.87	Peak	188	348
3	5350.00	50.87	54.00	-3.13	44.66	6.21	Average	188	348
4	5350.00	65.78	74.00	-8.22	59.57	6.21	Peak	188	348
5	10540.00	58.53	68.20	-9.67	43.11	15.42	Peak	166	194
6	15810.00	45.46	54.00	-8.54	29.71	15.75	Average	172	184
7	15810.00	59.35	74.00	-14.65	43.60	15.75	Peak	172	184

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

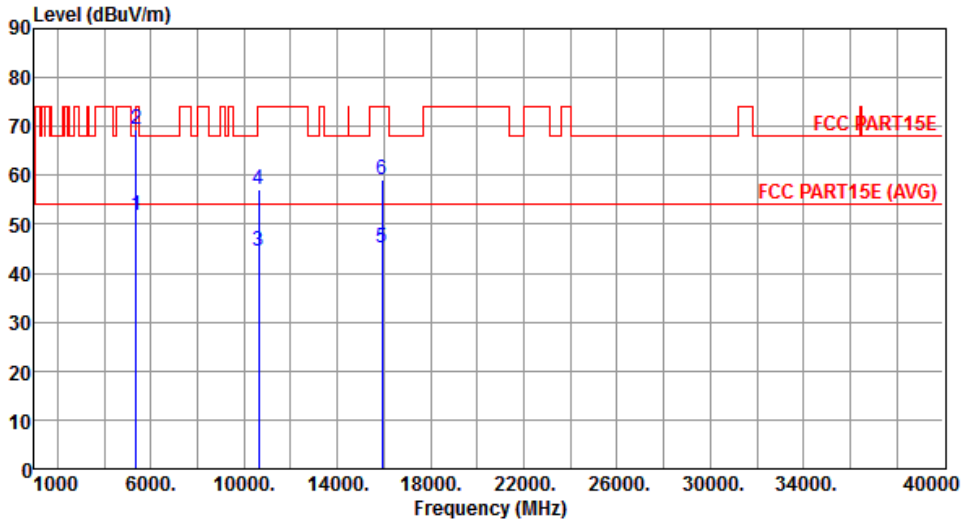
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.92	54.00	-8.08	40.05	5.87	Average	206	263
2	5150.00	58.74	74.00	-15.26	52.87	5.87	Peak	206	263
3	5350.00	48.29	54.00	-5.71	42.08	6.21	Average	206	263
4	5350.00	62.75	74.00	-11.25	56.54	6.21	Peak	206	263
5	10540.00	56.91	68.20	-11.29	41.49	15.42	Peak	183	157
6	15810.00	45.84	54.00	-8.16	30.09	15.75	Average	182	209
7	15810.00	57.41	74.00	-16.59	41.66	15.75	Peak	182	209

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

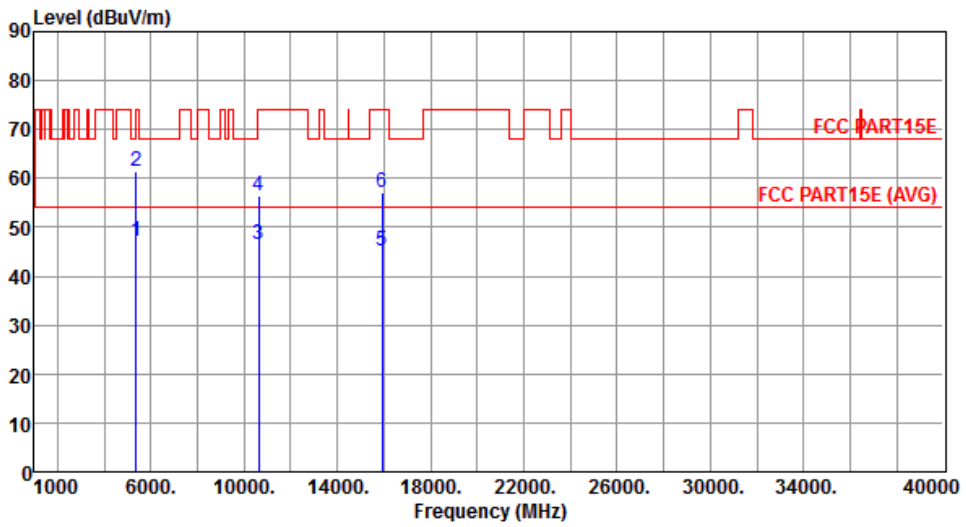
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	51.96	54.00	-2.04	45.75	6.21	Average	189	348
2	5350.00	69.56	74.00	-4.44	63.35	6.21	Peak	189	348
3	10620.00	44.65	54.00	-9.35	29.17	15.48	Average	159	203
4	10620.00	57.28	74.00	-16.72	41.80	15.48	Peak	159	203
5	15930.00	45.21	54.00	-8.79	29.61	15.60	Average	161	206
6	15930.00	59.02	74.00	-14.98	43.42	15.60	Peak	161	206

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

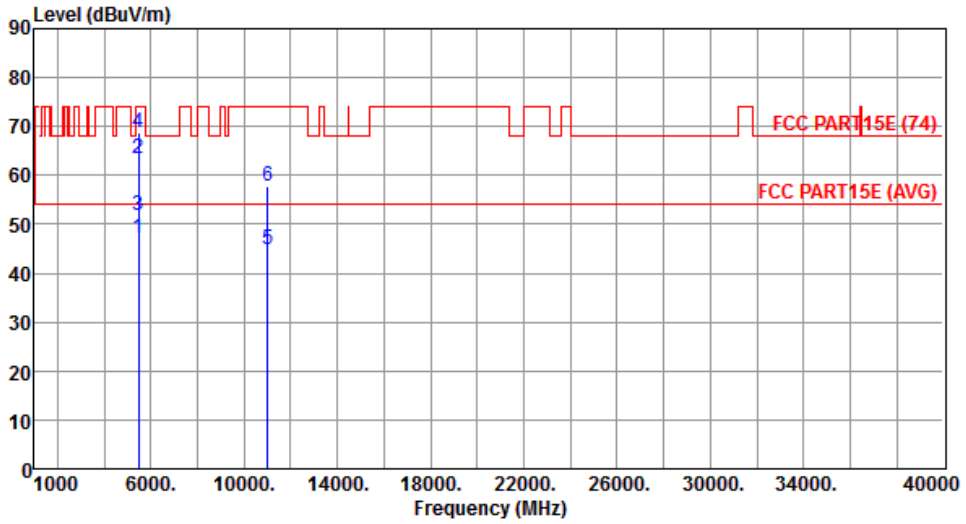
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.13	54.00	-6.87	40.92	6.21	Average	208	263
2	5350.00	61.45	74.00	-12.55	55.24	6.21	Peak	208	263
3	10620.00	46.63	54.00	-7.37	31.15	15.48	Average	175	145
4	10620.00	56.45	74.00	-17.55	40.97	15.48	Peak	175	145
5	15930.00	45.21	54.00	-8.79	29.61	15.60	Average	181	145
6	15930.00	57.06	74.00	-16.94	41.46	15.60	Peak	181	145

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

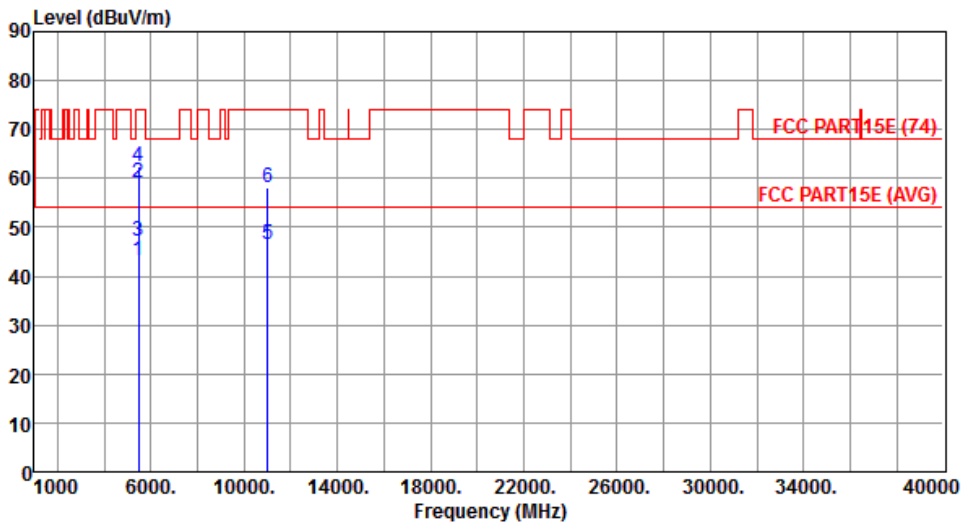
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.03	54.00	-6.97	40.67	6.36	Average	188	346
2	5460.00	63.40	74.00	-10.60	57.04	6.36	Peak	188	346
3	5470.00	51.79	54.00	-2.21	45.42	6.37	Average	188	346
4	5470.00	68.58	74.00	-5.42	62.21	6.37	Peak	188	346
5	11020.00	44.89	54.00	-9.11	29.14	15.75	Average	161	209
6	11020.00	57.62	74.00	-16.38	41.87	15.75	Peak	161	209

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

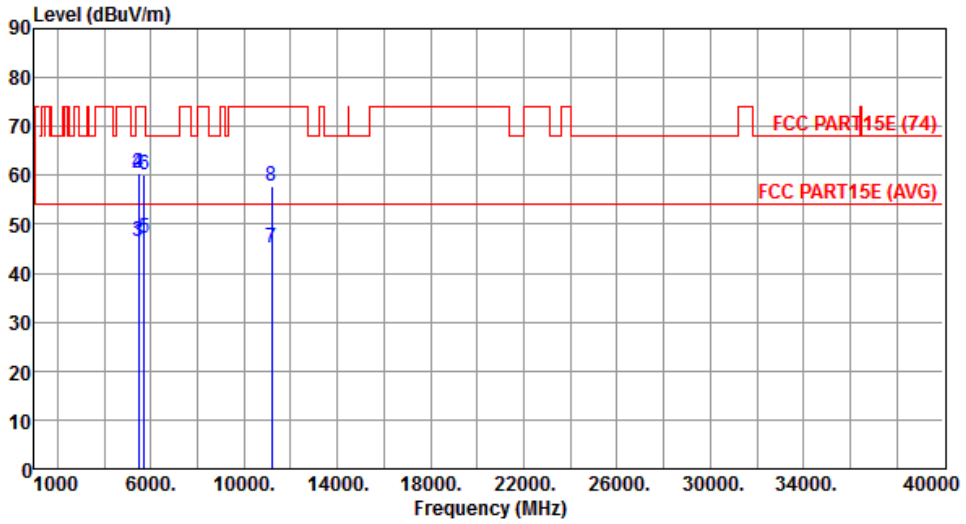
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	43.21	54.00	-10.79	36.85	6.36	Average	210	259
2	5460.00	59.08	74.00	-14.92	52.72	6.36	Peak	210	259
3	5470.00	47.25	54.00	-6.75	40.88	6.37	Average	210	259
4	5470.00	62.44	74.00	-11.56	56.07	6.37	Peak	210	259
5	11020.00	46.51	54.00	-7.49	30.76	15.75	Average	177	142
6	11020.00	58.24	74.00	-15.76	42.49	15.75	Peak	177	142

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

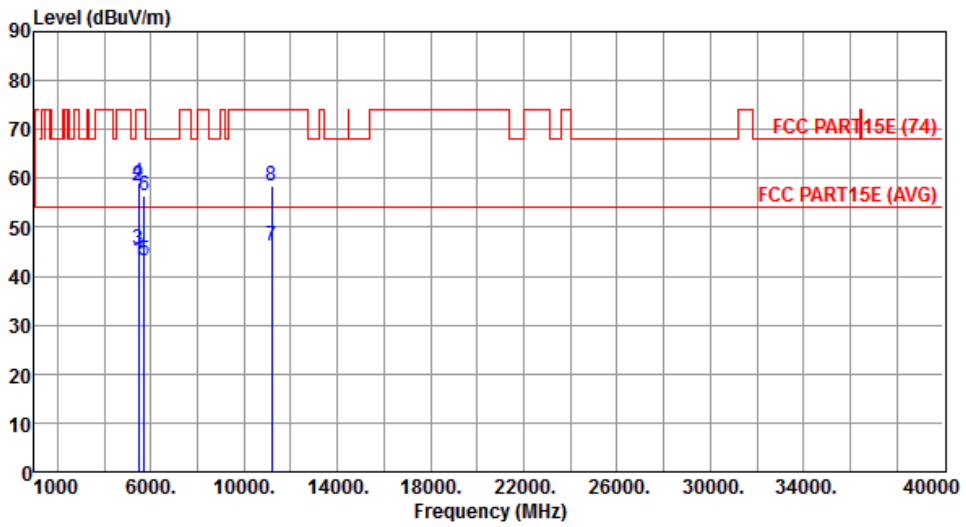
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		



	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	46.18	54.00	-7.82	39.82	6.36	Average	189	348
2	5460.00	60.50	74.00	-13.50	54.14	6.36	Peak	189	348
3	5470.00	46.49	54.00	-7.51	40.12	6.37	Average	189	348
4	5470.00	60.35	74.00	-13.65	53.98	6.37	Peak	189	348
5	5725.00	47.02	54.00	-6.98	40.19	6.83	Average	189	348
6	5725.00	59.99	74.00	-14.01	53.16	6.83	Peak	189	348
7	11180.00	45.21	54.00	-8.79	29.37	15.84	Average	169	233
8	11180.00	57.94	74.00	-16.06	42.10	15.84	Peak	169	233

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

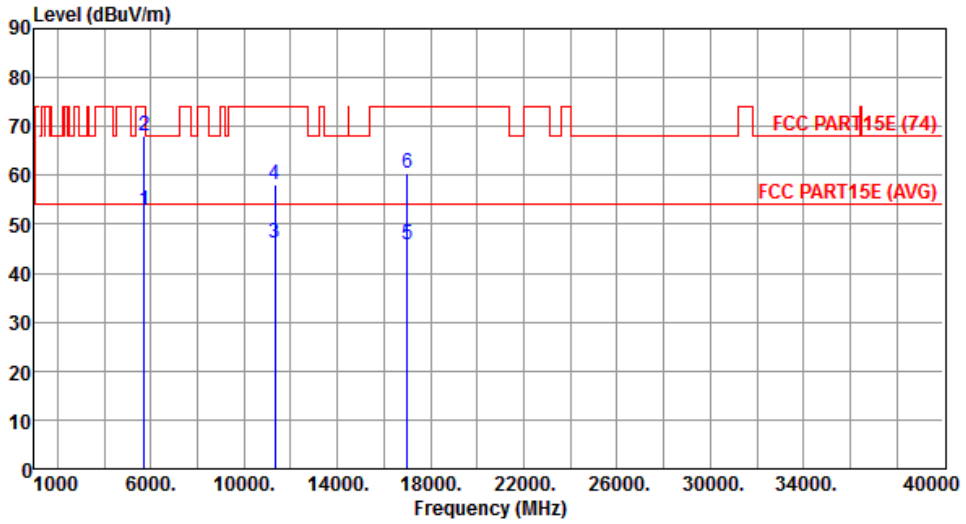
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		



	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	43.26	54.00	-10.74	36.90	6.36	Average	212	263
2	5460.00	58.44	74.00	-15.56	52.08	6.36	Peak	212	263
3	5470.00	45.53	54.00	-8.47	39.16	6.37	Average	212	263
4	5470.00	59.22	74.00	-14.78	52.85	6.37	Peak	212	263
5	5725.00	43.21	54.00	-10.79	36.38	6.83	Average	212	263
6	5725.00	56.31	74.00	-17.69	49.48	6.83	Peak	212	263
7	11180.00	46.19	54.00	-7.81	30.35	15.84	Average	165	138
8	11180.00	58.35	74.00	-15.65	42.51	15.84	Peak	165	138

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

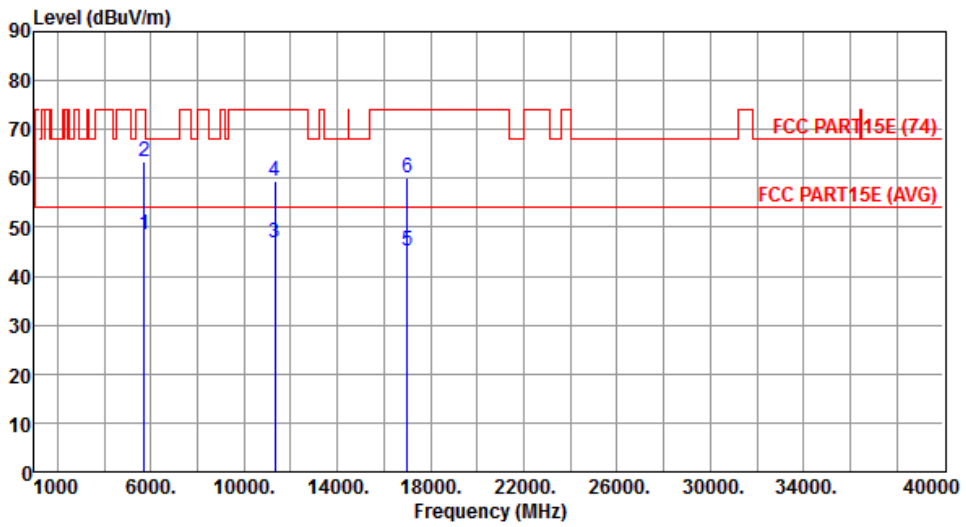
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	52.65	54.00	-1.35	45.82	6.83	Average	188	348
2	5725.00	68.04	74.00	-5.96	61.21	6.83	Peak	188	348
3	11340.00	46.25	54.00	-7.75	30.32	15.93	Average	166	239
4	11340.00	58.03	74.00	-15.97	42.10	15.93	Peak	166	239
5	17010.00	45.94	54.00	-8.06	28.29	17.65	Average	163	245
6	17010.00	60.45	74.00	-13.55	42.80	17.65	Peak	163	245

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

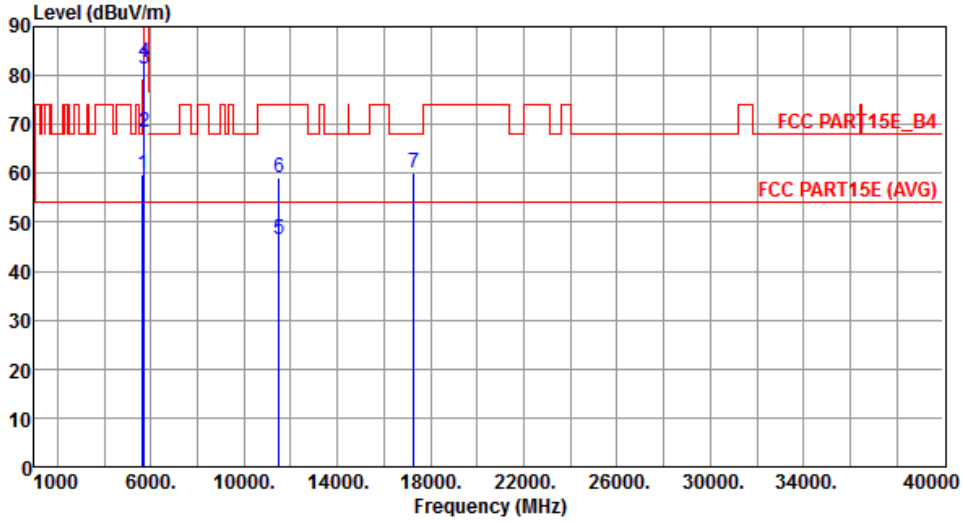
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	48.45	54.00	-5.55	41.62	6.83	Average	216	261
2	5725.00	63.51	74.00	-10.49	56.68	6.83	Peak	216	261
3	11340.00	46.95	54.00	-7.05	31.02	15.93	Average	158	142
4	11340.00	59.41	74.00	-14.59	43.48	15.93	Peak	158	142
5	17010.00	45.31	54.00	-8.69	27.66	17.65	Average	158	153
6	17010.00	59.96	74.00	-14.04	42.31	17.65	Peak	158	153

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

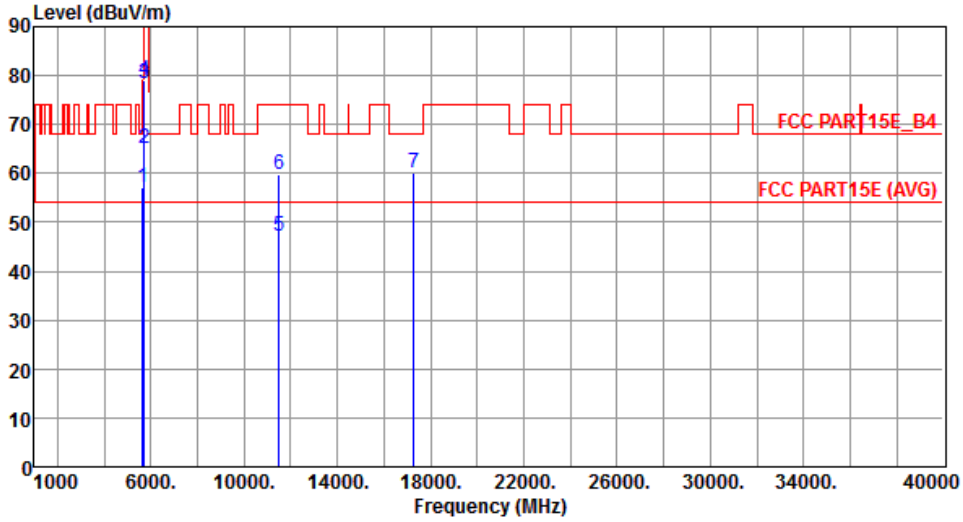
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.94	68.20	-8.26	53.31	6.63	Peak	190	346
2	5700.00	68.30	105.20	-36.90	61.53	6.77	Peak	190	346
3	5720.00	81.20	110.80	-29.60	74.38	6.82	Peak	190	346
4	5725.00	82.76	122.20	-39.44	75.93	6.83	Peak	190	346
5	11510.00	46.38	54.00	-7.62	30.38	16.00	Average	164	221
6	11510.00	59.24	74.00	-14.76	43.24	16.00	Peak	164	221
7	17265.00	60.23	68.20	-7.97	41.72	18.51	Peak	164	236

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

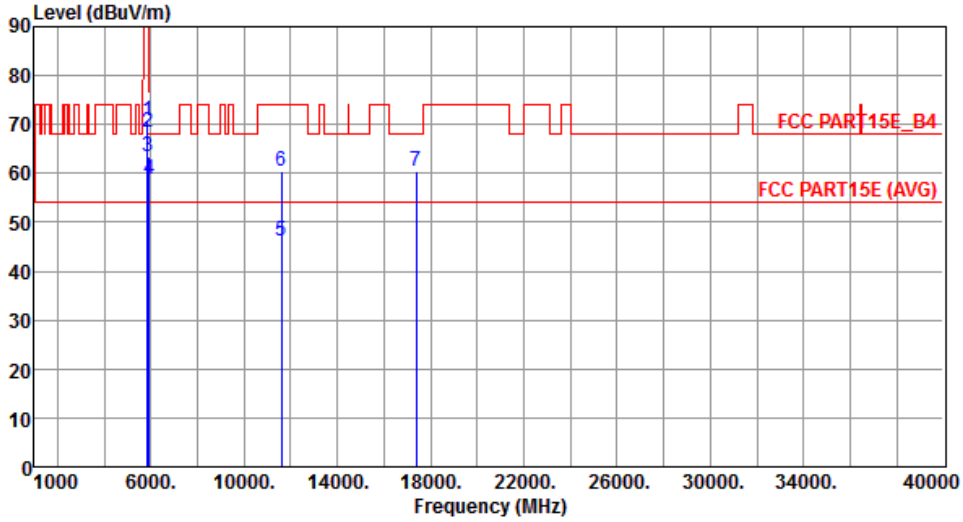
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	57.24	68.20	-10.96	50.61	6.63	Peak	211	253
2	5700.00	64.98	105.20	-40.22	58.21	6.77	Peak	211	253
3	5720.00	78.24	110.80	-32.56	71.42	6.82	Peak	211	253
4	5725.00	79.09	122.20	-43.11	72.26	6.83	Peak	211	253
5	11510.00	47.14	54.00	-6.86	31.14	16.00	Average	156	148
6	11510.00	59.65	74.00	-14.35	43.65	16.00	Peak	156	148
7	17265.00	60.23	68.20	-7.97	41.72	18.51	Peak	159	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).

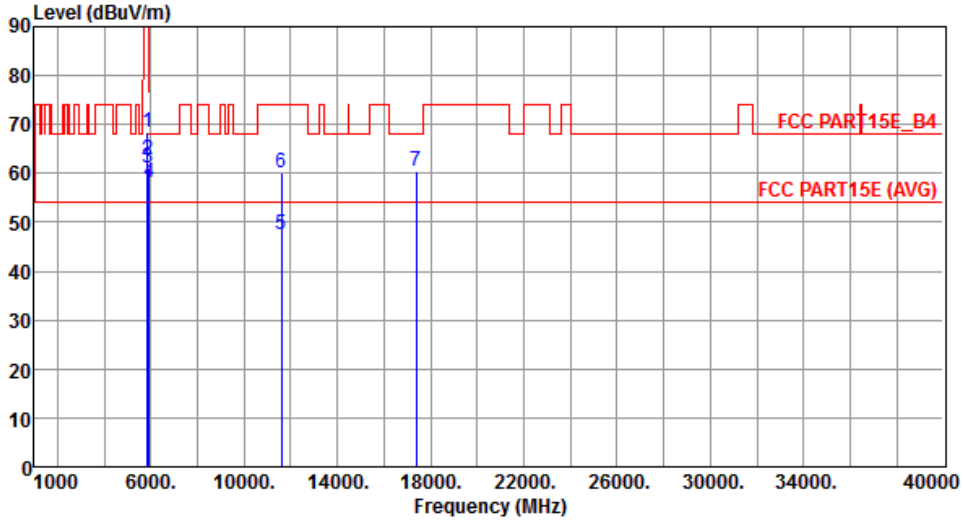
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	70.70	122.20	-51.50	63.54	7.16	Peak	189	345
2	5855.00	68.55	110.80	-42.25	61.37	7.18	Peak	189	345
3	5875.00	63.34	105.20	-41.86	56.11	7.23	Peak	189	345
4	5925.00	58.64	68.20	-9.56	51.30	7.34	Peak	189	345
5	11590.00	46.13	54.00	-7.87	30.28	15.85	Average	161	235
6	11590.00	60.45	74.00	-13.55	44.60	15.85	Peak	161	235
7	17385.00	60.49	68.20	-7.71	41.56	18.93	Peak	158	211

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

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

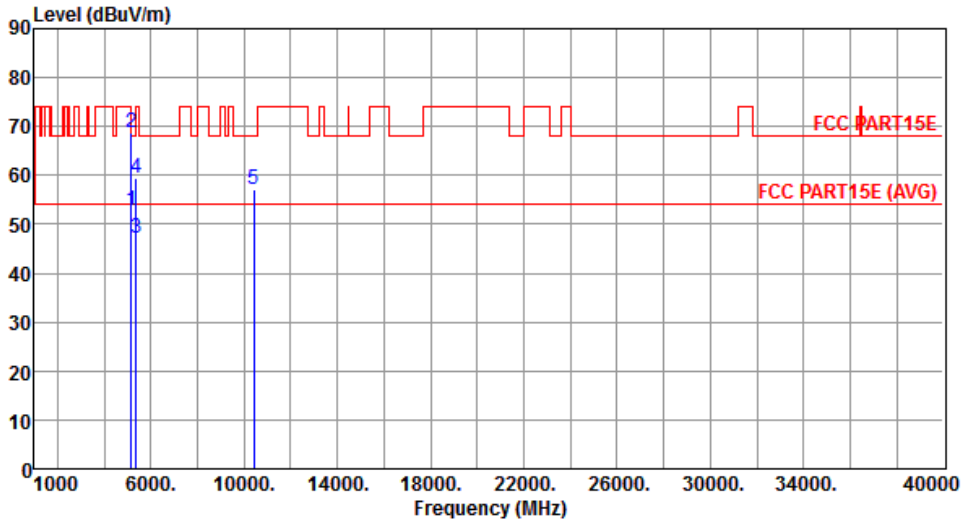


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5850.00	68.56	122.20	-53.64	61.40	7.16	Peak	208	247
2	5855.00	62.71	110.80	-48.09	55.53	7.18	Peak	208	247
3	5875.00	61.18	105.20	-44.02	53.95	7.23	Peak	208	247
4	5925.00	58.14	68.20	-10.06	50.80	7.34	Peak	208	247
5	11590.00	47.56	54.00	-6.44	31.71	15.85	Average	161	153
6	11590.00	60.22	74.00	-13.78	44.37	15.85	Peak	161	153
7	17385.00	60.46	68.20	-7.74	41.53	18.93	Peak	163	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).

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

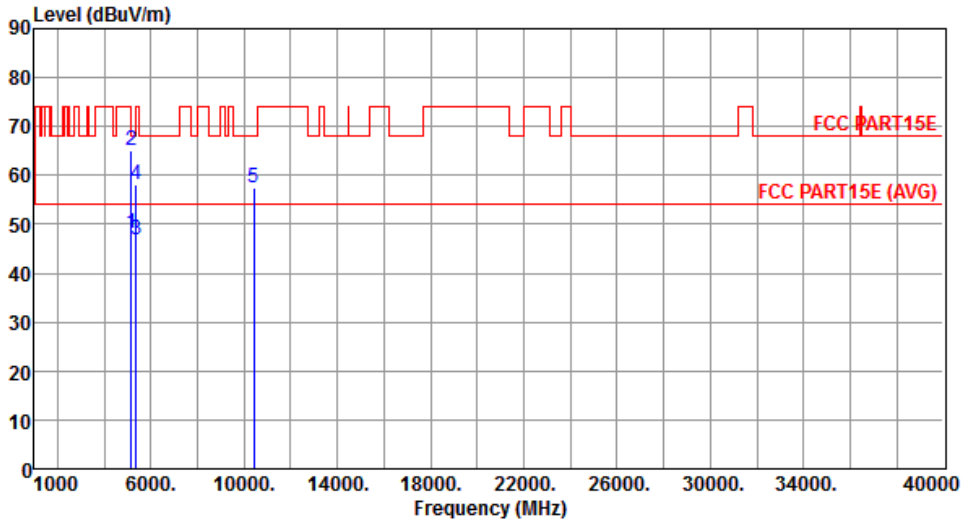
Modulation	VHT80	**Test Freq. (MHz)**	5210
Polarization	Horizontal		



	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	52.96	54.00	-1.04	47.09	5.87	Average	186	356
2	5150.00	68.67	74.00	-5.33	62.80	5.87	Peak	186	356
3	5350.00	47.21	54.00	-6.79	41.00	6.21	Average	188	359
4	5350.00	59.43	74.00	-14.57	53.22	6.21	Peak	188	359
5	10420.00	57.02	68.20	-11.18	41.72	15.30	Peak	158	206

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

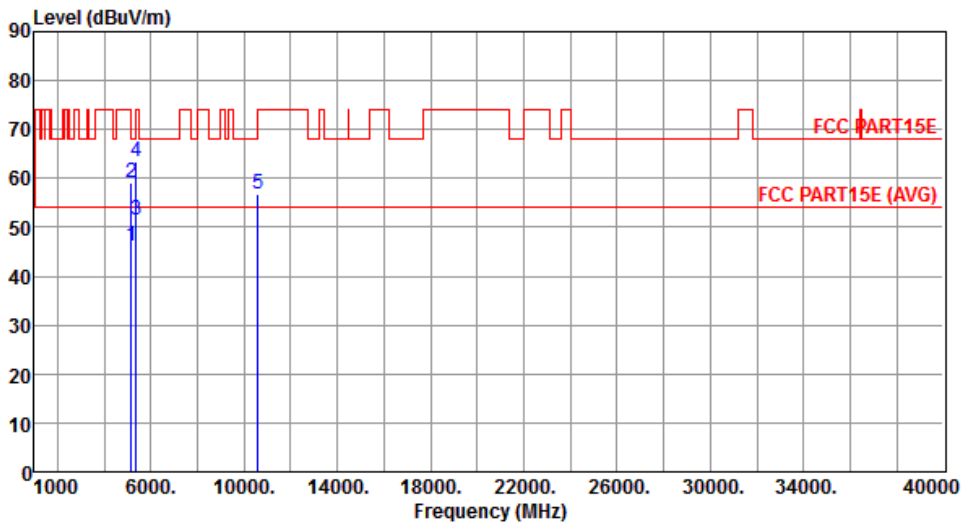
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.21	54.00	-5.79	42.34	5.87	Average	204	261
2	5150.00	65.04	74.00	-8.96	59.17	5.87	Peak	204	261
3	5350.00	46.81	54.00	-7.19	40.60	6.21	Average	204	261
4	5350.00	58.04	74.00	-15.96	51.83	6.21	Peak	204	261
5	10420.00	57.44	68.20	-10.76	42.14	15.30	Peak	181	179

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

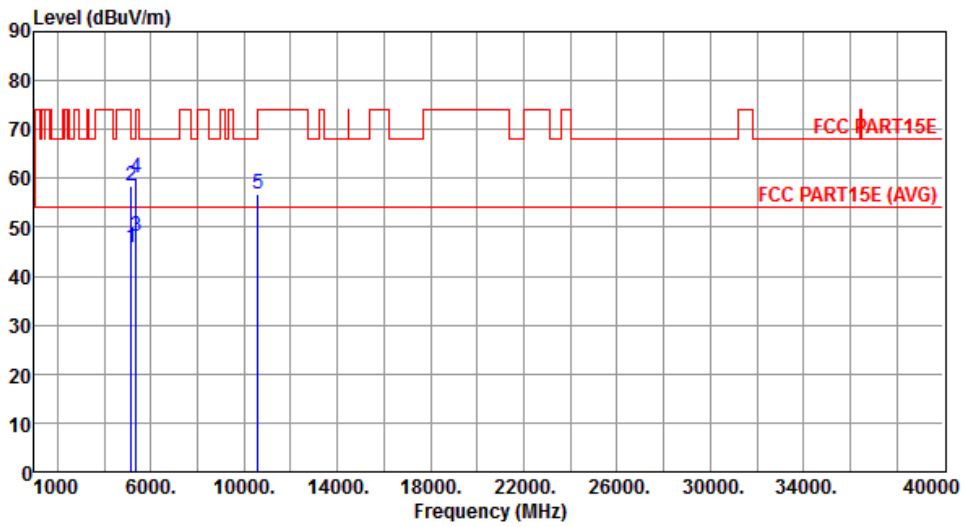
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		



	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	46.08	54.00	-7.92	40.21	5.87	Average	189	359
2	5150.00	58.96	74.00	-15.04	53.09	5.87	Peak	189	359
3	5350.00	51.51	54.00	-2.49	45.30	6.21	Average	189	359
4	5350.00	63.36	74.00	-10.64	57.15	6.21	Peak	189	359
5	10580.00	56.92	68.20	-11.28	41.48	15.44	Peak	159	208

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

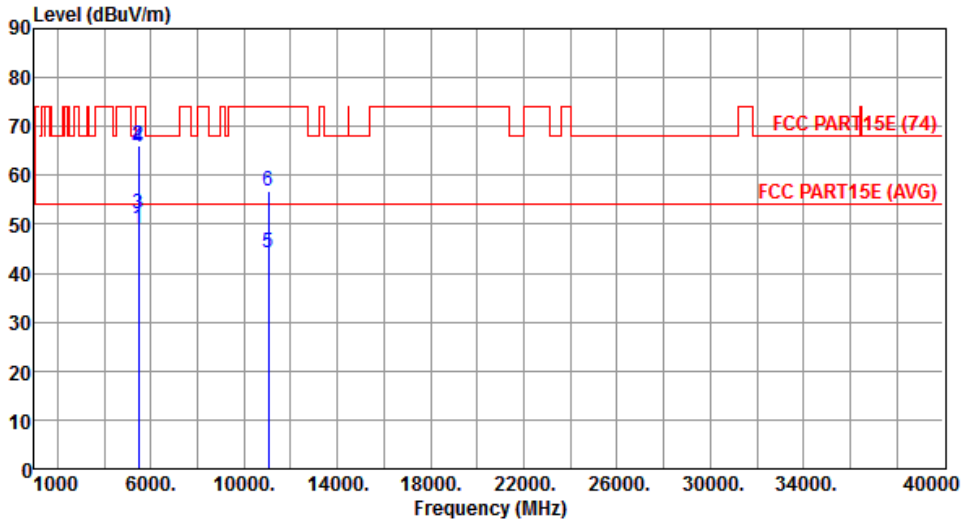
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	45.86	54.00	-8.14	39.99	5.87	Average	205	265
2	5150.00	58.41	74.00	-15.59	52.54	5.87	Peak	205	265
3	5350.00	48.12	54.00	-5.88	41.91	6.21	Average	205	265
4	5350.00	60.15	74.00	-13.85	53.94	6.21	Peak	205	265
5	10580.00	56.69	68.20	-11.51	41.25	15.44	Peak	176	181

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

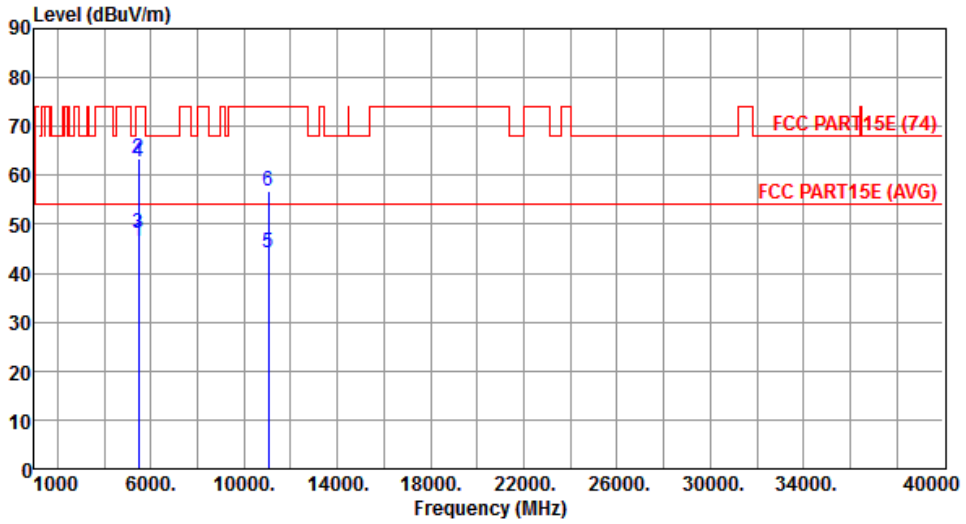
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.12	54.00	-4.88	42.76	6.36	Average	188	359
2	5460.00	66.13	74.00	-7.87	59.77	6.36	Peak	188	359
3	5470.00	51.98	54.00	-2.02	45.61	6.37	Average	188	359
4	5470.00	65.73	74.00	-8.27	59.36	6.37	Peak	188	359
5	11060.00	44.21	54.00	-9.79	28.44	15.77	Average	161	208
6	11060.00	56.85	74.00	-17.15	41.08	15.77	Peak	161	208

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

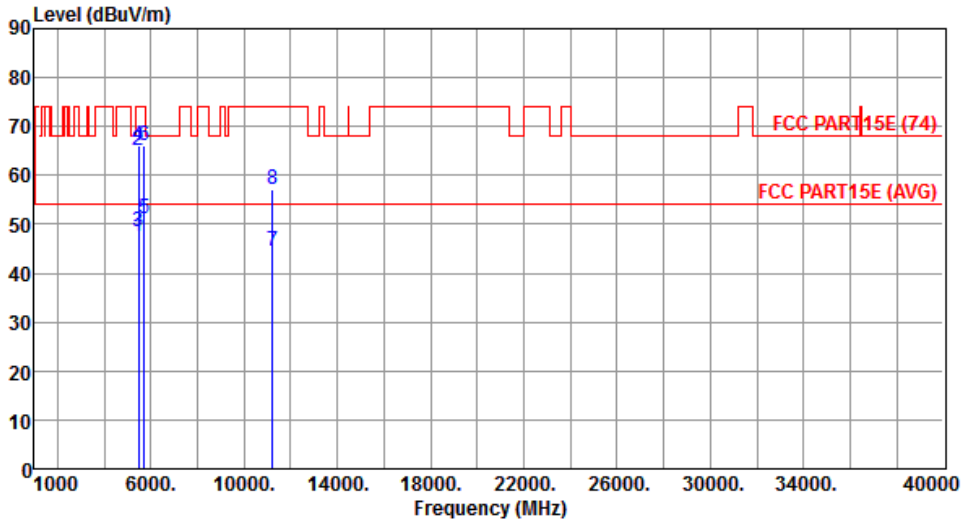
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.52	54.00	-7.48	40.16	6.36	Average	206	261
2	5460.00	63.33	74.00	-10.67	56.97	6.36	Peak	206	261
3	5470.00	48.25	54.00	-5.75	41.88	6.37	Average	206	261
4	5470.00	62.88	74.00	-11.12	56.51	6.37	Peak	206	261
5	11060.00	44.15	54.00	-9.85	28.38	15.77	Average	175	183
6	11060.00	56.81	74.00	-17.19	41.04	15.77	Peak	175	183

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

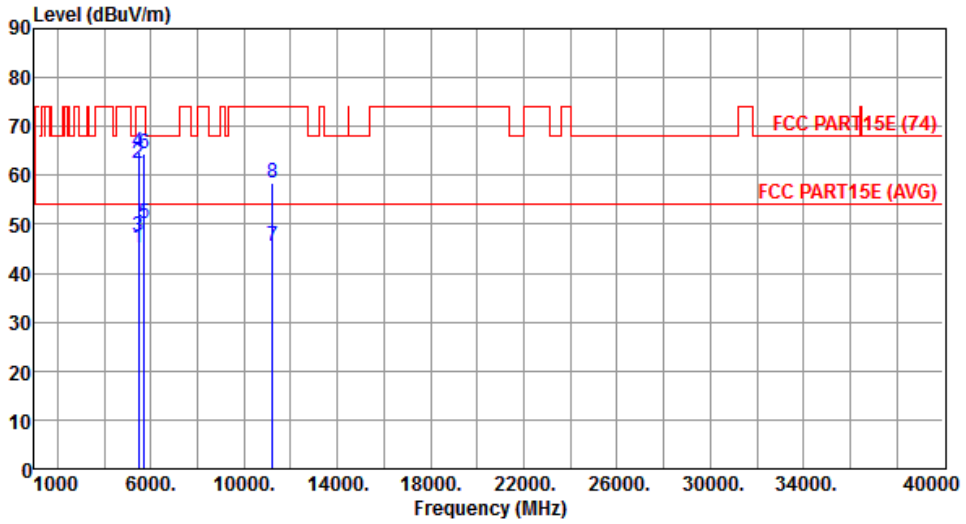
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.57	54.00	-6.43	41.21	6.36	Average	188	359
2	5460.00	65.18	74.00	-8.82	58.82	6.36	Peak	188	359
3	5470.00	48.62	54.00	-5.38	42.25	6.37	Average	188	359
4	5470.00	65.94	74.00	-8.06	59.57	6.37	Peak	188	359
5	5725.00	51.22	54.00	-2.78	44.39	6.83	Average	188	359
6	5725.00	66.01	74.00	-7.99	59.18	6.83	Peak	188	359
7	11220.00	44.65	54.00	-9.35	28.79	15.86	Average	169	213
8	11220.00	57.24	74.00	-16.76	41.38	15.86	Peak	169	213

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

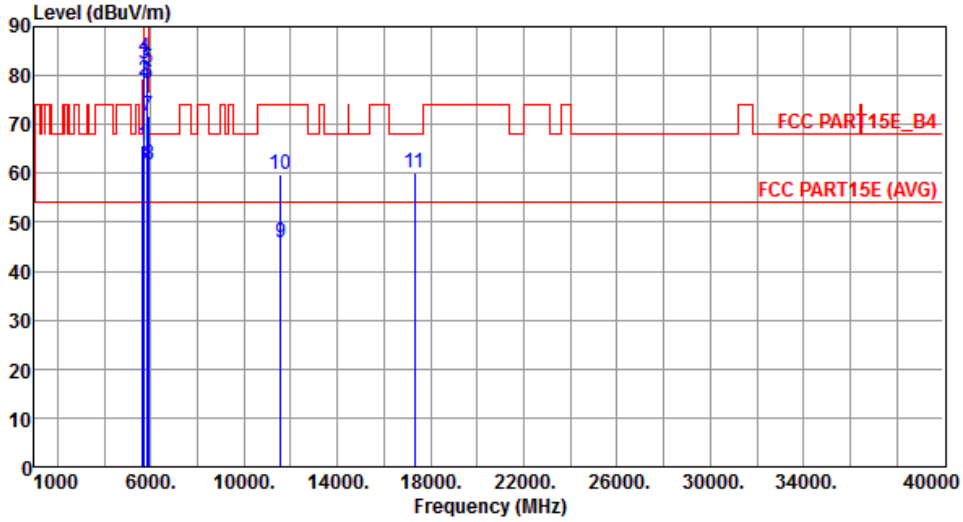
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	45.15	54.00	-8.85	38.79	6.36	Average	208	263
2	5460.00	62.38	74.00	-11.62	56.02	6.36	Peak	208	263
3	5470.00	47.44	54.00	-6.56	41.07	6.37	Average	208	263
4	5470.00	64.91	74.00	-9.09	58.54	6.37	Peak	208	263
5	5725.00	50.24	54.00	-3.76	43.41	6.83	Average	208	263
6	5725.00	64.58	74.00	-9.42	57.75	6.83	Peak	208	263
7	11220.00	45.61	54.00	-8.39	29.75	15.86	Average	179	186
8	11220.00	58.49	74.00	-15.51	42.63	15.86	Peak	179	186

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

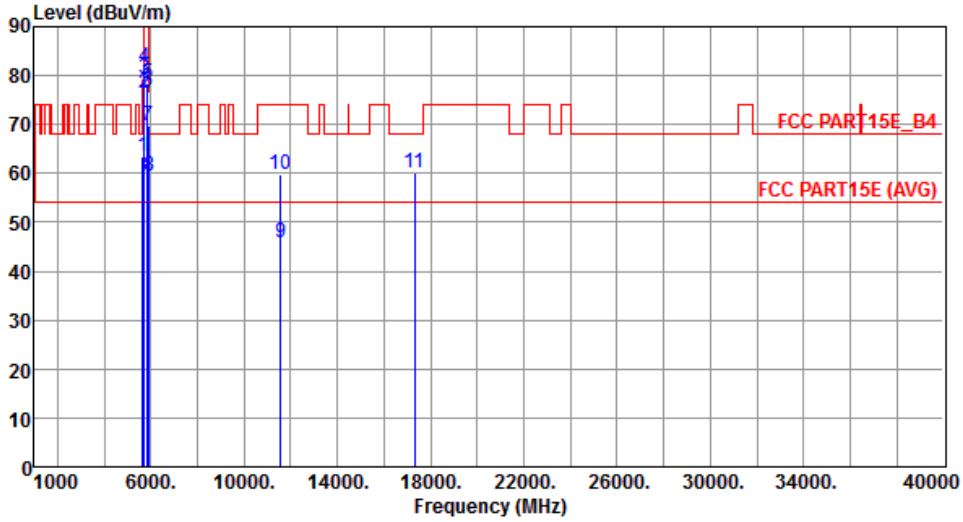
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	65.72	68.20	-2.48	59.09	6.63	Peak	189	349
2	5700.00	79.02	105.20	-26.18	72.25	6.77	Peak	189	349
3	5720.00	82.43	110.80	-28.37	75.61	6.82	Peak	189	349
4	5725.00	83.80	122.20	-38.40	76.97	6.83	Peak	189	349
5	5850.00	81.32	122.20	-40.88	74.16	7.16	Peak	189	349
6	5855.00	78.42	110.80	-32.38	71.24	7.18	Peak	189	349
7	5875.00	71.90	105.20	-33.30	64.67	7.23	Peak	189	349
8	5925.00	61.88	68.20	-6.32	54.54	7.34	Peak	189	349
9	11550.00	45.86	54.00	-8.14	29.93	15.93	Average	172	215
10	11550.00	59.69	74.00	-14.31	43.76	15.93	Peak	172	215
11	17325.00	60.21	68.20	-7.99	41.49	18.72	Peak	175	216

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

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.45	68.20	-4.75	56.82	6.63	Peak	206	261
2	5700.00	76.52	105.20	-28.68	69.75	6.77	Peak	206	261
3	5720.00	79.28	110.80	-31.52	72.46	6.82	Peak	206	261
4	5725.00	81.77	122.20	-40.43	74.94	6.83	Peak	206	261
5	5850.00	78.44	122.20	-43.76	71.28	7.16	Peak	206	261
6	5855.00	76.79	110.80	-34.01	69.61	7.18	Peak	206	261
7	5875.00	69.68	105.20	-35.52	62.45	7.23	Peak	206	261
8	5925.00	59.41	68.20	-8.79	52.07	7.34	Peak	206	261
9	11550.00	45.89	54.00	-8.11	29.96	15.93	Average	181	192
10	11550.00	59.71	74.00	-14.29	43.78	15.93	Peak	181	192
11	17325.00	60.16	68.20	-8.04	41.44	18.72	Peak	181	188

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

3.6 Frequency Stability

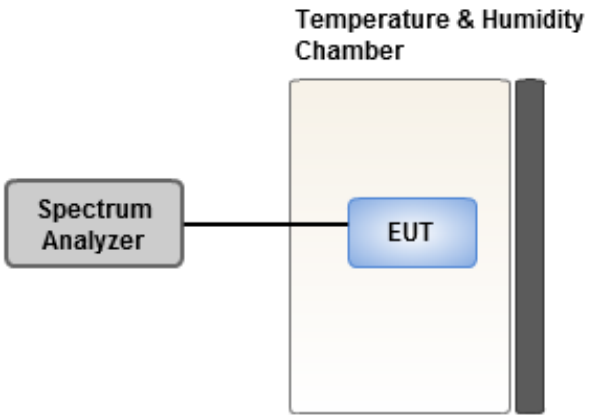
3.6.1 Limit of Frequency Stability

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 60 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	0.44	1.13	0.33	0.68
T20°CVmin	0.37	0.36	0.18	0.20
T60°CVnom	0.80	0.54	0.64	1.35
T50°CVnom	0.20	0.73	0.81	0.94
T40°CVnom	0.41	0.56	0.39	0.83
T30°CVnom	0.31	0.45	0.37	0.39
T20°CVnom	0.06	0.31	0.55	0.41
T10°CVnom	0.48	0.77	0.68	0.73
T0°CVnom	0.32	0.67	0.31	-0.11
T-10°CVnom	0.54	0.39	0.67	0.81
T-20°CVnom	0.35	0.40	0.39	0.75
T-30°CVnom	0.08	0.15	0.09	0.10
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	0.03	0.39	0.04	0.06
T20°CVmin	0.62	0.79	0.61	1.21
T60°CVnom	0.43	0.52	0.67	1.25
T50°CVnom	0.06	0.39	0.22	0.39
T40°CVnom	0.44	0.76	0.70	1.01
T30°CVnom	0.30	0.49	0.32	0.34
T20°CVnom	0.33	1.13	-0.08	0.93
T10°CVnom	0.42	0.57	0.55	0.90
T0°CVnom	-0.19	0.26	-0.49	0.22
T-10°CVnom	0.32	1.02	0.26	0.32
T-20°CVnom	-0.10	-0.20	0.39	0.56
T-30°CVnom	-0.03	-0.08	0.24	0.26
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

4 Test laboratory information

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

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

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

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

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

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

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