FCC C2PC Test Report

FCC ID	:	**SQG-SSD45N**
Equipment	:	**Radio Module**
Model No.	:	**SSD45N**
Brand Name	:	**Laird**
Applicant	:	**Laird Connectivity**
Address	:	**W66N220 Commerce Court, Cedarburg, Wisconsin 53012, USA**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Oct. 04, 2019**
Tested Date	:	**May 03 ~ May 07, 2019** **Nov. 04 ~ Nov. 13, 2019**

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
FR442904-07AN	Rev. 01	Initial issue	Feb. 12, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 19.326MHz 43.43 (Margin -6.66dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5725.00MHz 67.94 (Margin -0.26dB) - PK	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 16.47 5250~5350MHz: 16.73 5470~5725MHz: 17.76 5725~5850MHz: 18.43	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

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

This report is prepared for FCC class II permissive change.

This report is issued as a supplementary report to original ICC report no. FR442904-01AN. The modification is concerned with following:

- ✧ PCB materials and Balun change.
- ✧ Adding 2nd source of Diplexer
- ✧ Applicant and brand name are changed.
- ✧ Adding channel 120, 124 and 128 by software setting.
- ✧ Adding one antenna

In this report, all tests had been re-tested and presented in the following sections.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5150-5250 5250-5350 5470-5725 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]	1	MCS 0-7
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation. Note 3: 802.11n supports HT20 only.					

1.1.2 Antenna Details (New set of antenna was marked in boldface.)

Ant. No.	Brand / Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	MAG.LAYERS EDA-1513-25GR 2-B2-CY	Dipole	SMA Jack Reverse	2	2	2	2	2
2	MAG.LAYERS PCA-4606-2G4C 1-A13-CY	PCB Dipole	UFL	2.21	---	---	---	---
3	Larid NanoBlade-IP04	PCB Dipole	UFL	2	3.9	3.9	4	4
4	Larid MAF95310 Mini NanoBlade Flex	PCB Dipole	UFL	2.79	3.38	3.38	3.38	3.38
5	Laird NanoBlue-IP04	PCB Dipole	UFL	2	---	---	---	---
6	Ethertronics WLAN_1000146	PIFA	UFL	2.5	3.5	3.5	3.5	3.5
7	SAA / MG7018-41-000-R	Dipole	UFL	1.87	0.85	0.6	0.94	0.92
8	SAA / MG7324-41-000-R	Dipole	UFL	1.32	1.04	1.6	2.75	2.24
9	**EMF2449A1-33 UFL**	**PCB Dipole**	**UFL**	**0.8**	**3.3**	**3.3**	**3.3**	**3.3**

Note: The antennas with highest gain of each type were selected for final testing in this test report

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from power supply

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20	
Channel	**Frequency(MHz)**
36	5180
40	5200
44	5220
48	5240
52	5260
56	5280
60	5300
64	5320
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
149	5745
153	5765
157	5785
161	5805
165	5825

1.1.6 Test Tool and Duty Cycle

Test Tool	Terminal, Version: 2.32.1		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	99.26	0.03
	HT20	99.62	0.02

1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	14.5
11a	5200	14
11a	5240	15
11a	5260	15.5
11a	5300	15.5
11a	5320	14.5
11a	5500	14.5
11a	5580	16.5
11a	5700	14.5
11a	5745	15
11a	5785	18
11a	5825	18

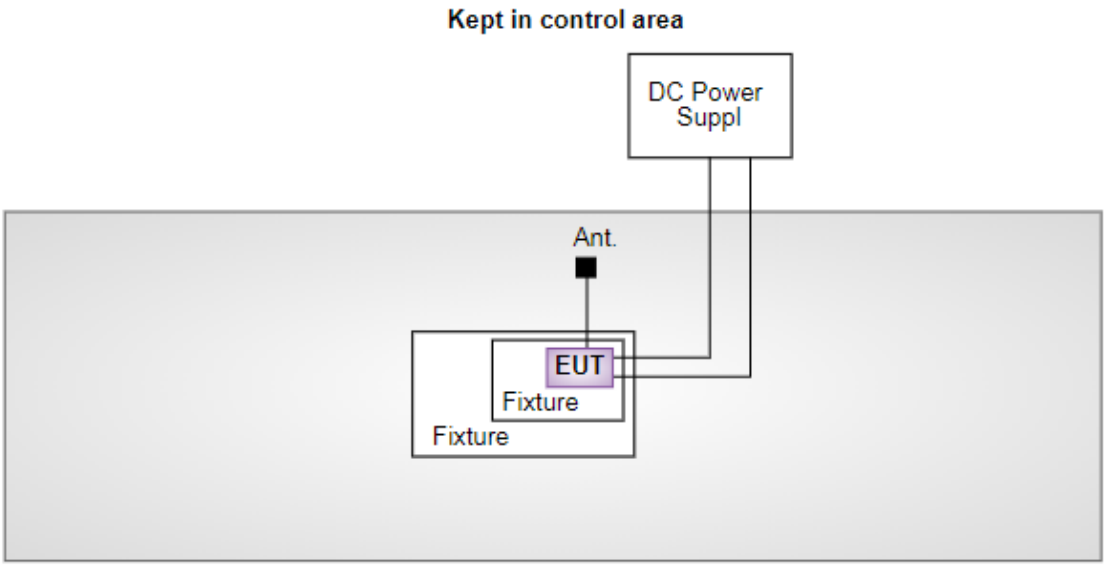
Modulation Mode	Test Frequency (MHz)	Power Index
HT20	5180	14.5
HT20	5200	14
HT20	5240	15.5
HT20	5260	15.5
HT20	5300	15.5
HT20	5320	14.5
HT20	5500	14.5
HT20	5580	16.5
HT20	5700	14.5
HT20	5745	15
HT20	5785	18
HT20	5825	17

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	DC Power Supply	GWINSTEK	GPC-3060D	---	---
2	Notebook	Lenovo	X61	---	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram



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

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Nov. 13, 2019				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Jan. 08, 2019	Jan. 07, 2020
LISN	R&S	ENV216	101579	Mar. 08, 2019	Mar. 07, 2020
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
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)				
Test Date	May 03 ~ May 06, 2019				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101499	Jan. 07, 2019	Jan. 06, 2020
Receiver	R&S	ESR3	101658	Dec. 11, 2018	Dec. 10, 2019
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 17, 2019	Apr. 16, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Jan. 07, 2019	Jan. 06, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2018	Nov. 14, 2019
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 09, 2018	Nov. 08, 2019
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 08, 2018	Oct. 07, 2019
Preamplifier	EMC	EMC02325	980187	Aug. 24, 2018	Aug. 23, 2019
Preamplifier	Agilent	83017A	MY53270014	Aug. 09, 2018	Aug. 08, 2019
Preamplifier	EMC	EMC184045B	980192	Aug. 09, 2018	Aug. 08, 2019
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/**4**	Oct. 01, 2018	Sep. 30, 2019
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Oct. 01, 2018	Sep. 30, 2019
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Oct. 01, 2018	Sep. 30, 2019
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Oct. 01, 2018	Sep. 30, 2019
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Oct. 01, 2018	Sep. 30, 2019
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Oct. 01, 2018	Sep. 30, 2019
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)				
Test Date	Nov. 04, 2019				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Apr. 17, 2019	Apr. 16, 2020
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Nov. 29, 2018	Nov. 28, 2019
Measurement Software	Sporton	SENSE-15407_NII	V5.10	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 v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 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	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.96 dB
Radiated emission > 1GHz	±4.51 dB
Time	±0.1%
Temperature	±0.4 ^{o}C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 67%	Akun Chung
Radiated Emissions	03CH03-WS	23-24°C / 62-67%	Roger Lu Akun Chung
RF Conducted	TH01-WS	22°C / 64%	Brad Wu

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

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	11a	5580	6 Mbps	1
Radiated Emissions ≤1GHz	11a	5580	6 Mbps	1, 2, 3
Radiated Emissions ≤1GHz	11a	5240	6 Mbps	4
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
Radiated Emissions >1GHz	11a	5180 / 5200 / 5240 / 5260 / 5300 5320	6 Mbps	1. 2, 4
		5500 / 5580 / 5700		1. 2, 3
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320	MCS 0	1. 2, 4
		5500 / 5580 / 5700		1. 2, 3
Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	6 Mbps	1
	HT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700	MCS 0	
Frequency Stability	Un-modulation	5320	---	1

NOTE:

1. Test configurations are listed as below:
   1) Configuration 1 : PCB Dipole antenna (Antenna No.3) , Y-plane
   2) Configuration 2 : PIFA antenna (Antenna No.6) , Y-plane
   3) Configuration 3 : Dipole antenna (Antenna No.8) , Y-plane / 5.47 ~ 5.725 GHz
   4) Configuration 4: Dipole antenna (Antenna No.1), Y-plane. / 5.15 ~ 5.35 GHz

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

NOTE:

1. 3 types antenna are used for this device, highest gain antenna of each type is selected to perform radiated emission test as below test configuration
   1) Configuration 1 : PCB Dipole antenna (Antenna No.3) , Y-plane
   2) Configuration 2 : PIFA antenna (Antenna No.6), Y-plane
   3) Configuration 3 : Dipole antenna (Antenna No.8), Y-plane

3 Transmitter Test Results

3.1 Conducted Emissions

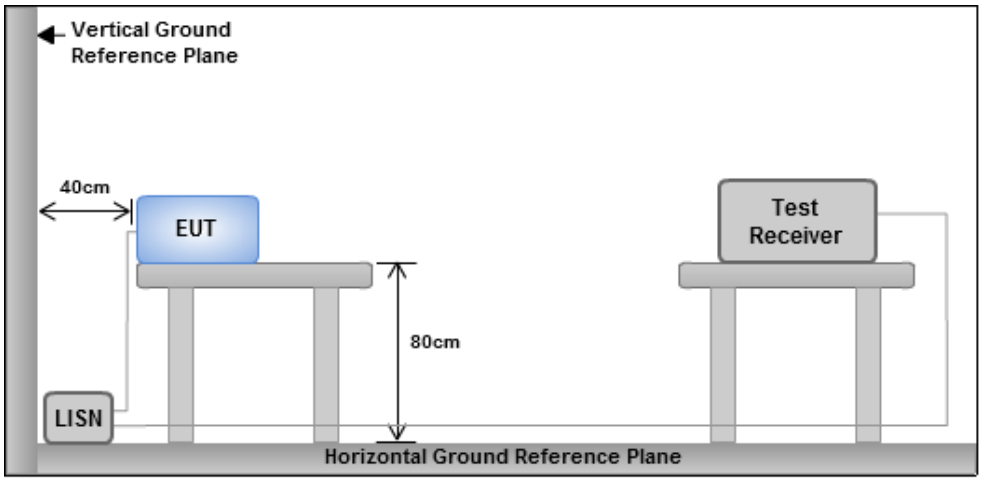
3.1.1 Limit of Conducted Emissions

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

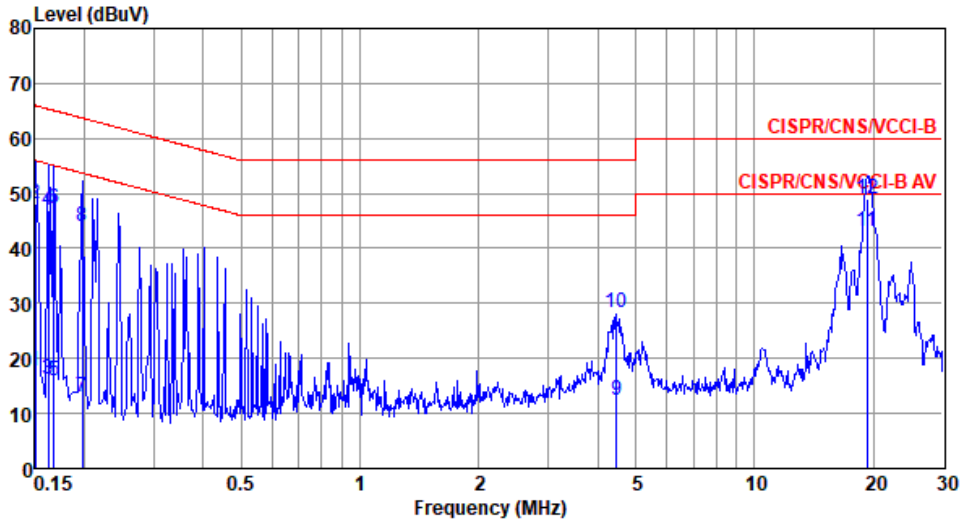
3.1.3 Test Setup



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

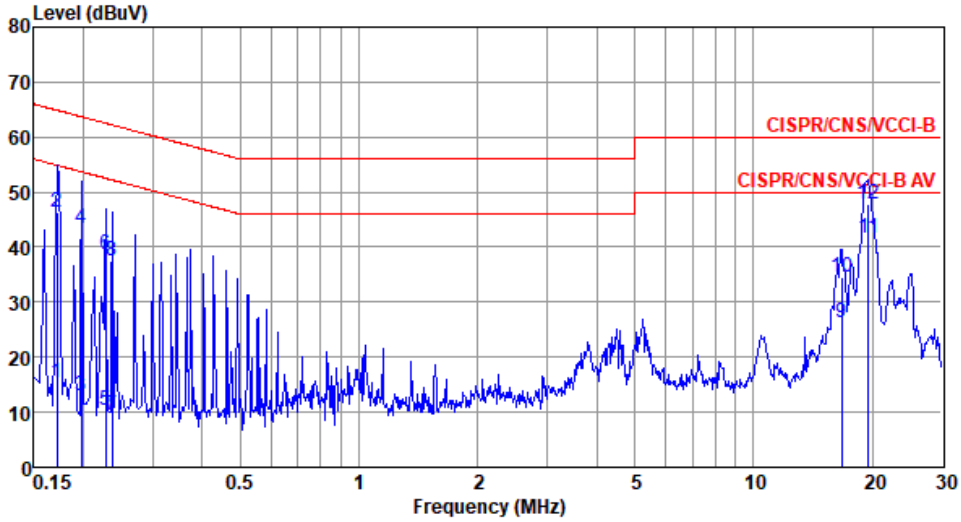
Modulation	11a	Test Freq. (MHz)	5580
Power Phase	Line		



	Freq MHz	Level dBuA	Limit Line dBuA	Over Limit dB	Read Level dBuA	LISN factor dB	cable loss dB	Remark
1	0.150	17.83	56.00	-38.17	8.25	9.53	0.05	Average
2	0.150	48.10	66.00	-17.90	38.52	9.53	0.05	QP
3	0.162	16.26	55.34	-39.08	6.68	9.53	0.05	Average
4	0.162	46.88	65.34	-18.46	37.30	9.53	0.05	QP
5	0.168	16.03	55.08	-39.05	6.45	9.53	0.05	Average
6	0.168	47.13	65.08	-17.95	37.55	9.53	0.05	QP
7	0.198	13.09	53.71	-40.62	3.49	9.54	0.06	Average
8	0.198	44.01	63.71	-19.70	34.41	9.54	0.06	QP
9	4.478	12.41	46.00	-33.59	2.50	9.61	0.30	Average
10	4.478	28.38	56.00	-27.62	18.47	9.61	0.30	QP
11*	19.326	43.11	50.00	-6.89	32.80	9.66	0.65	Average
12	19.326	49.05	60.00	-10.95	38.74	9.66	0.65	QP

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

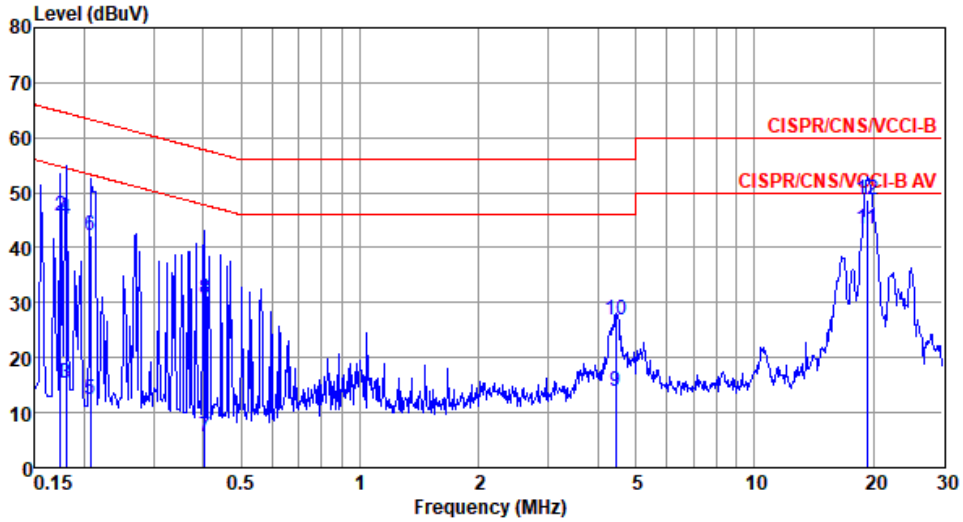
Modulation	11a	Test Freq. (MHz)	5580
Power Phase	Neutral		



	Freq MHz	Level dBuA	Limit Line dBuA	Over Limit dB	Read Level dBuA	LISN factor dB	cable loss dB	Remark
1	0.171	15.31	54.90	-39.59	5.69	9.57	0.05	Average
2	0.171	46.20	64.90	-18.70	36.58	9.57	0.05	QP
3	0.198	13.08	53.71	-40.63	3.44	9.58	0.06	Average
4	0.198	43.33	63.71	-20.38	33.69	9.58	0.06	QP
5	0.228	10.34	52.52	-42.18	0.69	9.59	0.06	Average
6	0.228	38.52	62.52	-24.00	28.87	9.59	0.06	QP
7	0.237	9.49	52.22	-42.73	-0.16	9.59	0.06	Average
8	0.237	37.48	62.22	-24.74	27.83	9.59	0.06	QP
9	16.750	26.39	50.00	-23.61	15.99	9.78	0.62	Average
10	16.750	34.51	60.00	-25.49	24.11	9.78	0.62	QP
11*	19.532	41.61	50.00	-8.39	31.15	9.81	0.65	Average
12	19.532	47.71	60.00	-12.29	37.25	9.81	0.65	QP

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

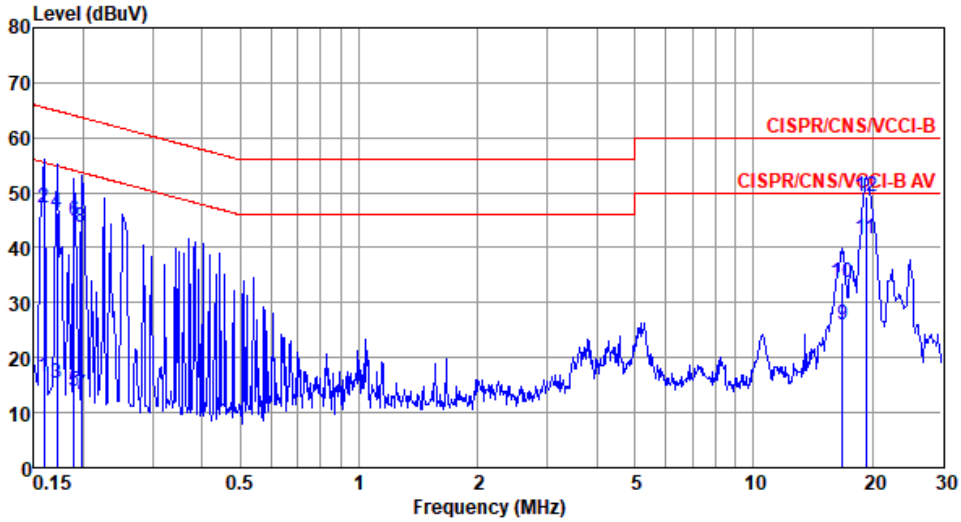
Modulation	11a	Test Freq. (MHz)	5825
Power Phase	Line		



	Freq MHz	Level dBuA	Limit Line dBuA	Over Limit dB	Read Level dBuA	LISN factor dB	cable loss dB	Remark
1	0.174	15.22	54.77	-39.55	5.62	9.54	0.06	Average
2	0.174	45.81	64.77	-18.96	36.21	9.54	0.06	QP
3	0.180	15.36	54.50	-39.14	5.76	9.54	0.06	Average
4	0.180	45.26	64.50	-19.24	35.66	9.54	0.06	QP
5	0.207	12.25	53.32	-41.07	2.65	9.54	0.06	Average
6	0.207	42.32	63.32	-21.00	32.72	9.54	0.06	QP
7	0.404	5.68	47.77	-42.09	-3.97	9.57	0.08	Average
8	0.404	30.65	57.77	-27.12	21.00	9.57	0.08	QP
9	4.454	13.82	46.00	-32.18	3.91	9.61	0.30	Average
10	4.454	26.76	56.00	-29.24	16.85	9.61	0.30	QP
11*	19.326	43.34	50.00	-6.66	33.03	9.66	0.65	Average
12	19.326	48.63	60.00	-11.37	38.32	9.66	0.65	QP

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

Modulation	11a	Test Freq. (MHz)	5825
Power Phase	Neutral		



	Freq MHz	Level dBuA	Limit Line dBuA	Over Limit dB	Read Level dBuA	LISN factor dB	cable loss dB	Remark
1	0.159	16.52	55.52	-39.00	6.90	9.57	0.05	Average
2	0.159	47.14	65.52	-18.38	37.52	9.57	0.05	QP
3	0.171	15.30	54.90	-39.60	5.68	9.57	0.05	Average
4	0.171	46.23	64.90	-18.67	36.61	9.57	0.05	QP
5	0.189	13.94	54.06	-40.12	4.30	9.58	0.06	Average
6	0.189	44.87	64.06	-19.19	35.23	9.58	0.06	QP
7	0.198	13.15	53.71	-40.56	3.51	9.58	0.06	Average
8	0.198	43.68	63.71	-20.03	34.04	9.58	0.06	QP
9	16.839	26.08	50.00	-23.92	15.67	9.79	0.62	Average
10	16.839	33.62	60.00	-26.38	23.21	9.79	0.62	QP
11*	19.326	41.65	50.00	-8.35	31.19	9.81	0.65	Average
12	19.326	49.22	60.00	-10.78	38.76	9.81	0.65	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.

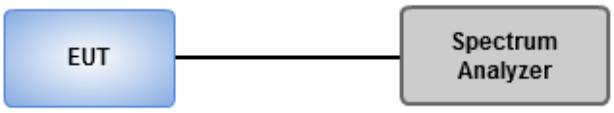
Occupied Bandwidth

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	24.855M	16.498M	16M5D1D	22.029M	16.425M
802.11n HT20_Nss1,(MCS0)_1TX	24.42M	17.728M	17M7D1D	22.536M	17.656M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	23.696M	16.498M	16M5D1D	21.667M	16.498M
802.11n HT20_Nss1,(MCS0)_1TX	24.928M	17.728M	17M7D1D	22.681M	17.656M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	25.145M	16.498M	16M5D1D	21.377M	16.498M
802.11n HT20_Nss1,(MCS0)_1TX	24.565M	17.656M	17M7D1D	22.754M	17.656M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	15.58M	16.643M	16M6D1D	15.072M	16.498M
802.11n HT20_Nss1,(MCS0)_1TX	17.174M	17.8M	17M8D1D	16.812M	17.583M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth;

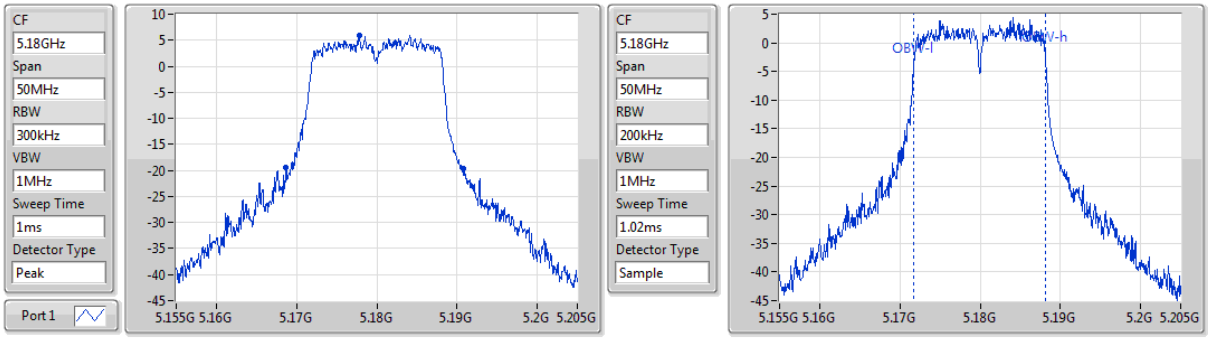
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	22.101M	16.498M
5200MHz	Pass	Inf	22.029M	16.425M
5240MHz	Pass	Inf	24.855M	16.498M
5260MHz	Pass	Inf	23.696M	16.498M
5300MHz	Pass	Inf	23.333M	16.498M
5320MHz	Pass	Inf	21.667M	16.498M
5500MHz	Pass	Inf	21.377M	16.498M
5580MHz	Pass	Inf	25.145M	16.498M
5700MHz	Pass	Inf	21.667M	16.498M
5745MHz	Pass	500k	15.58M	16.498M
5785MHz	Pass	500k	15.362M	16.57M
5825MHz	Pass	500k	15.072M	16.643M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	22.536M	17.656M
5200MHz	Pass	Inf	22.754M	17.656M
5240MHz	Pass	Inf	24.42M	17.728M
5260MHz	Pass	Inf	24.928M	17.728M
5300MHz	Pass	Inf	23.333M	17.728M
5320MHz	Pass	Inf	22.681M	17.656M
5500MHz	Pass	Inf	22.754M	17.656M
5580MHz	Pass	Inf	24.565M	17.656M
5700MHz	Pass	Inf	23.043M	17.656M
5745MHz	Pass	500k	17.174M	17.583M
5785MHz	Pass	500k	16.812M	17.8M
5825MHz	Pass	500k	16.957M	17.8M

Port X-N dB = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port **X** 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX EBW

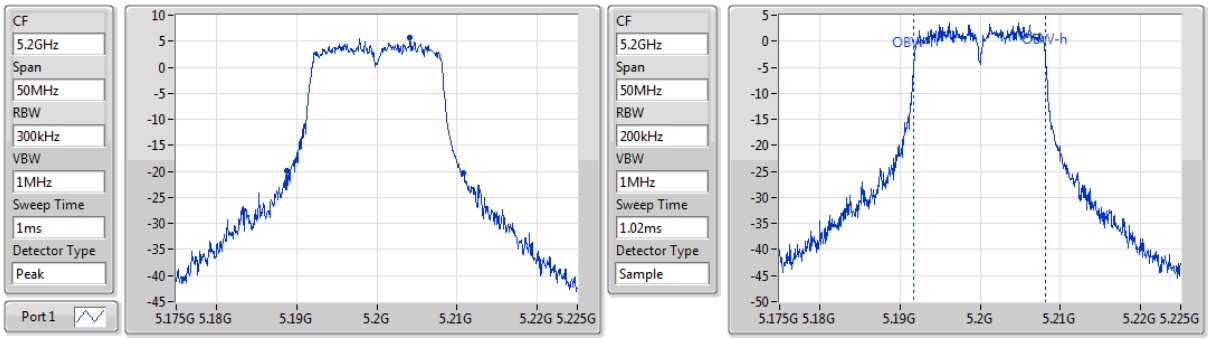
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.101M	5.168696G	5.190797G	16.498M	5.171679G	5.188177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

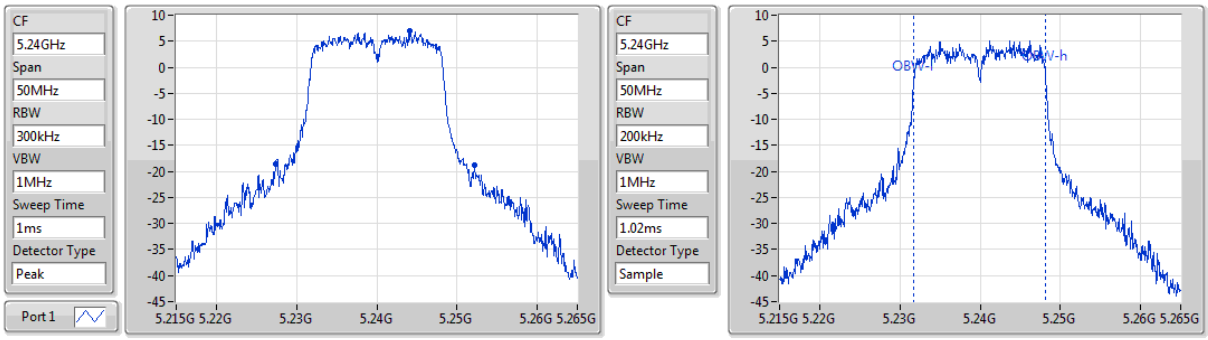
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.029M	5.188768G	5.210797G	16.425M	5.191751G	5.208177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

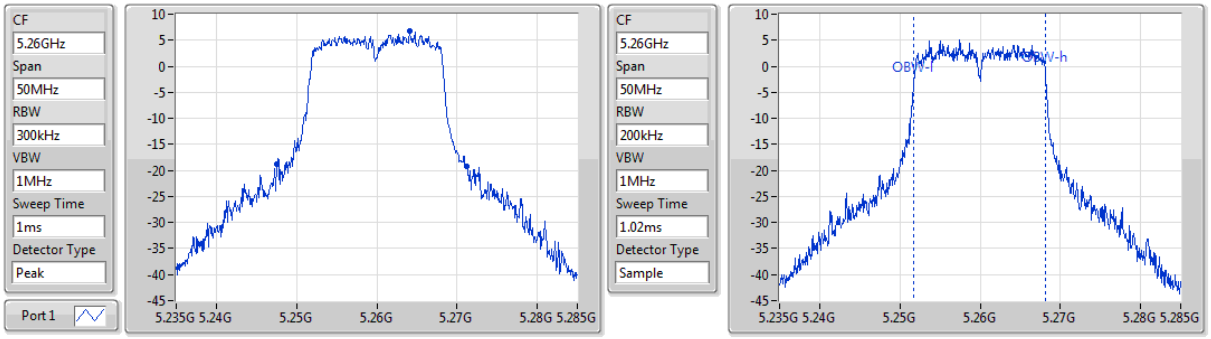
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.855M	5.227391G	5.252246G	16.498M	5.231679G	5.248177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

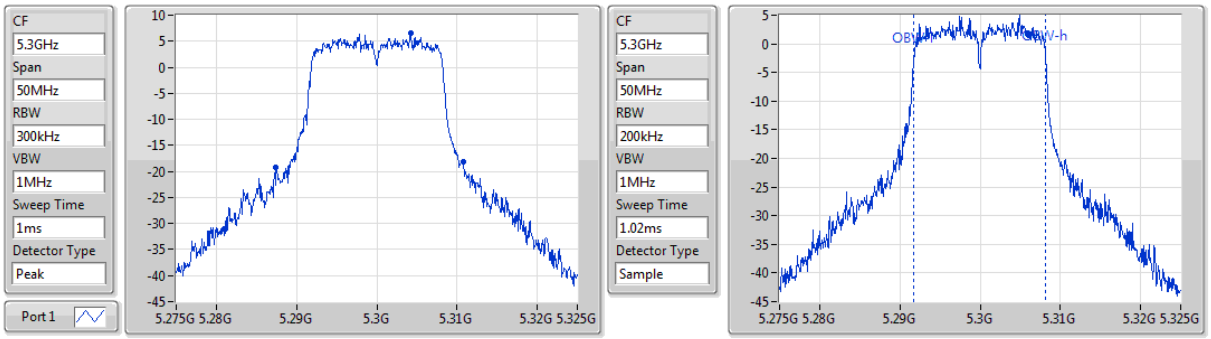
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.696M	5.247536G	5.271232G	16.498M	5.251679G	5.268177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

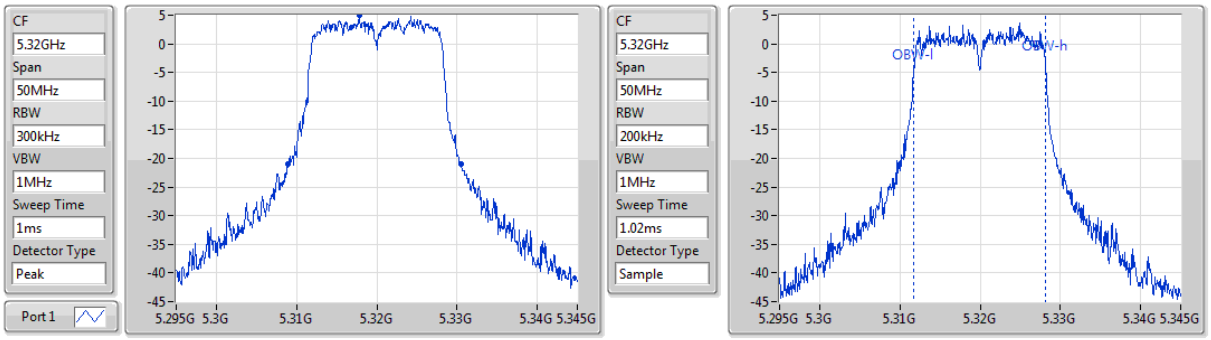
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.333M	5.287464G	5.310797G	16.498M	5.291679G	5.308177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

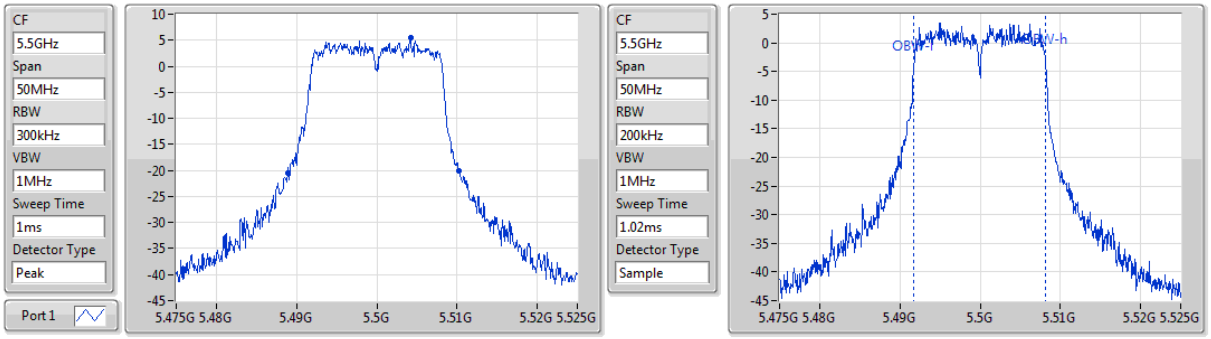
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.667M	5.308913G	5.33058G	16.498M	5.311679G	5.328177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

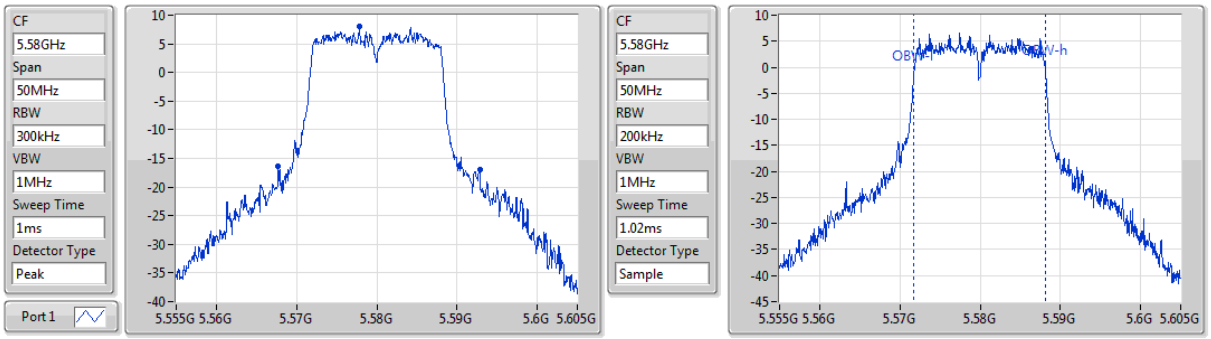
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.377M	5.488913G	5.51029G	16.498M	5.491679G	5.508177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

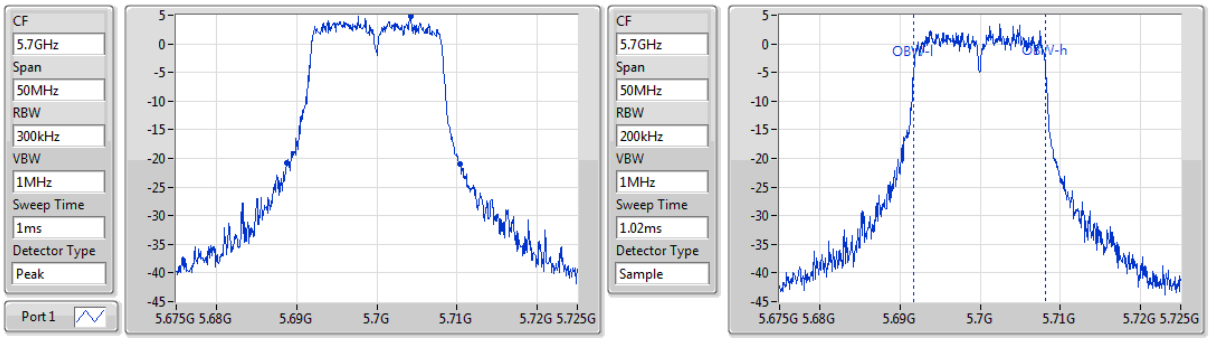
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
25.145M	5.567681G	5.592826G	16.498M	5.571679G	5.588177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

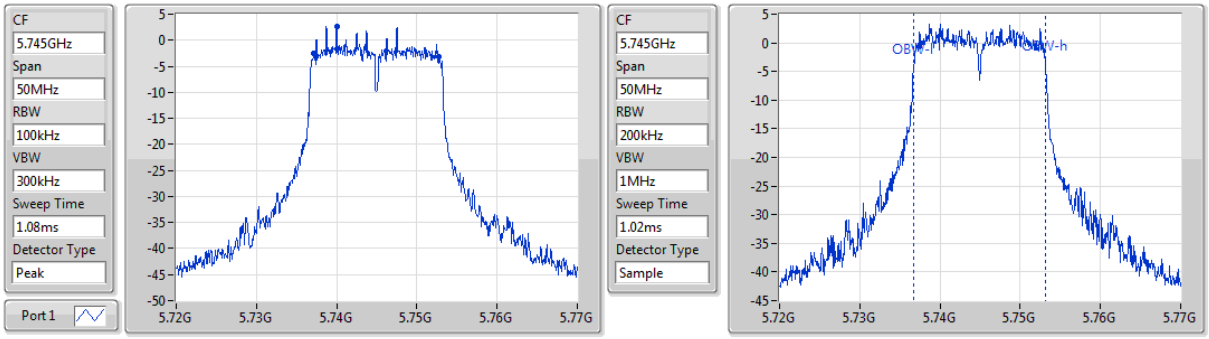
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.667M	5.688768G	5.710435G	16.498M	5.691679G	5.708177G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

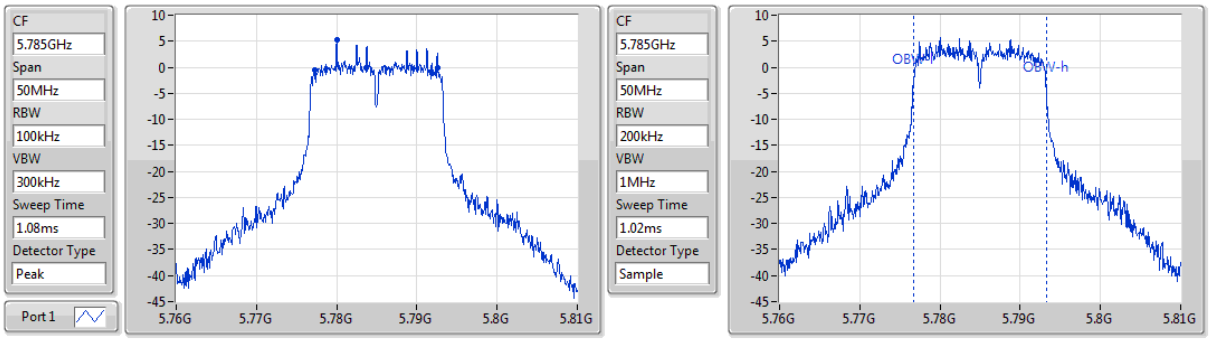
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.58M	5.737174G	5.752754G	16.498M	5.736679G	5.753177G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

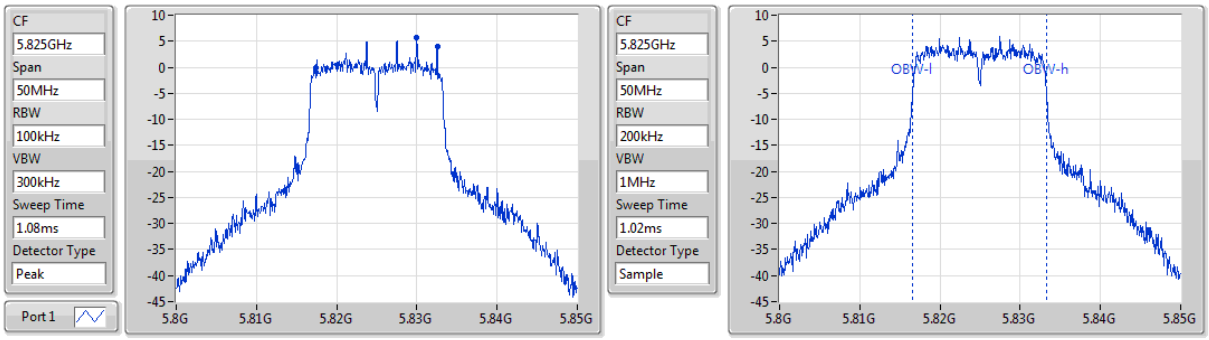
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.362M	5.777246G	5.792609G	16.57M	5.776679G	5.793249G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

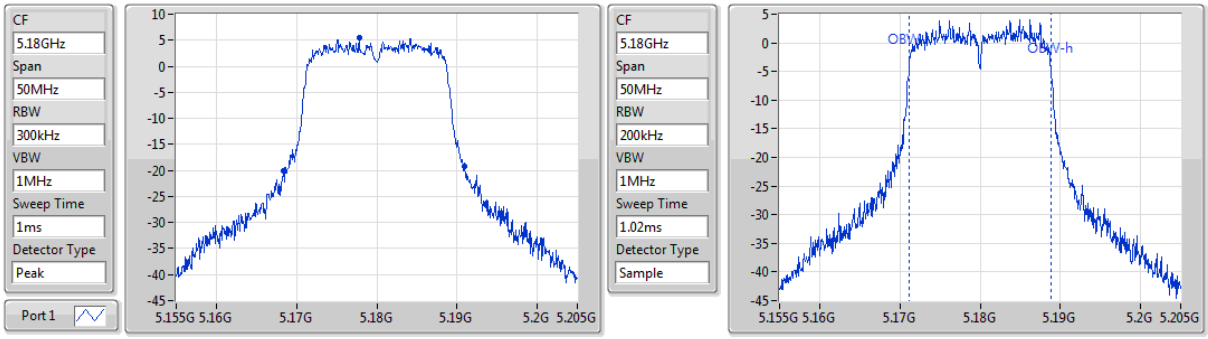
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.072M	5.817464G	5.832536G	16.643M	5.816606G	5.833249G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

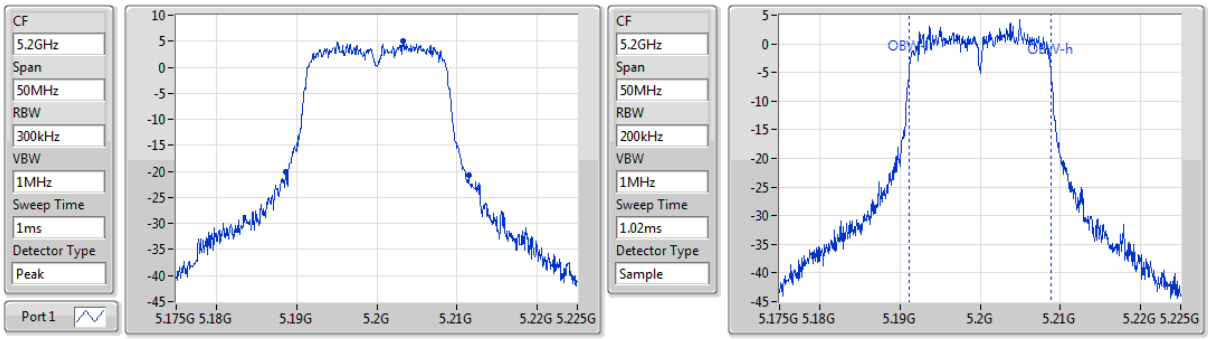
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.536M	5.168406G	5.190942G	17.656M	5.171172G	5.188828G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

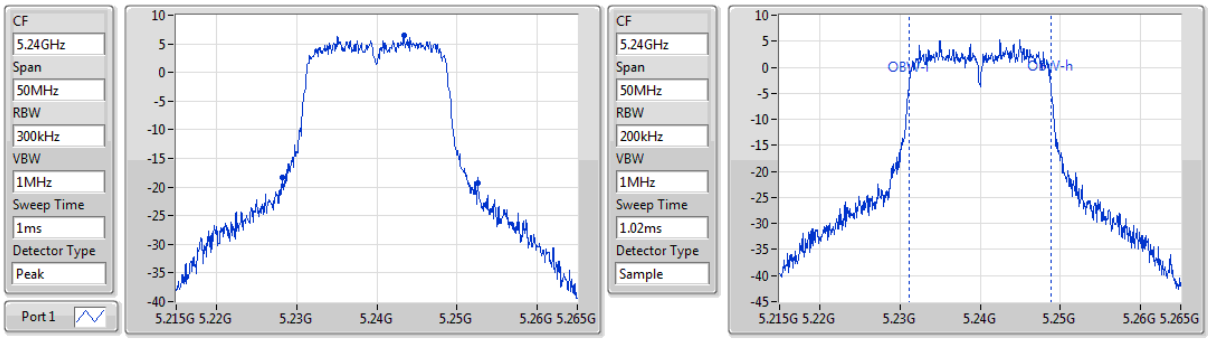
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.754M	5.188696G	5.211449G	17.656M	5.191172G	5.208828G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

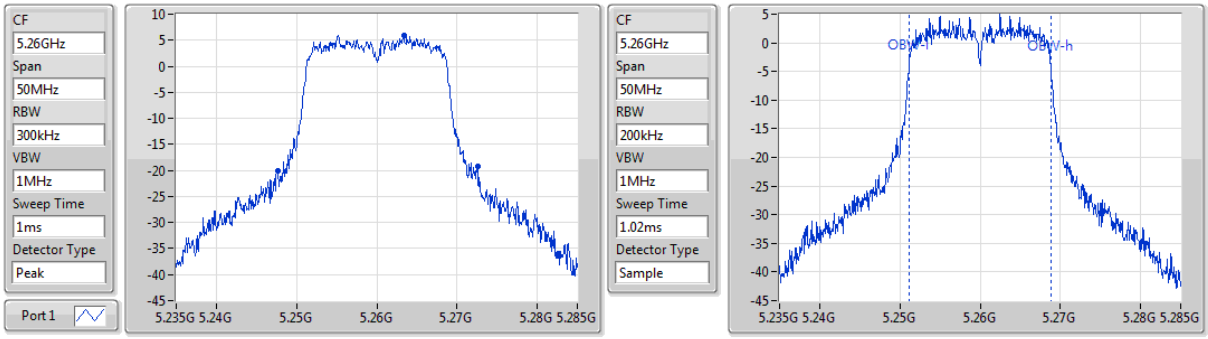
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.42M	5.228188G	5.252609G	17.728M	5.2311G	5.248828G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

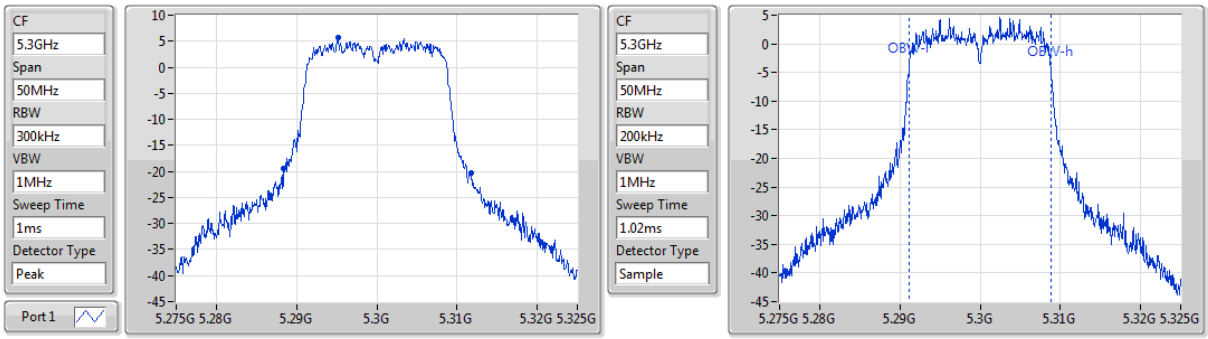
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.928M	5.247609G	5.272536G	17.728M	5.2511G	5.268828G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

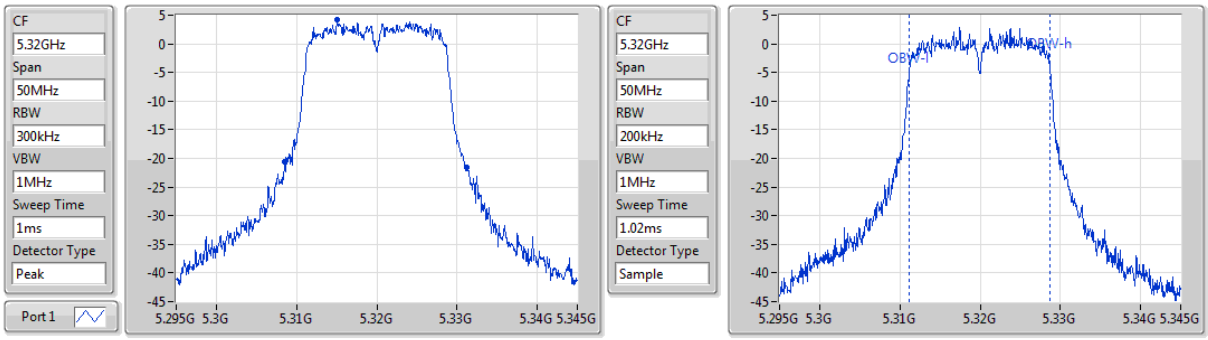
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.333M	5.288406G	5.311739G	17.728M	5.2911G	5.308828G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

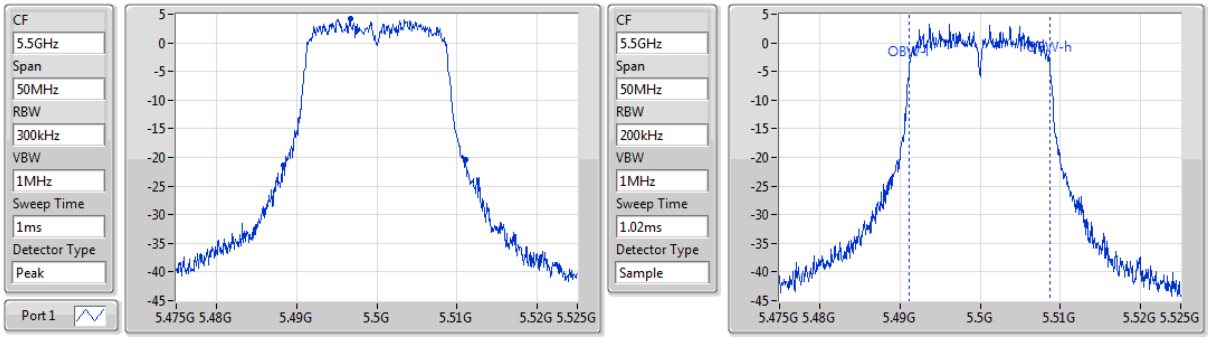
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.681M	5.308551G	5.331232G	17.656M	5.3111G	5.328755G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

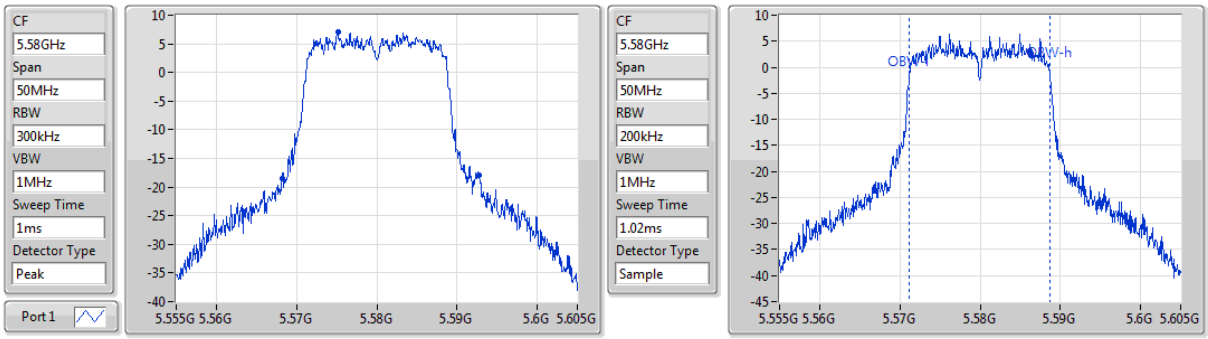
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.754M	5.488333G	5.511087G	17.656M	5.4911G	5.508755G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

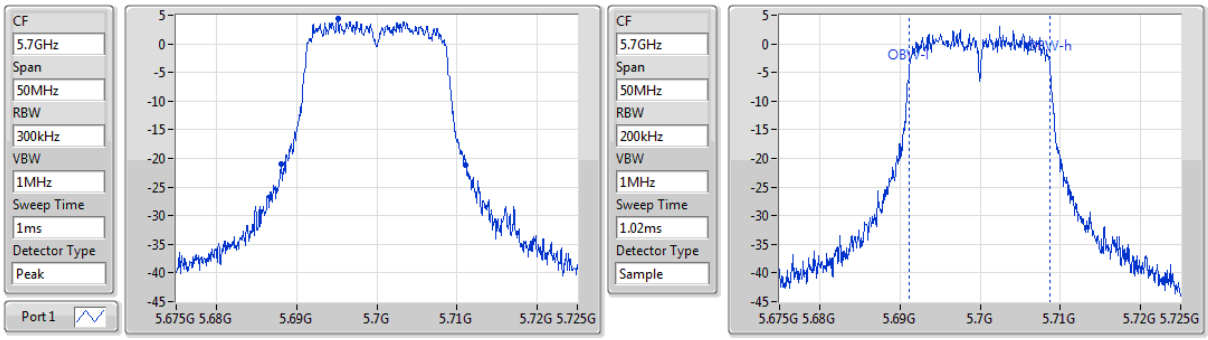
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
24.565M	5.568188G	5.592754G	17.656M	5.5711G	5.588755G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

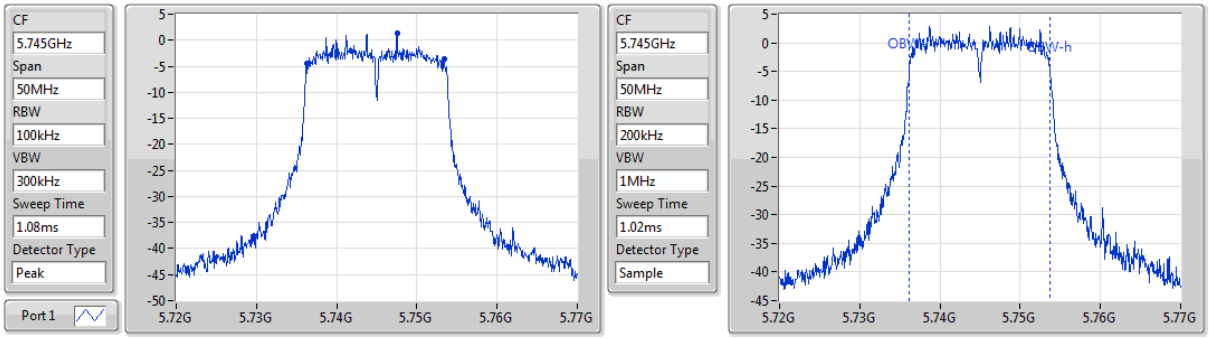
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
23.043M	5.688043G	5.711087G	17.656M	5.6911G	5.708755G	Inf	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

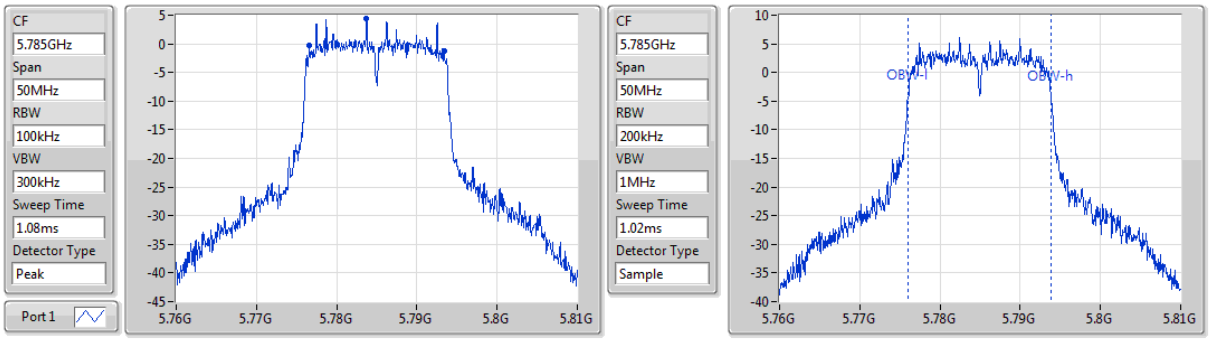
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.174M	5.736232G	5.753406G	17.583M	5.736172G	5.753755G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

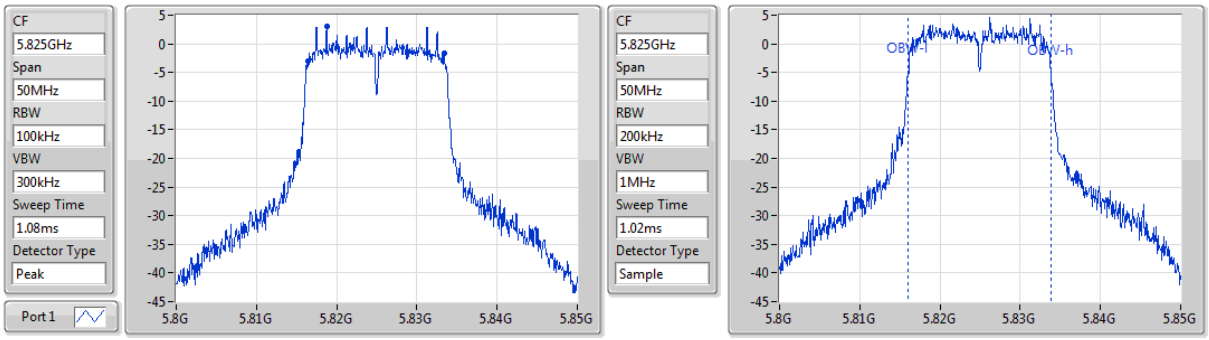
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.812M	5.776594G	5.793406G	17.8M	5.776027G	5.793828G	500k	1

802.11n HT20_Nss1,(MCS0)_1TX EBW

5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.957M	5.816449G	5.833406G	17.8M	5.816027G	5.833828G	500k	1

3.3 RF Output Power

3.3.1 Limit of RF Output Power

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

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

3.3.2 Test Procedures

Method PM-G (Measurement using a gated RF average power meter)

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

3.3.3 Test Setup

3.3.4 Test Result of Maximum Conducted Output Power

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**16.47**	0.04436	20.37	0.10889
802.11n HT20_Nss1,(MCS0)_1TX	16.43	0.04395	20.33	0.10789
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**16.73**	0.04710	20.63	0.11561
802.11n HT20_Nss1,(MCS0)_1TX	16.47	0.04436	20.37	0.10889
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**17.76**	0.05970	21.76	0.14997
802.11n HT20_Nss1,(MCS0)_1TX	17.68	0.05861	21.68	0.14723
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**18.43**	0.06966	22.43	0.17498
802.11n HT20_Nss1,(MCS0)_1TX	18.42	0.06950	22.42	0.17458

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	15.76	15.76	24.00	19.66	30.00
5200MHz	Pass	3.90	15.16	15.16	24.00	19.06	30.00
5240MHz	Pass	3.90	16.47	**16.47**	24.00	20.37	30.00
5260MHz	Pass	3.90	16.73	**16.73**	24.00	20.63	30.00
5300MHz	Pass	3.90	16.16	16.16	24.00	20.06	30.00
5320MHz	Pass	3.90	15.75	15.75	24.00	19.65	30.00
5500MHz	Pass	4.00	15.37	15.37	24.00	19.37	30.00
5580MHz	Pass	4.00	17.76	**17.76**	24.00	21.76	30.00
5700MHz	Pass	4.00	15.15	15.15	24.00	19.15	30.00
5745MHz	Pass	4.00	15.72	15.72	30.00	19.72	36.00
5785MHz	Pass	4.00	18.22	18.22	30.00	22.22	36.00
5825MHz	Pass	4.00	18.43	**18.43**	30.00	22.43	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	15.60	15.60	24.00	19.50	30.00
5200MHz	Pass	3.90	15.16	15.16	24.00	19.06	30.00
5240MHz	Pass	3.90	16.43	16.43	24.00	20.33	30.00
5260MHz	Pass	3.90	16.47	16.47	24.00	20.37	30.00
5300MHz	Pass	3.90	16.19	16.19	24.00	20.09	30.00
5320MHz	Pass	3.90	15.55	15.55	24.00	19.45	30.00
5500MHz	Pass	4.00	15.19	15.19	24.00	19.19	30.00
5580MHz	Pass	4.00	17.68	17.68	24.00	21.68	30.00
5700MHz	Pass	4.00	15.01	15.01	24.00	19.01	30.00
5745MHz	Pass	4.00	15.58	15.58	30.00	19.58	36.00
5785MHz	Pass	4.00	18.42	18.42	30.00	22.42	36.00
5825MHz	Pass	4.00	17.58	17.58	30.00	21.58	36.00

DG = Directional Gain;**Port X** = Port X output power

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
☒	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

Duty cycle ≥ 98 %

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.

Duty cycle < 98 %

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

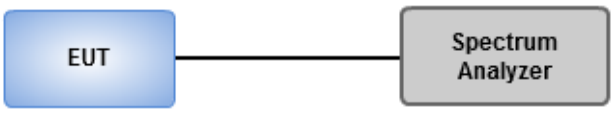
Duty cycle ≥ 98 %

1. Set RBW = 500 kHz, 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.

Duty cycle < 98 %

1. Set RBW = 500 kHz, 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.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	3.01	6.91
802.11n HT20_Nss1,(MCS0)_1TX	2.83	6.73
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	2.67	6.57
802.11n HT20_Nss1,(MCS0)_1TX	2.32	6.22
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	3.91	7.91
802.11n HT20_Nss1,(MCS0)_1TX	3.59	7.59
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	1.64	5.64
802.11n HT20_Nss1,(MCS0)_1TX	1.58	5.58

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

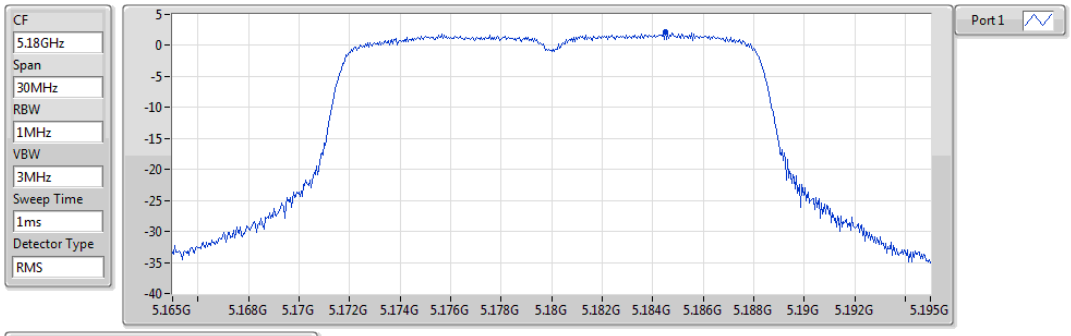
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	2.18	2.18	11.00	6.08	17.00
5200MHz	Pass	3.90	2.03	2.03	11.00	5.93	17.00
5240MHz	Pass	3.90	3.01	3.01	11.00	6.91	17.00
5260MHz	Pass	3.90	2.67	2.67	11.00	6.57	17.00
5300MHz	Pass	3.90	2.38	2.38	11.00	6.28	17.00
5320MHz	Pass	3.90	1.07	1.07	11.00	4.97	17.00
5500MHz	Pass	4.00	1.21	1.21	11.00	5.21	17.00
5580MHz	Pass	4.00	3.91	3.91	11.00	7.91	17.00
5700MHz	Pass	4.00	0.88	0.88	11.00	4.88	17.00
5745MHz	Pass	4.00	-0.62	-0.62	30.00	3.38	36.00
5785MHz	Pass	4.00	1.37	1.37	30.00	5.37	36.00
5825MHz	Pass	4.00	1.64	1.64	30.00	5.64	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.90	2.03	2.03	11.00	5.93	17.00
5200MHz	Pass	3.90	1.33	1.33	11.00	5.23	17.00
5240MHz	Pass	3.90	2.83	2.83	11.00	6.73	17.00
5260MHz	Pass	3.90	2.32	2.32	11.00	6.22	17.00
5300MHz	Pass	3.90	2.01	2.01	11.00	5.91	17.00
5320MHz	Pass	3.90	0.68	0.68	11.00	4.58	17.00
5500MHz	Pass	4.00	0.80	0.80	11.00	4.80	17.00
5580MHz	Pass	4.00	3.59	3.59	11.00	7.59	17.00
5700MHz	Pass	4.00	0.42	0.42	11.00	4.42	17.00
5745MHz	Pass	4.00	-0.85	-0.85	30.00	3.15	36.00
5785MHz	Pass	4.00	1.58	1.58	30.00	5.58	36.00
5825MHz	Pass	4.00	0.80	0.80	30.00	4.80	36.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_1TX **PSD**

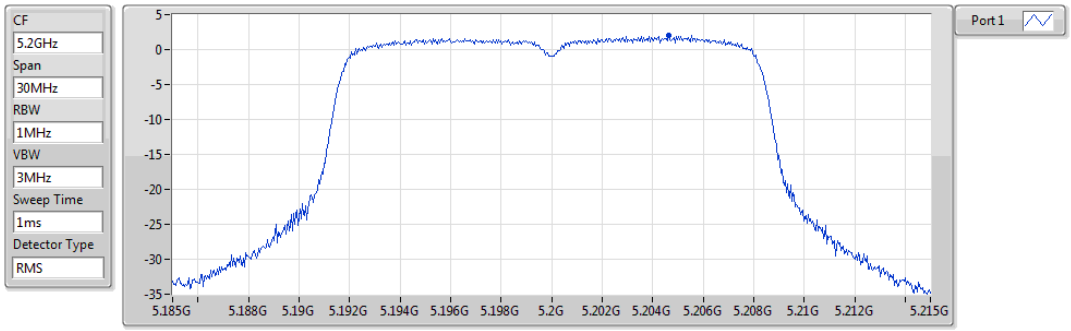
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.18	2.18	2.18

802.11a_Nss1,(6Mbps)_1TX **PSD**

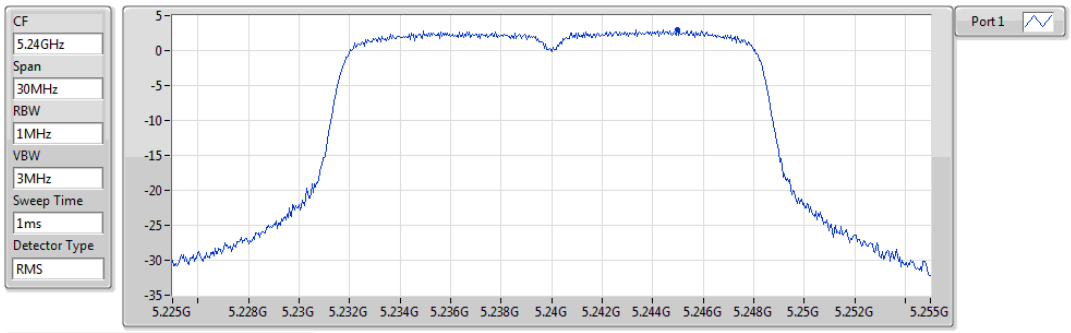
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.03	2.03	2.03

802.11a_Nss1,(6Mbps)_1TX **PSD**

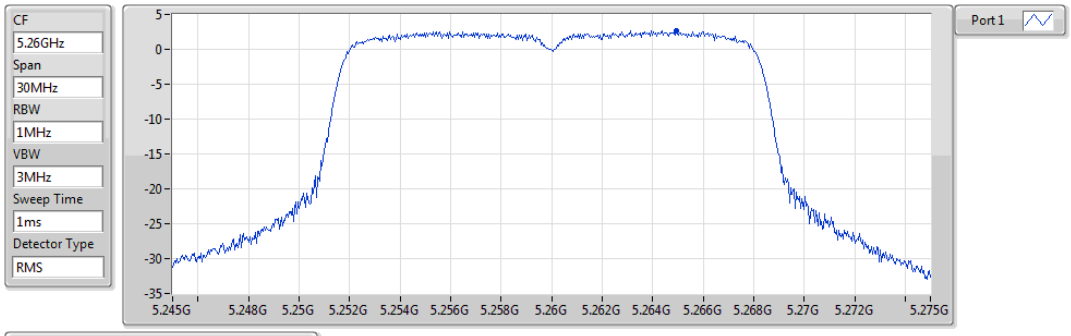
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.01	3.01	3.01

802.11a_Nss1,(6Mbps)_1TX **PSD**

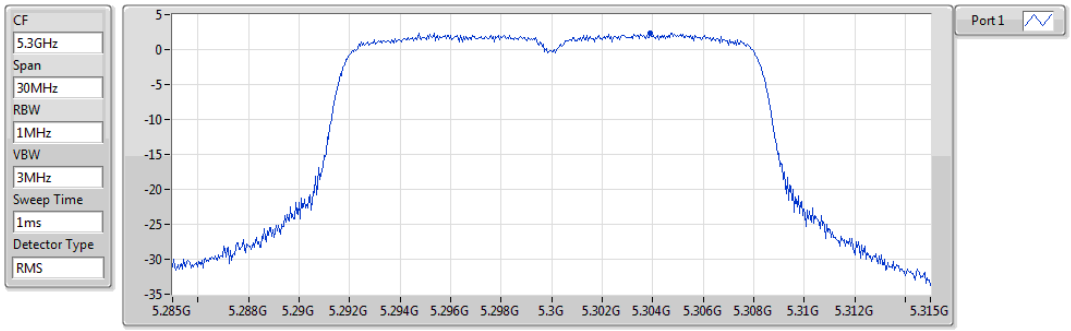
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.67	2.67	2.67

802.11a_Nss1,(6Mbps)_1TX **PSD**

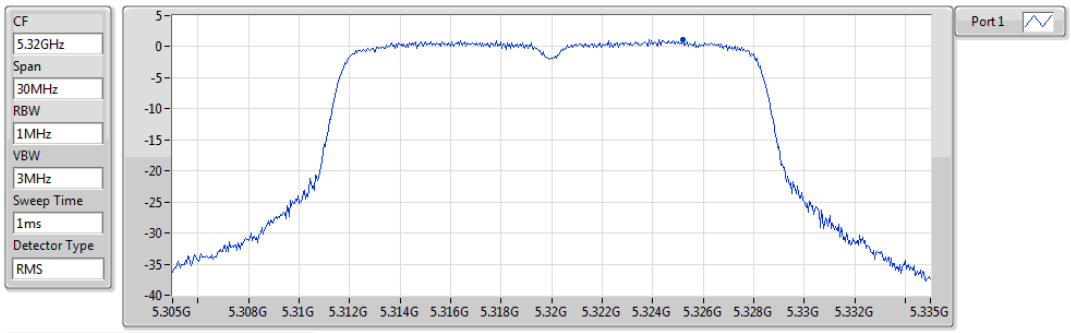
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.38	2.38	2.38

802.11a_Nss1,(6Mbps)_1TX **PSD**

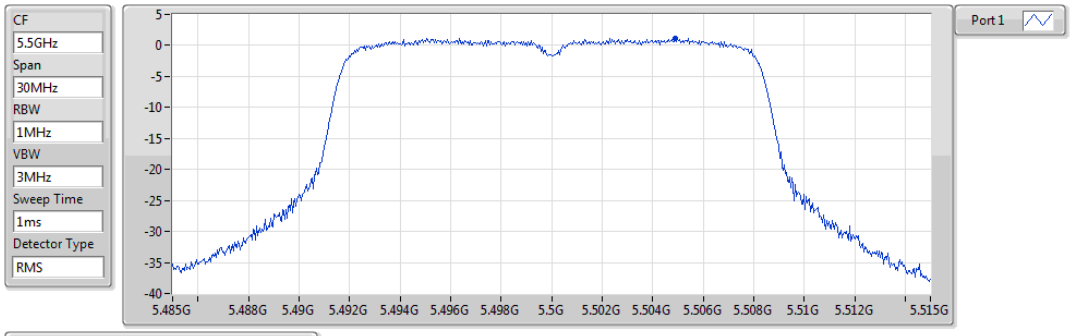
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.07	1.07	1.07

802.11a_Nss1,(6Mbps)_1TX **PSD**

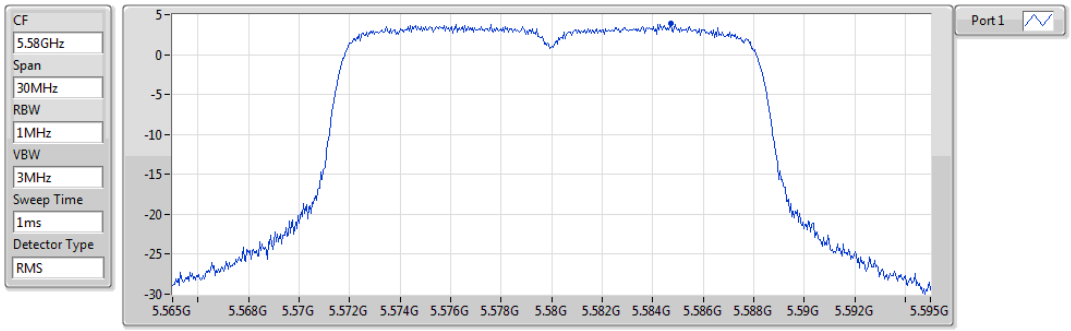
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.21	1.21	1.21

802.11a_Nss1,(6Mbps)_1TX **PSD**

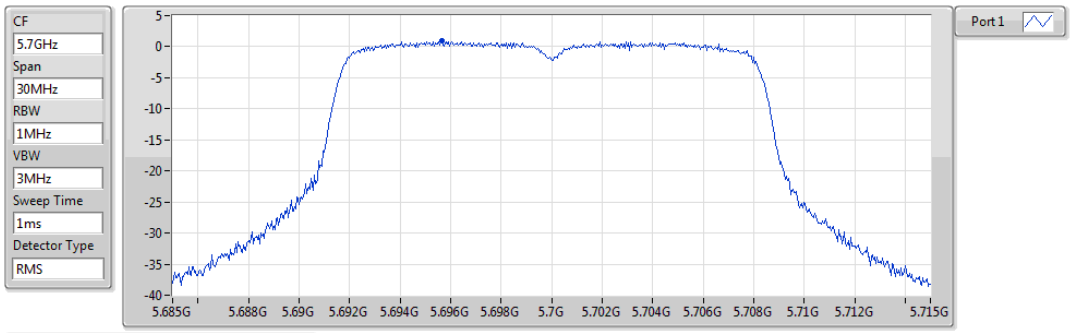
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.91	3.91	3.91

802.11a_Nss1,(6Mbps)_1TX **PSD**

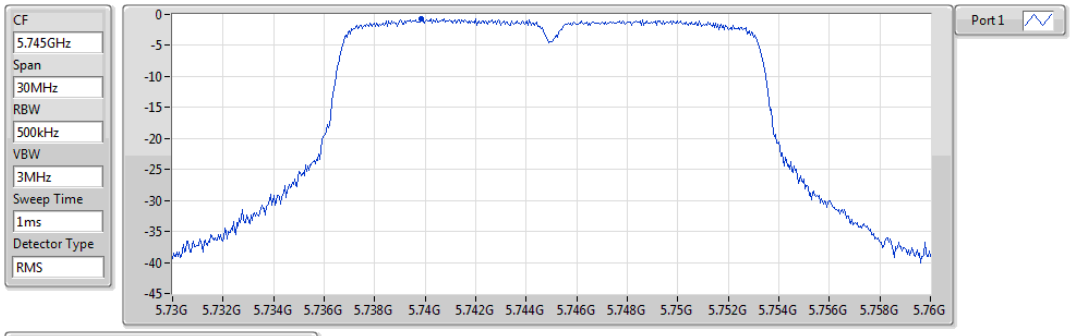
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.88	0.88	0.88

802.11a_Nss1,(6Mbps)_1TX **PSD**

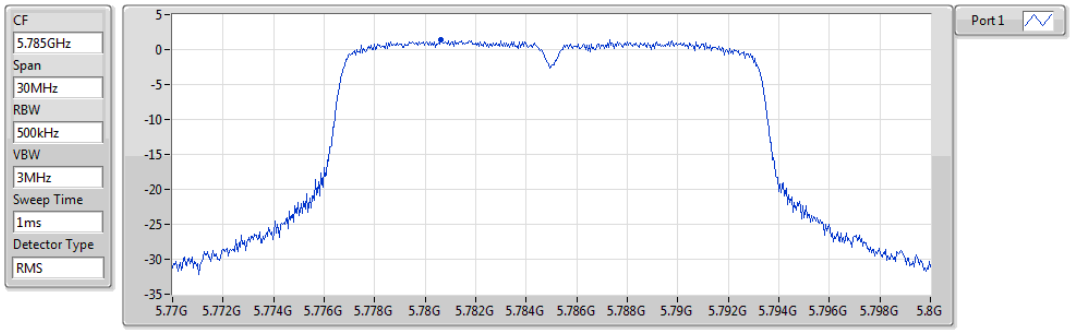
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.62	-0.62	-0.62

802.11a_Nss1,(6Mbps)_1TX **PSD**

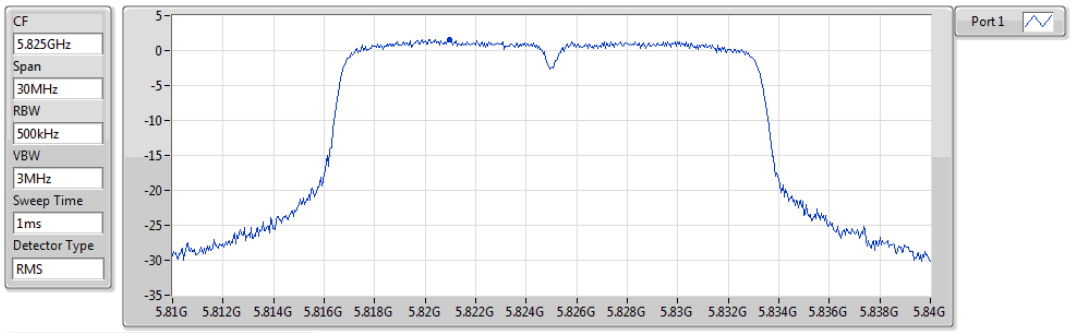
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.37	1.37	1.37

802.11a_Nss1,(6Mbps)_1TX **PSD**

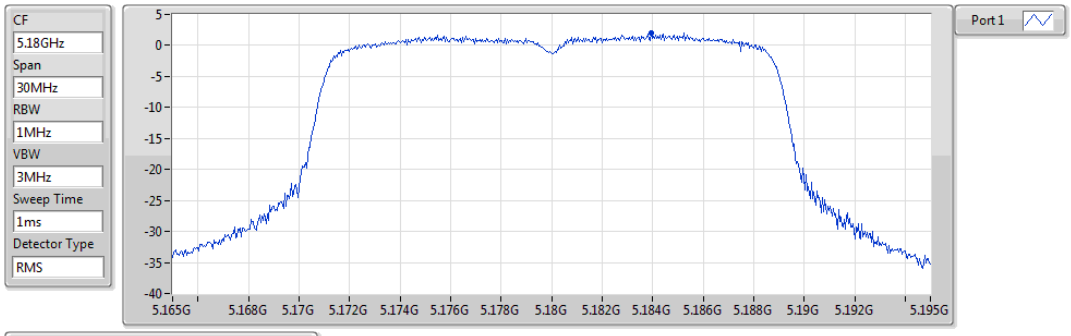
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.64	1.64	1.64

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

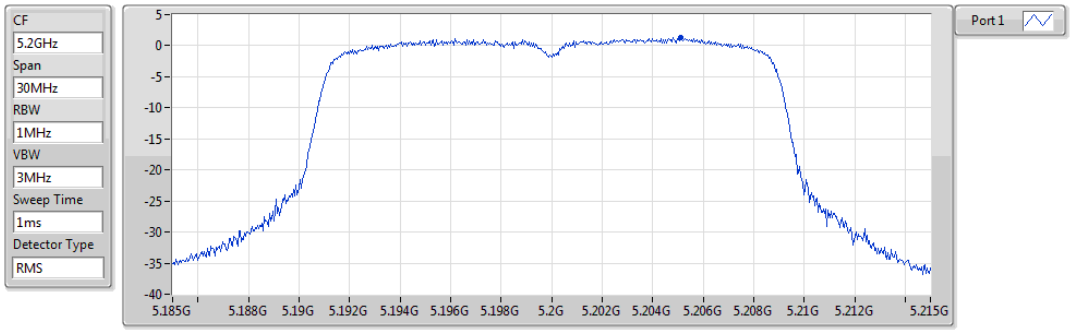
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.03	2.03	2.03

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

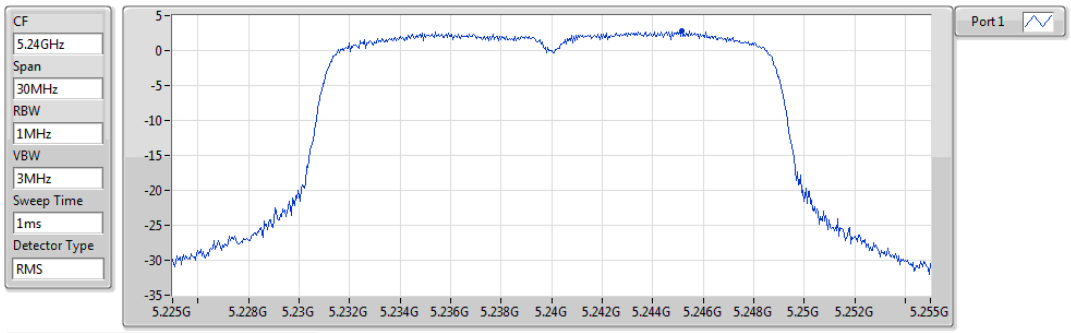
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.33	1.33	1.33

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

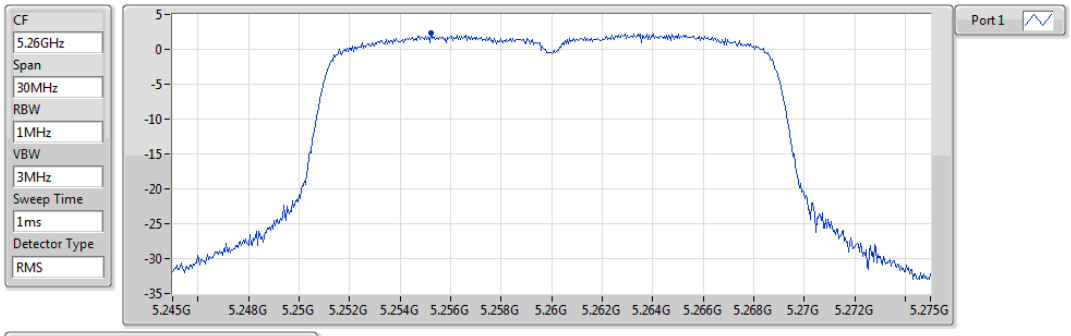
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.83	2.83	2.83

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

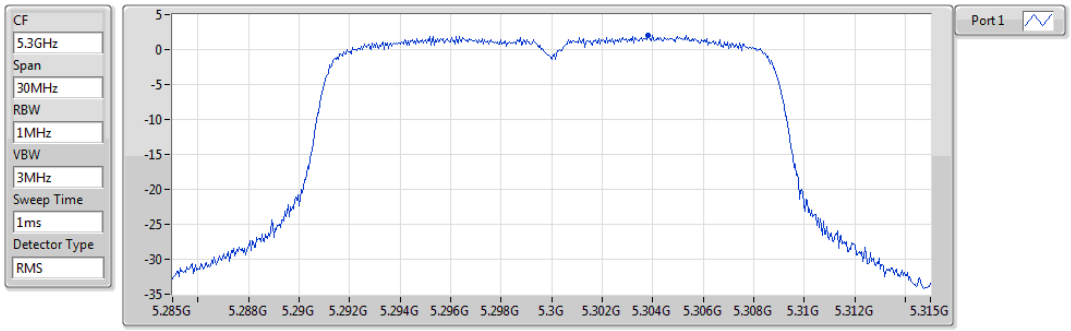
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.32	2.32	2.32

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

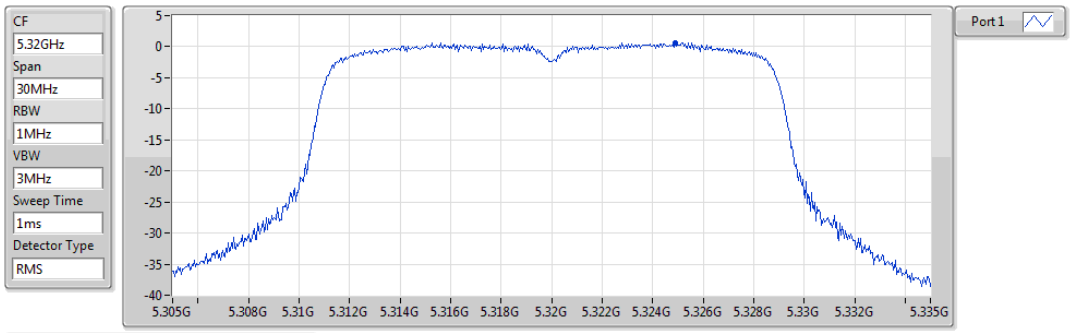
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.01	2.01	2.01

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

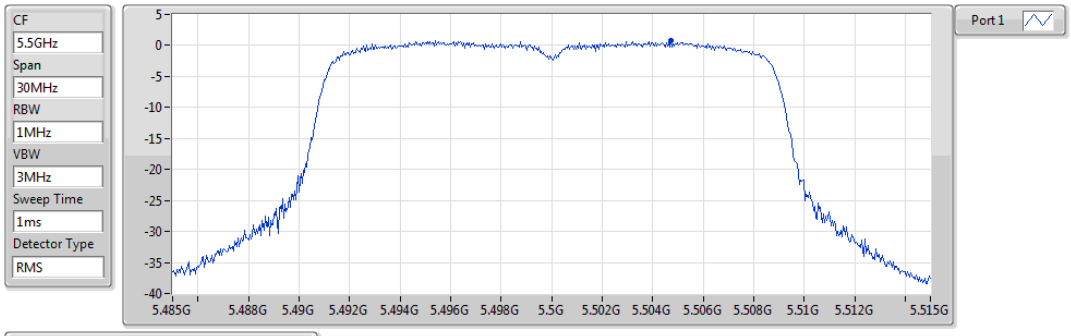
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.68	0.68	0.68

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

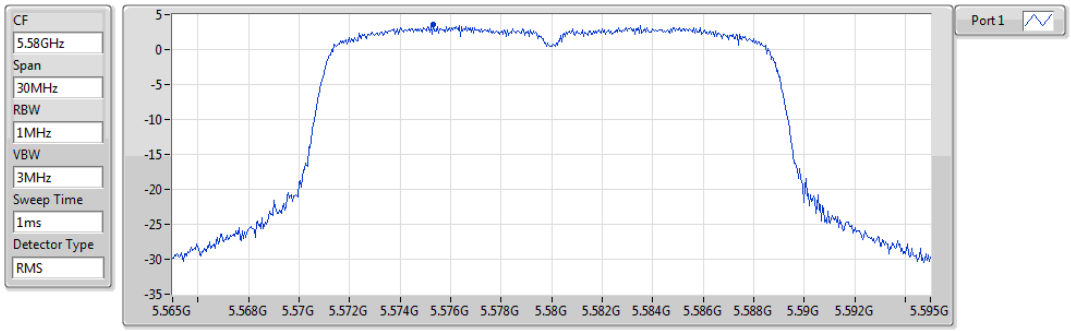
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.80	0.80	0.80

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

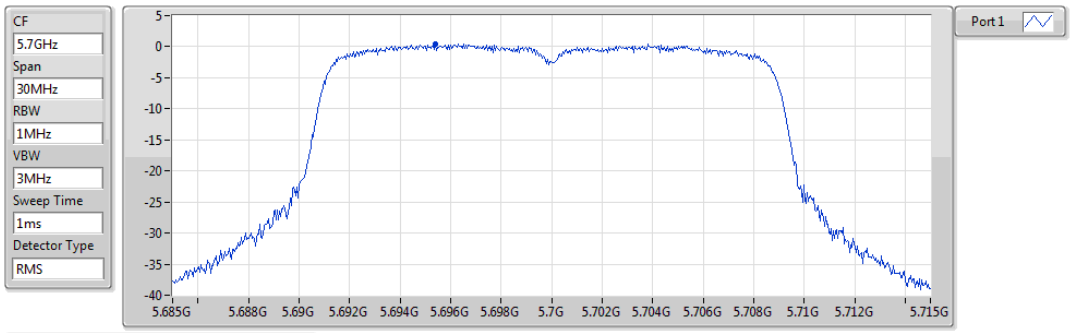
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.59	3.59	3.59

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

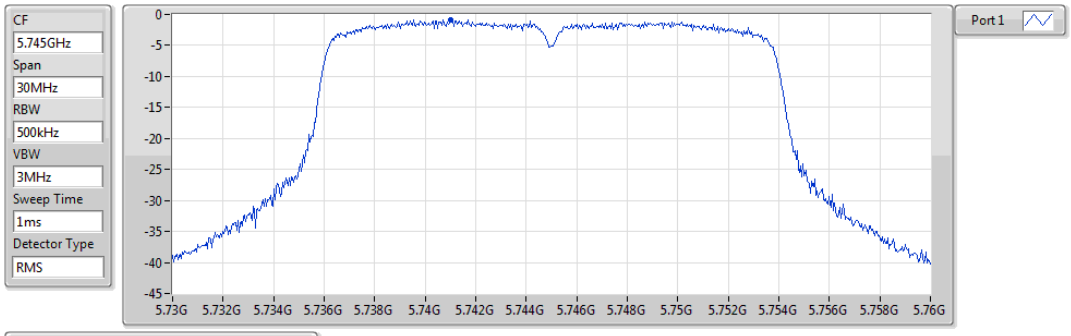
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.42	0.42	0.42

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

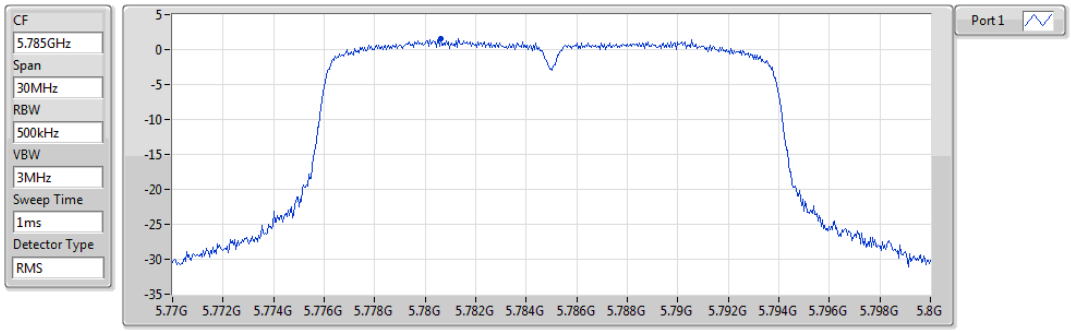
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.85	-0.85	-0.85

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

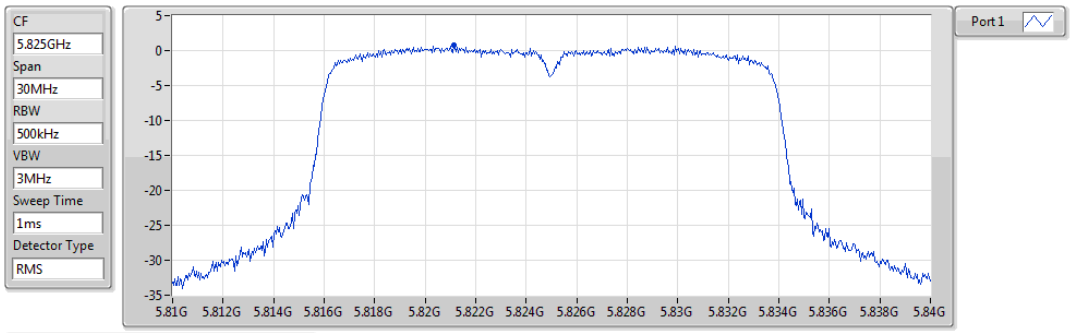
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.58	1.58	1.58

802.11n HT20_Nss1,(MCS0)_1TX **PSD**

5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.80	0.80	0.80

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	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.

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

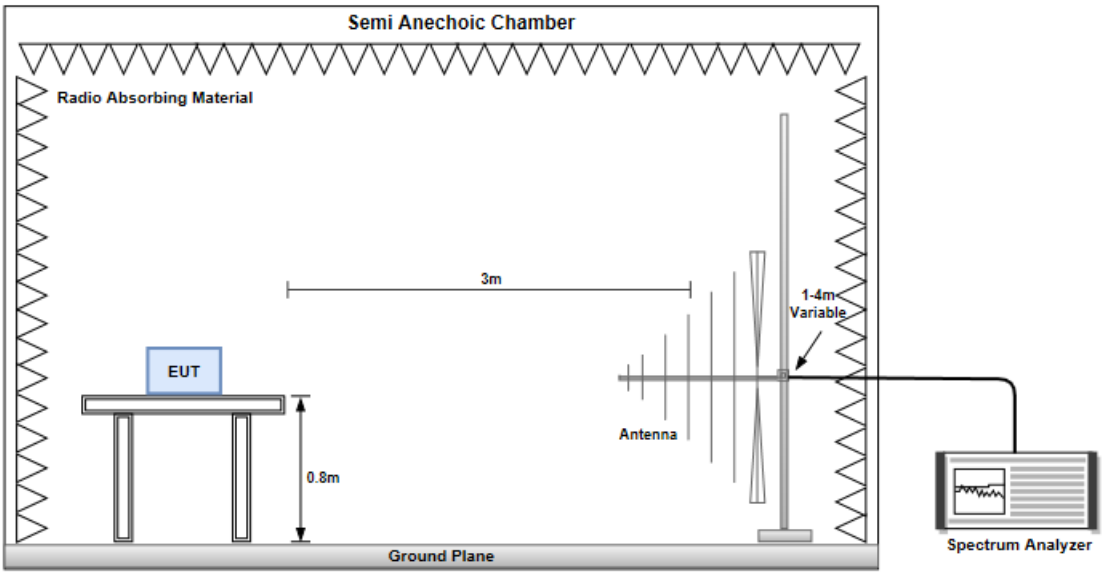
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

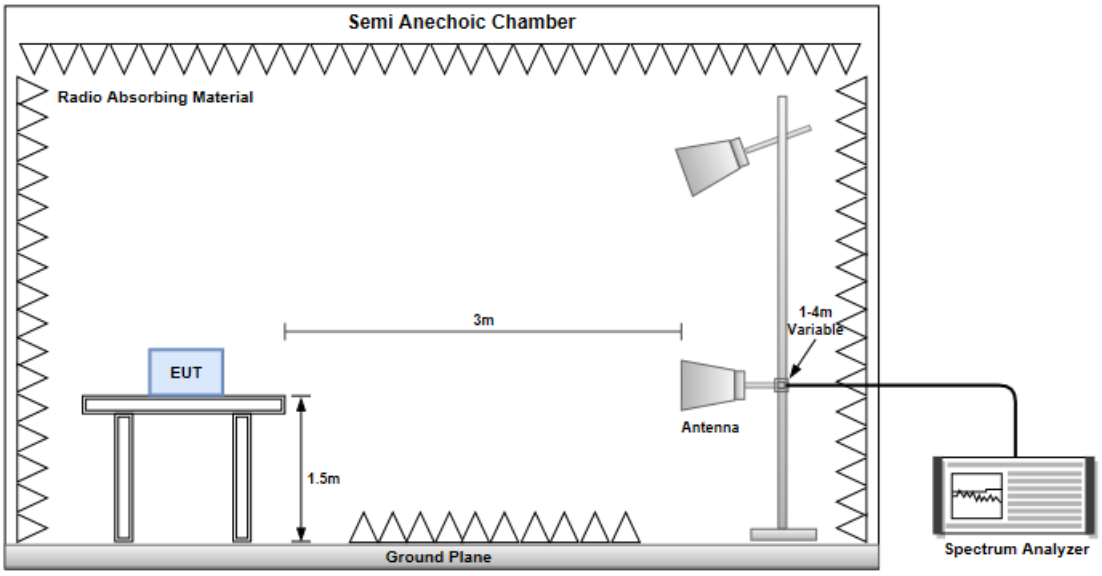
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



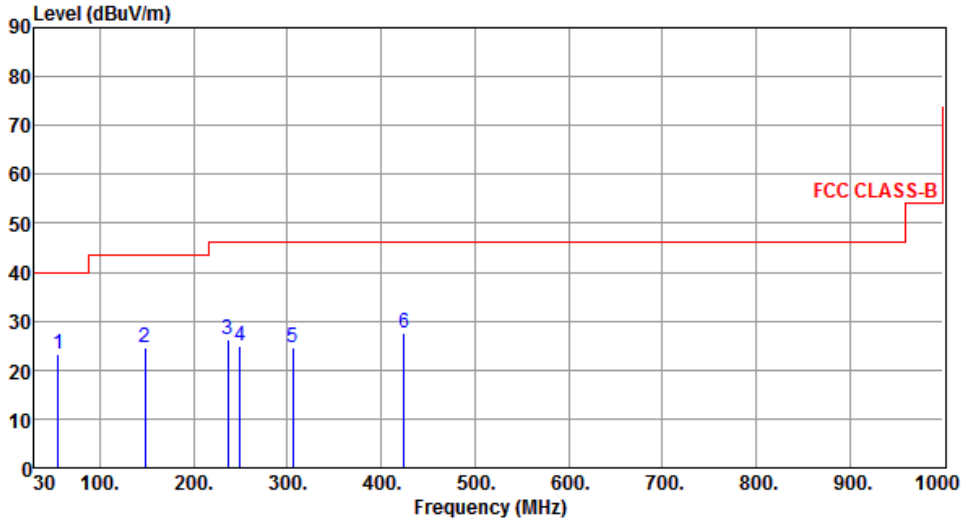
Radiated Emissions above 1 GHz



Configuration 1 : PCB Dipole antenna (Antenna No.3) , Y-plane

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

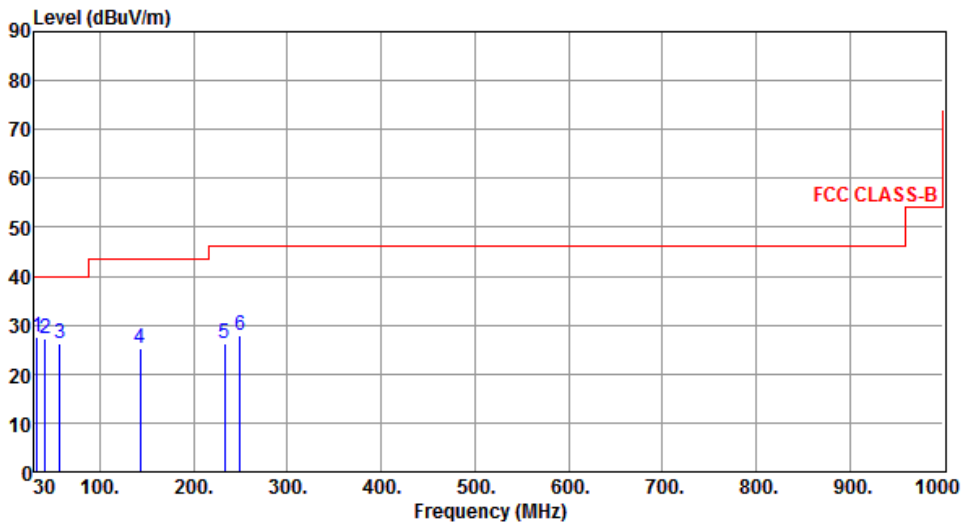
Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	55.33	23.41	40.00	-16.59	32.46	-9.05	Peak	---	---
2	148.42	24.61	43.50	-18.89	33.44	-8.83	Peak	---	---
3	236.59	26.21	46.00	-19.79	36.90	-10.69	Peak	---	---
4	249.28	24.86	46.00	-21.14	34.94	-10.08	Peak	---	---
5	305.48	24.74	46.00	-21.26	33.06	-8.32	Peak	---	---
6	424.80	27.68	46.00	-18.32	32.81	-5.13	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.

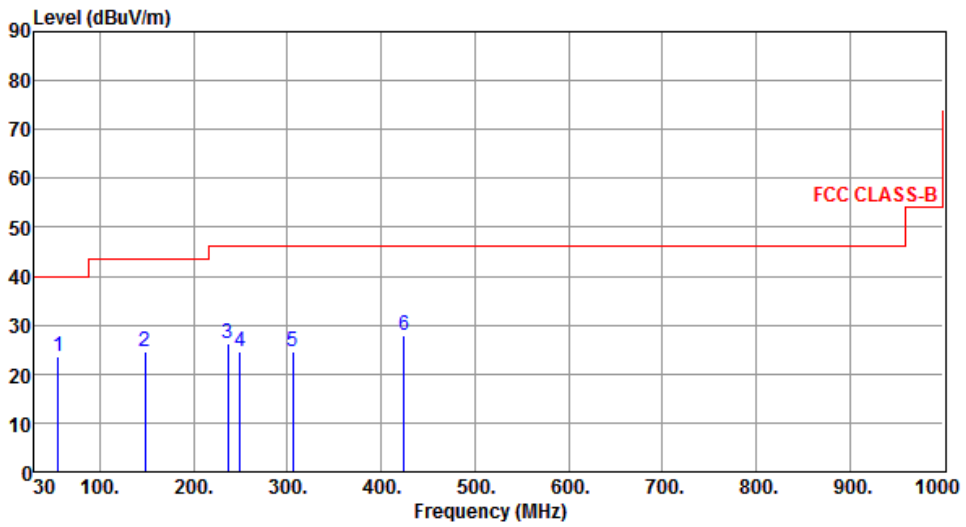
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	32.88	27.65	40.00	-12.35	37.71	-10.06	Peak	---	---
2	41.51	27.29	40.00	-12.71	36.44	-9.15	Peak	---	---
3	57.22	26.31	40.00	-13.69	35.37	-9.06	Peak	---	---
4	142.52	25.34	43.50	-18.16	34.43	-9.09	Peak	---	---
5	232.66	26.31	46.00	-19.69	37.51	-11.20	Peak	---	---
6	249.31	27.81	46.00	-18.19	37.89	-10.08	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.

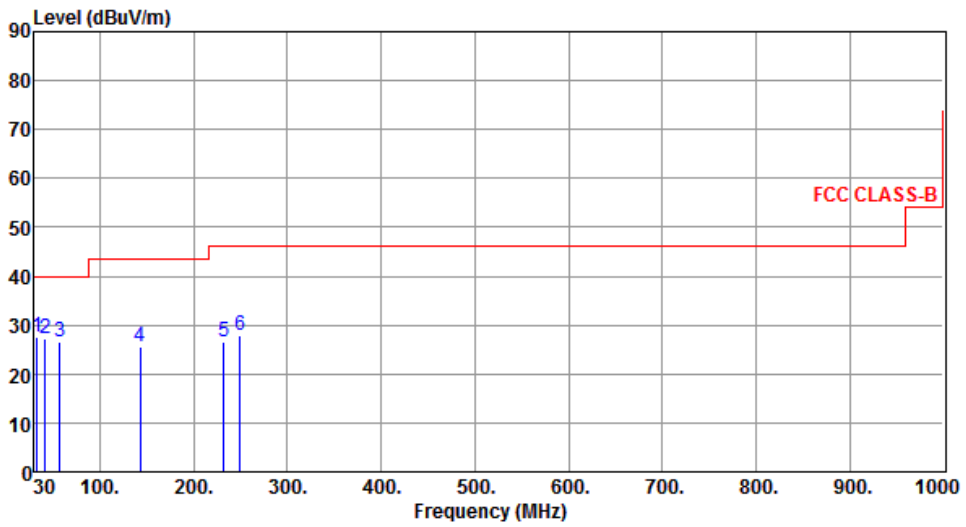
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	55.33	23.51	40.00	-16.49	32.56	-9.05	Peak	---	---
2	148.38	24.59	43.50	-18.91	33.42	-8.83	Peak	---	---
3	236.61	26.31	46.00	-19.69	37.00	-10.69	Peak	---	---
4	249.33	24.74	46.00	-21.26	34.82	-10.08	Peak	---	---
5	305.61	24.69	46.00	-21.31	33.01	-8.32	Peak	---	---
6	424.65	27.77	46.00	-18.23	32.91	-5.14	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	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

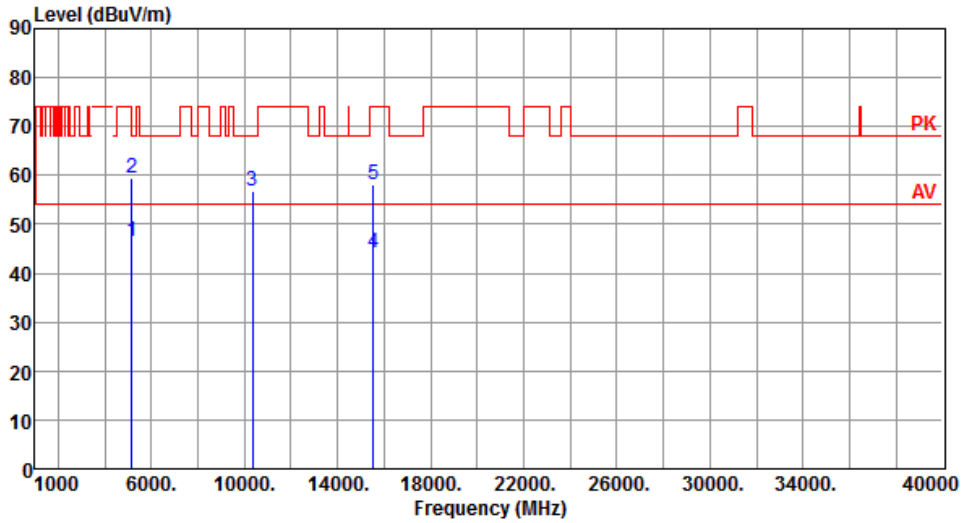


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	32.71	27.61	40.00	-12.39	37.69	-10.08	Peak	---	---
2	41.66	27.33	40.00	-12.67	36.45	-9.12	Peak	---	---
3	57.34	26.48	40.00	-13.52	35.57	-9.09	Peak	---	---
4	142.51	25.67	43.50	-17.83	34.76	-9.09	Peak	---	---
5	232.51	26.48	46.00	-19.52	37.71	-11.23	Peak	---	---
6	249.33	27.88	46.00	-18.12	37.96	-10.08	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

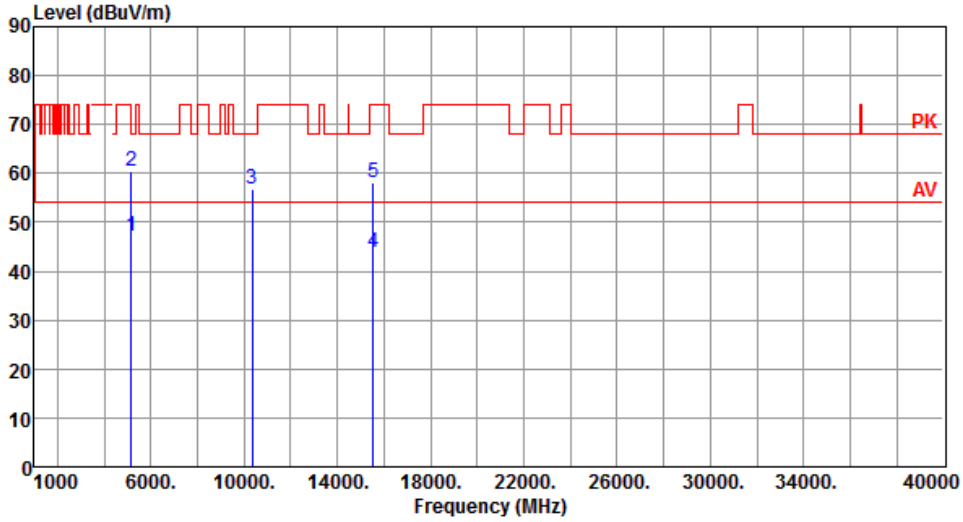
Modulation	11a	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	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	46.36	54.00	-7.64	40.41	5.95	Average	100	76
2	5150.00	59.43	74.00	-14.57	53.48	5.95	Peak	100	76
3	10360.00	56.72	68.20	-11.48	41.62	15.10	Peak	100	50
4	15540.00	44.20	54.00	-9.80	28.55	15.65	Average	100	55
5	15540.00	58.01	74.00	-15.99	42.36	15.65	Peak	100	55

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

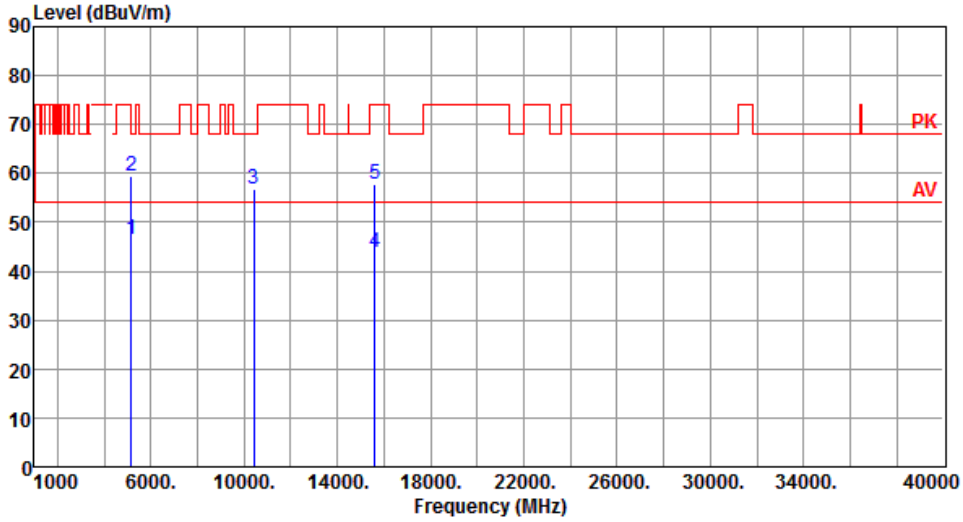
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	47.16	54.00	-6.84	41.21	5.95	Average	105	184
2	5150.00	60.41	74.00	-13.59	54.46	5.95	Peak	103	184
3	10360.00	56.63	68.20	-11.57	41.53	15.10	Peak	100	70
4	15540.00	43.96	54.00	-10.04	28.31	15.65	Average	100	90
5	15540.00	58.13	74.00	-15.87	42.48	15.65	Peak	100	90

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

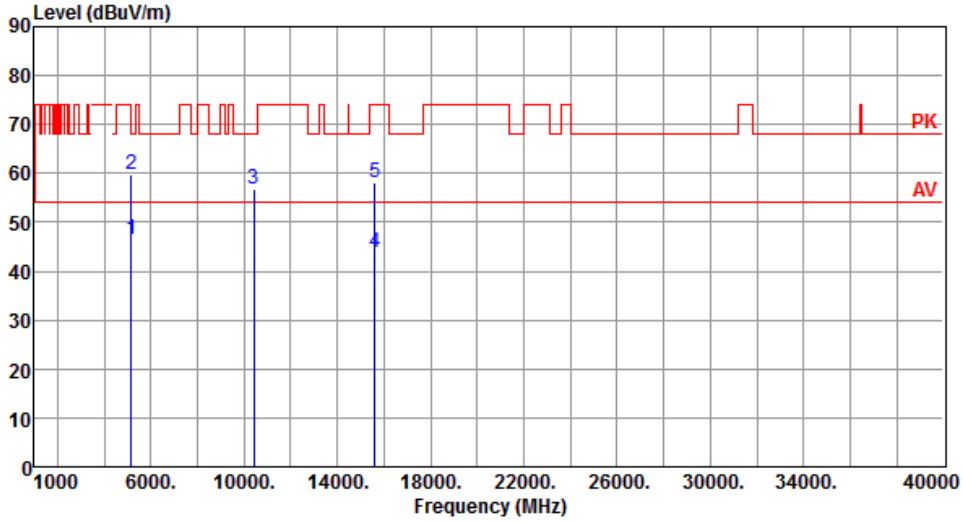
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	46.53	54.00	-7.47	40.58	5.95	Average	100	80
2	5150.00	59.42	74.00	-14.58	53.47	5.95	Peak	100	80
3	10400.00	56.92	68.20	-11.28	41.59	15.33	Peak	100	60
4	15600.00	43.99	54.00	-10.01	28.50	15.49	Average	100	30
5	15600.00	57.95	74.00	-16.05	42.46	15.49	Peak	100	40

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

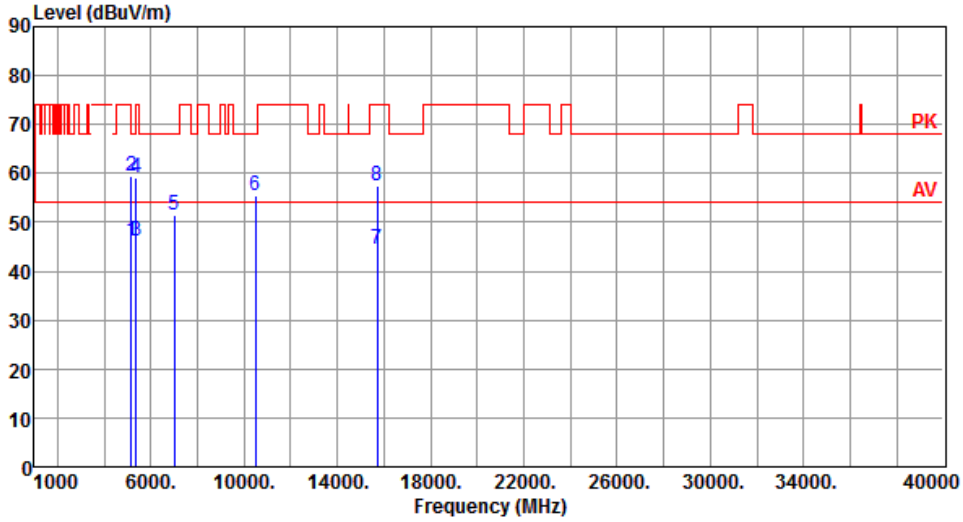
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	46.56	54.00	-7.44	40.61	5.95	Average	193	63
2	5150.00	59.79	74.00	-14.21	53.84	5.95	Peak	193	63
3	10400.00	56.94	68.20	-11.26	41.61	15.33	Peak	100	20
4	15600.00	43.96	54.00	-10.04	28.47	15.49	Average	100	80
5	15600.00	58.10	74.00	-15.90	42.61	15.49	Peak	100	80

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

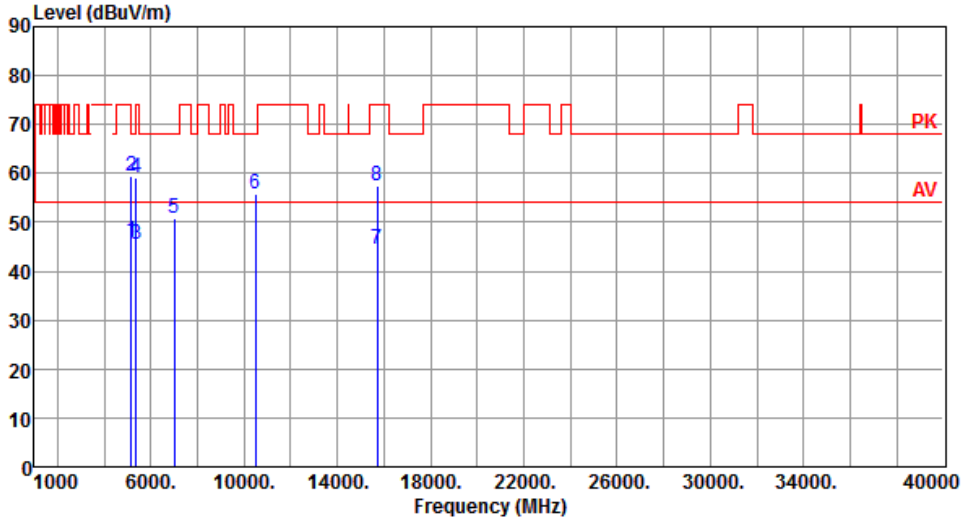
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	46.26	54.00	-7.74	40.31	5.95	Average	100	72
2	5150.00	59.44	74.00	-14.56	53.49	5.95	Peak	100	72
3	5350.00	46.01	54.00	-7.99	40.61	5.40	Average	100	72
4	5350.00	59.01	74.00	-14.99	53.61	5.40	Peak	100	72
5	6986.66	51.54	68.20	-16.66	42.25	9.29	Peak	100	140
6	10480.00	55.52	68.20	-12.68	40.21	15.31	Peak	100	55
7	15720.00	44.45	54.00	-9.55	29.22	15.23	Average	100	25
8	15720.00	57.59	74.00	-16.41	42.36	15.23	Peak	100	25

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

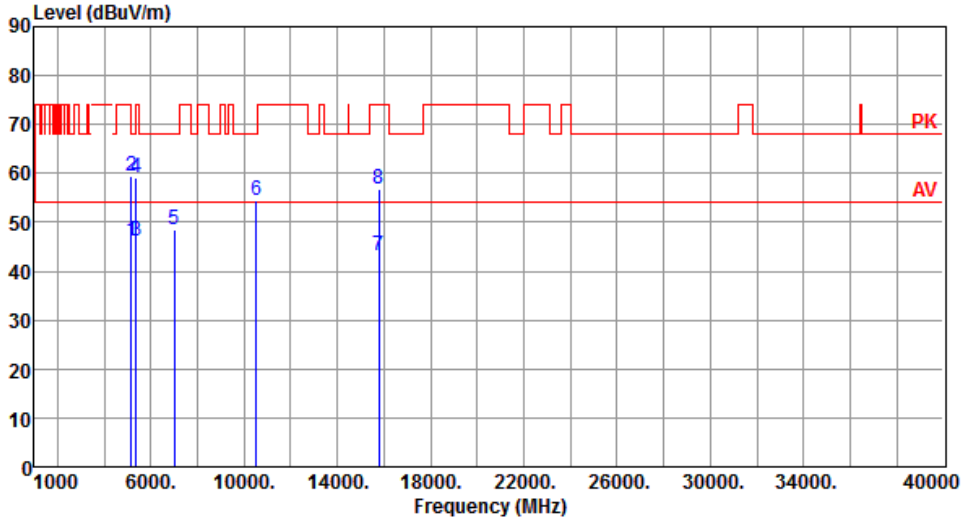
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	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	46.16	54.00	-7.84	40.21	5.95	Average	191	70
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	191	70
3	5350.00	45.65	54.00	-8.35	40.25	5.40	Average	191	70
4	5350.00	59.07	74.00	-14.93	53.67	5.40	Peak	191	70
5	6986.66	50.90	68.20	-17.30	41.61	9.29	Peak	100	130
6	10480.00	55.77	68.20	-12.43	40.46	15.31	Peak	100	20
7	15720.00	44.54	54.00	-9.46	29.31	15.23	Average	100	40
8	15720.00	57.48	74.00	-16.52	42.25	15.23	Peak	100	40

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

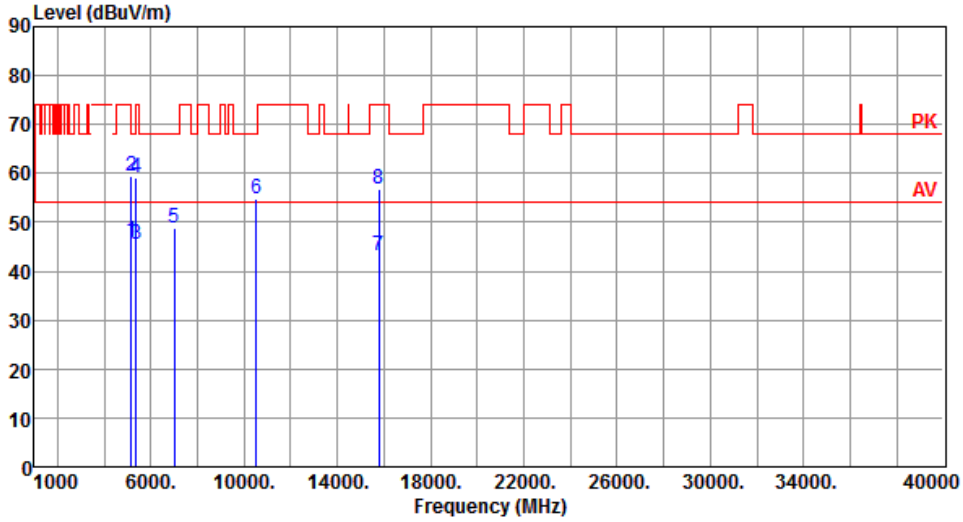
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.17	54.00	-7.83	40.22	5.95	Average	100	76
2	5150.00	59.31	74.00	-14.69	53.36	5.95	Peak	100	76
3	5350.00	46.01	54.00	-7.99	40.61	5.40	Average	100	76
4	5350.00	59.21	74.00	-14.79	53.81	5.40	Peak	100	76
5	7013.33	48.59	68.20	-19.61	39.21	9.38	Peak	100	166
6	10520.00	54.60	68.20	-13.60	39.27	15.33	Peak	100	50
7	15780.00	43.16	54.00	-10.84	28.21	14.95	Average	100	132
8	15780.00	56.77	74.00	-17.23	41.82	14.95	Peak	100	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).

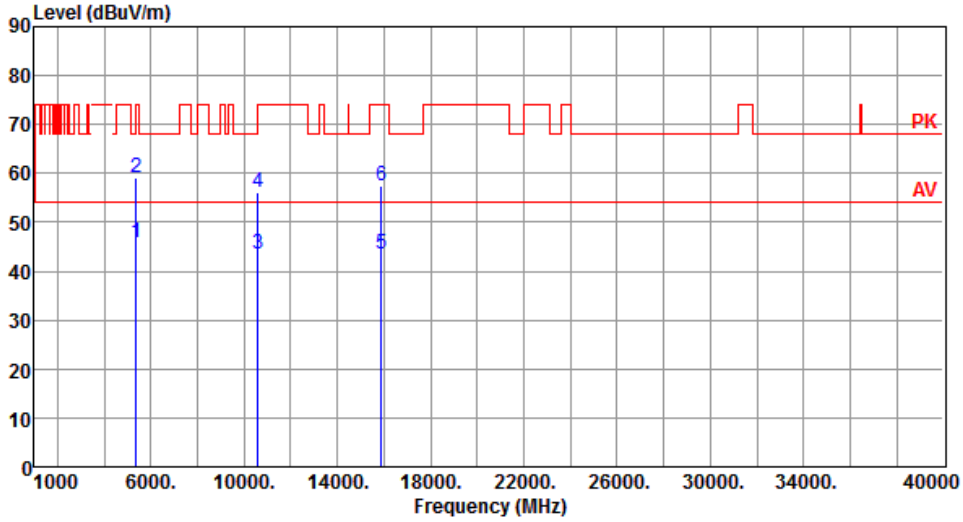
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	46.20	54.00	-7.80	40.25	5.95	Average	193	66
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	193	66
3	5350.00	45.62	54.00	-8.38	40.22	5.40	Average	193	66
4	5350.00	59.01	74.00	-14.99	53.61	5.40	Peak	193	66
5	7013.33	48.96	68.20	-19.24	39.58	9.38	Peak	205	88
6	10520.00	54.71	68.20	-13.49	39.38	15.33	Peak	100	320
7	15780.00	43.22	54.00	-10.78	28.27	14.95	Average	100	160
8	15780.00	56.64	74.00	-17.36	41.69	14.95	Peak	100	160

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

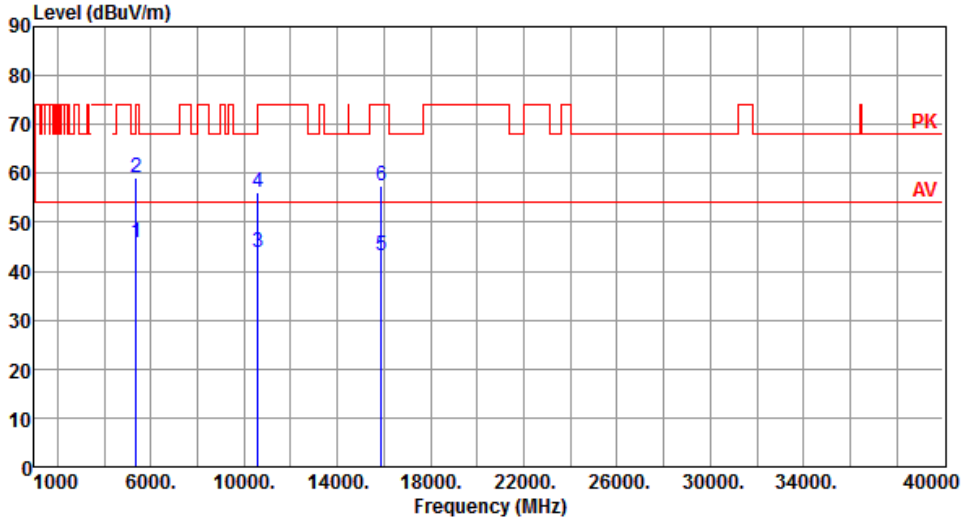
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	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	45.73	54.00	-8.27	40.33	5.40	Average	100	77
2	5350.00	59.25	74.00	-14.75	53.85	5.40	Peak	100	77
3	10600.00	43.65	54.00	-10.35	28.24	15.41	Average	100	50
4	10600.00	55.98	74.00	-18.02	40.57	15.41	Peak	100	50
5	15900.00	43.36	54.00	-10.64	28.47	14.89	Average	100	80
6	15900.00	57.35	74.00	-16.65	42.46	14.89	Peak	100	80

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

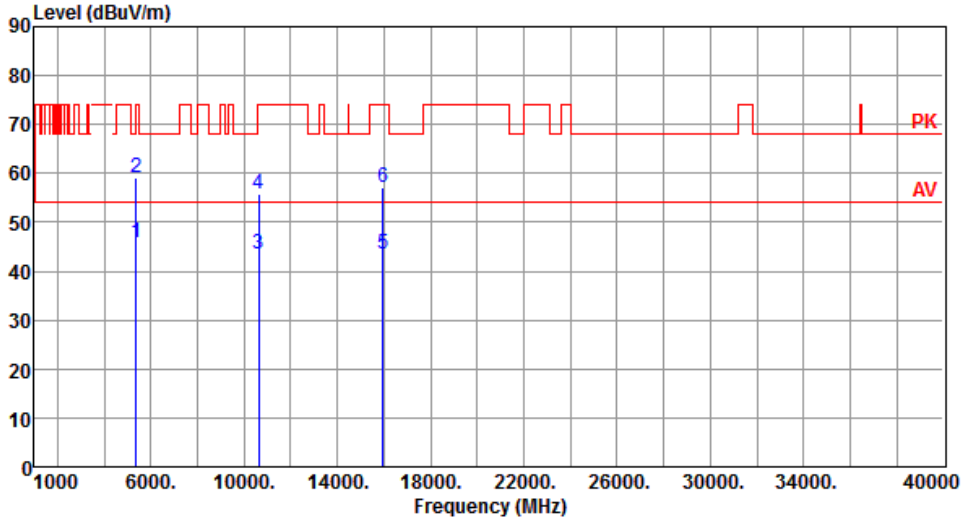
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	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	45.74	54.00	-8.26	40.34	5.40	Average	191	61
2	5350.00	58.95	74.00	-15.05	53.55	5.40	Peak	191	61
3	10600.00	43.71	54.00	-10.29	28.30	15.41	Average	100	60
4	10600.00	56.01	74.00	-17.99	40.60	15.41	Peak	100	60
5	15900.00	43.34	54.00	-10.66	28.45	14.89	Average	100	55
6	15900.00	57.46	74.00	-16.54	42.57	14.89	Peak	100	55

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

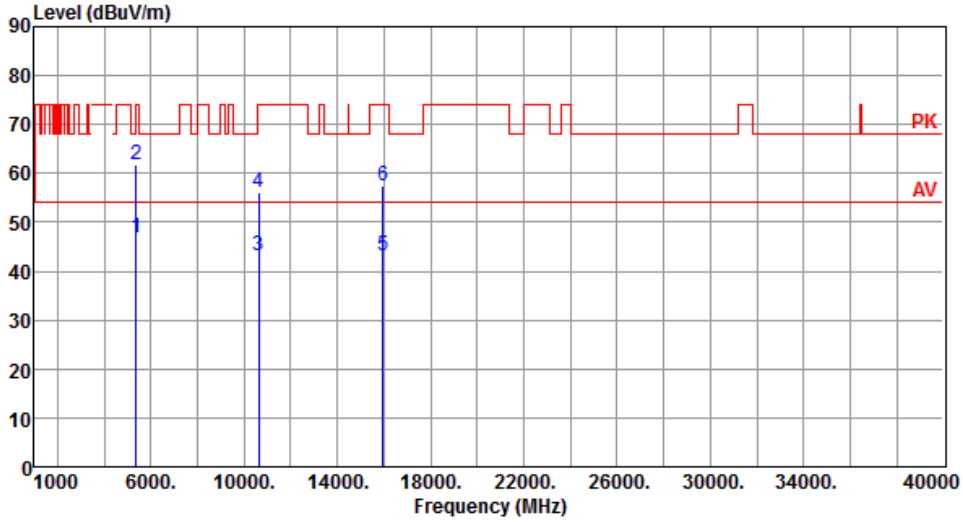
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	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	45.91	54.00	-8.09	40.51	5.40	Average	100	77
2	5350.00	59.01	74.00	-14.99	53.61	5.40	Peak	100	77
3	10640.00	43.58	54.00	-10.42	28.22	15.36	Average	100	20
4	10640.00	55.67	74.00	-18.33	40.31	15.36	Peak	100	20
5	15960.00	43.55	54.00	-10.45	28.64	14.91	Average	100	35
6	15960.00	57.22	74.00	-16.78	42.31	14.91	Peak	100	35

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

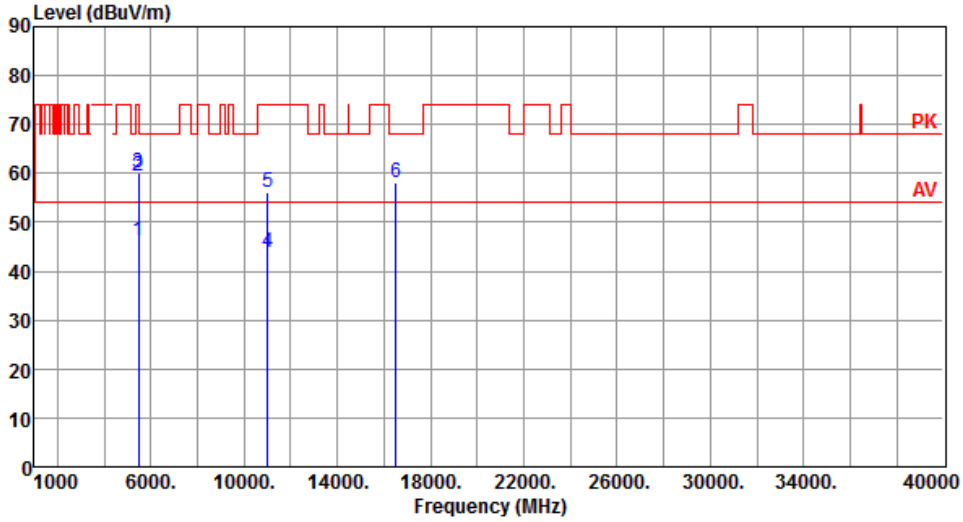
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	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	46.92	54.00	-7.08	41.52	5.40	Average	125	163
2	5350.00	61.62	74.00	-12.38	56.22	5.40	Peak	125	163
3	10640.00	43.17	54.00	-10.83	27.81	15.36	Average	100	30
4	10640.00	56.02	74.00	-17.98	40.66	15.36	Peak	100	30
5	15960.00	43.18	54.00	-10.82	28.27	14.91	Average	100	20
6	15960.00	57.42	74.00	-16.58	42.51	14.91	Peak	100	20

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

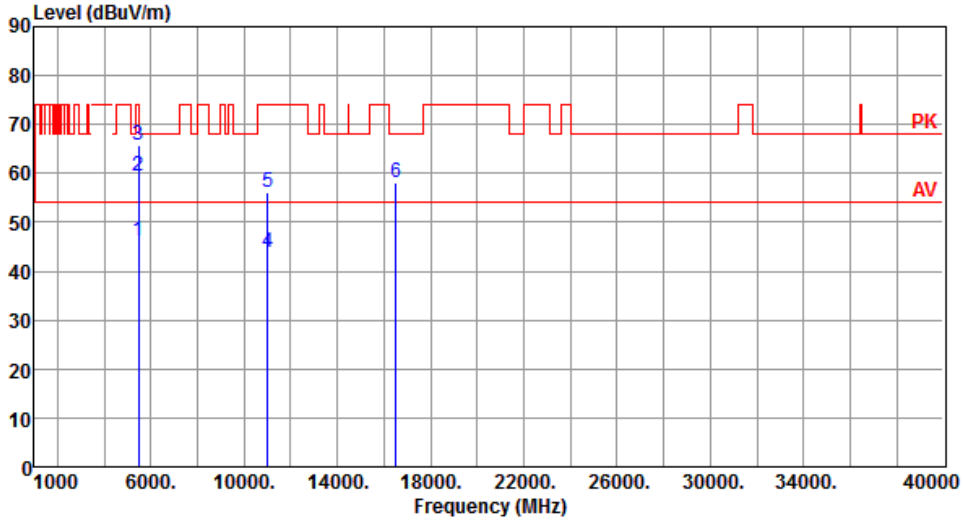
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	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	46.26	54.00	-7.74	40.34	5.92	Average	100	74
2	5460.00	59.50	74.00	-14.50	53.58	5.92	Peak	100	74
3	5470.00	60.27	68.20	-7.93	54.31	5.96	Peak	100	74
4	11000.00	43.83	54.00	-10.17	28.25	15.58	Average	100	70
5	11000.00	56.19	74.00	-17.81	40.61	15.58	Peak	100	70
6	16500.00	58.14	68.20	-10.06	42.31	15.83	Peak	100	60

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

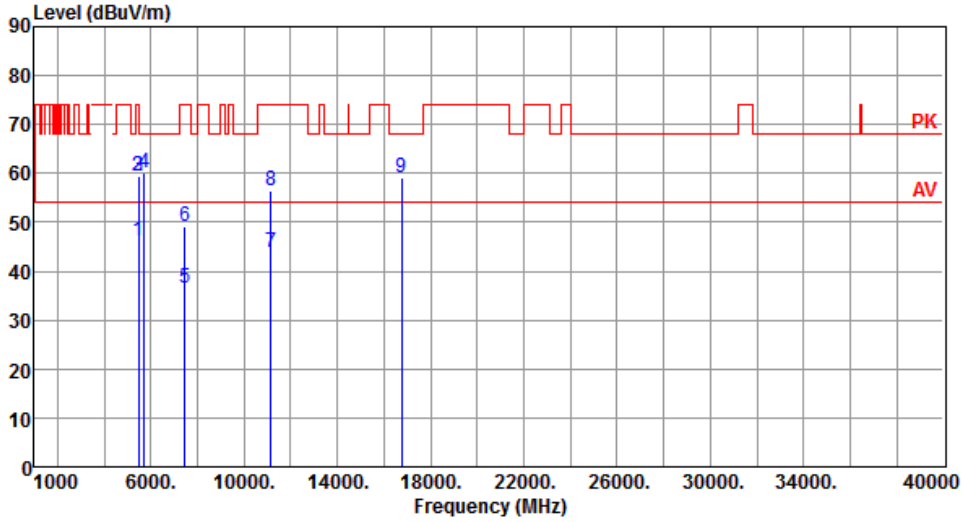
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	46.17	54.00	-7.83	40.25	5.92	Average	205	235
2	5460.00	59.52	74.00	-14.48	53.60	5.92	Peak	205	235
3	5470.00	65.80	68.20	-2.40	59.84	5.96	Peak	205	235
4	11000.00	43.89	54.00	-10.11	28.31	15.58	Average	100	40
5	11000.00	56.04	74.00	-17.96	40.46	15.58	Peak	100	40
6	16500.00	58.23	68.20	-9.97	42.40	15.83	Peak	100	55

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

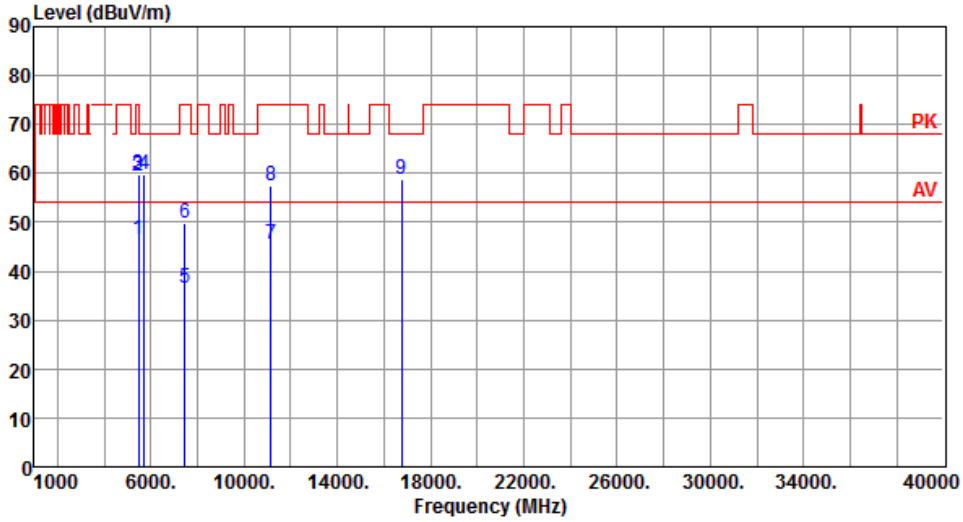
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	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	46.22	54.00	-7.78	40.30	5.92	Average	100	85
2	5460.00	59.58	74.00	-14.42	53.66	5.92	Peak	100	85
3	5470.00	59.51	68.20	-8.69	53.55	5.96	Peak	100	85
4	5725.00	60.10	68.20	-8.10	53.81	6.29	Peak	100	85
5	7440.00	36.57	54.00	-17.43	26.22	10.35	Average	100	165
6	7440.00	49.14	74.00	-24.86	38.79	10.35	Peak	100	165
7	11160.00	43.87	54.00	-10.13	28.61	15.26	Average	331	125
8	11160.00	56.55	74.00	-17.45	41.29	15.26	Peak	331	125
9	16740.00	59.05	68.20	-9.15	42.20	16.85	Peak	100	165

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

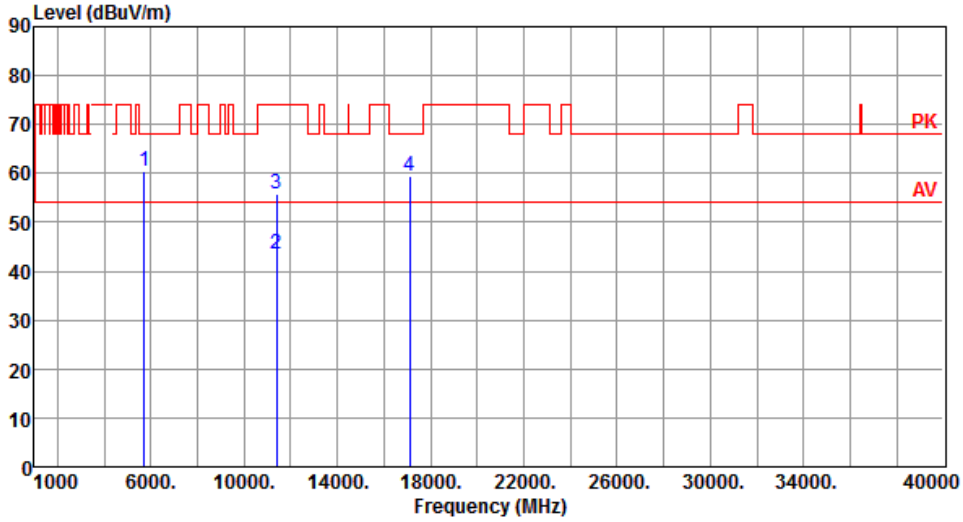
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	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	46.39	54.00	-7.61	40.47	5.92	Average	195	66
2	5460.00	59.42	74.00	-14.58	53.50	5.92	Peak	195	66
3	5470.00	59.82	68.20	-8.38	53.86	5.96	Peak	195	66
4	5725.00	59.90	68.20	-8.30	53.61	6.29	Peak	195	66
5	7440.00	36.66	54.00	-17.34	26.31	10.35	Average	100	156
6	7440.00	49.86	74.00	-24.14	39.51	10.35	Peak	100	156
7	11160.00	45.47	54.00	-8.53	30.21	15.26	Average	100	80
8	11160.00	57.57	74.00	-16.43	42.31	15.26	Peak	100	80
9	16740.00	58.66	68.20	-9.54	41.81	16.85	Peak	100	200

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

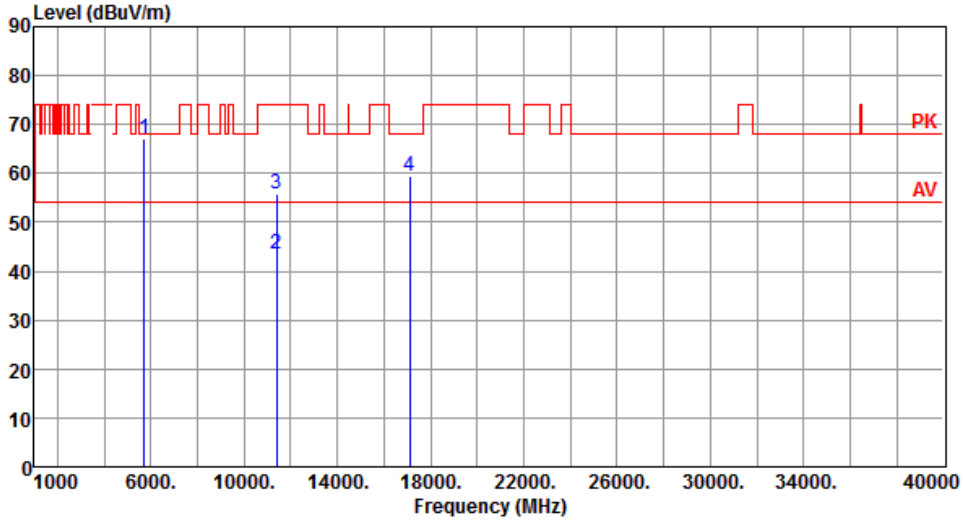
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	60.50	68.20	-7.70	54.21	6.29	Peak	100	77
2	11400.00	43.57	54.00	-10.43	28.24	15.33	Average	100	70
3	11400.00	55.92	74.00	-18.08	40.59	15.33	Peak	100	70
4	17100.00	59.50	68.20	-8.70	42.61	16.89	Peak	100	60

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

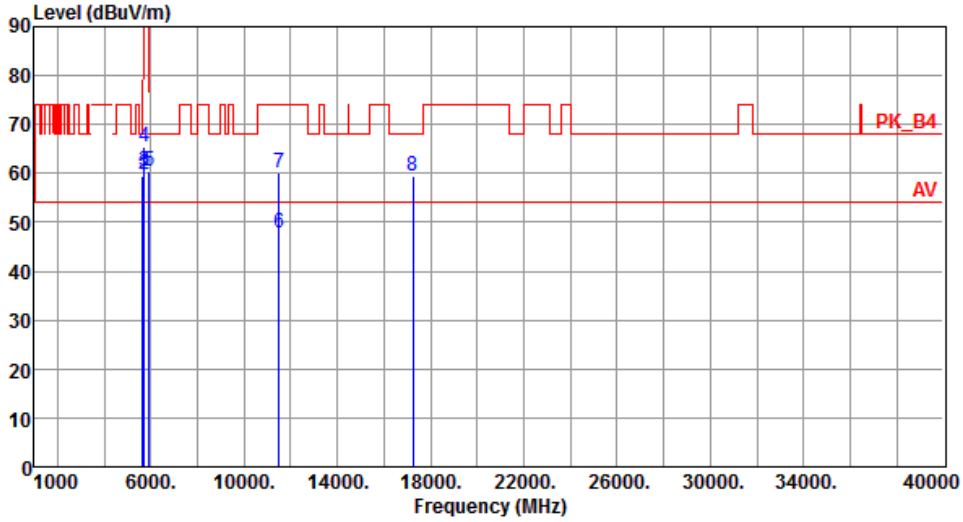
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	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	67.24	68.20	-0.96	60.95	6.29	Peak	225	268
2	11400.00	43.43	54.00	-10.57	28.10	15.33	Average	100	80
3	11400.00	55.94	74.00	-18.06	40.61	15.33	Peak	100	80
4	17100.00	59.36	68.20	-8.84	42.47	16.89	Peak	100	50

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

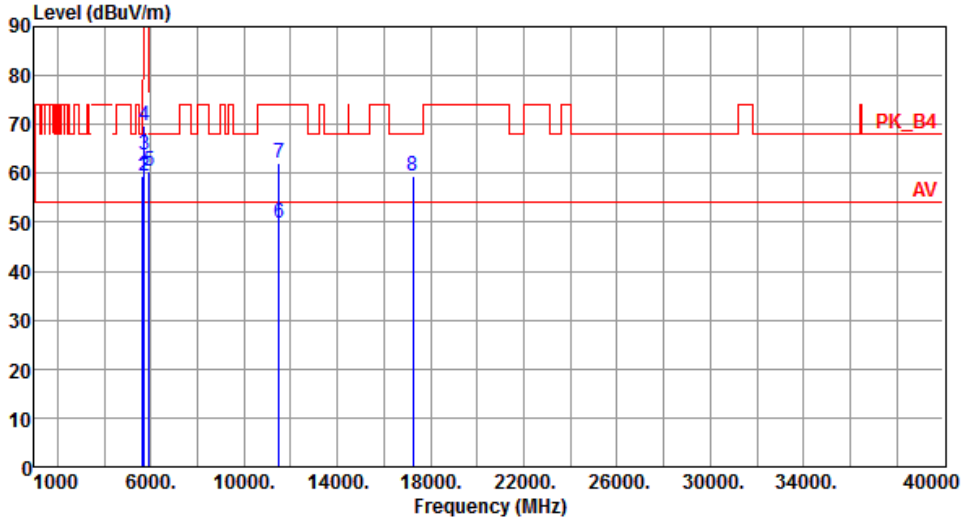
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	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	59.40	68.20	-8.80	53.49	5.91	Peak	100	81
2	5700.00	59.79	105.20	-45.41	53.56	6.23	Peak	100	81
3	5720.00	60.45	110.80	-50.35	54.17	6.28	Peak	100	81
4	5725.00	65.43	122.20	-56.77	59.14	6.29	Peak	100	81
5	5925.00	60.43	68.20	-7.77	53.61	6.82	Peak	100	81
6	11490.00	47.97	54.00	-6.03	32.52	15.45	Average	205	60
7	11490.00	60.05	74.00	-13.95	44.60	15.45	Peak	205	60
8	17235.00	59.29	68.20	-8.91	42.31	16.98	Peak	100	60

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

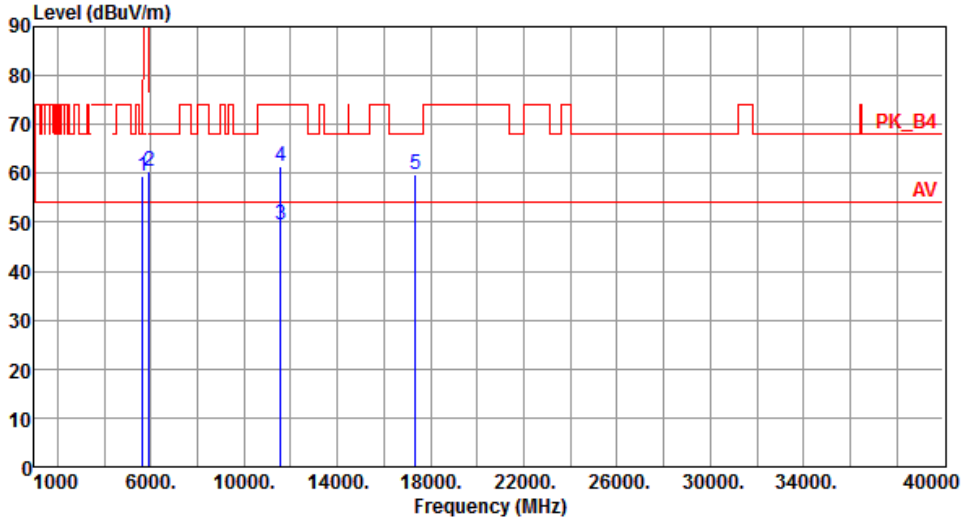
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	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	59.52	68.20	-8.68	53.61	5.91	Peak	202	221
2	5700.00	59.60	105.20	-45.60	53.37	6.23	Peak	202	221
3	5720.00	63.92	110.80	-46.88	57.64	6.28	Peak	202	221
4	5725.00	69.83	122.20	-52.37	63.54	6.29	Peak	202	221
5	5925.00	60.29	68.20	-7.91	53.47	6.82	Peak	202	221
6	11490.00	49.95	54.00	-4.05	34.50	15.45	Average	202	87
7	11490.00	62.25	74.00	-11.75	46.80	15.45	Peak	202	87
8	17235.00	59.51	68.20	-8.69	42.53	16.98	Peak	100	70

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

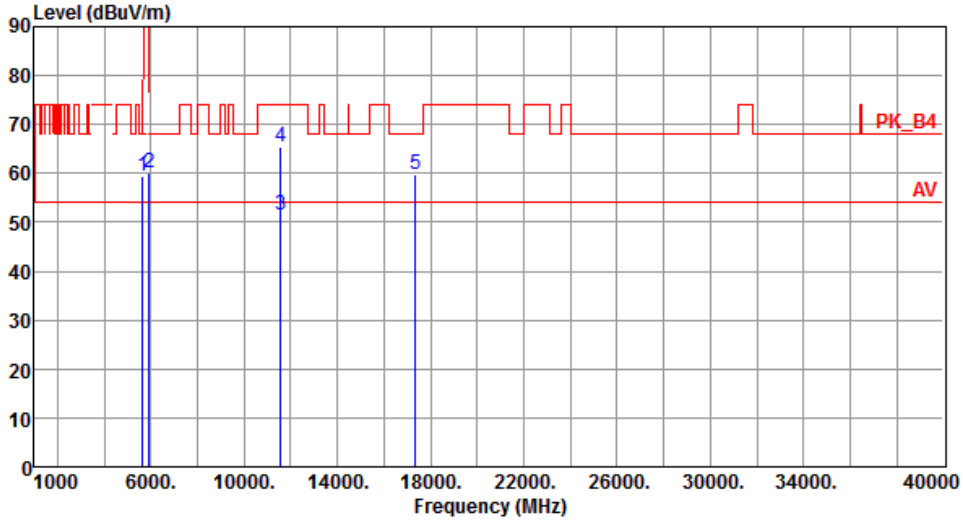
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	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	59.40	68.20	-8.80	53.49	5.91	Peak	100	72
2	5925.00	60.33	68.20	-7.87	53.51	6.82	Peak	100	72
3	11570.00	49.61	54.00	-4.39	34.31	15.30	Average	205	65
4	11570.00	61.43	74.00	-12.57	46.13	15.30	Peak	205	65
5	17355.00	59.92	68.20	-8.28	42.31	17.61	Peak	100	20

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

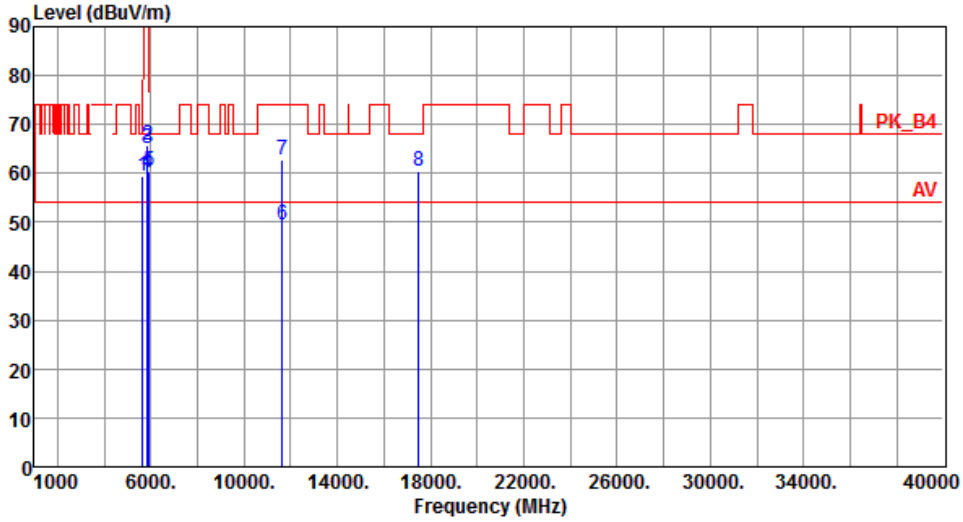
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	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	59.52	68.20	-8.68	53.61	5.91	Peak	193	66
2	5925.00	60.27	68.20	-7.93	53.45	6.82	Peak	193	66
3	11570.00	51.51	54.00	-2.49	36.21	15.30	Average	181	90
4	11570.00	65.45	74.00	-8.55	50.15	15.30	Peak	181	90
5	17355.00	59.83	68.20	-8.37	42.22	17.61	Peak	100	60

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

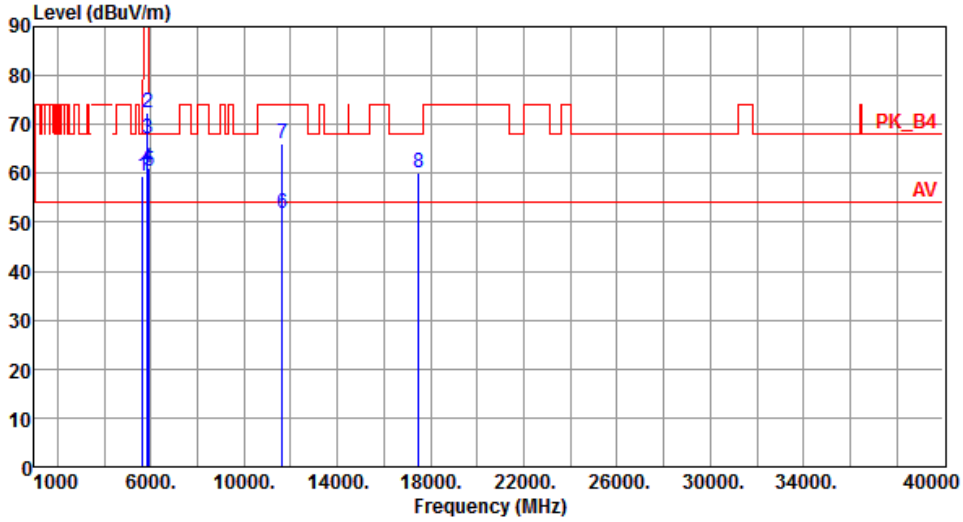
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.40	68.20	-8.80	53.49	5.91	Peak	100	76
2	5850.00	65.91	122.20	-56.29	59.24	6.67	Peak	100	76
3	5855.00	65.04	110.80	-45.76	58.36	6.68	Peak	100	76
4	5875.00	60.26	105.20	-44.94	53.54	6.72	Peak	100	76
5	5925.00	60.33	68.20	-7.87	53.51	6.82	Peak	100	76
6	11650.00	49.52	54.00	-4.48	34.46	15.06	Average	199	61
7	11650.00	62.67	74.00	-11.33	47.61	15.06	Peak	199	61
8	17475.00	60.54	68.20	-7.66	42.31	18.23	Peak	100	60

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

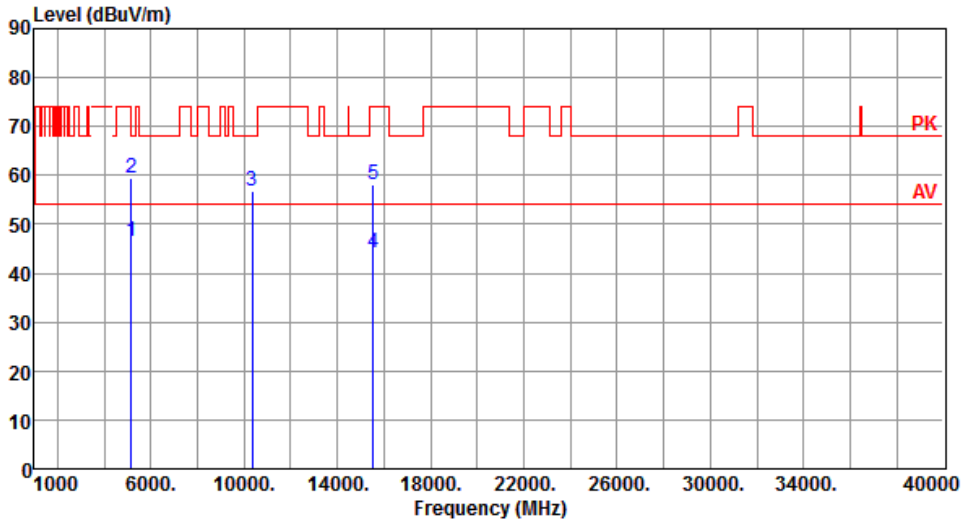


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.42	68.20	-8.78	53.51	5.91	Peak	200	224
2	5850.00	72.48	122.20	-49.72	65.81	6.67	Peak	200	224
3	5855.00	67.19	110.80	-43.61	60.51	6.68	Peak	200	224
4	5875.00	60.98	105.20	-44.22	54.26	6.72	Peak	200	224
5	5925.00	60.43	68.20	-7.77	53.61	6.82	Peak	200	224
6	11650.00	51.71	54.00	-2.29	36.65	15.06	Average	210	86
7	11650.00	65.92	74.00	-8.08	50.86	15.06	Peak	210	86
8	17475.00	60.09	68.20	-8.11	41.86	18.23	Peak	100	50

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

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

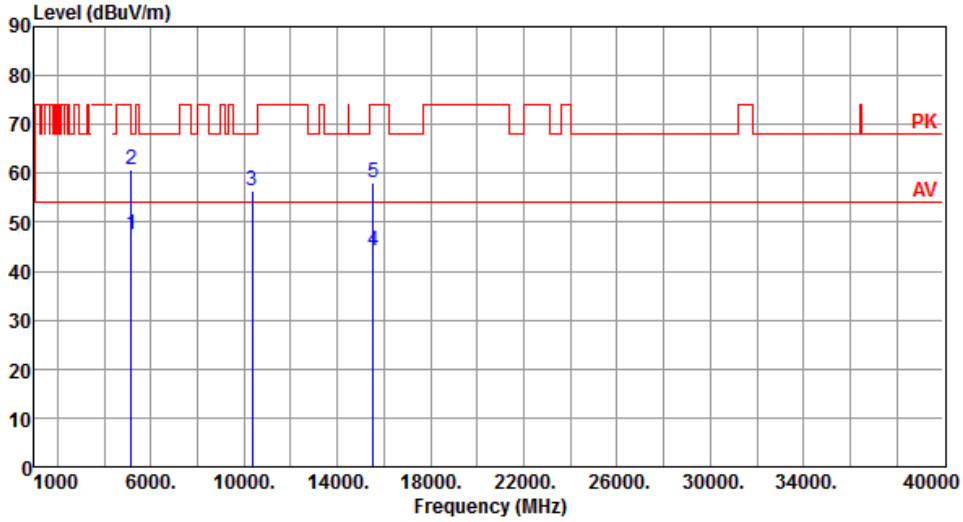
Modulation	HT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.56	54.00	-7.44	40.61	5.95	Average	100	75
2	5150.00	59.49	74.00	-14.51	53.54	5.95	Peak	100	75
3	10360.00	56.71	68.20	-11.49	41.61	15.10	Peak	100	80
4	15540.00	44.13	54.00	-9.87	28.48	15.65	Average	100	40
5	15540.00	58.16	74.00	-15.84	42.51	15.65	Peak	100	40

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

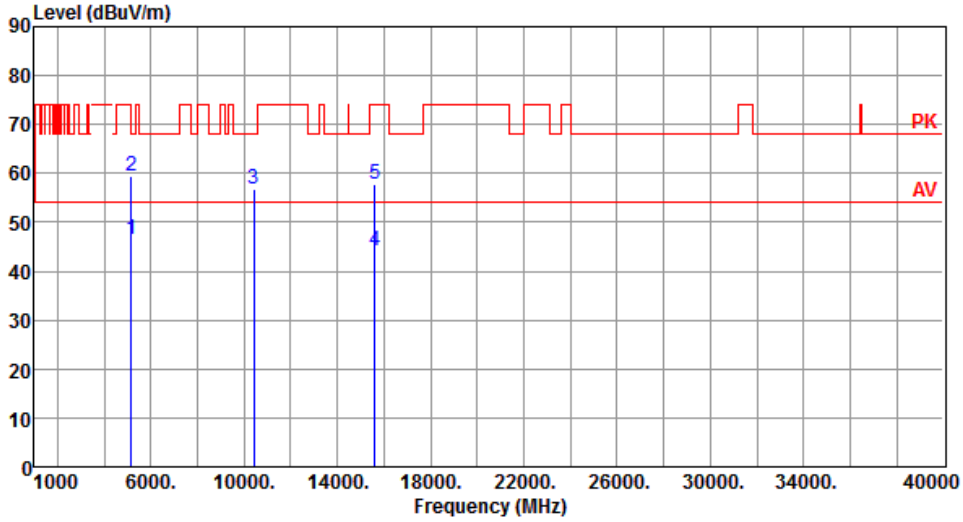
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.51	54.00	-6.49	41.56	5.95	Average	100	212
2	5150.00	60.76	74.00	-13.24	54.81	5.95	Peak	100	212
3	10360.00	56.53	68.20	-11.67	41.43	15.10	Peak	100	85
4	15540.00	44.19	54.00	-9.81	28.54	15.65	Average	100	20
5	15540.00	58.26	74.00	-15.74	42.61	15.65	Peak	100	20

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

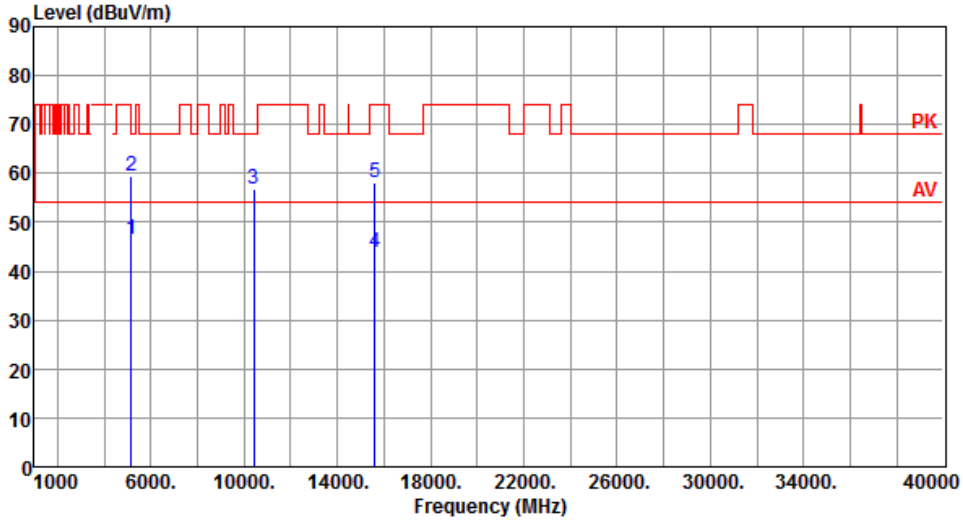
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.56	54.00	-7.44	40.61	5.95	Average	100	74
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	100	74
3	10400.00	56.79	68.20	-11.41	41.46	15.33	Peak	100	60
4	15600.00	44.10	54.00	-9.90	28.61	15.49	Average	100	80
5	15600.00	57.95	74.00	-16.05	42.46	15.49	Peak	100	80

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

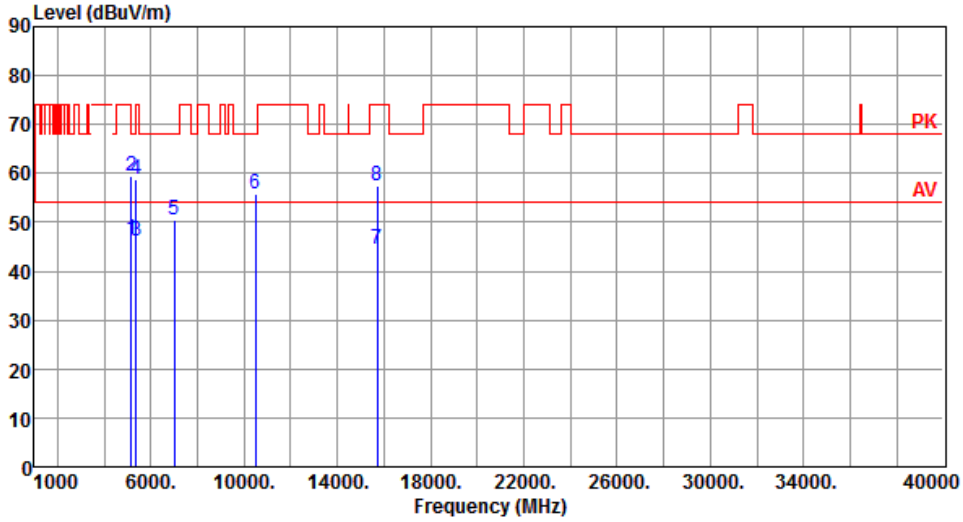
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.34	54.00	-7.66	40.39	5.95	Average	195	65
2	5150.00	59.53	74.00	-14.47	53.58	5.95	Peak	195	65
3	10400.00	56.89	68.20	-11.31	41.56	15.33	Peak	100	50
4	15600.00	44.00	54.00	-10.00	28.51	15.49	Average	100	75
5	15600.00	58.00	74.00	-16.00	42.51	15.49	Peak	100	75

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

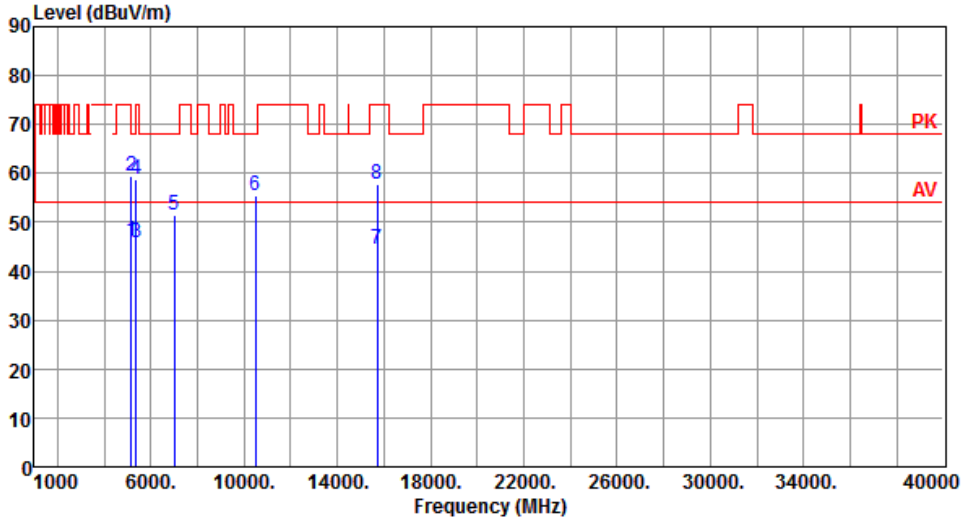
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.41	54.00	-7.59	40.46	5.95	Average	100	69
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	100	69
3	5350.00	46.01	54.00	-7.99	40.61	5.40	Average	100	69
4	5350.00	58.91	74.00	-15.09	53.51	5.40	Peak	100	69
5	6986.66	50.64	68.20	-17.56	41.35	9.29	Peak	100	152
6	10480.00	55.78	68.20	-12.42	40.47	15.31	Peak	100	85
7	15720.00	44.41	54.00	-9.59	29.18	15.23	Average	100	70
8	15720.00	57.54	74.00	-16.46	42.31	15.23	Peak	100	70

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

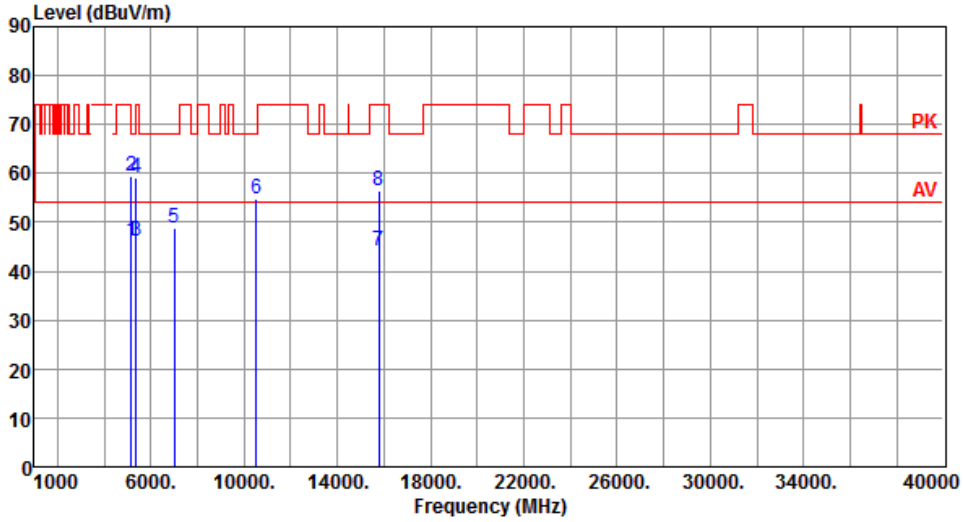
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.26	54.00	-7.74	40.31	5.95	Average	195	74
2	5150.00	59.54	74.00	-14.46	53.59	5.95	Peak	195	74
3	5350.00	45.71	54.00	-8.29	40.31	5.40	Average	195	74
4	5350.00	58.88	74.00	-15.12	53.48	5.40	Peak	195	74
5	6986.66	51.60	68.20	-16.60	42.31	9.29	Peak	100	142
6	10480.00	55.62	68.20	-12.58	40.31	15.31	Peak	100	60
7	15720.00	44.54	54.00	-9.46	29.31	15.23	Average	100	50
8	15720.00	57.79	74.00	-16.21	42.56	15.23	Peak	100	50

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

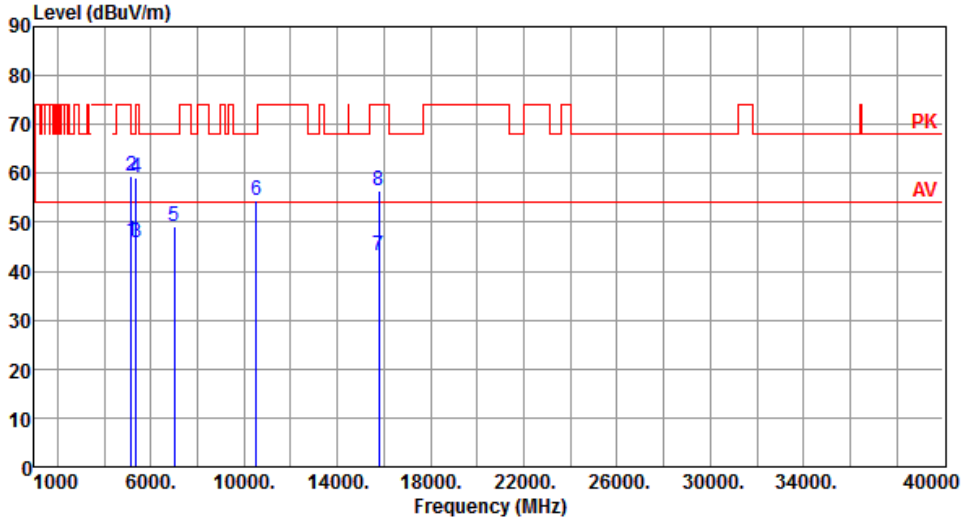
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.26	54.00	-7.74	40.31	5.95	Average	100	68
2	5150.00	59.54	74.00	-14.46	53.59	5.95	Peak	100	68
3	5350.00	46.01	54.00	-7.99	40.61	5.40	Average	100	68
4	5350.00	59.04	74.00	-14.96	53.64	5.40	Peak	100	68
5	7013.33	48.93	68.20	-19.27	39.55	9.38	Peak	100	149
6	10520.00	54.67	68.20	-13.53	39.34	15.33	Peak	100	50
7	15780.00	44.13	54.00	-9.87	29.18	14.95	Average	100	130
8	15780.00	56.56	74.00	-17.44	41.61	14.95	Peak	100	130

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

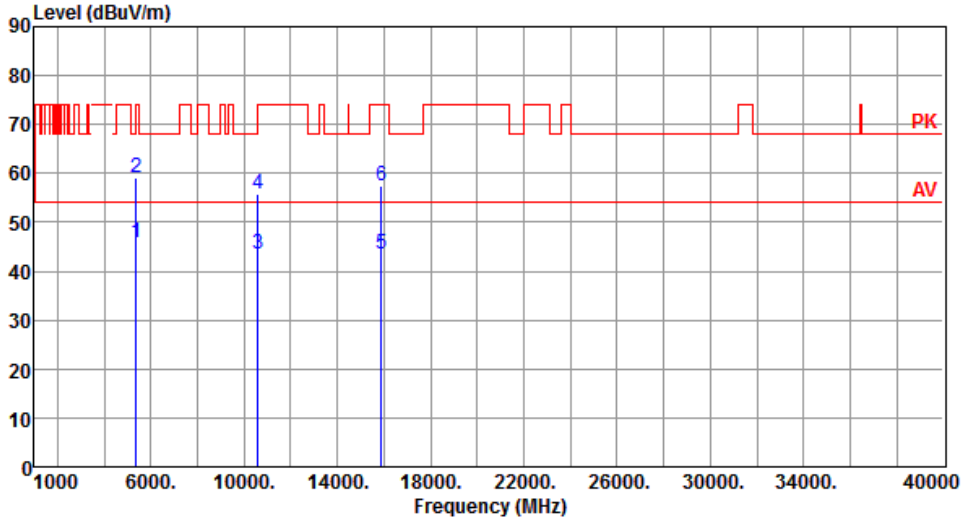
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	46.23	54.00	-7.77	40.28	5.95	Average	188	66
2	5150.00	59.33	74.00	-14.67	53.38	5.95	Peak	188	66
3	5350.00	45.71	54.00	-8.29	40.31	5.40	Average	188	66
4	5350.00	58.97	74.00	-15.03	53.57	5.40	Peak	188	66
5	7013.33	48.99	68.20	-19.21	39.61	9.38	Peak	100	134
6	10520.00	54.48	68.20	-13.72	39.15	15.33	Peak	100	150
7	15780.00	43.08	54.00	-10.92	28.13	14.95	Average	100	100
8	15780.00	56.34	74.00	-17.66	41.39	14.95	Peak	100	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).

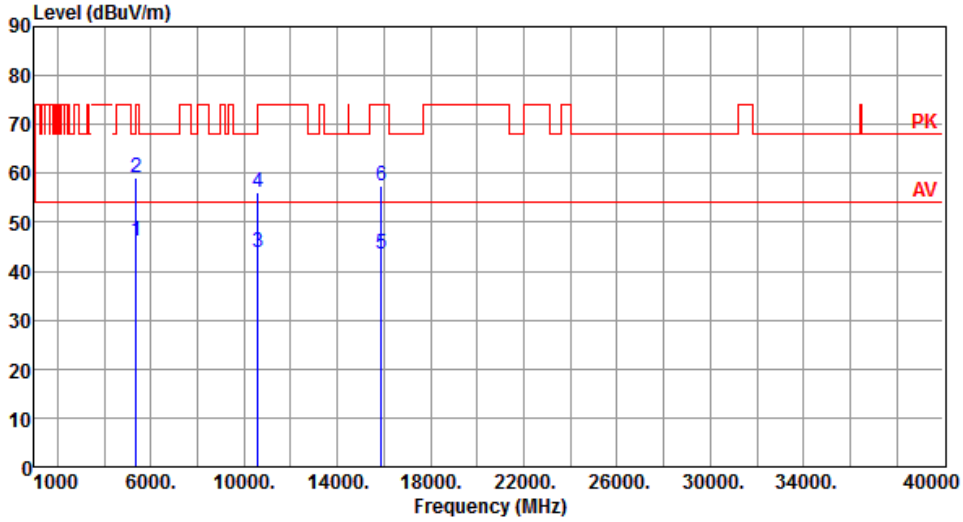
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.86	54.00	-8.14	40.46	5.40	Average	100	75
2	5350.00	59.01	74.00	-14.99	53.61	5.40	Peak	100	75
3	10600.00	43.65	54.00	-10.35	28.24	15.41	Average	100	30
4	10600.00	55.91	74.00	-18.09	40.50	15.41	Peak	100	30
5	15900.00	43.46	54.00	-10.54	28.57	14.89	Average	100	70
6	15900.00	57.48	74.00	-16.52	42.59	14.89	Peak	100	70

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

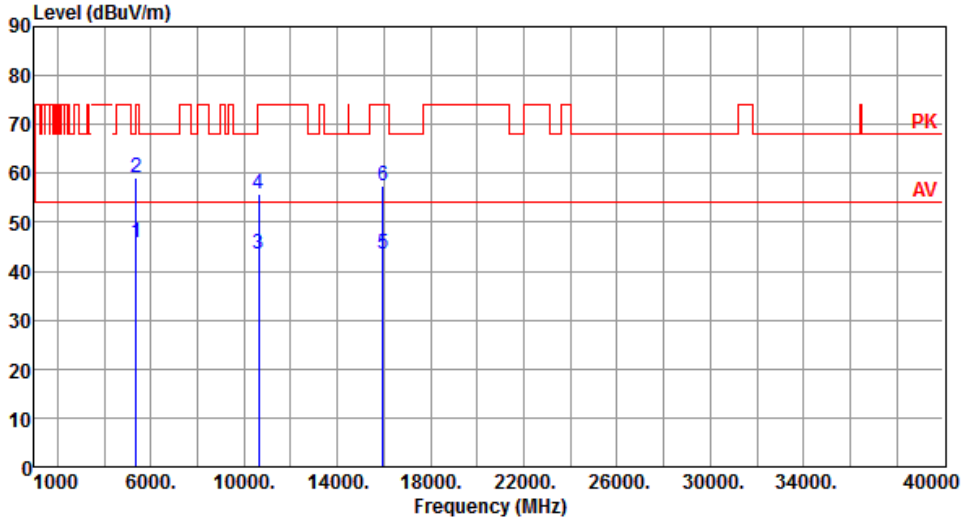
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.01	54.00	-7.99	40.61	5.40	Average	192	67
2	5350.00	58.99	74.00	-15.01	53.59	5.40	Peak	192	67
3	10600.00	43.71	54.00	-10.29	28.30	15.41	Average	100	20
4	10600.00	56.01	74.00	-17.99	40.60	15.41	Peak	100	20
5	15900.00	43.38	54.00	-10.62	28.49	14.89	Average	100	40
6	15900.00	57.40	74.00	-16.60	42.51	14.89	Peak	100	40

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

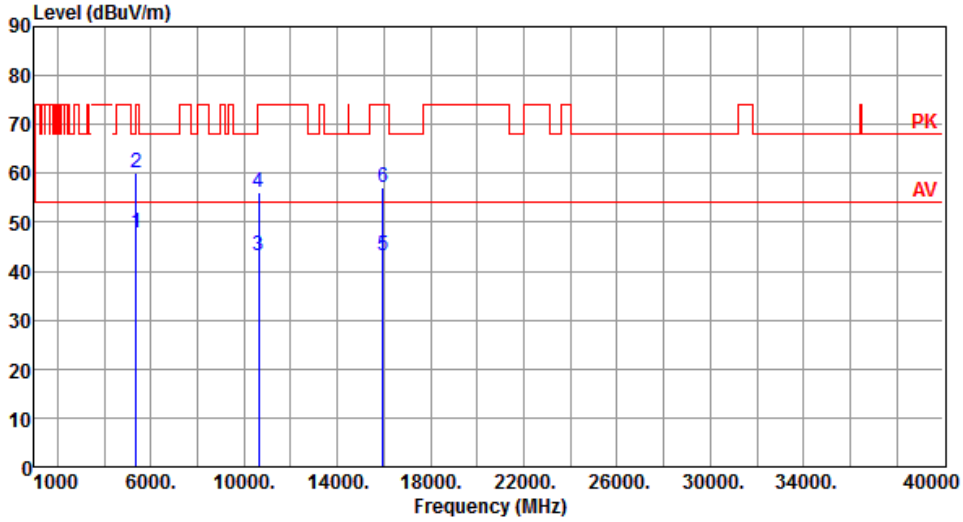
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.93	54.00	-8.07	40.53	5.40	Average	105	75
2	5350.00	59.01	74.00	-14.99	53.61	5.40	Peak	105	75
3	10640.00	43.57	54.00	-10.43	28.21	15.36	Average	100	60
4	10640.00	55.94	74.00	-18.06	40.58	15.36	Peak	100	60
5	15960.00	43.52	54.00	-10.48	28.61	14.91	Average	100	55
6	15960.00	57.32	74.00	-16.68	42.41	14.91	Peak	100	55

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

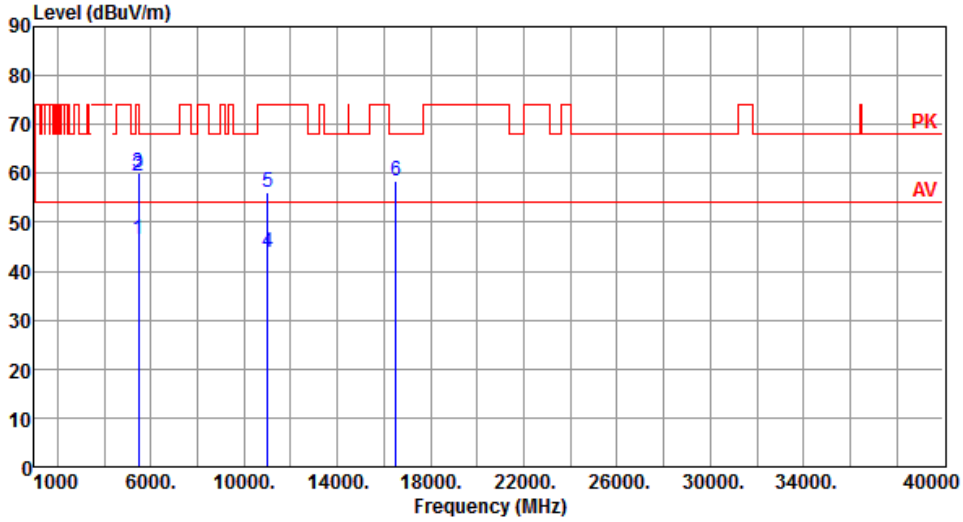
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.71	54.00	-6.29	42.31	5.40	Average	102	219
2	5350.00	60.05	74.00	-13.95	54.65	5.40	Peak	102	219
3	10640.00	43.27	54.00	-10.73	27.91	15.36	Average	100	30
4	10640.00	56.17	74.00	-17.83	40.81	15.36	Peak	100	30
5	15960.00	43.15	54.00	-10.85	28.24	14.91	Average	100	55
6	15960.00	57.22	74.00	-16.78	42.31	14.91	Peak	100	55

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

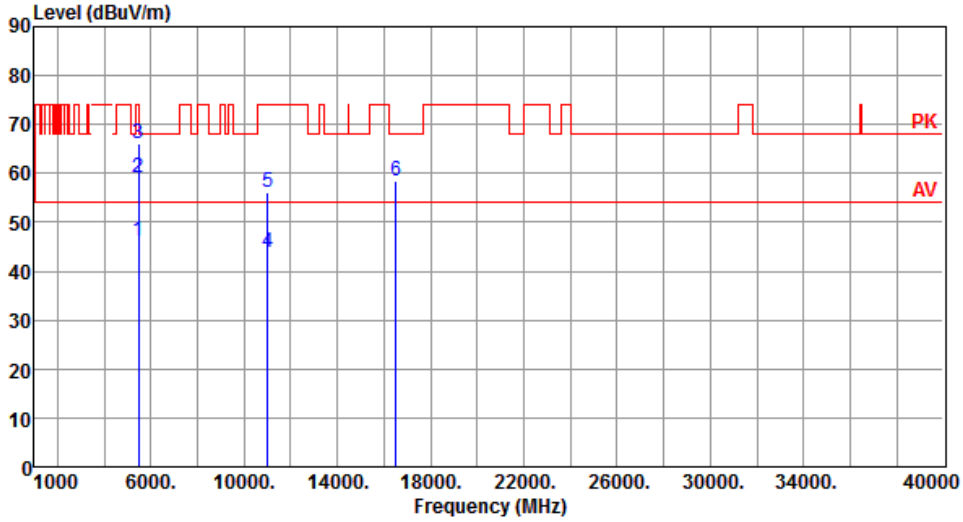
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	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	40.60	5.92	Average	100	82
2	5460.00	59.52	74.00	-14.48	53.60	5.92	Peak	100	82
3	5470.00	60.27	68.20	-7.93	54.31	5.96	Peak	100	82
4	11000.00	43.89	54.00	-10.11	28.31	15.58	Average	100	70
5	11000.00	56.21	74.00	-17.79	40.63	15.58	Peak	100	100
6	16500.00	58.44	68.20	-9.76	42.61	15.83	Peak	100	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).

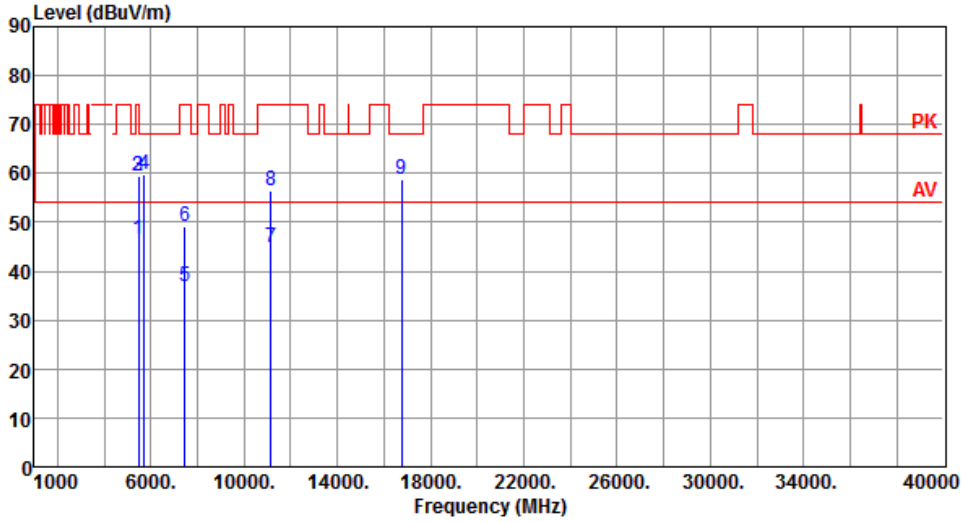
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.24	54.00	-7.76	40.32	5.92	Average	210	234
2	5460.00	59.10	74.00	-14.90	53.18	5.92	Peak	210	234
3	5470.00	66.11	68.20	-2.09	60.15	5.96	Peak	210	234
4	11000.00	43.87	54.00	-10.13	28.29	15.58	Average	100	80
5	11000.00	56.14	74.00	-17.86	40.56	15.58	Peak	100	80
6	16500.00	58.37	68.20	-9.83	42.54	15.83	Peak	100	55

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

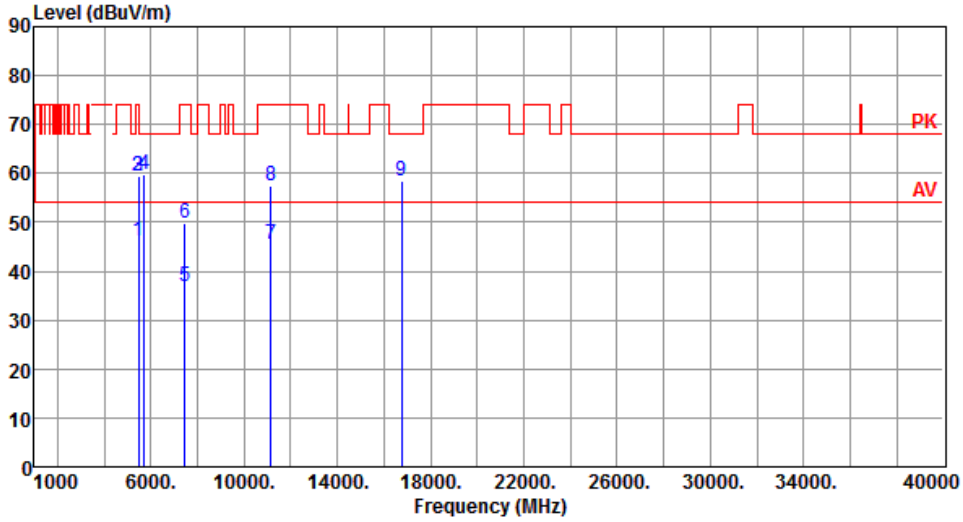
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.37	54.00	-7.63	40.45	5.92	Average	100	82
2	5460.00	59.49	74.00	-14.51	53.57	5.92	Peak	100	82
3	5470.00	59.50	68.20	-8.70	53.54	5.96	Peak	100	82
4	5725.00	59.83	68.20	-8.37	53.54	6.29	Peak	100	82
5	7440.00	36.73	54.00	-17.27	26.38	10.35	Average	100	160
6	7440.00	49.09	74.00	-24.91	38.74	10.35	Peak	100	160
7	11160.00	44.80	54.00	-9.20	29.54	15.26	Average	100	130
8	11160.00	56.54	74.00	-17.46	41.28	15.26	Peak	100	130
9	16740.00	58.62	68.20	-9.58	41.77	16.85	Peak	100	160

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

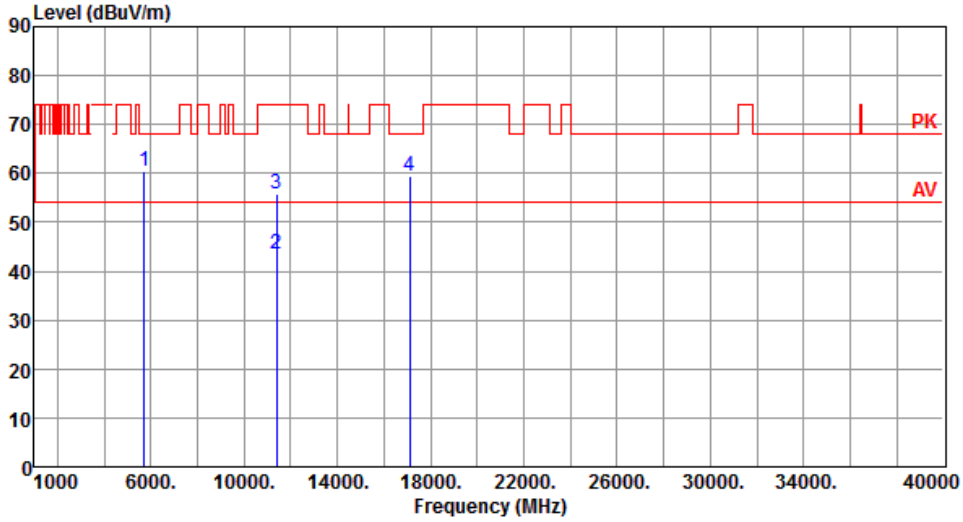
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.30	54.00	-7.70	40.38	5.92	Average	182	55
2	5460.00	59.52	74.00	-14.48	53.60	5.92	Peak	182	55
3	5470.00	59.55	68.20	-8.65	53.59	5.96	Peak	182	55
4	5725.00	59.90	68.20	-8.30	53.61	6.29	Peak	182	55
5	7440.00	36.70	54.00	-17.30	26.35	10.35	Average	100	140
6	7440.00	49.81	74.00	-24.19	39.46	10.35	Peak	100	140
7	11160.00	45.48	54.00	-8.52	30.22	15.26	Average	100	70
8	11160.00	57.57	74.00	-16.43	42.31	15.26	Peak	100	70
9	16740.00	58.61	68.20	-9.59	41.76	16.85	Peak	100	200

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

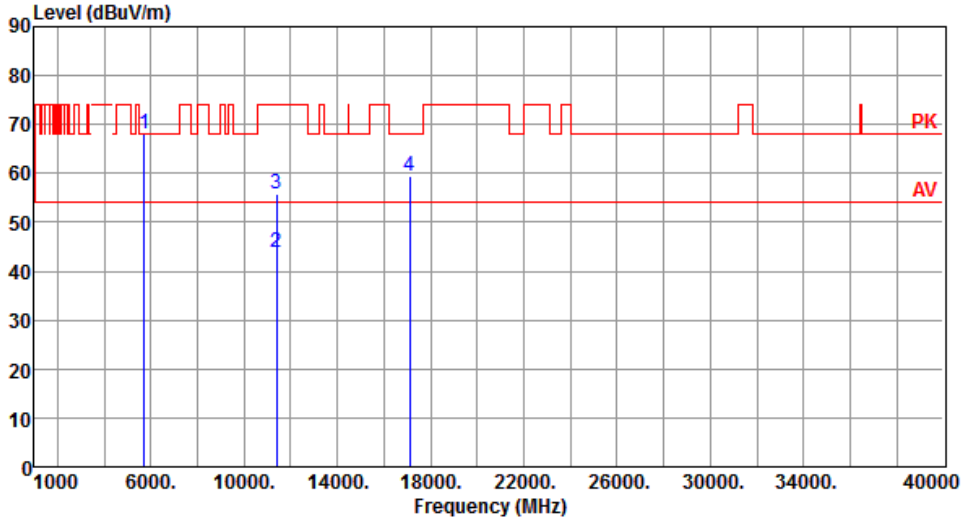
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	60.60	68.20	-7.60	54.31	6.29	Peak	105	70
2	11400.00	43.54	54.00	-10.46	28.21	15.33	Average	100	70
3	11400.00	55.94	74.00	-18.06	40.61	15.33	Peak	100	70
4	17100.00	59.36	68.20	-8.84	42.47	16.89	Peak	100	70

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

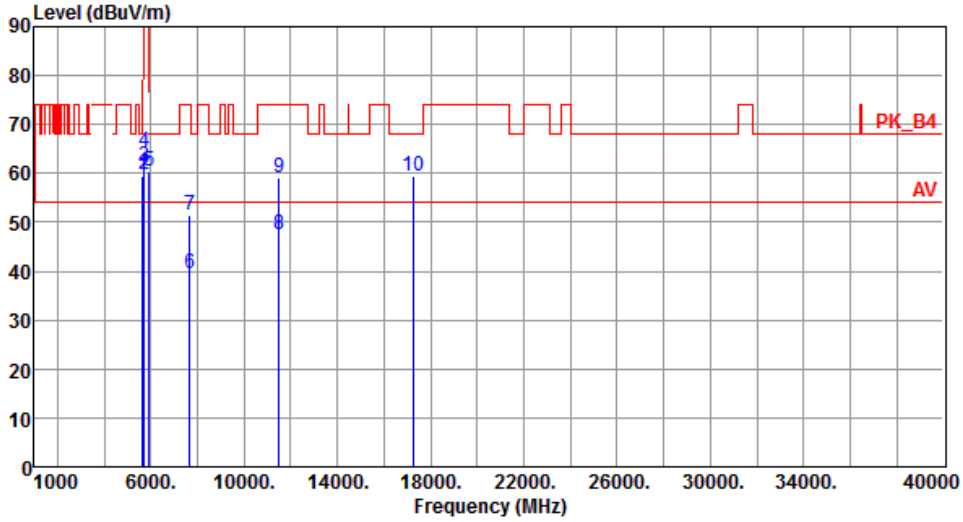
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	67.94	68.20	-0.26	61.65	6.29	Peak	221	251
2	11400.00	43.84	54.00	-10.16	28.51	15.33	Average	100	55
3	11400.00	55.92	74.00	-18.08	40.59	15.33	Peak	100	55
4	17100.00	59.50	68.20	-8.70	42.61	16.89	Peak	100	90

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

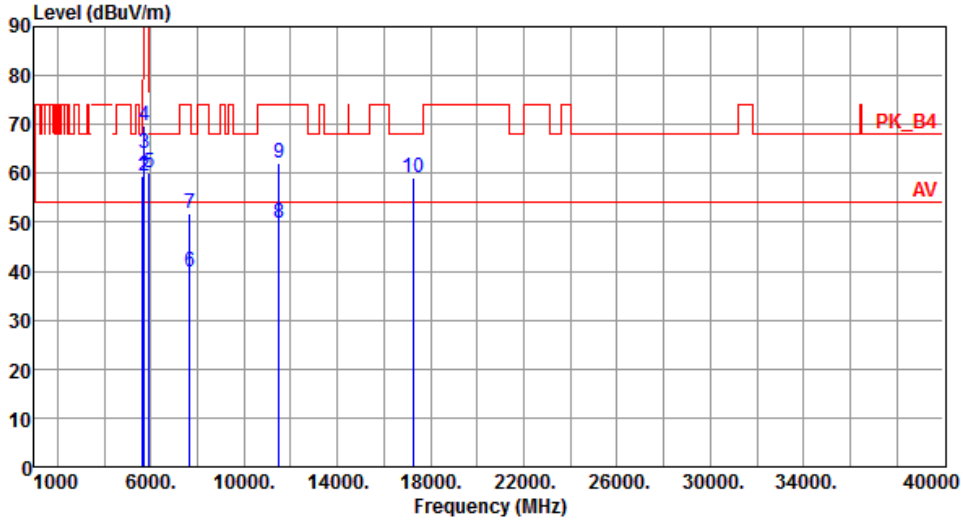
Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	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	59.52	68.20	-8.68	53.61	5.91	Peak	103	77
2	5700.00	59.62	105.20	-45.58	53.39	6.23	Peak	103	77
3	5720.00	61.41	110.80	-49.39	55.13	6.28	Peak	103	77
4	5725.00	64.46	122.20	-57.74	58.17	6.29	Peak	103	77
5	5925.00	60.30	68.20	-7.90	53.48	6.82	Peak	103	77
6	7660.00	39.55	54.00	-14.45	29.21	10.34	Average	100	150
7	7660.00	51.64	74.00	-22.36	41.30	10.34	Peak	100	150
8	11490.00	47.64	54.00	-6.36	32.19	15.45	Average	205	60
9	11490.00	59.07	74.00	-14.93	43.62	15.45	Peak	205	60
10	17235.00	59.44	68.20	-8.76	42.46	16.98	Peak	100	40

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

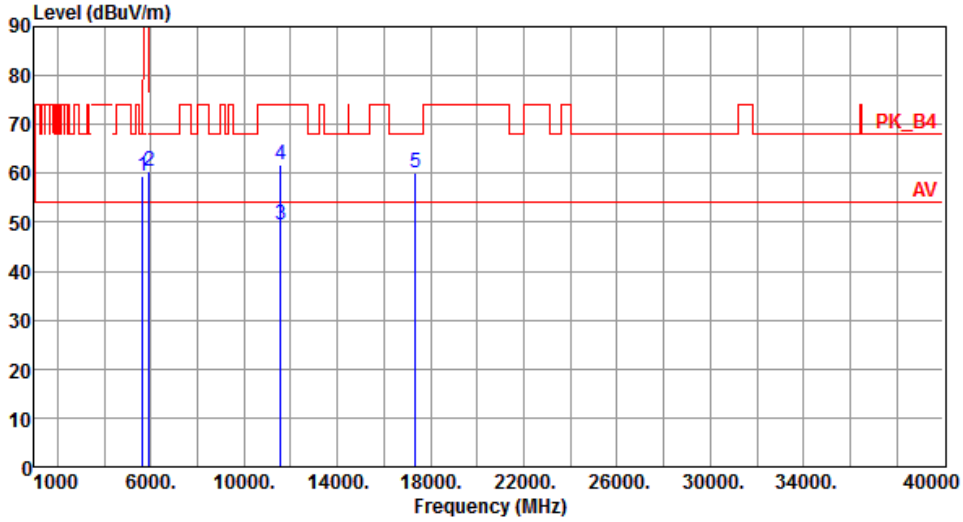
Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	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	59.50	68.20	-8.70	53.59	5.91	Peak	205	223
2	5700.00	59.52	105.20	-45.68	53.29	6.23	Peak	205	223
3	5720.00	63.96	110.80	-46.84	57.68	6.28	Peak	205	223
4	5725.00	69.80	122.20	-52.40	63.51	6.29	Peak	205	223
5	5925.00	60.13	68.20	-8.07	53.31	6.82	Peak	205	223
6	7660.00	39.81	54.00	-14.19	29.47	10.34	Average	100	134
7	7660.00	51.93	74.00	-22.07	41.59	10.34	Peak	100	134
8	11490.00	49.77	54.00	-4.23	34.32	15.45	Average	186	93
9	11490.00	62.12	74.00	-11.88	46.67	15.45	Peak	186	93
10	17235.00	59.13	68.20	-9.07	42.15	16.98	Peak	100	60

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

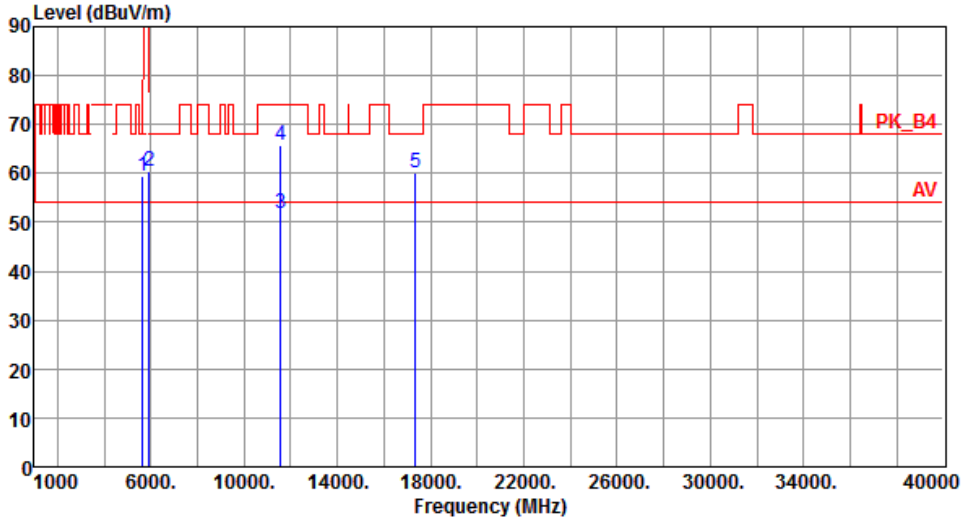
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	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	59.49	68.20	-8.71	53.58	5.91	Peak	100	70
2	5925.00	60.43	68.20	-7.77	53.61	6.82	Peak	100	70
3	11570.00	49.55	54.00	-4.45	34.25	15.30	Average	202	55
4	11570.00	61.91	74.00	-12.09	46.61	15.30	Peak	202	55
5	17355.00	60.22	68.20	-7.98	42.61	17.61	Peak	100	30

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

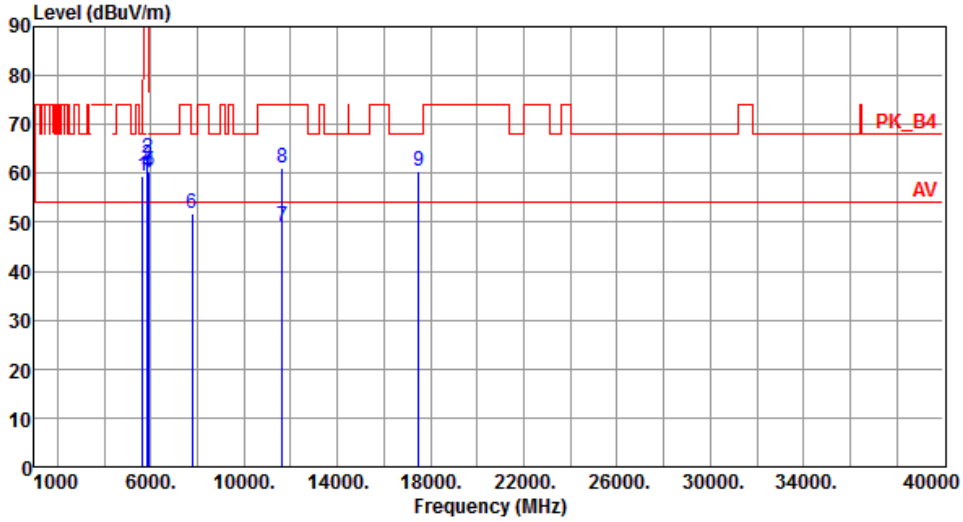
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	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	59.50	68.20	-8.70	53.59	5.91	Peak	196	65
2	5925.00	60.36	68.20	-7.84	53.54	6.82	Peak	196	65
3	11570.00	51.79	54.00	-2.21	36.49	15.30	Average	200	85
4	11570.00	65.75	74.00	-8.25	50.45	15.30	Peak	200	85
5	17355.00	60.15	68.20	-8.05	42.54	17.61	Peak	100	55

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

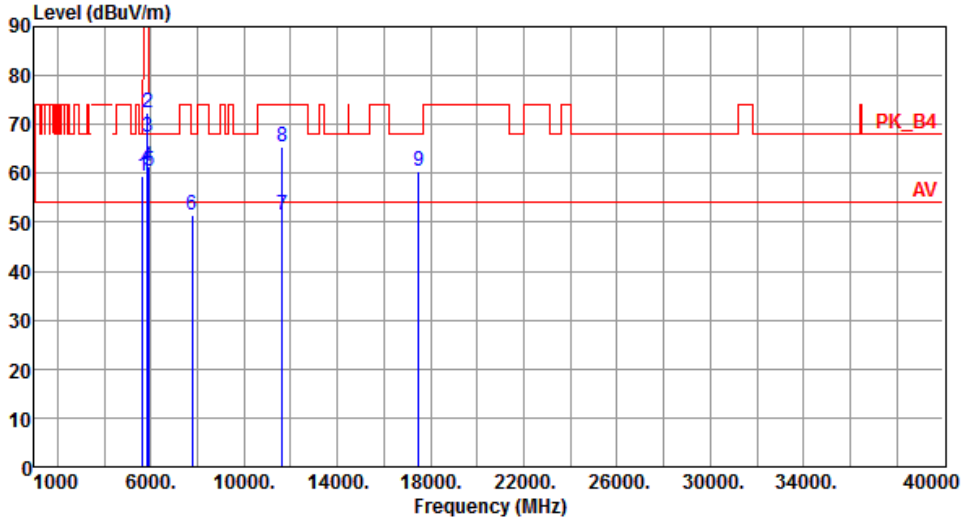
Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.52	68.20	-8.68	53.61	5.91	Peak	100	68
2	5850.00	62.98	122.20	-59.22	56.31	6.67	Peak	100	68
3	5855.00	61.78	110.80	-49.02	55.10	6.68	Peak	100	68
4	5875.00	60.18	105.20	-45.02	53.46	6.72	Peak	100	68
5	5925.00	60.51	68.20	-7.69	53.69	6.82	Peak	100	68
6	7766.66	51.86	68.20	-16.34	41.45	10.41	Peak	100	138
7	11650.00	49.18	54.00	-4.82	34.12	15.06	Average	202	60
8	11650.00	61.27	74.00	-12.73	46.21	15.06	Peak	202	60
9	17475.00	60.33	68.20	-7.87	42.10	18.23	Peak	100	55

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

Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Vertical		



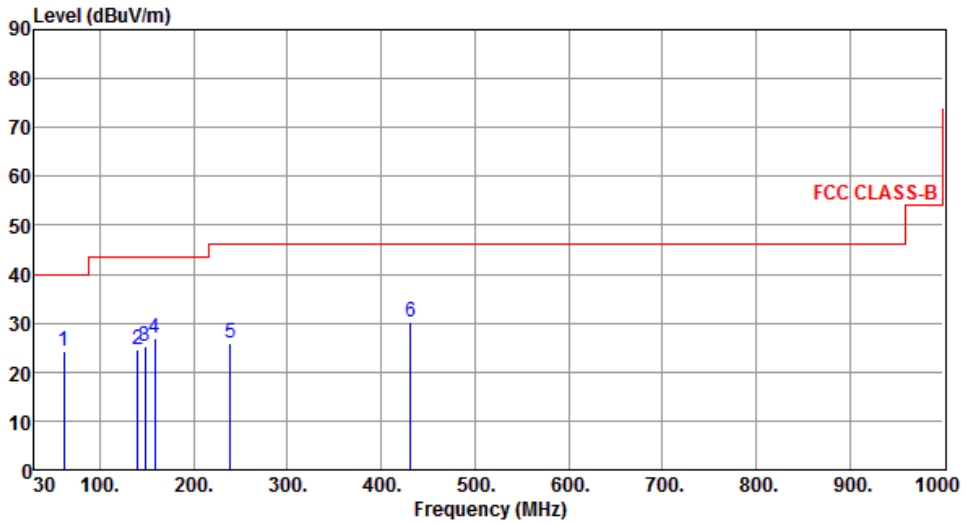
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.39	68.20	-8.81	53.48	5.91	Peak	201	225
2	5850.00	72.46	122.20	-49.74	65.79	6.67	Peak	201	225
3	5855.00	67.30	110.80	-43.50	60.62	6.68	Peak	201	225
4	5875.00	61.57	105.20	-43.63	54.85	6.72	Peak	201	225
5	5925.00	60.31	68.20	-7.89	53.49	6.82	Peak	201	225
6	7766.66	51.62	68.20	-16.58	41.21	10.41	Peak	100	135
7	11650.00	51.55	54.00	-2.45	36.49	15.06	Average	182	85
8	11650.00	65.55	74.00	-8.45	50.49	15.06	Peak	182	85
9	17475.00	60.44	68.20	-7.76	42.21	18.23	Peak	100	25

Note 1: Emission Level (dBuV/m) = SA Reading (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 : PIFA antenna (Antenna No.6) , Y-plane

3.5.7 Transmitter Radiated Unwanted Emissions (Below 1GHz)

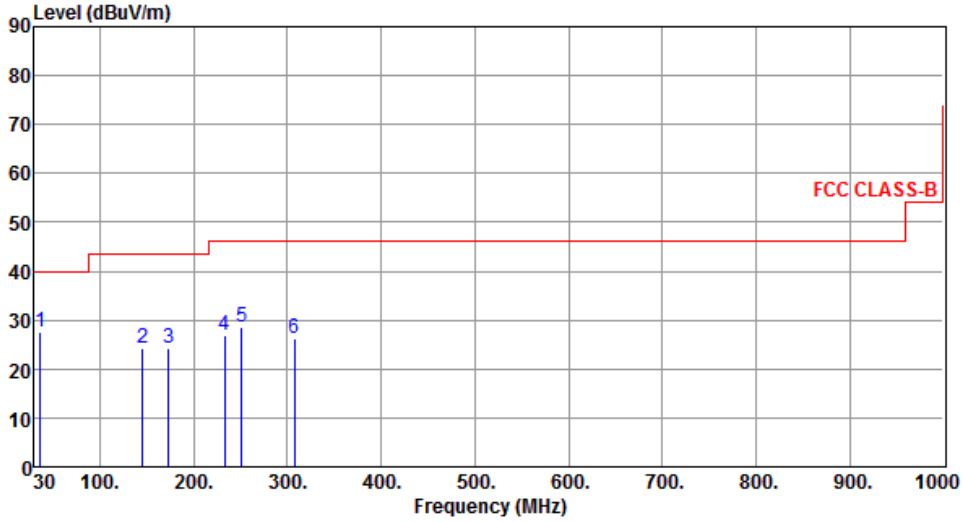
Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	61.12	24.18	40.00	-15.82	33.65	-9.47	Peak	---	---
2	140.58	24.66	43.50	-18.84	33.94	-9.28	Peak	---	---
3	148.51	25.31	43.50	-18.19	34.14	-8.83	Peak	---	---
4	158.18	26.84	43.50	-16.66	35.53	-8.69	Peak	---	---
5	239.52	25.87	46.00	-20.13	36.32	-10.45	Peak	---	---
6	431.61	30.16	46.00	-15.84	35.00	-4.84	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.

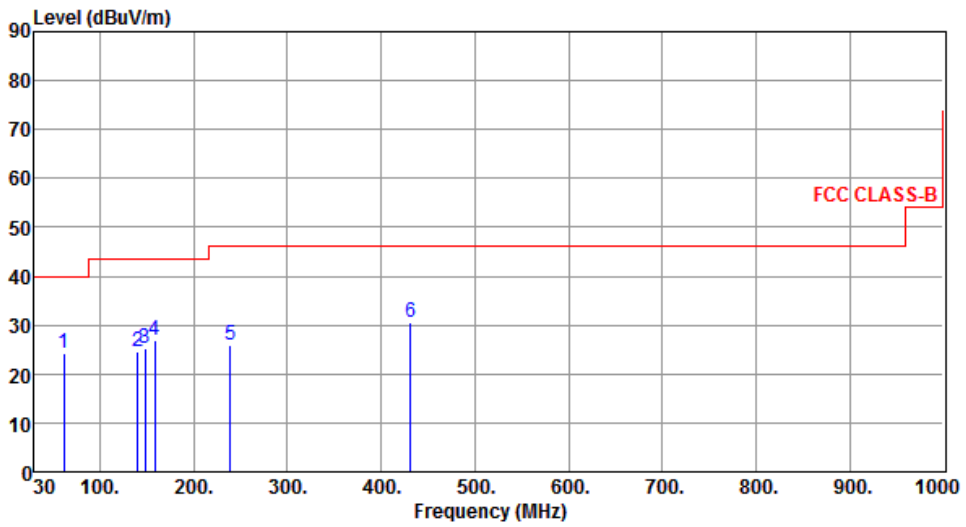
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	36.65	27.41	40.00	-12.59	37.23	-9.82	Peak	---	---
2	145.51	24.26	43.50	-19.24	33.25	-8.99	Peak	---	---
3	173.49	24.28	43.50	-19.22	33.81	-9.53	Peak	---	---
4	232.66	26.74	46.00	-19.26	37.94	-11.20	Peak	---	---
5	251.21	28.46	46.00	-17.54	38.53	-10.07	Peak	---	---
6	307.38	26.31	46.00	-19.69	34.55	-8.24	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.

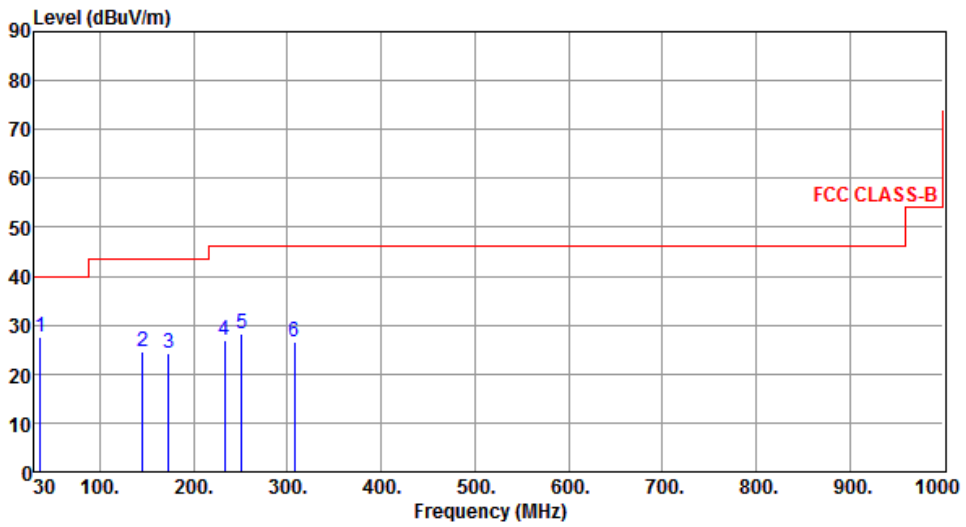
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	61.12	24.31	40.00	-15.69	33.78	-9.47	Peak	---	---
2	140.55	24.56	43.50	-18.94	33.85	-9.29	Peak	---	---
3	148.33	25.12	43.50	-18.38	33.95	-8.83	Peak	---	---
4	158.19	26.79	43.50	-16.71	35.48	-8.69	Peak	---	---
5	239.52	25.76	46.00	-20.24	36.21	-10.45	Peak	---	---
6	431.62	30.42	46.00	-15.58	35.26	-4.84	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	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

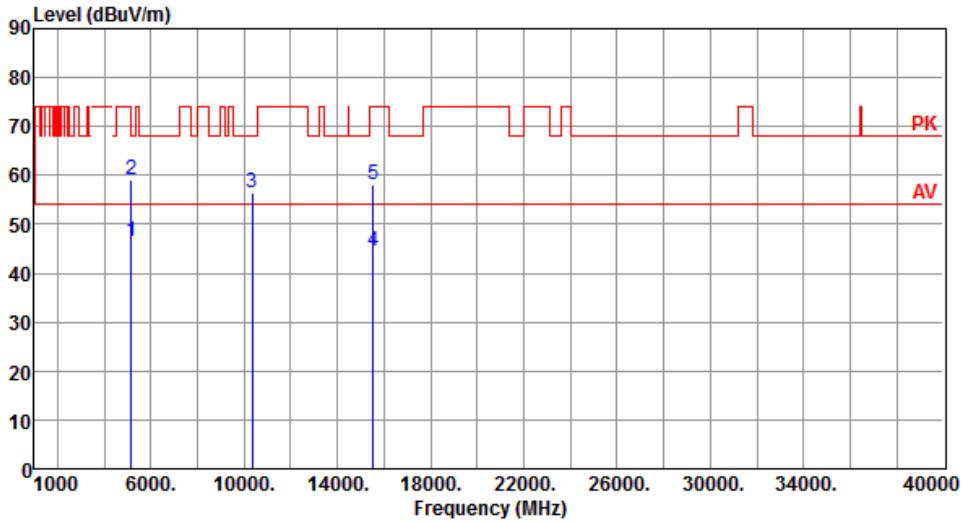


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	36.58	27.51	40.00	-12.49	37.33	-9.82	Peak	---	---
2	145.51	24.61	43.50	-18.89	33.60	-8.99	Peak	---	---
3	173.58	24.31	43.50	-19.19	33.86	-9.55	Peak	---	---
4	232.68	26.74	46.00	-19.26	37.94	-11.20	Peak	---	---
5	251.23	28.33	46.00	-17.67	38.40	-10.07	Peak	---	---
6	307.63	26.49	46.00	-19.51	34.72	-8.23	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.

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

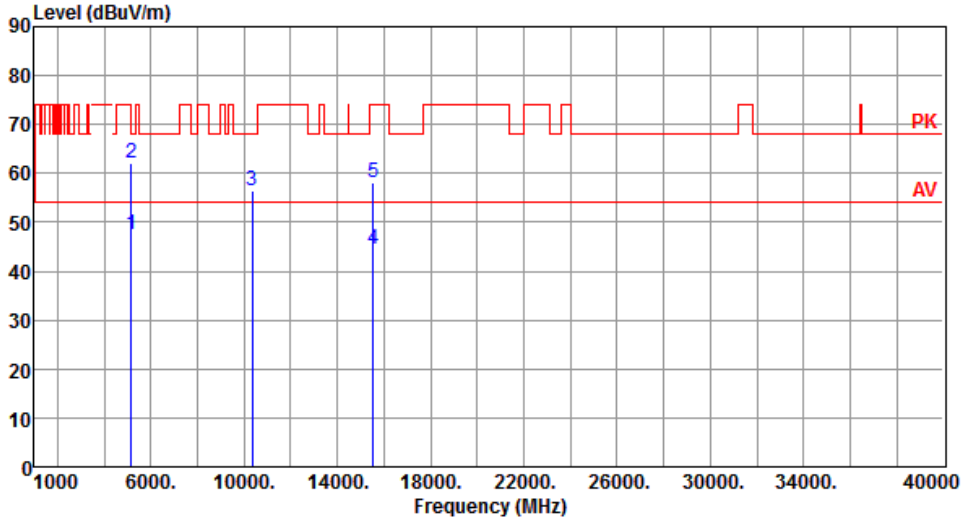
Modulation	11a	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	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	46.39	54.00	-7.61	40.44	5.95	Average	100	225
2	5150.00	59.20	74.00	-14.80	53.25	5.95	Peak	100	225
3	10360.00	56.52	68.20	-11.68	41.42	15.10	Peak	100	49
4	15540.00	44.50	54.00	-9.50	28.85	15.65	Average	100	59
5	15540.00	58.28	74.00	-15.72	42.63	15.65	Peak	100	59

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

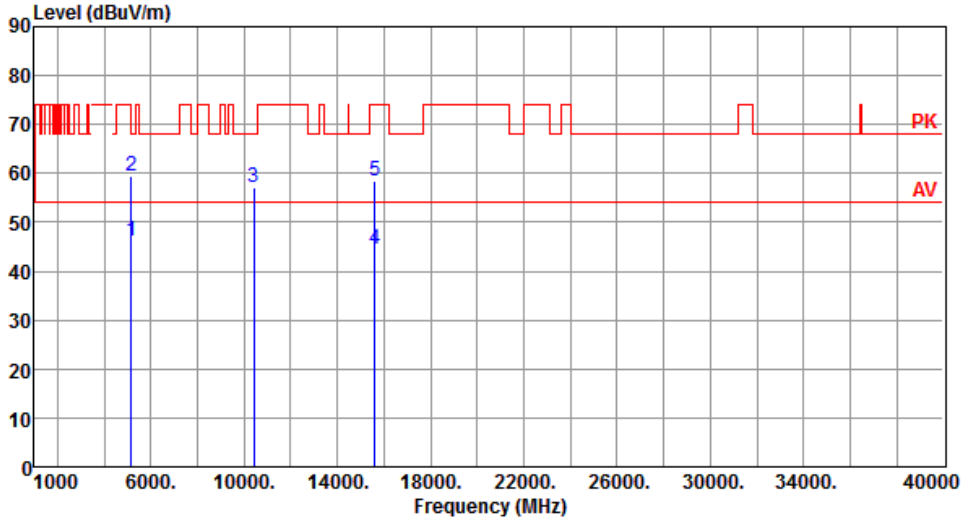
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	47.54	54.00	-6.46	41.59	5.95	Average	125	280
2	5150.00	62.20	74.00	-11.80	56.25	5.95	Peak	125	280
3	10360.00	56.49	68.20	-11.71	41.39	15.10	Peak	100	23
4	15540.00	44.61	54.00	-9.39	28.96	15.65	Average	100	52
5	15540.00	58.17	74.00	-15.83	42.52	15.65	Peak	100	52

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

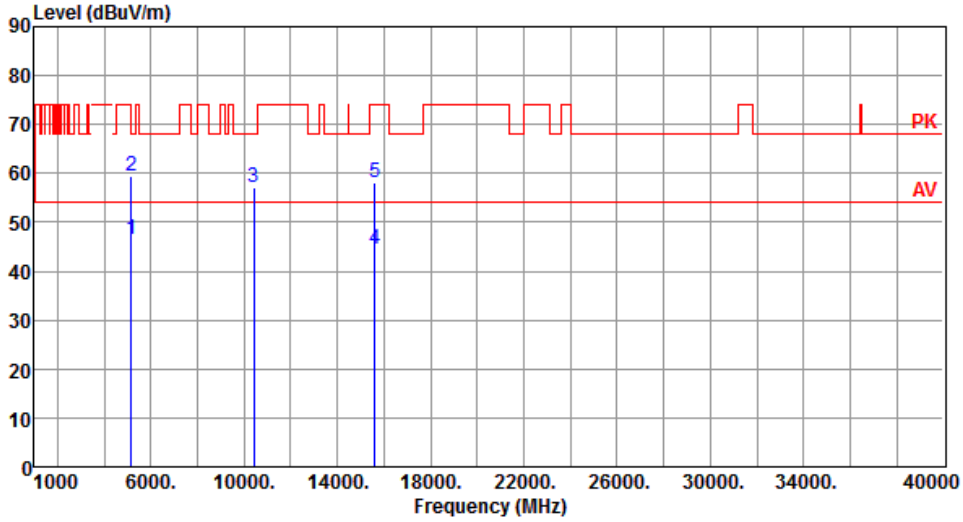
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	46.31	54.00	-7.69	40.36	5.95	Average	103	233
2	5150.00	59.58	74.00	-14.42	53.63	5.95	Peak	103	233
3	10400.00	56.99	68.20	-11.21	41.66	15.33	Peak	100	57
4	15600.00	44.41	54.00	-9.59	28.92	15.49	Average	100	93
5	15600.00	58.33	74.00	-15.67	42.84	15.49	Peak	100	93

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

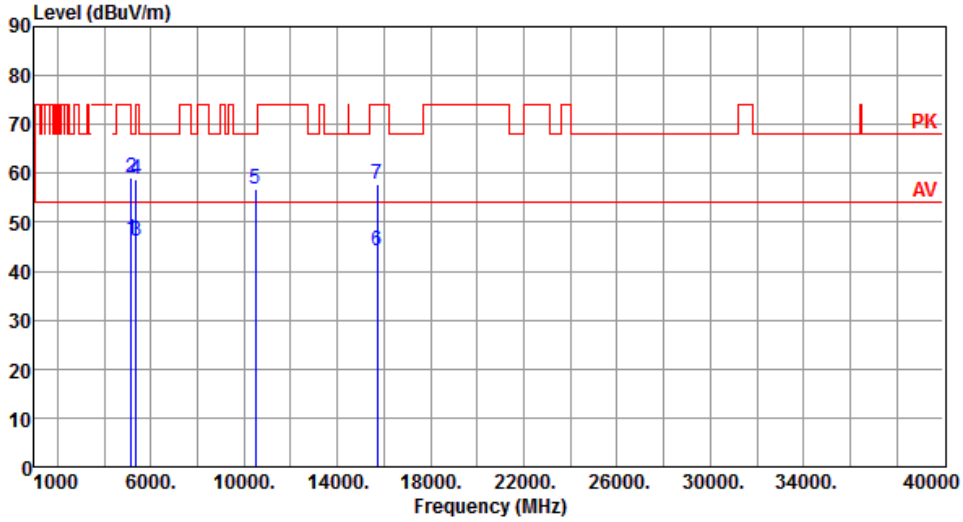
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	46.47	54.00	-7.53	40.52	5.95	Average	112	281
2	5150.00	59.47	74.00	-14.53	53.52	5.95	Peak	112	281
3	10400.00	56.98	68.20	-11.22	41.65	15.33	Peak	100	83
4	15600.00	44.42	54.00	-9.58	28.93	15.49	Average	100	35
5	15600.00	58.15	74.00	-15.85	42.66	15.49	Peak	100	35

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

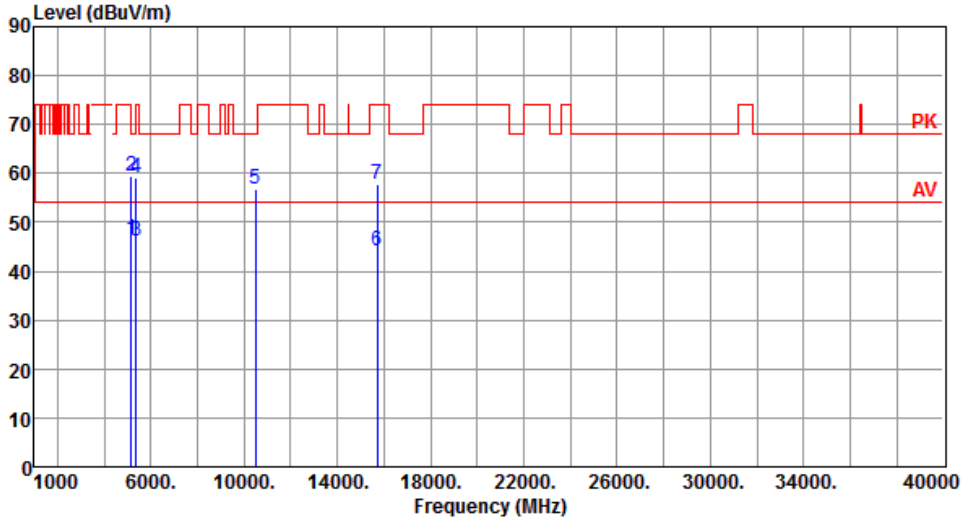
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	46.63	54.00	-7.37	40.68	5.95	Average	102	225
2	5150.00	59.20	74.00	-14.80	53.25	5.95	Peak	102	225
3	5350.00	46.03	54.00	-7.97	40.63	5.40	Average	102	225
4	5350.00	58.94	74.00	-15.06	53.54	5.40	Peak	102	225
5	10480.00	56.95	68.20	-11.25	41.64	15.31	Peak	100	72
6	15720.00	44.19	54.00	-9.81	28.96	15.23	Average	100	67
7	15720.00	57.69	74.00	-16.31	42.46	15.23	Peak	100	67

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

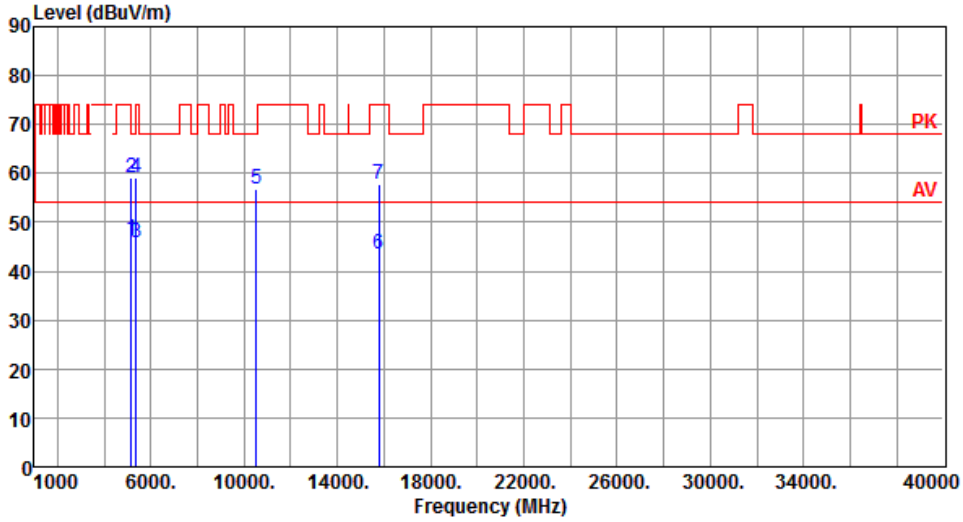
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	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	46.58	54.00	-7.42	40.63	5.95	Average	127	283
2	5150.00	59.50	74.00	-14.50	53.55	5.95	Peak	127	283
3	5350.00	46.11	54.00	-7.89	40.71	5.40	Average	127	283
4	5350.00	59.00	74.00	-15.00	53.60	5.40	Peak	127	283
5	10480.00	56.73	68.20	-11.47	41.42	15.31	Peak	100	25
6	15720.00	44.08	54.00	-9.92	28.85	15.23	Average	100	58
7	15720.00	57.65	74.00	-16.35	42.42	15.23	Peak	100	58

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

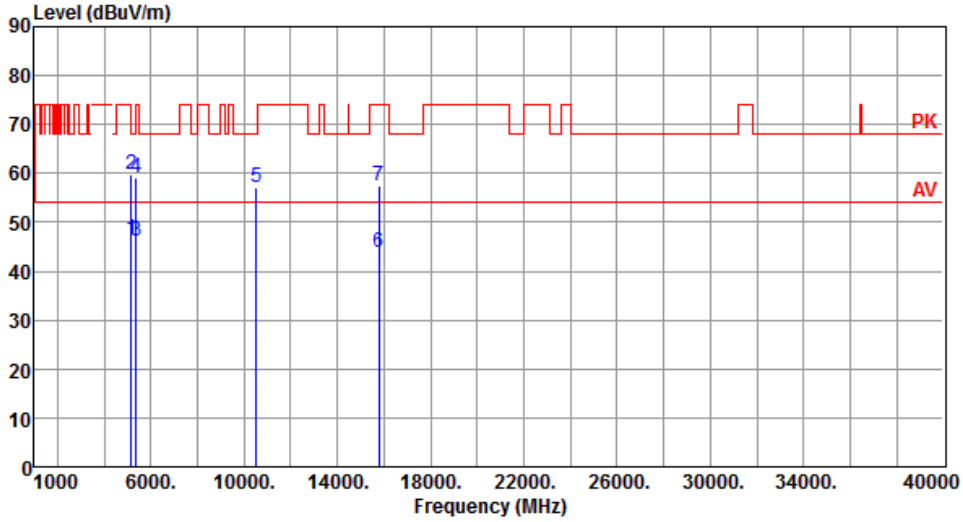
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.58	54.00	-7.42	40.63	5.95	Average	102	228
2	5150.00	59.17	74.00	-14.83	53.22	5.95	Peak	102	228
3	5350.00	45.84	54.00	-8.16	40.44	5.40	Average	102	228
4	5350.00	59.27	74.00	-14.73	53.87	5.40	Peak	102	228
5	10520.00	56.75	68.20	-11.45	41.42	15.33	Peak	100	52
6	15780.00	43.55	54.00	-10.45	28.60	14.95	Average	100	42
7	15780.00	57.70	74.00	-16.30	42.75	14.95	Peak	100	42

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

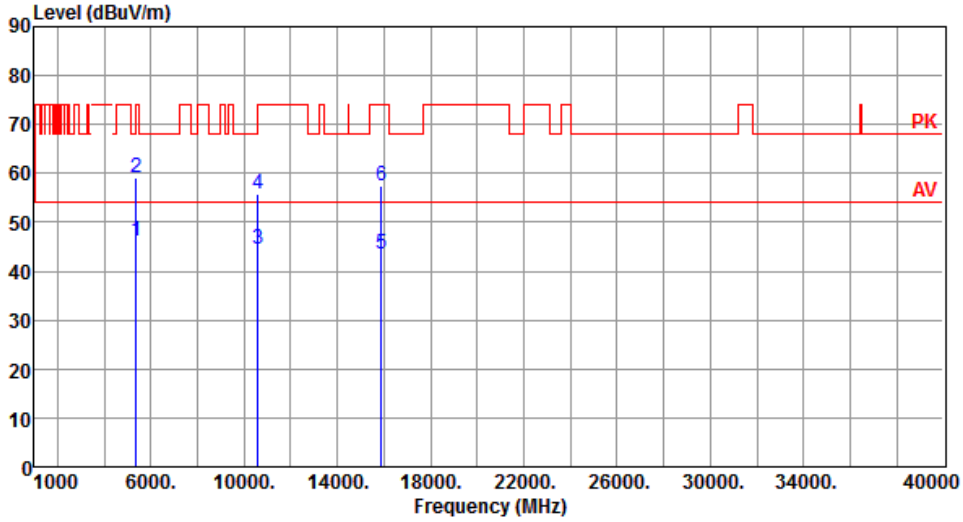
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	46.49	54.00	-7.51	40.54	5.95	Average	129	281
2	5150.00	59.66	74.00	-14.34	53.71	5.95	Peak	129	281
3	5350.00	46.11	54.00	-7.89	40.71	5.40	Average	129	281
4	5350.00	59.06	74.00	-14.94	53.66	5.40	Peak	129	281
5	10520.00	57.26	68.20	-10.94	41.93	15.33	Peak	100	77
6	15780.00	43.70	54.00	-10.30	28.75	14.95	Average	100	52
7	15780.00	57.61	74.00	-16.39	42.66	14.95	Peak	100	52

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

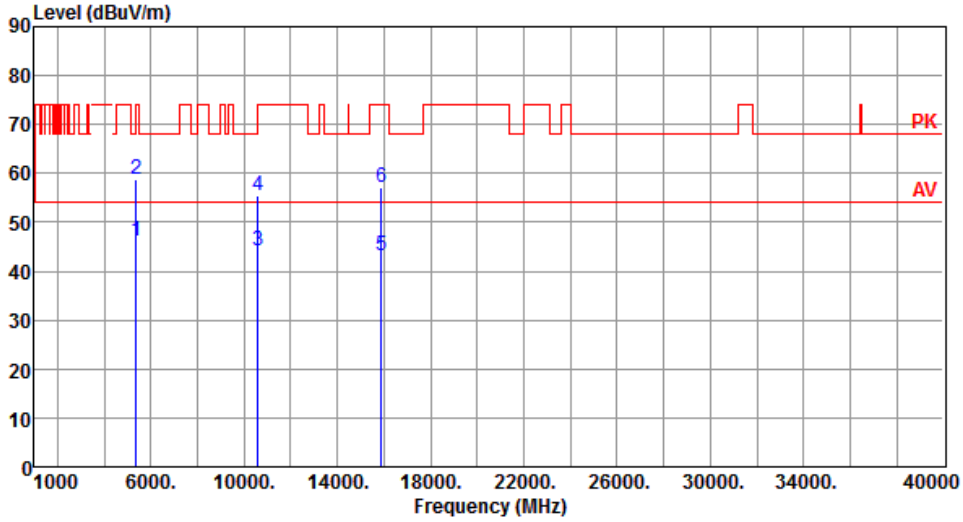
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	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	46.15	54.00	-7.85	40.75	5.40	Average	100	227
2	5350.00	59.11	74.00	-14.89	53.71	5.40	Peak	100	227
3	10600.00	44.36	54.00	-9.64	28.95	15.41	Average	100	75
4	10600.00	55.93	74.00	-18.07	40.52	15.41	Peak	100	75
5	15900.00	43.64	54.00	-10.36	28.75	14.89	Average	100	71
6	15900.00	57.30	74.00	-16.70	42.41	14.89	Peak	100	71

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

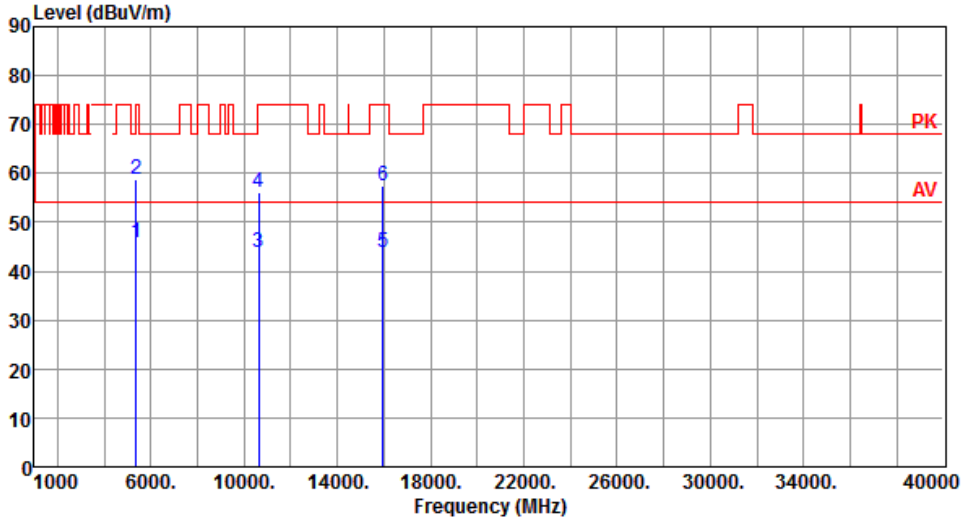
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	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	46.11	54.00	-7.89	40.71	5.40	Average	125	283
2	5350.00	58.81	74.00	-15.19	53.41	5.40	Peak	125	283
3	10600.00	44.11	54.00	-9.89	28.70	15.41	Average	100	92
4	10600.00	55.53	74.00	-18.47	40.12	15.41	Peak	100	92
5	15900.00	43.33	54.00	-10.67	28.44	14.89	Average	100	82
6	15900.00	57.22	74.00	-16.78	42.33	14.89	Peak	100	82

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

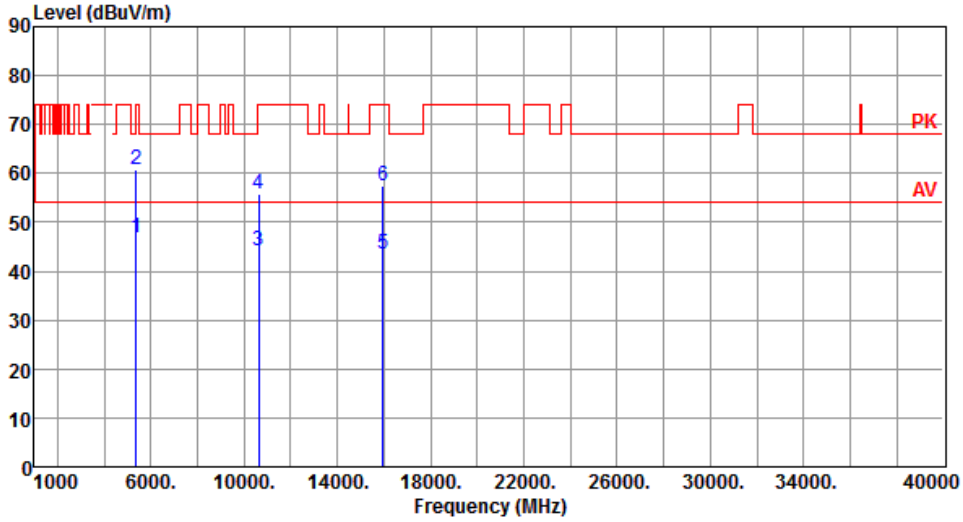
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	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	45.73	54.00	-8.27	40.33	5.40	Average	104	228
2	5350.00	58.92	74.00	-15.08	53.52	5.40	Peak	104	228
3	10640.00	43.96	54.00	-10.04	28.60	15.36	Average	100	71
4	10640.00	55.99	74.00	-18.01	40.63	15.36	Peak	100	71
5	15960.00	43.81	54.00	-10.19	28.90	14.91	Average	100	52
6	15960.00	57.31	74.00	-16.69	42.40	14.91	Peak	100	52

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

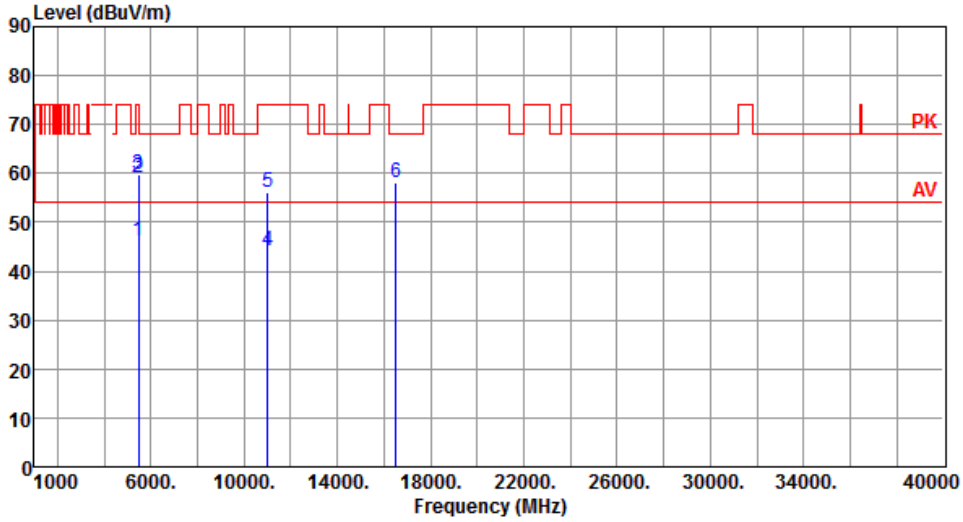
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	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	46.85	54.00	-7.15	41.45	5.40	Average	132	266
2	5350.00	60.84	74.00	-13.16	55.44	5.40	Peak	132	266
3	10640.00	44.10	54.00	-9.90	28.74	15.36	Average	100	35
4	10640.00	55.81	74.00	-18.19	40.45	15.36	Peak	100	35
5	15960.00	43.61	54.00	-10.39	28.70	14.91	Average	100	51
6	15960.00	57.62	74.00	-16.38	42.71	14.91	Peak	100	51

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

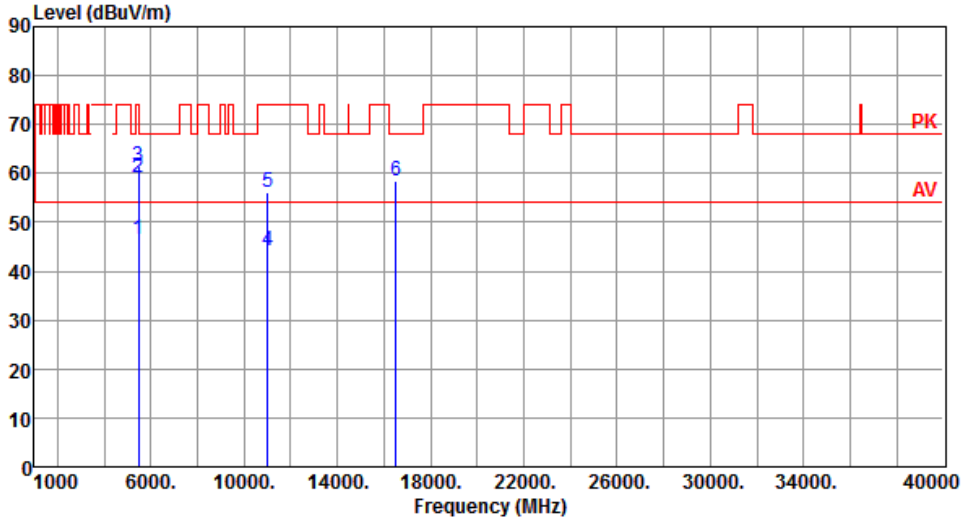
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	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	46.31	54.00	-7.69	40.39	5.92	Average	100	46
2	5460.00	59.20	74.00	-14.80	53.28	5.92	Peak	100	46
3	5470.00	59.85	68.20	-8.35	53.89	5.96	Peak	100	46
4	11000.00	44.08	54.00	-9.92	28.50	15.58	Average	100	32
5	11000.00	56.13	74.00	-17.87	40.55	15.58	Peak	100	32
6	16500.00	57.97	68.20	-10.23	42.14	15.83	Peak	100	44

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

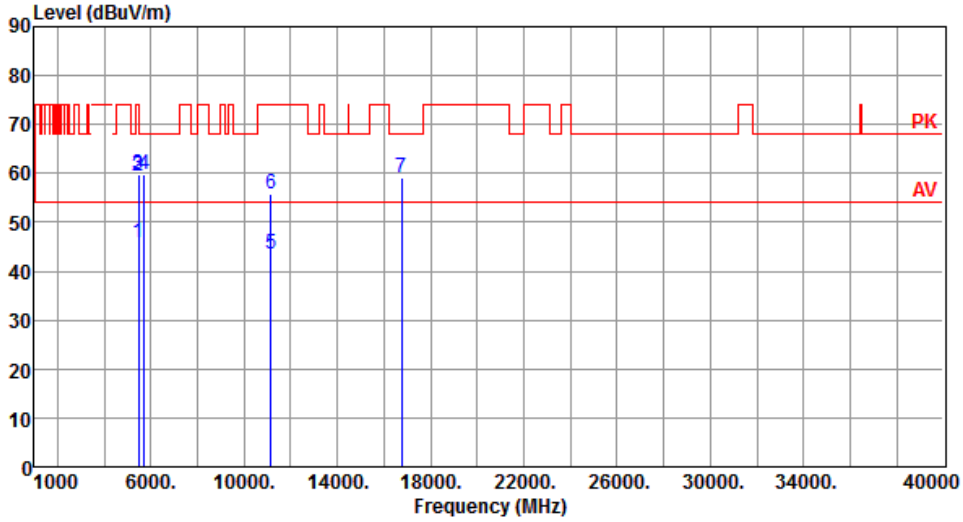
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	46.43	54.00	-7.57	40.51	5.92	Average	100	56
2	5460.00	59.13	74.00	-14.87	53.21	5.92	Peak	100	56
3	5470.00	61.37	68.20	-6.83	55.41	5.96	Peak	100	55
4	11000.00	44.10	54.00	-9.90	28.52	15.58	Average	100	41
5	11000.00	56.20	74.00	-17.80	40.62	15.58	Peak	100	41
6	16500.00	58.35	68.20	-9.85	42.52	15.83	Peak	100	32

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

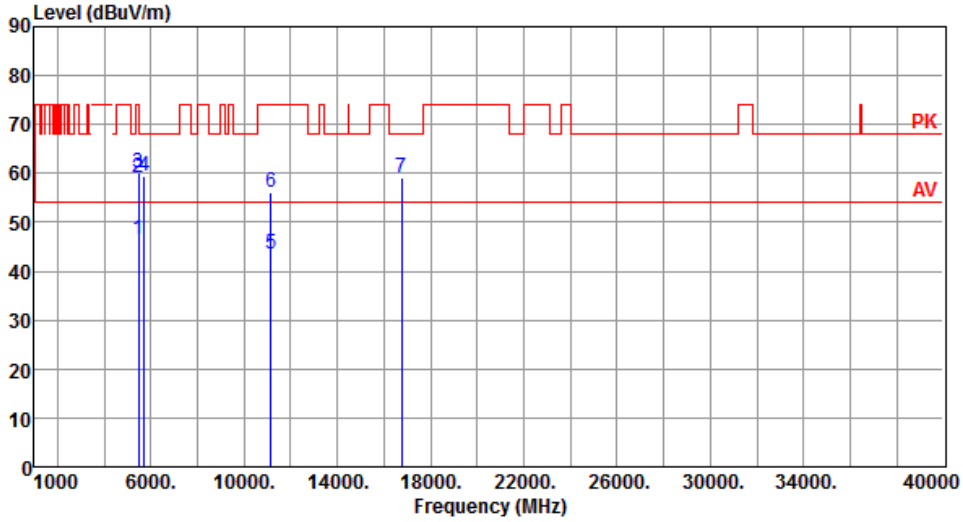
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	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	45.91	54.00	-8.09	39.99	5.92	Average	100	55
2	5460.00	59.43	74.00	-14.57	53.51	5.92	Peak	100	55
3	5470.00	59.70	68.20	-8.50	53.74	5.96	Peak	100	55
4	5725.00	59.71	68.20	-8.49	53.42	6.29	Peak	100	55
5	11160.00	43.62	54.00	-10.38	28.36	15.26	Average	100	28
6	11160.00	55.76	74.00	-18.24	40.50	15.26	Peak	100	28
7	16740.00	59.25	68.20	-8.95	42.40	16.85	Peak	100	33

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

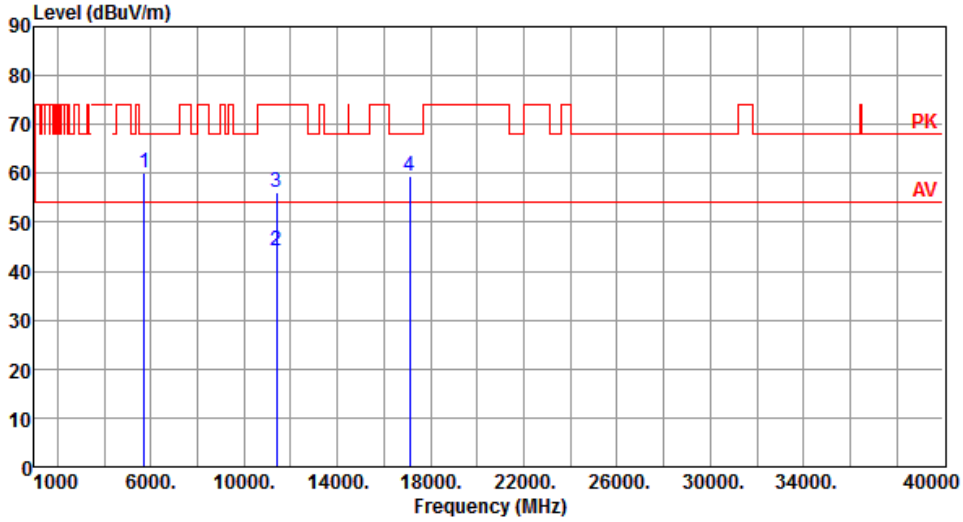
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	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	46.35	54.00	-7.65	40.43	5.92	Average	100	52
2	5460.00	59.13	74.00	-14.87	53.21	5.92	Peak	100	52
3	5470.00	59.95	68.20	-8.25	53.99	5.96	Peak	100	52
4	5725.00	59.56	68.20	-8.64	53.27	6.29	Peak	100	52
5	11160.00	43.66	54.00	-10.34	28.40	15.26	Average	100	32
6	11160.00	56.25	74.00	-17.75	40.99	15.26	Peak	100	32
7	16740.00	58.98	68.20	-9.22	42.13	16.85	Peak	100	28

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

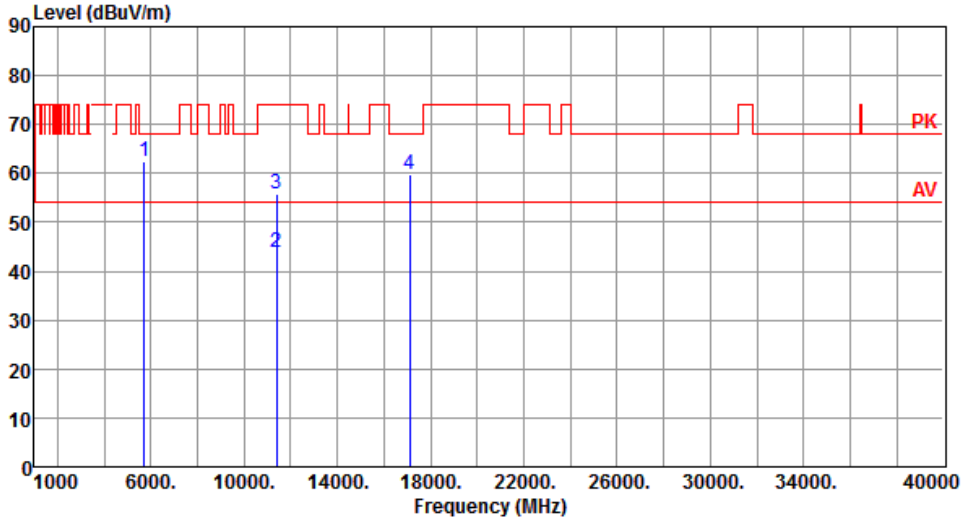
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	60.00	68.20	-8.20	53.71	6.29	Peak	100	55
2	11400.00	44.04	54.00	-9.96	28.71	15.33	Average	100	71
3	11400.00	56.15	74.00	-17.85	40.82	15.33	Peak	100	71
4	17100.00	59.55	68.20	-8.65	42.66	16.89	Peak	100	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).

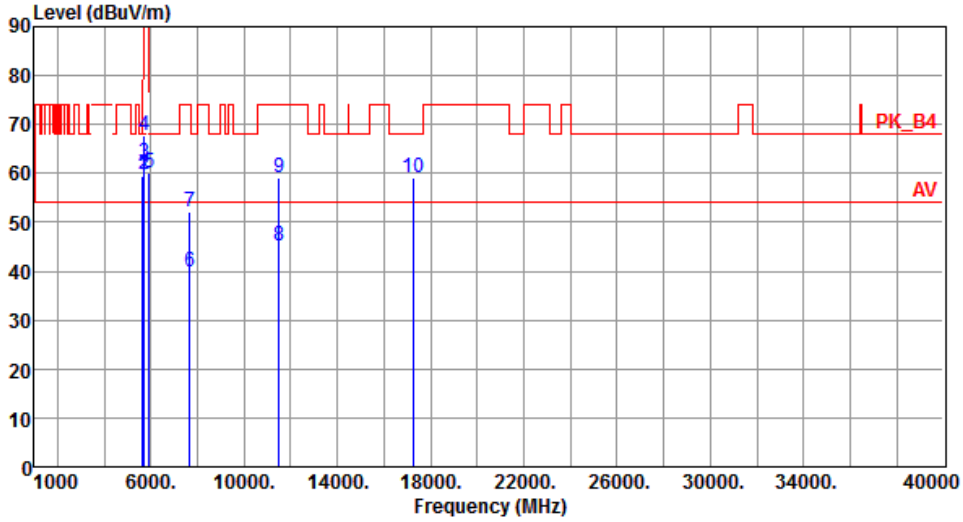
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	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	62.57	68.20	-5.63	56.28	6.29	Peak	100	44
2	11400.00	43.69	54.00	-10.31	28.36	15.33	Average	100	92
3	11400.00	55.85	74.00	-18.15	40.52	15.33	Peak	100	92
4	17100.00	59.82	68.20	-8.38	42.93	16.89	Peak	100	101

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

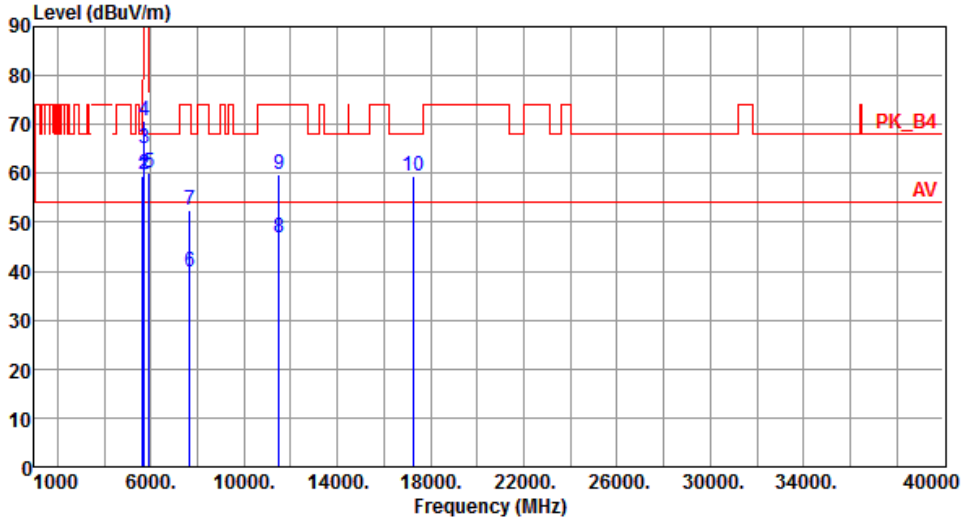
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	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	59.42	68.20	-8.78	53.51	5.91	Peak	100	50
2	5700.00	59.94	105.20	-45.26	53.71	6.23	Peak	100	50
3	5720.00	61.98	110.80	-48.82	55.70	6.28	Peak	100	50
4	5725.00	67.84	122.20	-54.36	61.55	6.29	Peak	100	50
5	5925.00	60.26	68.20	-7.94	53.44	6.82	Peak	100	50
6	7660.00	39.93	54.00	-14.07	29.59	10.34	Average	100	71
7	7660.00	52.03	74.00	-21.97	41.69	10.34	Peak	100	71
8	11490.00	45.03	54.00	-8.97	29.58	15.45	Average	200	60
9	11490.00	59.03	74.00	-14.97	43.58	15.45	Peak	200	60
10	17235.00	59.23	68.20	-8.97	42.25	16.98	Peak	100	59

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

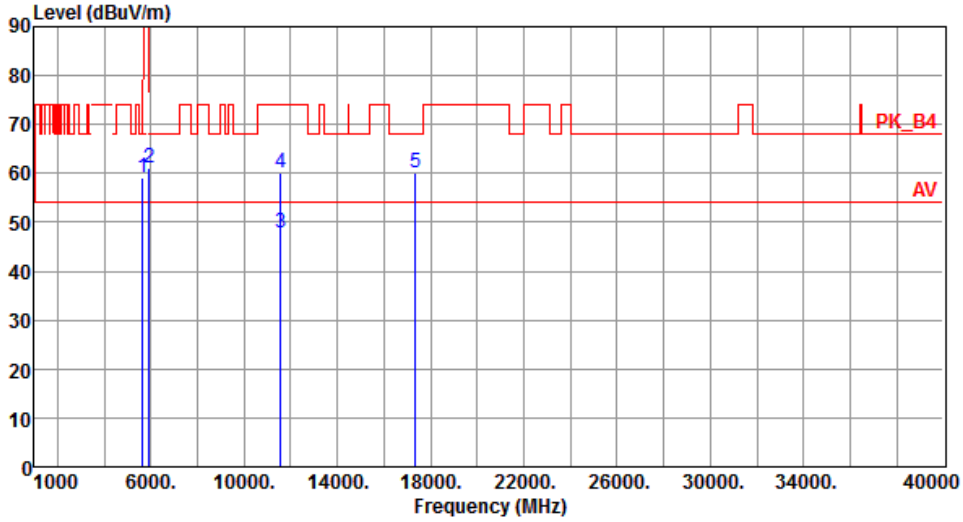
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	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	59.43	68.20	-8.77	53.52	5.91	Peak	100	44
2	5700.00	59.64	105.20	-45.56	53.41	6.23	Peak	100	44
3	5720.00	64.98	110.80	-45.82	58.70	6.28	Peak	100	44
4	5725.00	70.81	122.20	-51.39	64.52	6.29	Peak	100	44
5	5925.00	60.23	68.20	-7.97	53.41	6.82	Peak	100	44
6	7660.00	39.75	54.00	-14.25	29.41	10.34	Average	100	78
7	7660.00	52.63	74.00	-21.37	42.29	10.34	Peak	100	78
8	11490.00	46.71	54.00	-7.29	31.26	15.45	Average	100	122
9	11490.00	59.71	74.00	-14.29	44.26	15.45	Peak	100	122
10	17235.00	59.61	68.20	-8.59	42.63	16.98	Peak	100	92

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

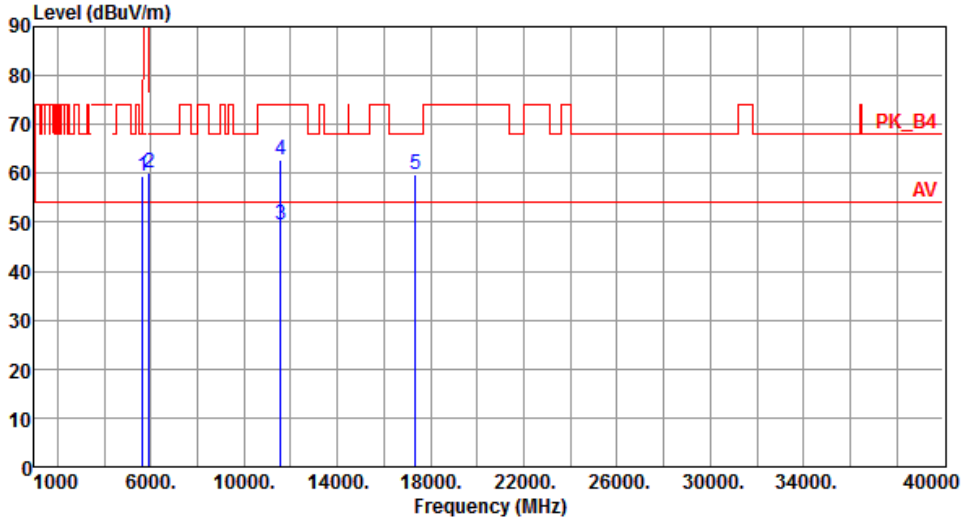
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	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	59.16	68.20	-9.04	53.25	5.91	Peak	100	62
2	5925.00	61.07	68.20	-7.13	54.25	6.82	Peak	100	62
3	11570.00	47.82	54.00	-6.18	32.52	15.30	Average	100	56
4	11570.00	60.05	74.00	-13.95	44.75	15.30	Peak	100	56
5	17355.00	60.02	68.20	-8.18	42.41	17.61	Peak	100	77

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

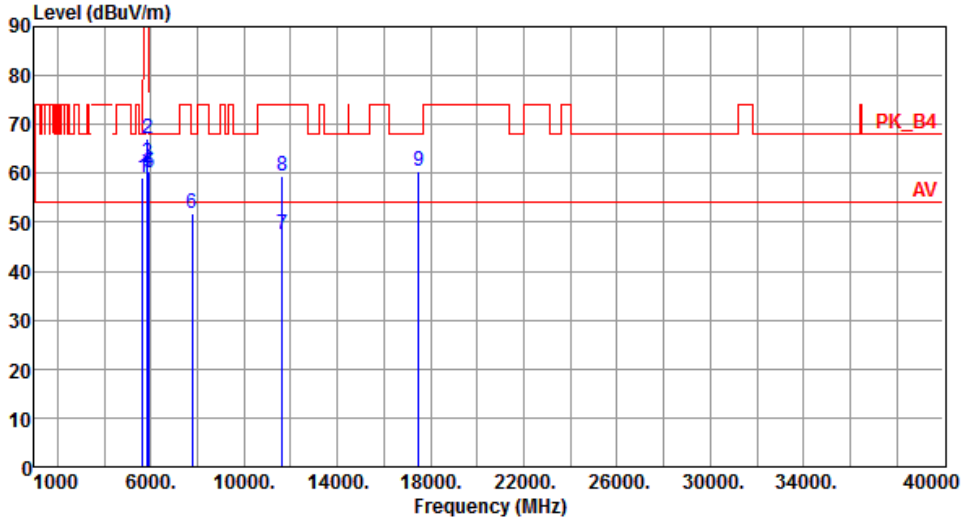
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	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	59.32	68.20	-8.88	53.41	5.91	Peak	100	42
2	5925.00	60.02	68.20	-8.18	53.20	6.82	Peak	100	42
3	11570.00	49.52	54.00	-4.48	34.22	15.30	Average	100	114
4	11570.00	62.82	74.00	-11.18	47.52	15.30	Peak	100	114
5	17355.00	59.75	68.20	-8.45	42.14	17.61	Peak	100	18

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

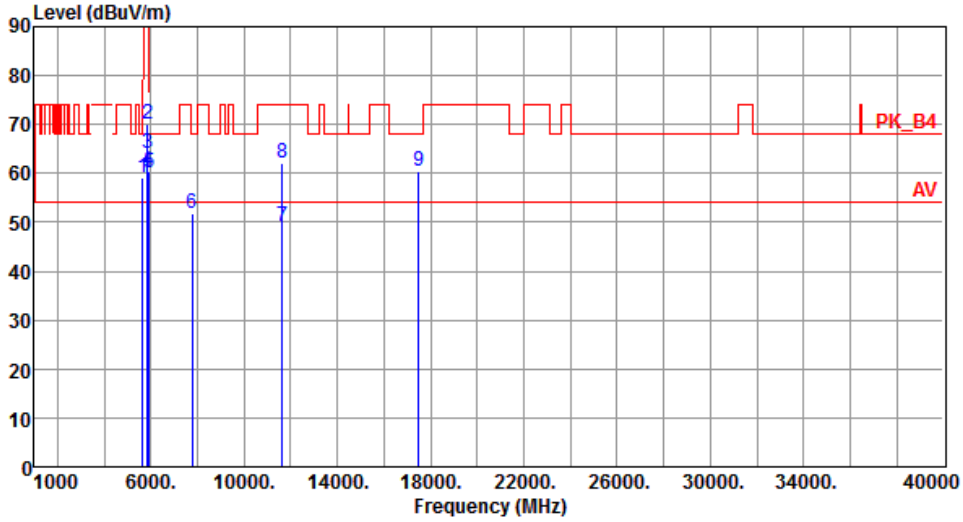
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.05	68.20	-9.15	53.14	5.91	Peak	100	57
2	5850.00	67.22	122.20	-54.98	60.55	6.67	Peak	100	57
3	5855.00	62.10	110.80	-48.70	55.42	6.68	Peak	100	57
4	5875.00	60.33	105.20	-44.87	53.61	6.72	Peak	100	57
5	5925.00	60.07	68.20	-8.13	53.25	6.82	Peak	100	57
6	7766.66	51.93	68.20	-16.27	41.52	10.41	Peak	100	92
7	11650.00	47.58	54.00	-6.42	32.52	15.06	Average	207	63
8	11650.00	59.31	74.00	-14.69	44.25	15.06	Peak	207	63
9	17475.00	60.40	68.20	-7.80	42.17	18.23	Peak	100	58

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

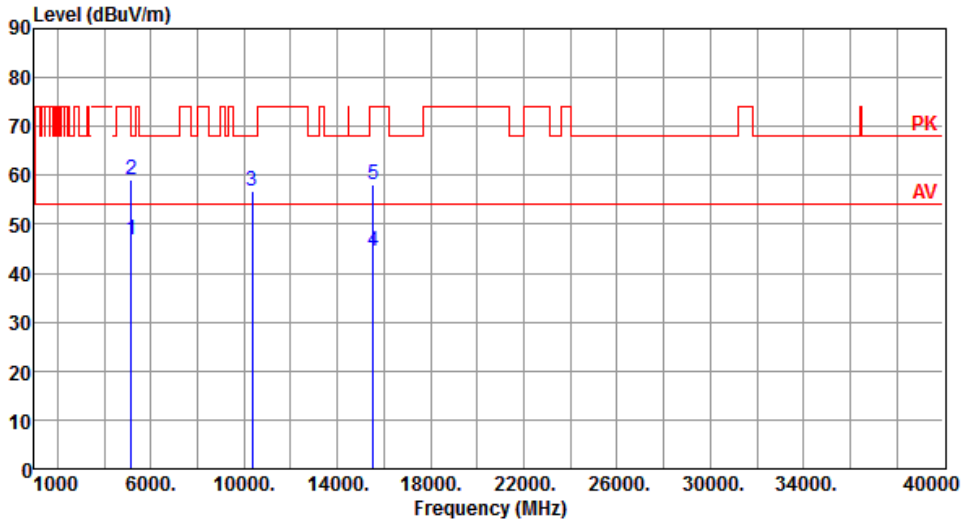


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.16	68.20	-9.04	53.25	5.91	Peak	100	52
2	5850.00	69.92	122.20	-52.28	63.25	6.67	Peak	100	52
3	5855.00	64.09	110.80	-46.71	57.41	6.68	Peak	100	52
4	5875.00	60.30	105.20	-44.90	53.58	6.72	Peak	100	52
5	5925.00	60.06	68.20	-8.14	53.24	6.82	Peak	100	52
6	7766.66	51.85	68.20	-16.35	41.44	10.41	Peak	100	53
7	11650.00	49.31	54.00	-4.69	34.25	15.06	Average	199	115
8	11650.00	62.26	74.00	-11.74	47.20	15.06	Peak	199	115
9	17475.00	60.56	68.20	-7.64	42.33	18.23	Peak	100	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).

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

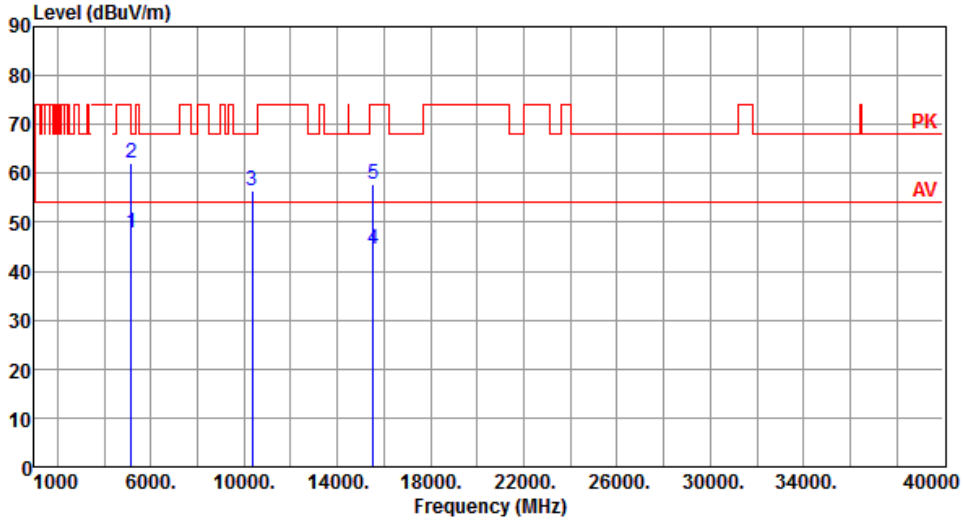
Modulation	HT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.80	54.00	-7.20	40.85	5.95	Average	100	224
2	5150.00	59.20	74.00	-14.80	53.25	5.95	Peak	100	224
3	10360.00	56.95	68.20	-11.25	41.85	15.10	Peak	100	33
4	15540.00	44.39	54.00	-9.61	28.74	15.65	Average	100	62
5	15540.00	58.10	74.00	-15.90	42.45	15.65	Peak	100	62

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

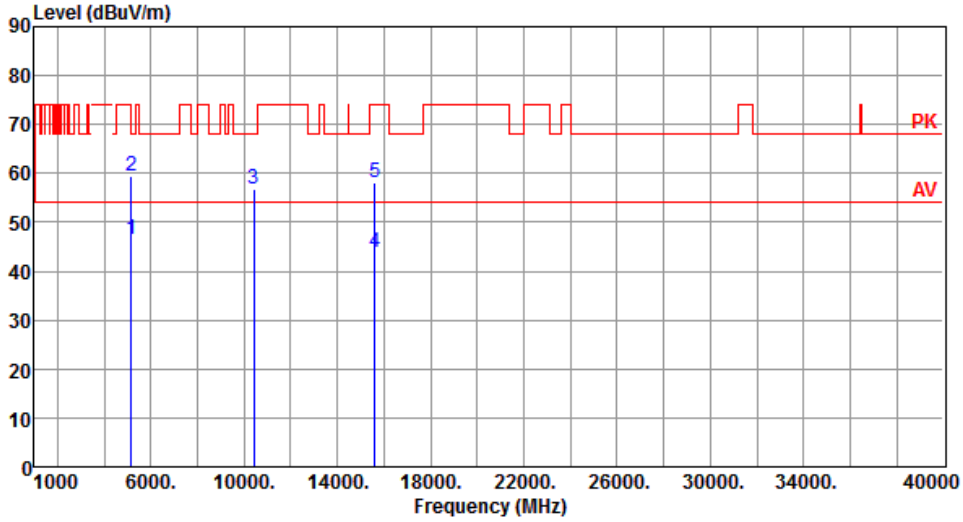
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.80	54.00	-6.20	41.85	5.95	Average	122	274
2	5150.00	62.20	74.00	-11.80	56.25	5.95	Peak	122	274
3	10360.00	56.62	68.20	-11.58	41.52	15.10	Peak	100	33
4	15540.00	44.35	54.00	-9.65	28.70	15.65	Average	100	51
5	15540.00	57.87	74.00	-16.13	42.22	15.65	Peak	100	51

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

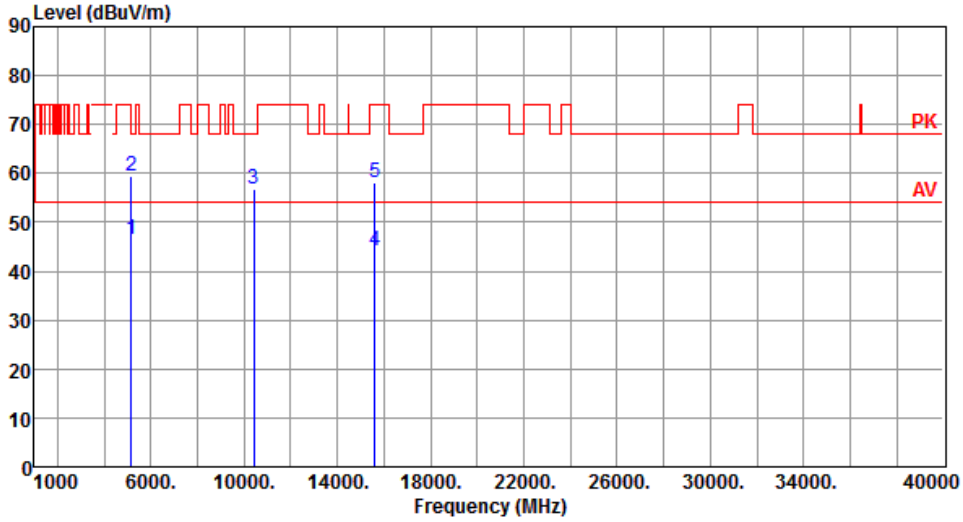
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.47	54.00	-7.53	40.52	5.95	Average	105	227
2	5150.00	59.36	74.00	-14.64	53.41	5.95	Peak	105	227
3	10400.00	56.77	68.20	-11.43	41.44	15.33	Peak	100	58
4	15600.00	43.94	54.00	-10.06	28.45	15.49	Average	100	45
5	15600.00	58.15	74.00	-15.85	42.66	15.49	Peak	100	45

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

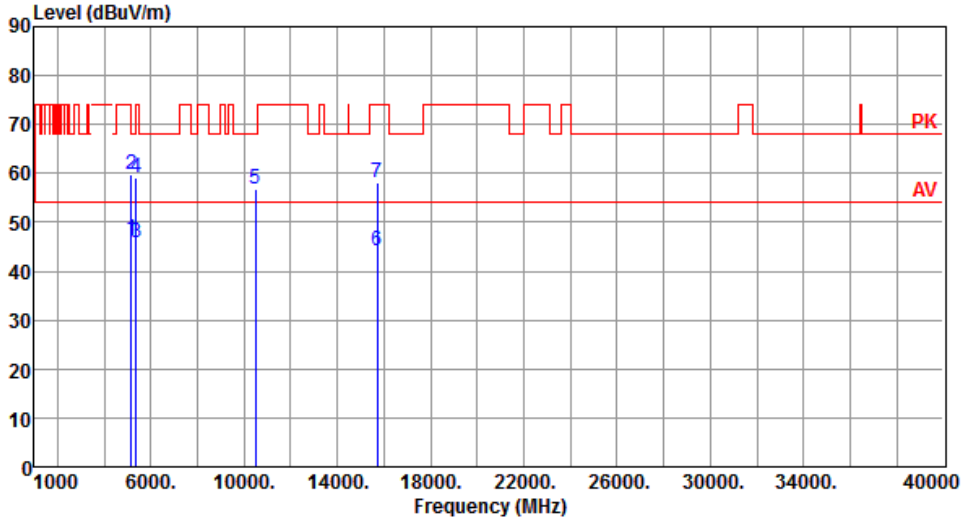
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.43	54.00	-7.57	40.48	5.95	Average	132	280
2	5150.00	59.50	74.00	-14.50	53.55	5.95	Peak	132	280
3	10400.00	56.85	68.20	-11.35	41.52	15.33	Peak	100	54
4	15600.00	44.19	54.00	-9.81	28.70	15.49	Average	100	11
5	15600.00	58.12	74.00	-15.88	42.63	15.49	Peak	100	11

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

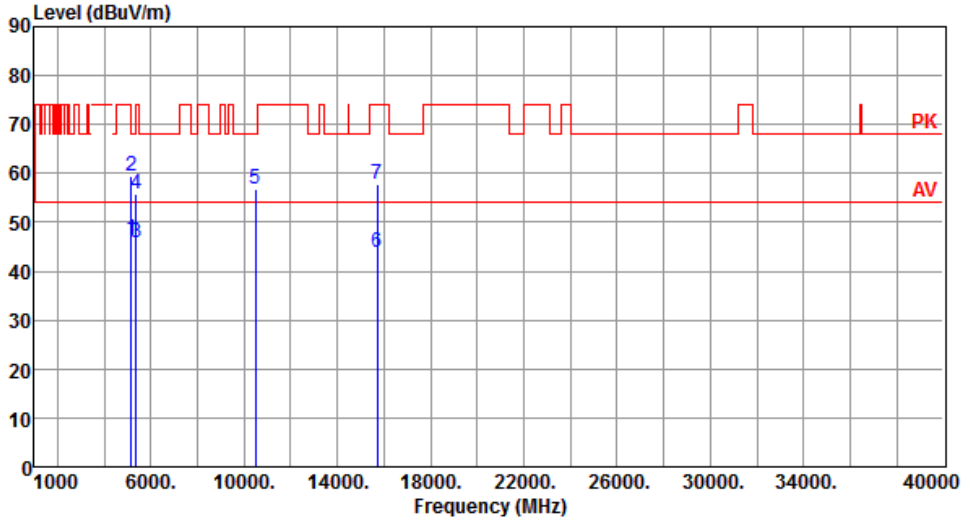
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.64	54.00	-7.36	40.69	5.95	Average	100	223
2	5150.00	59.63	74.00	-14.37	53.68	5.95	Peak	100	223
3	5350.00	45.98	54.00	-8.02	40.58	5.40	Average	100	223
4	5350.00	59.06	74.00	-14.94	53.66	5.40	Peak	100	223
5	10480.00	56.83	68.20	-11.37	41.52	15.31	Peak	100	74
6	15720.00	44.19	54.00	-9.81	28.96	15.23	Average	100	59
7	15720.00	57.99	74.00	-16.01	42.76	15.23	Peak	100	59

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

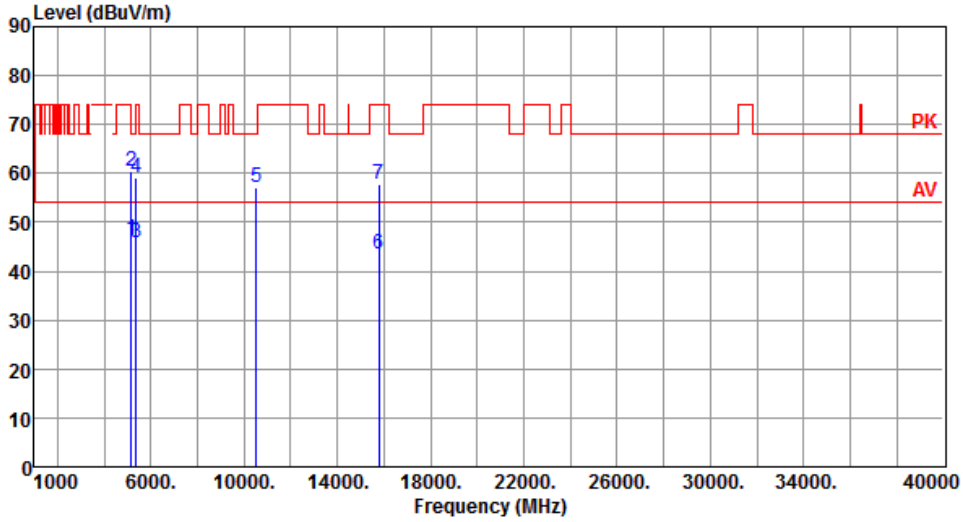
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.37	54.00	-7.63	40.42	5.95	Average	125	274
2	5150.00	59.36	74.00	-14.64	53.41	5.95	Peak	125	274
3	5350.00	45.90	54.00	-8.10	40.50	5.40	Average	125	274
4	5350.00	55.80	74.00	-18.20	50.40	5.40	Peak	125	274
5	10480.00	56.76	68.20	-11.44	41.45	15.31	Peak	100	23
6	15720.00	43.74	54.00	-10.26	28.51	15.23	Average	100	52
7	15720.00	57.68	74.00	-16.32	42.45	15.23	Peak	100	52

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

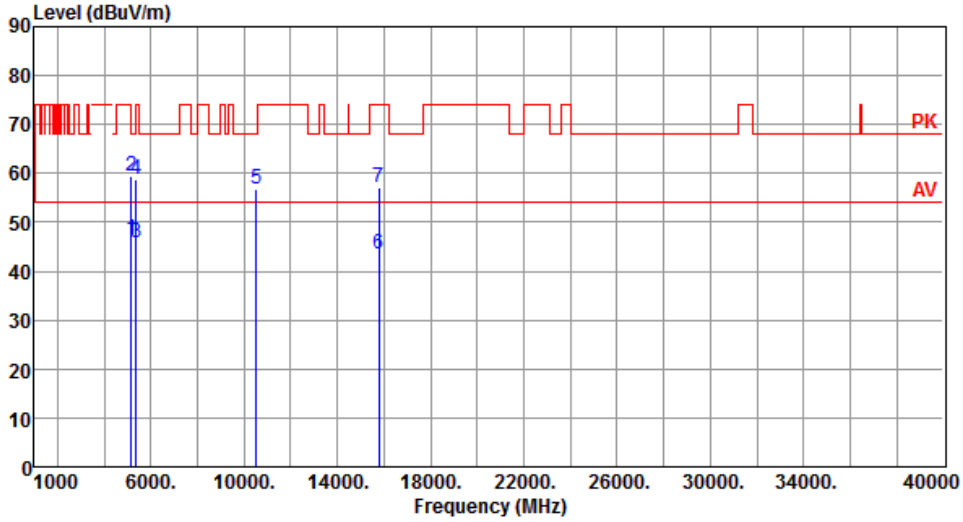
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.47	54.00	-7.53	40.52	5.95	Average	106	223
2	5150.00	60.40	74.00	-13.60	54.45	5.95	Peak	106	223
3	5350.00	45.92	54.00	-8.08	40.52	5.40	Average	106	223
4	5350.00	59.25	74.00	-14.75	53.85	5.40	Peak	106	223
5	10520.00	57.07	68.20	-11.13	41.74	15.33	Peak	100	52
6	15780.00	43.64	54.00	-10.36	28.69	14.95	Average	100	24
7	15780.00	57.69	74.00	-16.31	42.74	14.95	Peak	100	24

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

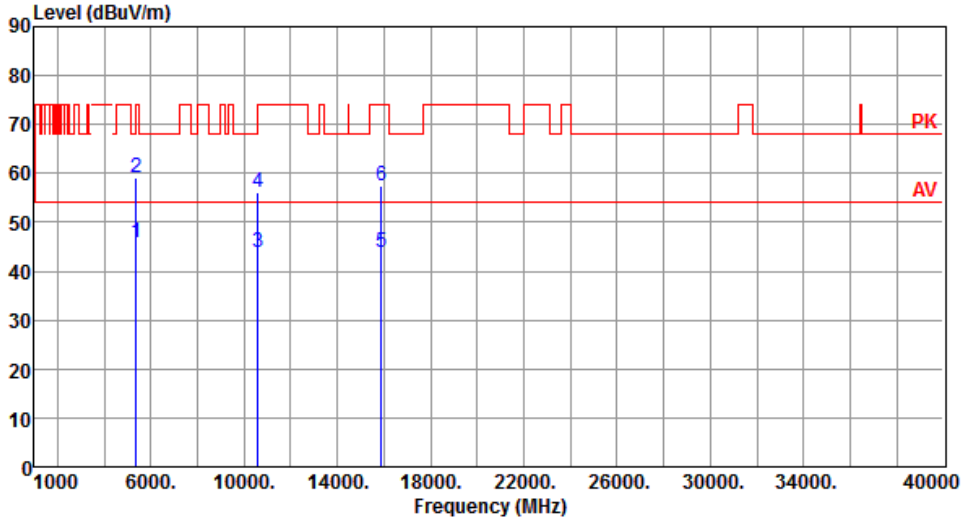
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.36	54.00	-7.64	40.41	5.95	Average	100	284
2	5150.00	59.39	74.00	-14.61	53.44	5.95	Peak	100	284
3	5350.00	45.81	54.00	-8.19	40.41	5.40	Average	100	284
4	5350.00	58.68	74.00	-15.32	53.28	5.40	Peak	100	284
5	10520.00	56.69	68.20	-11.51	41.36	15.33	Peak	100	87
6	15780.00	43.36	54.00	-10.64	28.41	14.95	Average	100	78
7	15780.00	57.10	74.00	-16.90	42.15	14.95	Peak	100	78

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

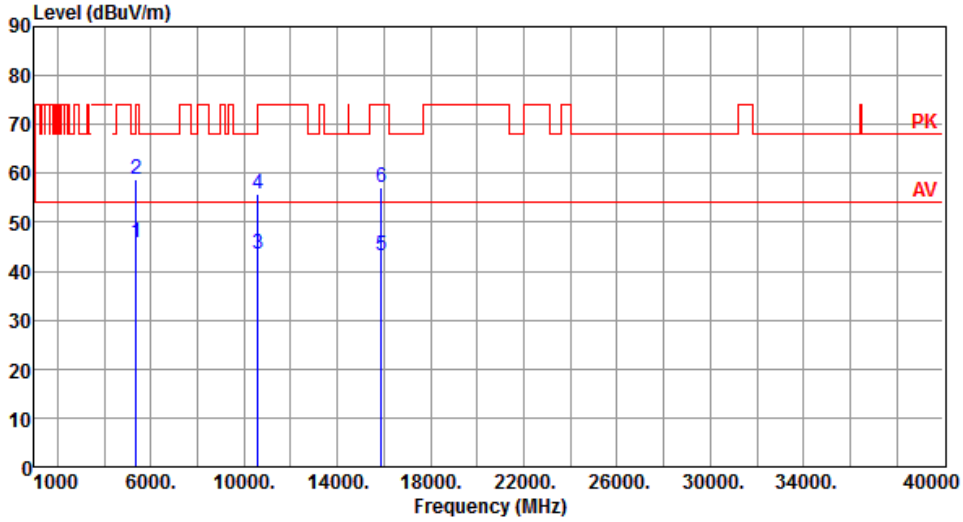
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.92	54.00	-8.08	40.52	5.40	Average	105	224
2	5350.00	59.17	74.00	-14.83	53.77	5.40	Peak	105	224
3	10600.00	43.98	54.00	-10.02	28.57	15.41	Average	100	62
4	10600.00	55.98	74.00	-18.02	40.57	15.41	Peak	100	62
5	15900.00	43.85	54.00	-10.15	28.96	14.89	Average	100	71
6	15900.00	57.60	74.00	-16.40	42.71	14.89	Peak	100	71

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

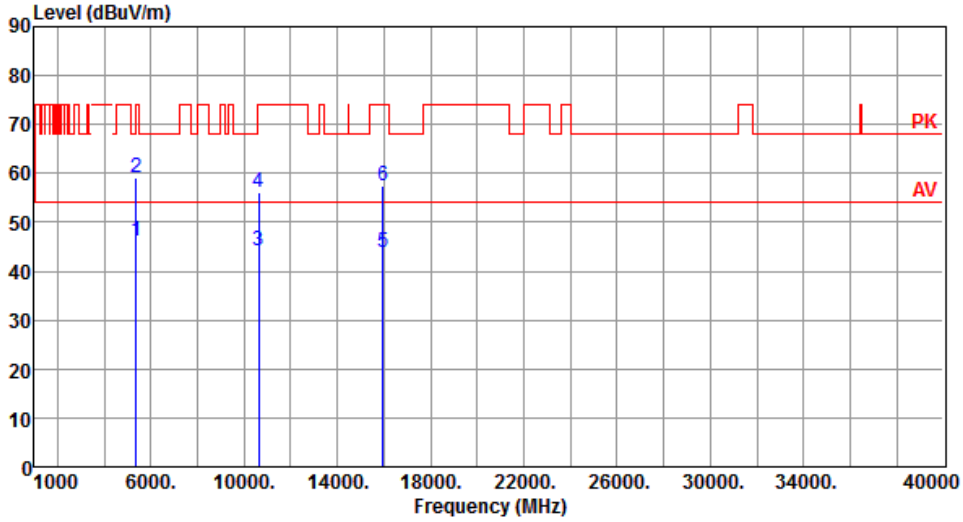
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.85	54.00	-8.15	40.45	5.40	Average	125	277
2	5350.00	58.85	74.00	-15.15	53.45	5.40	Peak	125	277
3	10600.00	43.65	54.00	-10.35	28.24	15.41	Average	100	72
4	10600.00	55.82	74.00	-18.18	40.41	15.41	Peak	100	72
5	15900.00	43.32	54.00	-10.68	28.43	14.89	Average	100	79
6	15900.00	57.25	74.00	-16.75	42.36	14.89	Peak	100	79

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

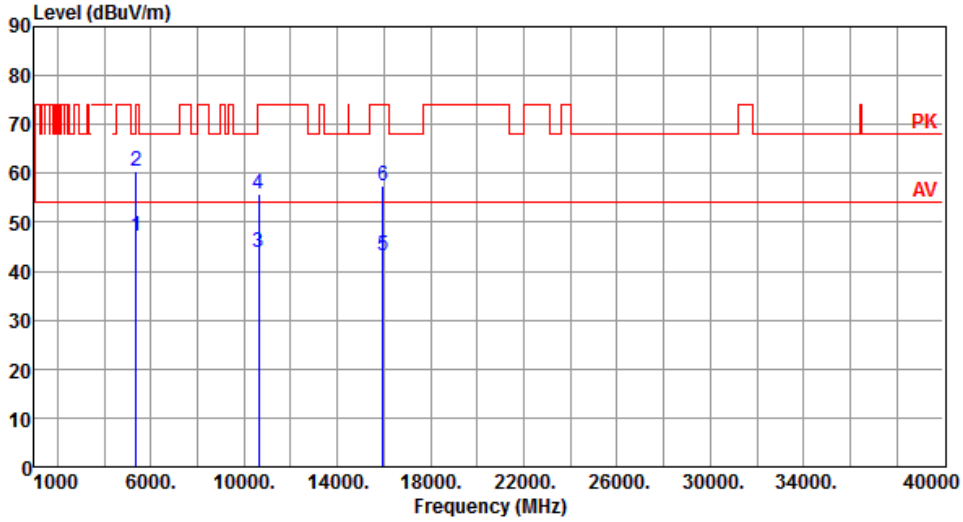
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.25	54.00	-7.75	40.85	5.40	Average	100	224
2	5350.00	58.98	74.00	-15.02	53.58	5.40	Peak	100	224
3	10640.00	44.29	54.00	-9.71	28.93	15.36	Average	100	75
4	10640.00	56.20	74.00	-17.80	40.84	15.36	Peak	100	75
5	15960.00	43.87	54.00	-10.13	28.96	14.91	Average	100	45
6	15960.00	57.47	74.00	-16.53	42.56	14.91	Peak	100	45

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

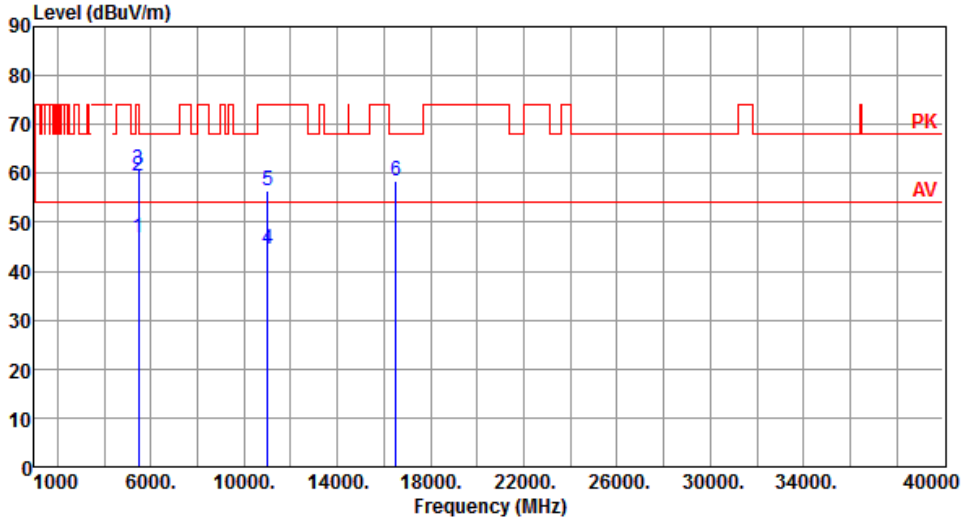
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.15	54.00	-6.85	41.75	5.40	Average	125	275
2	5350.00	60.54	74.00	-13.46	55.14	5.40	Peak	125	275
3	10640.00	43.69	54.00	-10.31	28.33	15.36	Average	100	42
4	10640.00	55.77	74.00	-18.23	40.41	15.36	Peak	100	42
5	15960.00	43.33	54.00	-10.67	28.42	14.91	Average	100	53
6	15960.00	57.40	74.00	-16.60	42.49	14.91	Peak	100	53

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

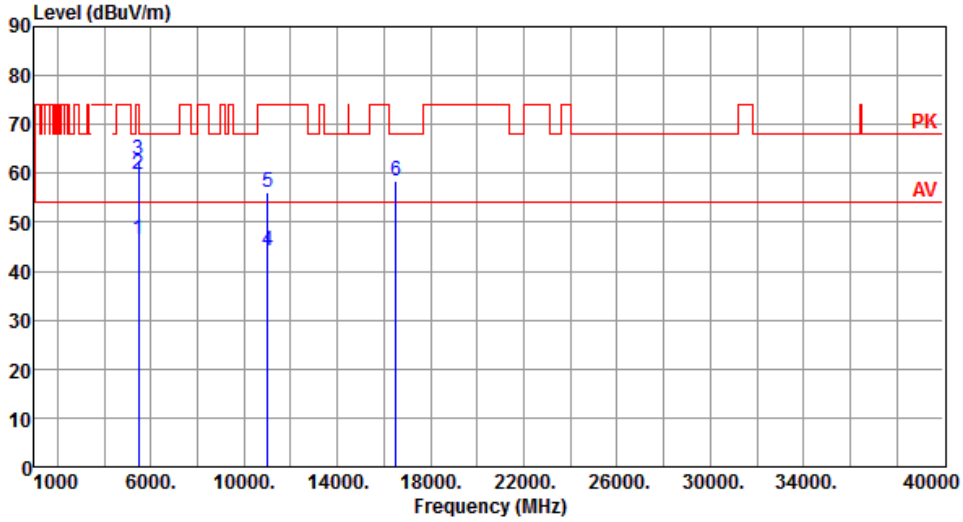
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	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	46.66	54.00	-7.34	40.74	5.92	Average	100	52
2	5460.00	59.47	74.00	-14.53	53.55	5.92	Peak	100	52
3	5470.00	60.71	68.20	-7.49	54.75	5.96	Peak	100	52
4	11000.00	44.48	54.00	-9.52	28.90	15.58	Average	100	36
5	11000.00	56.32	74.00	-17.68	40.74	15.58	Peak	100	36
6	16500.00	58.46	68.20	-9.74	42.63	15.83	Peak	100	15

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

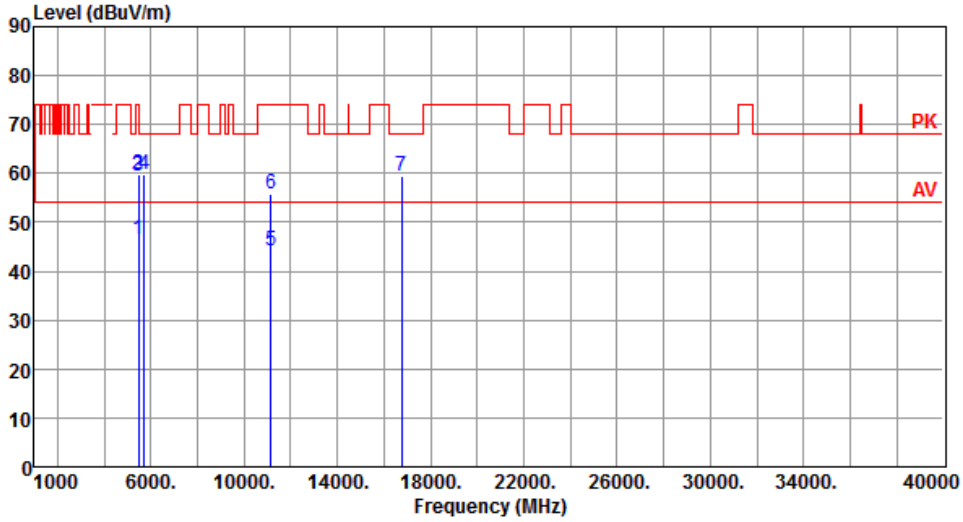
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	46.54	54.00	-7.46	40.62	5.92	Average	100	53
2	5460.00	59.62	74.00	-14.38	53.70	5.92	Peak	100	53
3	5470.00	62.67	68.20	-5.53	56.71	5.96	Peak	100	53
4	11000.00	44.03	54.00	-9.97	28.45	15.58	Average	100	92
5	11000.00	56.10	74.00	-17.90	40.52	15.58	Peak	100	92
6	16500.00	58.35	68.20	-9.85	42.52	15.83	Peak	100	111

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

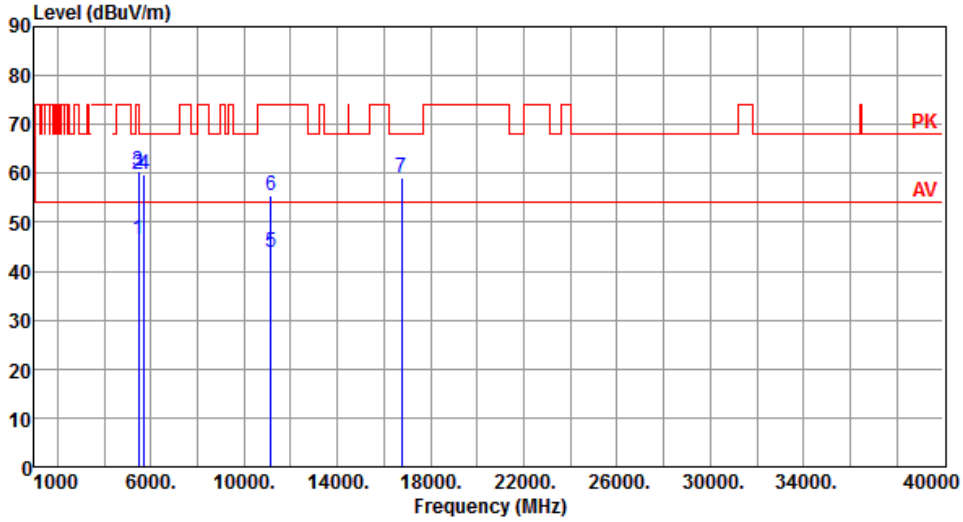
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.49	54.00	-7.51	40.57	5.92	Average	100	52
2	5460.00	59.66	74.00	-14.34	53.74	5.92	Peak	100	52
3	5470.00	59.58	68.20	-8.62	53.62	5.96	Peak	100	52
4	5725.00	59.82	68.20	-8.38	53.53	6.29	Peak	100	52
5	11160.00	44.13	54.00	-9.87	28.87	15.26	Average	100	53
6	11160.00	55.91	74.00	-18.09	40.65	15.26	Peak	100	53
7	16740.00	59.59	68.20	-8.61	42.74	16.85	Peak	100	41

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

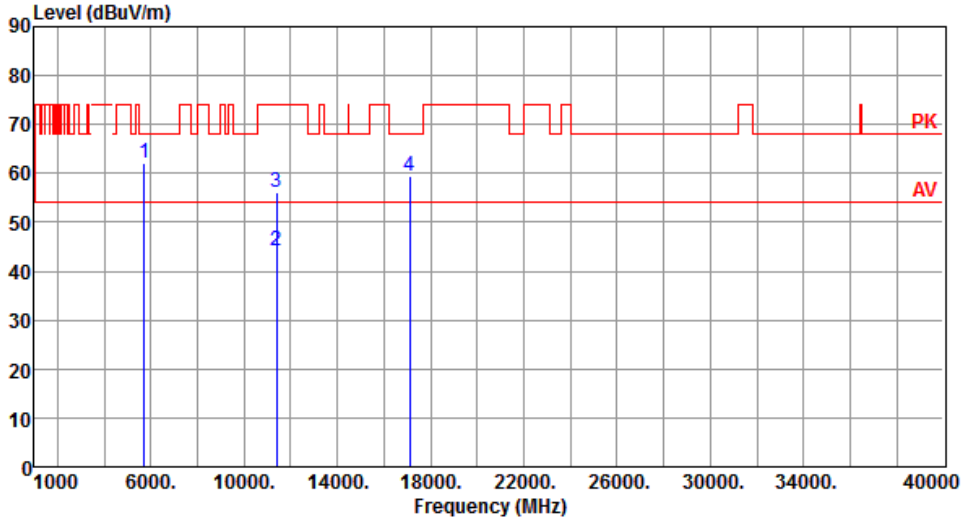
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.43	54.00	-7.57	40.51	5.92	Average	100	55
2	5460.00	59.65	74.00	-14.35	53.73	5.92	Peak	100	55
3	5470.00	60.32	68.20	-7.88	54.36	5.96	Peak	100	55
4	5725.00	59.94	68.20	-8.26	53.65	6.29	Peak	100	55
5	11160.00	43.89	54.00	-10.11	28.63	15.26	Average	100	32
6	11160.00	55.51	74.00	-18.49	40.25	15.26	Peak	100	32
7	16740.00	59.04	68.20	-9.16	42.19	16.85	Peak	100	24

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

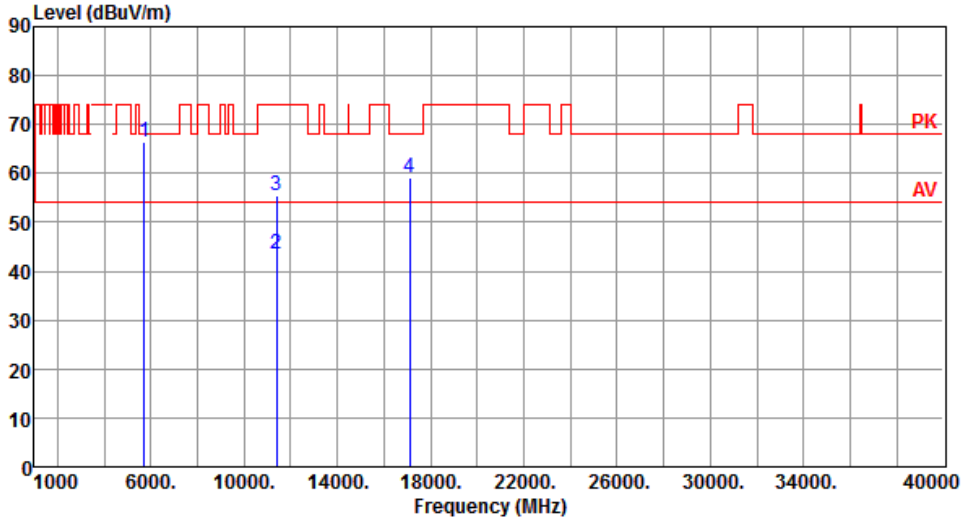
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	62.22	68.20	-5.98	55.93	6.29	Peak	100	54
2	11400.00	44.07	54.00	-9.93	28.74	15.33	Average	100	102
3	11400.00	56.07	74.00	-17.93	40.74	15.33	Peak	100	102
4	17100.00	59.55	68.20	-8.65	42.66	16.89	Peak	100	52

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

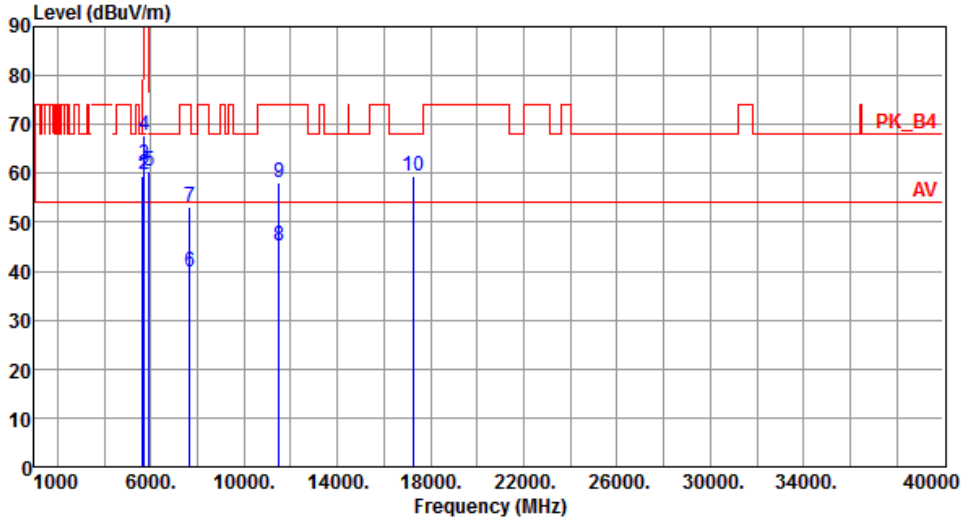
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	66.49	68.20	-1.71	60.20	6.29	Peak	100	45
2	11400.00	43.63	54.00	-10.37	28.30	15.33	Average	100	91
3	11400.00	55.58	74.00	-18.42	40.25	15.33	Peak	100	91
4	17100.00	59.14	68.20	-9.06	42.25	16.89	Peak	100	83

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

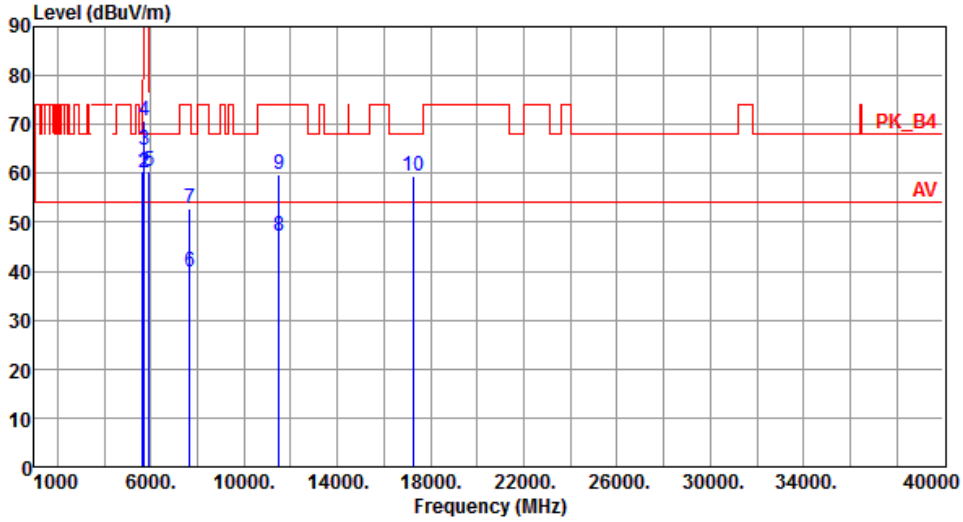
Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	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	59.43	68.20	-8.77	53.52	5.91	Peak	100	52
2	5700.00	59.75	105.20	-45.45	53.52	6.23	Peak	100	52
3	5720.00	61.93	110.80	-48.87	55.65	6.28	Peak	100	52
4	5725.00	67.88	122.20	-54.32	61.59	6.29	Peak	100	52
5	5925.00	60.57	68.20	-7.63	53.75	6.82	Peak	100	52
6	7660.00	39.99	54.00	-14.01	29.65	10.34	Average	100	87
7	7660.00	53.07	74.00	-20.93	42.73	10.34	Peak	100	87
8	11490.00	45.09	54.00	-8.91	29.64	15.45	Average	188	125
9	11490.00	58.23	74.00	-15.77	42.78	15.45	Peak	188	125
10	17235.00	59.33	68.20	-8.87	42.35	16.98	Peak	100	74

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

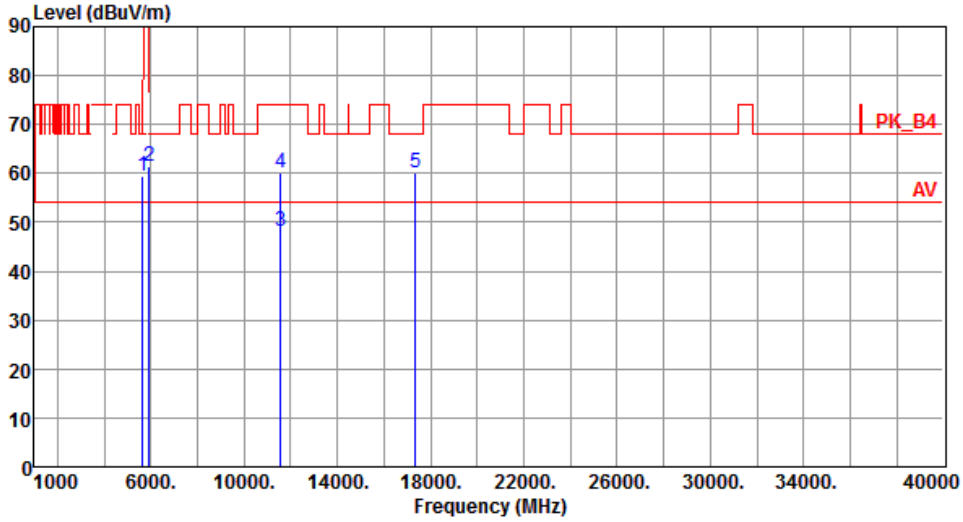
Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	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	60.43	68.20	-7.77	54.52	5.91	Peak	100	47
2	5700.00	60.08	105.20	-45.12	53.85	6.23	Peak	100	47
3	5720.00	64.90	110.80	-45.90	58.62	6.28	Peak	100	47
4	5725.00	70.81	122.20	-51.39	64.52	6.29	Peak	100	47
5	5925.00	60.34	68.20	-7.86	53.52	6.82	Peak	100	47
6	7660.00	39.93	54.00	-14.07	29.59	10.34	Average	100	72
7	7660.00	52.93	74.00	-21.07	42.59	10.34	Peak	100	72
8	11490.00	47.09	54.00	-6.91	31.64	15.45	Average	206	122
9	11490.00	59.71	74.00	-14.29	44.26	15.45	Peak	206	122
10	17235.00	59.61	68.20	-8.59	42.63	16.98	Peak	100	82

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

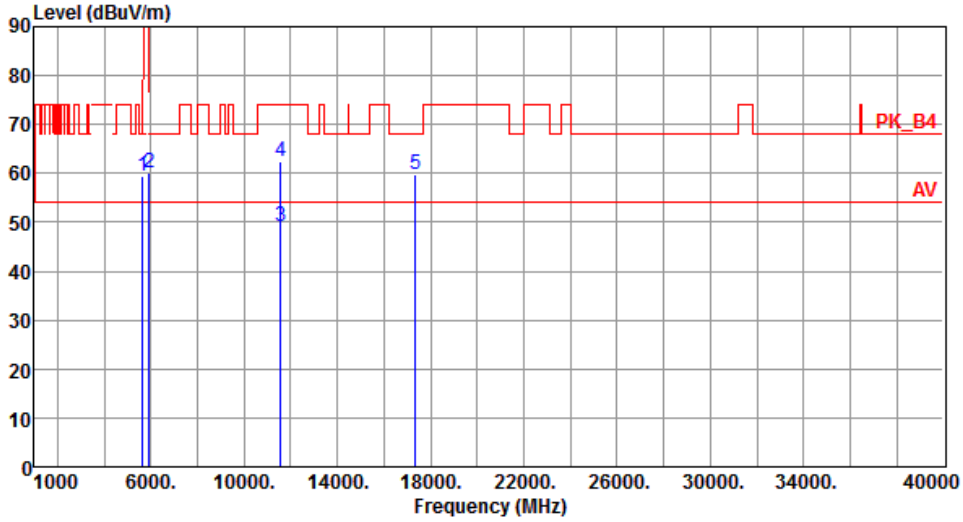
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	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	59.43	68.20	-8.77	53.52	5.91	Peak	100	56
2	5925.00	61.45	68.20	-6.75	54.63	6.82	Peak	100	56
3	11570.00	48.05	54.00	-5.95	32.75	15.30	Average	199	61
4	11570.00	60.04	74.00	-13.96	44.74	15.30	Peak	199	61
5	17355.00	60.21	68.20	-7.99	42.60	17.61	Peak	100	75

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

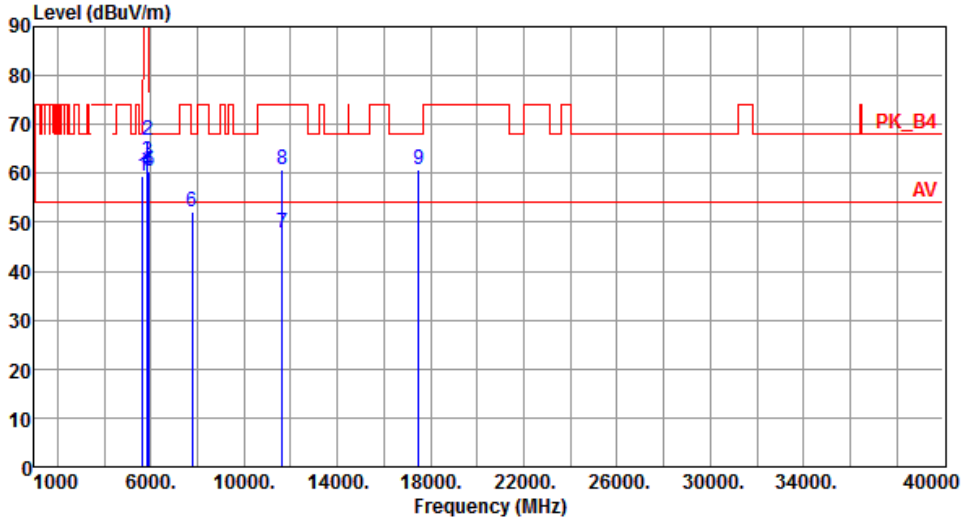
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	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	59.32	68.20	-8.88	53.41	5.91	Peak	100	51
2	5925.00	60.07	68.20	-8.13	53.25	6.82	Peak	100	51
3	11570.00	49.18	54.00	-4.82	33.88	15.30	Average	200	111
4	11570.00	62.50	74.00	-11.50	47.20	15.30	Peak	200	111
5	17355.00	59.83	68.20	-8.37	42.22	17.61	Peak	100	42

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

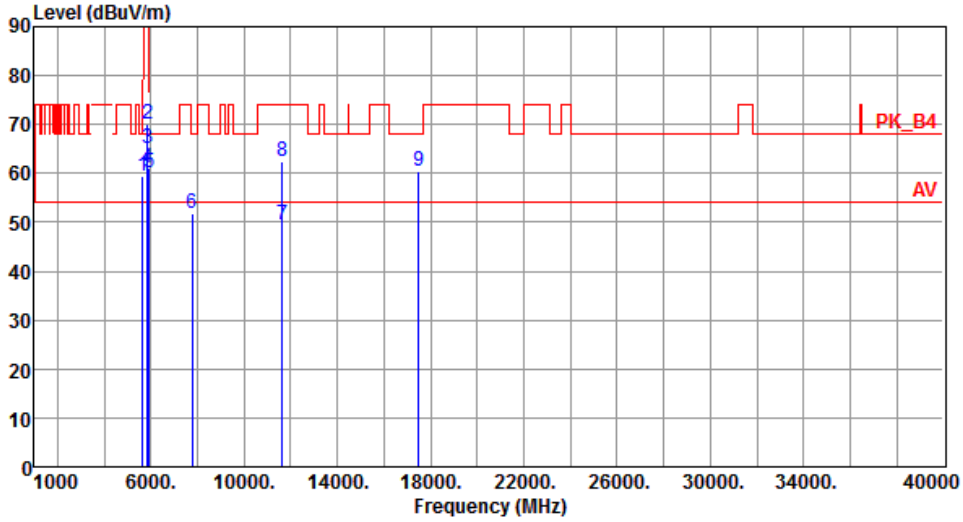
Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.36	68.20	-8.84	53.45	5.91	Peak	100	54
2	5850.00	66.92	122.20	-55.28	60.25	6.67	Peak	100	54
3	5855.00	62.39	110.80	-48.41	55.71	6.68	Peak	100	54
4	5875.00	60.46	105.20	-44.74	53.74	6.72	Peak	100	55
5	5925.00	60.52	68.20	-7.68	53.70	6.82	Peak	100	55
6	7766.66	52.26	68.20	-15.94	41.85	10.41	Peak	100	54
7	11650.00	47.76	54.00	-6.24	32.70	15.06	Average	205	125
8	11650.00	60.72	74.00	-13.28	45.66	15.06	Peak	205	125
9	17475.00	60.86	68.20	-7.34	42.63	18.23	Peak	100	75

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

Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Vertical		



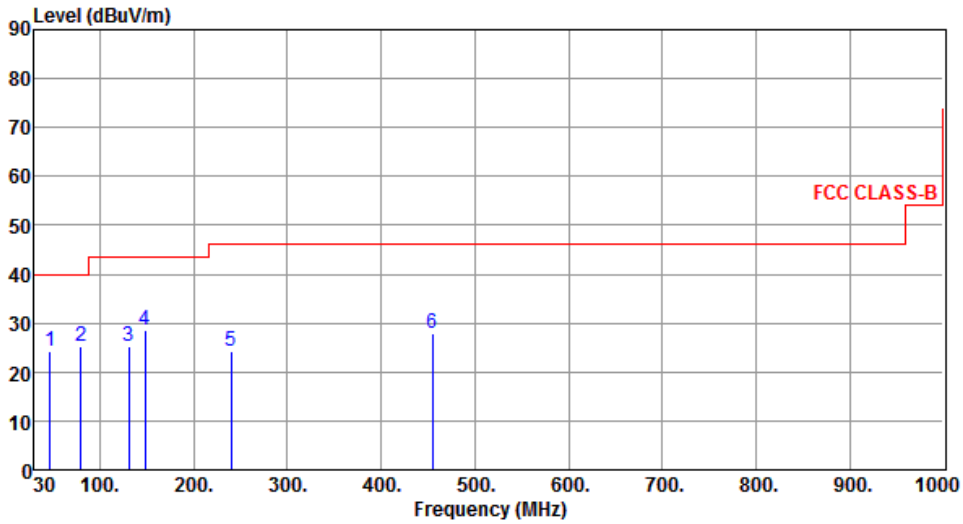
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.33	68.20	-8.87	53.42	5.91	Peak	100	52
2	5850.00	70.11	122.20	-52.09	63.44	6.67	Peak	100	52
3	5855.00	65.09	110.80	-45.71	58.41	6.68	Peak	100	52
4	5875.00	61.02	105.20	-44.18	54.30	6.72	Peak	100	52
5	5925.00	60.22	68.20	-7.98	53.40	6.82	Peak	100	52
6	7766.66	51.92	68.20	-16.28	41.51	10.41	Peak	100	62
7	11650.00	49.48	54.00	-4.52	34.42	15.06	Average	203	117
8	11650.00	62.46	74.00	-11.54	47.40	15.06	Peak	203	117
9	17475.00	60.53	68.20	-7.67	42.30	18.23	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (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 : Dipole antenna (Antenna No.8) , Y-plane

3.5.10 Transmitter Radiated Unwanted Emissions (Below 1GHz)

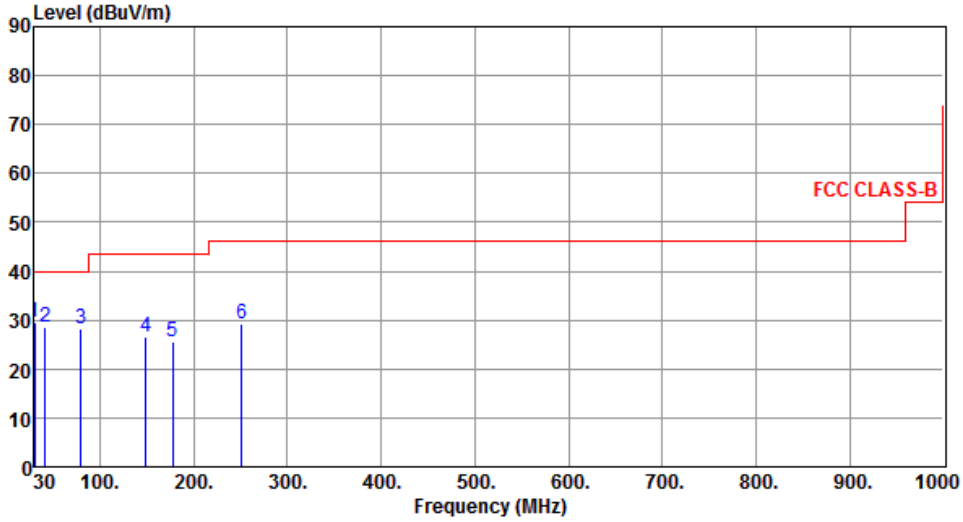
Modulation	11a	**Test Freq. (MHz)**	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.51	24.36	40.00	-15.64	33.01	-8.65	Peak	---	---
2	79.61	25.37	40.00	-14.63	38.62	-13.25	Peak	---	---
3	130.79	25.29	43.50	-18.21	35.38	-10.09	Peak	---	---
4	148.48	28.67	43.50	-14.83	37.50	-8.83	Peak	---	---
5	239.61	24.26	46.00	-21.74	34.70	-10.44	Peak	---	---
6	454.75	27.81	46.00	-18.19	31.92	-4.11	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.

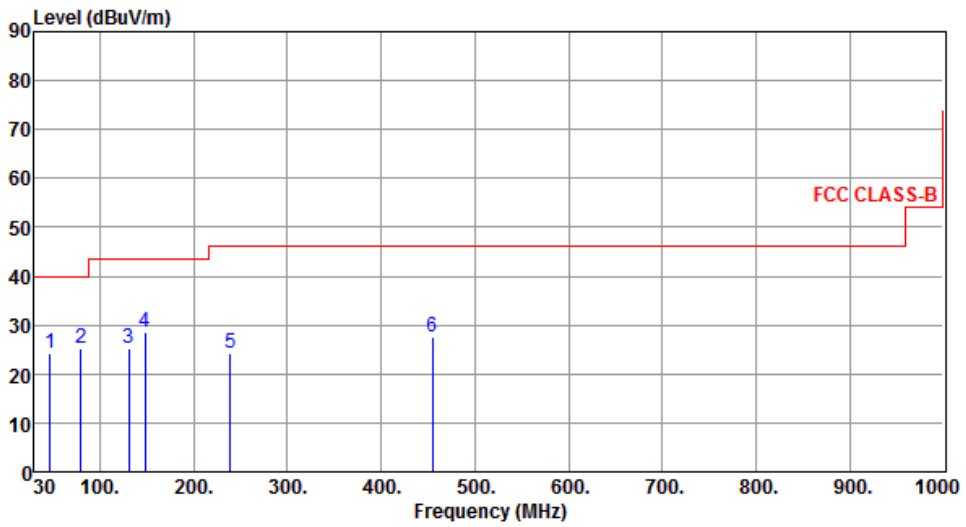
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.15	29.48	40.00	-10.52	39.63	-10.15	Peak	---	---
2	41.58	28.46	40.00	-11.54	37.59	-9.13	Peak	---	---
3	79.51	28.37	40.00	-11.63	41.60	-13.23	Peak	---	---
4	149.22	26.48	43.50	-17.02	35.31	-8.83	Peak	---	---
5	177.51	25.61	43.50	-17.89	35.57	-9.96	Peak	---	---
6	251.22	29.12	46.00	-16.88	39.19	-10.07	Peak	---	---

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

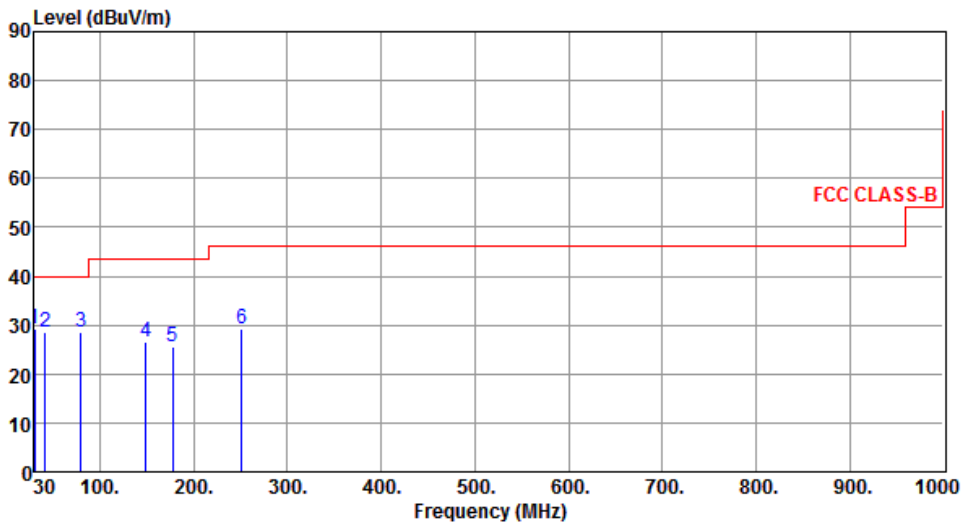
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.48	24.22	40.00	-15.78	32.87	-8.65	Peak	---	---
2	79.51	25.35	40.00	-14.65	38.58	-13.23	Peak	---	---
3	130.61	25.17	43.50	-18.33	35.28	-10.11	Peak	---	---
4	148.31	28.46	43.50	-15.04	37.29	-8.83	Peak	---	---
5	239.51	24.33	46.00	-21.67	34.78	-10.45	Peak	---	---
6	454.66	27.72	46.00	-18.28	31.84	-4.12	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	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

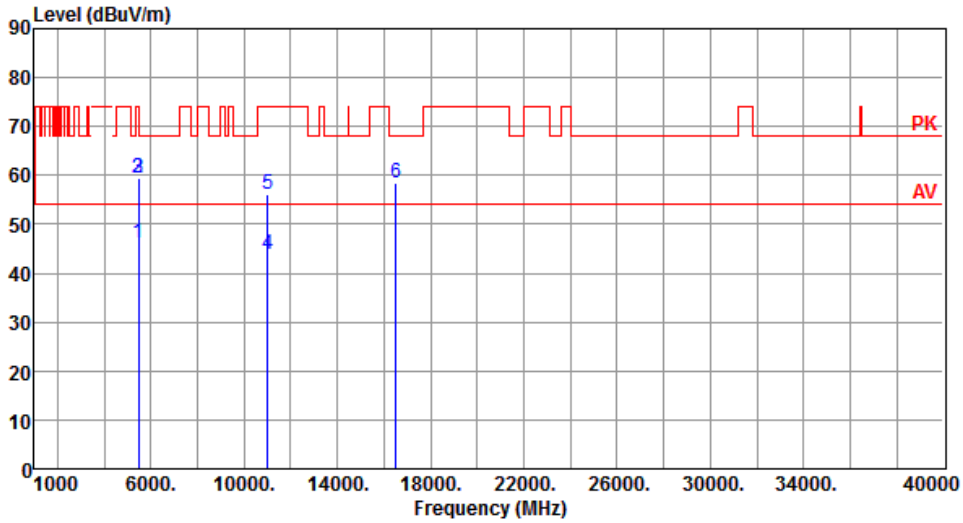


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.15	29.34	40.00	-10.66	39.49	-10.15	Peak	---	---
2	41.35	28.70	40.00	-11.30	37.88	-9.18	Peak	---	---
3	79.59	28.51	40.00	-11.49	41.76	-13.25	Peak	---	---
4	149.28	26.57	43.50	-16.93	35.40	-8.83	Peak	---	---
5	177.18	25.47	43.50	-18.03	35.40	-9.93	Peak	---	---
6	251.23	29.25	46.00	-16.75	39.32	-10.07	Peak	---	---

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

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

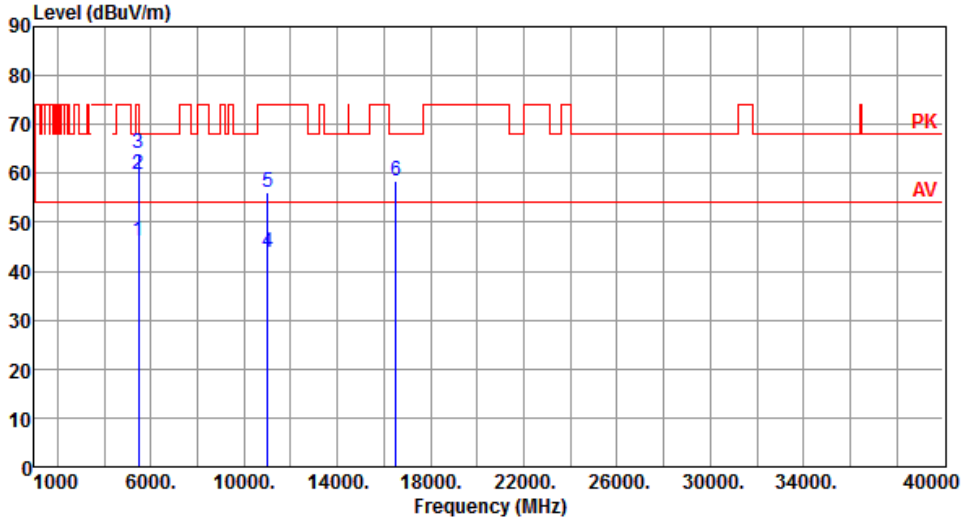
Modulation	11a	**Test Freq. (MHz)**	5500
Polarization	Horizontal		



	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	46.17	54.00	-7.83	40.25	5.92	Average	100	75
2	5460.00	59.52	74.00	-14.48	53.60	5.92	Peak	100	75
3	5470.00	59.52	68.20	-8.68	53.56	5.96	Peak	100	75
4	11000.00	43.89	54.00	-10.11	28.31	15.58	Average	100	90
5	11000.00	56.19	74.00	-17.81	40.61	15.58	Peak	100	90
6	16500.00	58.49	68.20	-9.71	42.66	15.83	Peak	100	50

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

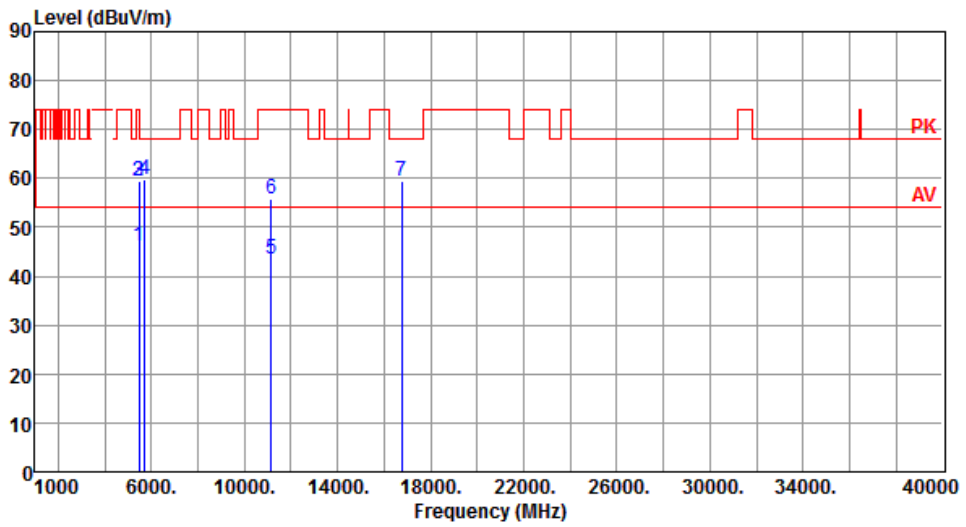
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	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	46.32	54.00	-7.68	40.40	5.92	Average	245	225
2	5460.00	59.76	74.00	-14.24	53.84	5.92	Peak	245	225
3	5470.00	64.08	68.20	-4.12	58.12	5.96	Peak	245	225
4	11000.00	43.80	54.00	-10.20	28.22	15.58	Average	100	25
5	11000.00	56.04	74.00	-17.96	40.46	15.58	Peak	100	25
6	16500.00	58.44	68.20	-9.76	42.61	15.83	Peak	100	30

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

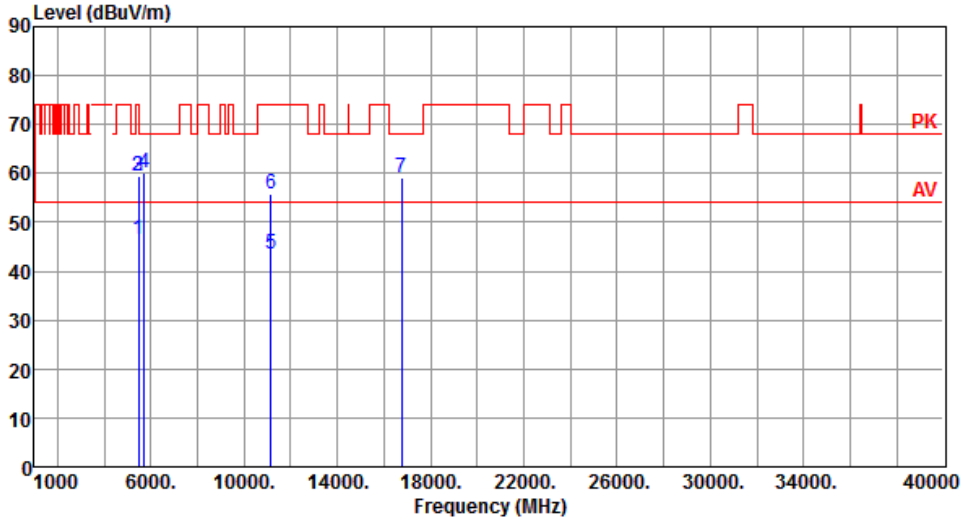
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	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	46.12	54.00	-7.88	40.20	5.92	Average	106	74
2	5460.00	59.45	74.00	-14.55	53.53	5.92	Peak	106	74
3	5470.00	59.40	68.20	-8.80	53.44	5.96	Peak	106	74
4	5725.00	59.90	68.20	-8.30	53.61	6.29	Peak	106	74
5	11160.00	43.57	54.00	-10.43	28.31	15.26	Average	100	50
6	11160.00	55.79	74.00	-18.21	40.53	15.26	Peak	100	50
7	16740.00	59.40	68.20	-8.80	42.55	16.85	Peak	100	60

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

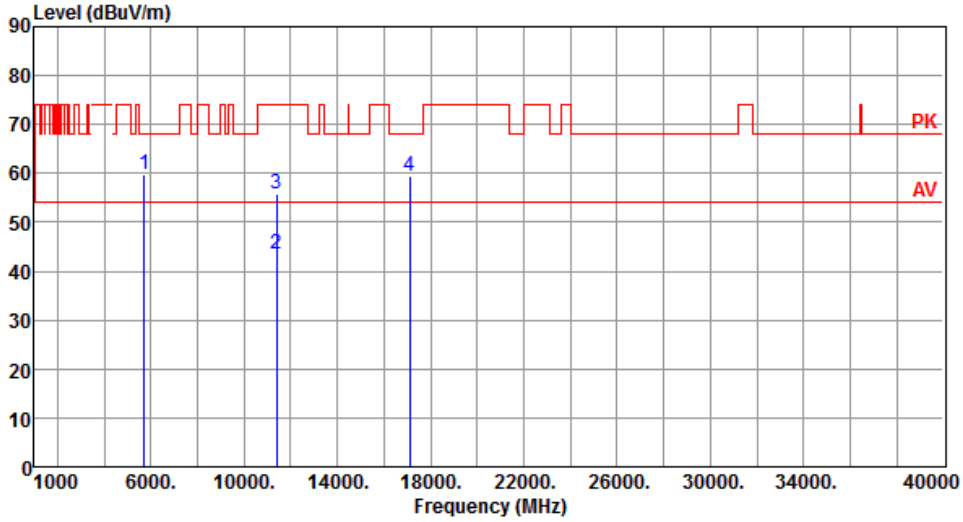
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	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	46.40	54.00	-7.60	40.48	5.92	Average	250	230
2	5460.00	59.52	74.00	-14.48	53.60	5.92	Peak	250	230
3	5470.00	59.51	68.20	-8.69	53.55	5.96	Peak	250	230
4	5725.00	60.03	68.20	-8.17	53.74	6.29	Peak	250	230
5	11160.00	43.48	54.00	-10.52	28.22	15.26	Average	100	30
6	11160.00	55.72	74.00	-18.28	40.46	15.26	Peak	100	30
7	16740.00	59.21	68.20	-8.99	42.36	16.85	Peak	100	50

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

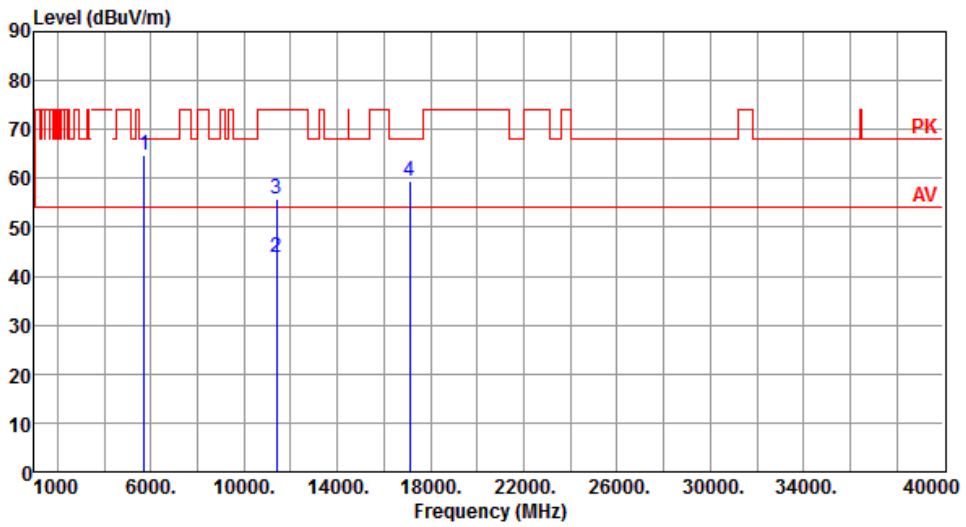
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	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	59.83	68.20	-8.37	53.54	6.29	Peak	106	79
2	11400.00	43.54	54.00	-10.46	28.21	15.33	Average	100	60
3	11400.00	55.92	74.00	-18.08	40.59	15.33	Peak	100	60
4	17100.00	59.33	68.20	-8.87	42.44	16.89	Peak	100	70

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

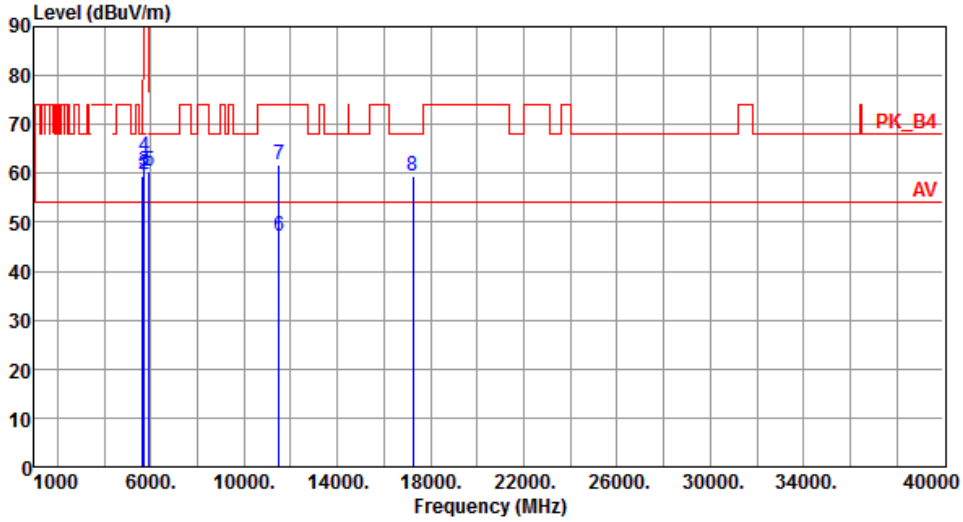
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	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	64.60	68.20	-3.60	58.31	6.29	Peak	252	229
2	11400.00	43.67	54.00	-10.33	28.34	15.33	Average	100	30
3	11400.00	55.87	74.00	-18.13	40.54	15.33	Peak	100	30
4	17100.00	59.50	68.20	-8.70	42.61	16.89	Peak	100	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).

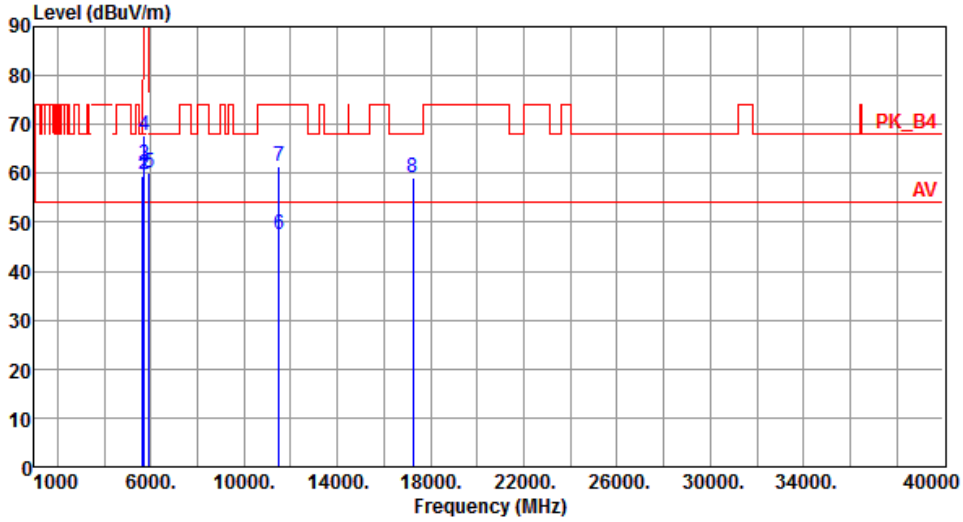
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	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	59.46	68.20	-8.74	53.55	5.91	Peak	105	78
2	5700.00	59.79	105.20	-45.41	53.56	6.23	Peak	105	78
3	5720.00	60.43	110.80	-50.37	54.15	6.28	Peak	105	78
4	5725.00	63.47	122.20	-58.73	57.18	6.29	Peak	105	78
5	5925.00	60.37	68.20	-7.83	53.55	6.82	Peak	105	78
6	11490.00	47.21	54.00	-6.79	31.76	15.45	Average	179	86
7	11490.00	61.68	74.00	-12.32	46.23	15.45	Peak	179	86
8	17235.00	59.44	68.20	-8.76	42.46	16.98	Peak	100	30

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

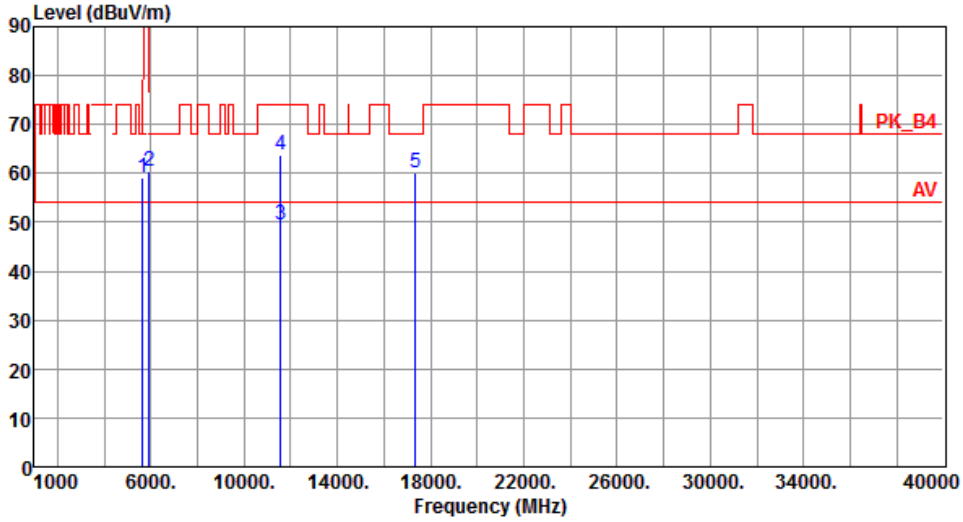
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	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	59.40	68.20	-8.80	53.49	5.91	Peak	250	236
2	5700.00	59.82	105.20	-45.38	53.59	6.23	Peak	25	236
3	5720.00	61.76	110.80	-49.04	55.48	6.28	Peak	250	236
4	5725.00	67.82	122.20	-54.38	61.53	6.29	Peak	250	236
5	5925.00	60.13	68.20	-8.07	53.31	6.82	Peak	250	236
6	11490.00	47.58	54.00	-6.42	32.13	15.45	Average	100	61
7	11490.00	61.57	74.00	-12.43	46.12	15.45	Peak	100	61
8	17235.00	59.27	68.20	-8.93	42.29	16.98	Peak	100	40

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

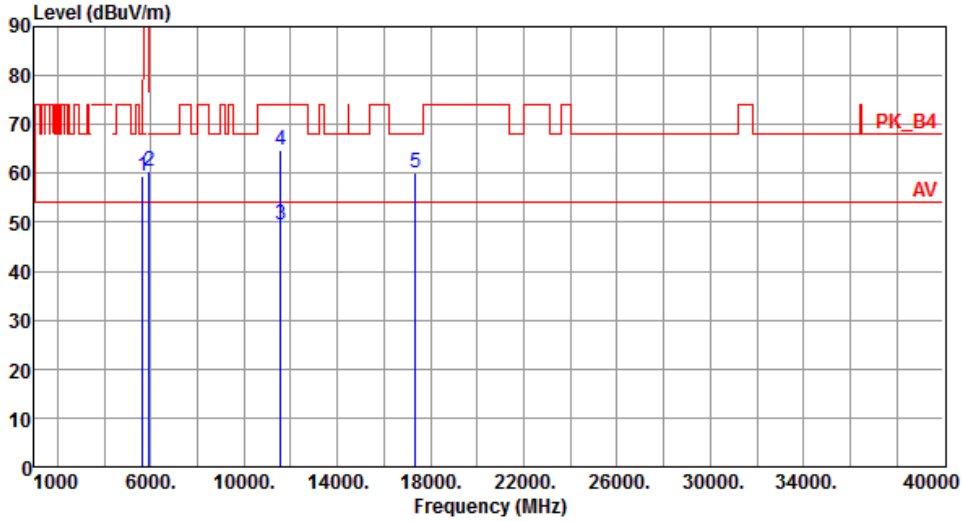
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	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	59.06	68.20	-9.14	53.15	5.91	Peak	105	79
2	5925.00	60.30	68.20	-7.90	53.48	6.82	Peak	105	79
3	11570.00	49.35	54.00	-4.65	34.05	15.30	Average	180	79
4	11570.00	63.83	74.00	-10.17	48.53	15.30	Peak	180	79
5	17355.00	59.95	68.20	-8.25	42.34	17.61	Peak	100	60

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

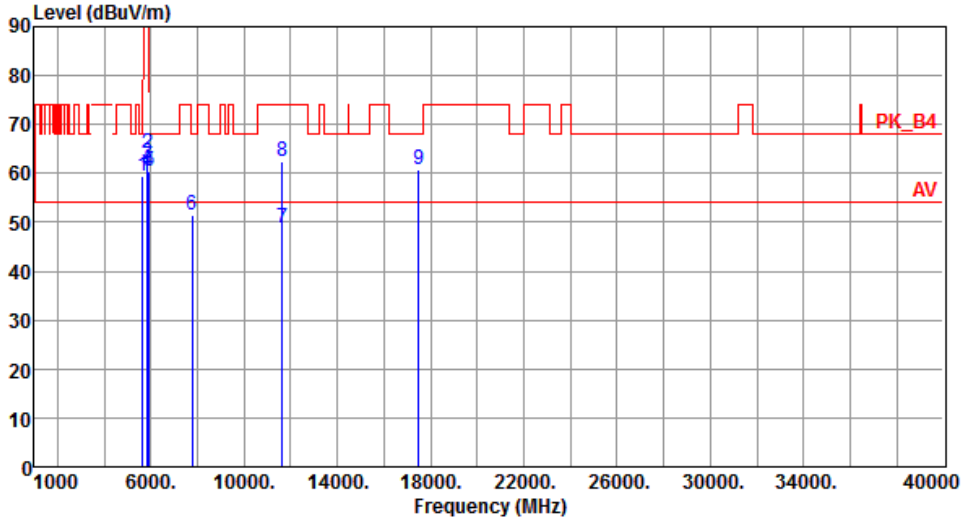
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	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	59.31	68.20	-8.89	53.40	5.91	Peak	245	236
2	5925.00	60.43	68.20	-7.77	53.61	6.82	Peak	245	236
3	11570.00	49.52	54.00	-4.48	34.22	15.30	Average	100	60
4	11570.00	64.61	74.00	-9.39	49.31	15.30	Peak	100	60
5	17355.00	60.05	68.20	-8.15	42.44	17.61	Peak	100	20

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

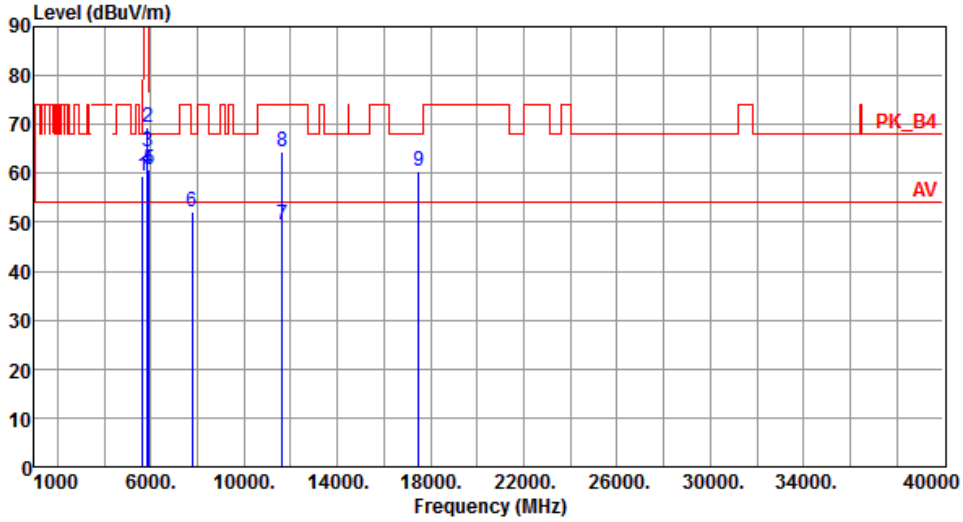
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.52	68.20	-8.68	53.61	5.91	Peak	100	78
2	5850.00	64.23	122.20	-57.97	57.56	6.67	Peak	100	78
3	5855.00	61.99	110.80	-48.81	55.31	6.68	Peak	100	78
4	5875.00	60.56	105.20	-44.64	53.84	6.72	Peak	100	78
5	5925.00	60.43	68.20	-7.77	53.61	6.82	Peak	100	78
6	7766.66	51.62	68.20	-16.58	41.21	10.41	Peak	100	55
7	11650.00	48.90	54.00	-5.10	33.84	15.06	Average	179	87
8	11650.00	62.27	74.00	-11.73	47.21	15.06	Peak	179	87
9	17475.00	60.71	68.20	-7.49	42.48	18.23	Peak	100	60

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

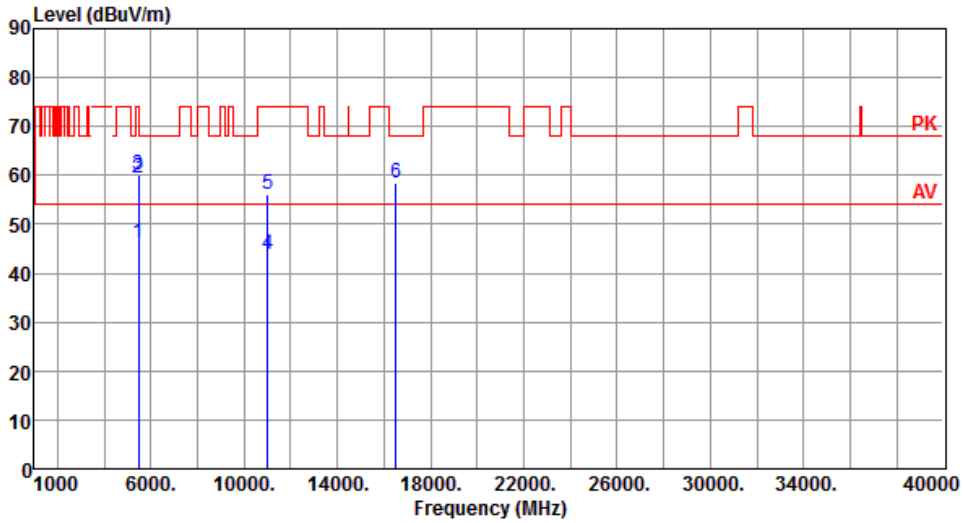


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.35	68.20	-8.85	53.44	5.91	Peak	245	232
2	5850.00	69.46	122.20	-52.74	62.79	6.67	Peak	245	232
3	5855.00	64.34	110.80	-46.46	57.66	6.68	Peak	245	232
4	5875.00	60.91	105.20	-44.29	54.19	6.72	Peak	245	232
5	5925.00	60.67	68.20	-7.53	53.85	6.82	Peak	245	232
6	7766.66	52.02	68.20	-16.18	41.61	10.41	Peak	100	90
7	11650.00	49.39	54.00	-4.61	34.33	15.06	Average	100	70
8	11650.00	64.27	74.00	-9.73	49.21	15.06	Peak	100	70
9	17475.00	60.57	68.20	-7.63	42.34	18.23	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (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 HT20

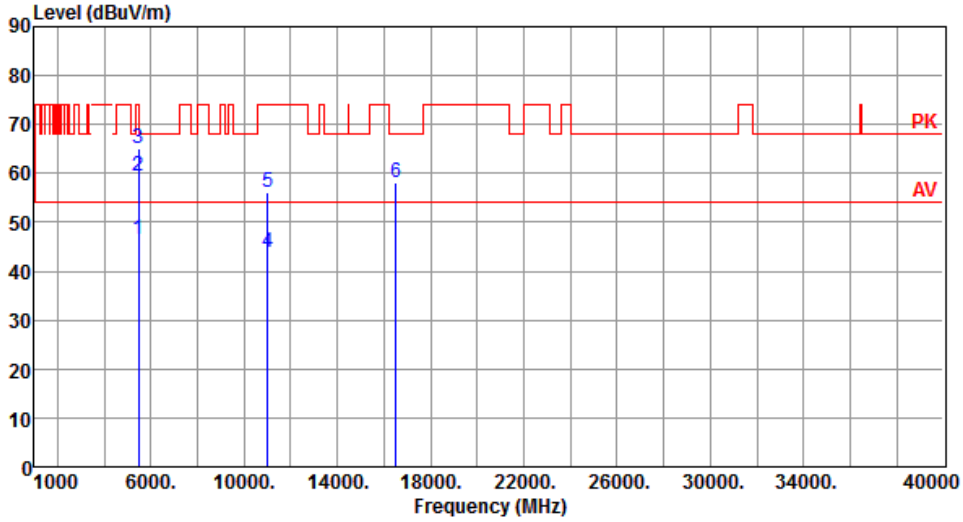
Modulation	HT20	**Test Freq. (MHz)**	5500
Polarization	Horizontal		



	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	46.26	54.00	-7.74	40.34	5.92	Average	100	78
2	5460.00	59.37	74.00	-14.63	53.45	5.92	Peak	100	78
3	5470.00	60.15	68.20	-8.05	54.19	5.96	Peak	100	78
4	11000.00	43.85	54.00	-10.15	28.27	15.58	Average	100	60
5	11000.00	56.09	74.00	-17.91	40.51	15.58	Peak	100	60
6	16500.00	58.40	68.20	-9.80	42.57	15.83	Peak	100	30

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

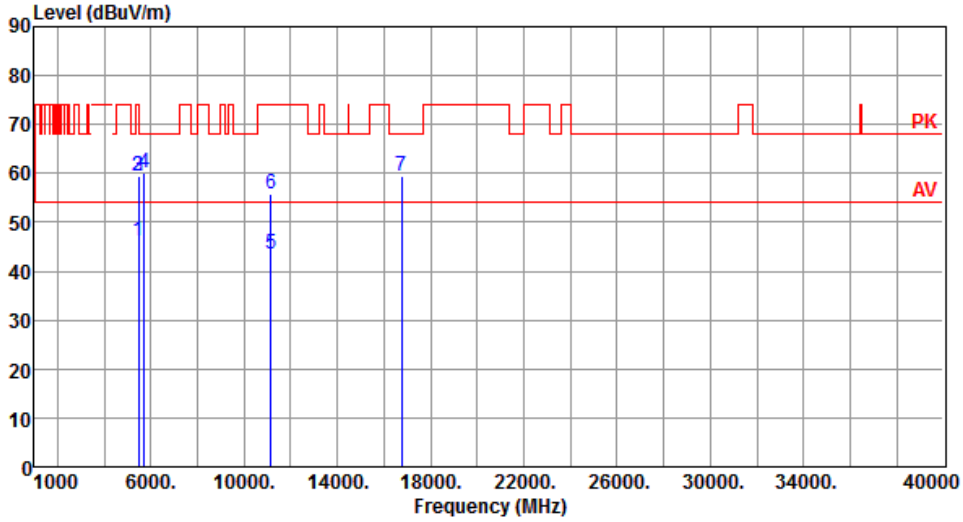
Modulation	HT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.33	54.00	-7.67	40.41	5.92	Average	250	225
2	5460.00	59.47	74.00	-14.53	53.55	5.92	Peak	250	225
3	5470.00	65.14	68.20	-3.06	59.18	5.96	Peak	250	225
4	11000.00	43.83	54.00	-10.17	28.25	15.58	Average	100	80
5	11000.00	56.11	74.00	-17.89	40.53	15.58	Peak	100	80
6	16500.00	58.27	68.20	-9.93	42.44	15.83	Peak	100	55

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

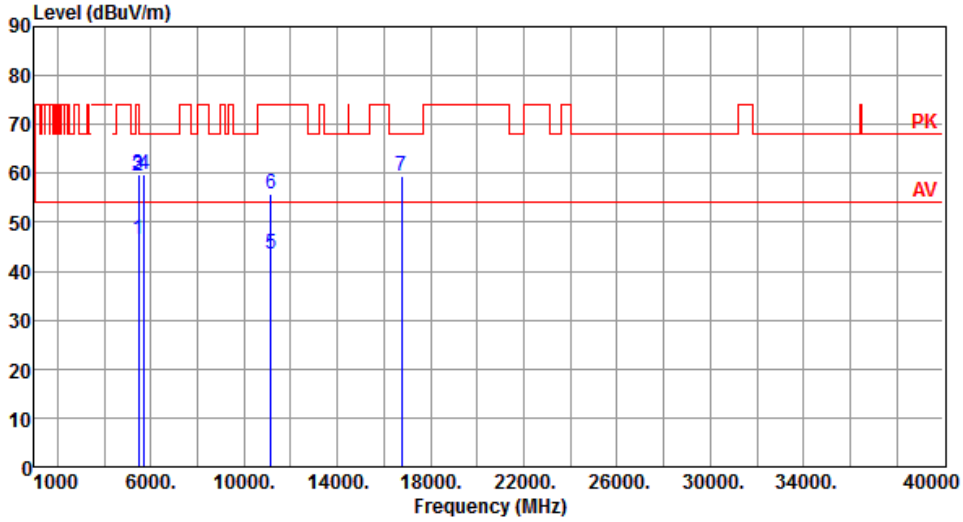
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.29	54.00	-7.71	40.37	5.92	Average	100	69
2	5460.00	59.42	74.00	-14.58	53.50	5.92	Peak	100	69
3	5470.00	59.57	68.20	-8.63	53.61	5.96	Peak	100	69
4	5725.00	59.98	68.20	-8.22	53.69	6.29	Peak	100	69
5	11160.00	43.50	54.00	-10.50	28.24	15.26	Average	100	50
6	11160.00	55.87	74.00	-18.13	40.61	15.26	Peak	100	50
7	16740.00	59.50	68.20	-8.70	42.65	16.85	Peak	100	40

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

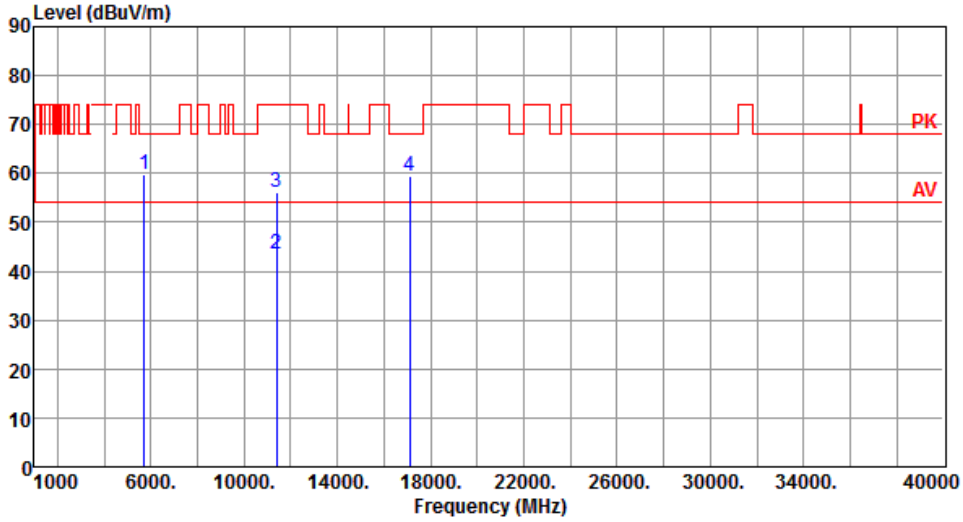
Modulation	HT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	46.44	54.00	-7.56	40.52	5.92	Average	249	230
2	5460.00	59.52	74.00	-14.48	53.60	5.92	Peak	249	230
3	5470.00	59.62	68.20	-8.58	53.66	5.96	Peak	249	230
4	5725.00	59.90	68.20	-8.30	53.61	6.29	Peak	249	230
5	11160.00	43.57	54.00	-10.43	28.31	15.26	Average	100	30
6	11160.00	55.83	74.00	-18.17	40.57	15.26	Peak	100	30
7	16740.00	59.32	68.20	-8.88	42.47	16.85	Peak	100	10

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

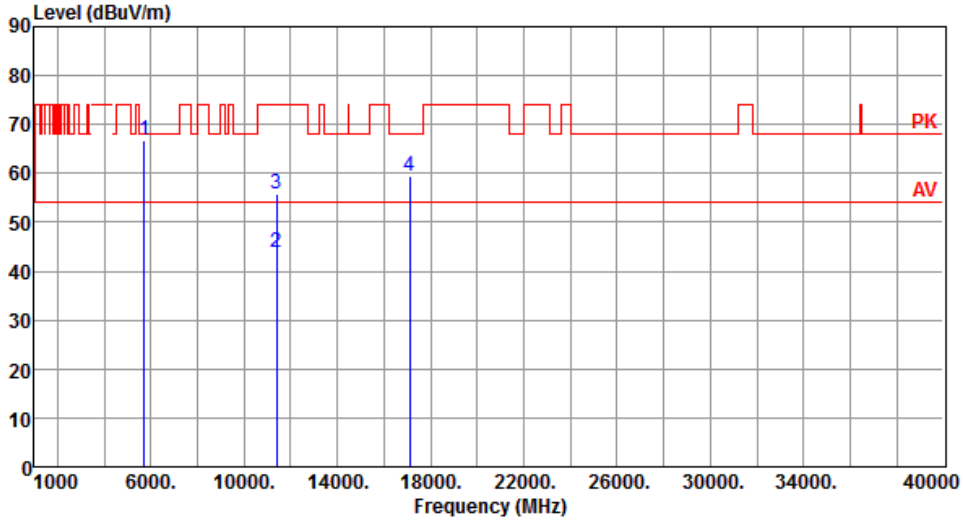
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	59.70	68.20	-8.50	53.41	6.29	Peak	100	77
2	11400.00	43.55	54.00	-10.45	28.22	15.33	Average	100	55
3	11400.00	56.02	74.00	-17.98	40.69	15.33	Peak	100	55
4	17100.00	59.57	68.20	-8.63	42.68	16.89	Peak	100	70

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

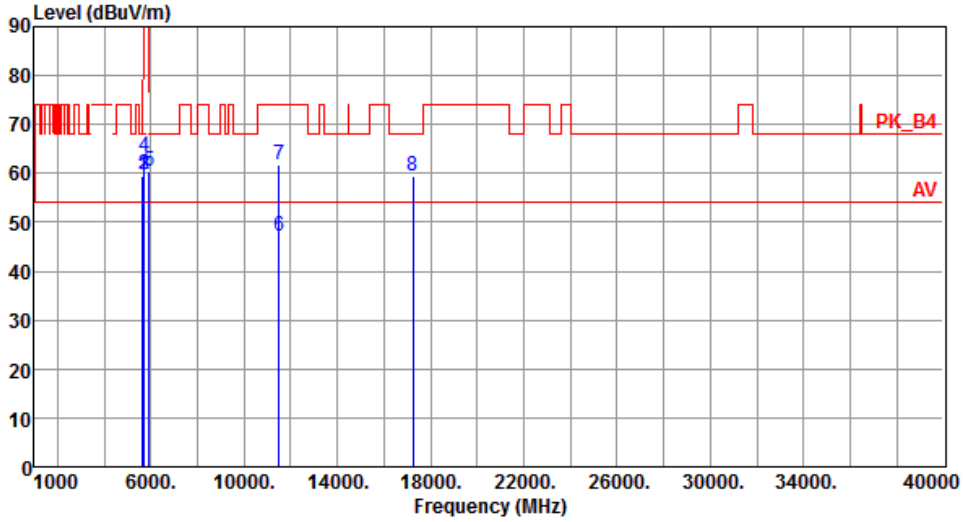
Modulation	HT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	66.75	68.20	-1.45	60.46	6.29	Peak	243	232
2	11400.00	43.68	54.00	-10.32	28.35	15.33	Average	100	60
3	11400.00	55.90	74.00	-18.10	40.57	15.33	Peak	100	60
4	17100.00	59.46	68.20	-8.74	42.57	16.89	Peak	100	40

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

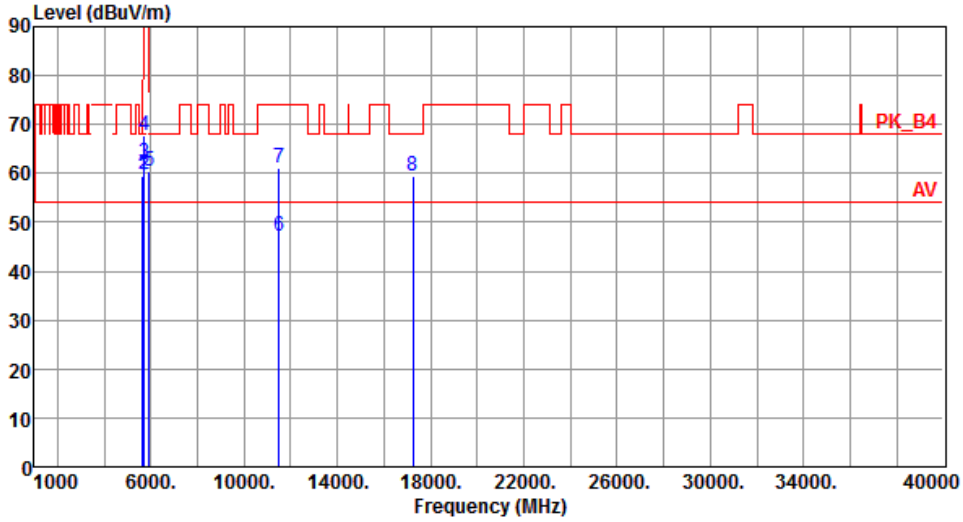
Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	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	59.52	68.20	-8.68	53.61	5.91	Peak	100	75
2	5700.00	59.92	105.20	-45.28	53.69	6.23	Peak	100	75
3	5720.00	59.82	110.80	-50.98	53.54	6.28	Peak	100	75
4	5725.00	63.50	122.20	-58.70	57.21	6.29	Peak	100	75
5	5925.00	60.43	68.20	-7.77	53.61	6.82	Peak	100	75
6	11490.00	47.11	54.00	-6.89	31.66	15.45	Average	185	86
7	11490.00	61.77	74.00	-12.23	46.32	15.45	Peak	185	86
8	17235.00	59.44	68.20	-8.76	42.46	16.98	Peak	100	20

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

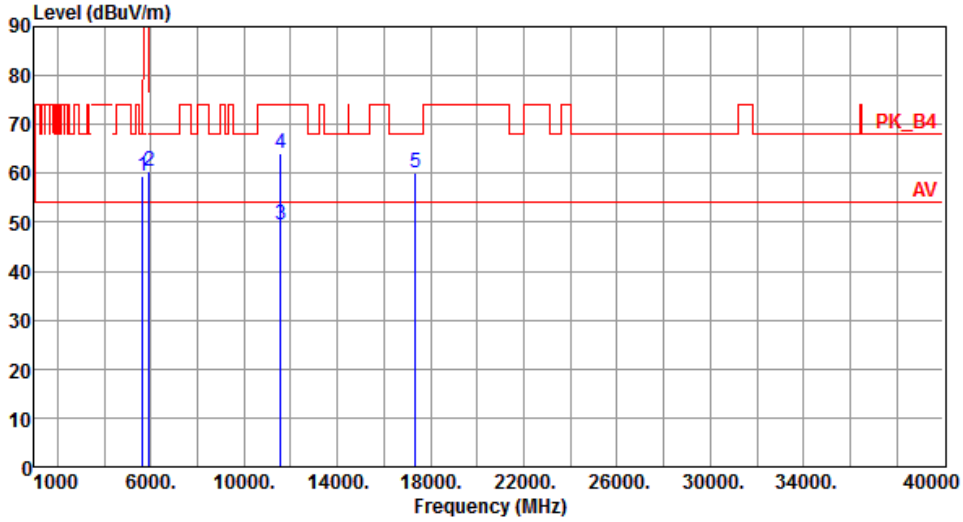
Modulation	HT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	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	59.46	68.20	-8.74	53.55	5.91	Peak	245	240
2	5700.00	59.84	105.20	-45.36	53.61	6.23	Peak	245	240
3	5720.00	61.95	110.80	-48.85	55.67	6.28	Peak	245	240
4	5725.00	67.71	122.20	-54.49	61.42	6.29	Peak	245	240
5	5925.00	60.49	68.20	-7.71	53.67	6.82	Peak	245	240
6	11490.00	47.23	54.00	-6.77	31.78	15.45	Average	100	65
7	11490.00	61.23	74.00	-12.77	45.78	15.45	Peak	100	65
8	17235.00	59.29	68.20	-8.91	42.31	16.98	Peak	100	30

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

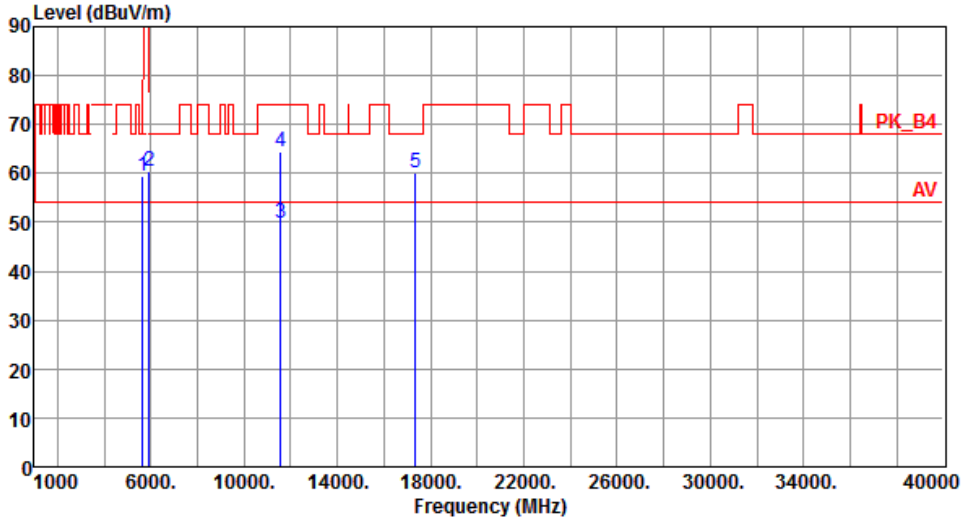
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	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	59.49	68.20	-8.71	53.58	5.91	Peak	105	83
2	5925.00	60.36	68.20	-7.84	53.54	6.82	Peak	105	83
3	11570.00	49.48	54.00	-4.52	34.18	15.30	Average	175	82
4	11570.00	64.17	74.00	-9.83	48.87	15.30	Peak	178	82
5	17355.00	60.01	68.20	-8.19	42.40	17.61	Peak	100	55

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

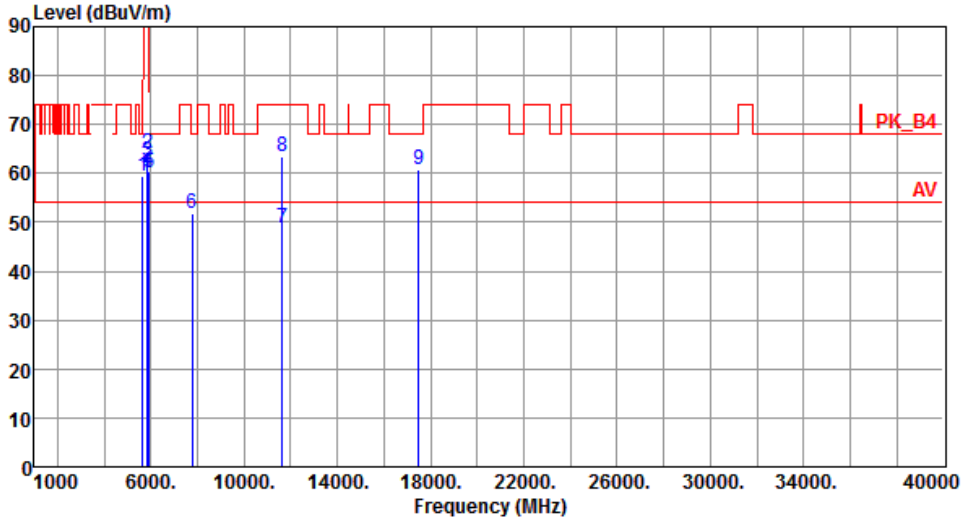
Modulation	HT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	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	59.55	68.20	-8.65	53.64	5.91	Peak	250	236
2	5925.00	60.40	68.20	-7.80	53.58	6.82	Peak	250	236
3	11570.00	49.91	54.00	-4.09	34.61	15.30	Average	100	60
4	11570.00	64.51	74.00	-9.49	49.21	15.30	Peak	100	60
5	17355.00	60.08	68.20	-8.12	42.47	17.61	Peak	100	30

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

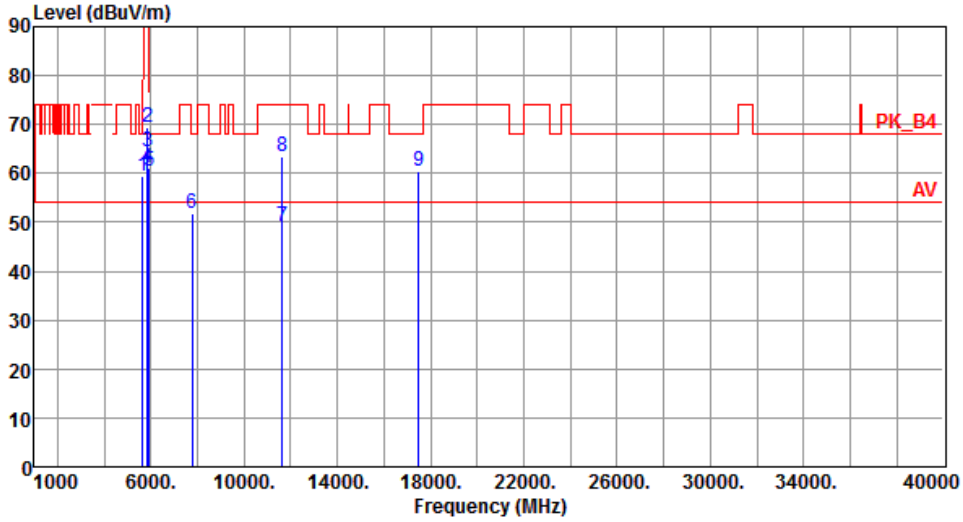
Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.37	68.20	-8.83	53.46	5.91	Peak	100	80
2	5850.00	63.98	122.20	-58.22	57.31	6.67	Peak	100	80
3	5855.00	62.36	110.80	-48.44	55.68	6.68	Peak	100	80
4	5875.00	60.57	105.20	-44.63	53.85	6.72	Peak	100	80
5	5925.00	60.24	68.20	-7.96	53.42	6.82	Peak	100	80
6	7766.66	51.72	68.20	-16.48	41.31	10.41	Peak	100	55
7	11650.00	48.85	54.00	-5.15	33.79	15.06	Average	181	86
8	11650.00	63.27	74.00	-10.73	48.21	15.06	Peak	181	86
9	17475.00	60.64	68.20	-7.56	42.41	18.23	Peak	100	30

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

Modulation	HT20	Test Freq. (MHz)	5825
Polarization	Vertical		



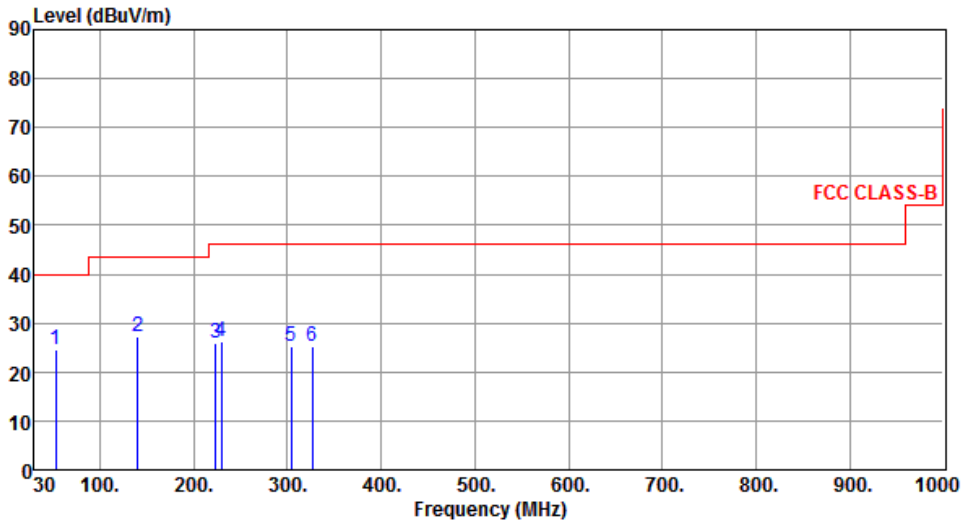
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.48	68.20	-8.72	53.57	5.91	Peak	240	236
2	5850.00	69.51	122.20	-52.69	62.84	6.67	Peak	240	236
3	5855.00	64.44	110.80	-46.36	57.76	6.68	Peak	240	236
4	5875.00	61.03	105.20	-44.17	54.31	6.72	Peak	240	236
5	5925.00	60.47	68.20	-7.73	53.65	6.82	Peak	240	236
6	7766.66	51.76	68.20	-16.44	41.35	10.41	Peak	100	70
7	11650.00	49.27	54.00	-4.73	34.21	15.06	Average	100	80
8	11650.00	63.59	74.00	-10.41	48.53	15.06	Peak	100	80
9	17475.00	60.46	68.20	-7.74	42.23	18.23	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (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 4: Dipole antenna (Antenna No.1), Y-plane.

3.5.13 Transmitter Radiated Unwanted Emissions (Below 1GHz)

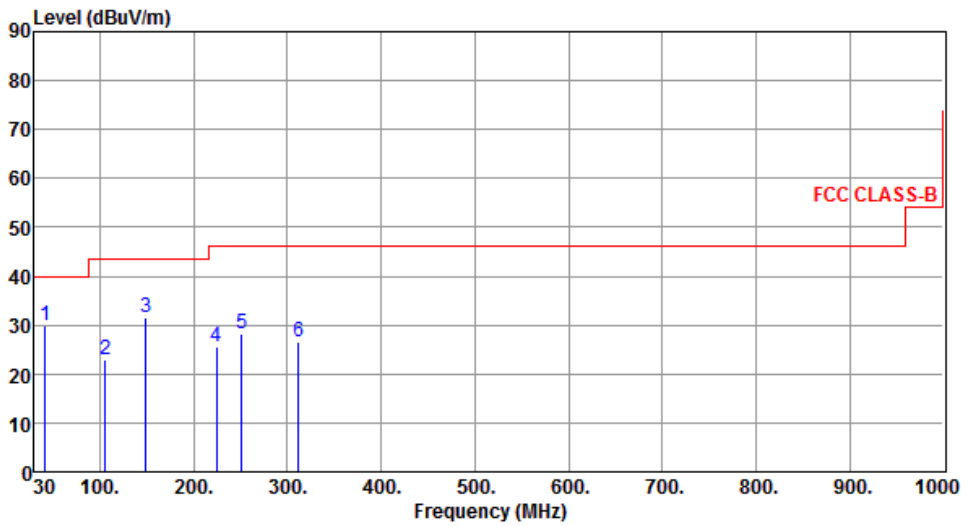
Modulation	11a	**Test Freq. (MHz)**	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	52.45	24.71	40.00	-15.29	33.49	-8.78	Peak	---	---
2	140.58	27.20	43.50	-16.30	36.48	-9.28	Peak	---	---
3	223.12	25.81	46.00	-20.19	38.13	-12.32	Peak	---	---
4	229.77	26.38	46.00	-19.62	38.05	-11.67	Peak	---	---
5	304.49	25.31	46.00	-20.69	33.67	-8.36	Peak	---	---
6	326.77	25.38	46.00	-20.62	32.88	-7.50	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	11a	Test Freq. (MHz)	5240
Polarization	Vertical		

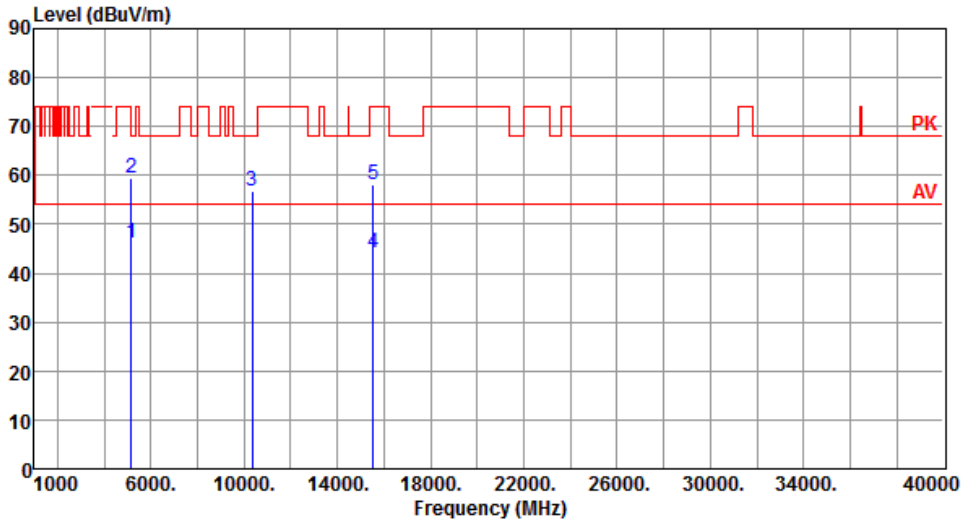


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	41.64	29.74	40.00	-10.26	38.86	-9.12	Peak	---	---
2	105.55	22.79	43.50	-20.71	35.56	-12.77	Peak	---	---
3	149.22	31.51	43.50	-11.99	40.34	-8.83	Peak	---	---
4	224.12	25.71	46.00	-20.29	38.05	-12.34	Peak	---	---
5	251.22	28.19	46.00	-17.81	38.26	-10.07	Peak	---	---
6	312.27	26.51	46.00	-19.49	34.53	-8.02	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.

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

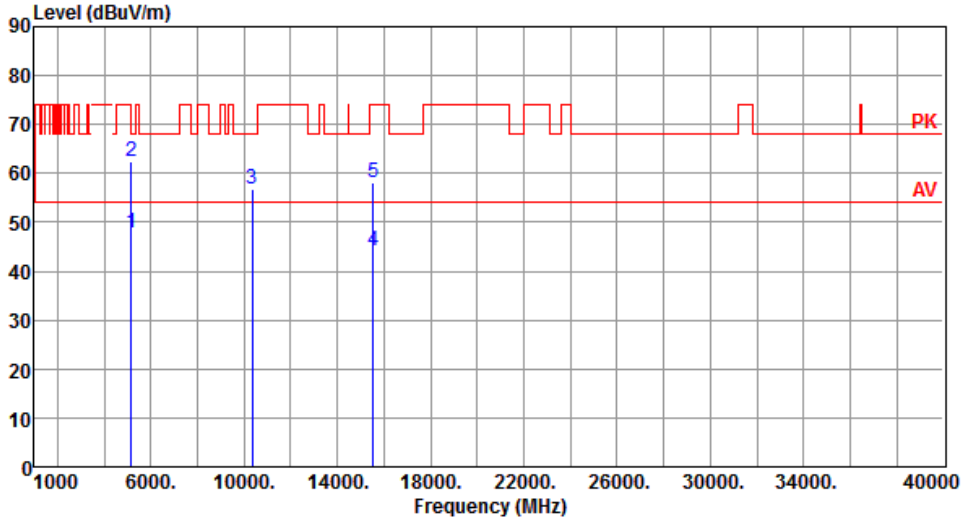
Modulation	11a	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	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	46.26	54.00	-7.74	40.31	5.95	Average	311	154
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	311	154
3	10360.00	56.65	68.20	-11.55	41.55	15.10	Peak	100	70
4	15540.00	44.30	54.00	-9.70	28.65	15.65	Average	100	30
5	15540.00	58.23	74.00	-15.77	42.58	15.65	Peak	100	30

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

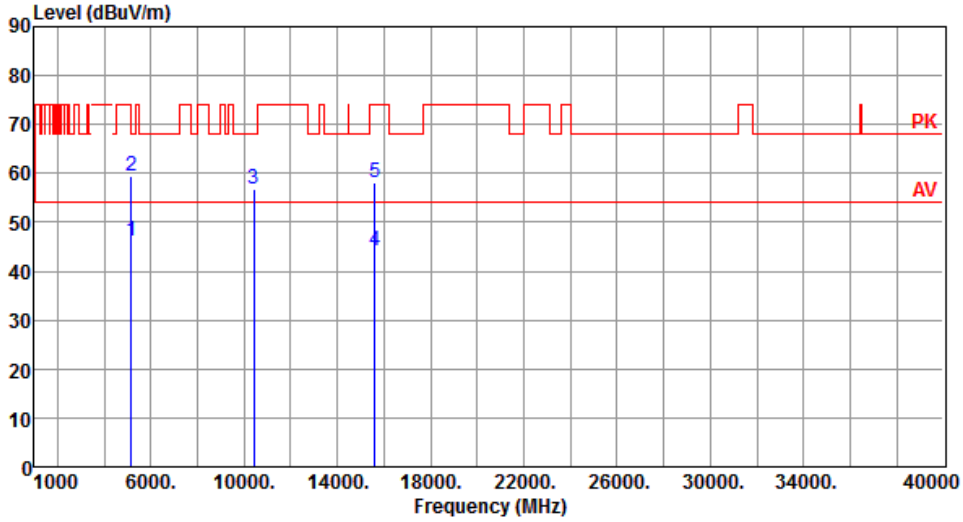
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	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	47.80	54.00	-6.20	41.85	5.95	Average	185	199
2	5150.00	62.44	74.00	-11.56	56.49	5.95	Peak	185	199
3	10360.00	56.71	68.20	-11.49	41.61	15.10	Peak	100	85
4	15540.00	44.20	54.00	-9.80	28.55	15.65	Average	100	25
5	15540.00	58.26	74.00	-15.74	42.61	15.65	Peak	100	25

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

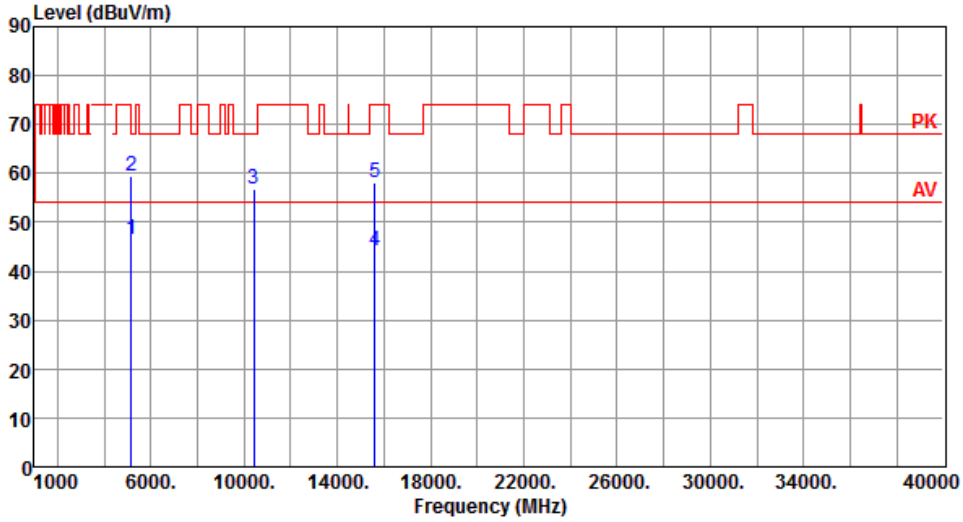
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	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	46.26	54.00	-7.74	40.31	5.95	Average	315	158
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	315	158
3	10400.00	56.87	68.20	-11.33	41.54	15.33	Peak	100	40
4	15600.00	44.05	54.00	-9.95	28.56	15.49	Average	100	50
5	15600.00	58.05	74.00	-15.95	42.56	15.49	Peak	100	50

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

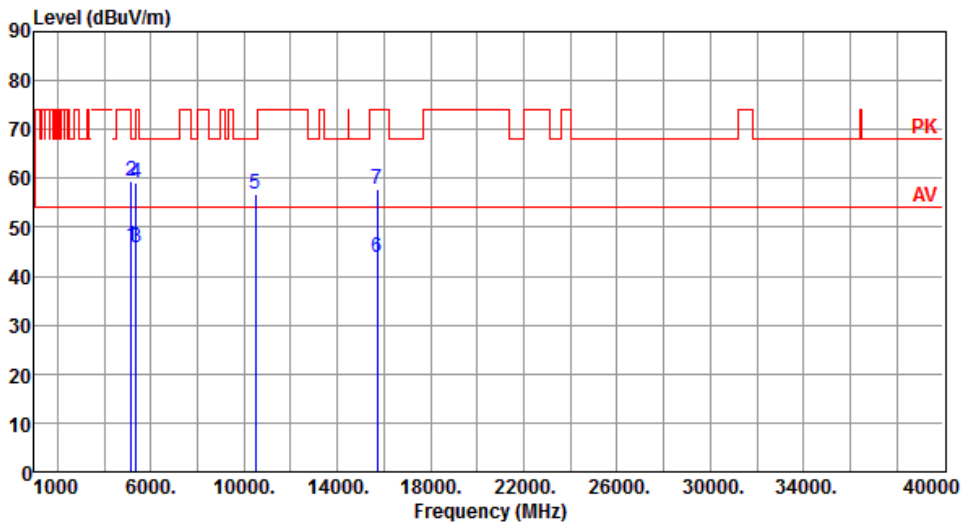
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	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	46.41	54.00	-7.59	40.46	5.95	Average	188	200
2	5150.00	59.54	74.00	-14.46	53.59	5.95	Peak	188	200
3	10400.00	56.94	68.20	-11.26	41.61	15.33	Peak	100	60
4	15600.00	44.06	54.00	-9.94	28.57	15.49	Average	100	70
5	15600.00	58.10	74.00	-15.90	42.61	15.49	Peak	100	70

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

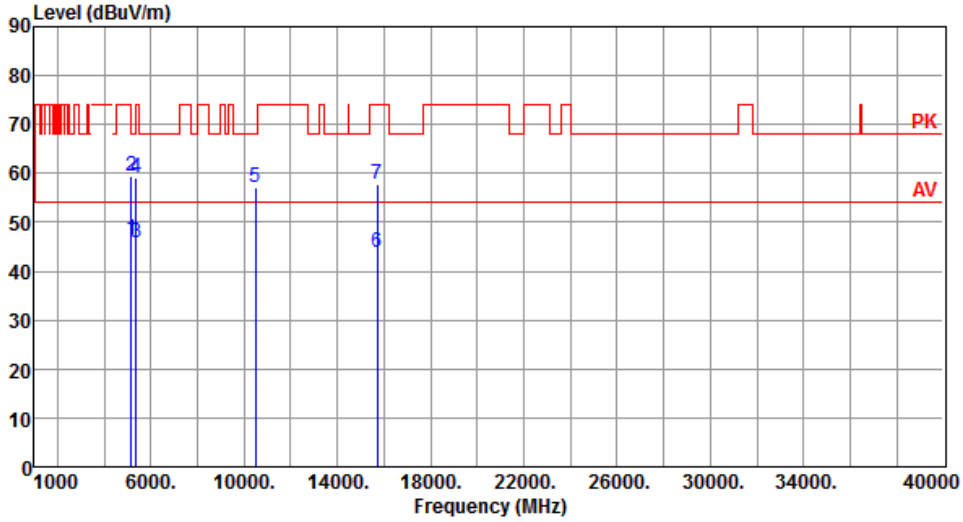
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	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	46.26	54.00	-7.74	40.31	5.95	Average	313	156
2	5150.00	59.29	74.00	-14.71	53.34	5.95	Peak	313	156
3	5350.00	45.82	54.00	-8.18	40.42	5.40	Average	313	156
4	5350.00	59.01	74.00	-14.99	53.61	5.40	Peak	313	156
5	10480.00	56.83	68.20	-11.37	41.52	15.31	Peak	100	50
6	15720.00	43.84	54.00	-10.16	28.61	15.23	Average	100	90
7	15720.00	57.74	74.00	-16.26	42.51	15.23	Peak	100	90

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

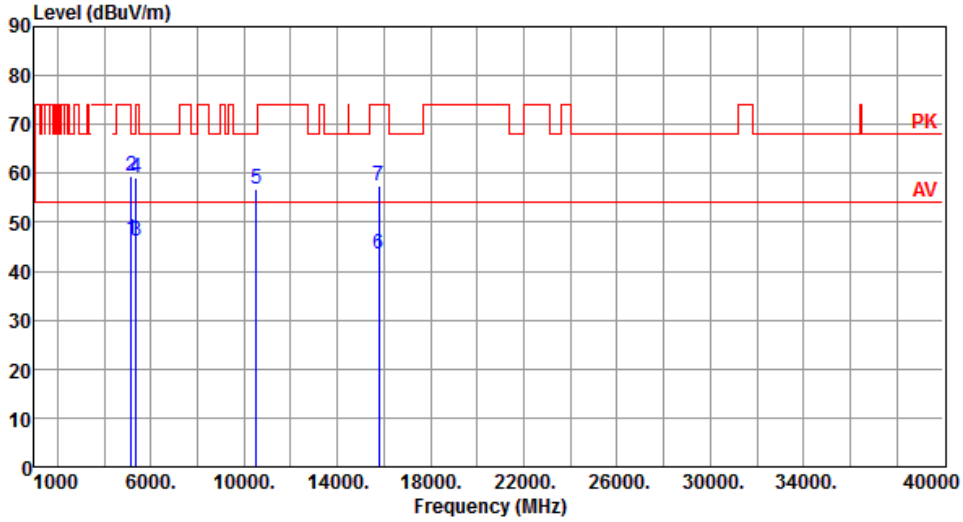
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	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	46.41	54.00	-7.59	40.46	5.95	Average	185	193
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	185	193
3	5350.00	45.71	54.00	-8.29	40.31	5.40	Average	185	193
4	5350.00	59.09	74.00	-14.91	53.69	5.40	Peak	185	193
5	10480.00	57.16	68.20	-11.04	41.85	15.31	Peak	100	30
6	15720.00	43.78	54.00	-10.22	28.55	15.23	Average	100	85
7	15720.00	57.69	74.00	-16.31	42.46	15.23	Peak	100	85

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

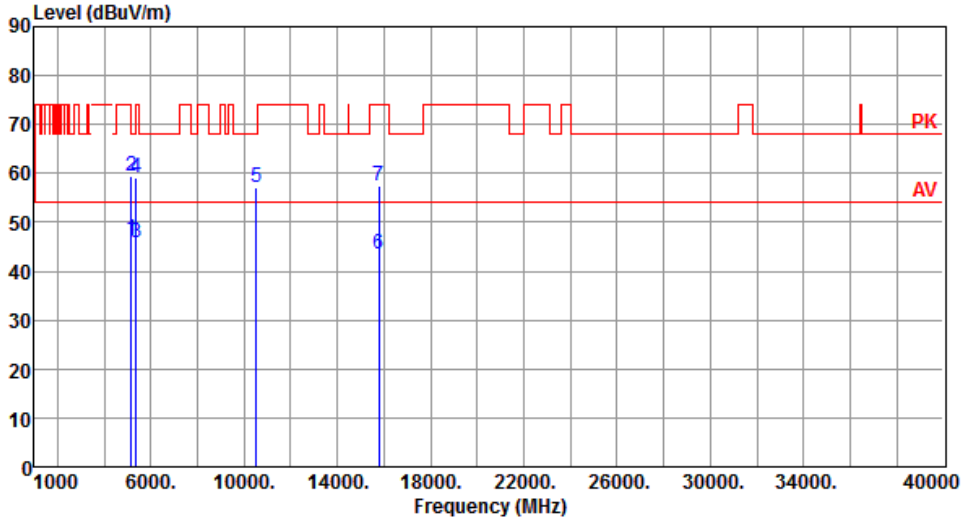
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	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	46.41	54.00	-7.59	40.46	5.95	Average	312	156
2	5150.00	59.51	74.00	-14.49	53.56	5.95	Peak	312	156
3	5350.00	46.01	54.00	-7.99	40.61	5.40	Average	312	156
4	5350.00	58.99	74.00	-15.01	53.59	5.40	Peak	312	156
5	10520.00	56.86	68.20	-11.34	41.53	15.33	Peak	100	70
6	15780.00	43.52	54.00	-10.48	28.57	14.95	Average	100	20
7	15780.00	57.56	74.00	-16.44	42.61	14.95	Peak	100	20

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

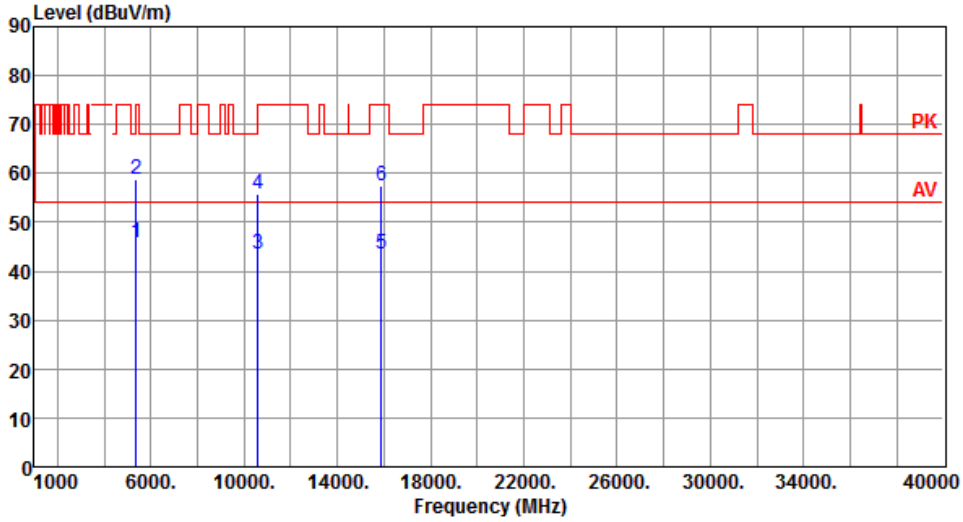
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	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	46.48	54.00	-7.52	40.53	5.95	Average	185	205
2	5150.00	59.41	74.00	-14.59	53.46	5.95	Peak	185	205
3	5350.00	45.91	54.00	-8.09	40.51	5.40	Average	185	203
4	5350.00	58.96	74.00	-15.04	53.56	5.40	Peak	185	203
5	10520.00	56.98	68.20	-11.22	41.65	15.33	Peak	100	60
6	15780.00	43.49	54.00	-10.51	28.54	14.95	Average	100	30
7	15780.00	57.41	74.00	-16.59	42.46	14.95	Peak	100	30

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

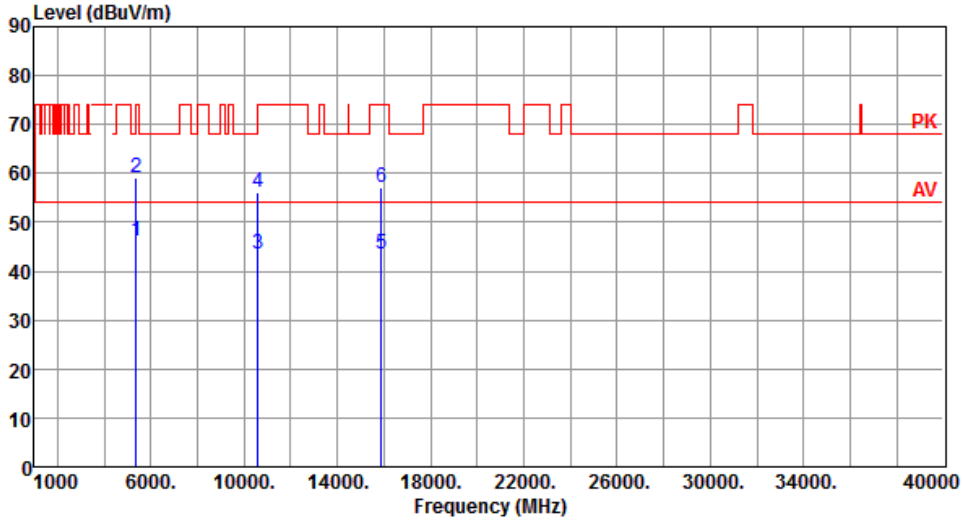
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	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	45.82	54.00	-8.18	40.42	5.40	Average	303	161
2	5350.00	58.87	74.00	-15.13	53.47	5.40	Peak	303	161
3	10600.00	43.64	54.00	-10.36	28.23	15.41	Average	100	70
4	10600.00	55.71	74.00	-18.29	40.30	15.41	Peak	100	70
5	15900.00	43.35	54.00	-10.65	28.46	14.89	Average	100	80
6	15900.00	57.30	74.00	-16.70	42.41	14.89	Peak	100	80

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

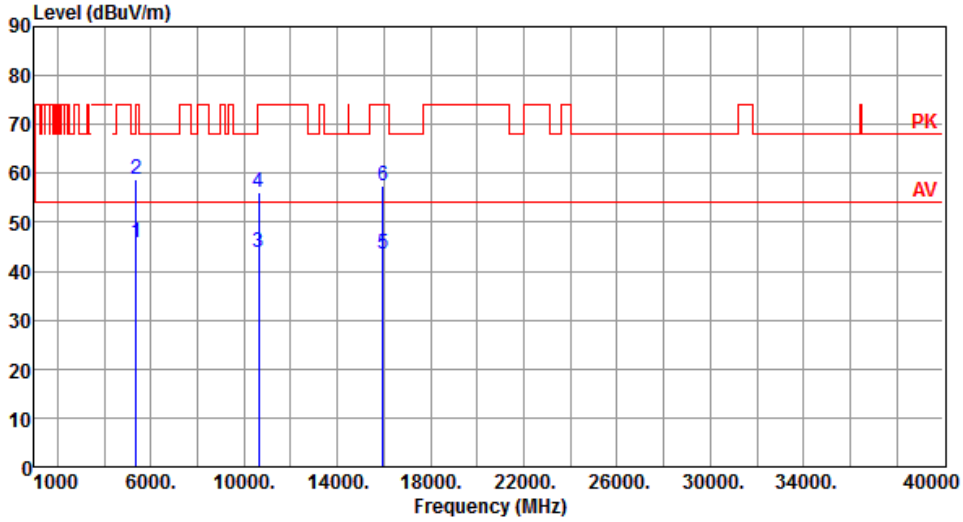
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	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	46.01	54.00	-7.99	40.61	5.40	Average	175	192
2	5350.00	59.01	74.00	-14.99	53.61	5.40	Peak	175	192
3	10600.00	43.61	54.00	-10.39	28.20	15.41	Average	100	40
4	10600.00	56.01	74.00	-17.99	40.60	15.41	Peak	100	40
5	15900.00	43.50	54.00	-10.50	28.61	14.89	Average	100	90
6	15900.00	57.20	74.00	-16.80	42.31	14.89	Peak	100	90

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

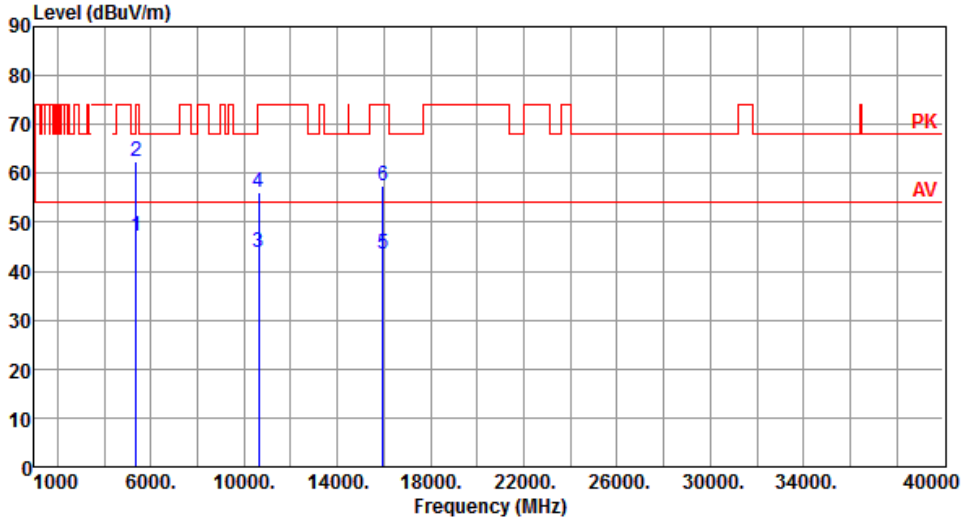
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	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	45.78	54.00	-8.22	40.38	5.40	Average	314	152
2	5350.00	58.75	74.00	-15.25	53.35	5.40	Peak	314	152
3	10640.00	43.70	54.00	-10.30	28.34	15.36	Average	100	40
4	10640.00	55.97	74.00	-18.03	40.61	15.36	Peak	100	40
5	15960.00	43.44	54.00	-10.56	28.53	14.91	Average	100	60
6	15960.00	57.52	74.00	-16.48	42.61	14.91	Peak	100	60

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

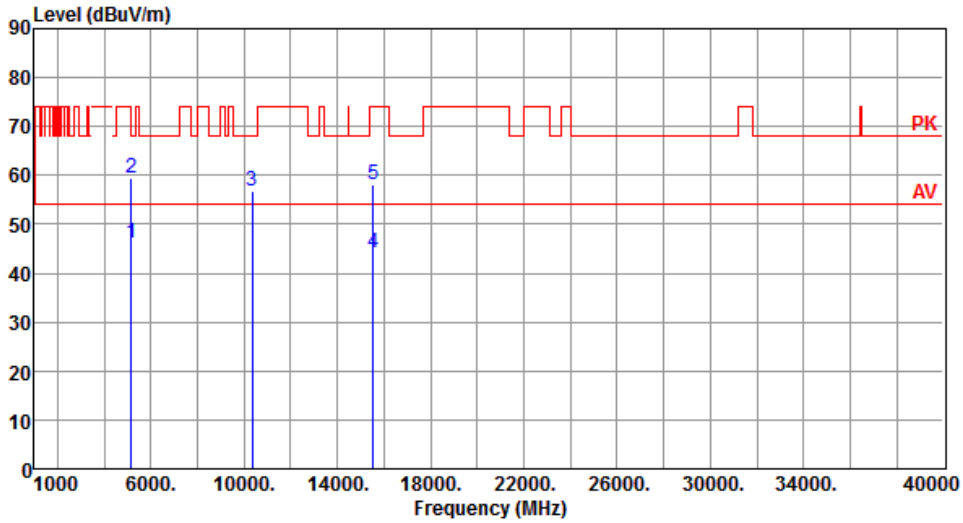


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	47.01	54.00	-6.99	41.61	5.40	Average	175	205
2	5350.00	62.31	74.00	-11.69	56.91	5.40	Peak	175	205
3	10640.00	43.67	54.00	-10.33	28.31	15.36	Average	100	60
4	10640.00	56.05	74.00	-17.95	40.69	15.36	Peak	100	60
5	15960.00	43.38	54.00	-10.62	28.47	14.91	Average	100	55
6	15960.00	57.44	74.00	-16.56	42.53	14.91	Peak	100	55

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

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

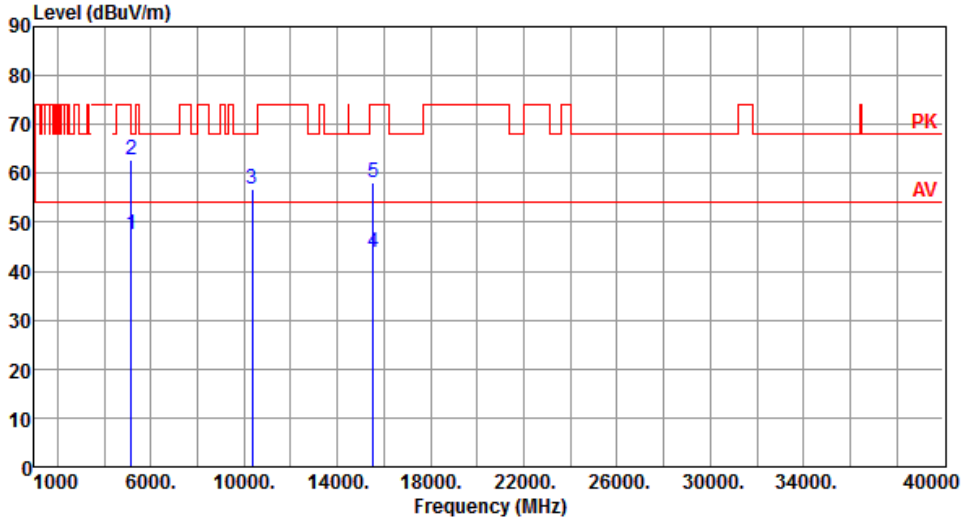
Modulation	HT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.24	54.00	-7.76	40.29	5.95	Average	311	156
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	311	156
3	10360.00	56.69	68.20	-11.51	41.59	15.10	Peak	100	60
4	15540.00	44.09	54.00	-9.91	28.44	15.65	Average	100	30
5	15540.00	58.01	74.00	-15.99	42.36	15.65	Peak	100	30

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

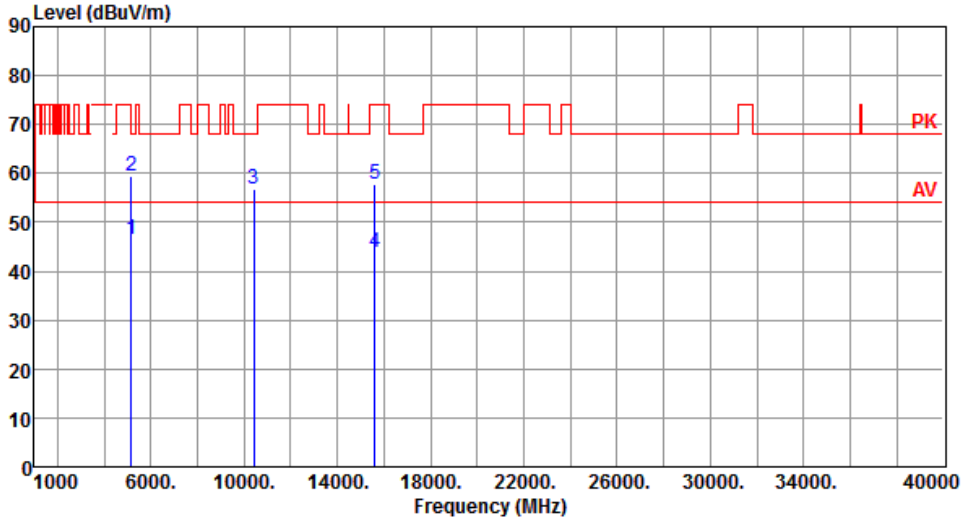
Modulation	HT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.51	54.00	-6.49	41.56	5.95	Average	190	200
2	5150.00	62.74	74.00	-11.26	56.79	5.95	Peak	190	200
3	10360.00	56.71	68.20	-11.49	41.61	15.10	Peak	100	85
4	15540.00	43.99	54.00	-10.01	28.34	15.65	Average	100	25
5	15540.00	58.21	74.00	-15.79	42.56	15.65	Peak	100	25

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

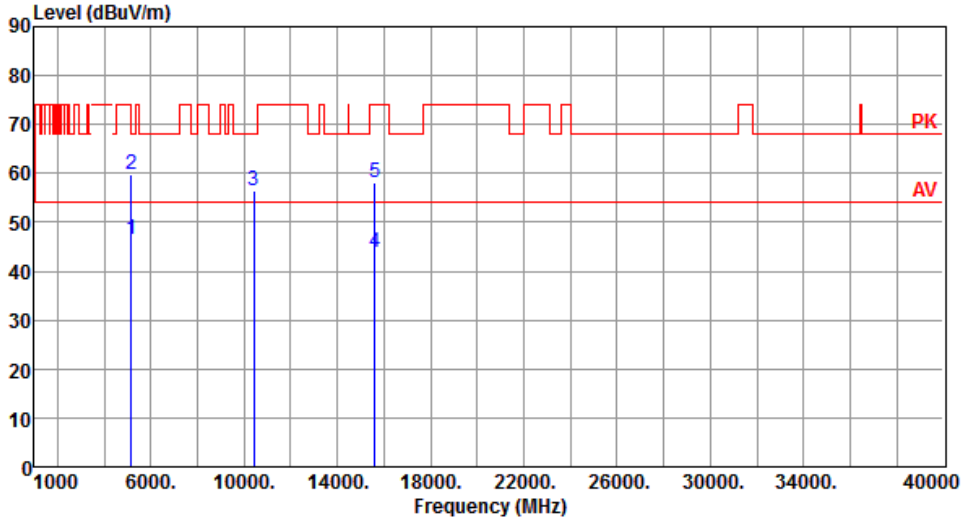
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.41	54.00	-7.59	40.46	5.95	Average	305	159
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	305	159
3	10400.00	56.88	68.20	-11.32	41.55	15.33	Peak	100	20
4	15600.00	43.86	54.00	-10.14	28.37	15.49	Average	100	60
5	15600.00	57.78	74.00	-16.22	42.29	15.49	Peak	100	60

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

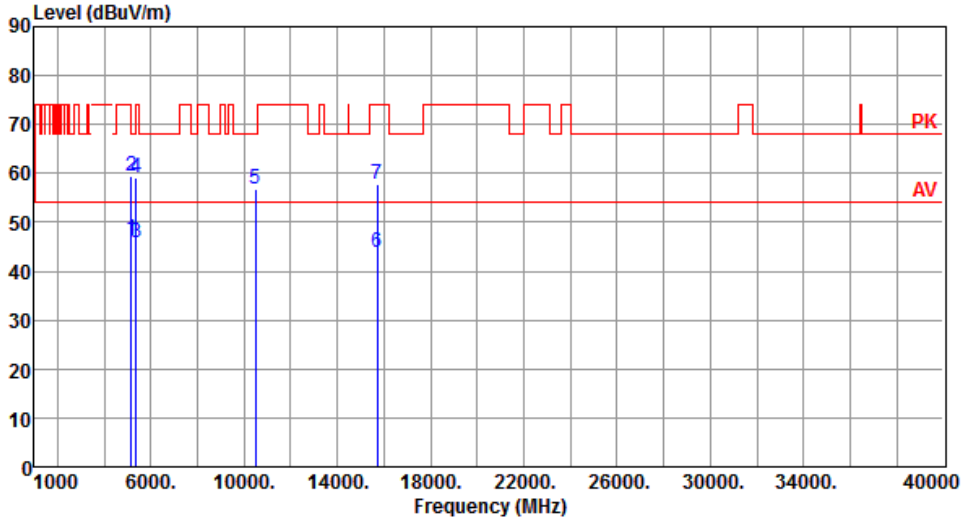
Modulation	HT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.56	54.00	-7.44	40.61	5.95	Average	179	211
2	5150.00	59.64	74.00	-14.36	53.69	5.95	Peak	179	211
3	10400.00	56.59	68.20	-11.61	41.26	15.33	Peak	100	30
4	15600.00	44.00	54.00	-10.00	28.51	15.49	Average	100	50
5	15600.00	58.10	74.00	-15.90	42.61	15.49	Peak	100	50

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

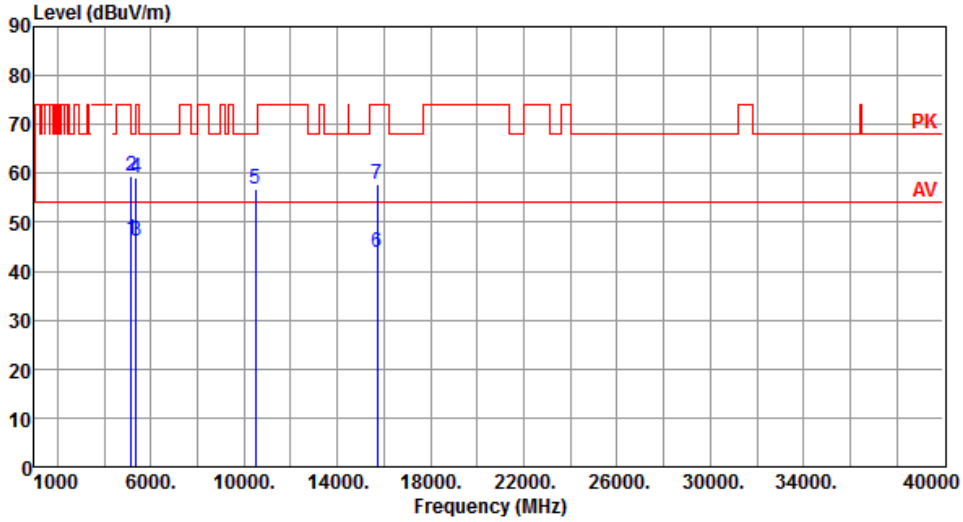
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.46	54.00	-7.54	40.51	5.95	Average	295	156
2	5150.00	59.56	74.00	-14.44	53.61	5.95	Peak	295	156
3	5350.00	45.71	54.00	-8.29	40.31	5.40	Average	295	156
4	5350.00	58.96	74.00	-15.04	53.56	5.40	Peak	295	156
5	10480.00	56.92	68.20	-11.28	41.61	15.31	Peak	100	65
6	15720.00	43.84	54.00	-10.16	28.61	15.23	Average	100	100
7	15720.00	57.82	74.00	-16.18	42.59	15.23	Peak	100	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).

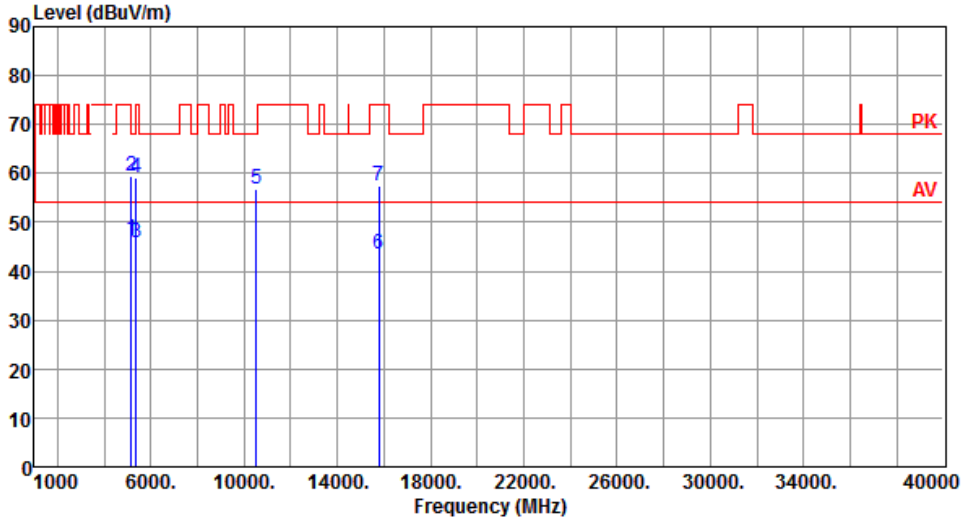
Modulation	HT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.49	54.00	-7.51	40.54	5.95	Average	182	195
2	5150.00	59.54	74.00	-14.46	53.59	5.95	Peak	182	195
3	5350.00	46.01	54.00	-7.99	40.61	5.40	Average	182	195
4	5350.00	59.04	74.00	-14.96	53.64	5.40	Peak	182	195
5	10480.00	56.88	68.20	-11.32	41.57	15.31	Peak	100	50
6	15720.00	43.68	54.00	-10.32	28.45	15.23	Average	100	60
7	15720.00	57.84	74.00	-16.16	42.61	15.23	Peak	100	60

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

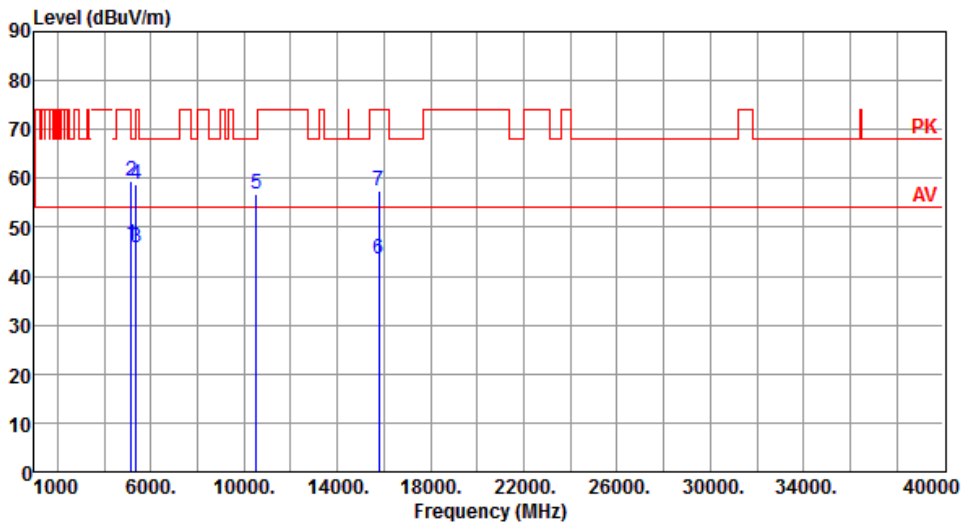
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.56	54.00	-7.44	40.61	5.95	Average	313	155
2	5150.00	59.41	74.00	-14.59	53.46	5.95	Peak	313	155
3	5350.00	45.85	54.00	-8.15	40.45	5.40	Average	313	155
4	5350.00	59.01	74.00	-14.99	53.61	5.40	Peak	313	155
5	10520.00	56.94	68.20	-11.26	41.61	15.33	Peak	100	50
6	15780.00	43.46	54.00	-10.54	28.51	14.95	Average	100	30
7	15780.00	57.51	74.00	-16.49	42.56	14.95	Peak	100	30

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

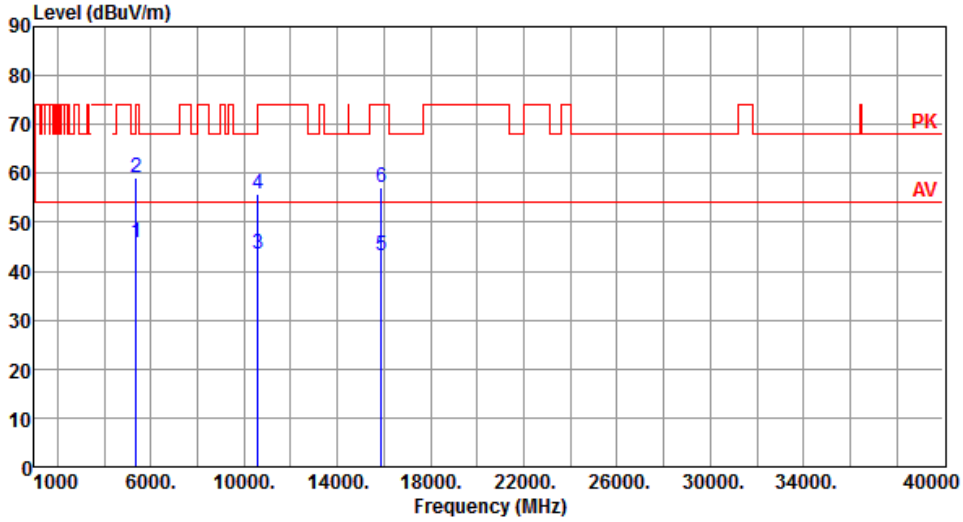
Modulation	HT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.48	54.00	-7.52	40.53	5.95	Average	182	205
2	5150.00	59.51	74.00	-14.49	53.56	5.95	Peak	182	205
3	5350.00	45.94	54.00	-8.06	40.54	5.40	Average	182	205
4	5350.00	58.89	74.00	-15.11	53.49	5.40	Peak	182	205
5	10520.00	56.93	68.20	-11.27	41.60	15.33	Peak	100	60
6	15780.00	43.44	54.00	-10.56	28.49	14.95	Average	100	70
7	15780.00	57.59	74.00	-16.41	42.64	14.95	Peak	100	70

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

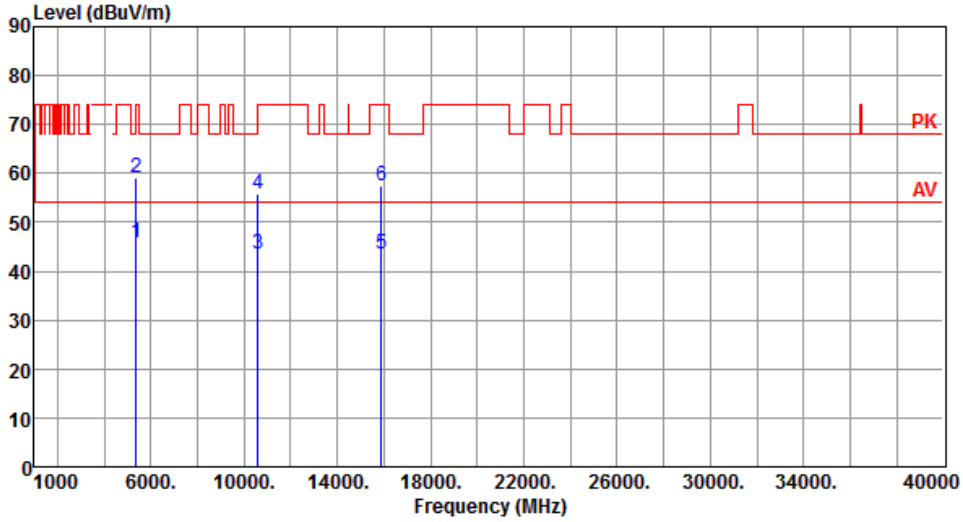
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.71	54.00	-8.29	40.31	5.40	Average	316	162
2	5350.00	59.04	74.00	-14.96	53.64	5.40	Peak	316	162
3	10600.00	43.52	54.00	-10.48	28.11	15.41	Average	100	50
4	10600.00	55.91	74.00	-18.09	40.50	15.41	Peak	100	50
5	15900.00	43.23	54.00	-10.77	28.34	14.89	Average	100	90
6	15900.00	57.20	74.00	-16.80	42.31	14.89	Peak	100	90

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

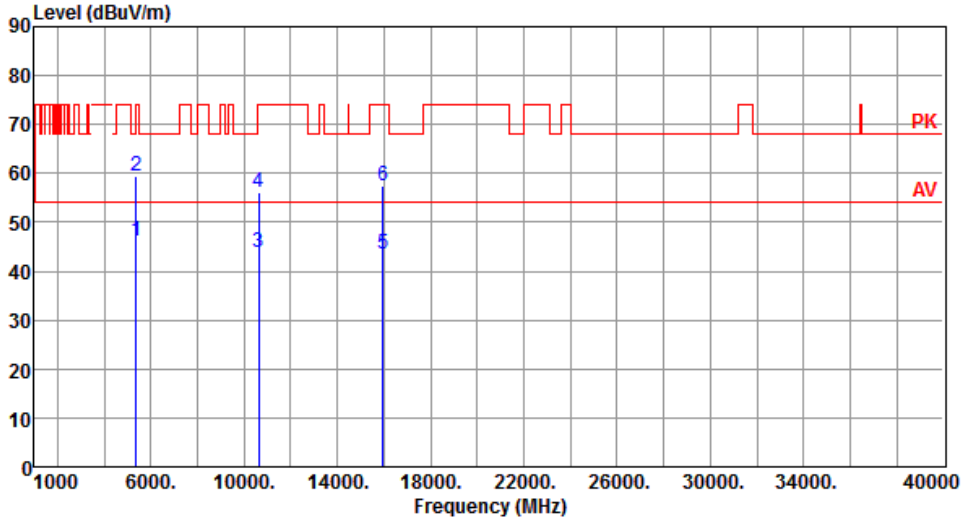
Modulation	HT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	45.91	54.00	-8.09	40.51	5.40	Average	185	196
2	5350.00	59.06	74.00	-14.94	53.66	5.40	Peak	185	196
3	10600.00	43.54	54.00	-10.46	28.13	15.41	Average	100	30
4	10600.00	55.93	74.00	-18.07	40.52	15.41	Peak	100	30
5	15900.00	43.46	54.00	-10.54	28.57	14.89	Average	100	50
6	15900.00	57.49	74.00	-16.51	42.60	14.89	Peak	100	50

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

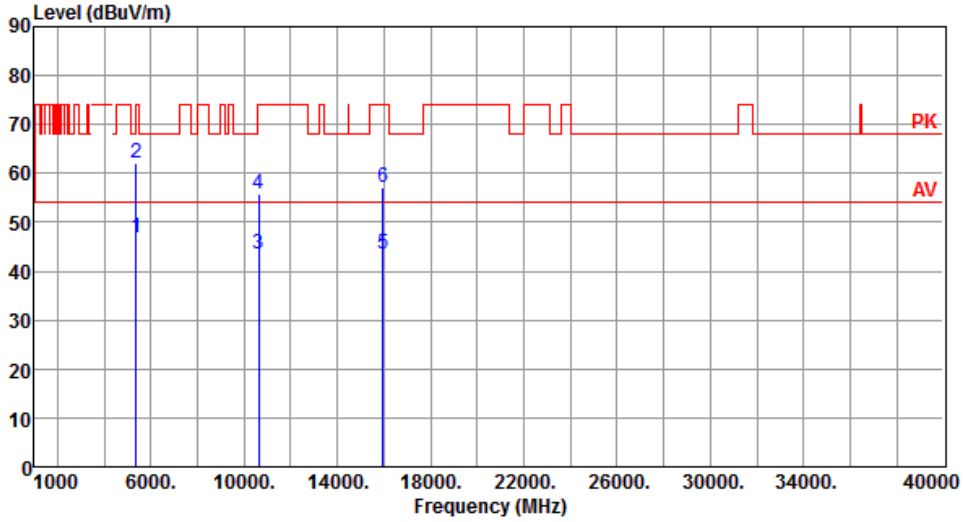
Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.08	54.00	-7.92	40.68	5.40	Average	315	150
2	5350.00	59.28	74.00	-14.72	53.88	5.40	Peak	315	150
3	10640.00	43.73	54.00	-10.27	28.37	15.36	Average	100	10
4	10640.00	56.02	74.00	-17.98	40.66	15.36	Peak	100	10
5	15960.00	43.37	54.00	-10.63	28.46	14.91	Average	100	40
6	15960.00	57.44	74.00	-16.56	42.53	14.91	Peak	100	40

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

Modulation	HT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	46.95	54.00	-7.05	41.55	5.40	Average	179	215
2	5350.00	62.21	74.00	-11.79	56.81	5.40	Peak	179	215
3	10640.00	43.60	54.00	-10.40	28.24	15.36	Average	100	20
4	10640.00	55.75	74.00	-18.25	40.39	15.36	Peak	100	20
5	15960.00	43.36	54.00	-10.64	28.45	14.91	Average	100	55
6	15960.00	57.25	74.00	-16.75	42.34	14.91	Peak	100	55

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

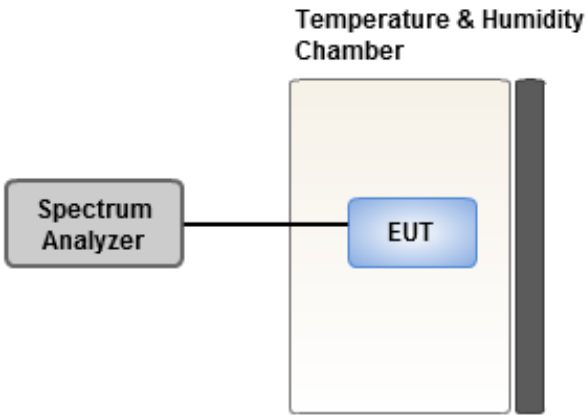
3.6.1 Limit of Frequency Stability

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 20 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 normal and extreme condition for temperature and voltage.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-2.85	-2.85	-2.01	-2.29
T20°CVmin	-3.31	-3.01	-3.10	-3.04
T70°CVnom	-2.94	-3.35	-2.80	-2.51
T60°CVnom	-0.15	-0.25	0.25	-0.10
T50CVnom	-1.60	-1.92	-1.29	-1.53
T40°CVnom	-0.26	-0.29	0.42	-0.18
T30°CVnom	-1.63	-1.95	-1.30	-1.55
T20°CVnom	-2.97	-3.31	-2.58	-2.46
T10°CVnom	-0.30	-0.33	-0.67	-0.40
T0°CVnom	2.39	2.13	2.74	2.98
T-10°CVnom	4.65	4.47	4.45	4.64
T-20°CVnom	4.68	4.67	4.50	5.01
T-30°CVnom	4.60	4.67	4.37	5.03
Vnom [Vdc]: 3.3		Vmax [Vdc]: 3.63		Vmin [Vdc]: 2.97
Tnom [°C]: 20		Tmax [°C]: 70		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-2.80	-2.75	-2.42	-2.66
T20°CVmin	-3.36	-3.82	-3.61	-2.97
T70°CVnom	-2.83	-3.19	-2.40	-2.78
T60°CVnom	0.19	0.21	0.71	0.56
T50CVnom	0.77	0.61	1.39	1.23
T40°CVnom	-0.72	-0.31	0.01	-0.25
T30°CVnom	-1.72	-1.55	-1.48	-1.44
T20°CVnom	-3.09	-2.90	-2.75	-2.92
T10°CVnom	-0.62	-0.58	-0.20	-0.34
T0°CVnom	1.89	1.82	1.96	1.88
T-10°CVnom	4.47	4.41	5.23	4.84
T-20°CVnom	4.44	4.49	5.30	5.27
T-30°CVnom	4.38	5.14	5.04	4.59
Vnom [Vdc]: 3.3		Vmax [Vdc]: 3.63		Vmin [Vdc]: 2.97
Tnom [°C]: 20		Tmax [°C]: 70		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.

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

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